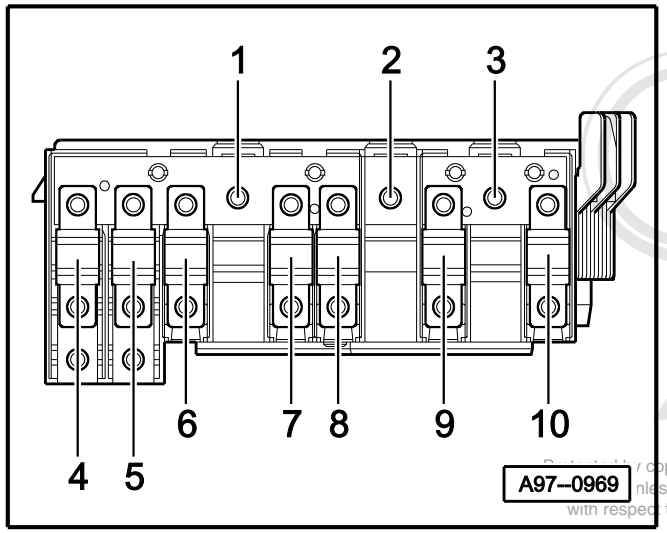
Basic equipment with battery in engine compartment

from model year 2004

Main fuse holder, electronics box



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- On electronics box, in engine compartment, front left

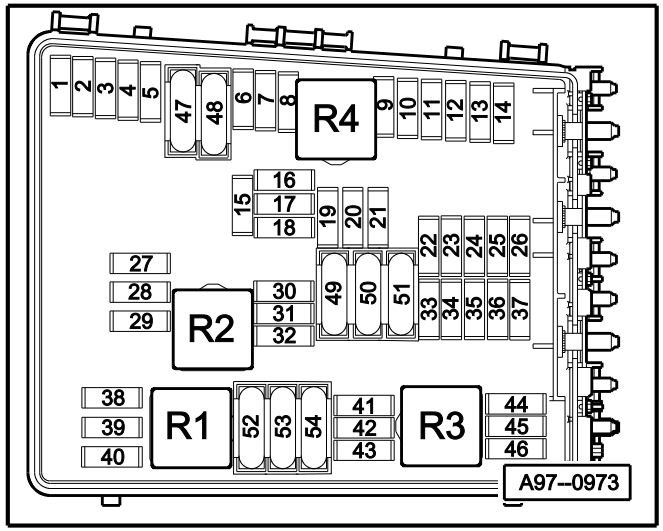
Main supply connection
2 - Screw connection M (terminal 30)

Fuse locations
4 - Fuse 1 on fuse holder/battery (SA1)
5 - Fuse 2 on fuse holder/battery (SA2)
6 - Fuse 3 on fuse holder/battery (SA3)
7 - Fuse 4 on fuse holder/battery (SA4)
8 - Fuse 5 on fuse holder/battery (SA5)
9 - Fuse 6 on fuse holder/battery (SA6)

Note:

- *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



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- In engine compartment, front left

Fuse colours

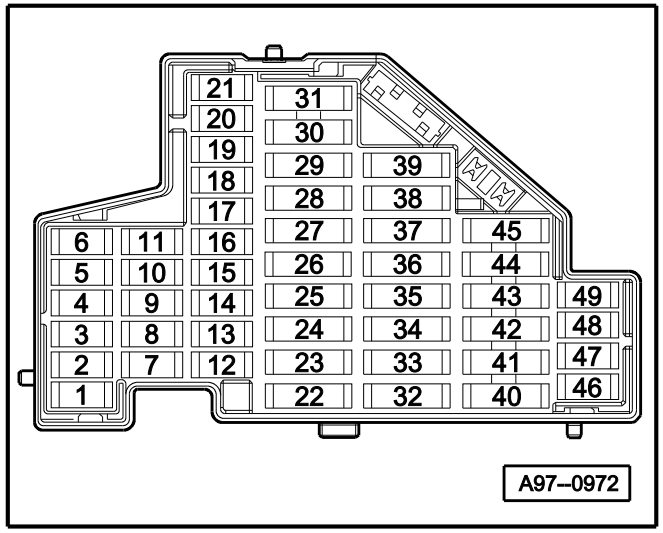
50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329
R2 - Terminal 50 voltage supply relay - J682
R3 - Fuel pump relay - J17
R4 - Terminal 30 voltage supply relay - J317
R4 - Motronic current supply relay - J271
R4 - Current supply relay for Simos control unit - J363

Fuse holder



- Driver side dash panel

Fuse colours

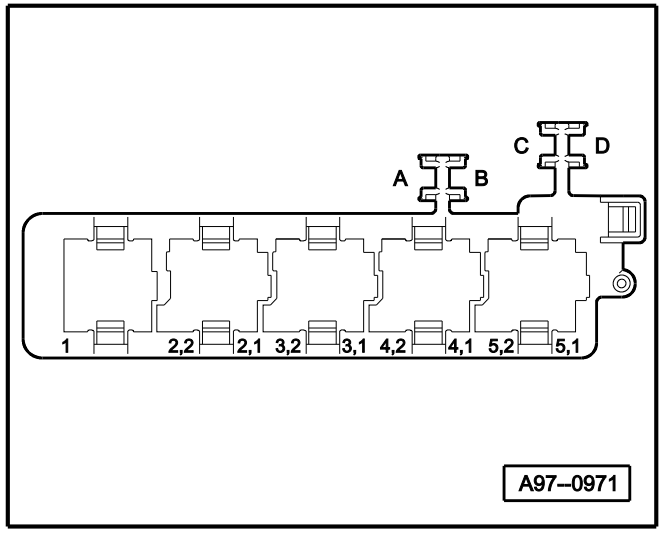
40 A - orange
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

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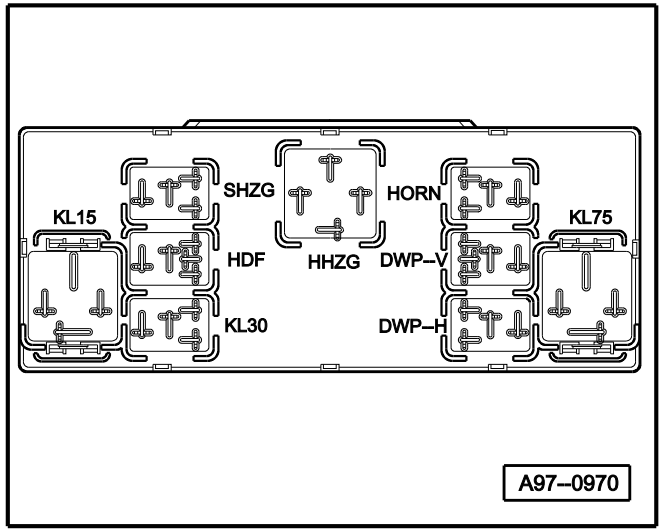
5-point relay carrier



♦ Above the onboard power supply control unit, dash panel, driver side, bottom left

Position of relays
1 - Headlight washer system relay - J39
2.1 - Fuel pump relay - J17
2.1 - Electric fuel pump 2 relay - J49

Onboard supply control unit - J519



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♦ Dash panel, driver side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay 2 - J681

KL30 - Terminal 30 voltage supply relay 2 - J689

HRW - Heated rear window relay - J9

HORN - Horn relay - J413

DWPF - Double washer pump relay 2 - J730

DWPR - Double washer pump relay 1 - J729

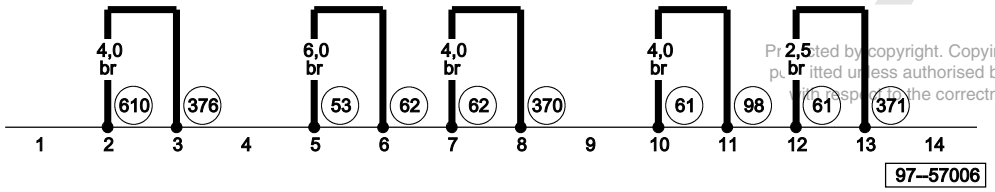
KL75 - X-contact relief relay - J59

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Earth points, earth connections

53	Earth point, on right in rear lid
61	Earth point, left C-pillar
62	Earth point, right C-pillar
98	Earth connection, in rear lid wiring harness
376	Earth connection 11, in main wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
610	Earth point (audio), front under centre console



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

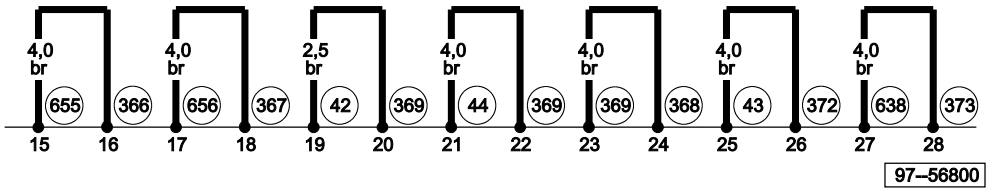
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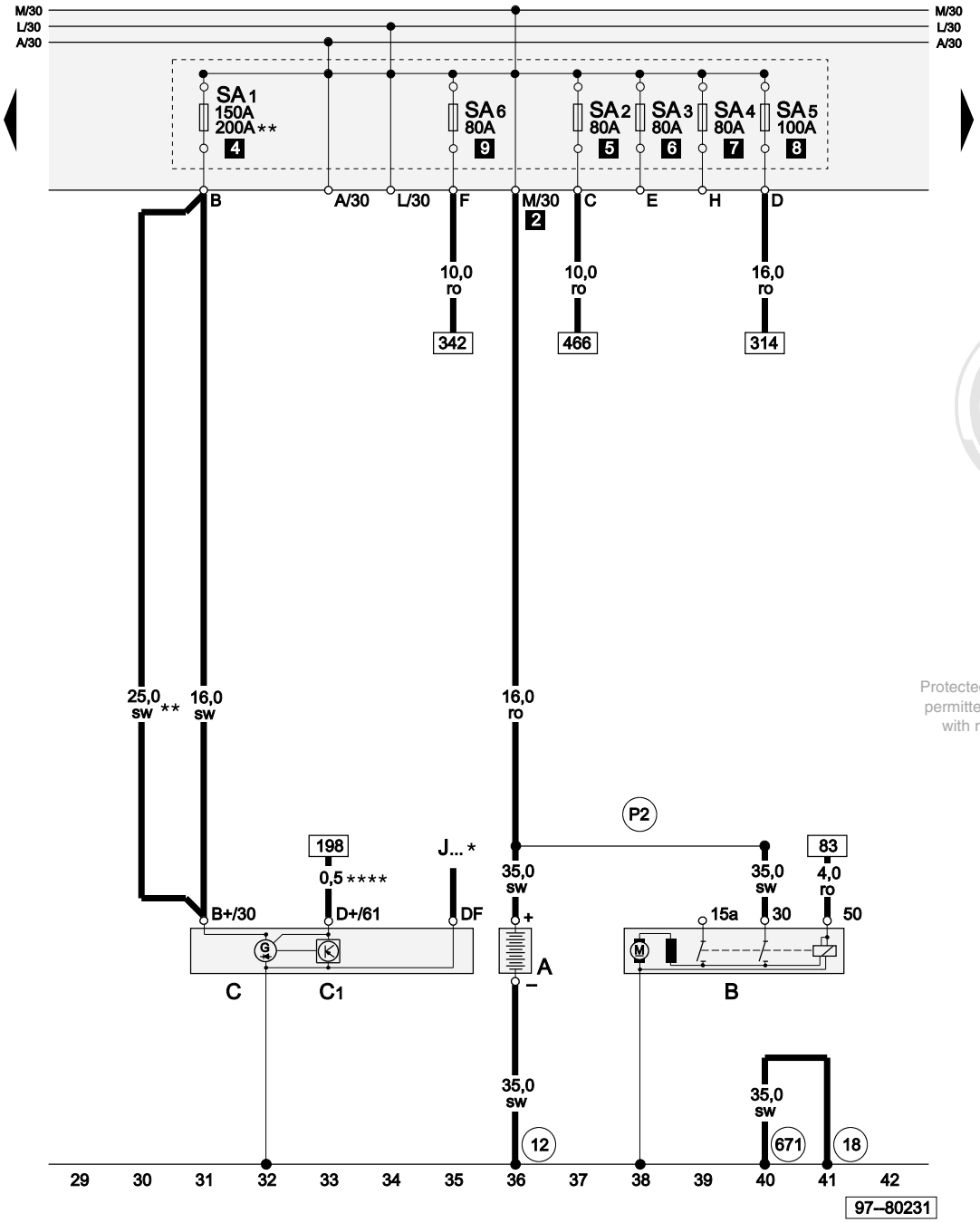
Earth points, earth connections

- 42 Earth point, next to steering column
- 43 Earth point, lower part of right A-pillar
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 367 Earth connection 2, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 373 Earth connection 8, in main wiring harness
- 638 Earth point, right A-pillar
- 655 Earth point, on left headlight
- 656 Earth point, on right headlight

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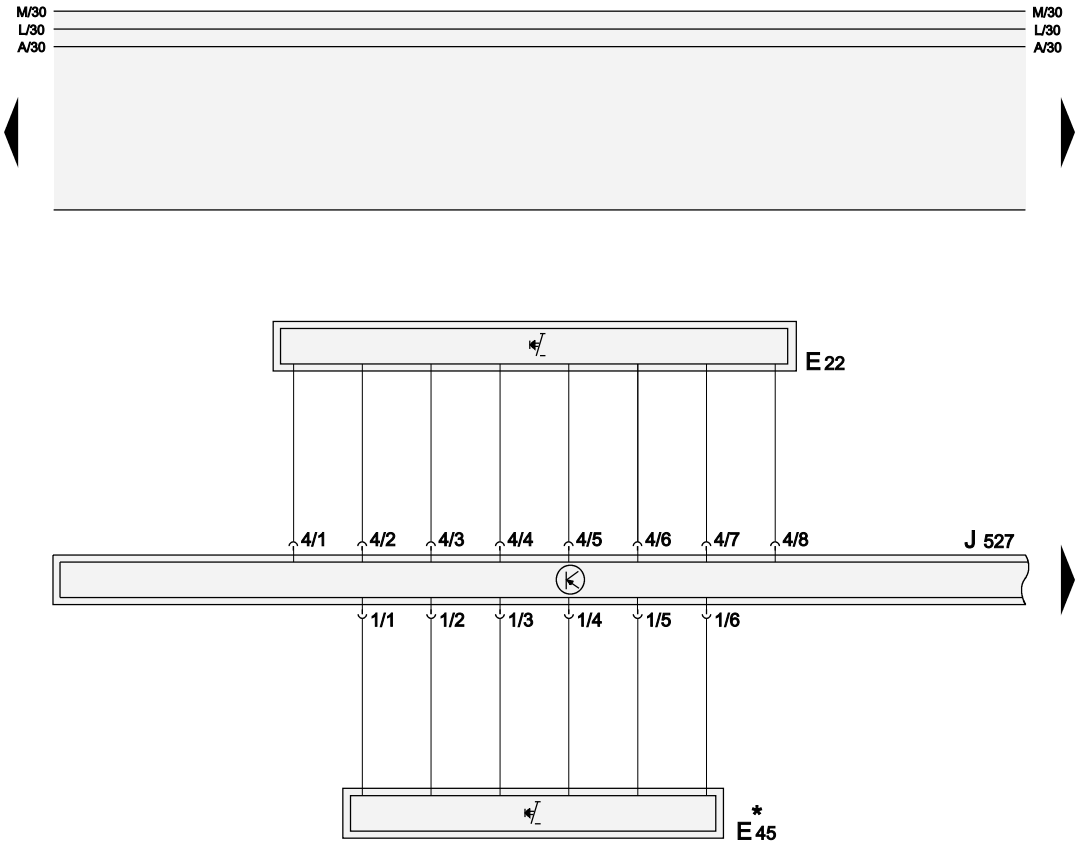


Starter, battery, alternator

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J...	Engine control units
SA1	Fuse 1 on fuse holder/battery
SA2	Fuse 2 on fuse holder/battery
SA3	Fuse 3 on fuse holder/battery
SA4	Fuse 4 on fuse holder/battery
SA5	Fuse 5 on fuse holder/battery
SA6	Fuse 6 on fuse holder/battery
12	Earth point, on left in engine compartment
18	Earth point, on engine block
671	Earth point 1, on front of left longitudinal member
P2	Positive connection (30), in battery wiring harness
*	⇒ applicable engine Current Flow Diagram
**	for models with alternator (140A) only
****	⇒ applicable engine Current Flow Diagram

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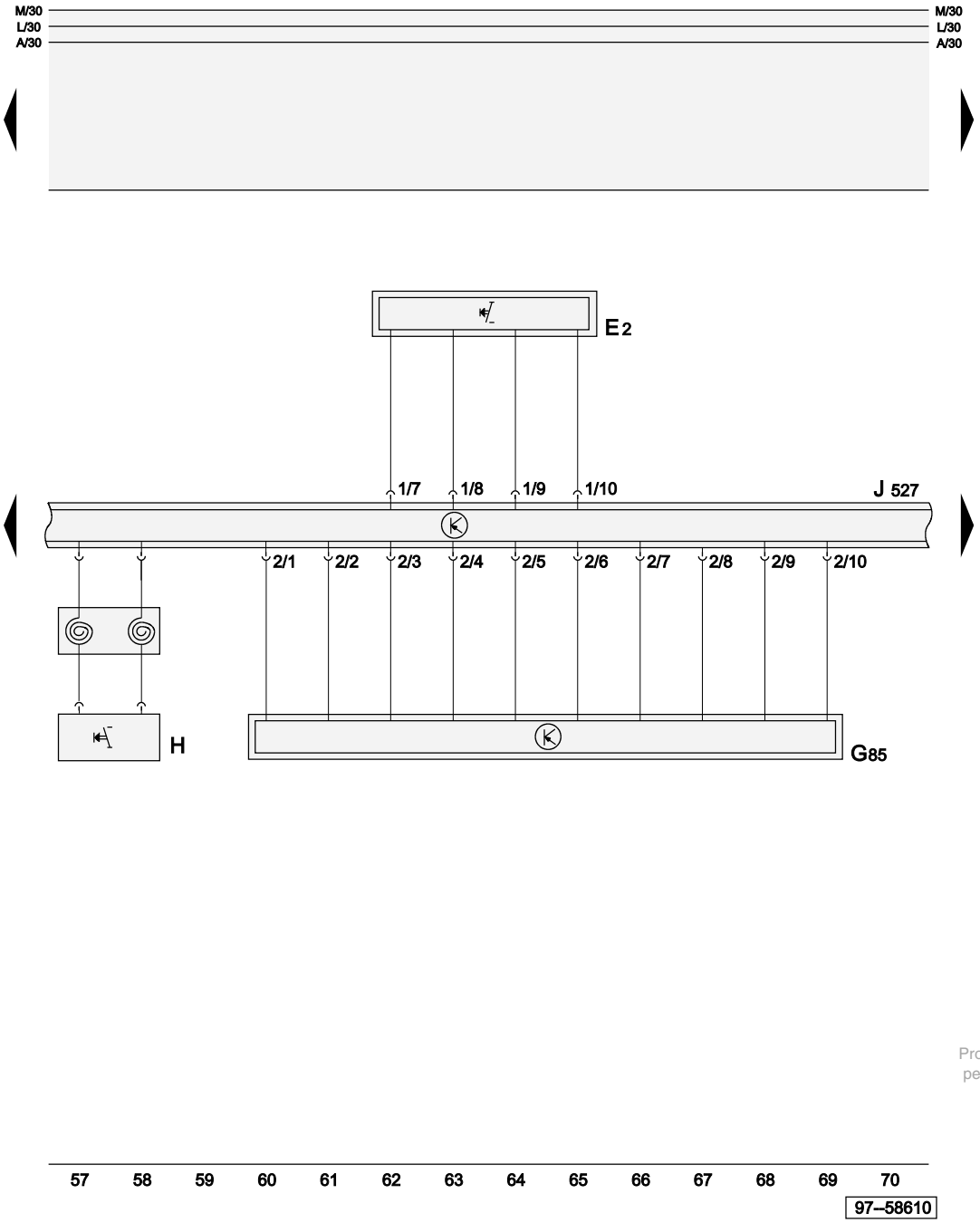


Intermittent wiper switch, cruise control system switch

E22	Intermittent wiper switch
E45	Cruise control system switch
J527	Steering column electronics control unit
*	for models with cruise control system only

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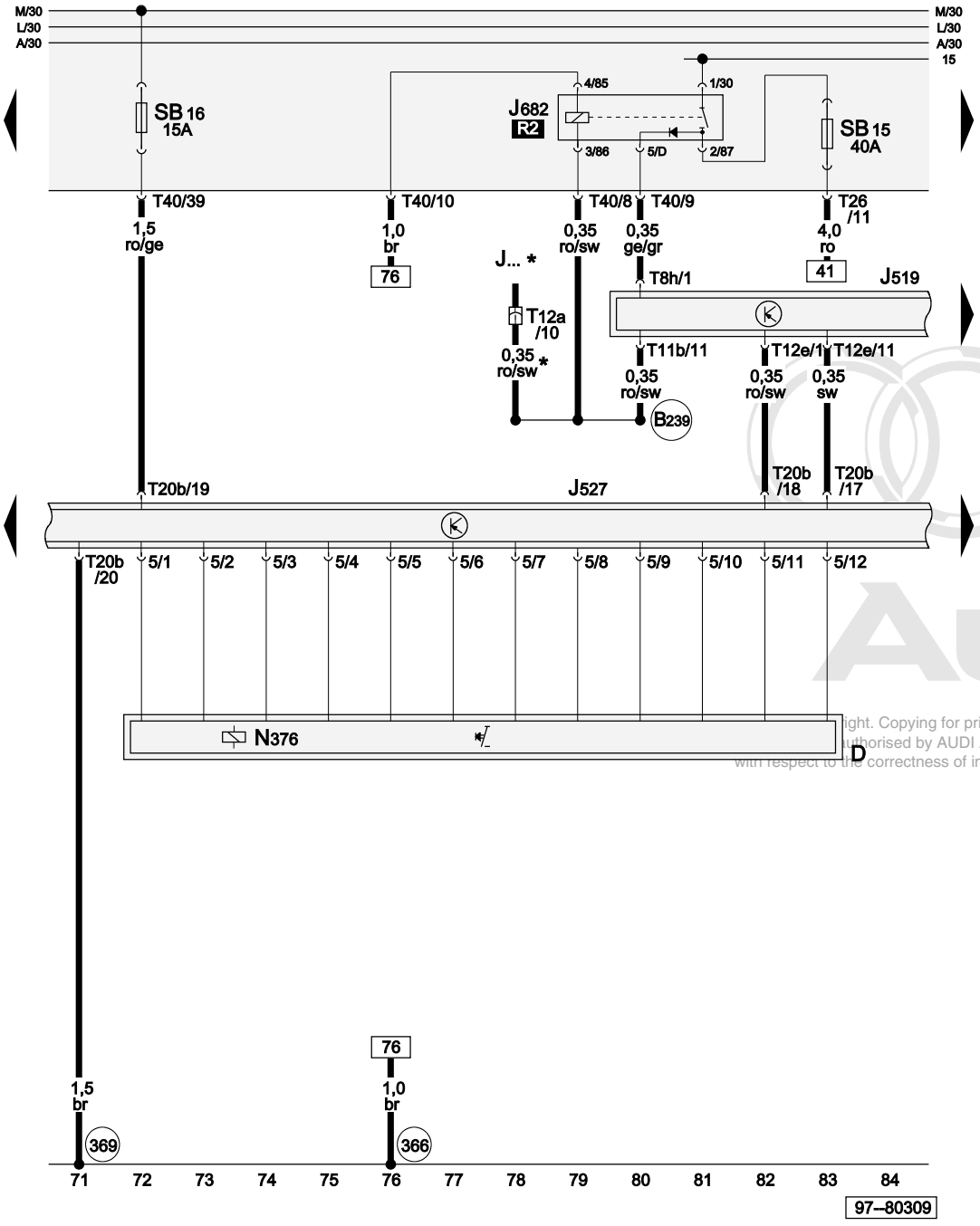


Turn signal switch, steering angle sender, horn plate

E2	Turn signal switch
G85	Steering angle sender
H	Horn plate
J527	Steering column electronics control unit

ws	=	white
sw	=	black
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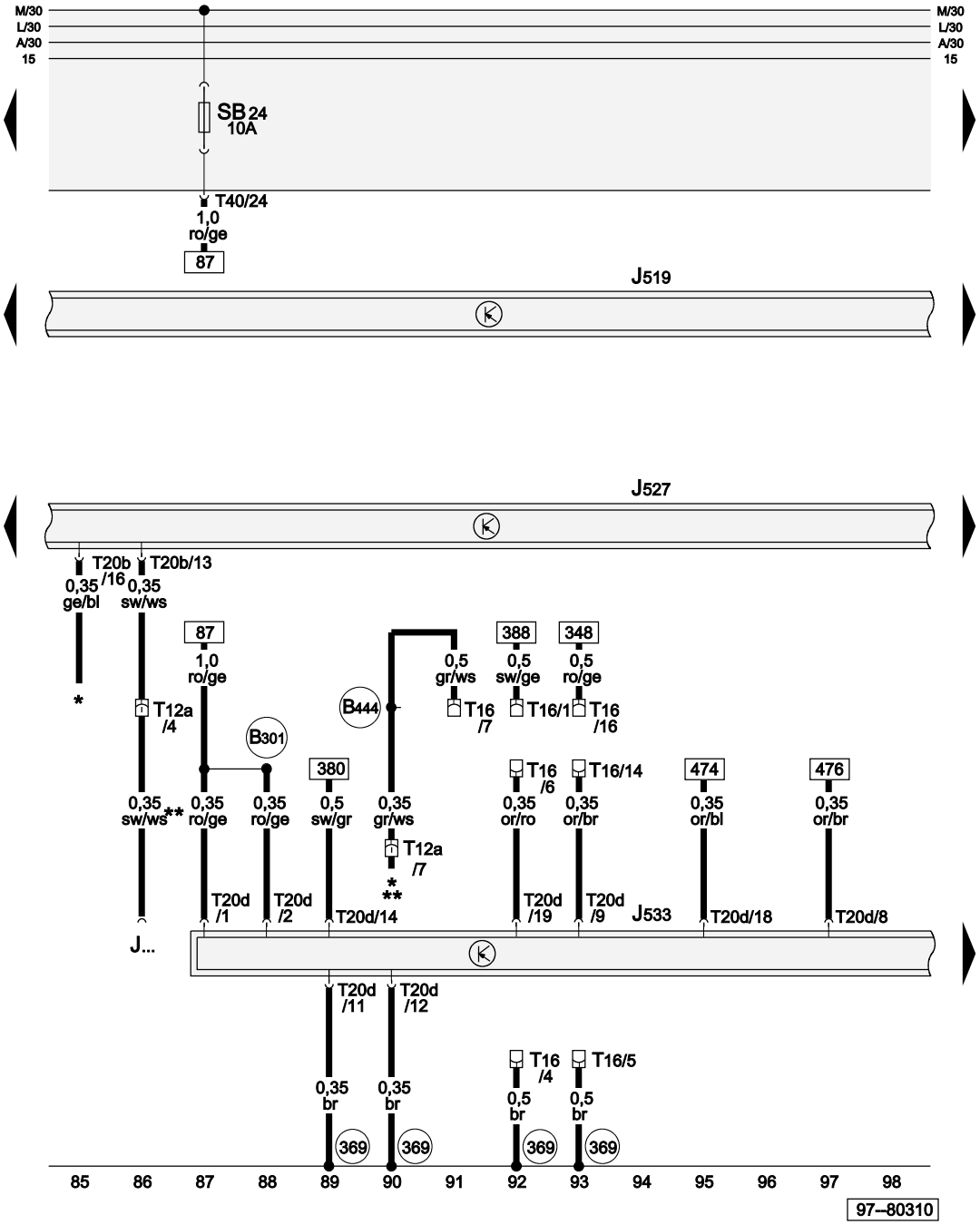


Ignition/starter switch, terminal 50 voltage supply relay

D	Ignition/starter switch
J...	Engine control units
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
N376	Ignition key withdrawal lock solenoid
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12a	12-pin connector, blue, in plenum chamber
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	⇒ applicable engine Current Flow Diagram

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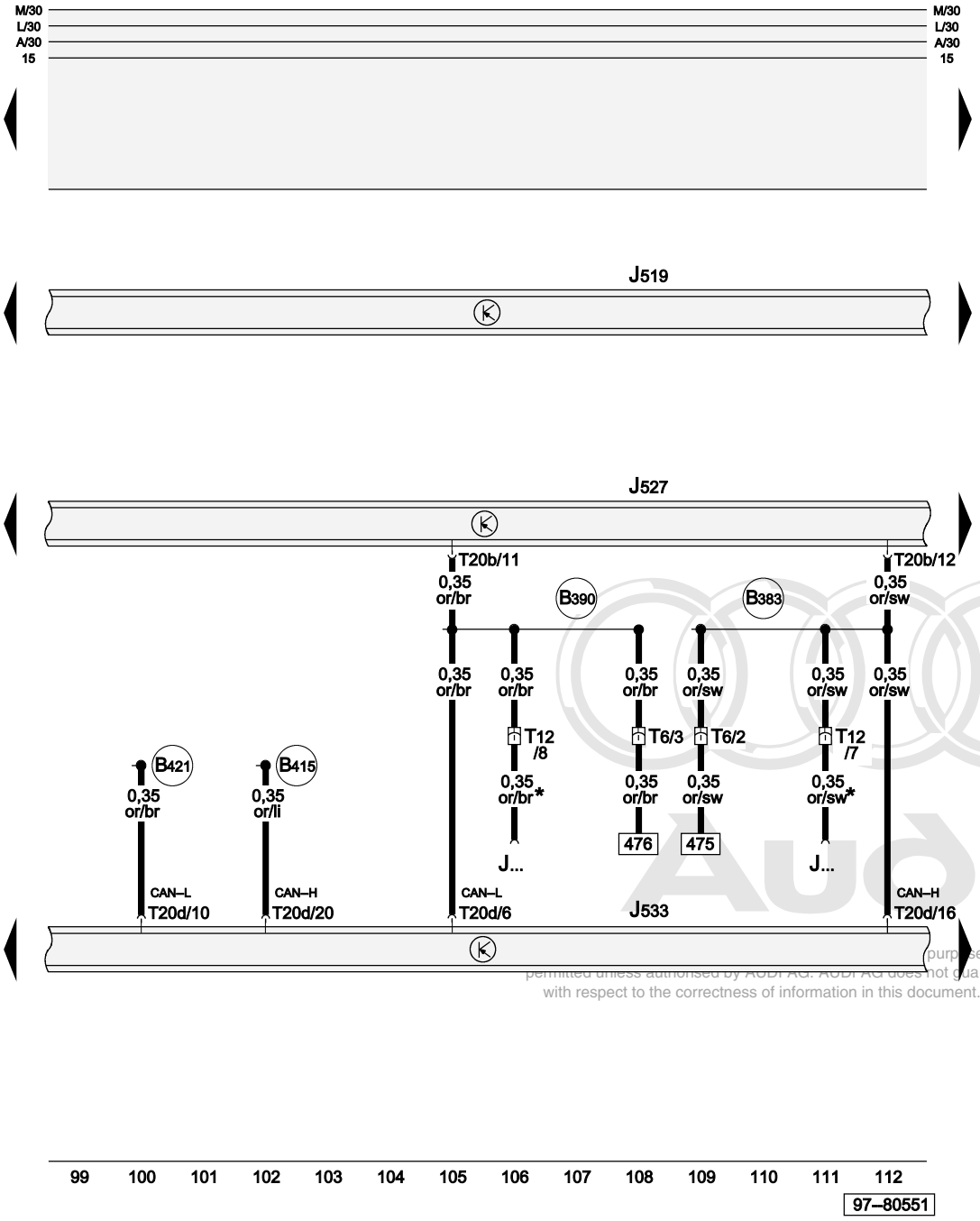


Diagnostic connector, data bus diagnostic interface

J...	Engine control units
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB24	Fuse 24 on fuse holder
T12a	12-pin connector, blue, in plenum chamber
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection -5- (30), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	⇒ applicable Current Flow Diagram: automatic gearbox
**	⇒ applicable engine Current Flow Diagram

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sw	=	black
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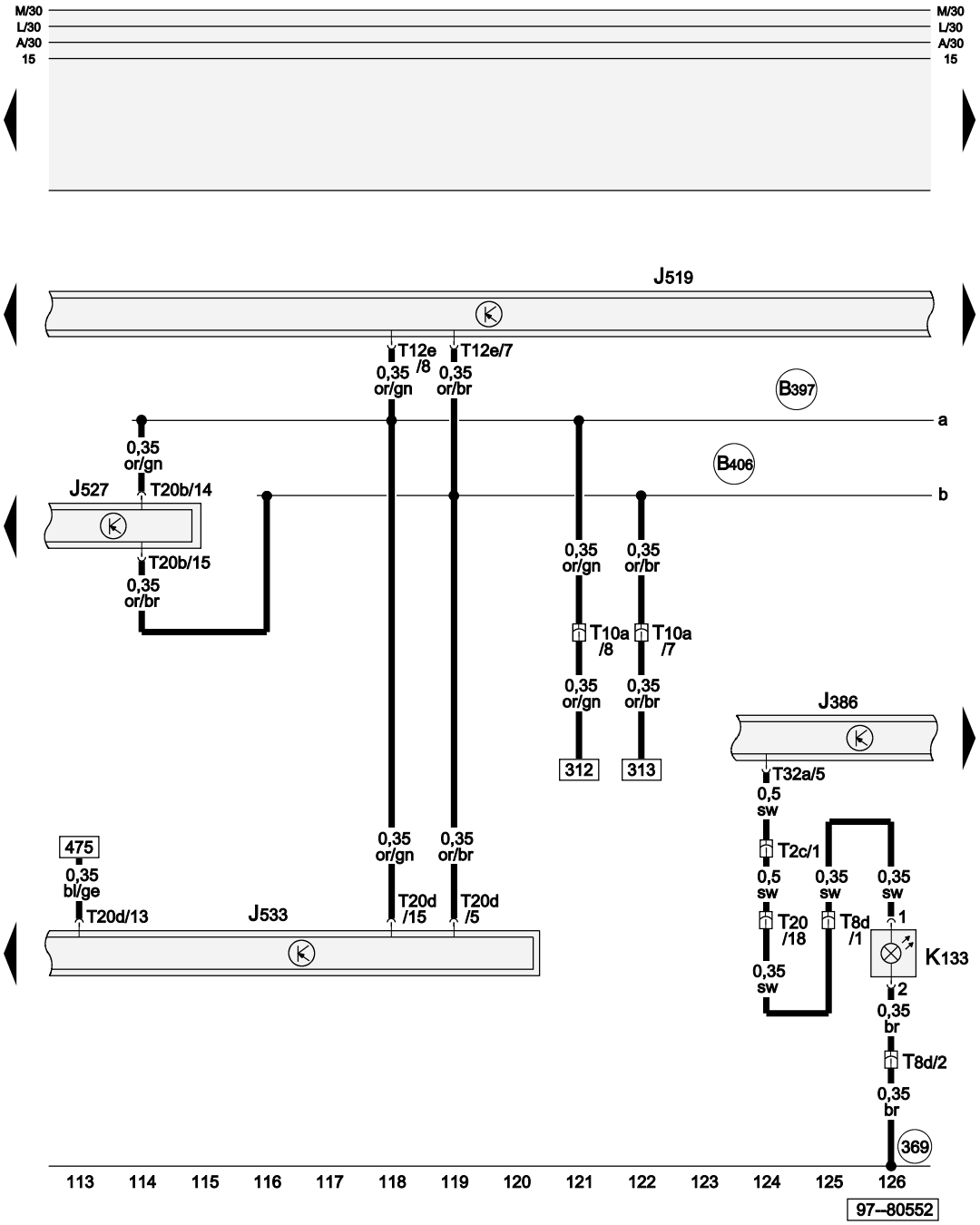


Data bus diagnostic interface, drive train CAN bus, infotainment CAN bus

J...	Engine control units
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T6	6-pin connector, black, near longitudinal member, front left
T12	12-pin connector, green, in plenum chamber
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	⇒ applicable engine Current Flow Diagram

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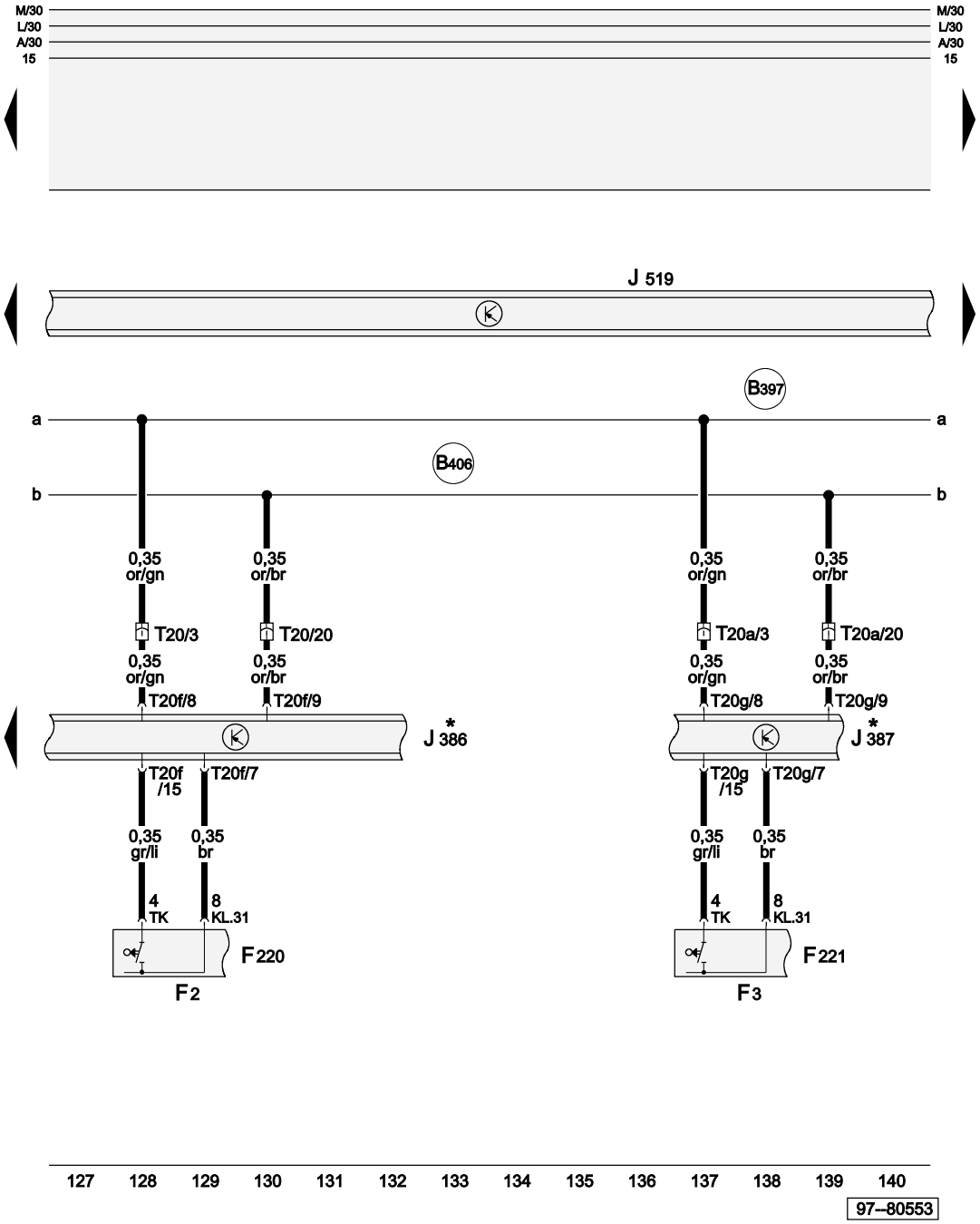


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Data bus diagnostic interface, convenience CAN bus

J386	Driver door control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K133	Central locking deadlock function warning lamp
T2c	2-pin connector, black, behind door trim driver door
T8d	8-pin connector, black, behind centre console
T10a	10-pin connector, black, behind the glove compartment
T12e	12-pin connector, black (connector G)
T20	20-pin connector, black, door, A pillar, left
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32a	32-pin connector, grey (connector C)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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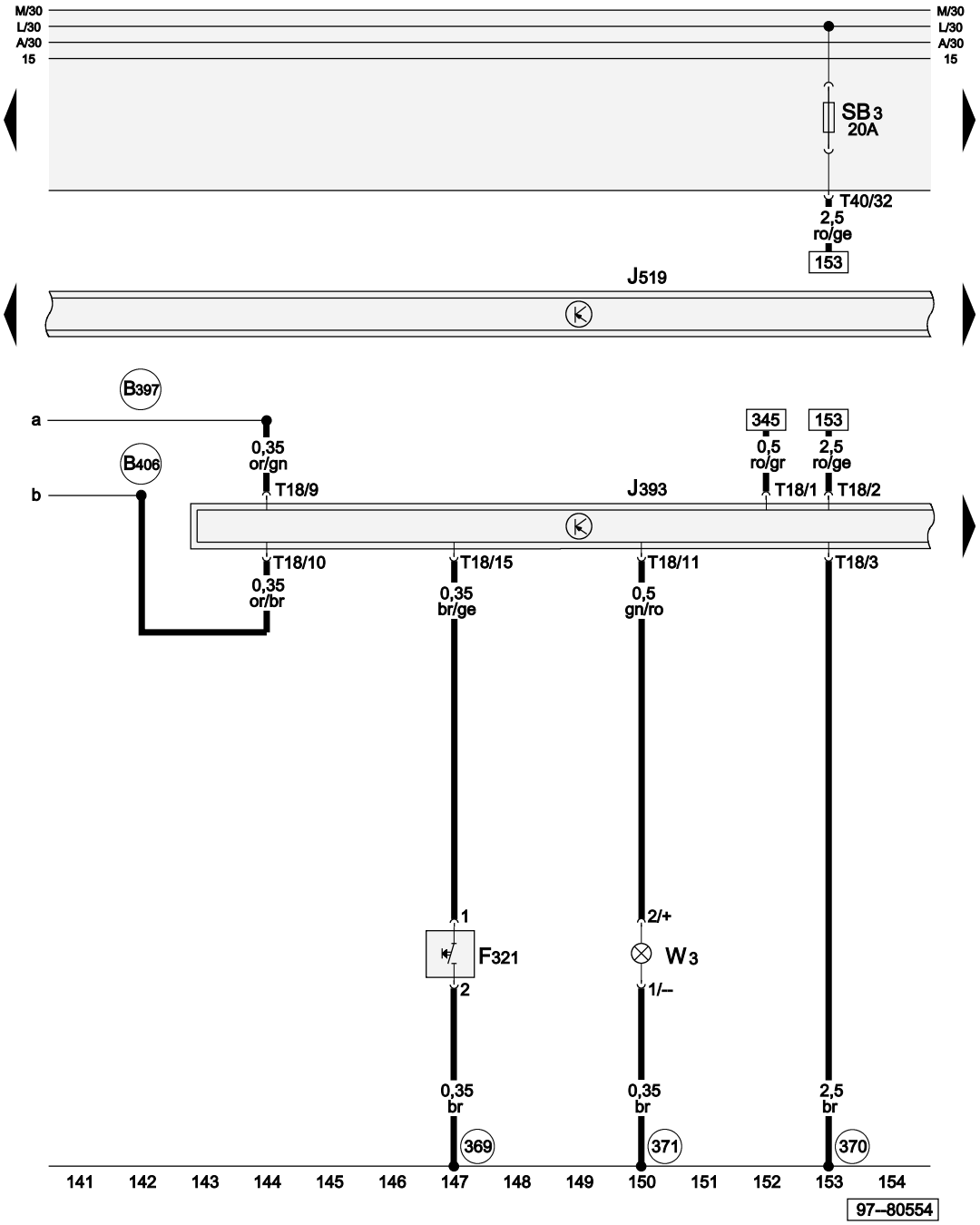


Convenience CAN bus, driver door contact switch, front passenger door contact switch

F2	Driver door contact switch
F3	Front passenger door contact switch
F220	Driver side central locking lock unit
F221	Front passenger side central locking lock unit
J386	Driver door control unit
J387	Front passenger door control unit
J519	Onboard supply control unit
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Voltage supply, ⇒ applicable Current Flow Diagram: convenience system

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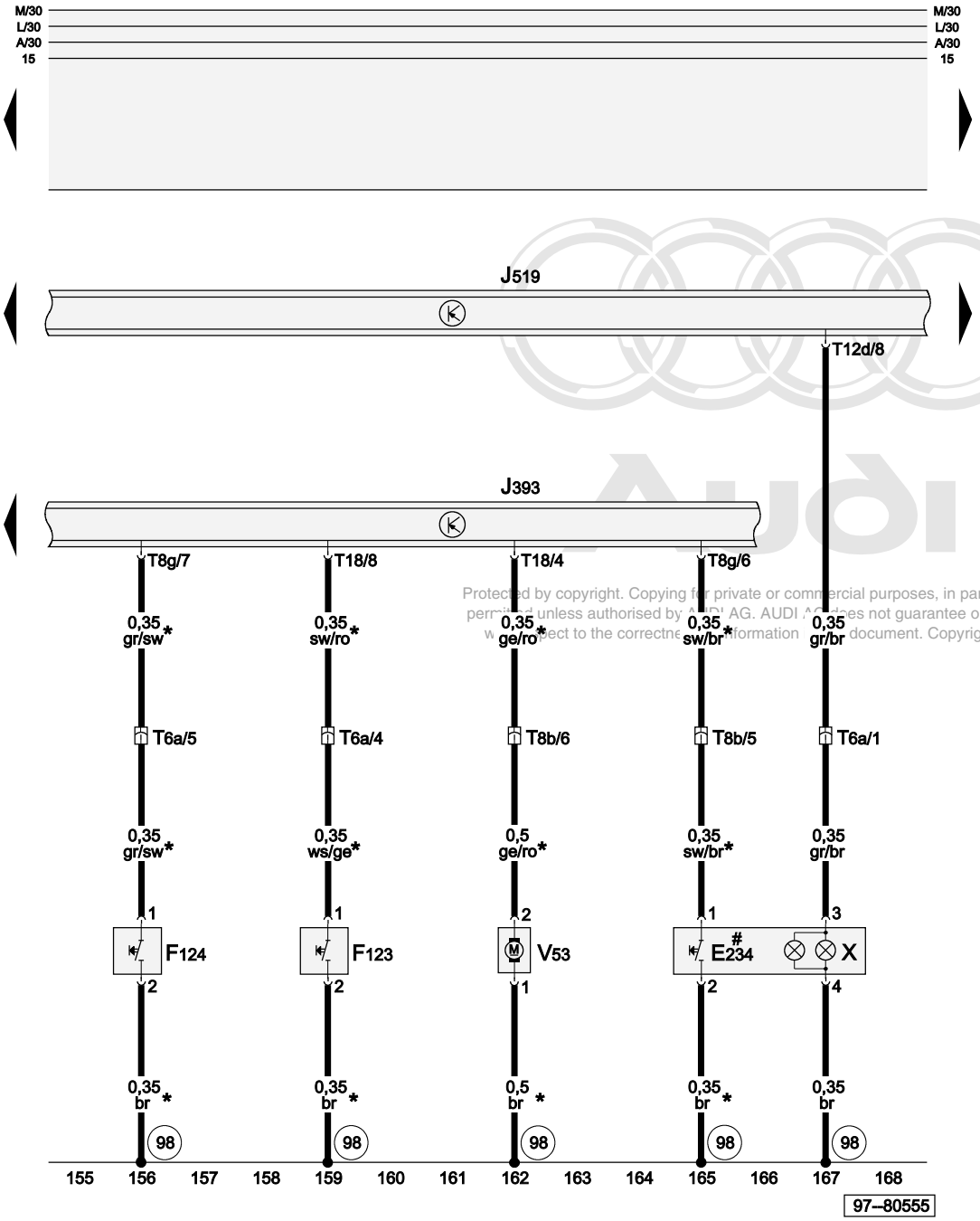


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Parking brake contact switch, luggage compartment light

F321	Parking brake contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
SB3	Fuse 3 on fuse holder
T18	18-pin connector, brown (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
W3	Luggage compartment light
369	Earth connection 4, in main wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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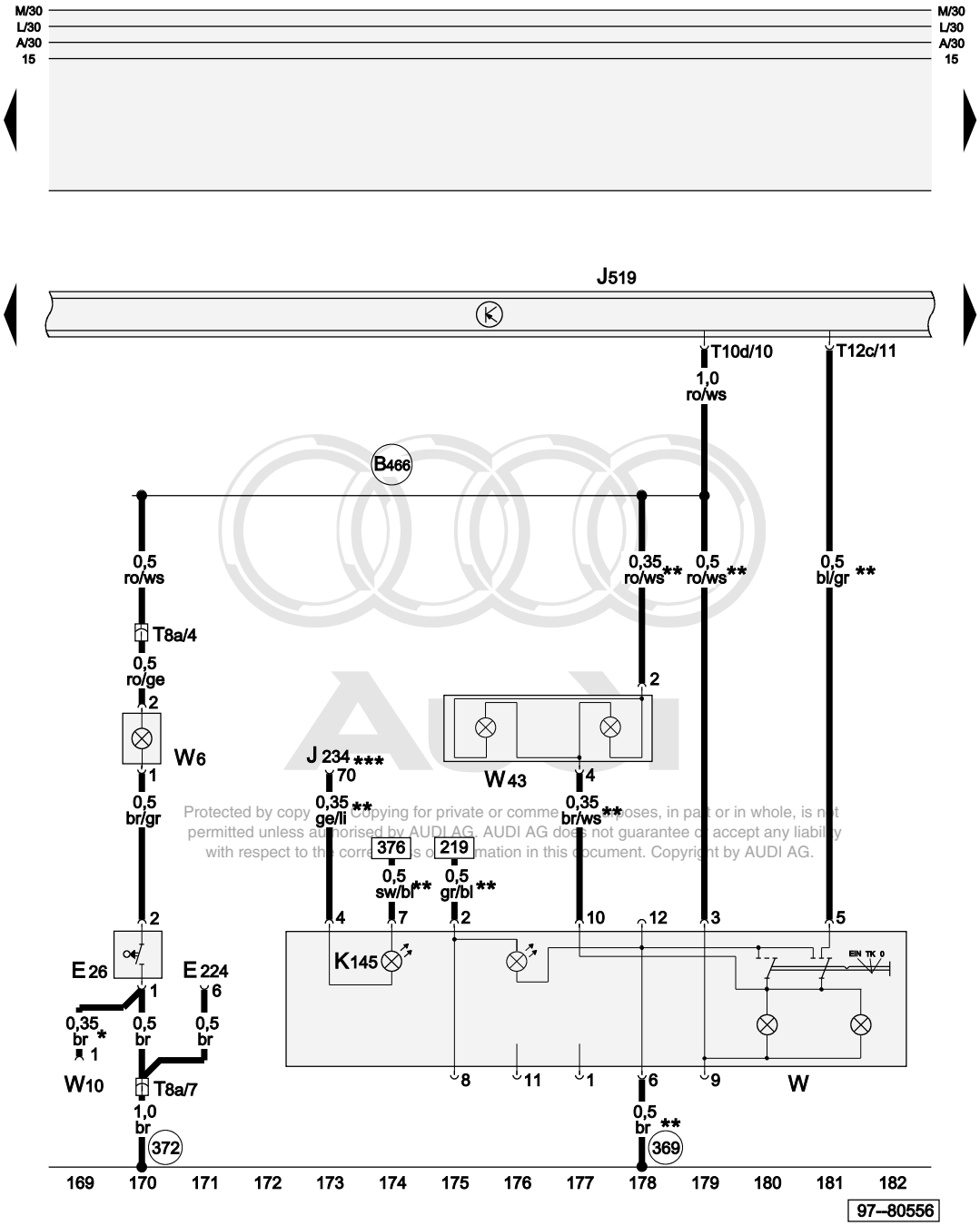


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Rear lid contact switch, number plate light

E234	Rear lid handle release button
F123	Rear lid contact switch for anti-theft alarm system
F124	Contact switch in lock cylinder for rear lid/anti-theft alarm system/ central locking system
J393	Convenience system central control unit
J519	Onboard supply control unit
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
T18	18-pin connector, brown (connector A)
V53	Rear lid central locking motor
X	Number plate light
98	Earth connection, in rear lid wiring harness
*	depends on equipment
#	F248 is replaced by E234

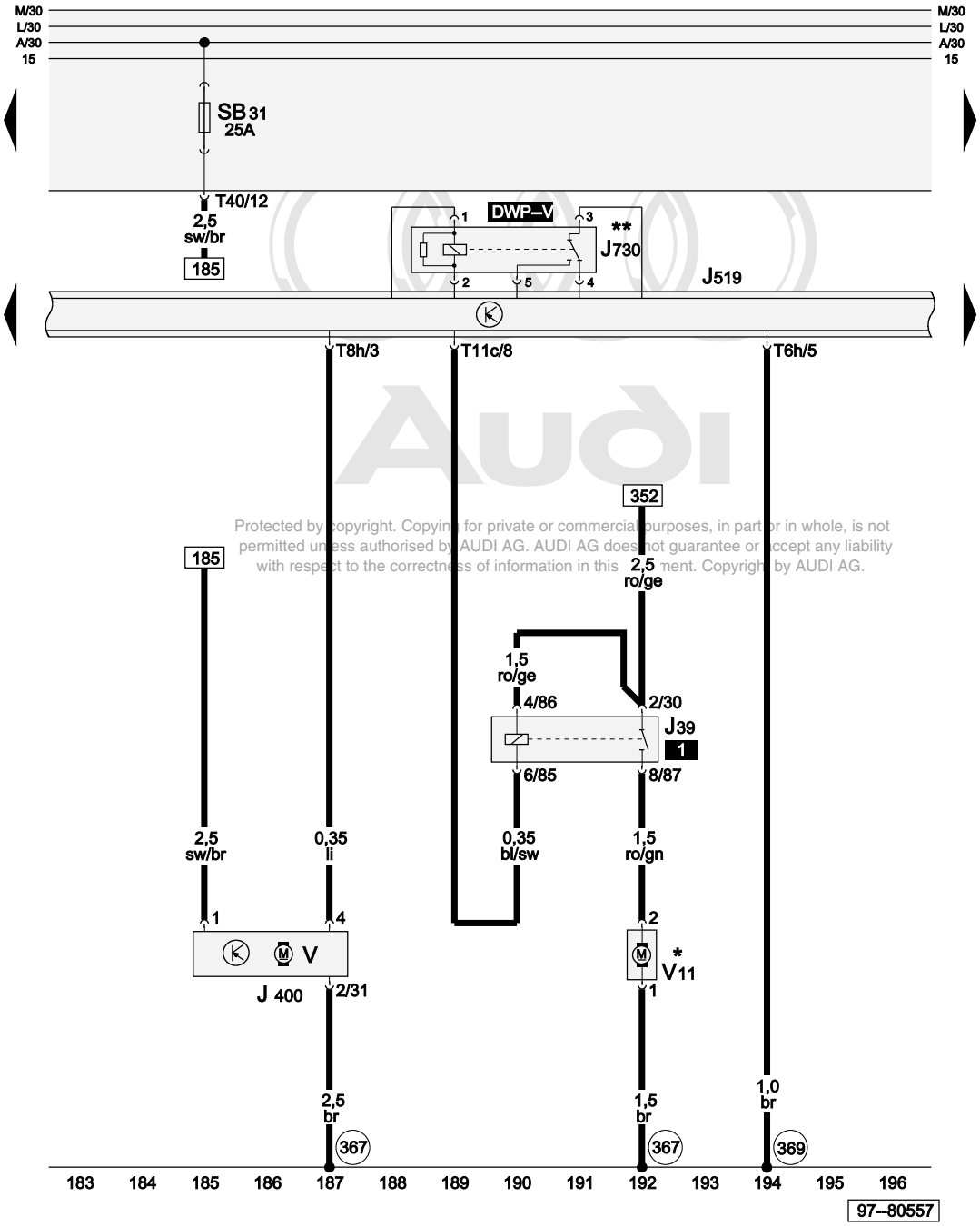


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Front and rear interior light, glove compartment light

E26	Glove compartment light switch
E224	Key operated switch to deactivate front passenger side airbag
J234	Airbag control unit
J519	Onboard supply control unit
K145	Front passenger side airbag deactivated warning lamp
T8a	8-pin connector, black, near glove compartment
T10d	10-pin connector, black (connector K)
T12c	12-pin connector, black (connector B)
W	Front interior light
W6	Glove compartment light
W10	Right footwell light
W43	Rear interior light
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B466	Connection 2, in main wiring harness
*	⇒ applicable Current Flow Diagram: convenience system
**	for models without reading lights only
***	⇒ applicable Current Flow Diagram: airbag

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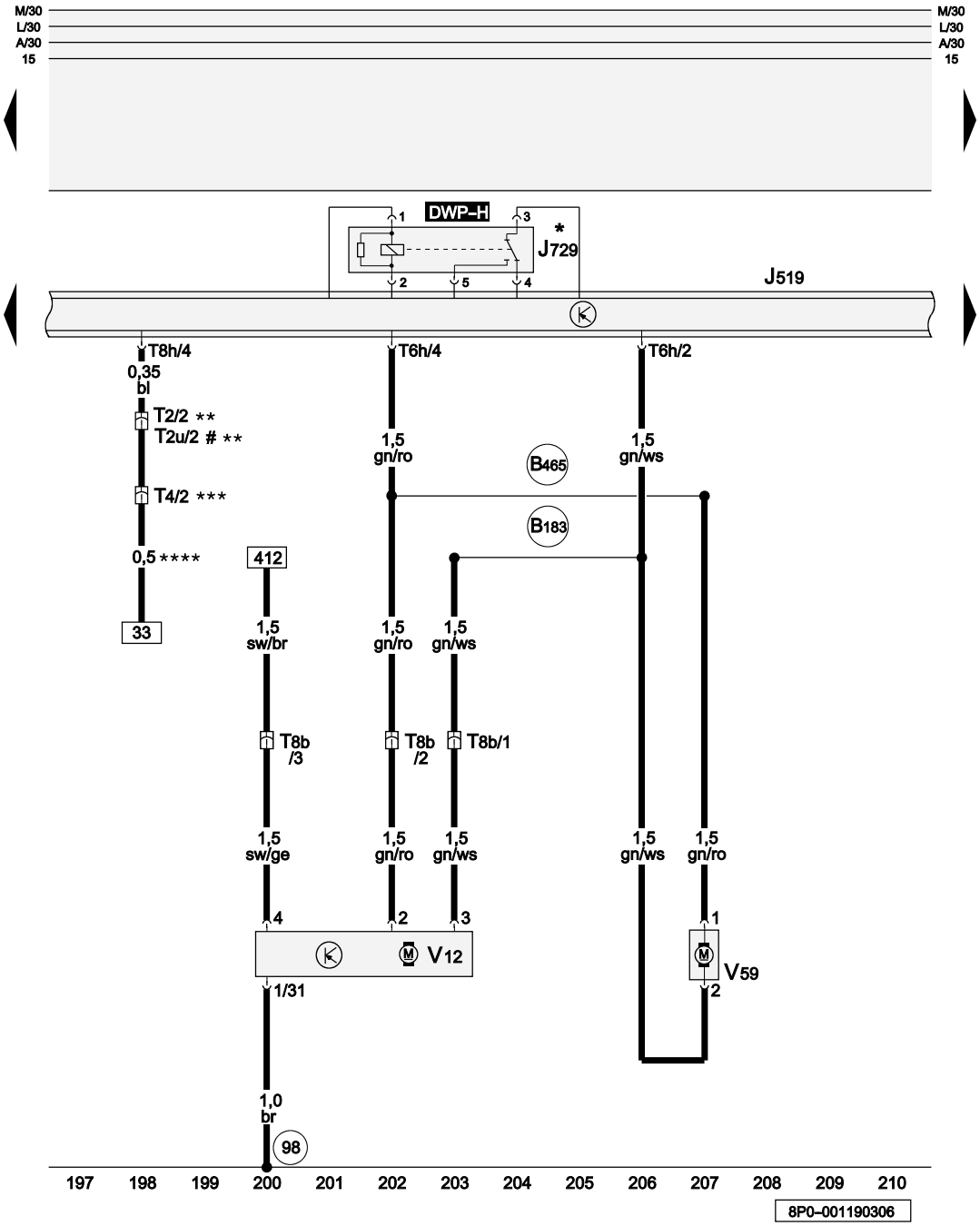


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Headlight washer system relay, double washer pump relay 2, front windscreen wiper motor

J39	Headlight washer system relay
J400	Wiper motor control unit
J519	Onboard supply control unit
J730	Double washer pump relay 2
SB31	Fuse 31 on fuse holder
T6h	6-pin connector, black (connector J)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
V	Windscreen wiper motor
V11	Headlight washer system pump
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
*	for models with headlight washer system only
**	Washer pump relay, front

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

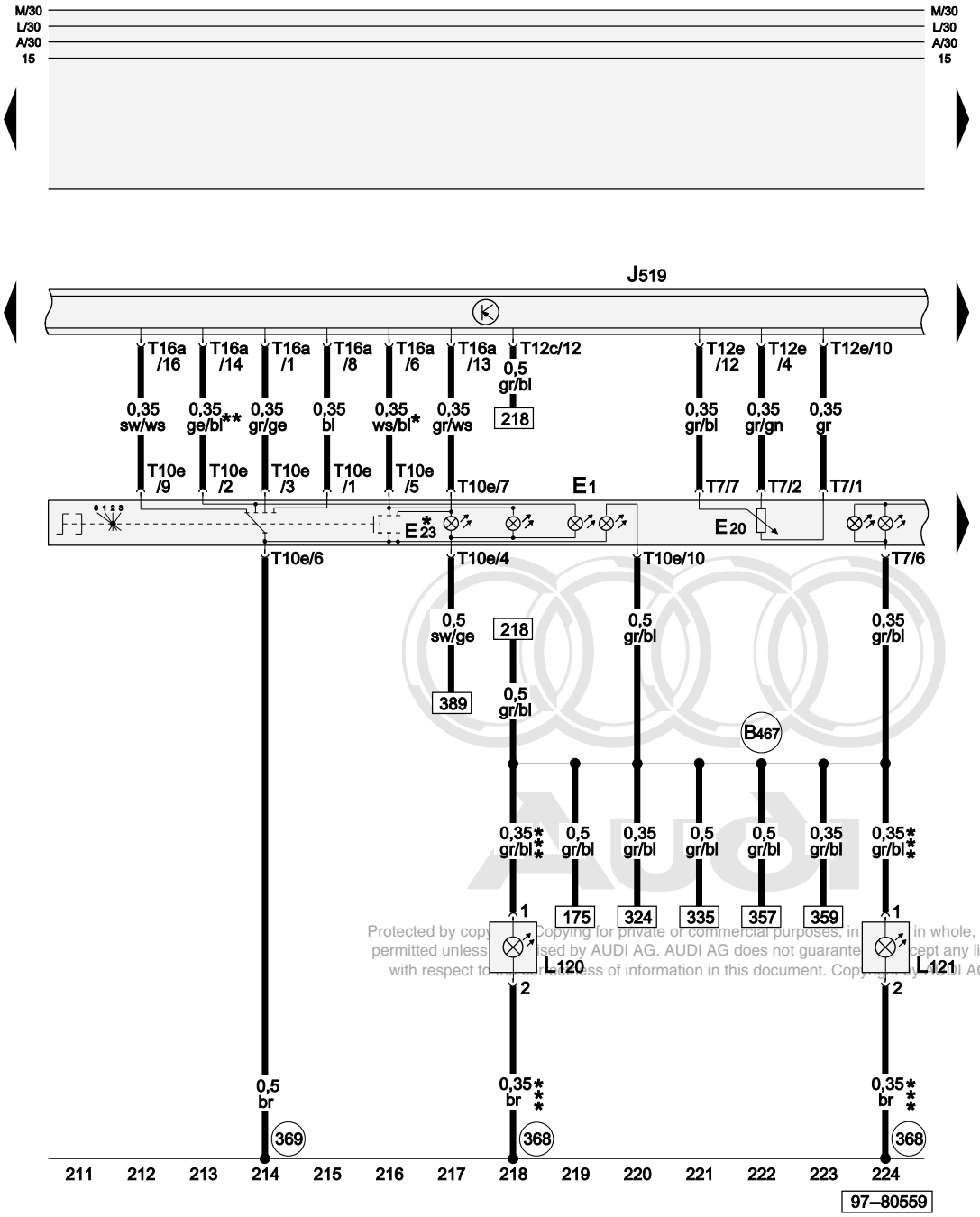


Washer pump, rear window wiper motor, double washer pump relay 1

J519	Onboard supply control unit
J729	Double washer pump relay 1
T2	2-pin connector, black, in front left engine compartment
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T6h	6-pin connector, black (connector J)
T8b	8-pin connector, brown, on left C-pillar
T8h	8-pin connector, black (connector F)
V12	Rear window wiper motor
V59	Windscreen and rear window washer pump
98	Earth connection, in rear lid wiring harness
B183	Connection 1 (washer pump), in interior wiring harness
B465	Connection 1, in main wiring harness
*	Rear window washer pump relay
**	for models without air conditioning system only
***	for models with air conditioning system only
****	⇒ applicable engine Current Flow Diagram
#	T2 is replaced by T2u, applicable from November 2003

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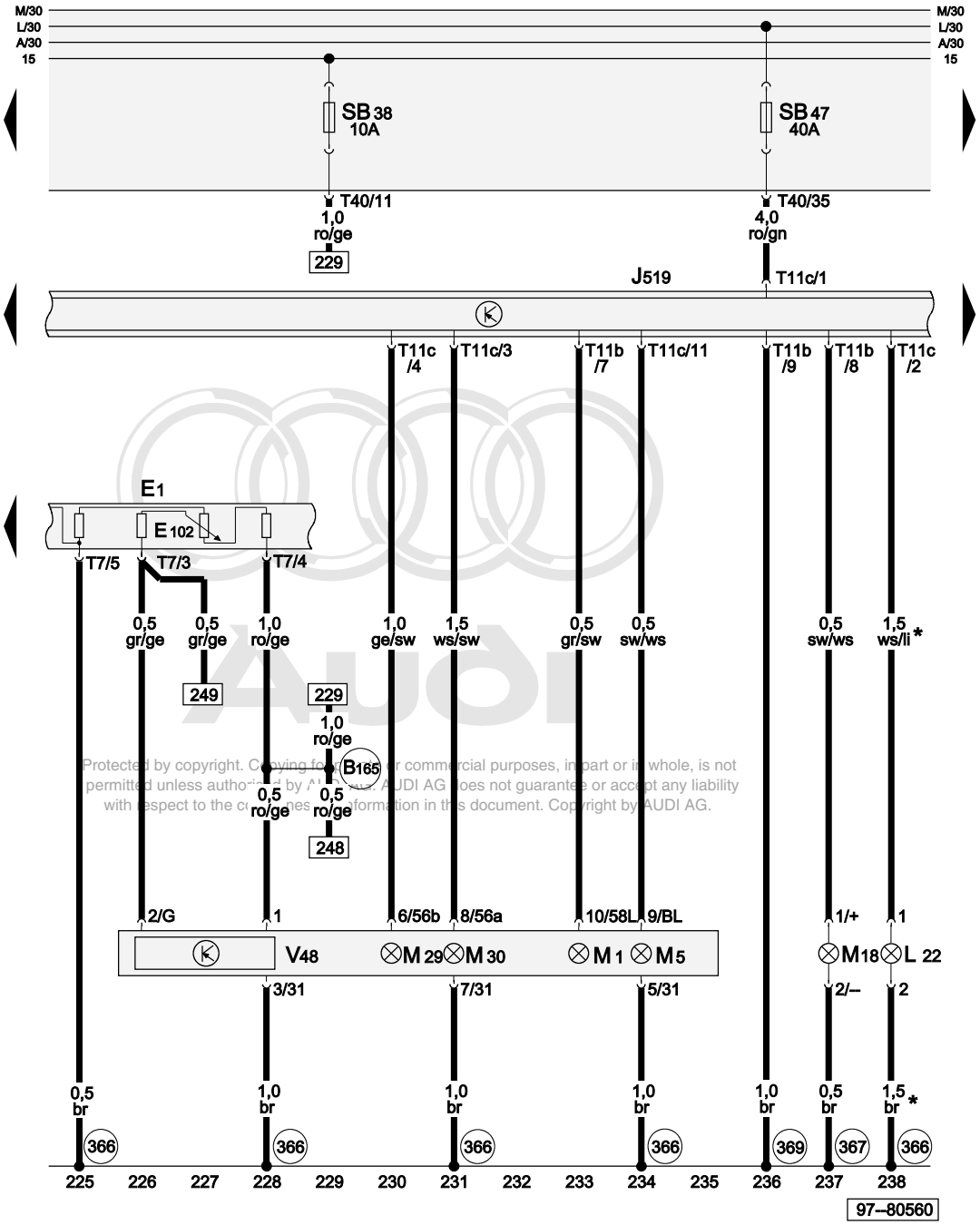


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Light switch, illumination regulators - switches and instruments, front and rear fog light switch

E1	Light switch
E20	Illumination regulators - switches and instruments
E23	Front and rear fog light switch
J519	Onboard supply control unit
L120	Storage compartment illumination bulb
L121	Cup holder illumination bulb
T7	7-pin connector, black (connector B)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T12e	12-pin connector, black (connector G)
T16a	16-pin connector, black (connector E)
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
B467	Connection 3 in main wiring harness
*	for models with front fog light only
**	for models with automatic headlight switching only
***	for models with shelf illumination and cup holder illumination only

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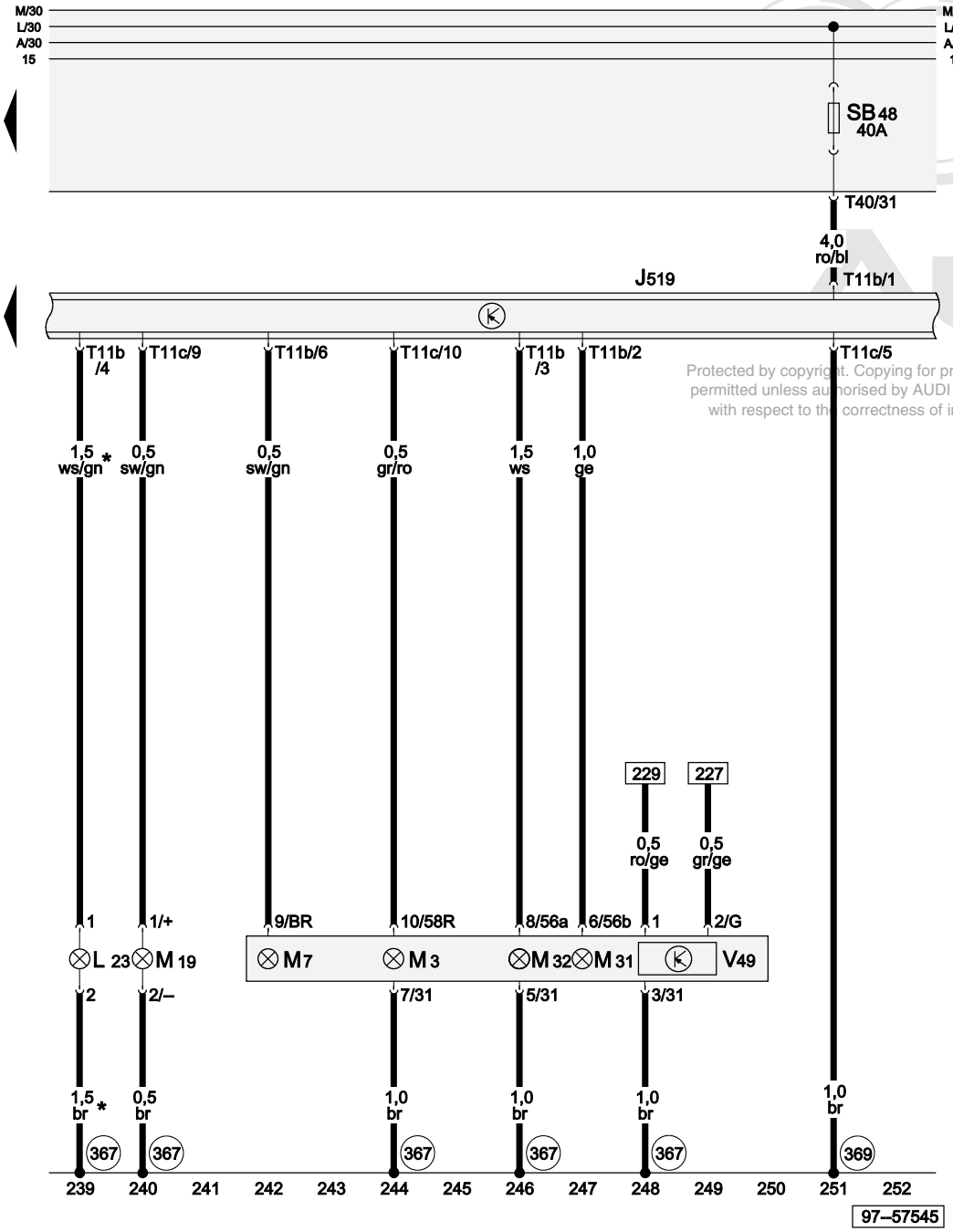


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Headlight range control regulator, front left headlight bulbs, left fog light

E1	Light switch
E102	Headlight range control regulator
J519	Onboard supply control unit
L22	Left fog light bulb
M1	Left side light bulb
M5	Front left turn signal bulb
M18	Left side mounted turn signal bulb
M29	Left dipped beam bulb
M30	Left main beam bulb
SB38	Fuse 38 on fuse holder
SB47	Fuse 47 on fuse holder
T7	7-pin connector, black (connector B)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
V48	Left headlight range control motor
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
B165	Positive connection 2 (15), in interior wiring harness
*	for models with front fog light only

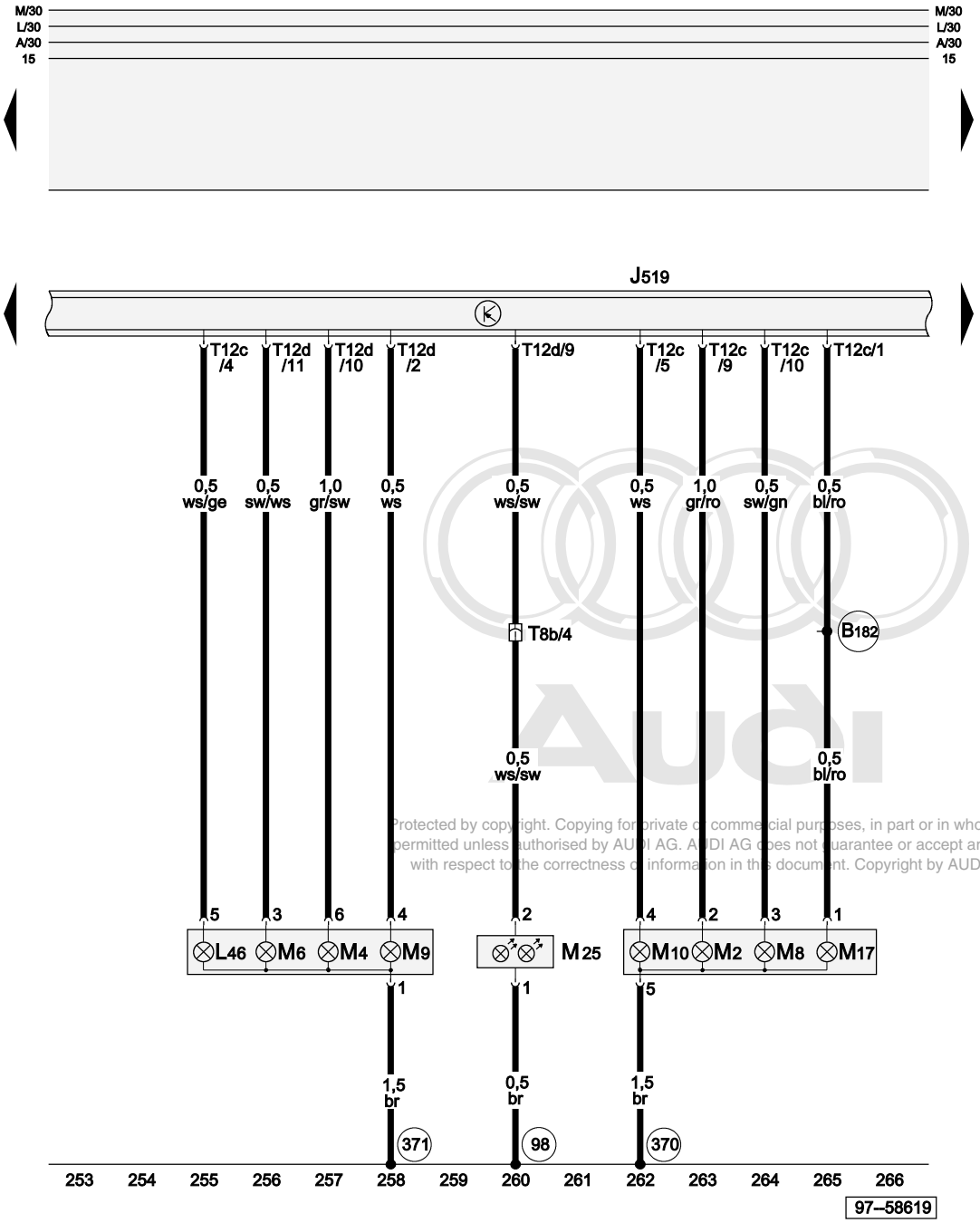


Front right headlight bulbs, right fog light

J519	Onboard supply control unit
L23	Right fog light bulb
M3	Right side light bulb
M7	Front right turn signal bulb
M19	Right side mounted turn signal bulb
M31	Right dipped beam bulb
M32	Right main beam bulb
SB48	Fuse 48 on fuse holder
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
V49	Right headlight range control motor
(367)	Earth connection 2, in main wiring harness
(369)	Earth connection 4, in main wiring harness
*	for models with front fog light only

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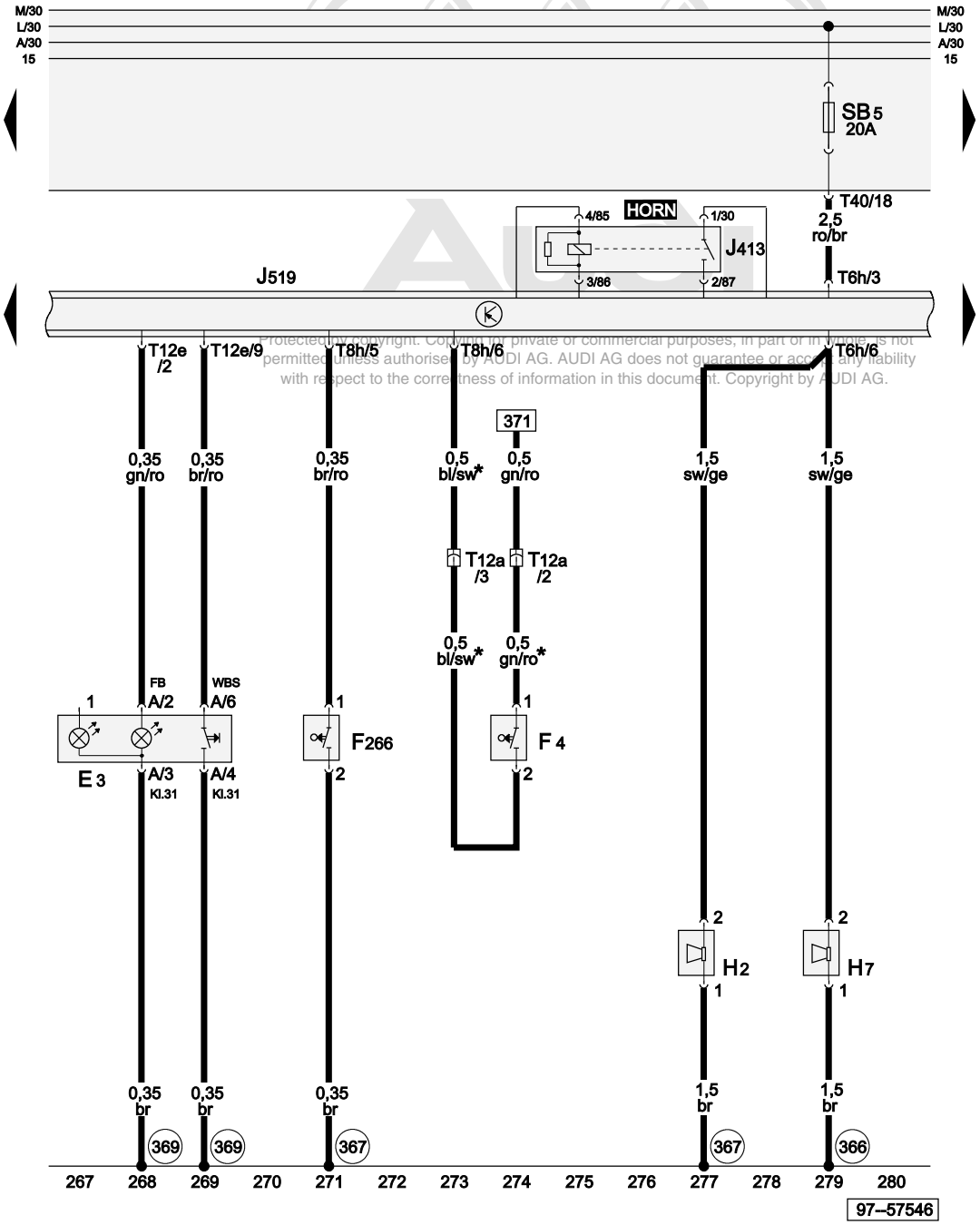


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Tail light bulbs, turn signal, brake light, reversing light

J519	Onboard supply control unit
L46	Rear left fog light bulb
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M9	Left brake light bulb
M10	Right brake light bulb
M17	Right reversing light bulb
M25	High level brake light bulb
T8b	8-pin connector, brown, on left C-pillar
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
98	Earth connection, in rear lid wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B182	Connection (RL), in interior wiring harness

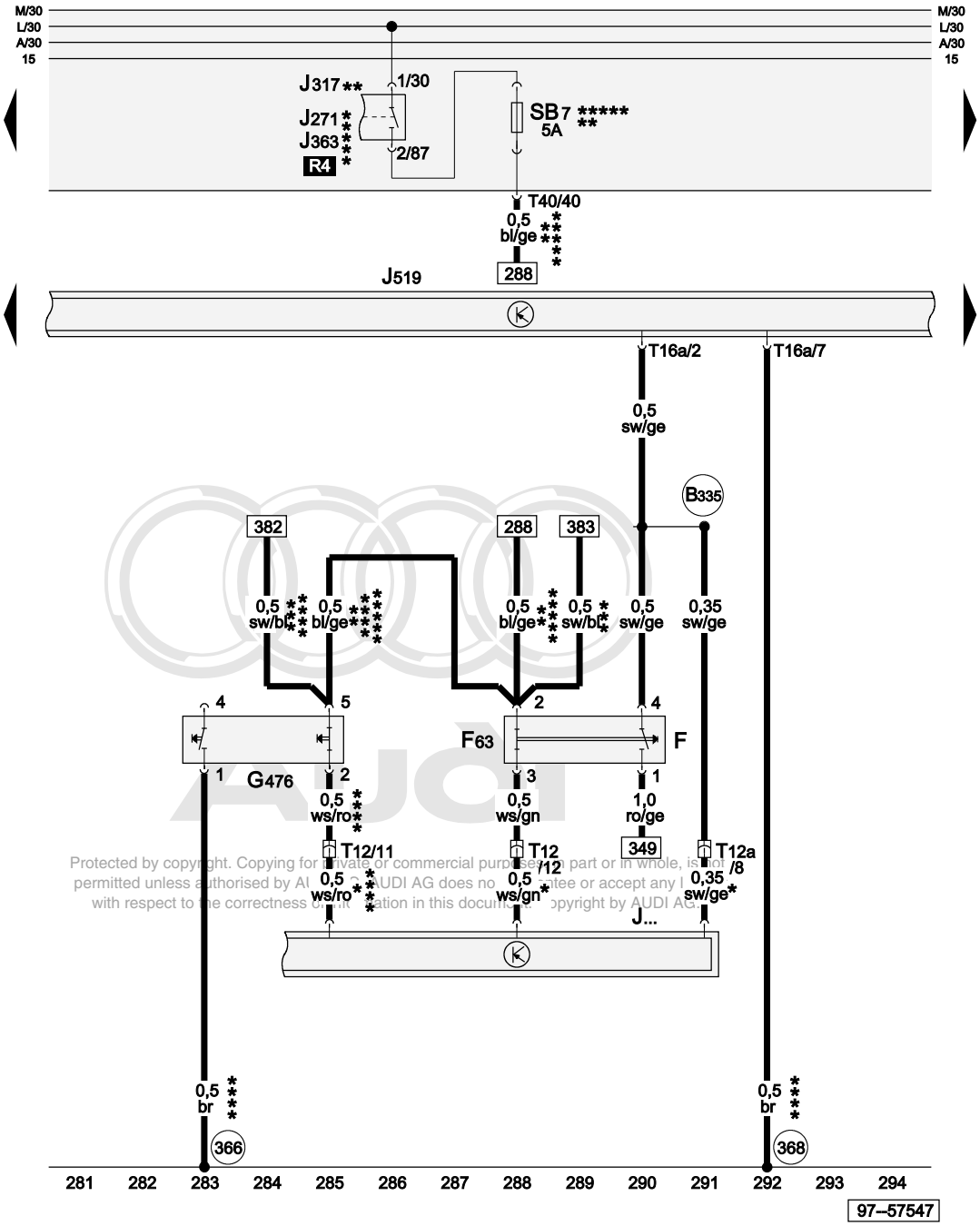


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Hazard warning light switch, treble tone horn, bass tone horn, reversing light switch

E3	Hazard warning light switch
F4	Reversing light switch
F266	Bonnet contact switch
H2	Treble tone horn
H7	Bass tone horn
J413	Horn relay
J519	Onboard supply control unit
SB5	Fuse 5 on fuse holder
T6h	6-pin connector, black (connector J)
T8h	8-pin connector, black (connector F)
T12a	12-pin connector, blue, in plenum chamber
T12e	12-pin connector, black (connector G)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
*	for models with manual gearbox only

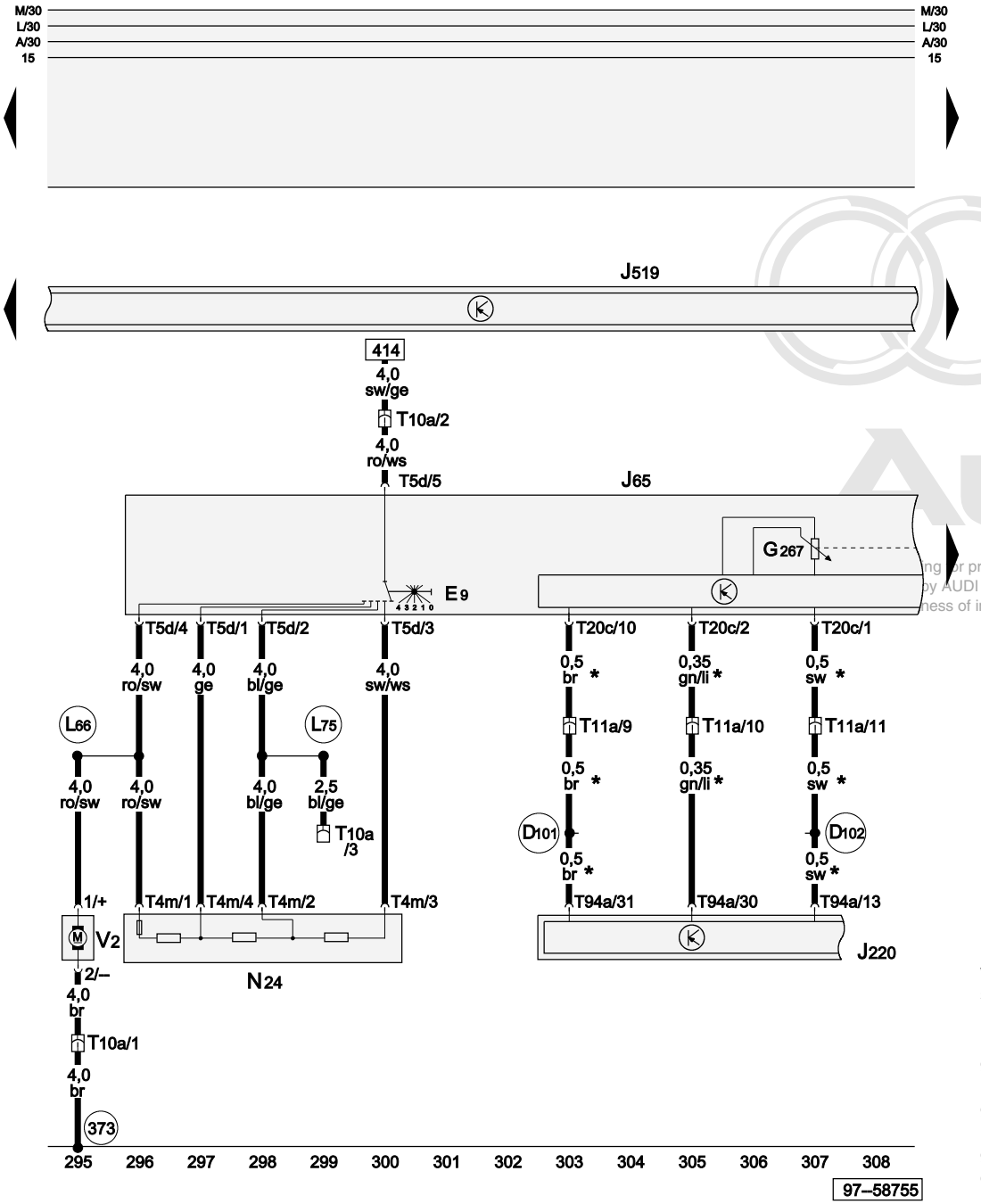


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Clutch travel sender, brake light switch

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J...	Engine control units
J271	Motronic current supply relay
J317	Terminal 30 voltage supply relay
J363	Current supply relay for Simos control unit
J519	Onboard supply control unit
SB7	Fuse 7 on fuse holder
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T16a	16-pin connector, black (connector E)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable engine Current Flow Diagram
**	for models with diesel engines only
***	for models with petrol engines only, from week 17/2003 no longer fitted
****	for models with manual gearbox only
*****	for models with petrol engines only, applicable from week 17/2003

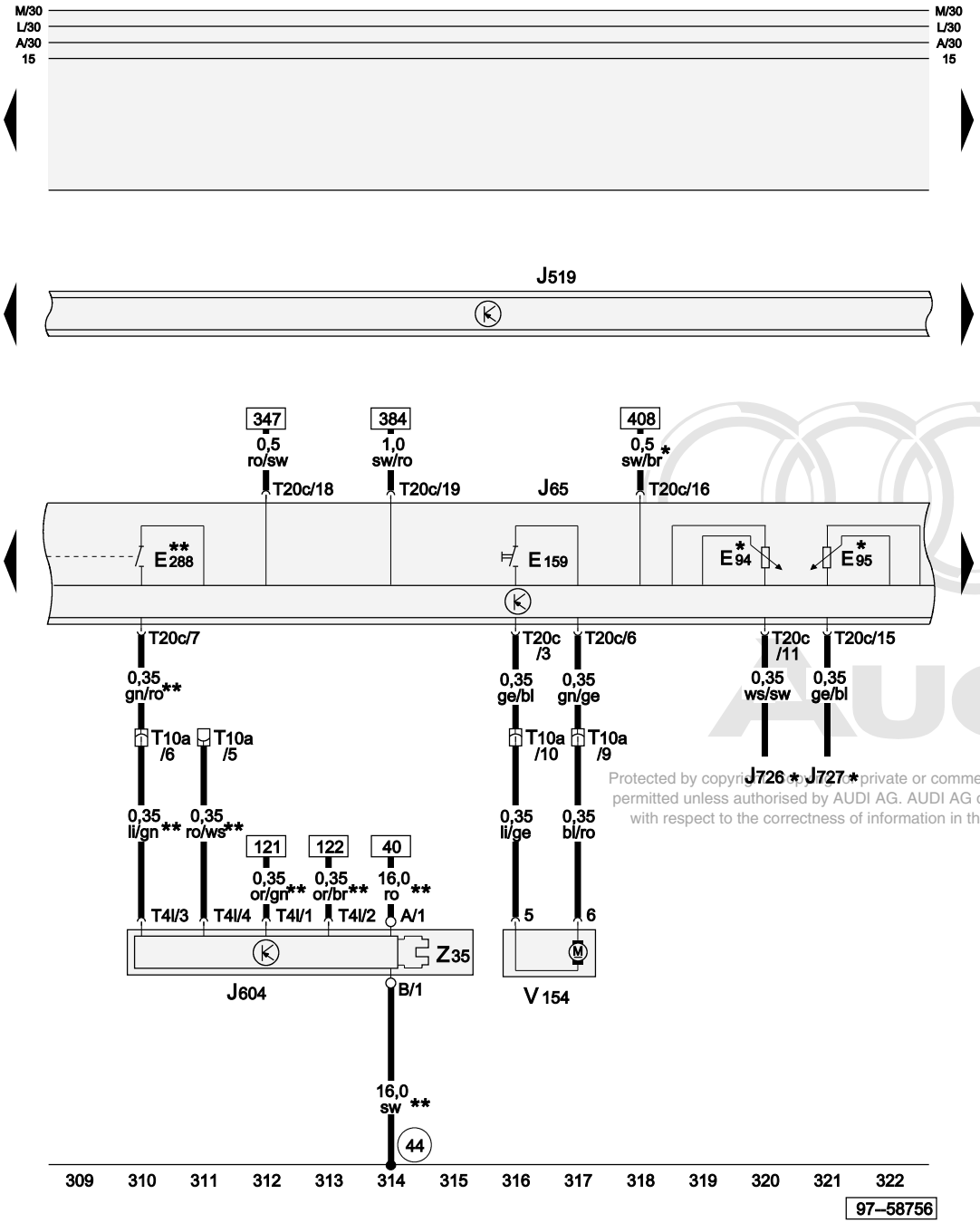


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Fresh air blower switch, potentiometer, temperature selection rotary knob

E9	Fresh air blower switch
G267	Potentiometer, temperature selection rotary knob
J65	Heater control unit
J220	Motronic control unit
J519	Onboard supply control unit
N24	Fresh air blower series resistor with overheating fuse
T4m	4-pin connector, black (connector A)
T5d	5-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T11a	11-pin connector, red, in plenum chamber
T20c	20-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
V2	Fresh air blower
373	Earth connection 8, in main wiring harness
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness
L66	Connection, in heater blower wiring harness
L75	Connection 2, in heater blower wiring harness
*	for models with engine codes AXW, BAG only, ⇒ applicable engine Current Flow Diagram

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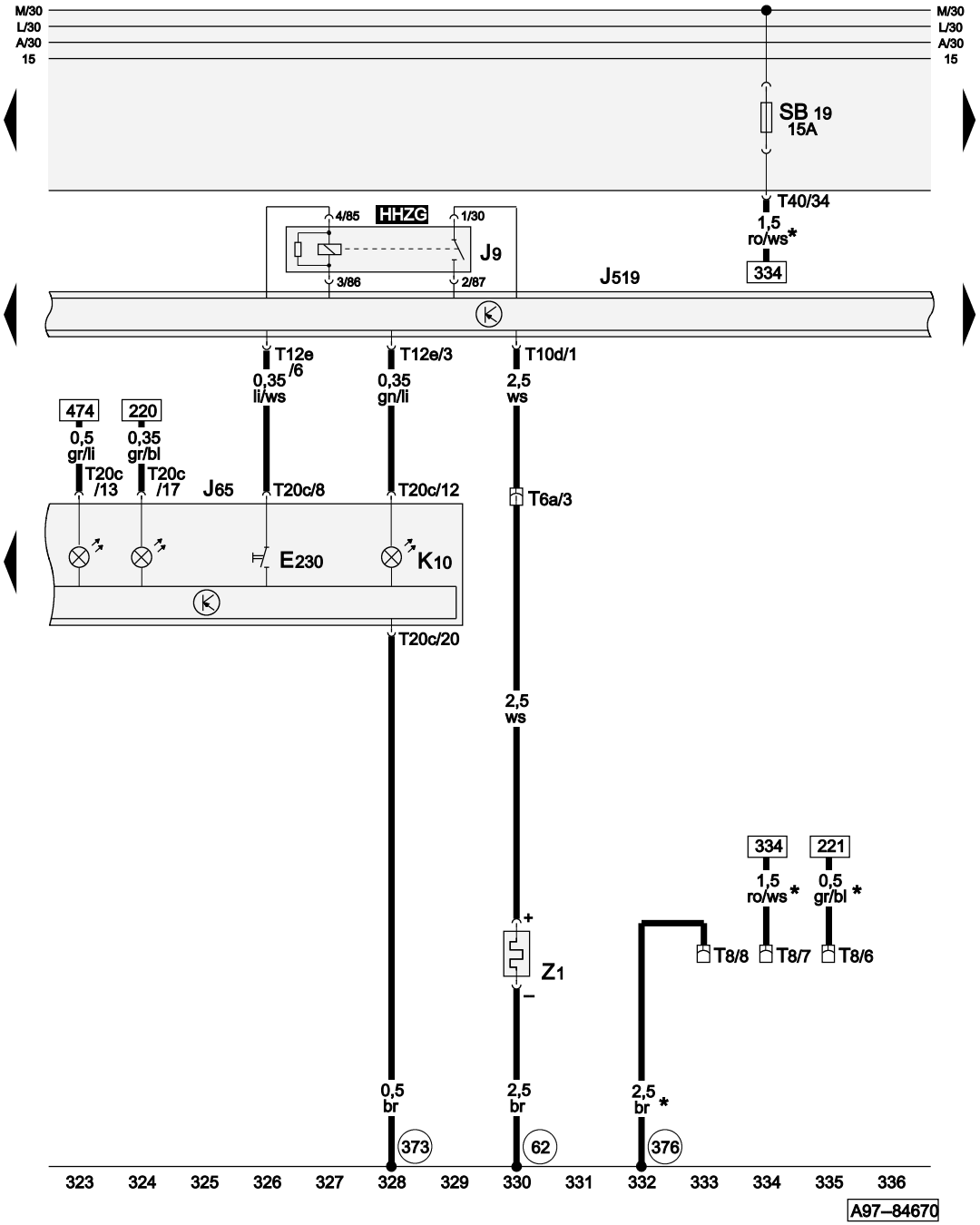


Auxiliary heating heater element, fresh air and air recirculation flap switch, auxiliary heater economy (ECON) button

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
E159	Fresh air/air recirculation flap switch
E288	Auxiliary heater economy (ECON) button
J65	Heater control unit
J519	Onboard supply control unit
J604	Auxiliary air heater control unit
J726	Driver seat heating control unit
J727	Front passenger seat heating control unit
T4l	4-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T20c	20-pin connector, black (connector A)
V154	Fresh air/recirculated air flap control motor
Z35	Auxiliary heating heater element
44	Earth point, lower part of left A-pillar
*	⇒ applicable Current Flow Diagram: seat heating
**	for models with auxiliary air heater only

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ro	=	red
br	=	brown
gn	=	green
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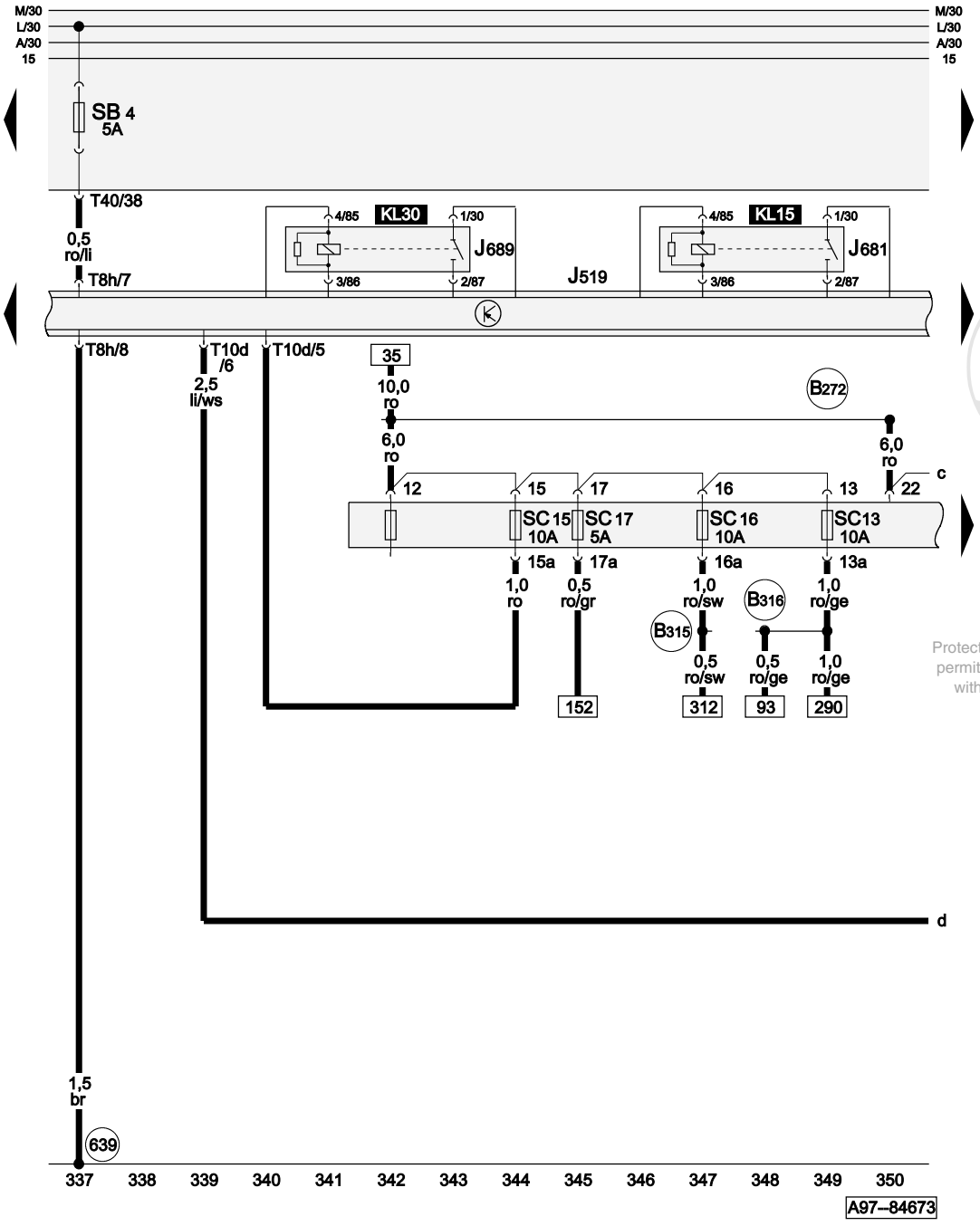


Heated rear window button, heated rear window relay

E230	Heated rear window button
J9	Heated rear window relay
J519	Onboard supply control unit
K10	Heated rear window warning lamp
SB19	Fuse 19 on fuse holder
T6a	6-pin connector, black, on left C-pillar
T8	8-pin connector, black (connector A)
T10d	10-pin connector, black (connector K)
T12e	12-pin connector, black (connector G)
T20c	20-pin connector, black (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
Z1	Heated rear window
62	Earth point, right C-pillar
373	Earth connection 8, in main wiring harness
376	Earth connection 11, in main wiring harness
*	with preparation for radio

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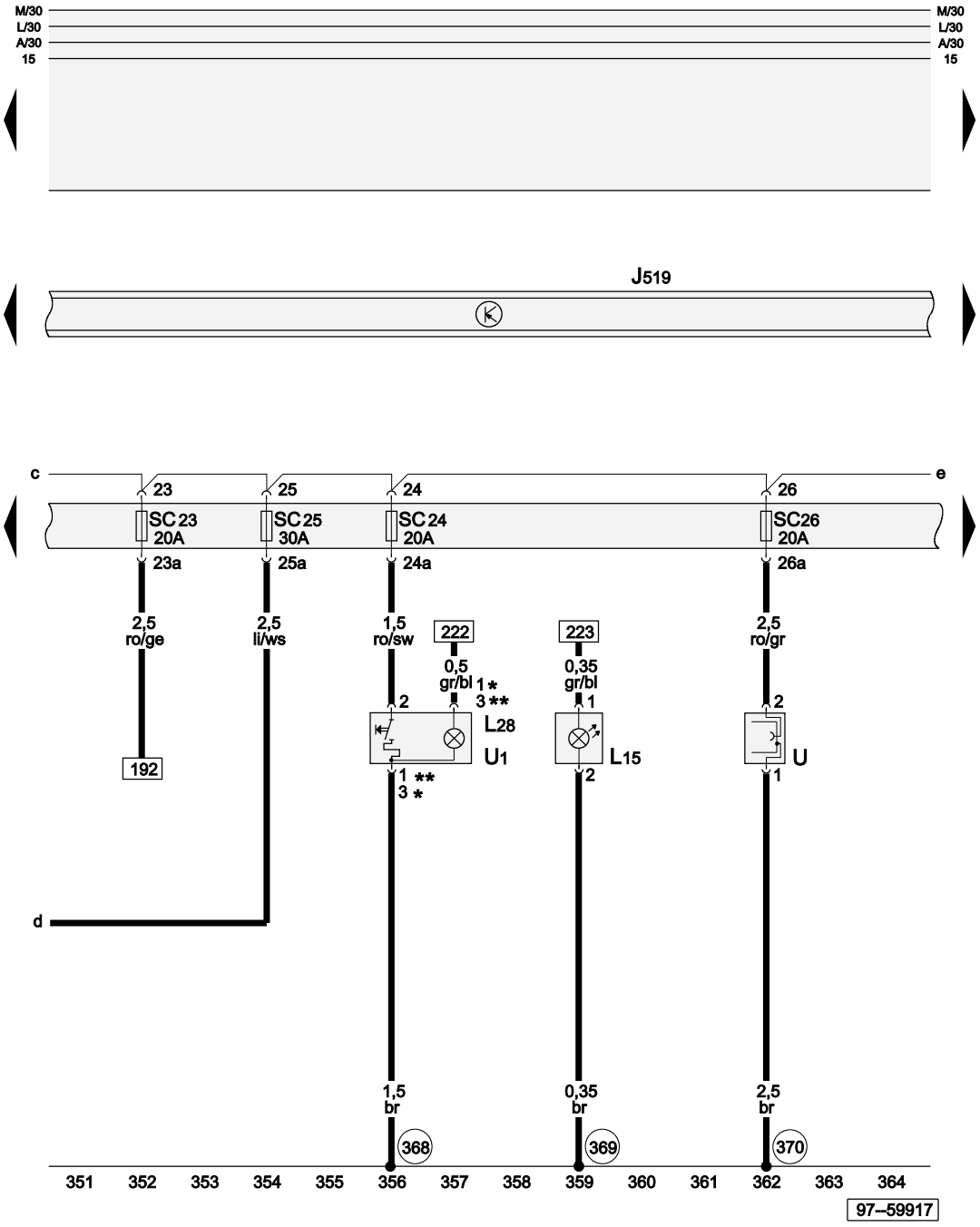


Terminal 15 voltage supply relay 2, terminal 30 voltage supply relay 2, fuses on fuse holder

J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
J689	Terminal 30 voltage supply relay 2
SB4	Fuse 4 on fuse holder
SC13	Fuse 13 on fuse holder
SC15	Fuse 15 on fuse holder
SC16	Fuse 16 on fuse holder
SC17	Fuse 17 on fuse holder
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
639	Earth point, left A-pillar
B272	Positive connection (30), in main wiring harness
B315	Positive connection 1 (30a), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness

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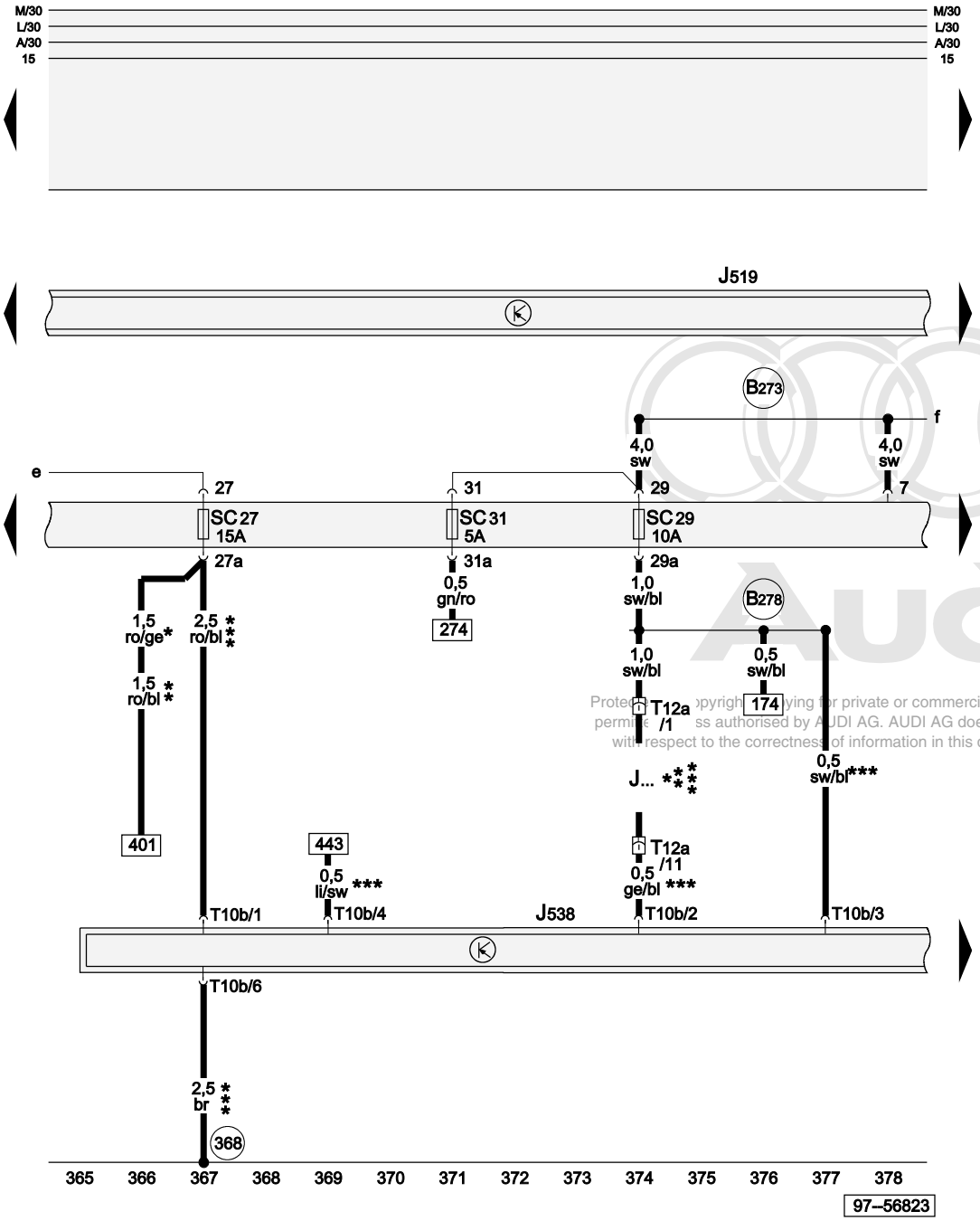


Ashtray illumination, cigarette lighter illumination, fuses on fuse holder

J519	Onboard supply control unit
L15	Ashtray illumination bulb
L28	Cigarette lighter illumination bulb
SC23	Fuse 23 on fuse holder
SC24	Fuse 24 on fuse holder
SC25	Fuse 25 on fuse holder
SC26	Fuse 26 on fuse holder
U	Electric socket
U1	Cigarette lighter
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
370	Earth connection 5, in main wiring harness
*	for models with navigation only
**	for models without navigation only

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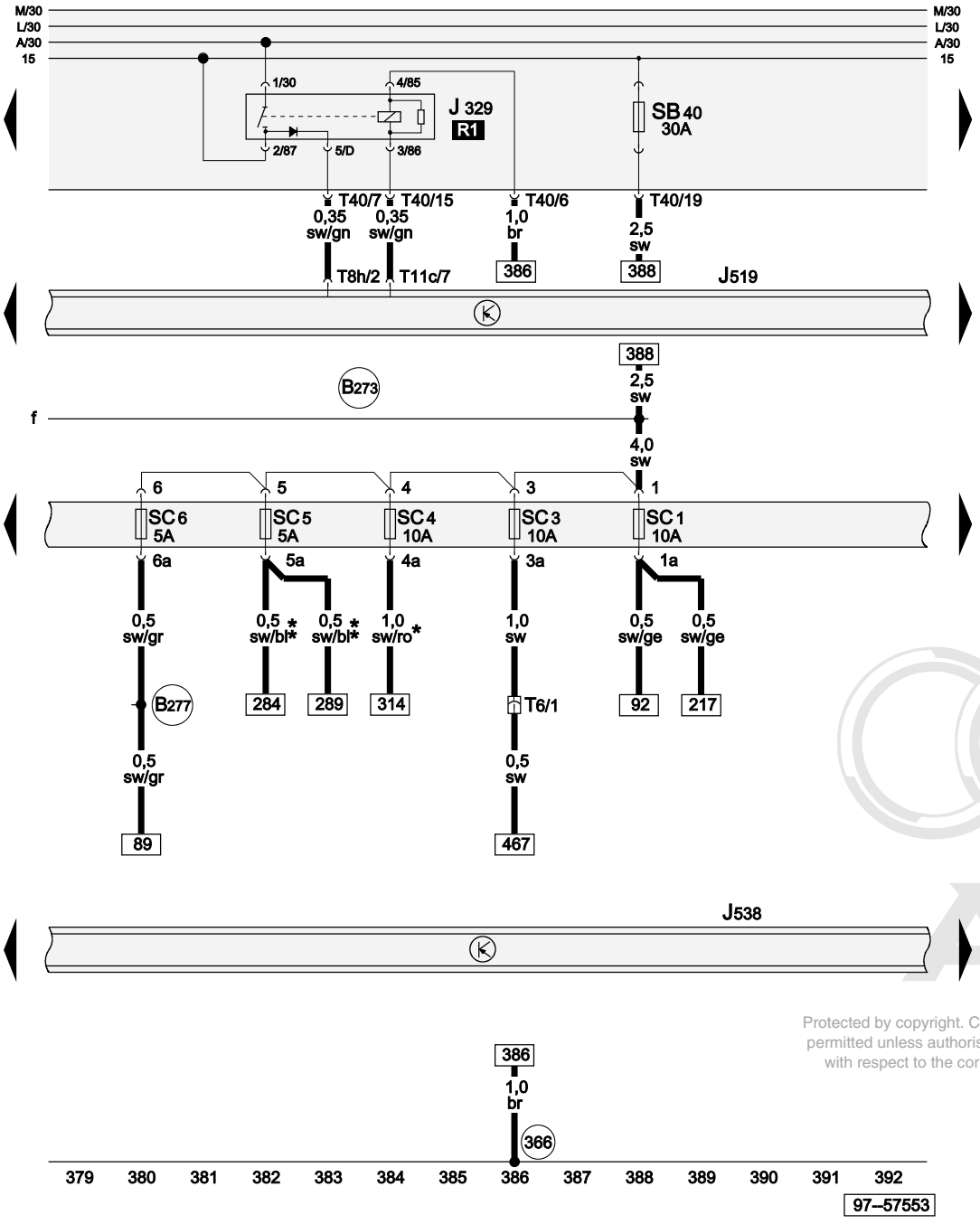


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Fuel pump control unit, fuses on fuse holder

J...	Engine control units
J519	Onboard supply control unit
J538	Fuel pump control unit
SC27	Fuse 27 on fuse holder
SC29	Fuse 29 von fuse holder
SC31	Fuse 31 on fuse holder
T10b	10-pin connector, black (connector A)
T12a	12-pin connector, blue, in plenum chamber
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	for models with engine codes AZV, BKC, BKD only
**	for models with engine codes BGU only
***	for models with engine codes AXW, BAG only

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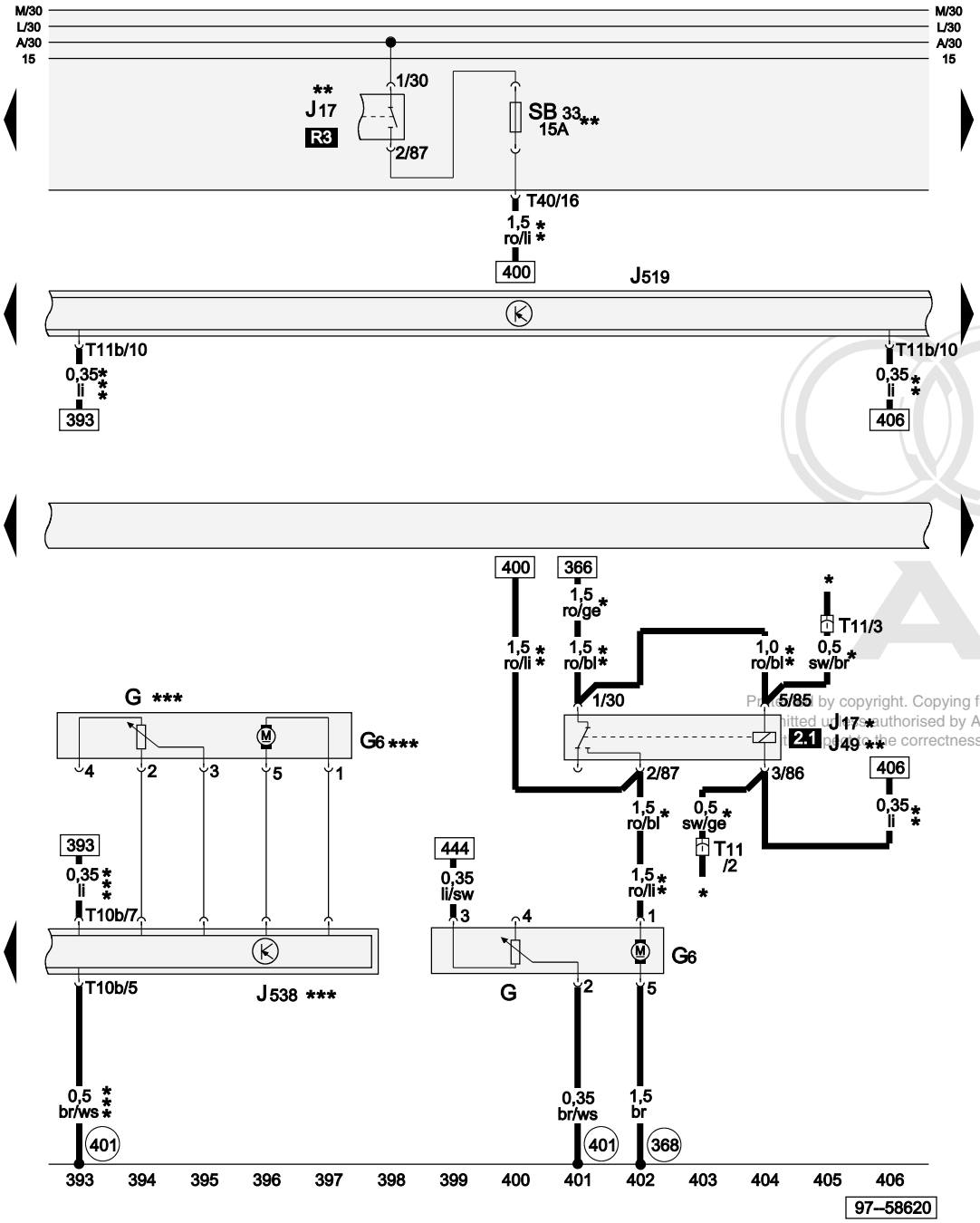


Terminal 15 voltage supply relay, fuses on fuse holder

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J538	Fuel pump control unit
SB40	Fuse 40 on fuse holder
SC1	Fuse 1 on fuse holder
SC3	Fuse 3 on fuse holder
SC4	Fuse 4 on fuse holder
SC5	Fuse 5 on fuse holder
SC6	Fuse 6 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
*	for models without air conditioning system only
**	From week 17/2003 no longer fitted

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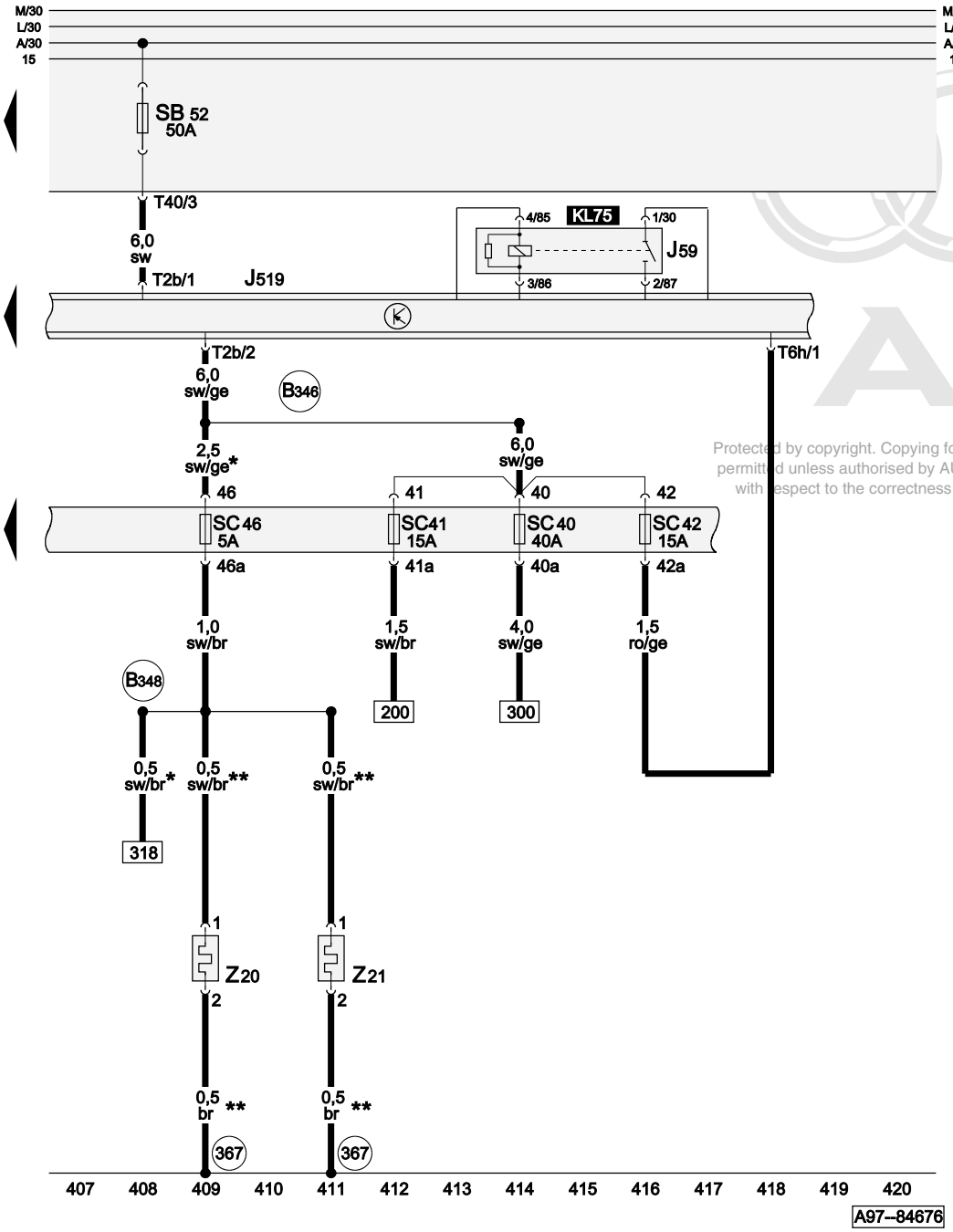


Fuel pump relay, fuel gauge sender, fuel pump

G	Fuel gauge sender
G6	Fuel pump (pre-supply pump)
J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J519	Onboard supply control unit
J538	Fuel pump control unit
SB33	Fuse 33 on fuse holder
T11	11-pin connector, white, in plenum chamber
T11b	11-pin connector, black (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
*	for models with engine codes AZV, BKC, BKD only, ⇒ applicable engine Current Flow Diagram
**	for models with engine code BGU only, ⇒ applicable engine Current Flow Diagram
***	for models with engine codes AXW, BAG only ⇒ applicable engine Current Flow Diagram

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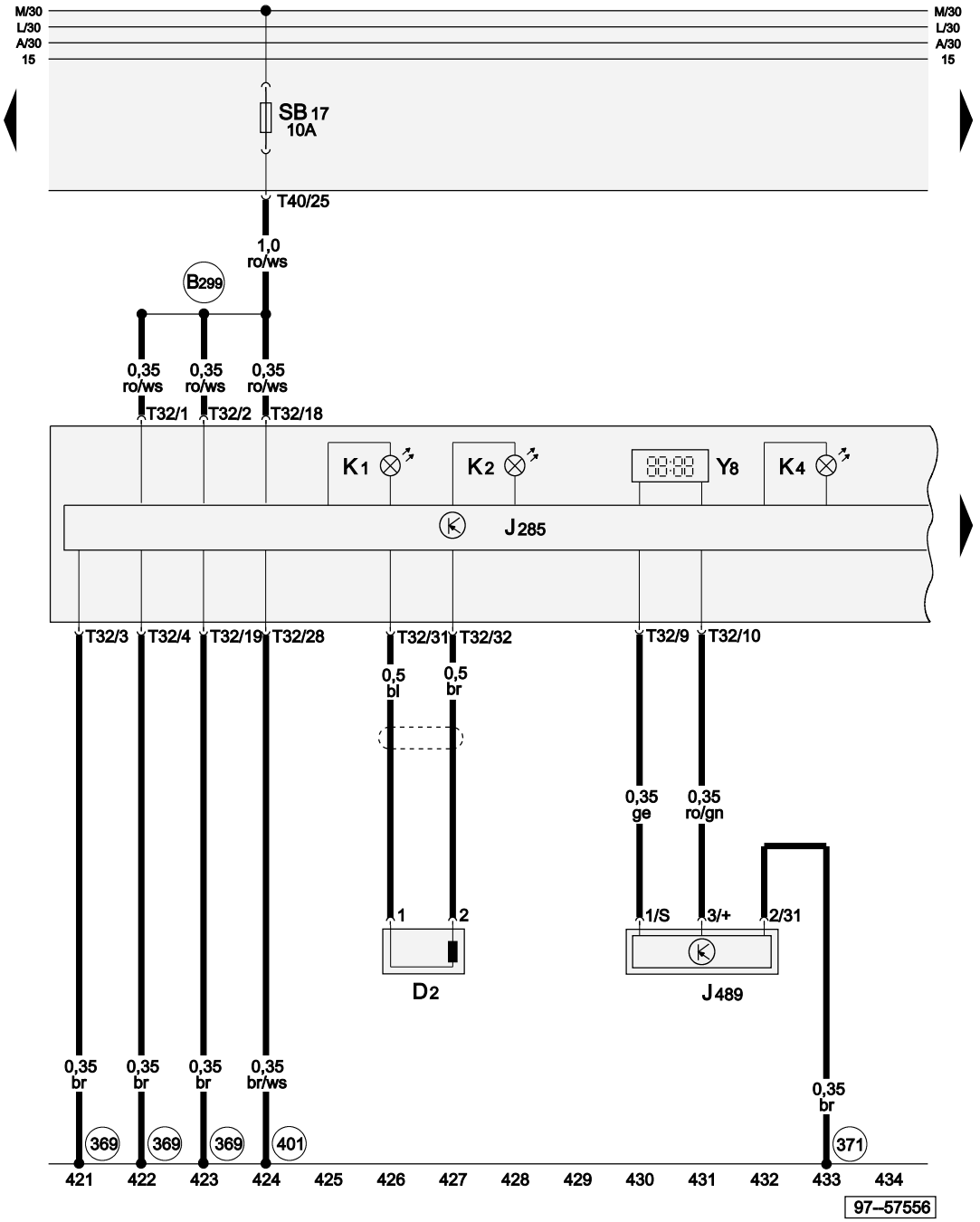


X-contact relief relay, fuses on fuse holder, left and right washer jet heater element

J59	X-contact relief relay
J519	Onboard supply control unit
SB52	Fuse 52 on fuse holder
SC40	Fuse 40 on fuse holder
SC41	Fuse 41 on fuse holder
SC42	Fuse 42 on fuse holder
SC46	Fuse 46 on fuse holder
T2b	2-pin connector, brown (connector I)
T6h	6-pin connector, black (connector J)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
Z20	Left washer jet heater element
Z21	Right washer jet heater element
367	Earth connection 2, in main wiring harness
B346	Connection 1 (75), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
*	for models with seat heating only
**	for models with washer jets heater element only

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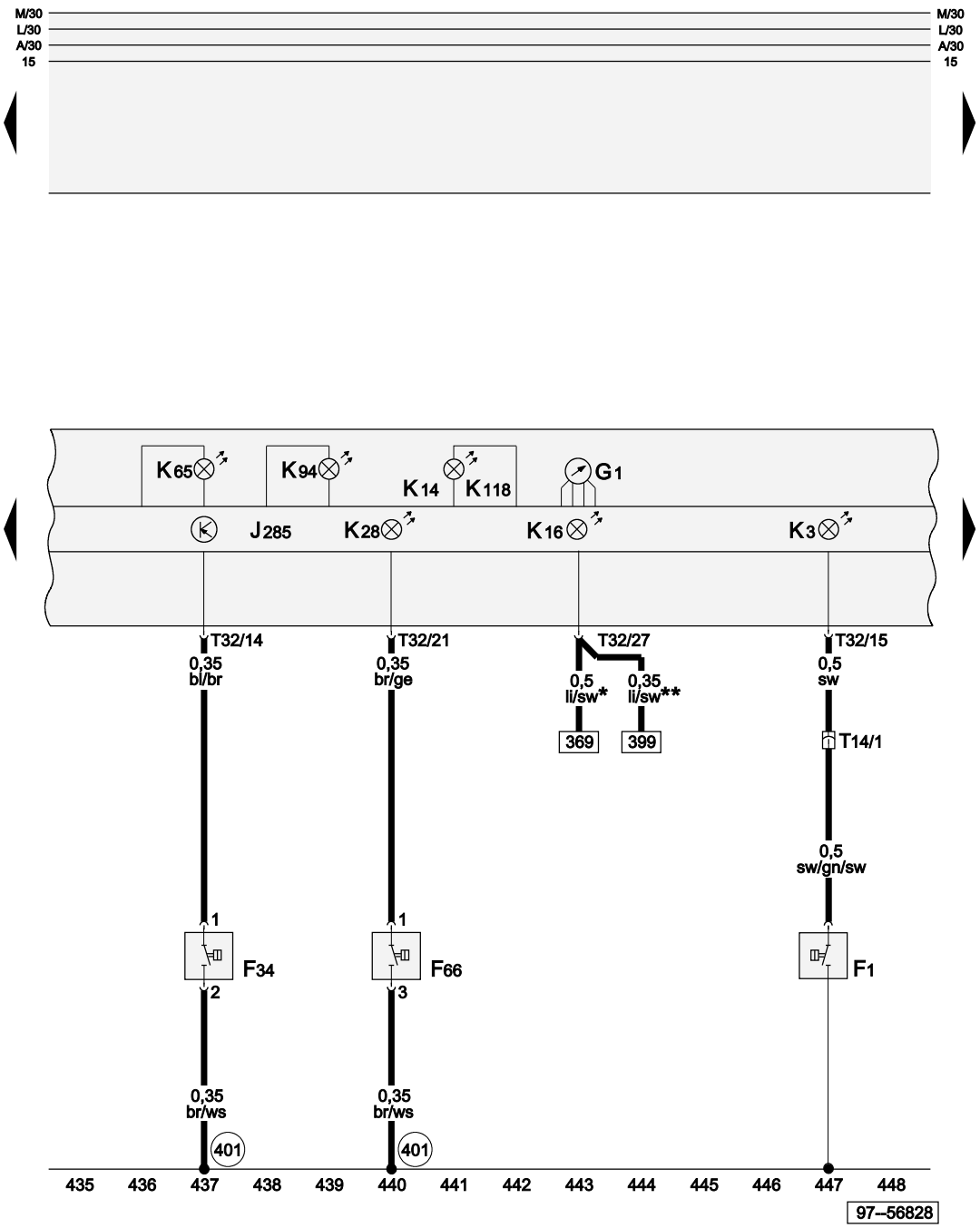


Radio controlled clock receiver, immobilizer reader coil, control unit with display in dash panel insert

D2	Immobilizer reader coil
J285	Control unit with display in dash panel insert
J489	Radio controlled clock receiver
K1	Main beam warning lamp
K2	Alternator warning lamp
K4	Side light warning lamp
SB17	Fuse 17 on fuse holder
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
Y8	Radio controlled clock
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection -3- (30), in main wiring harness

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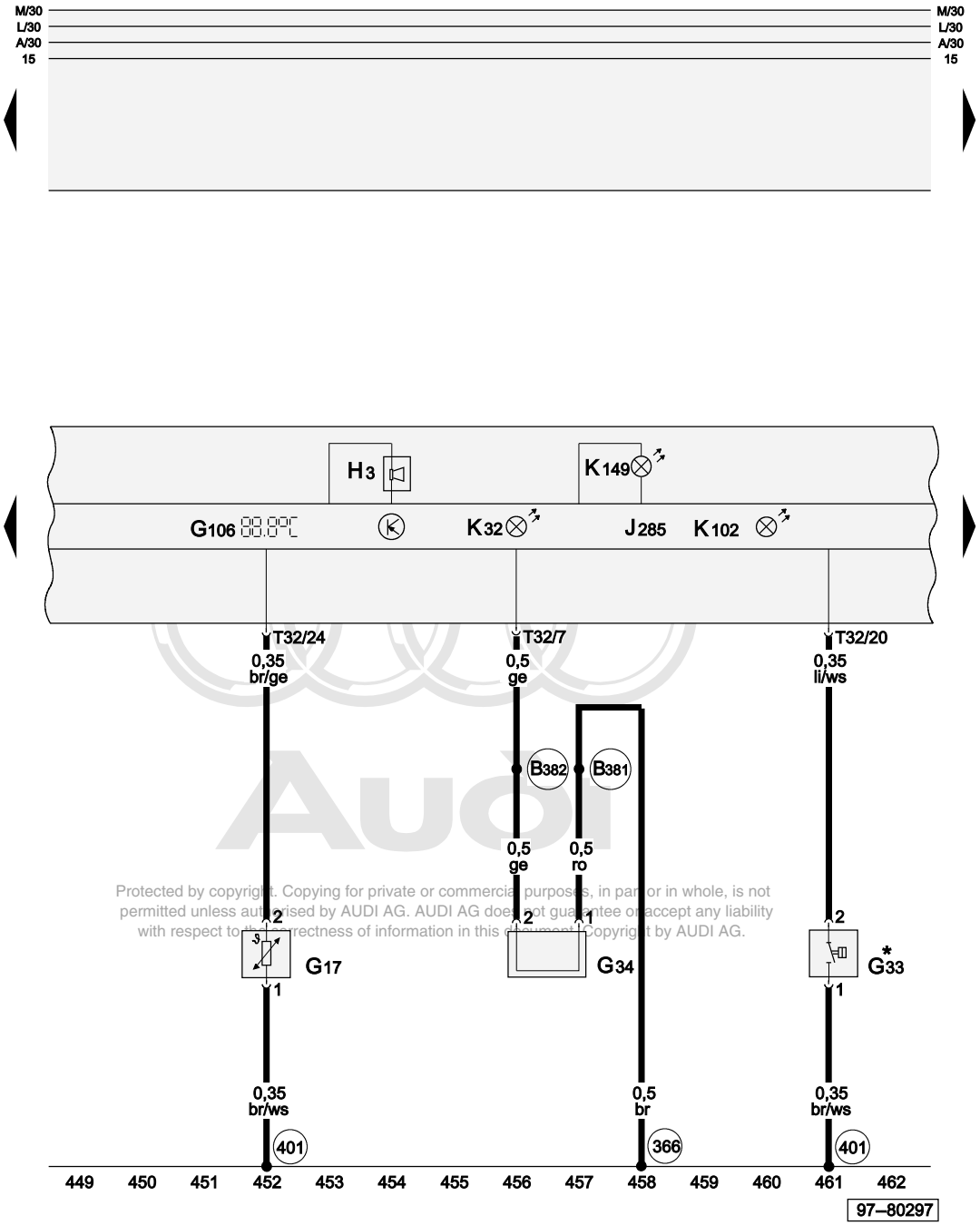


Oil pressure switch, coolant shortage indicator switch, brake fluid level warning contact, control unit with display in dash panel insert

F1	Oil pressure switch
F34	Brake fluid level warning contact
F66	Coolant shortage indicator switch
G1	Fuel gauge
J285	Control unit with display in dash panel insert
K3	Oil pressure warning lamp
K14	Handbrake warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature/coolant shortage warning lamp
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
(401)	Earth connection (sender earth), in interior wiring harness
*	for models with engine codes AXW, BAG only
**	for models with engine codes AZV, BKC, BKD, BGU only

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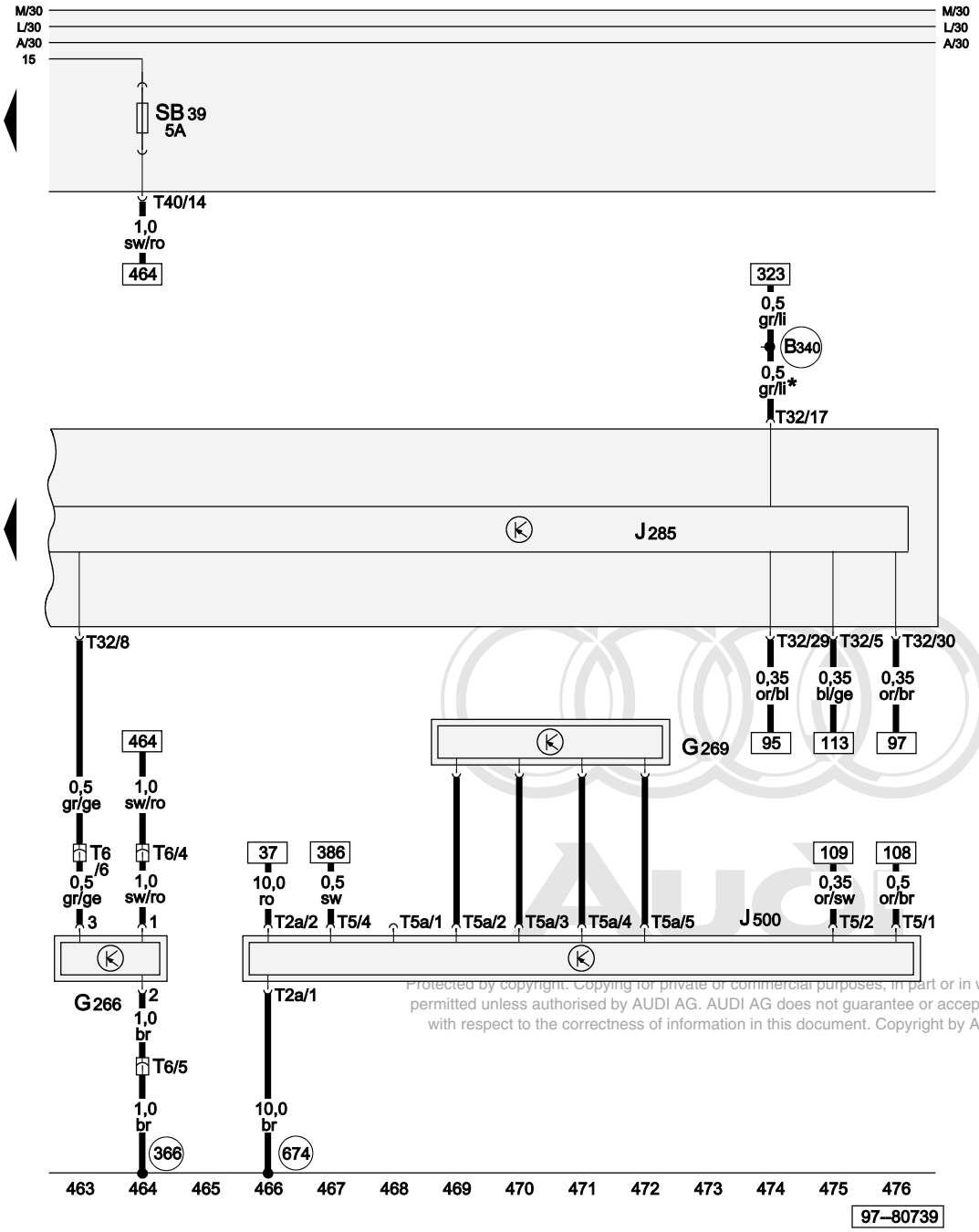


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Ambient temperature sensor, windscreen washer fluid level sender, front left brake pad wear sender, control unit in dash panel insert

G17	Ambient temperature sensor
G33	Windscreen washer fluid level sender
G34	Front left brake pad wear sender
G106	Ambient temperature indicator
H3	Buzzer and gong
J285	Control unit in dash panel insert
K32	Brake pad warning lamp
K102	Rear lid closed warning lamp
K149	Engine electronics warning lamp
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B381	Connection 3 (brake wear indicator), in main wiring harness
B382	Connection 4 (brake wear indicator), in main wiring harness
*	for models with windscreen washer fluid level sender/water level only

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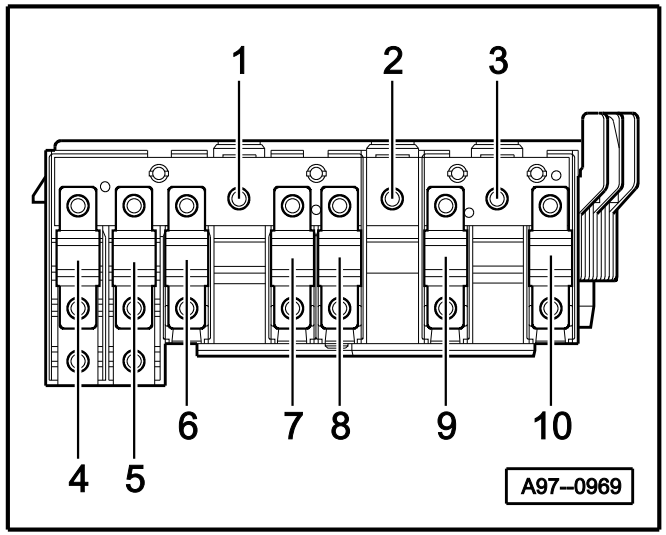
Oil level and oil temperature sender, control unit in dash panel insert, power steering control unit

G266	Oil level and oil temperature sender
G269	Steering moment sender
J285	Control unit in dash panel insert
J500	Power steering control unit
SB39	Fuse 39 on fuse holder B
T2a	2-pin connector, black (connector A)
T5	5-pin connector, white (connector C)
T5a	5-pin connector, black (connector B)
T6	6-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
674	Earth point 4, on front of left longitudinal member
B340	Connection 1 (58d), in main wiring harness
*	for models without air conditioning system and with automatic gearbox only

1.6 l - Fuel injection engine (75 kW - Simos - 4 cylinder), engine code BGU

from model year 2004

Main fuse holder, electronics box



- On electronics box, in engine compartment, front left

Main supply connection
2 - Screw connection M (terminal 30)

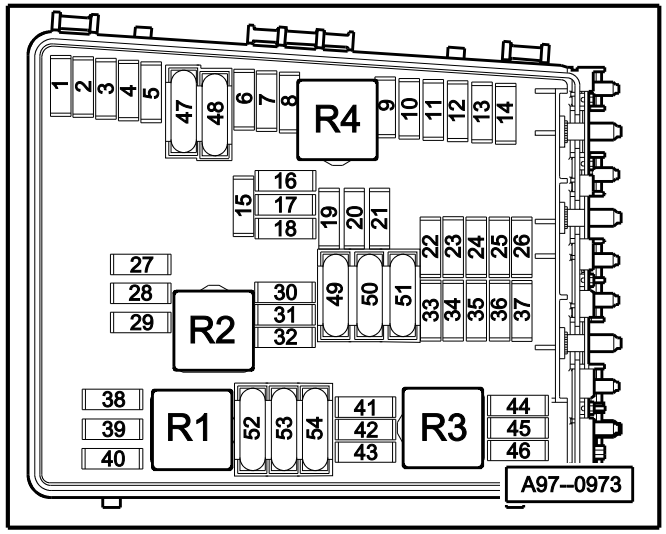
Fuse locations
4 - Fuse 1 on fuse holder/battery (SA1)
9 - Fuse 6 on fuse holder/battery (SA6)

Note:

- *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

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Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

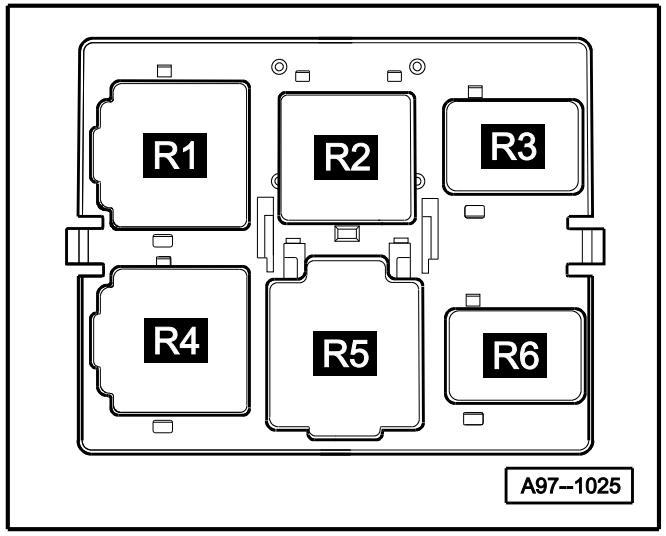
Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329
R2 - Terminal 50 voltage supply relay - J682
R3 - Fuel pump relay - J17
R4 - Current supply relay for Simos control unit - J363

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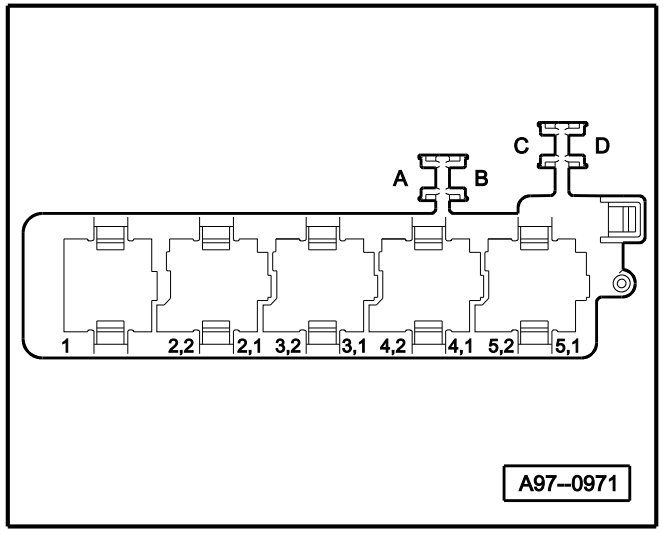
6-point relay carrier



- Under electronics box in engine compartment, left

Position of relays
R5 - Secondary air pump relay - J299

5-point relay carrier



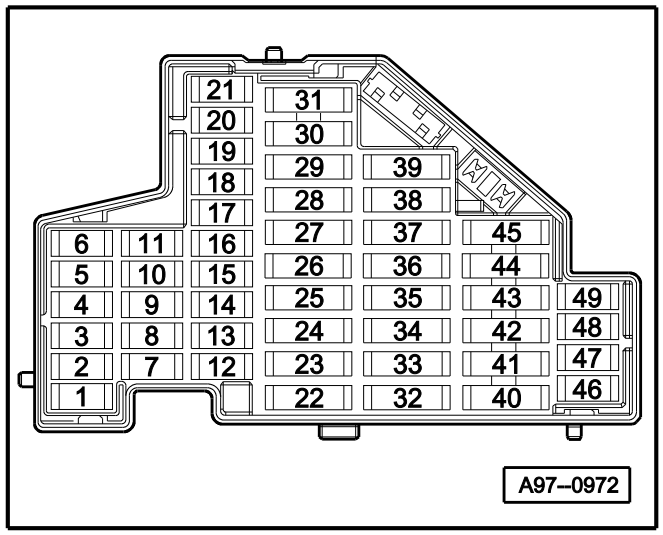
- Above the onboard power supply control unit, dash panel, driver side, bottom left

Position of relays

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2.1 - Electric fuel pump 2 relay - J49

Fuse holder



- Driver side dash panel

Fuse colours

15 A - blue
10 A - red
5 A - beige

Note:

- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

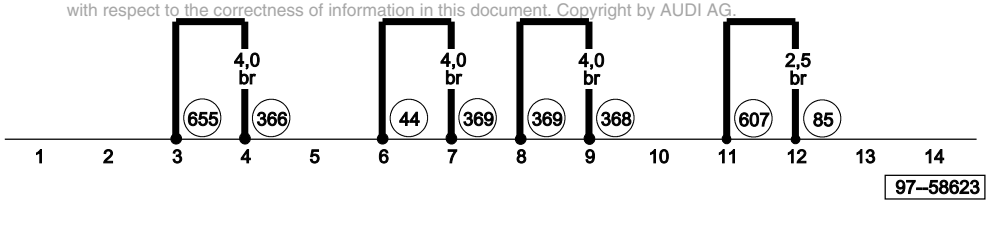
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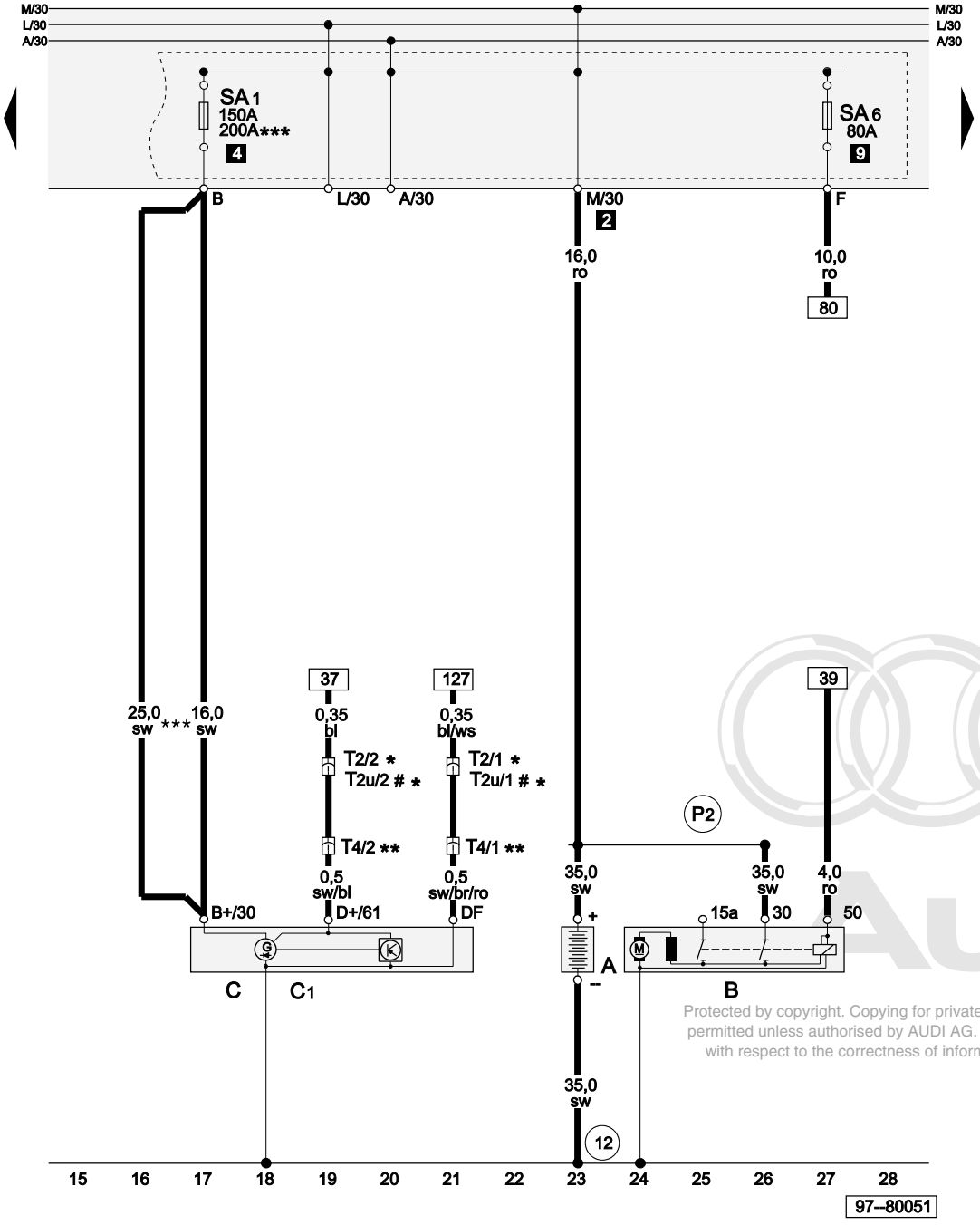
Earth points, earth connections

44	Earth point, lower part of left A-pillar
85	Earth connection -1-, in engine compartment wiring harness
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
607	Earth point, on left in plenum chamber
655	Earth point, on left headlight

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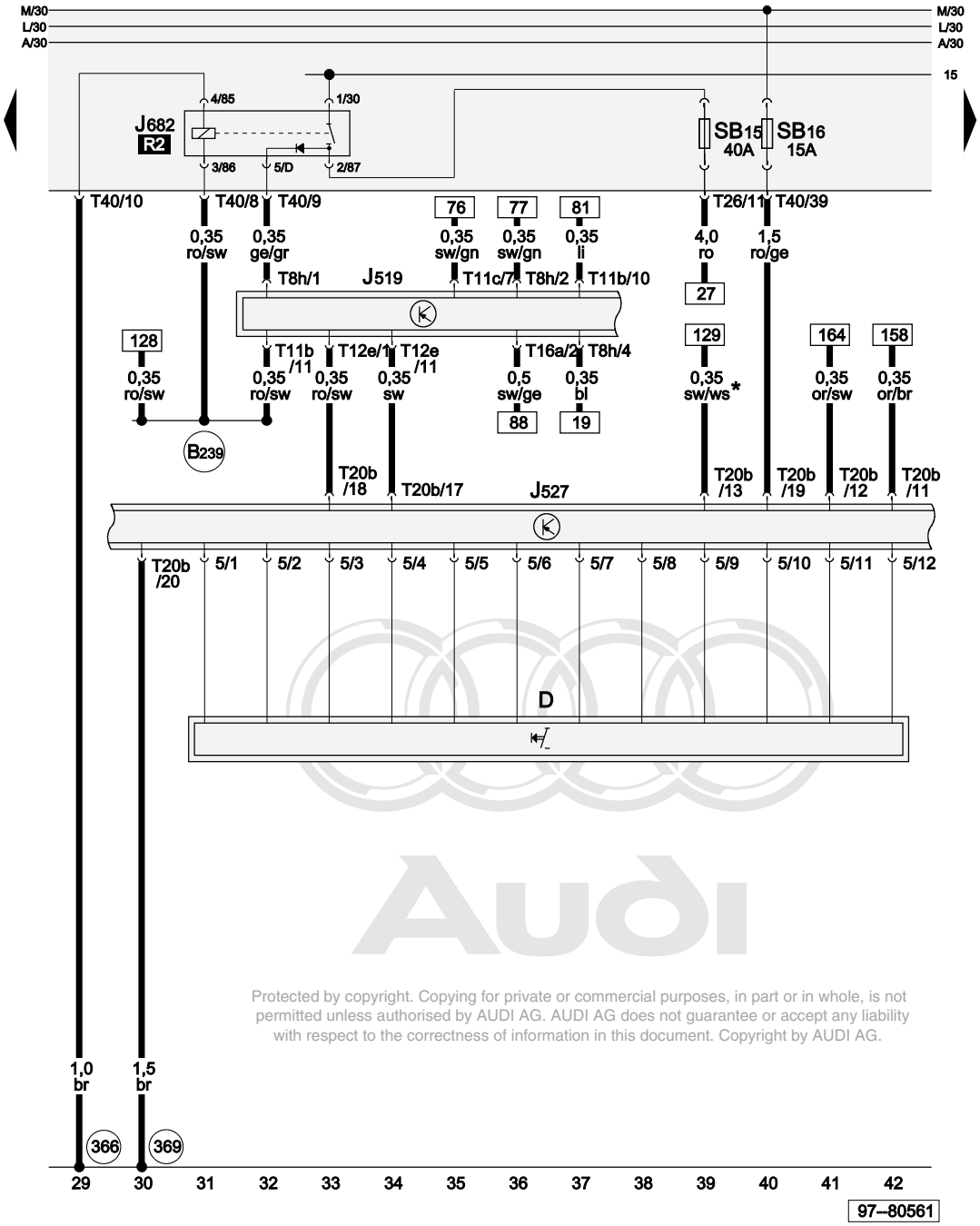


Battery, starter, alternator

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
SA1	Fuse 1 on fuse holder/battery
SA6	Fuse 6 on fuse holder/battery
T2	2-pin connector, black, in front left engine compartment
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
(12)	Earth point, on left in engine compartment
(P2)	Positive connection (30), in battery wiring harness
*	for models without air conditioning system only
**	for models with air conditioning system only
***	for models with alternator (140A) only
#	T2 is replaced by T2u, applicable from November 2003

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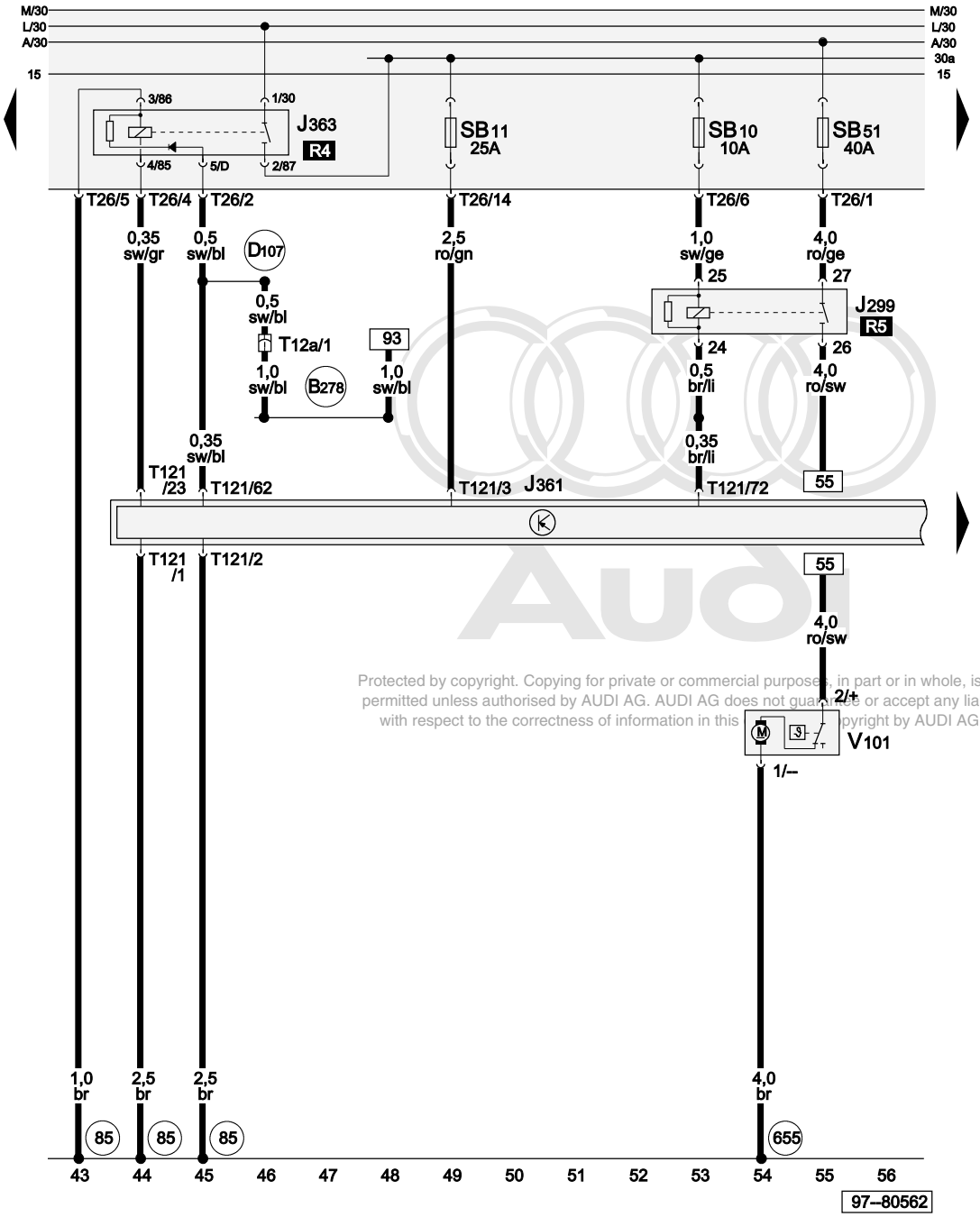


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Ignition/starter switch, onboard supply control unit, steering column electronics control unit, terminal 50 voltage supply relay

D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T12e	12-pin connector, black (connector G)
T16a	16-pin connector, black (connector E)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	for models with cruise control system only

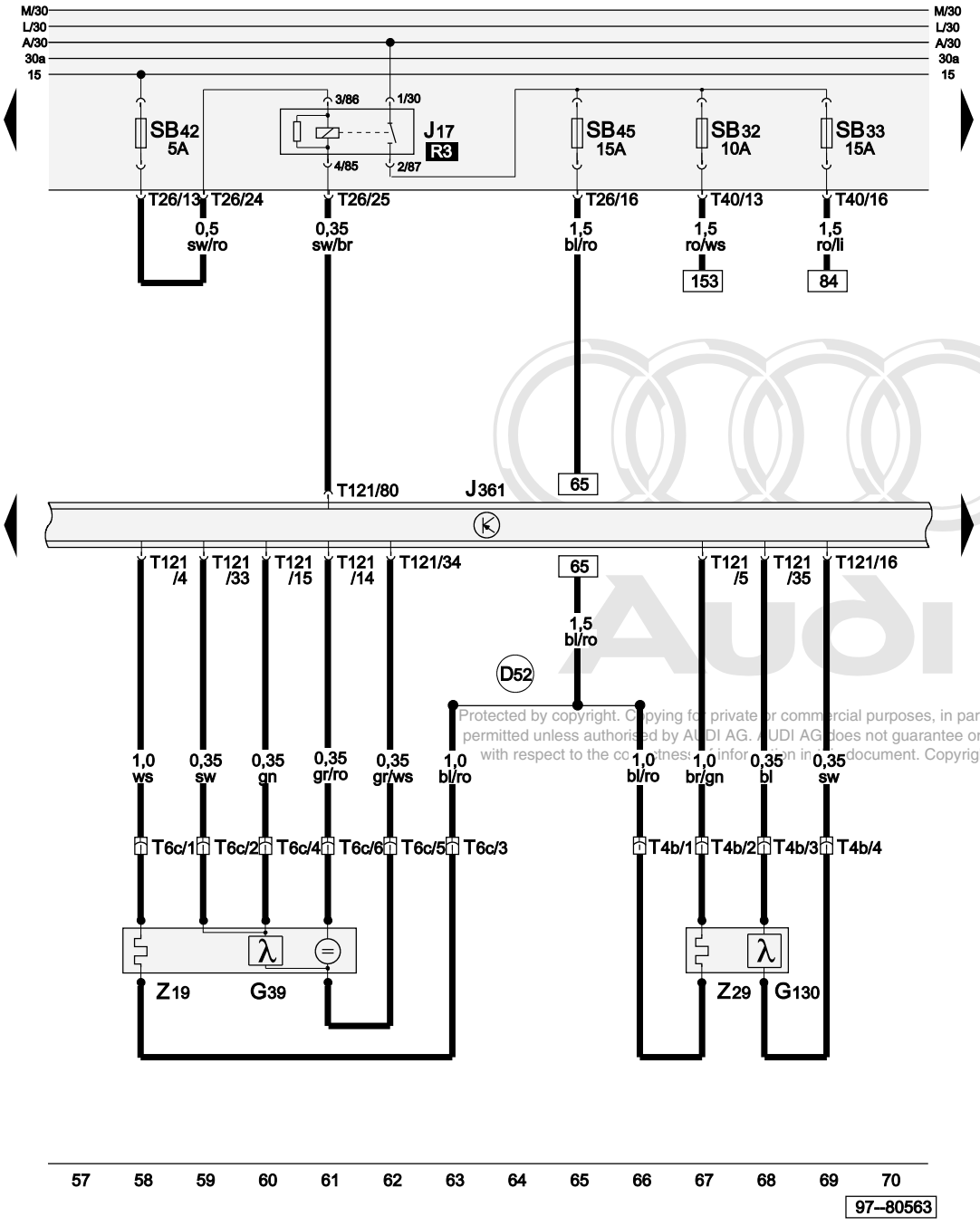


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Secondary air pump relay, simos control unit, current supply relay for Simos control unit, secondary air pump motor

J299	Secondary air pump relay
J361	Simos control unit
J363	Current supply relay for Simos control unit
SB10	Fuse 10 on fuse holder
SB11	Fuse 11 on fuse holder
SB51	Fuse 51 on fuse holder
T12a	12-pin connector, blue, in plenum chamber
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
V101	Secondary air pump motor
85	Earth connection 1, in engine compartment wiring harness
655	Earth point, on left headlight
B278	Positive connection 2 (15a), in main wiring harness
D107	Connection 5, in engine compartment wiring harness

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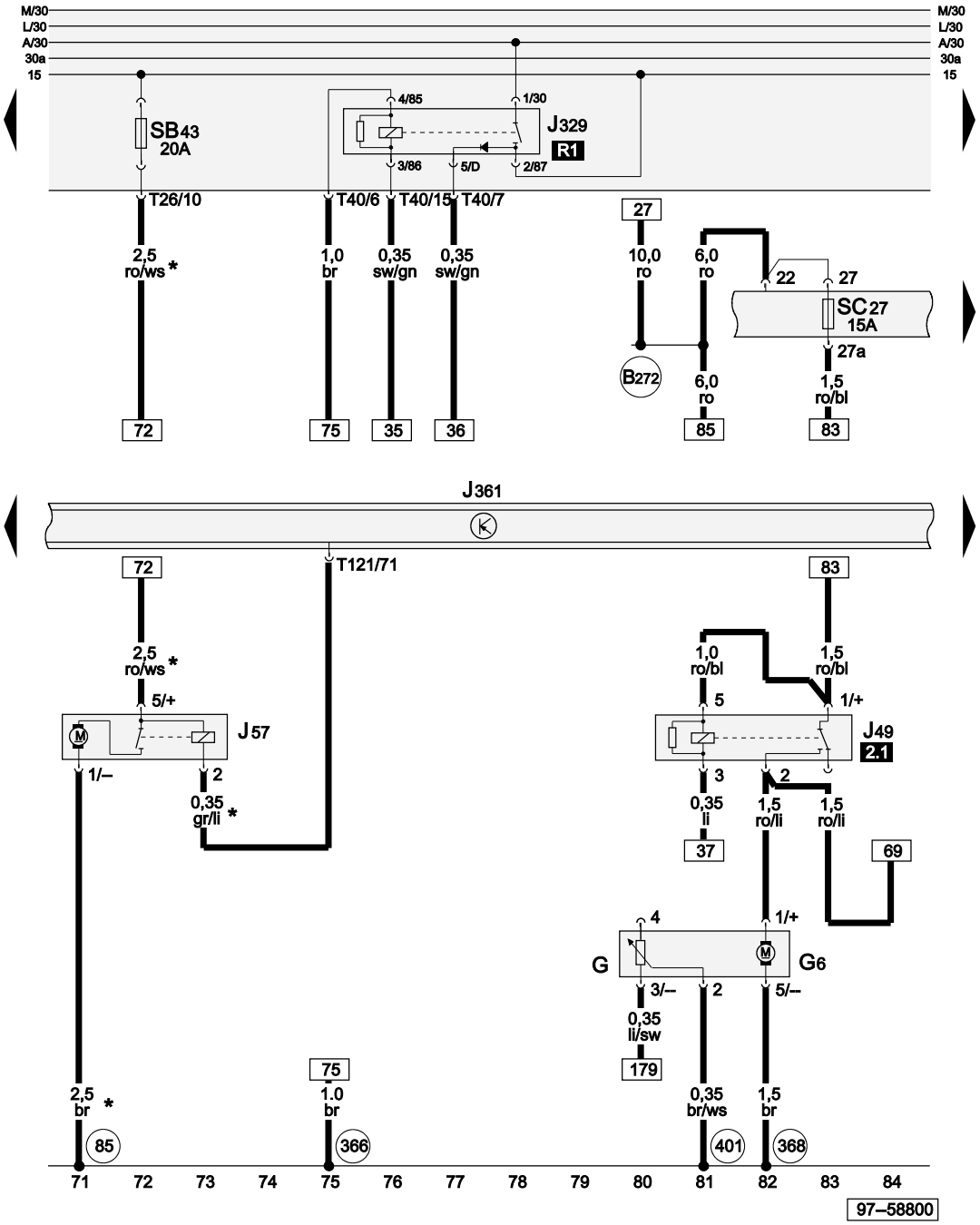


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Lambda probe, lambda probe after catalytic converter, electric fuel pump 2 relay, Simos control unit

G39	Lambda probe
G130	Lambda probe after catalytic converter
J17	Fuel pump relay
J361	Simos control unit
SB32	Fuse 32 on fuse holder
SB33	Fuse 33 on fuse holder
SB42	Fuse 42 on fuse holder
SB45	Fuse 45 on fuse holder
T4b	4-pin connector, black, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D52	Positive connection (15a), in engine compartment wiring harness

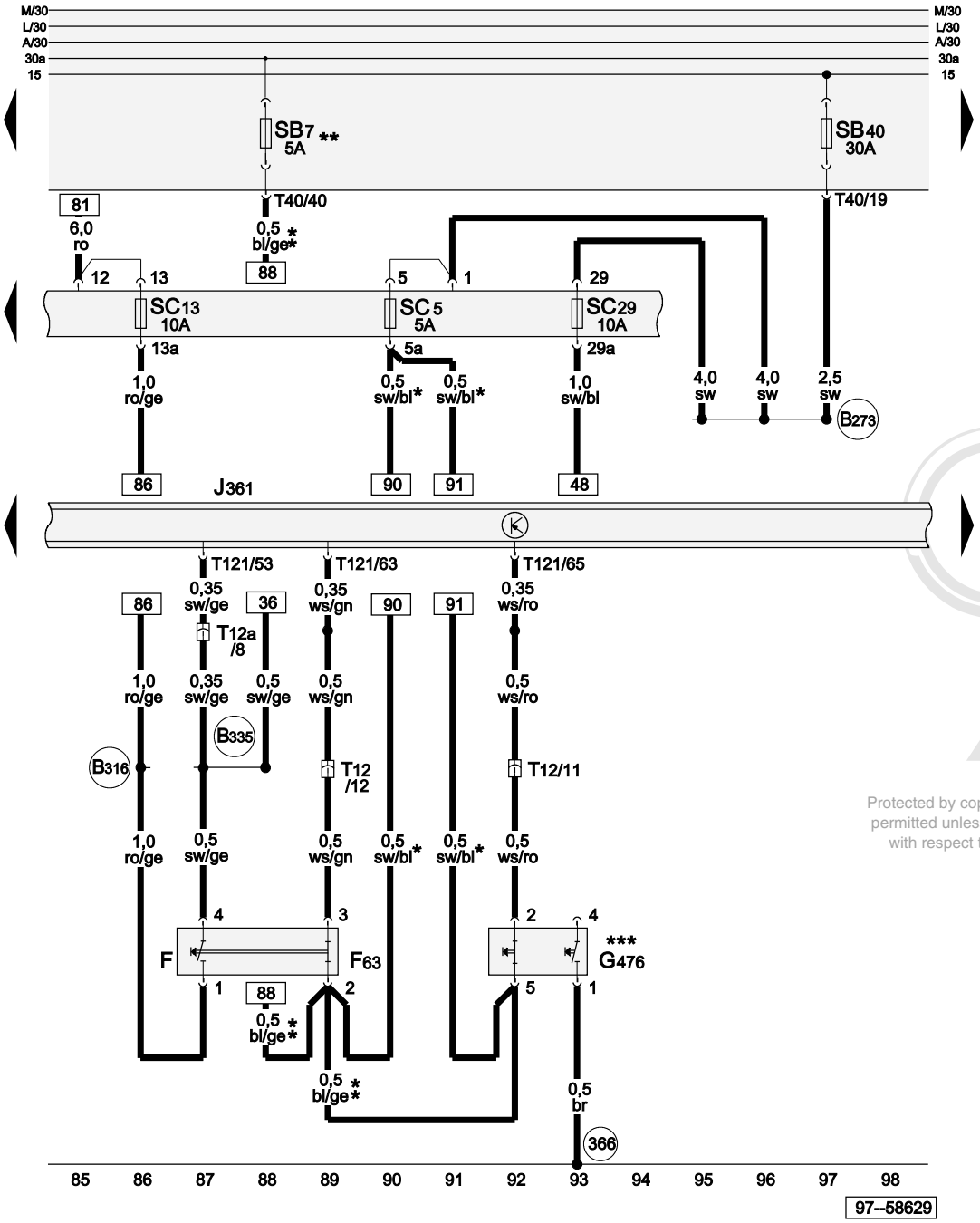


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Fuel system (pressurisation pump), fuel pump relay, vacuum pump relay, terminal 15 voltage supply relay

G	Fuel gauge sender
G6	Fuel pump (pre-supply pump)
J49	Electric fuel pump 2 relay
J57	Vacuum pump relay
J329	Terminal 15 voltage supply relay
J361	Simos control unit
SB43	Fuse 43 on fuse holder
SC27	Fuse 27 on fuse holder
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
85	Earth connection -1-, in engine compartment wiring harness
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
*	for models with automatic gearbox only

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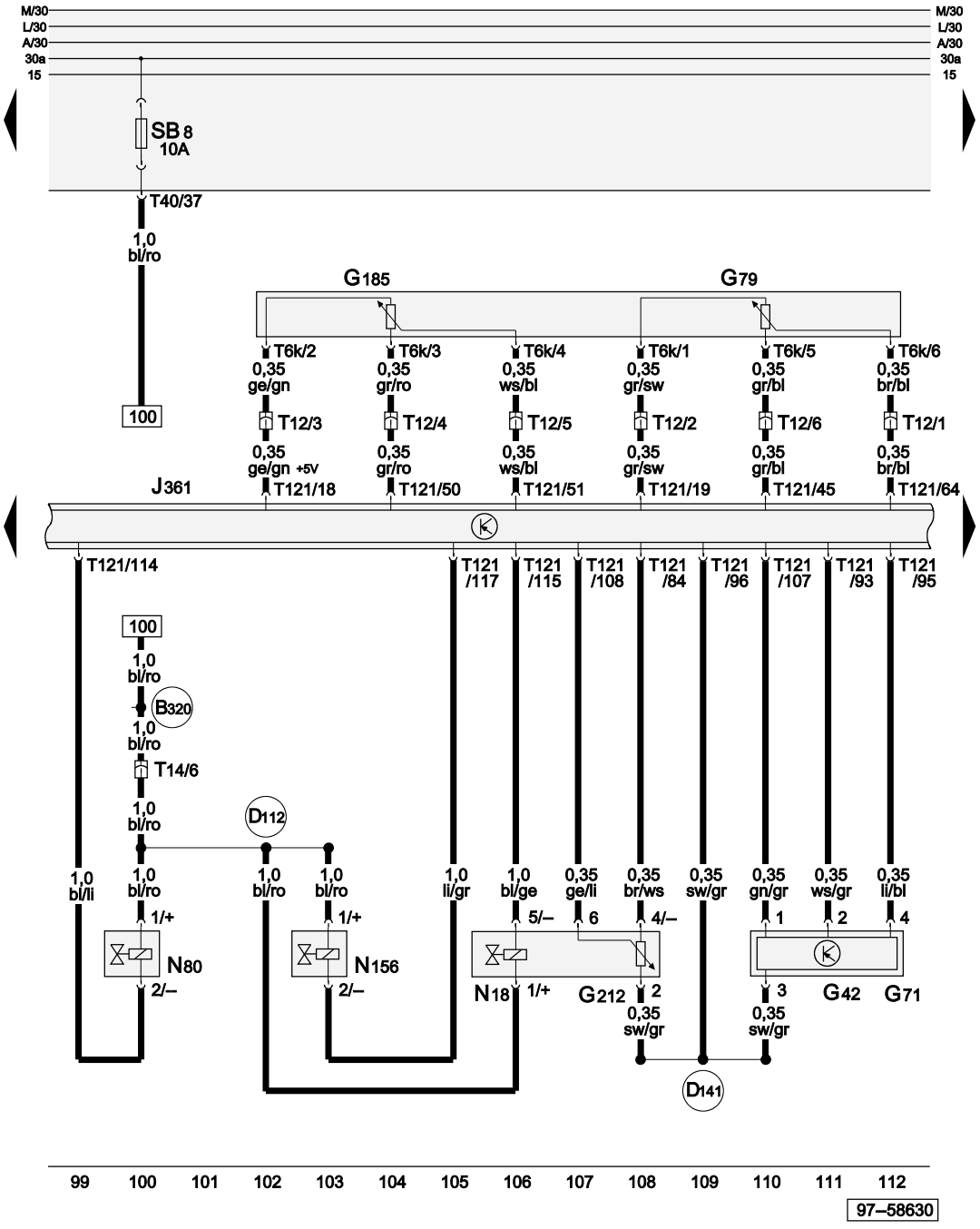


Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J361	Simos control unit
SB7	Fuse 7 on fuse holder
SB40	Fuse 40 on fuse holder
SC5	Fuse 5 on fuse holder
SC13	Fuse 13 on fuse holder
SC29	Fuse 29 von fuse holder
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
366	Earth connection 1, in main wiring harness
B273	Positive connection (15), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	From week 17/2003 no longer fitted
**	applicable from week 17/2003
***	for models with manual gearbox only

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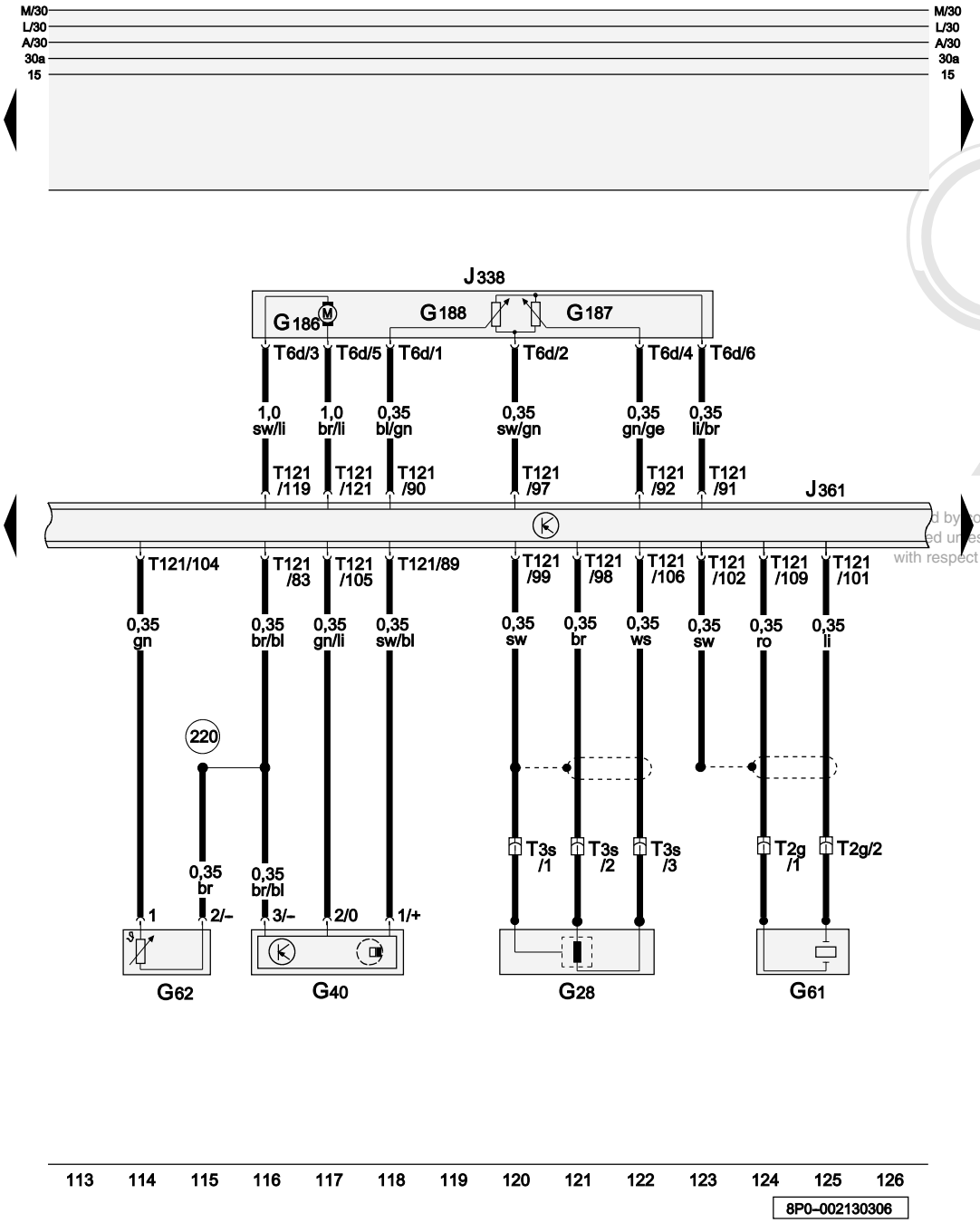


Accelerator position sender, exhaust gas recirculation valve, activated charcoal filter system solenoid valve 1, variable intake manifold change-over valve

G42	Intake air temperature sender
G71	Intake manifold pressure sender
G79	Accelerator position sender
G185	Accelerator position sender -2-
G212	Exhaust gas recirculation potentiometer
J361	Simos control unit
N18	Exhaust gas recirculation valve
N80	Activated charcoal filter system solenoid valve 1 (pulsed)
N156	Variable intake manifold change-over valve
SB8	Fuse 8 on fuse holder
T6k	6-pin connector, black, near accelerator position sender
T12	12-pin connector, green, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
B320	Positive connection 6 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness

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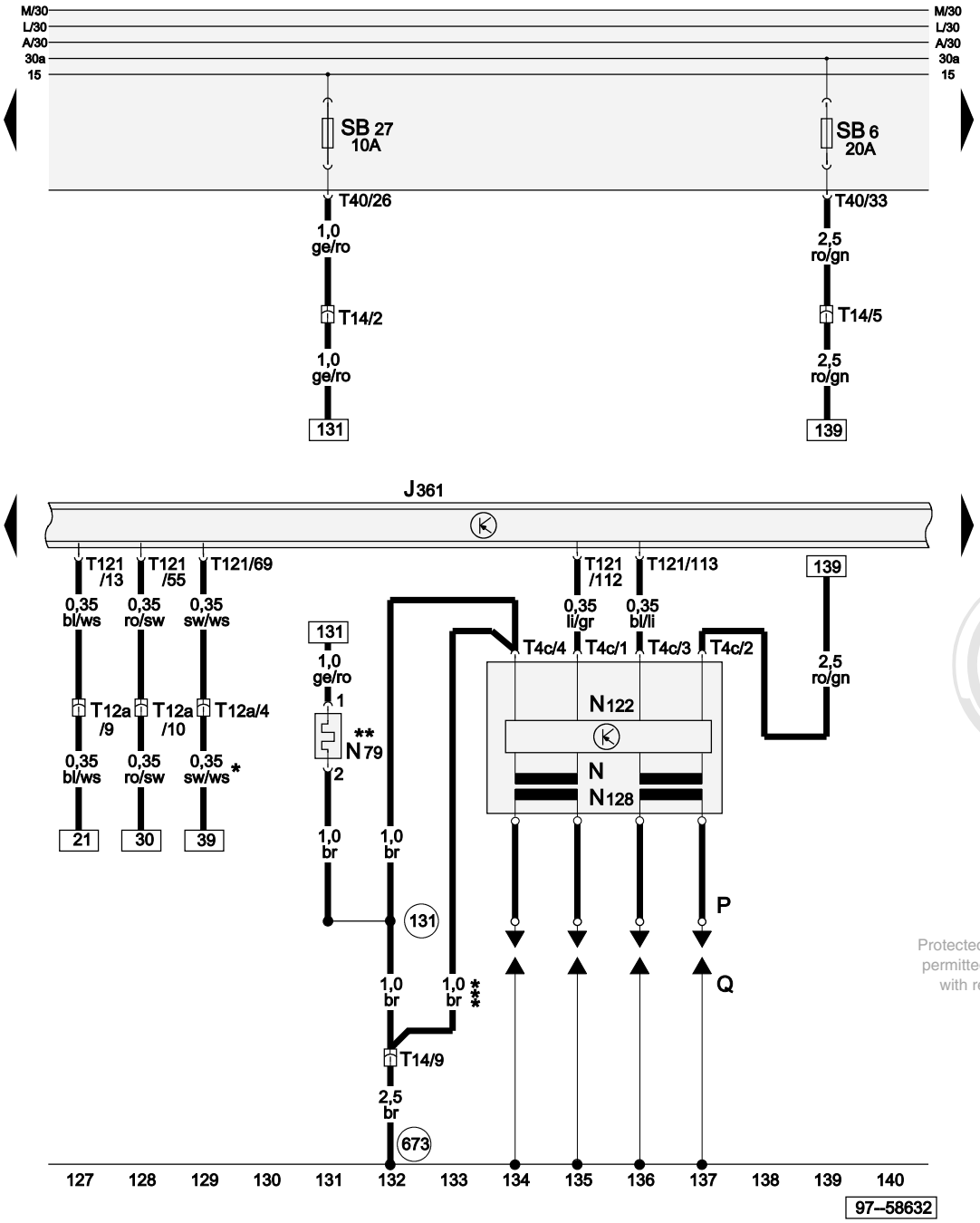
Engine speed sender, Hall sender, knock sensor 1, coolant temperature sender, throttle valve module

G28	Engine speed sender
G40	Hall sender
G61	Knock sensor 1
G62	Coolant temperature sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J361	Simos control unit
T2g	2-pin connector, black, in left engine compartment (knock sensor)
T3s	3-pin connector
T6d	6-pin connector, black, near throttle valve module
T121	121-pin connector, black, on engine control unit
220	Earth connection (sender earth), in engine wiring harness

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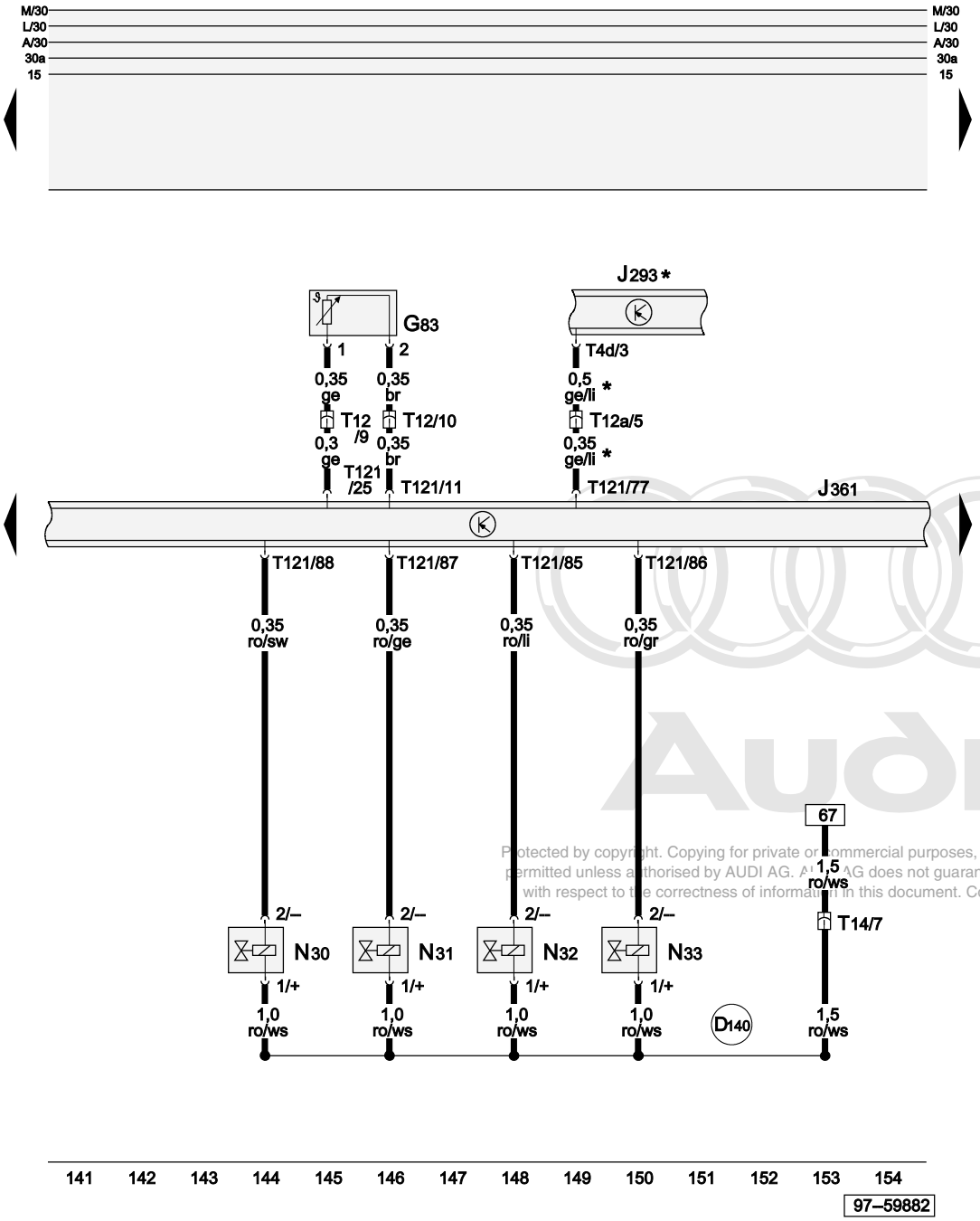


Simos control unit, ignition coil with output stage, heater element (crankcase breather)

J361	Simos control unit
N	Ignition coil 1 with output stage
N79	Heater element for crankcase breather
N122	Output stage
N128	Ignition coil 2
P	Spark plug connector
Q	Spark plugs
SB6	Fuse 6 on fuse holder
SB27	Fuse 27 on fuse holder
T4c	4-pin connector, black, on output stage
T12a	12-pin connector, blue, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
(131)	Earth connection -2-, in engine compartment wiring harness
(673)	Earth point 3, on front of left longitudinal member
*	for models with cruise control system only
**	for models with heater element only
***	for models without heater element only

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gn	=	green
bl	=	blue
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li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

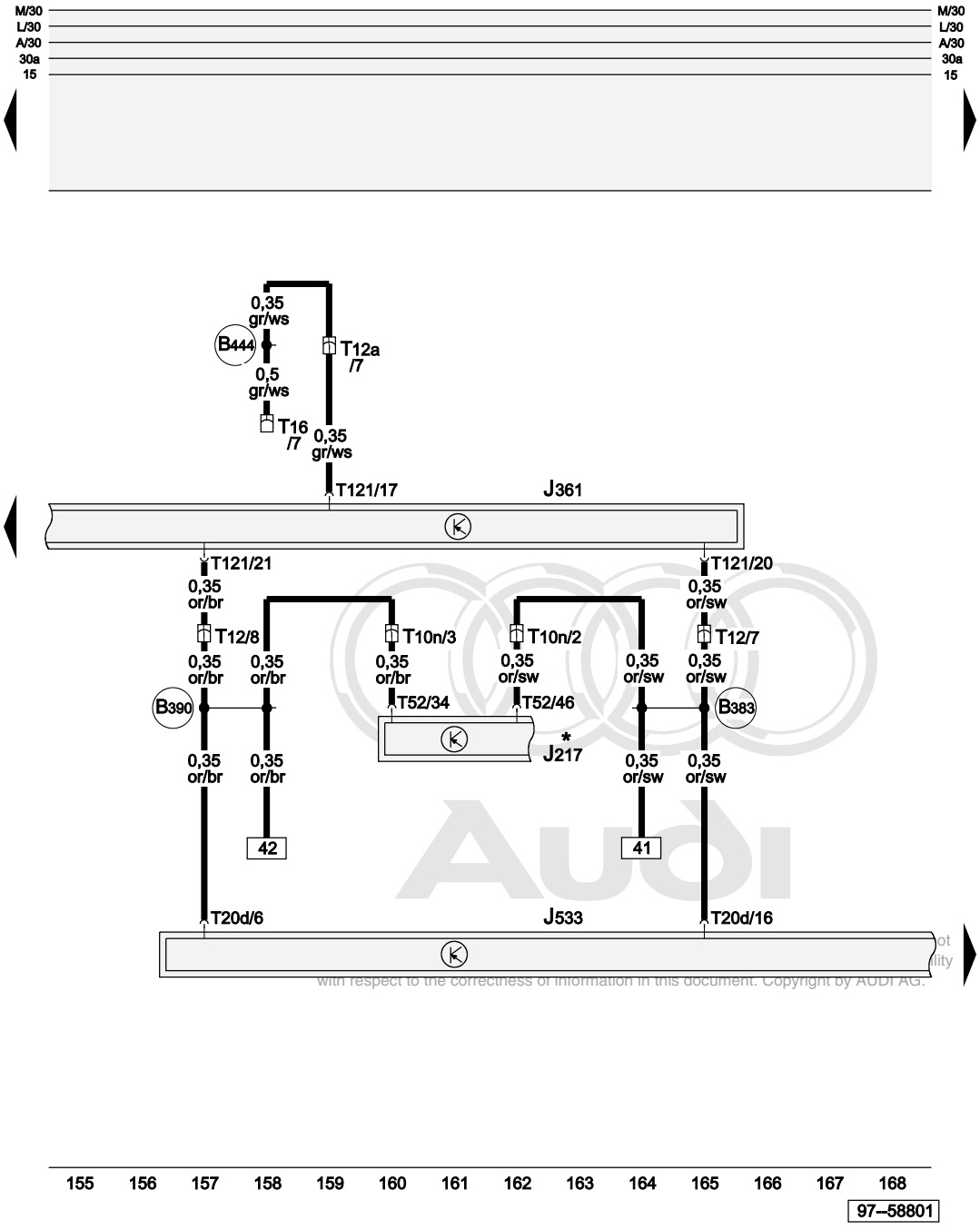


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Radiator outlet coolant temperature sender, radiator fan control unit, injectors

G83	Radiator outlet coolant temperature sender
J293	Radiator fan control unit
J361	Simos control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T4d	4-pin connector, black, on radiator fan (front end)
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T121	121-pin connector, black, on engine control unit
(D140)	Connection (injectors), in engine wiring harness
*	See applicable Current Flow Diagram: radiator fan

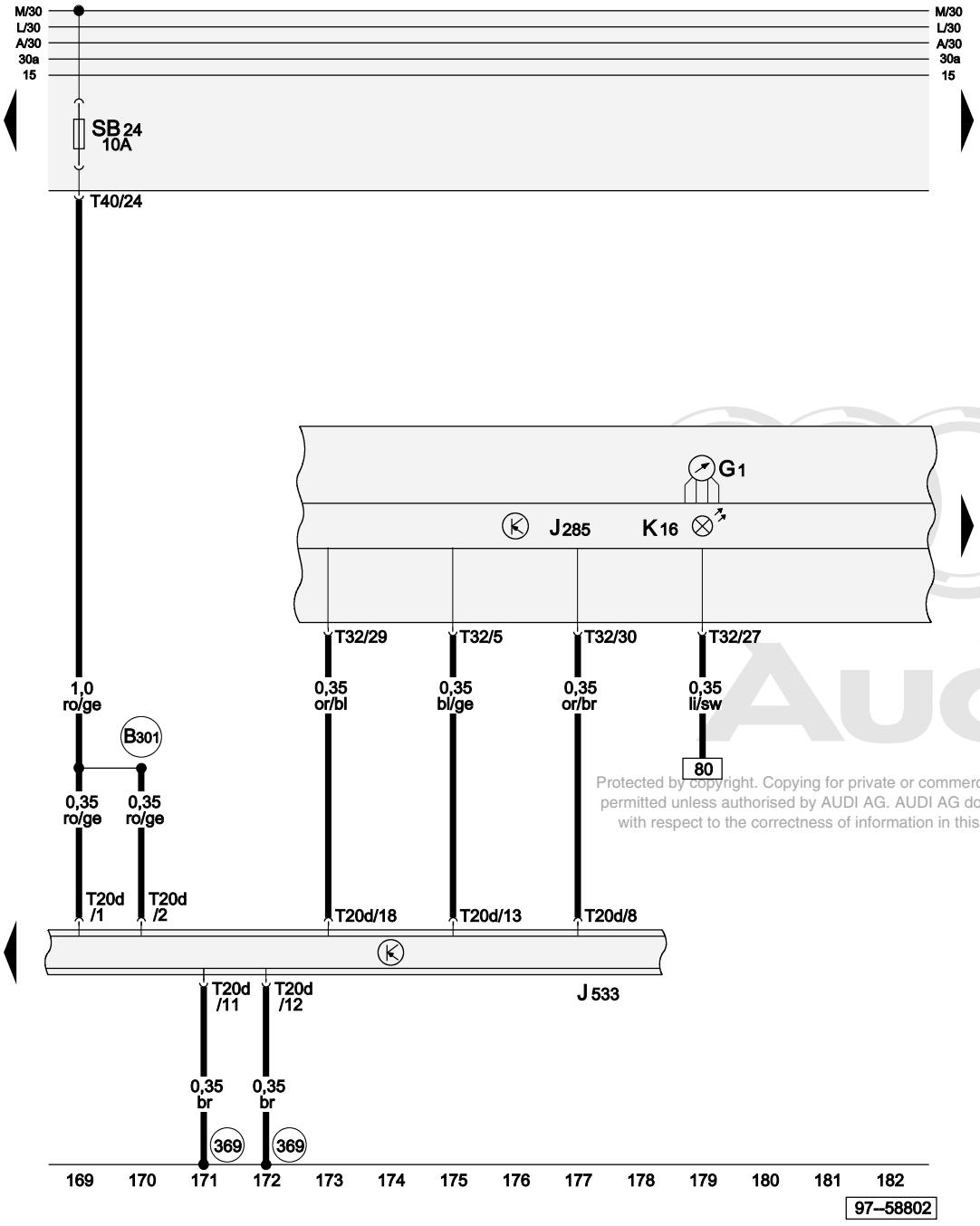


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Simos control unit, data bus diagnostic interface

J217	Automatic gearbox control unit
J361	Simos control unit
J533	Data bus diagnostic interface
T10n	10-pin connector, black, near longitudinal member, front left
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with automatic gearbox (09G) only

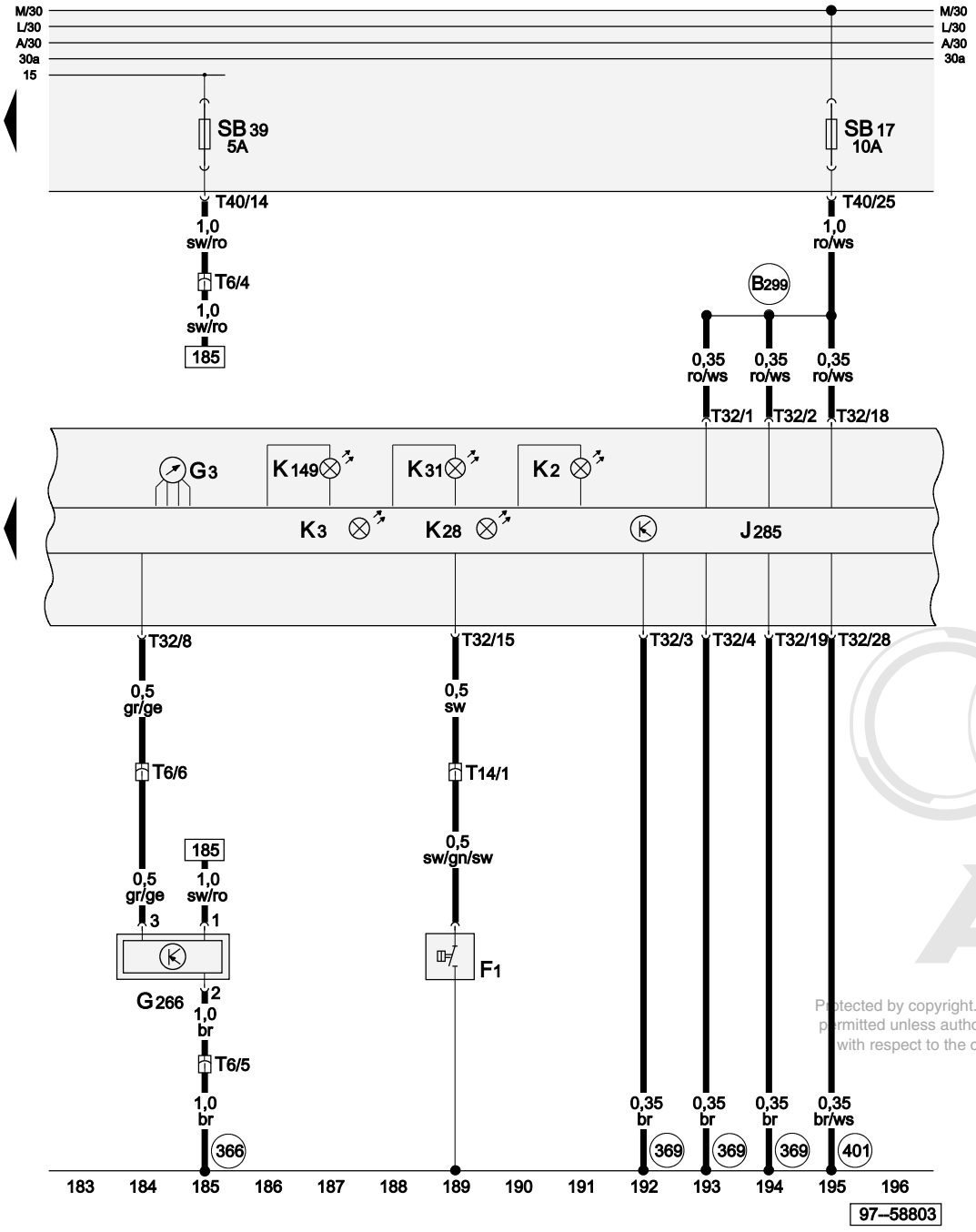


Data bus diagnostic interface, control unit with display in dash panel insert

G1	Fuel gauge
J285	Control unit with display in dash panel insert
J533	Data bus diagnostic interface
K16	Reserve fuel warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection -5- (30), in main wiring harness

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Oil pressure switch, coolant shortage indicator switch, oil level and oil temperature sender

F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit with display in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature/coolant shortage warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection -3- (30), in main wiring harness

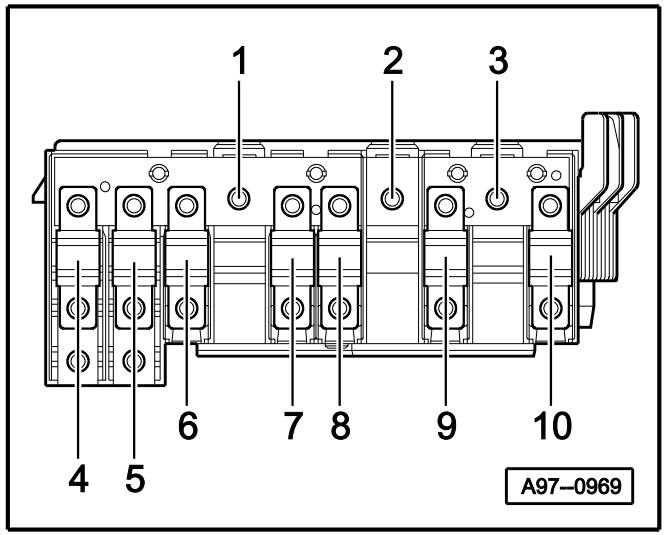
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2.0 l - Fuel injection engine (110 kW - FSI - 4 cylinder), engine code AXW

from model year 2004

Main fuse holder, electronics box



♦ On electronics box, in engine compartment, front left

Main supply connection
2 - Screw connection M (terminal 30)

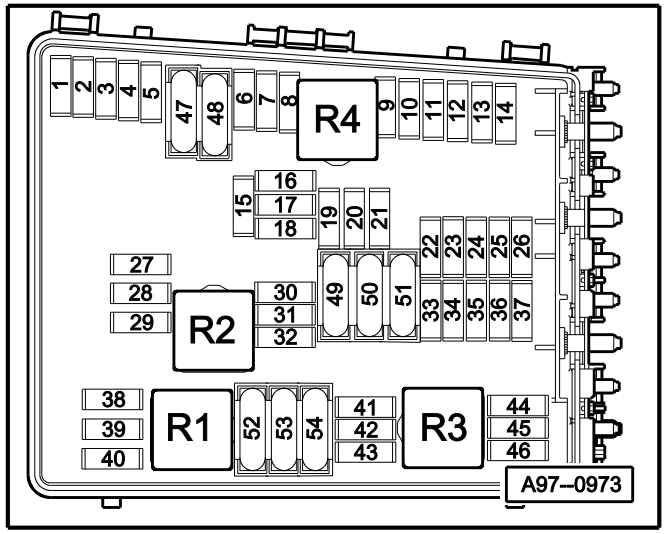
Fuse locations
4 - Fuse 1 on fuse holder/battery (SA1)
9 - Fuse 6 on fuse holder/battery (SA6)

Note:

♦ *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

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Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

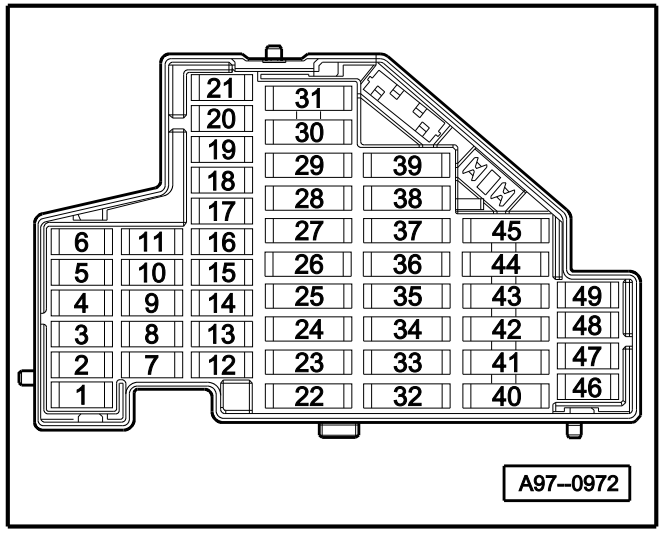
Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329
R2 - Terminal 50 voltage supply relay - J682
R4 - Motronic current supply relay - J271

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Fuse holder



- Driver side dash panel

Fuse colours

15 A - blue
10 A - red
5 A - beige

Note:

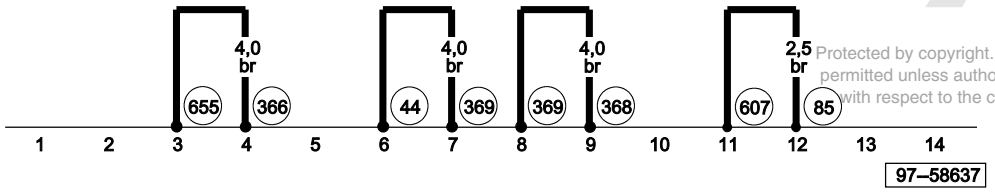
- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

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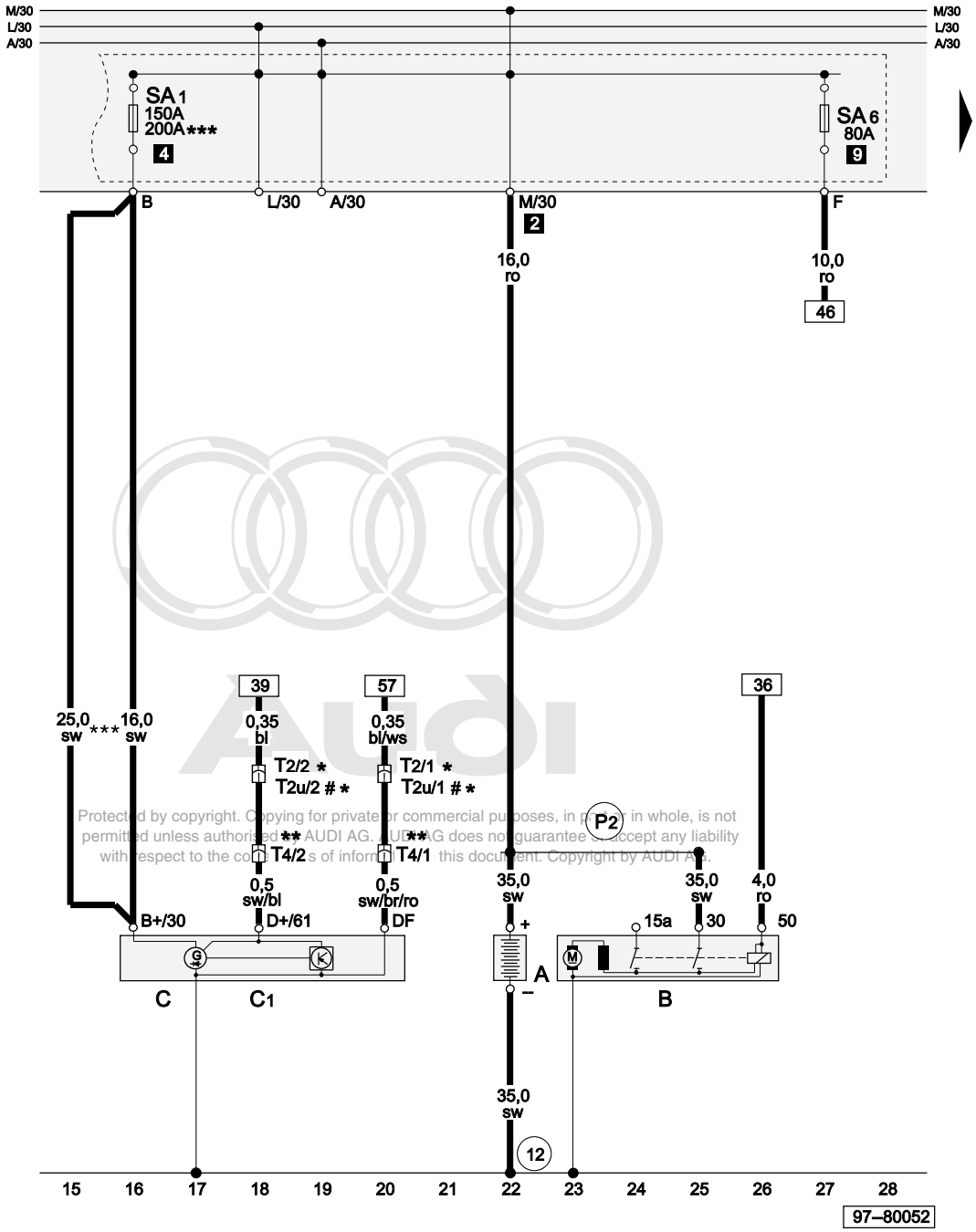
Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection -1-, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight



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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
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rs = pink

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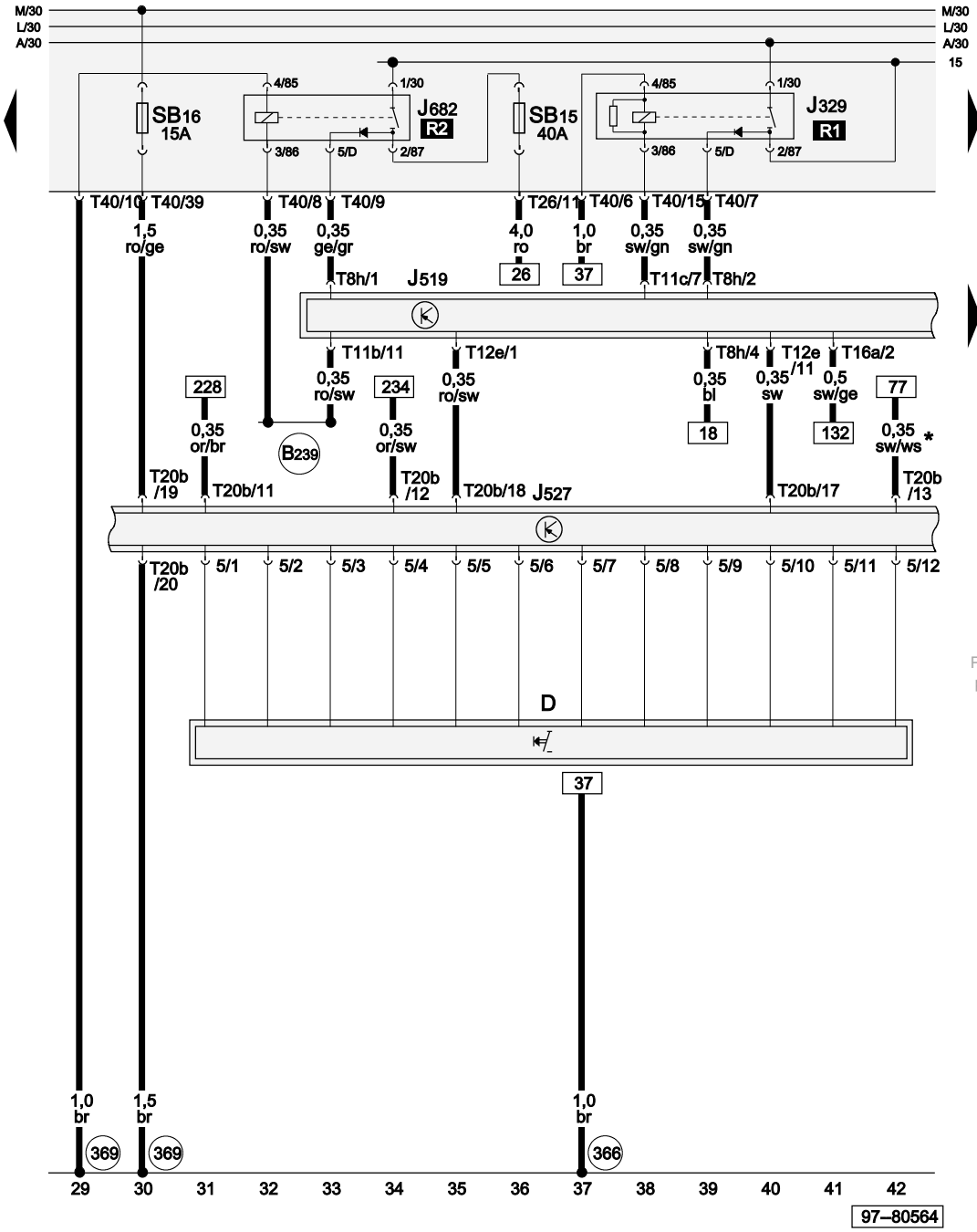


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Battery, starter, alternator

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
SA1	Fuse 1 on fuse holder/battery
SA6	Fuse 6 on fuse holder/battery
T2	2-pin connector, black, in front left engine compartment
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
(12)	Earth point, on left in engine compartment
(P2)	Positive connection (30), in battery wiring harness
*	for models without air conditioning system only
**	for models with air conditioning system only
***	for models with alternator (140A) only
#	T2 is replaced by T2u, applicable from November 2003

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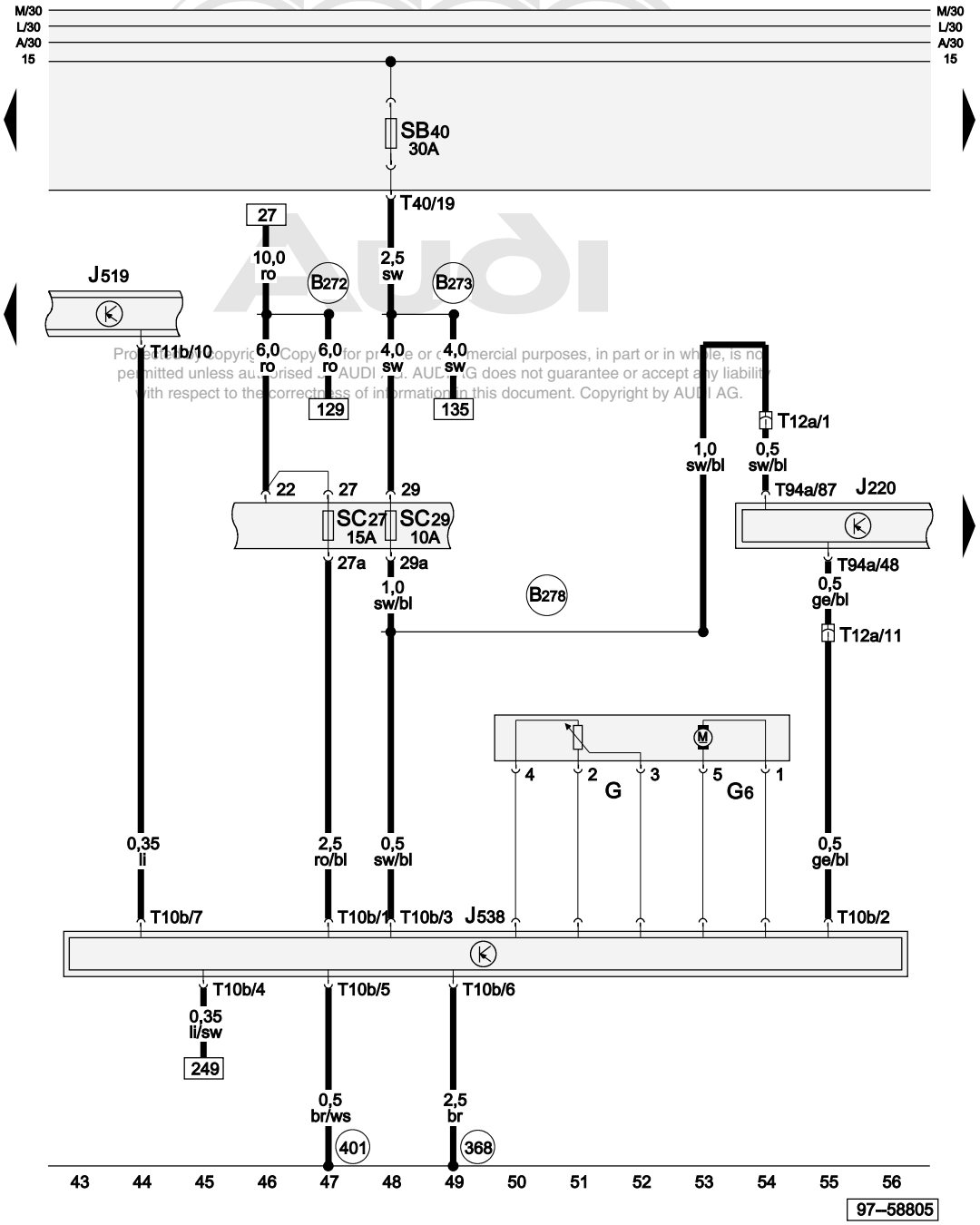


Terminal 15 voltage supply relay, onboard supply control unit, steering column electronics control unit, terminal 50 voltage supply relay

D	Ignition/starter switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T12e	12-pin connector, black (connector G)
T16a	16-pin connector, black (connector E)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	for models with cruise control system only

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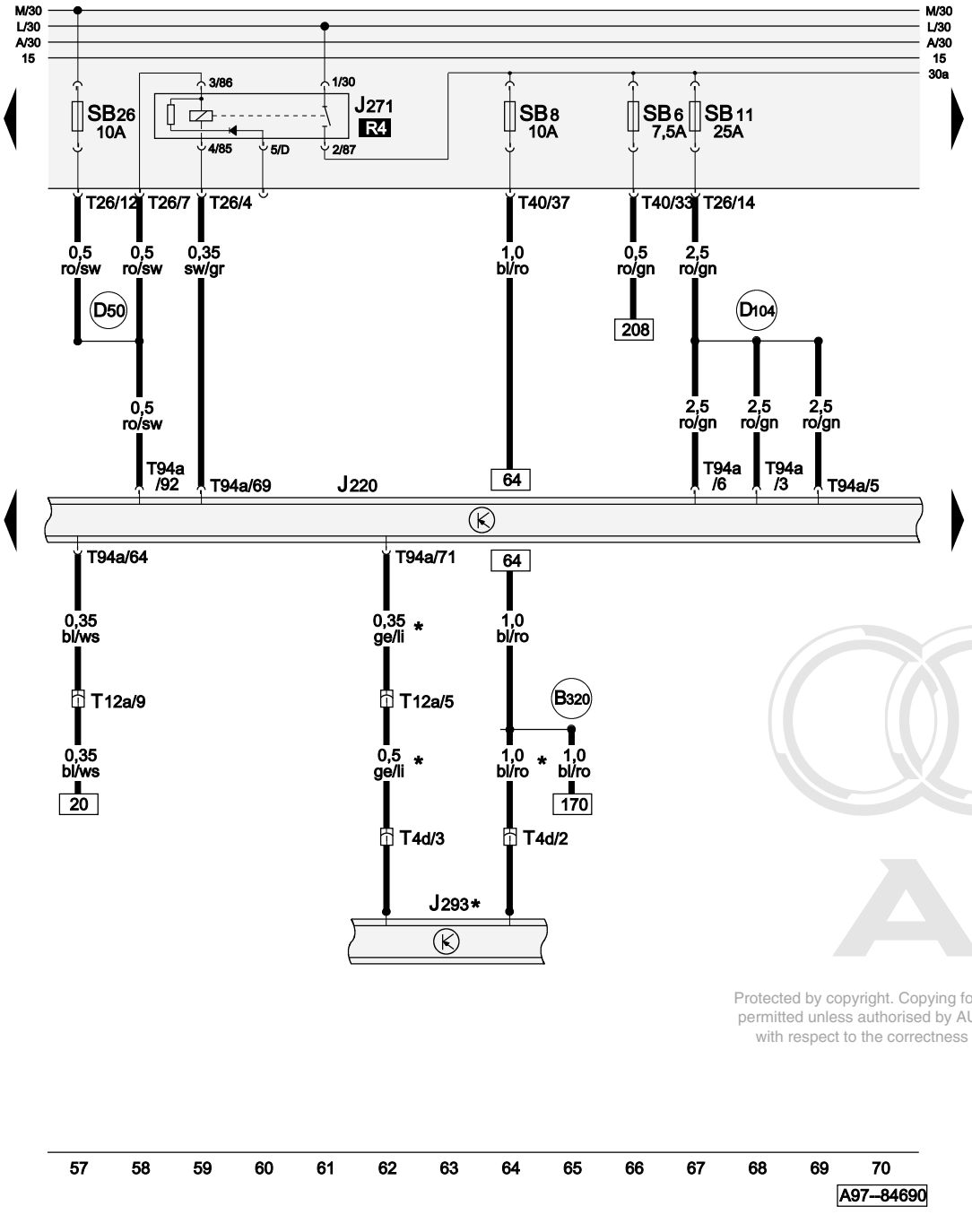


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Fuel system pressurisation pump, Motronic control unit, onboard supply control unit, fuel pump control unit

G	Fuel gauge sender
G6	Fuel pump (pre-supply pump)
J220	Motronic control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
SB40	Fuse 40 on fuse holder
SC27	Fuse 27 on fuse holder
SC29	Fuse 29 von fuse holder
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T12a	12-pin connector, blue, in plenum chamber
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T94a	94-pin connector, black (connector B)
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness

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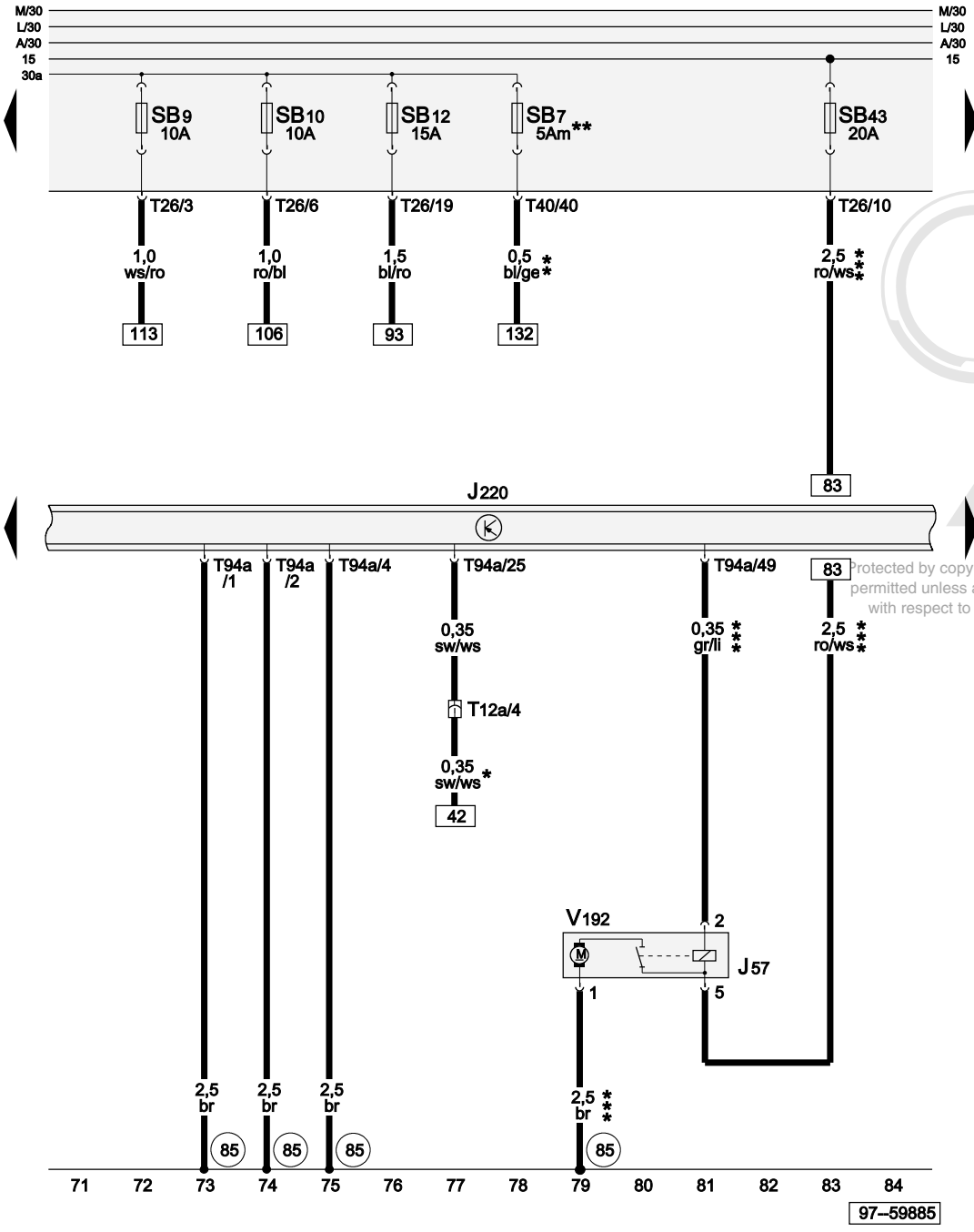


Motronic control unit, Motronic current supply relay, radiator fan control unit

J220	Motronic control unit
J271	Motronic current supply relay
J293	Radiator fan control unit
SB6	Fuse 6 on fuse holder
SB8	Fuse 8 on fuse holder
SB11	Fuse 11 on fuse holder
SB26	Fuse 26 on fuse holder
T4d	4-pin connector, black, on radiator fan (front end)
T12a	12-pin connector, blue, in plenum chamber
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T94a	94-pin connector, black (connector B)
B320	Positive connection 6 (30a), in main wiring harness
D50	Positive connection (30), in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
*	See applicable Current Flow Diagram: radiator fan

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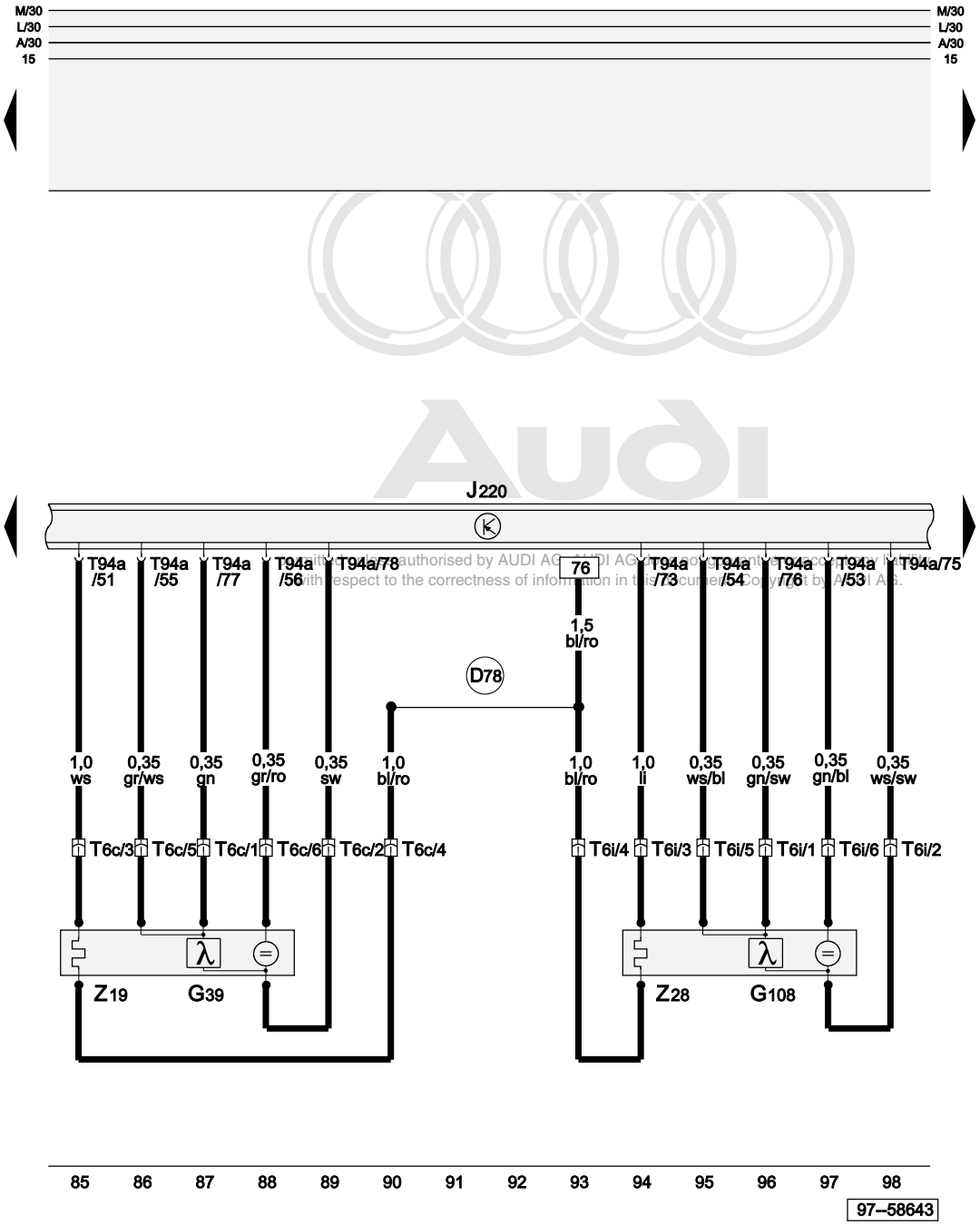


Vacuum pump relay, Motronic control unit, fuse on fuse holder

J57	Vacuum pump relay
J220	Motronic control unit
SB7	Fuse 7 on fuse holder
SB9	Fuse 9 on fuse holder
SB10	Fuse 10 on fuse holder
SB12	Fuse 12 on fuse holder
SB43	Fuse 43 on fuse holder
T12a	12-pin connector, blue, in plenum chamber
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T94a	94-pin connector, black (connector B)
V192	Vacuum pump for brakes
85	Earth connection -1-, in engine compartment wiring harness
*	for models with cruise control system only
**	applicable from week 17/2003
***	for models with automatic gearbox only

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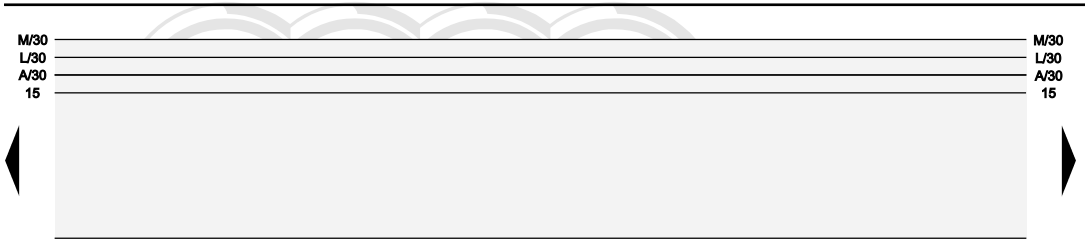


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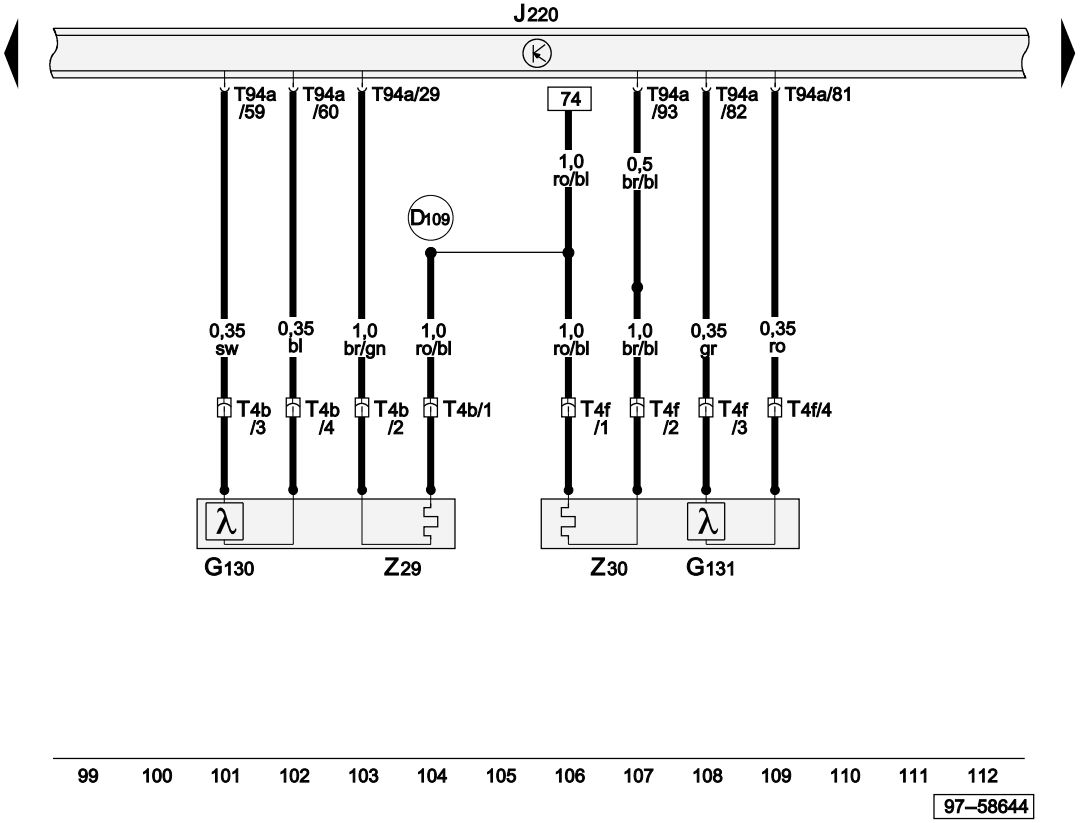
Lambda probe, lambda probe 2, Motronic control unit

G39	Lambda probe
G108	Lambda probe 2
J220	Motronic control unit
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T6i	6-pin connector, brown, on lambda probe 2 upstream of catalytic converter
T94a	94-pin connector, black (connector B)
Z19	Lambda probe heater
Z28	Lambda probe 2 heater
D78	Positive connection 1 (30a), in engine compartment wiring harness

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sw	=	black
ro	=	red
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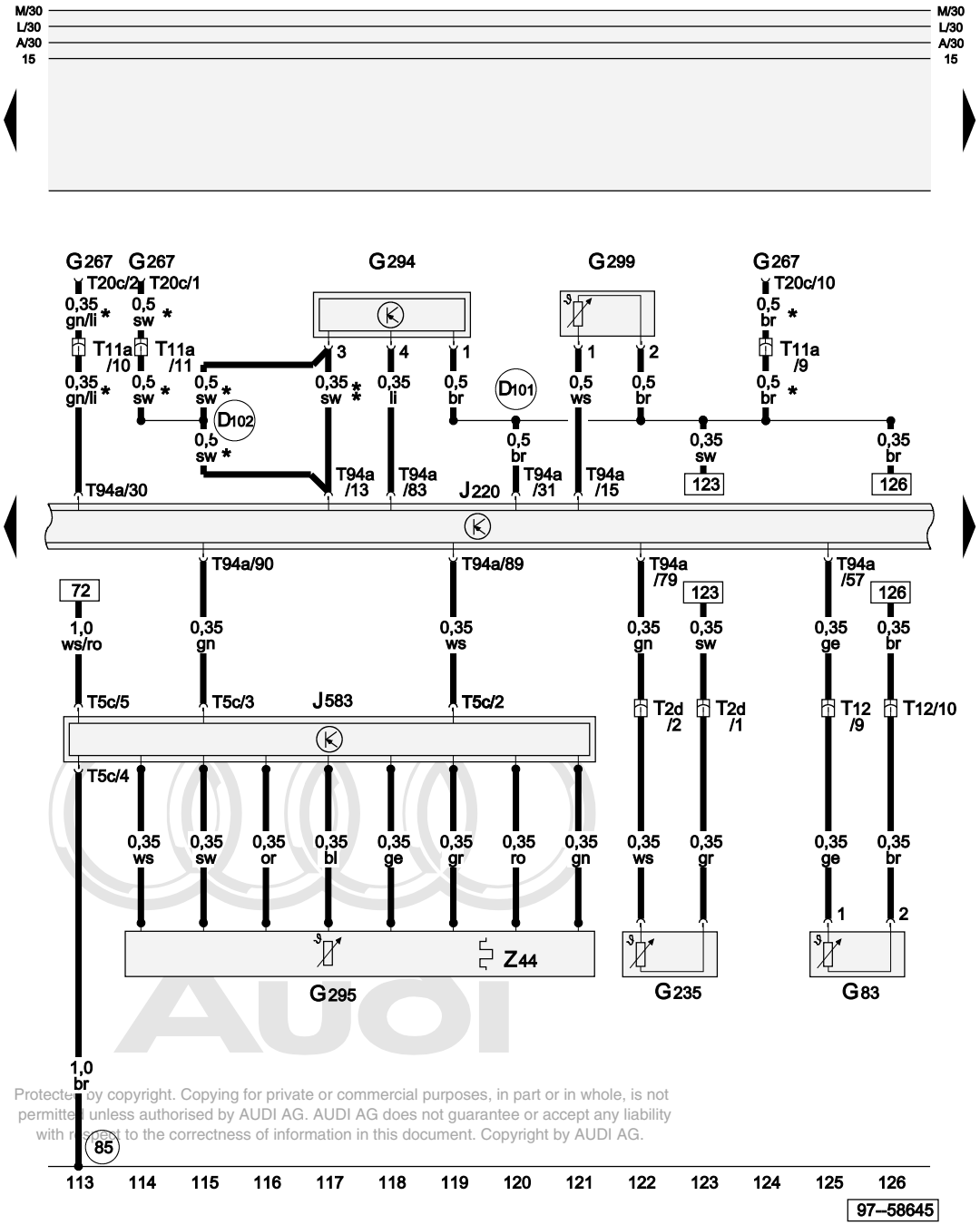
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Lambda probe after catalytic converter, lambda probe 2 after catalytic converter

G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
J220	Motronic control unit
T4b	4-pin connector, black, on lambda probe after catalytic converter
T4f	4-pin connector, brown, on lambda probe 2 after catalytic converter
T94a	94-pin connector, black (connector B)
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
(D109)	Connection 7, in engine compartment wiring harness

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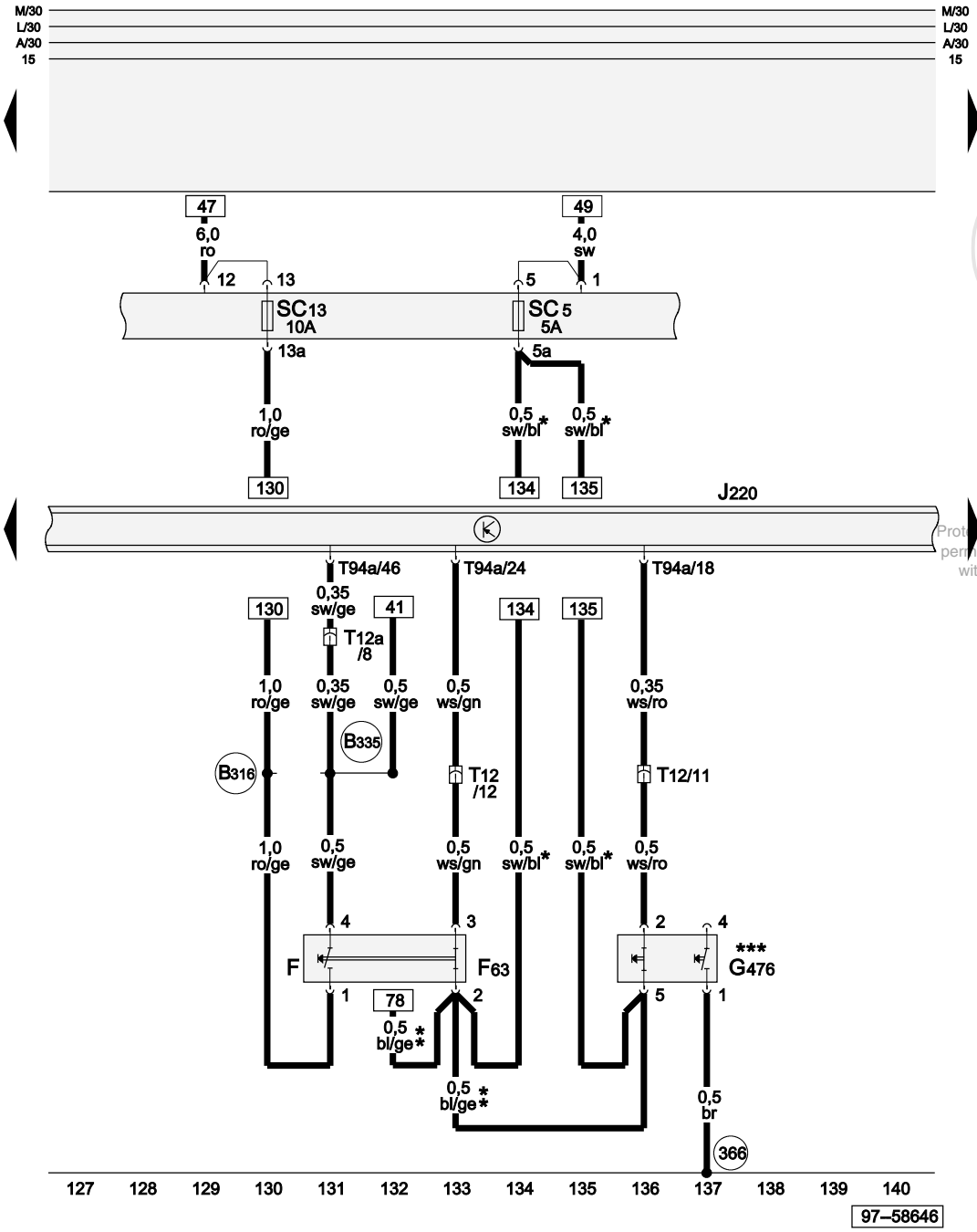


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Exhaust gas temperature sender 1, brake servo sender, NOx sensor control unit

G83	Radiator outlet coolant temperature sender
G235	Exhaust gas temperature sender 1
G267	Potentiometer, temperature selection rotary knob
G294	Brake servo pressure sensor
G295	NOx sender
G299	Intake air temperature sender 2
J220	Motronic control unit
J583	NOx sensor control unit
T2d	2-pin connector, black, on exhaust gas temperature sender 1
T5c	5-pin connector, black, on NOx sensor control unit
T11a	11-pin connector, red, in plenum chamber
T12	12-pin connector, green, in plenum chamber
T20c	20-pin connector, black, near heater operating unit
T94a	94-pin connector, black (connector B)
Z44	NOx sender heater
85	Earth connection -1-, in engine compartment wiring harness
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness
*	for models without air conditioning system only
**	for models with air conditioning system only

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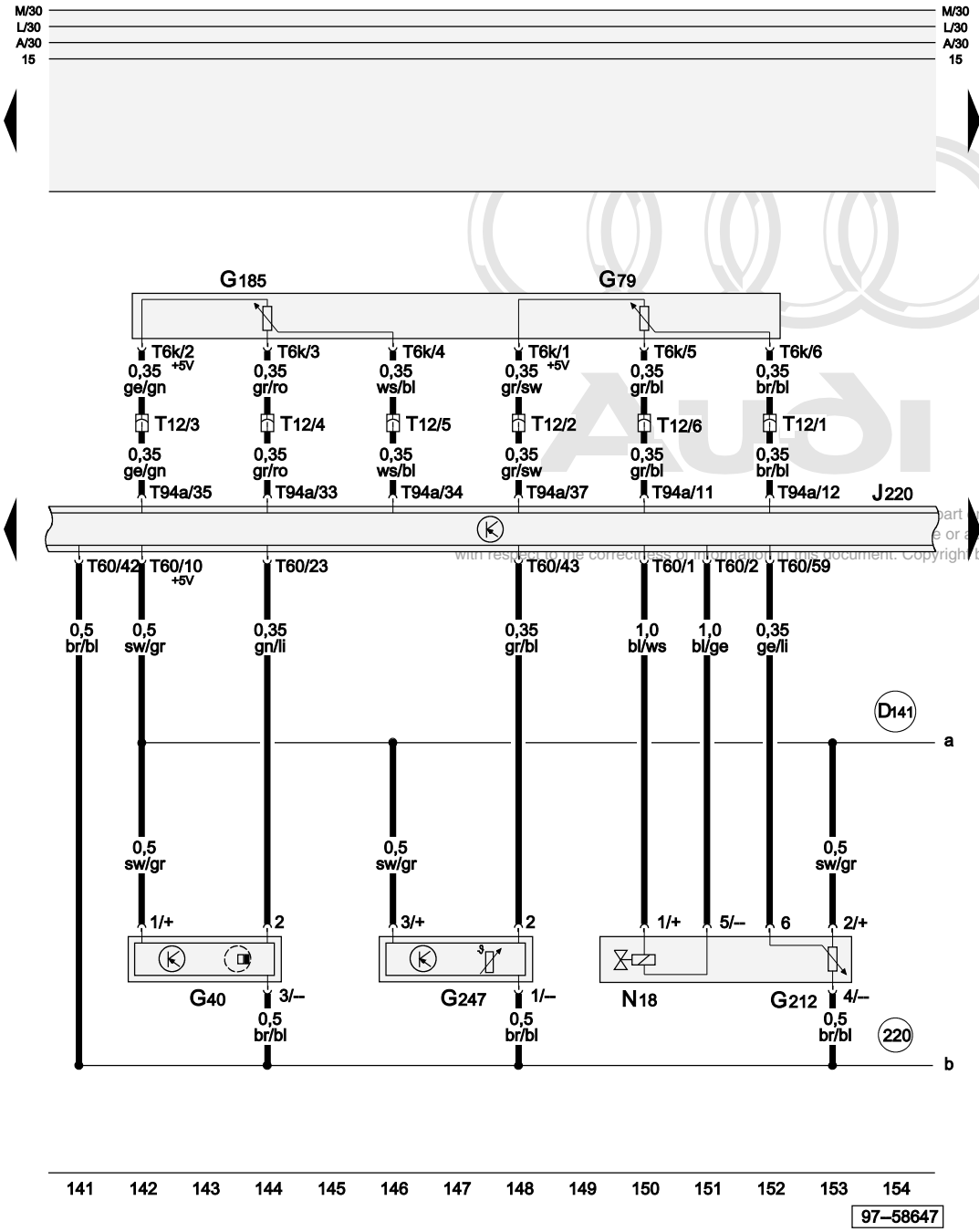


Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
SC5	Fuse 5 on fuse holder
SC13	Fuse 13 on fuse holder
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T94a	94-pin connector, black (connector B)
366	Earth connection 1, in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	From week 17/2003 no longer fitted
**	applicable from week 17/2003
***	for models with manual gearbox only

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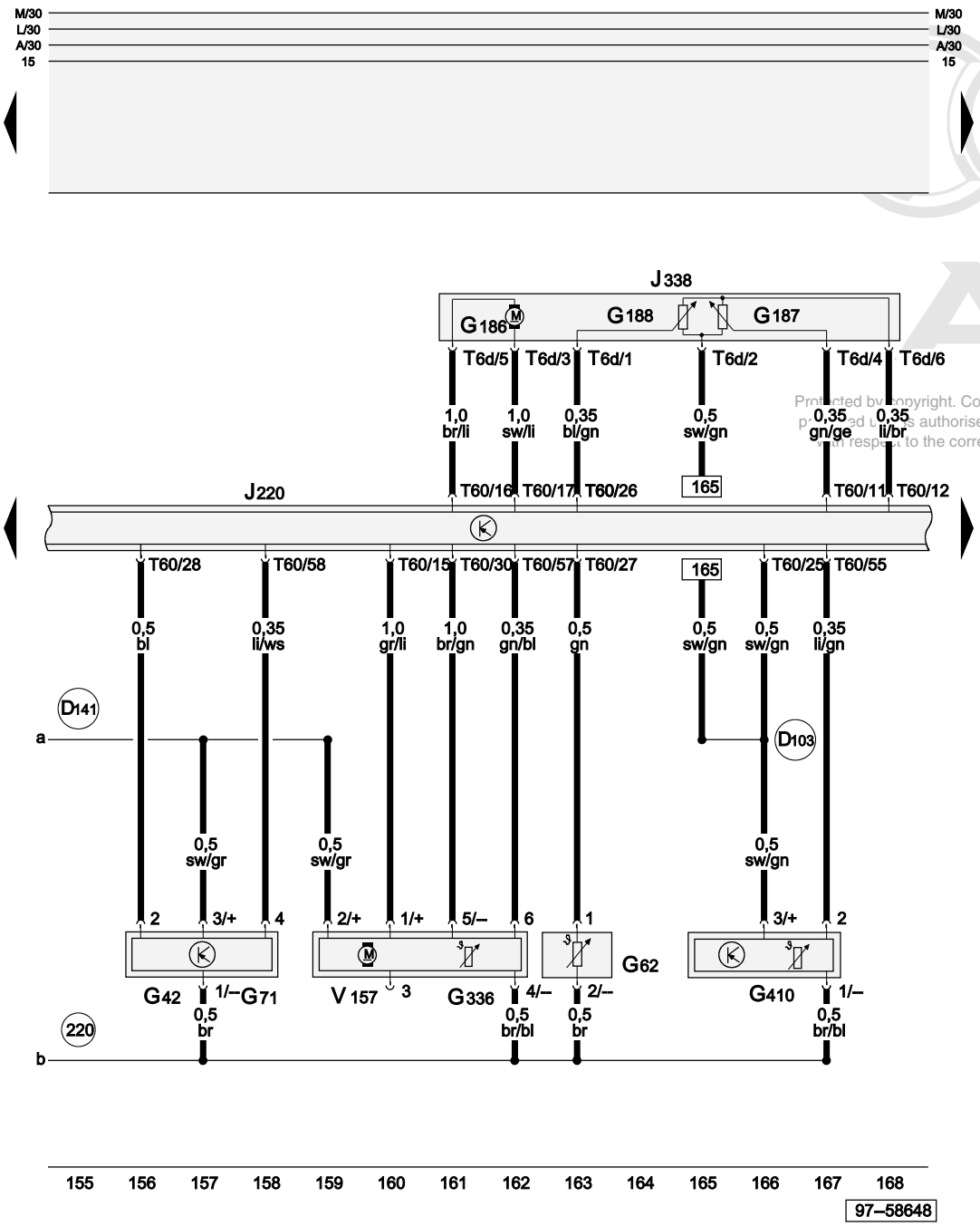


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or = orange
rs = pink

Hall sender, accelerator position sender, exhaust gas recirculation potentiometer, fuel pressure sender

G40	Hall sender
G79	Accelerator position sender
G185	Accelerator position sender -2-
G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
J220	Motronic control unit
N18	Exhaust gas recirculation valve
T6k	6-pin connector, black, near accelerator position sender
T12	12-pin connector, green, in plenum chamber
T60	60-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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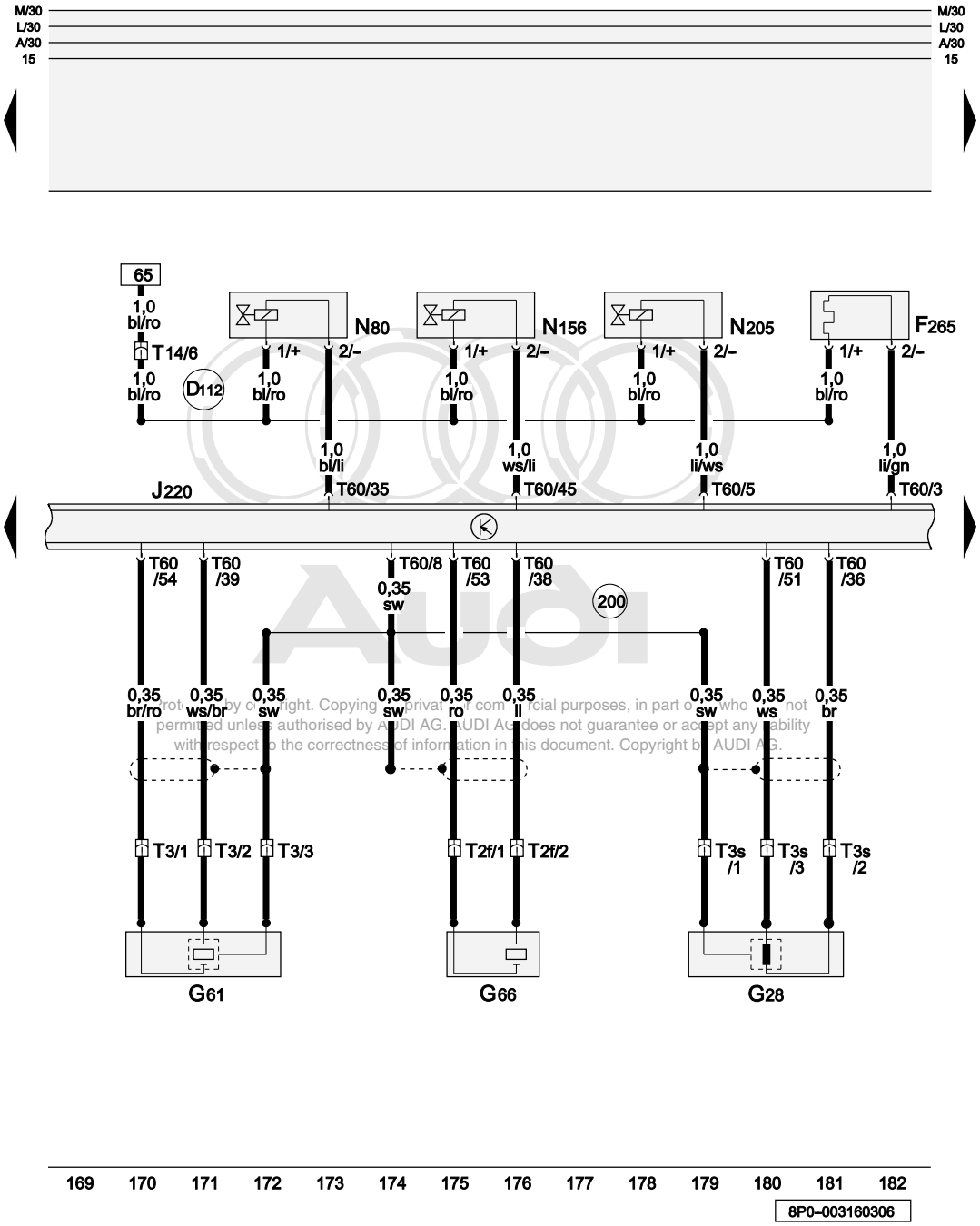


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Coolant temperature sender, intake manifold pressure sender, fuel pressure sender, low pressure, throttle valve module

G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 (electric power control)
G188	Throttle valve drive angle sender 2 (electric power control)
G336	Intake manifold flap potentiometer
G410	Fuel pressure sender, low pressure
J220	Motronic control unit
J338	Throttle valve module
T6d	6-pin connector, black, near throttle valve module
T60	60-pin connector, black (connector A)
V157	Intake manifold flap motor
220	Earth connection (sender earth), in engine wiring harness
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness

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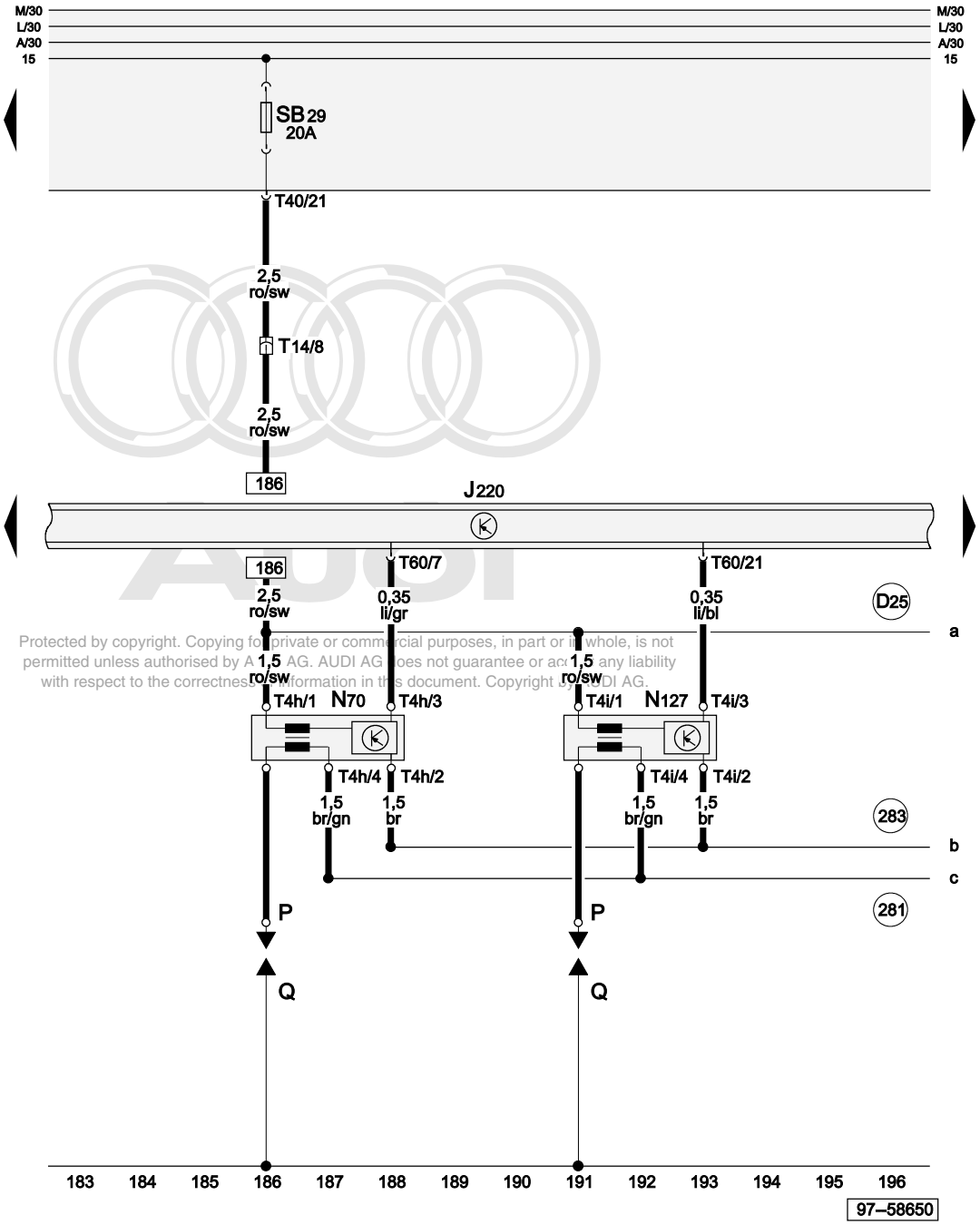


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Map-controlled engine cooling system thermostat, engine speed sender, knock sensor, inlet camshaft control valve 1

F265	Map-controlled engine cooling system thermostat
G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J220	Motronic control unit
N80	Activated charcoal filter system solenoid valve 1 (pulsed)
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
T2f	2-pin connector, black, in left engine compartment (knock sensor 2)
T3	3-pin connector, black, in left engine compartment (knock sensor)
T3s	3-pin connector
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
200	Earth connection (screening), in engine compartment wiring harness
D112	Connection 10, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

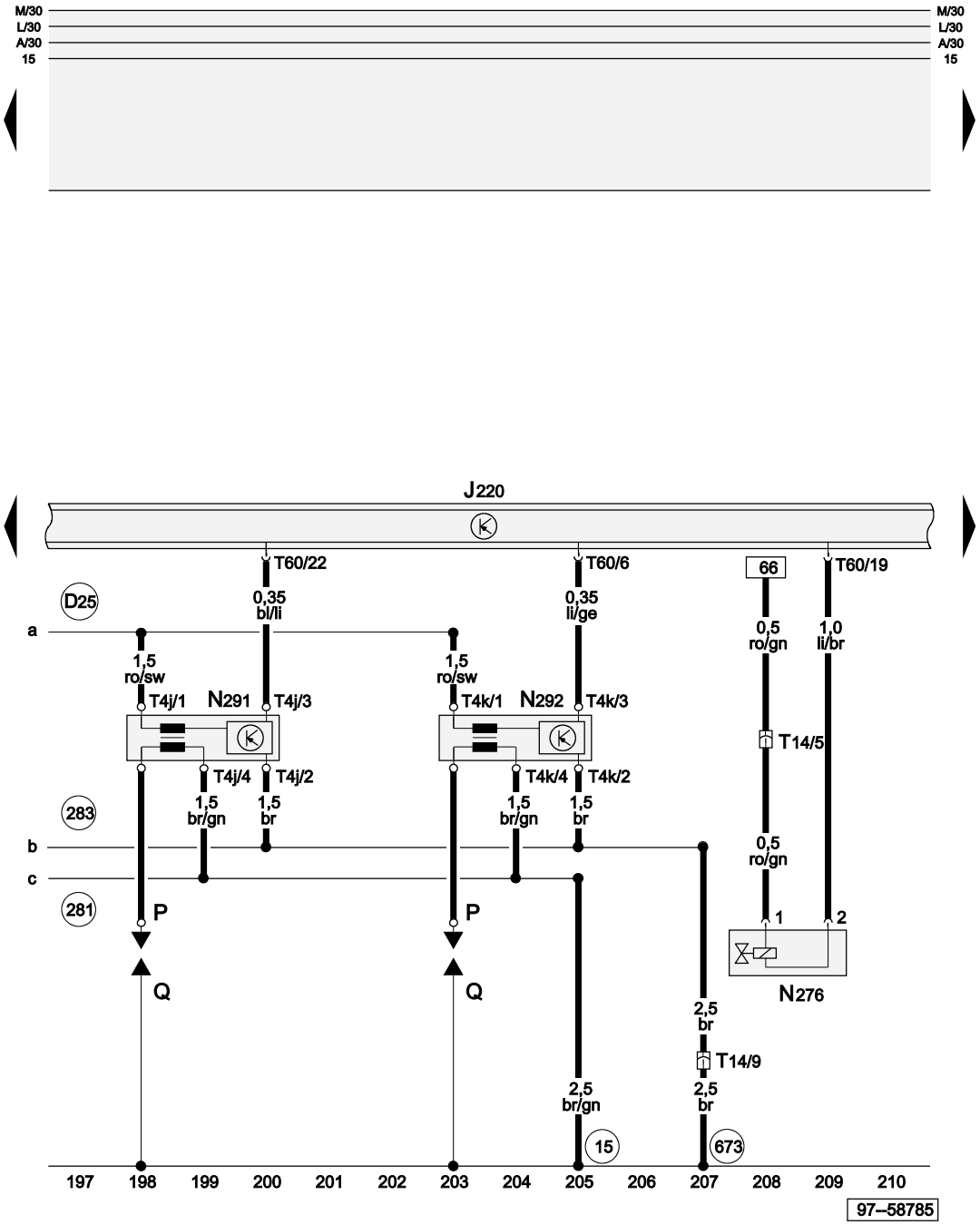


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Motronic control unit, ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
P	Spark plug connector
Q	Spark plugs
SB29	Fuse 29 von fuse holder
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
D25	Positive connection (15), in engine wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

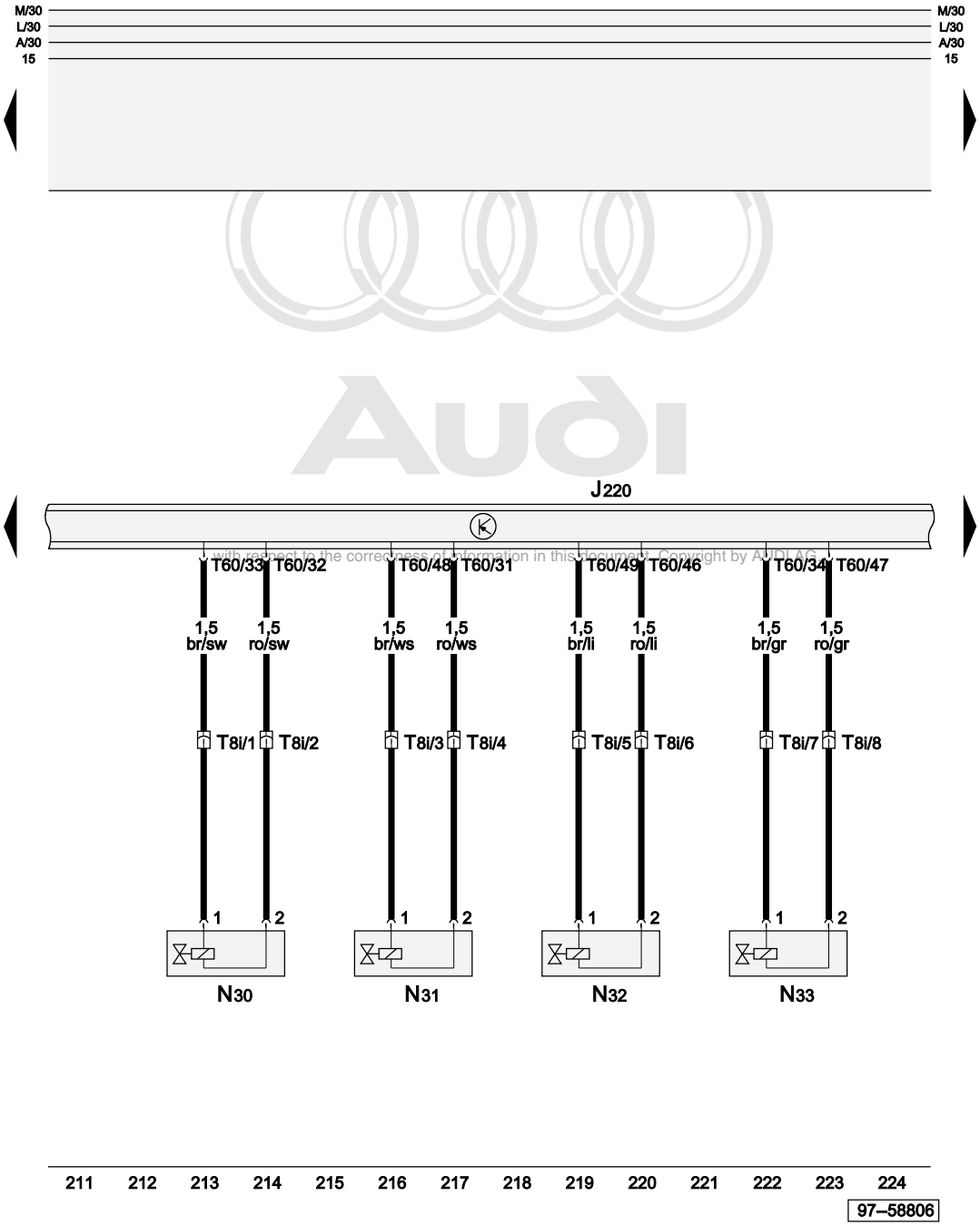


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Motronic control unit, fuel metering valve, ignition coils 3 and 4 with output stage

J220	Motronic control unit
N276	Fuel pressure regulating valve
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4j	4-pin connector, black, on ignition coil 3 with output stage
T4k	4-pin connector, black, on ignition coil 4 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
15	Earth point, on cylinder head
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
673	Earth point 3, on front of left longitudinal member
D25	Positive connection (15), in engine wiring harness

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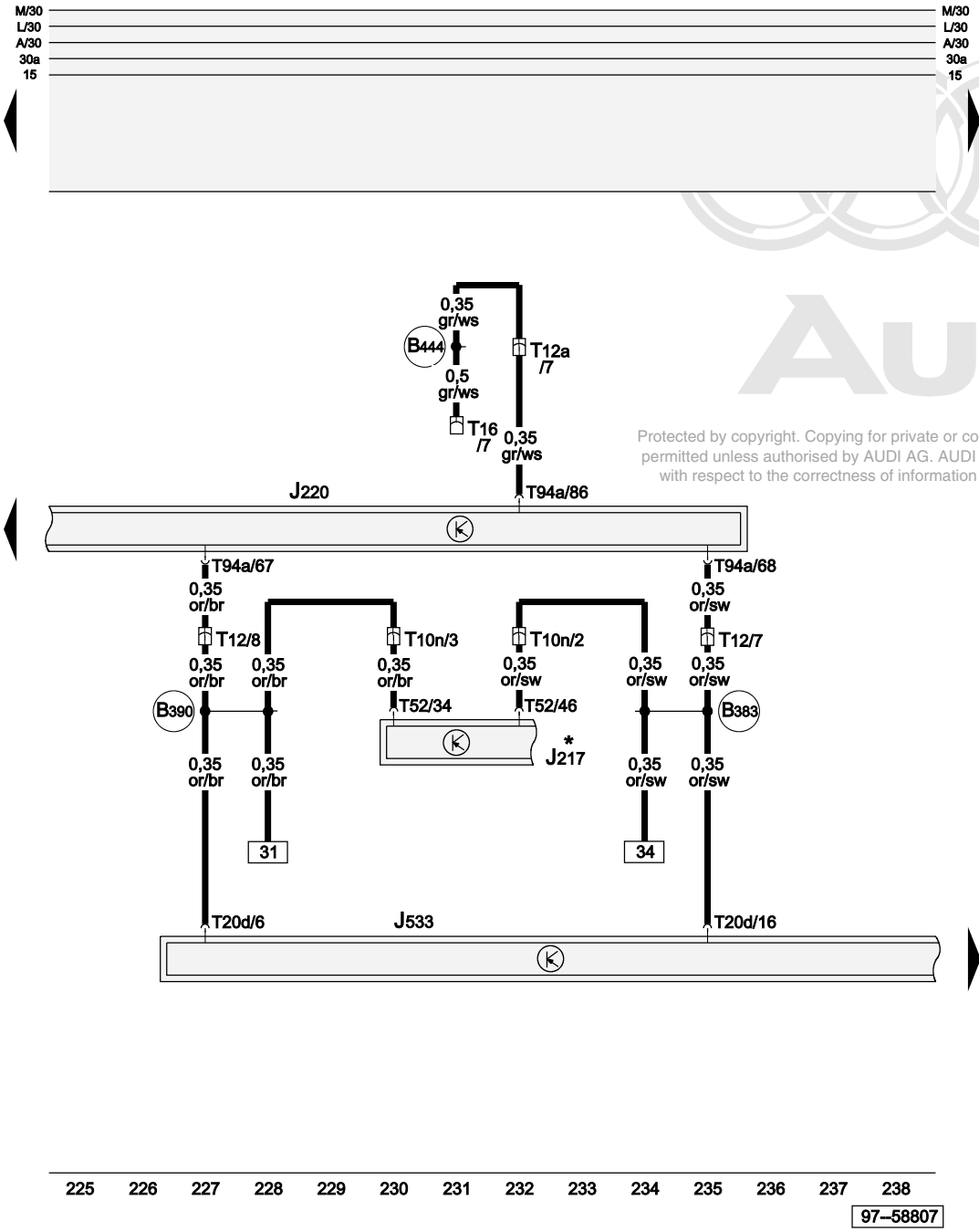


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Injectors

J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8i	8-pin connector, black, near injectors
T60	60-pin connector, black (connector A)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

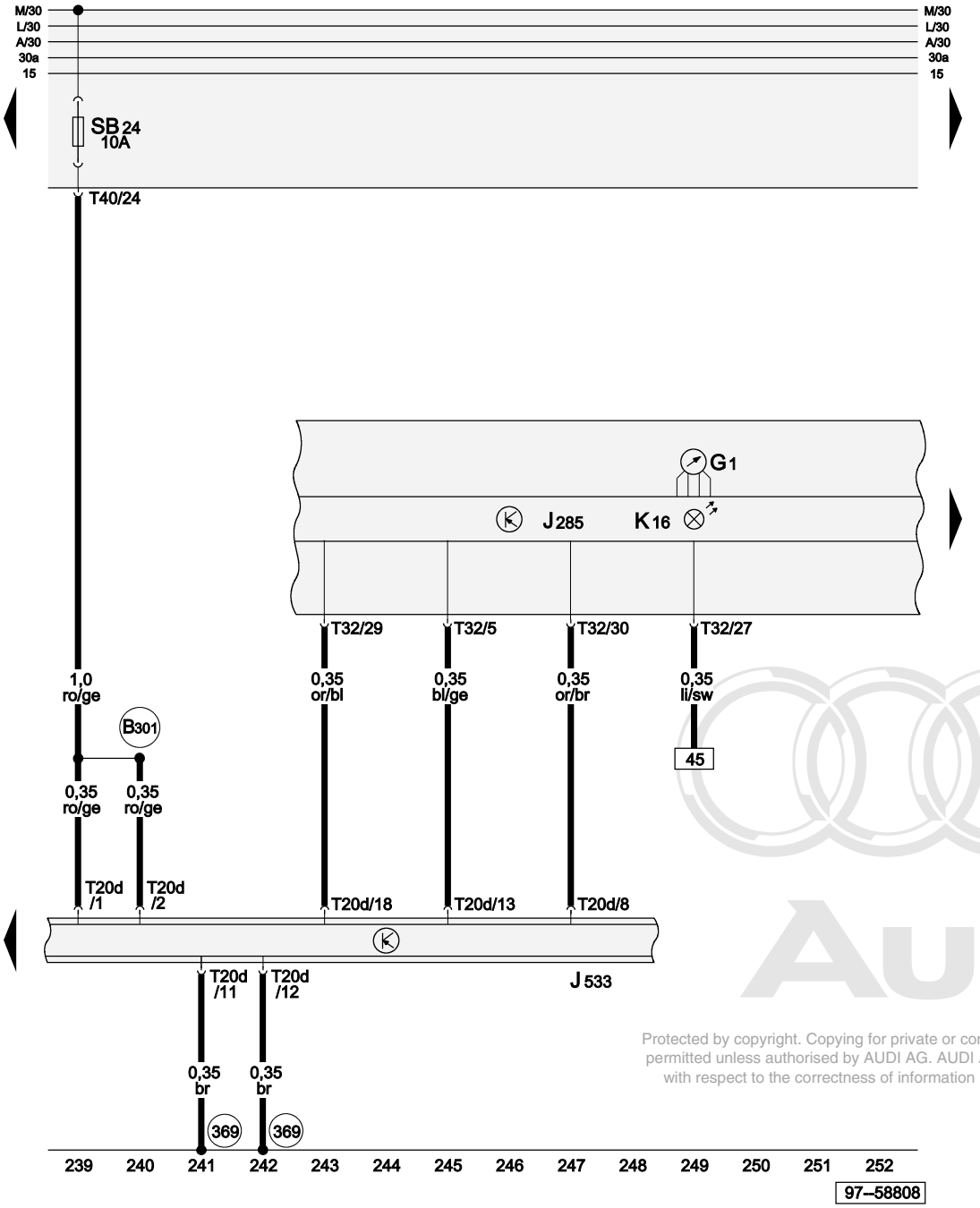


Drive train CAN bus, K-diagnosis wiring

J217	Automatic gearbox control unit
J220	Motronic control unit
J533	Data bus diagnostic interface
T10n	10-pin connector, black, near longitudinal member, front left
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with automatic gearbox (09G) only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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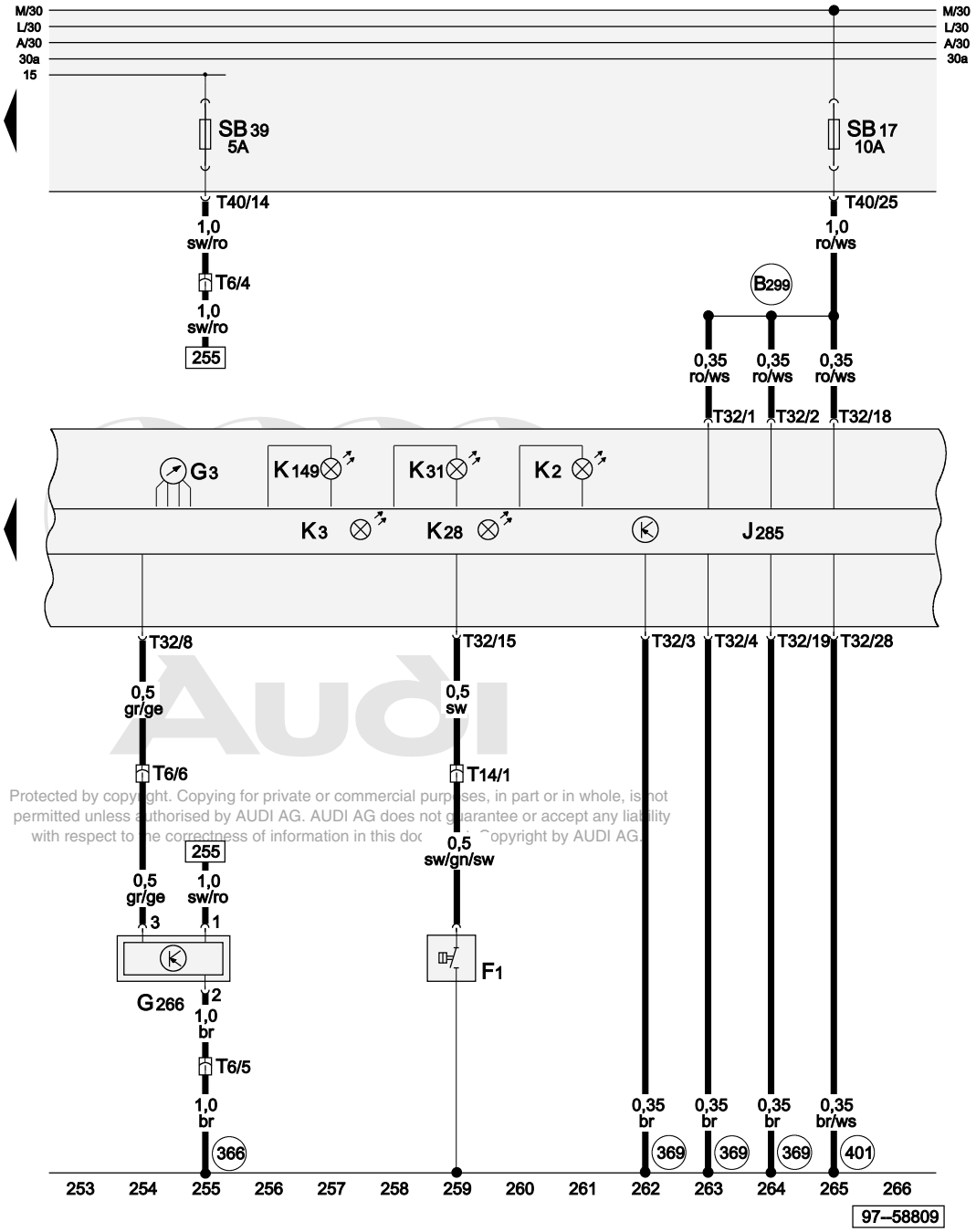


Data bus diagnostic interface, control unit with display in dash panel insert

G1	Fuel gauge
J285	Control unit with display in dash panel insert
J533	Data bus diagnostic interface
K16	Reserve fuel warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection -5- (30), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Oil pressure switch, control unit with display in dash panel insert

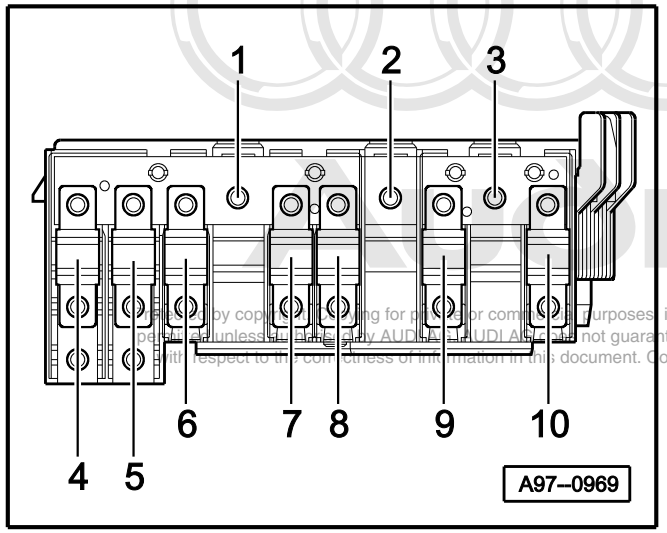
F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit with display in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature/coolant shortage warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection -3- (30), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

1.9l - Diesel engine (unit injectors), 77kW, 4-cylinder with engine code BKC

from model year 2004

Main fuse holder, electronics box



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- On electronics box, in engine compartment, front left

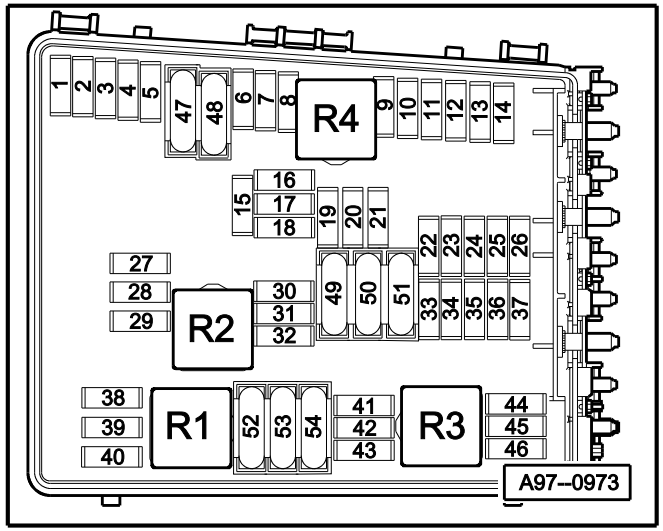
Main supply connection
2 - Screw connection M (terminal 30)

Fuse locations
4 - Fuse -1- on fuse holder/battery (SA1)
5 - Fuse -2- on fuse holder/battery (SA2)
6 - Fuse -3- on fuse holder/battery (SA3)
7 - Fuse -4- on fuse holder/battery (SA4)
8 - Fuse -5- on fuse holder/battery (SA5)
9 - Fuse -6- on fuse holder/battery (SA6)

Note:

- *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
30 A - green
25 A - white
15 A - blue
10 A - red
5 A - beige

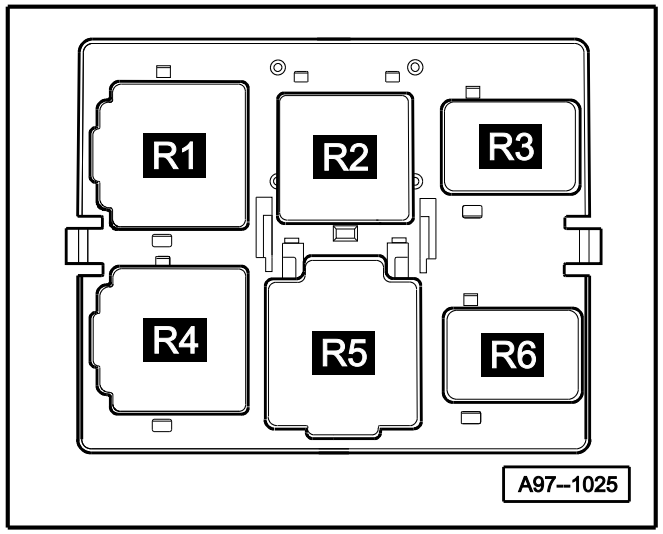
Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329
R2 - Terminal 50 voltage supply relay - J682
R4 - Terminal 30 voltage supply relay - J317

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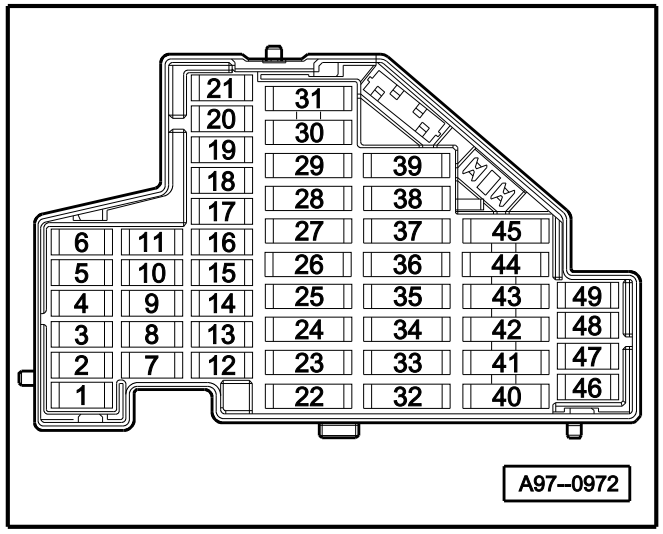
6-point relay carrier



- Under electronics box in engine compartment, left

Position of relays
R2 - Automatic glow period control unit - J179

Fuse holder



- Driver side dash panel

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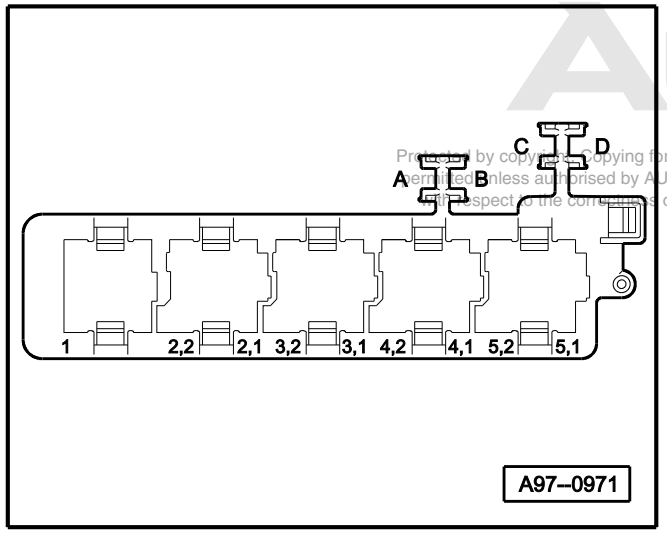
Fuse colours

15 A - blue
10 A - red
5 A - beige

Note:

♦ *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

5-point relay carrier



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♦ Above the onboard power supply control unit, dash panel, driver side, bottom left

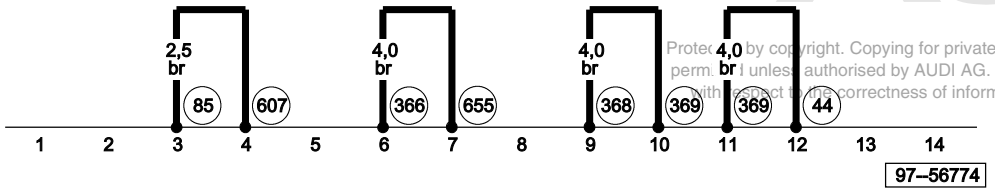
Position of relays

2.1 - Fuel pump relay - J17



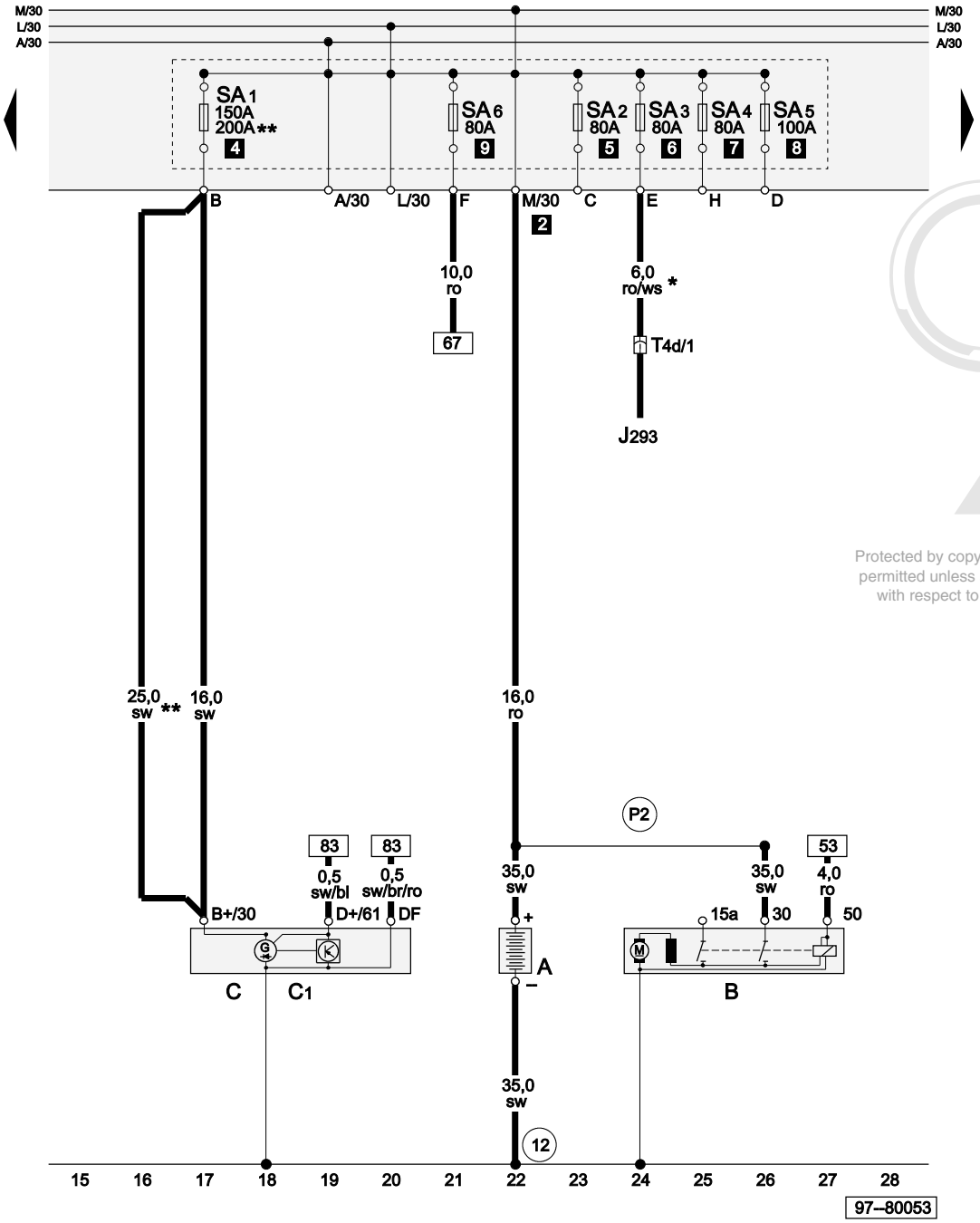
Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection -1-, in engine compartment wiring harness
- 366 Earth connection -1-, in main wiring harness
- 368 Earth connection -3-, in main wiring harness
- 369 Earth connection -4-, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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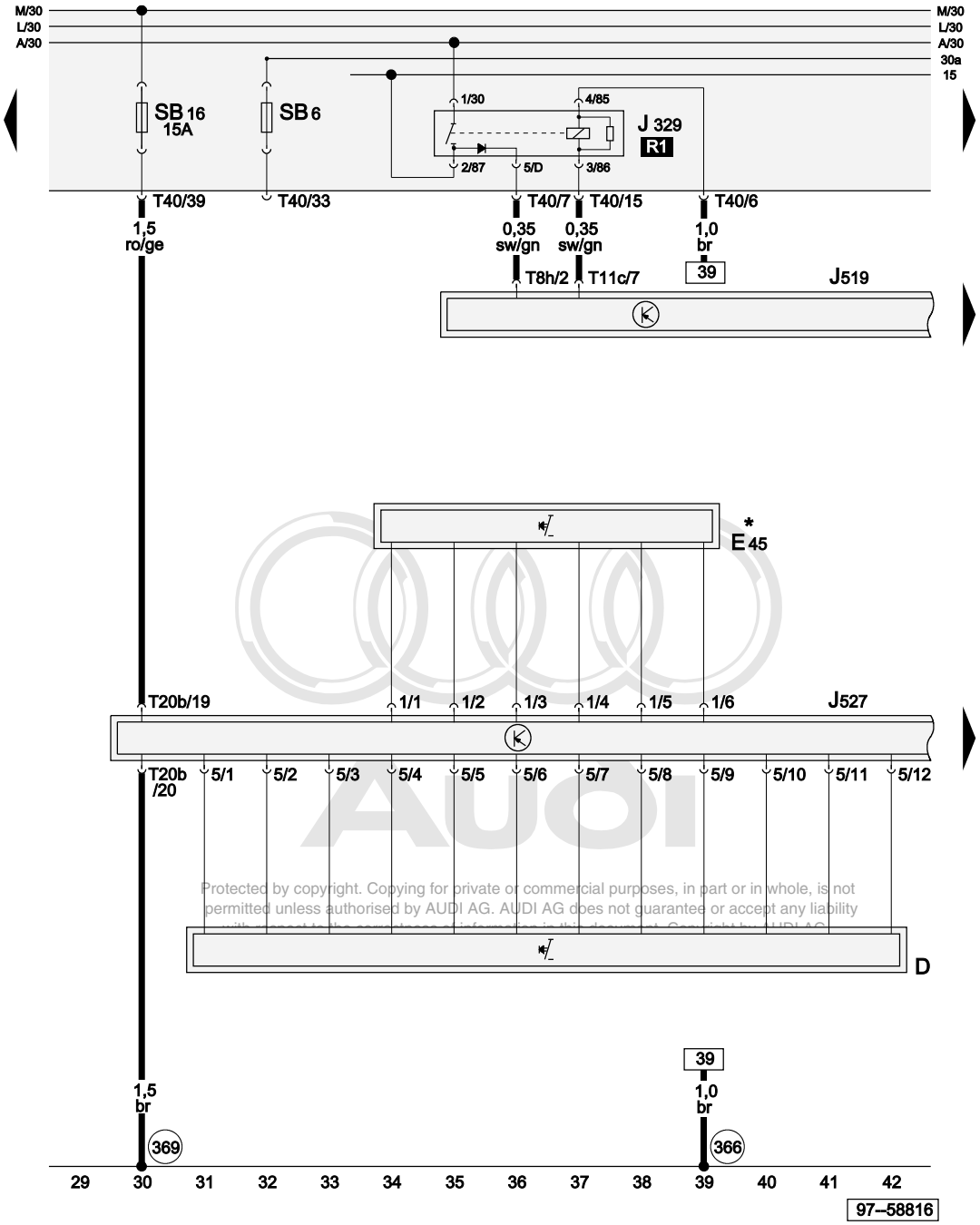


Starter, battery, alternator, fuses on fuse holder/battery

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J293	Radiator fan control unit
SA1	Fuse -1- on fuse holder/battery
SA2	Fuse -2- on fuse holder/battery
SA3	Fuse -3- on fuse holder/battery
SA4	Fuse -4- on fuse holder/battery
SA5	Fuse -5- on fuse holder/battery
SA6	Fuse -6- on fuse holder/battery
T4d	4-pin connector, black, on radiator fan (front end)
12	Earth point, on left in engine compartment
P2	Positive connection (30), in battery wiring harness
*	See applicable Current Flow Diagram: radiator fan control for diesel engines
**	For models with alternator only (140A)

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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

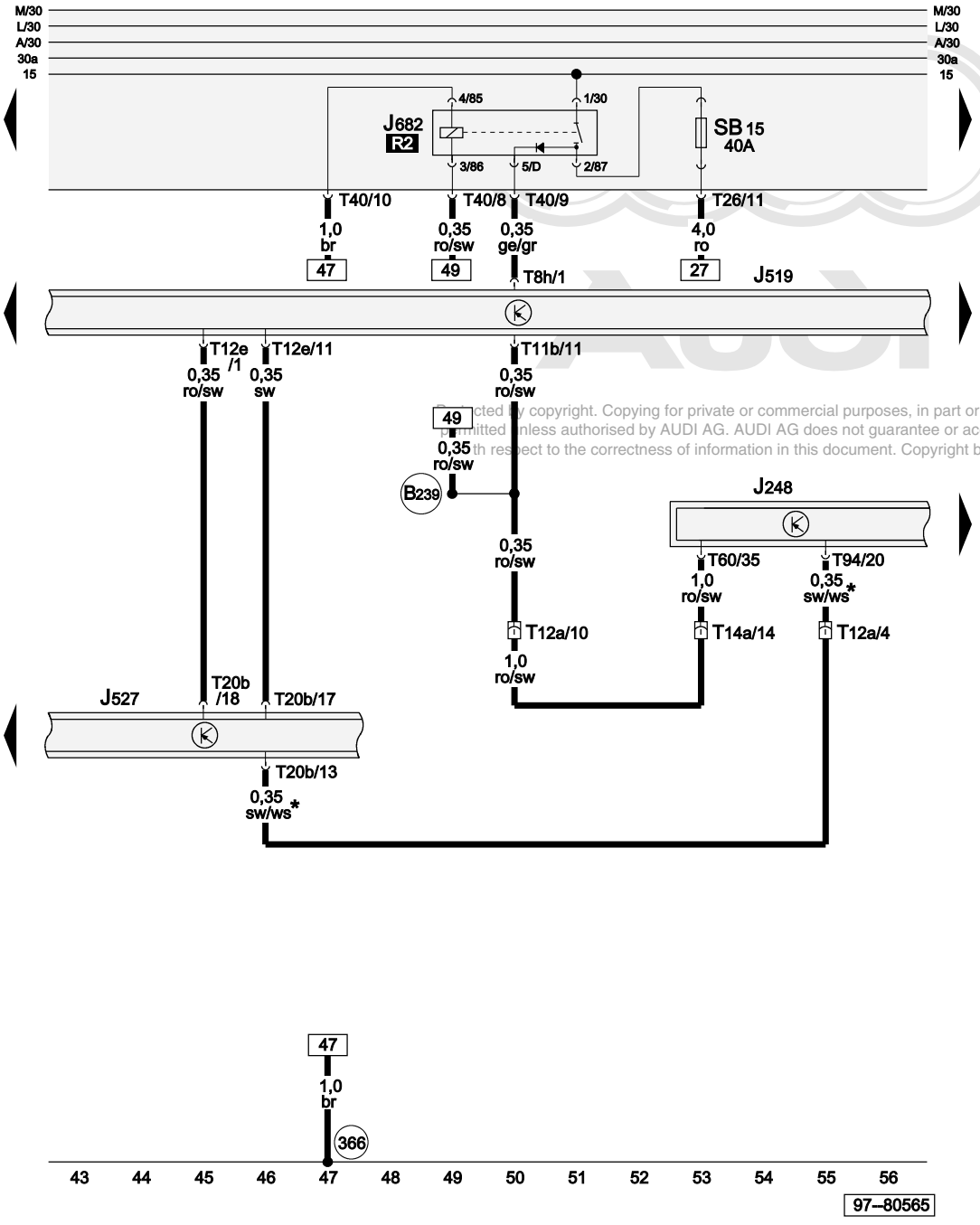


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Terminal 15 voltage supply relay, cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB6	Fuse -6- on fuse holder
SB16	Fuse -16- on fuse holder
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection -1-, in main wiring harness
369	Earth connection -4-, in main wiring harness
*	For models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

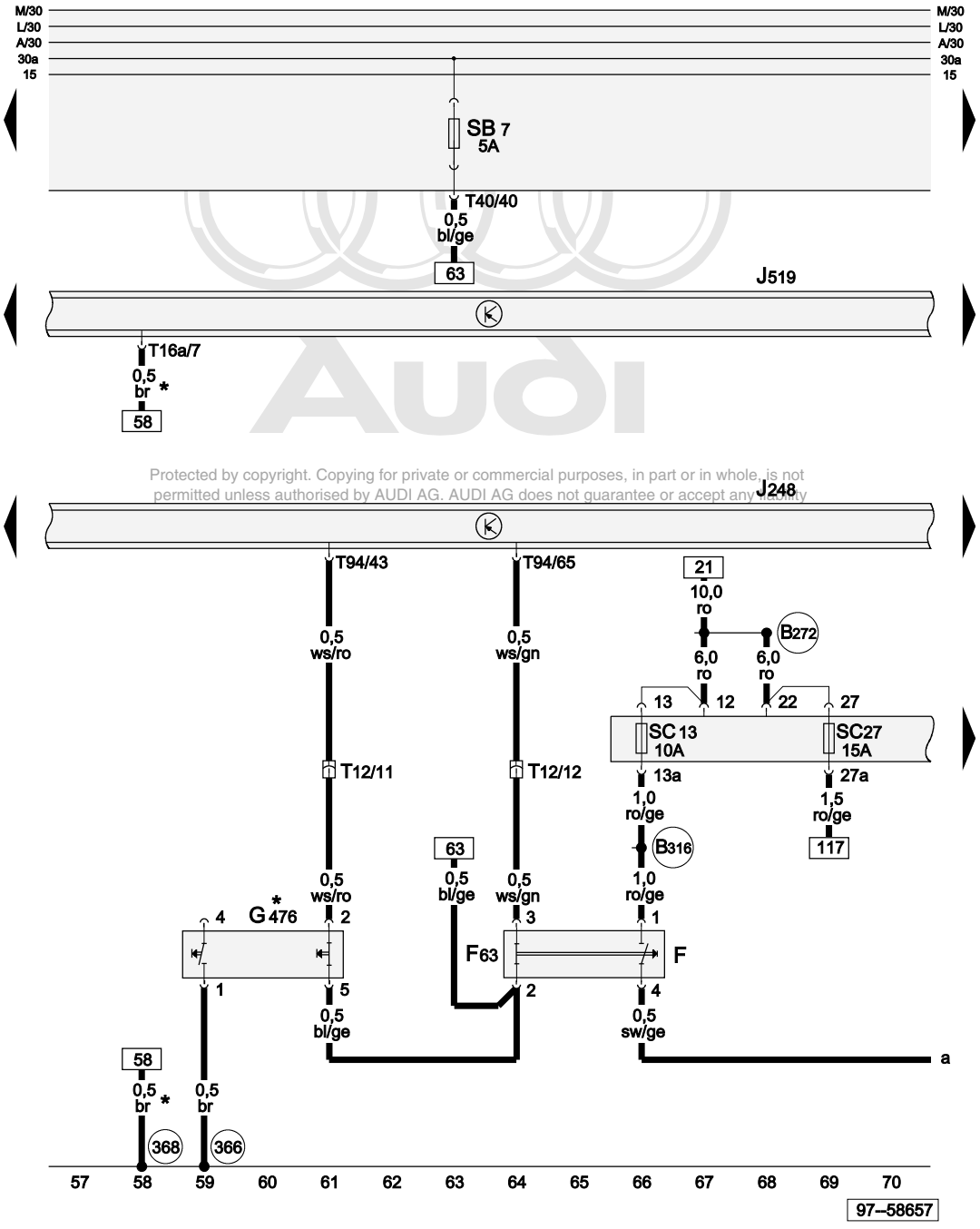


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Terminal 50 voltage supply relay

J248	Diesel direct injection system control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse -15- on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12a	12-pin connector, blue, in plenum chamber
T12e	12-pin connector, black (connector G)
T14a	14-pin connector, black, near relay carrier electronics box
T20b	20-pin connector, black (connector A)
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
366	Earth connection -1-, in main wiring harness
B239	Positive connection -1- (50), in interior wiring harness
*	For models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

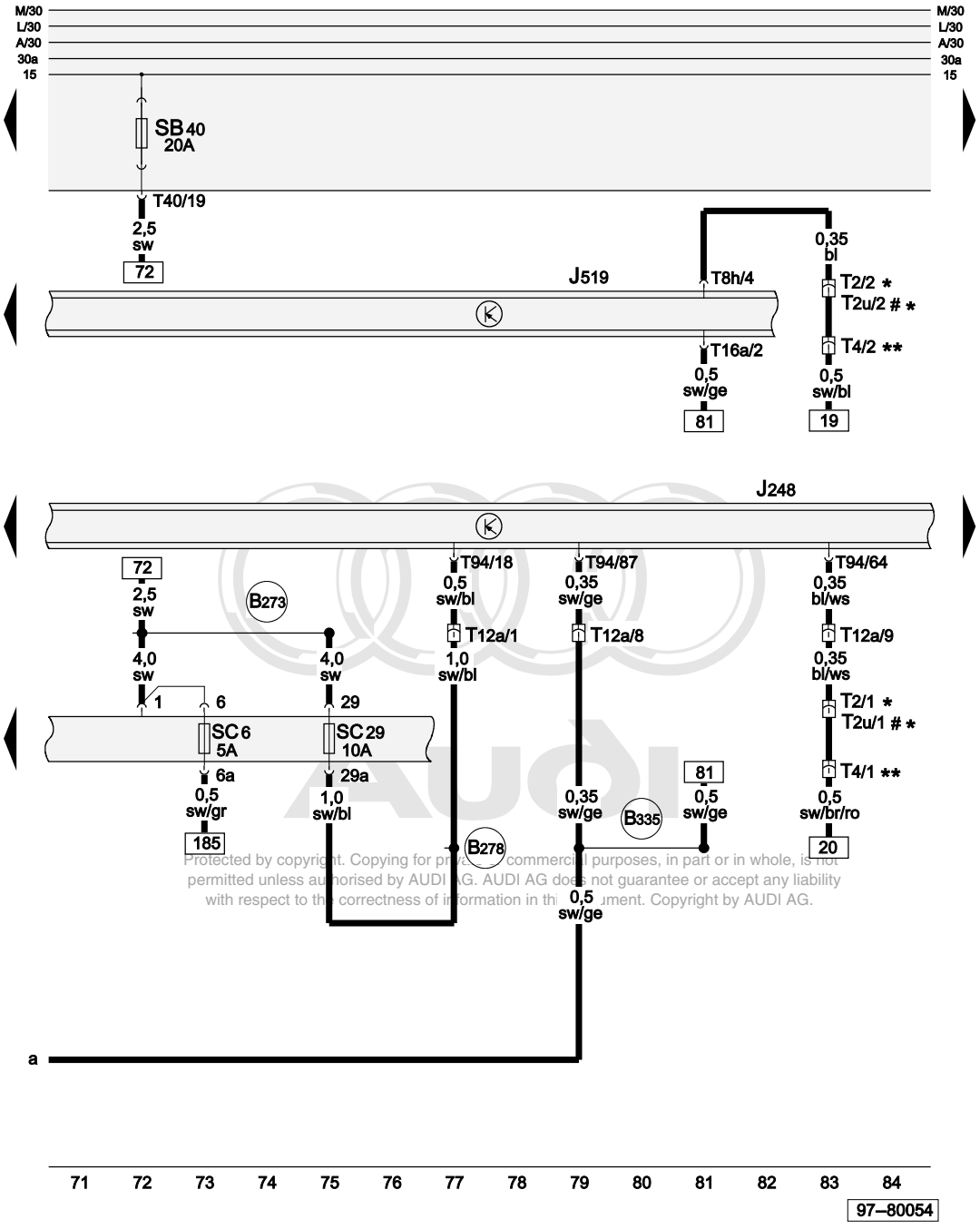


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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Brake light switch, brake pedal switch, clutch position sender, fuses on fuse holder

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J248	Diesel direct injection system control unit
SB7	Fuse -7- on fuse holder
SC13	Fuse -13- on fuse holder
SC27	Fuse -27- on fuse holder
T12	12-pin connector, green, in plenum chamber
T16a	16-pin connector, black (connector E)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
366	Earth connection -1-, in main wiring harness
368	Earth connection -3-, in main wiring harness
B272	Positive connection (30), in main wiring harness
B316	Positive connection -2- (30a), in main wiring harness
*	For models with manual gearbox only

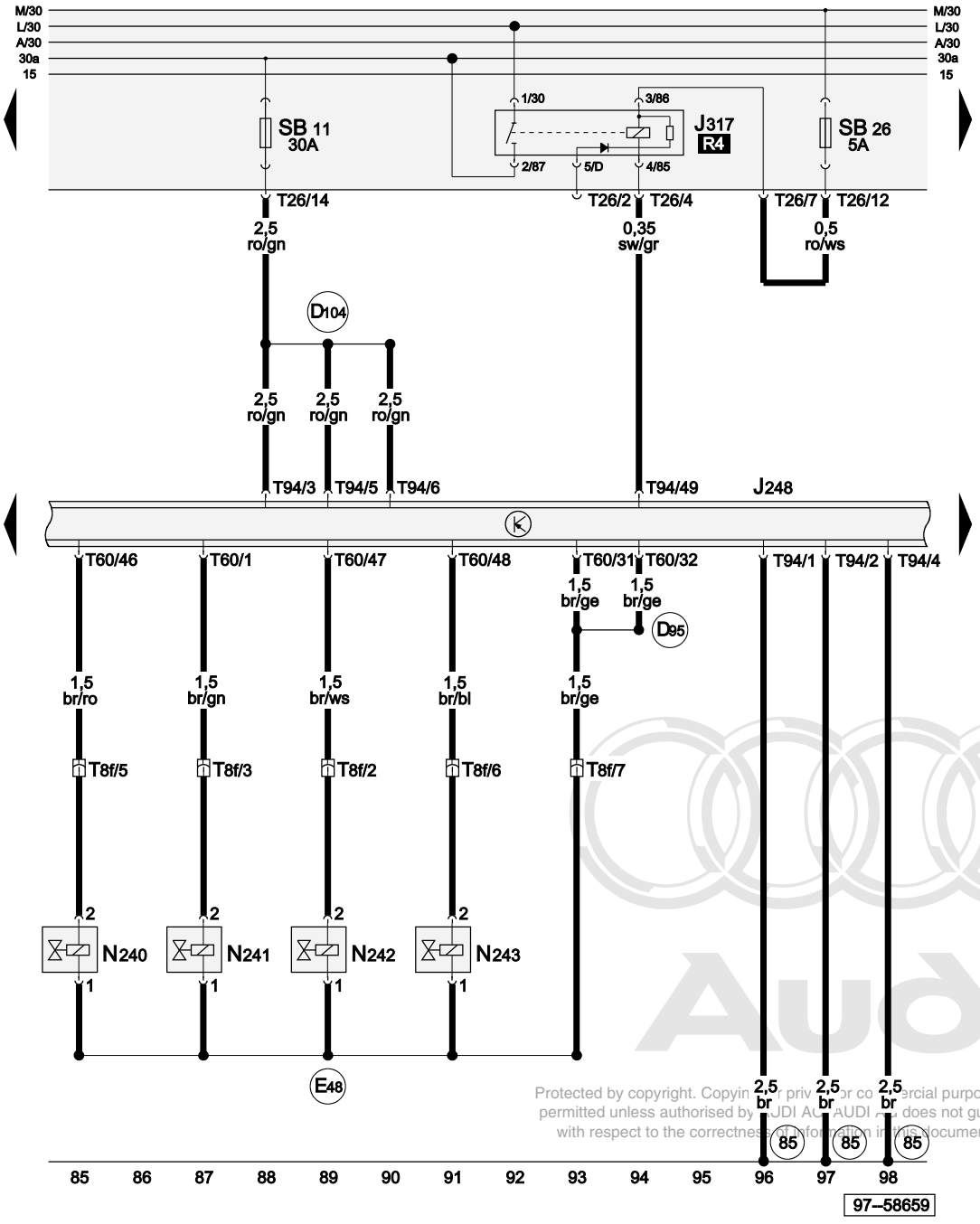


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Fuses on fuse holder

J248	Diesel direct injection system control unit
J519	Onboard supply control unit
SB40	Fuse -40- on fuse holder
SC6	Fuse -6- on fuse holder
SC29	Fuse -29- on fuse holder
T2	2-pin connector, black, in front left engine compartment
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T12a	12-pin connector, blue, in plenum chamber
T16a	16-pin connector, black (connector E)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection -2- (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	For models without air conditioner only
**	For models with air conditioning system only
#	T2 is replaced by T2u, applicable from November 2003

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

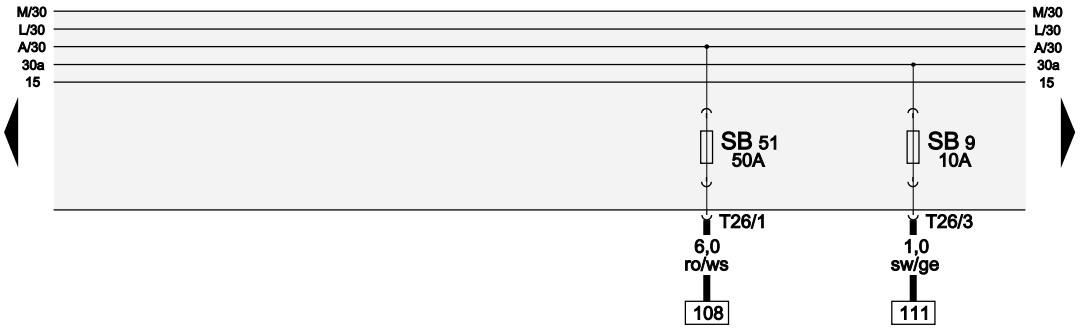


ws = white
sw = black
ro = red
br = brown
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li = purple
ge = yellow
or = orange
rs = pink

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Terminal 30 voltage supply relay, unit injector valves

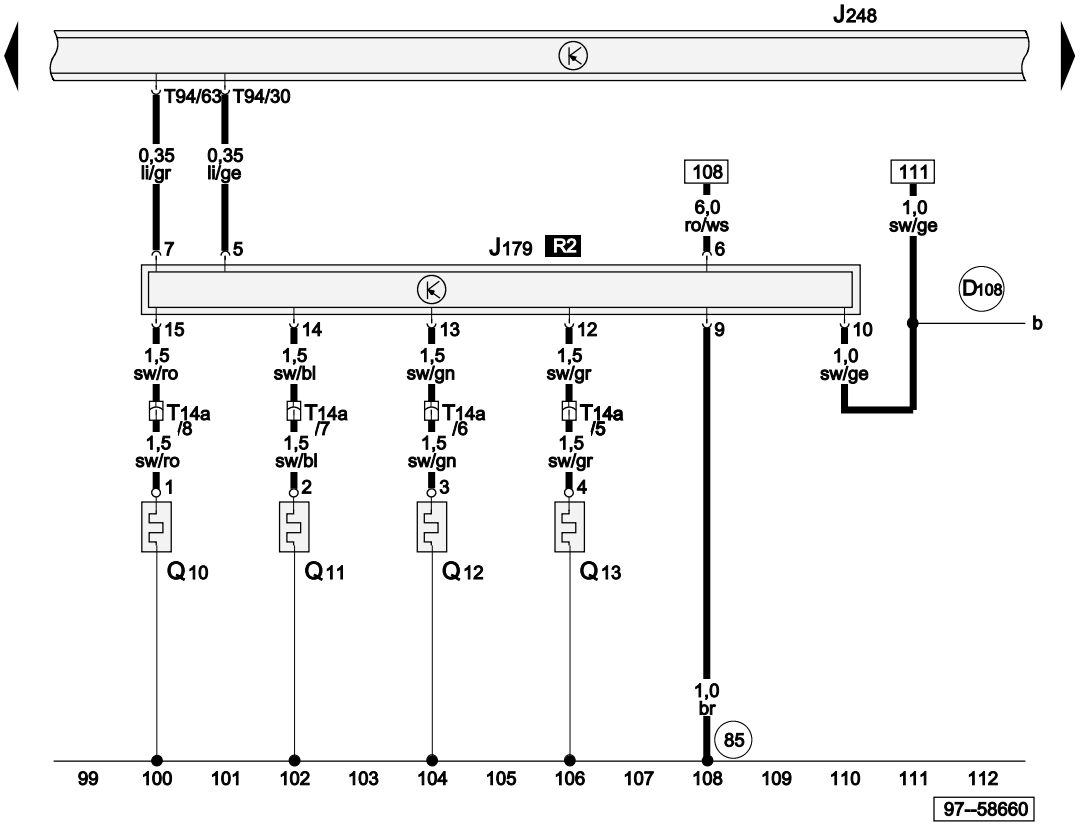
J248	Diesel direct injection system control unit
J317	Terminal 30 voltage supply relay
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB11	Fuse -11- on fuse holder
SB26	Fuse -26- on fuse holder
T8f	8-pin connector, black, in engine compartment
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
85	Earth connection -1-, in engine compartment wiring harness
D95	Connection (injectors), in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness



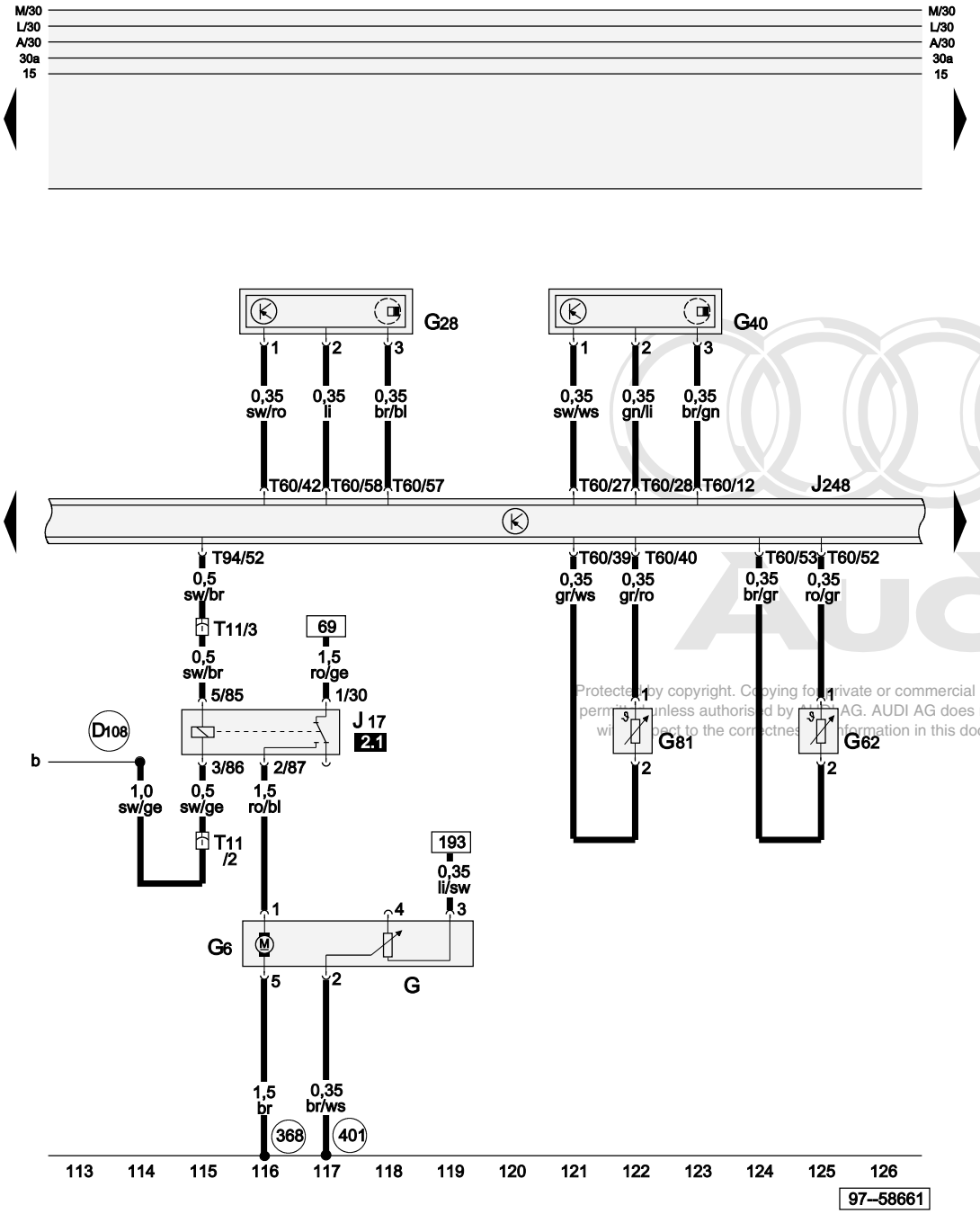
Glow plugs, automatic glow period control unit

J179	Automatic glow period control unit
J248	Diesel direct injection system control unit
SB9	Fuse -9- on fuse holder
SB51	Fuse -51- on fuse holder
T14a	14-pin connector, black, near relay carrier electronics box
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
85	Earth connection -1-, in engine compartment wiring harness
D108	Connection -6-, in engine compartment wiring harness

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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

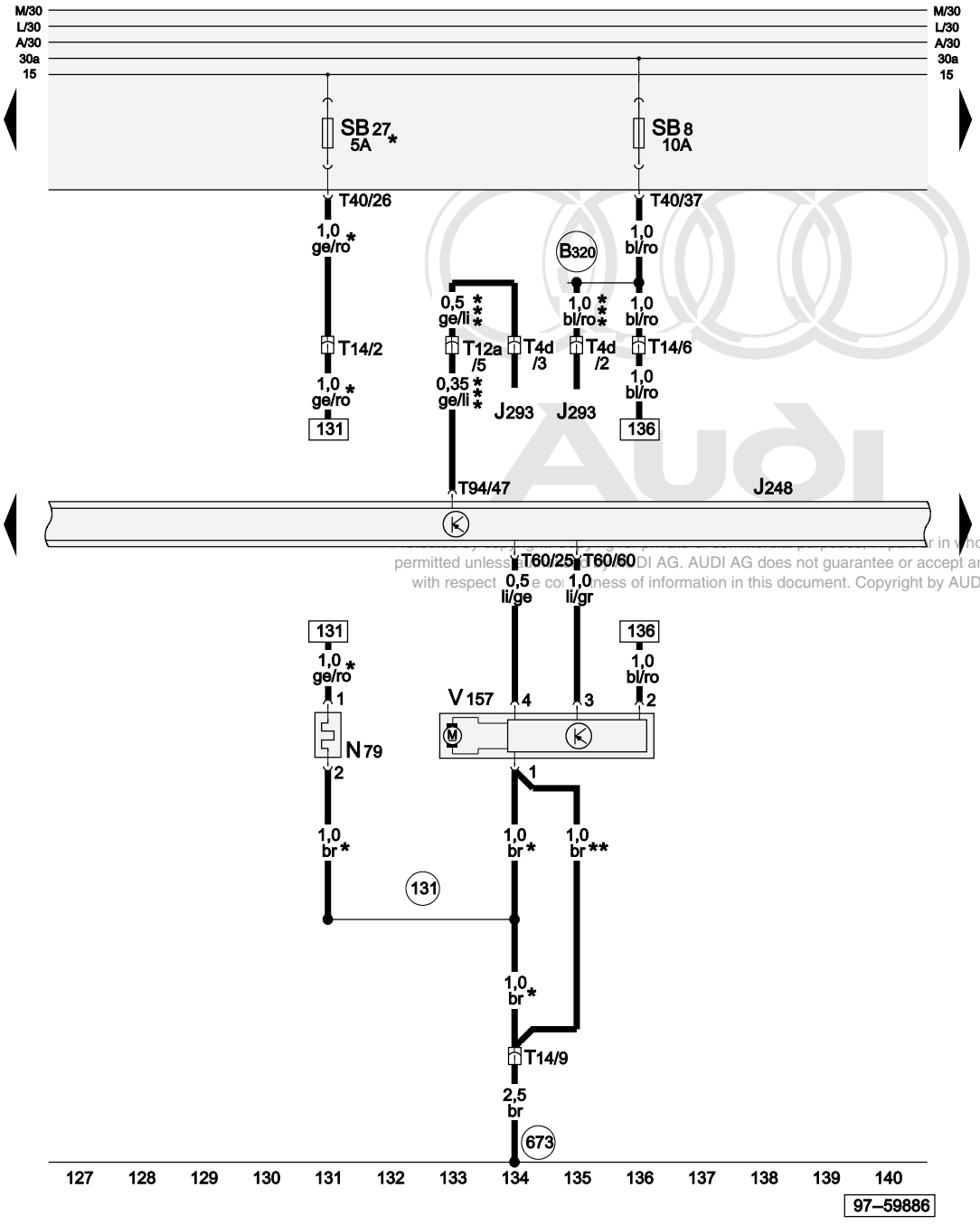


Hall sender, fuel gauge sender, fuel temperature, coolant temperature sender, engine speed

G	Fuel gauge sender
G6	Fuel pump (pre-supply pump)
G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J17	Fuel pump relay
J248	Diesel direct injection system control unit
T11	11-pin connector, white, in plenum chamber
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
368	Earth connection -3-, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
D108	Connection -6-, in engine compartment wiring harness

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gn	=	green
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or	=	orange
rs	=	pink



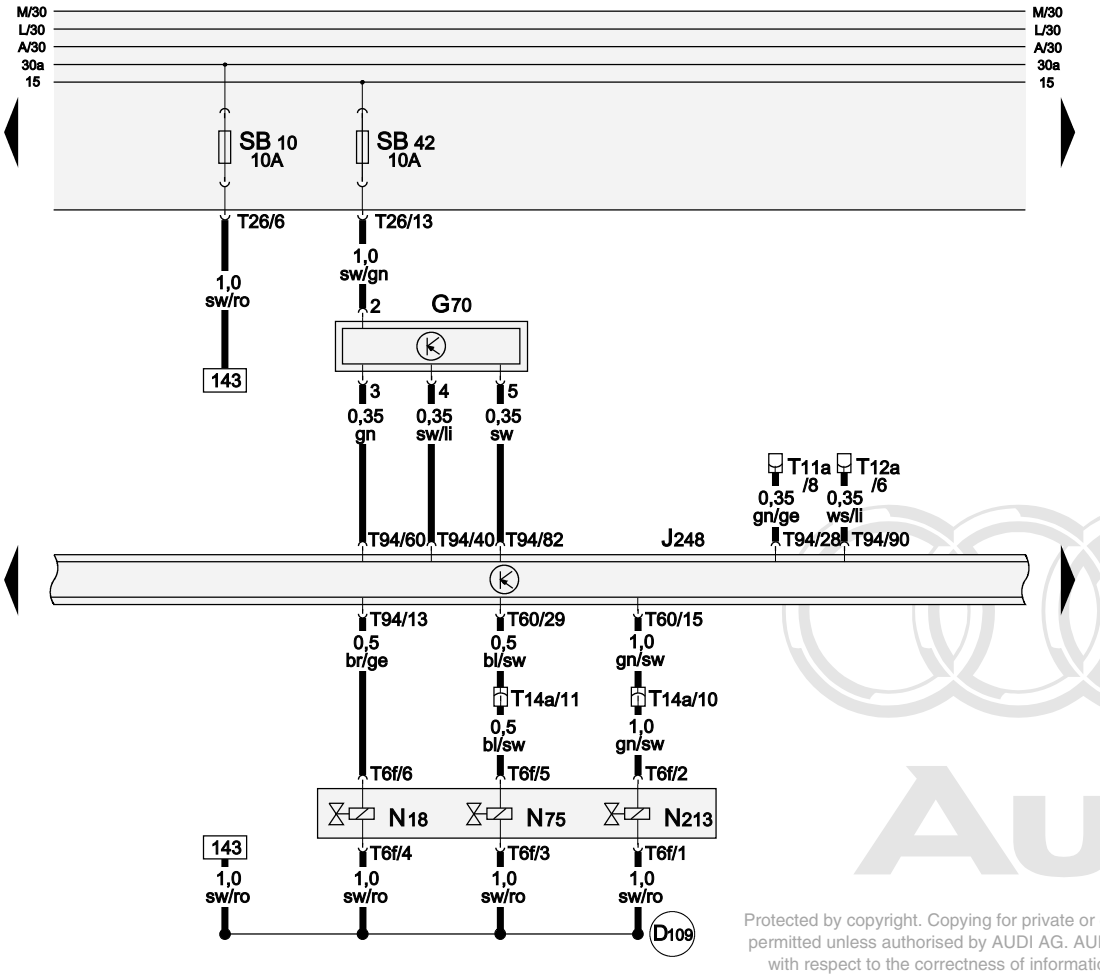
Audi

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Heater element (crankcase breather), intake manifold flap motor

J248	Diesel direct injection system control unit
J293	Radiator fan control unit
SB8	Fuse -8- on fuse holder
SB27	Fuse -27- on fuse holder
N79	Heater element for crankcase breather
T4d	4-pin connector, black, on radiator fan (front end)
T12a	12-pin connector, blue, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V157	Intake manifold flap motor
131	Earth connection -2-, in engine compartment wiring harness
673	Earth point 3, on front of left longitudinal member
B320	Positive connection -6- (30a), in main wiring harness
*	With heater element
**	Without heater element
***	See applicable Current Flow Diagram: radiator fan control for diesel engines

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

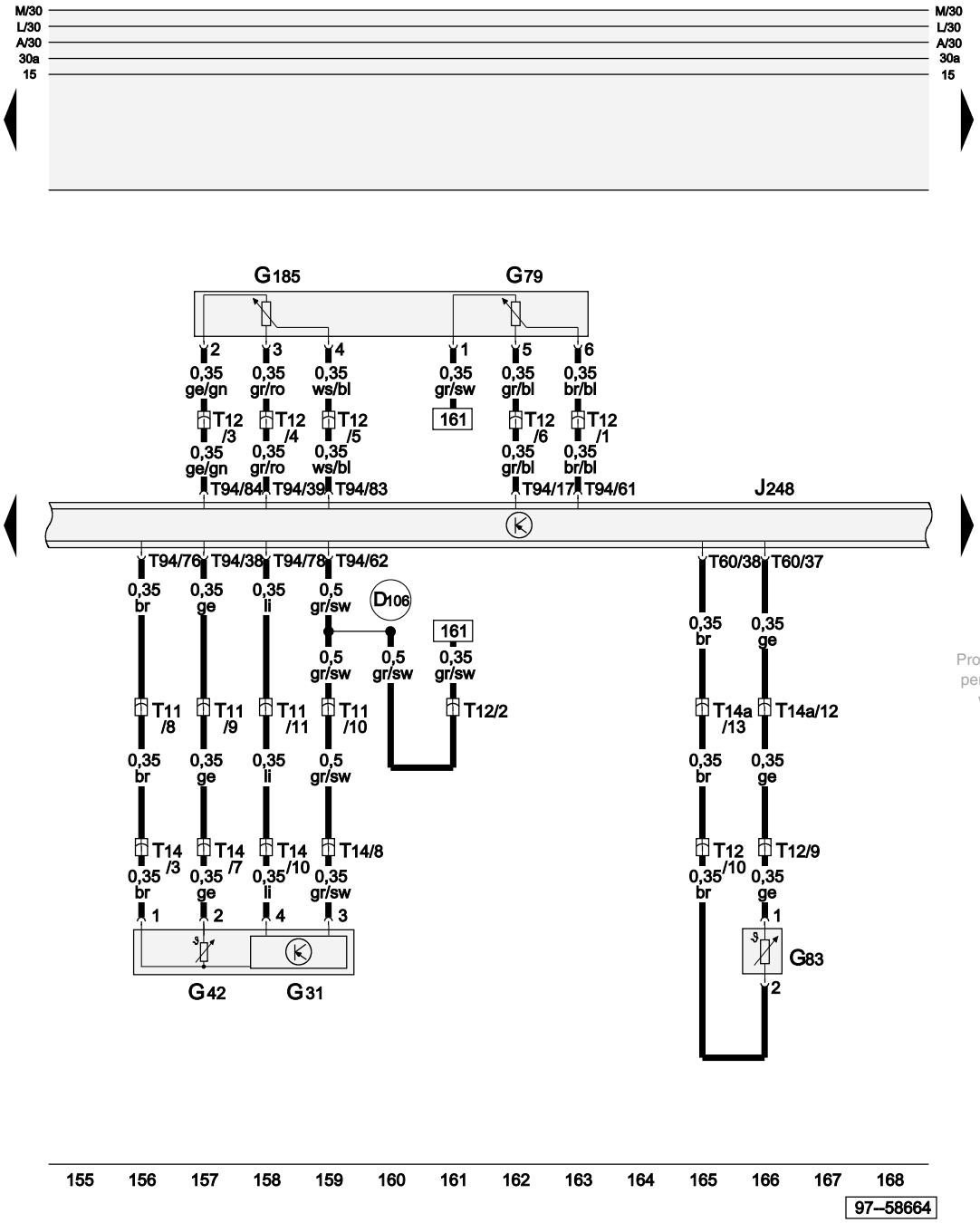


Air mass meter, exhaust gas recirculation valve, charge pressure control solenoid valve

G70	Air mass meter
J248	Diesel direct injection system control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N213	Exhaust gas recirculation valve 2
SB10	Fuse -10- on fuse holder
SB42	Fuse -42- on fuse holder
T6f	6-pin connector, black, on valve block
T11a	11-pin connector, red, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T14a	14-pin connector, black, near relay carrier electronics box
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D109	Connection -7-, in engine compartment wiring harness

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gn	=	green
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rs	=	pink

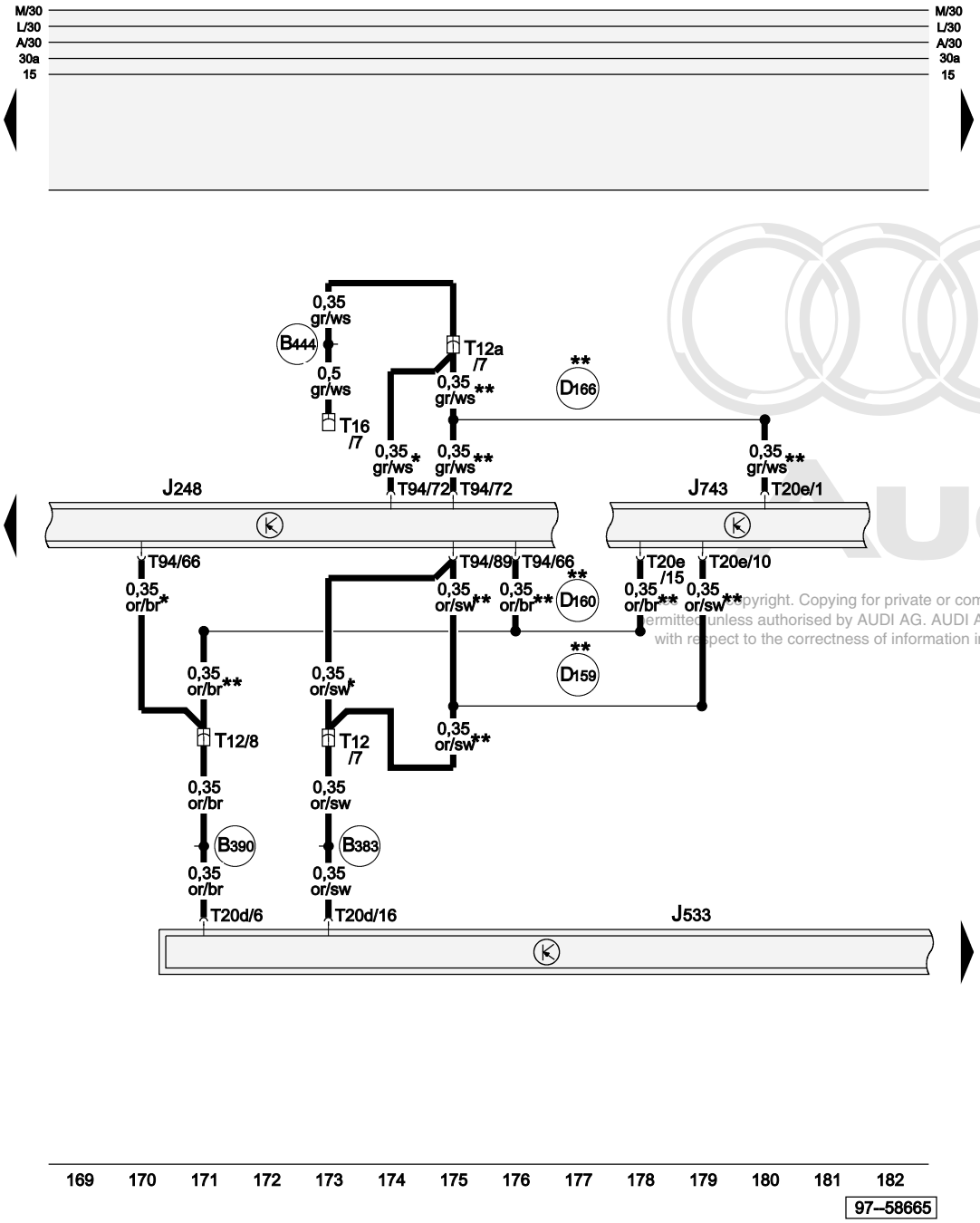


Charge air pressure sender, intake air temperature, accelerator position, radiator outlet coolant temperature

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender -2-
J248	Diesel direct injection system control unit
T11	11-pin connector, white, in plenum chamber
T12	12-pin connector, green, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T14a	14-pin connector, black, near relay carrier electronics box
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D106	Connection -4-, in engine compartment wiring harness

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ge	=	yellow
or	=	orange
rs	=	pink

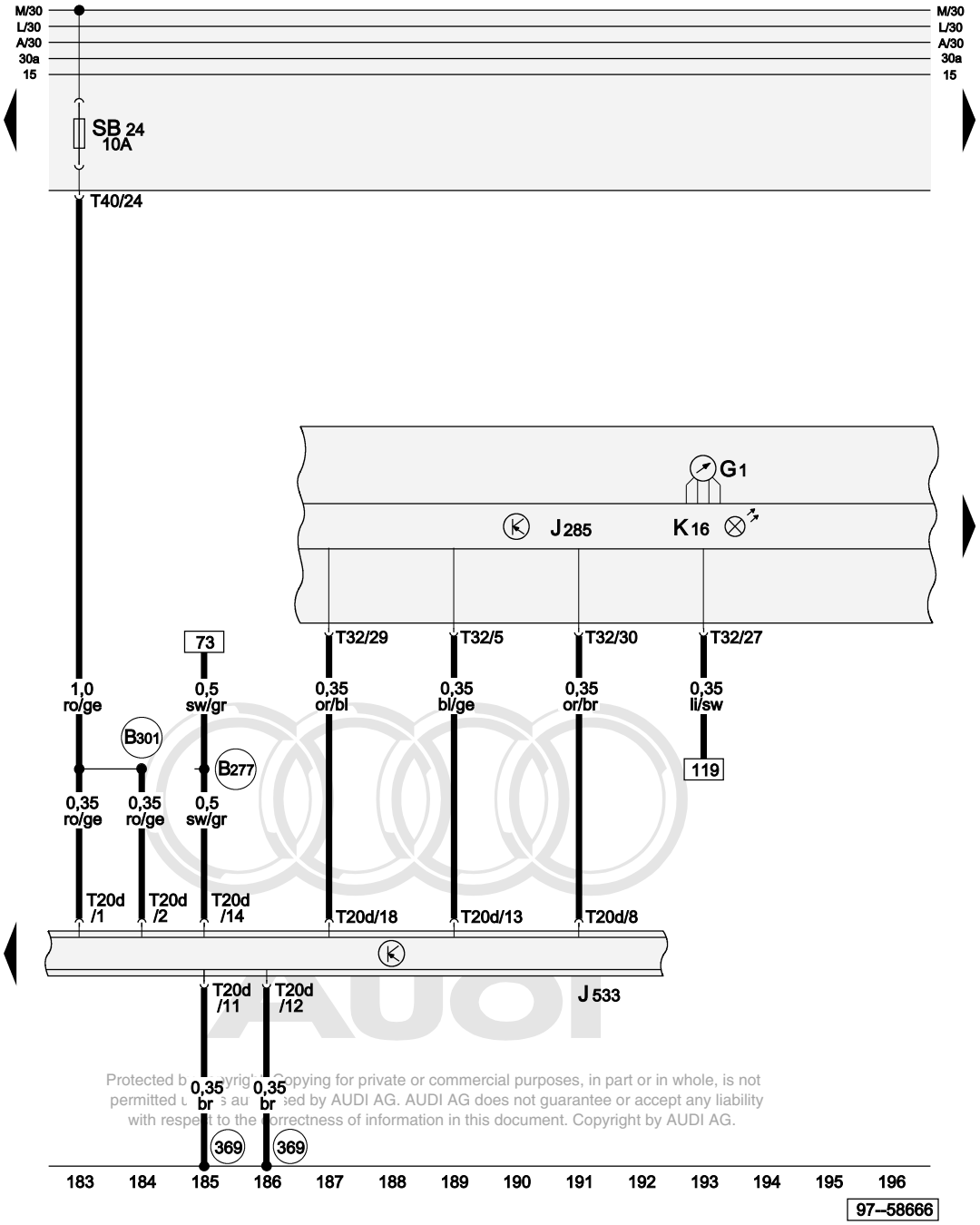


Drive train CAN bus, K-diagnosis wiring

J248	Diesel direct injection system control unit
J533	Data bus diagnostic interface
J743	Mechatronics for direct shift gearbox
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness
B444	Connection -1- (diagnosis), in main wiring harness
D159	Connection (high bus), in engine compartment wiring harness
D160	Connection (low bus), in engine compartment wiring harness
D166	Connection (K-diagnosis wiring), in engine compartment wiring harness
*	For models with manual gearbox only
**	for models with direct shift gearbox (02E) only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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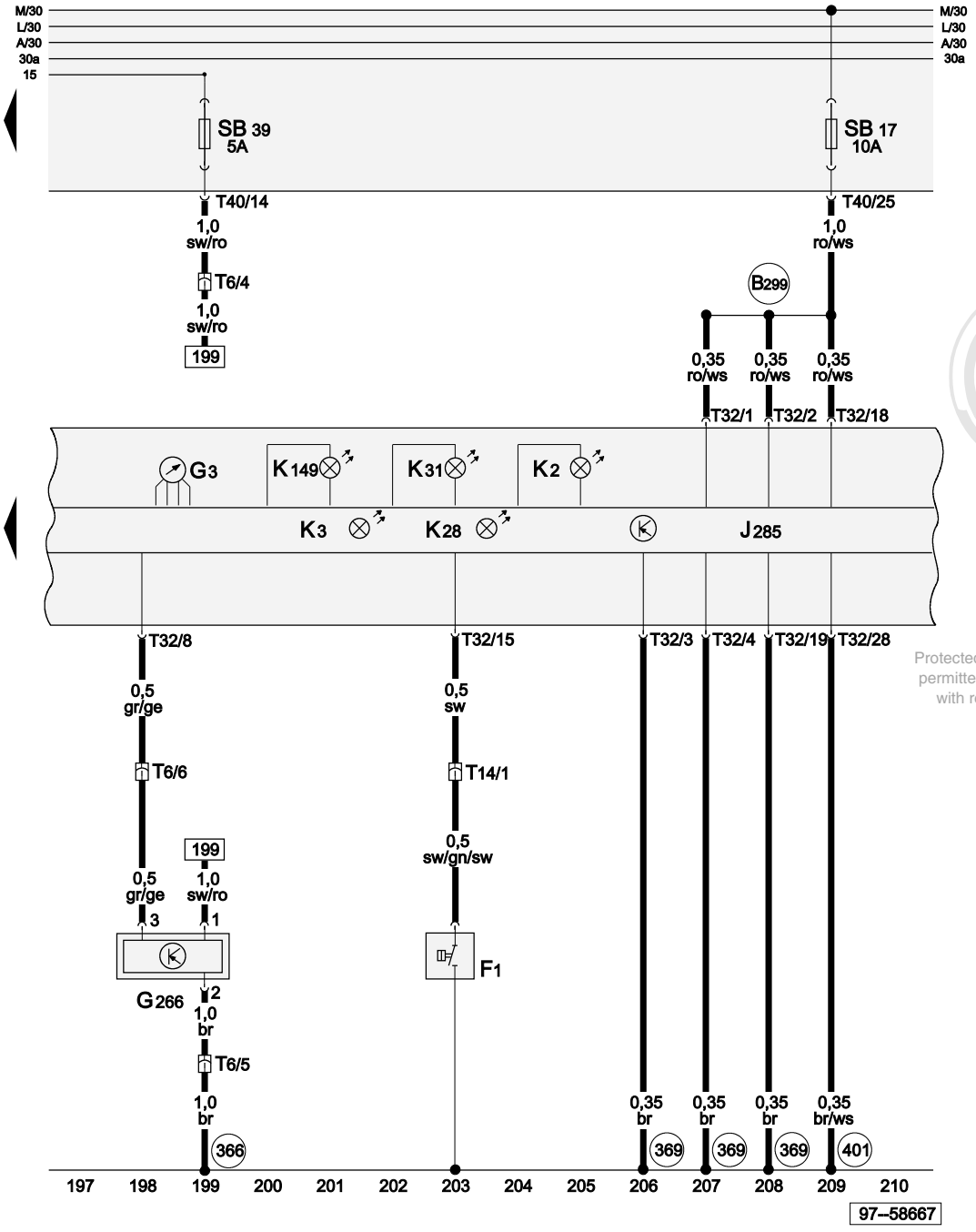


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Data bus diagnostic interface, control unit with display in dash panel insert

G1	Fuel gauge
J285	Control unit with display in dash panel insert
J533	Data bus diagnostic interface
K16	Reserve fuel warning lamp
SB24	Fuse -24- on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection -4-, in main wiring harness
B277	Positive connection -1- (15a), in main wiring harness
B301	Positive connection -5- (30), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Oil pressure switch, control unit with display in dash panel insert

F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit with display in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature/coolant shortage warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse -17- on fuse holder
SB39	Fuse -39- on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection -1-, in main wiring harness
369	Earth connection -4-, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection -3- (30), in main wiring harness

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sw	=	black
ro	=	red
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ge	=	yellow
or	=	orange
rs	=	pink

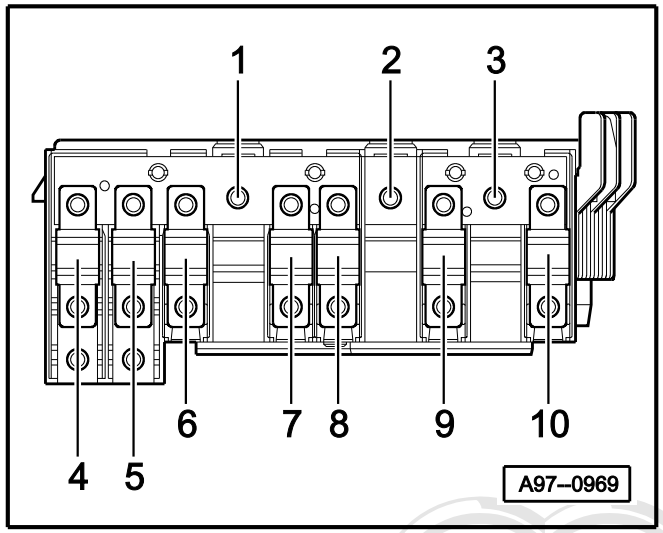
2.0 l - Diesel engine (100 kW - unit injectors - 4 cylinder), engine code AZV

from November 2003

2.0 l - Diesel engine (103 kW - unit injectors - 4 cylinder), engine code BKD

from model year 2004

Main fuse holder, electronics box



- On electronics box, in engine compartment, front left

Main supply connection
2 - Screw connection M (terminal 30)

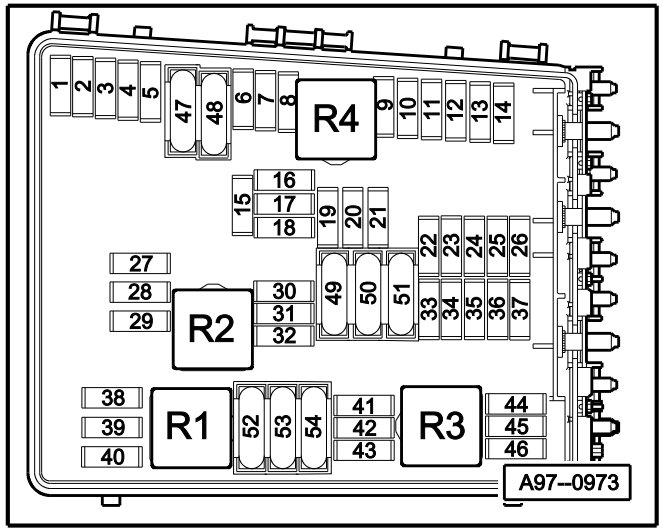
Fuse locations
4 - Fuse 1 on fuse holder/battery (SA1)
5 - Fuse 2 on fuse holder/battery (SA2)
6 - Fuse 3 on fuse holder/battery (SA3)
7 - Fuse 4 on fuse holder/battery (SA4)
8 - Fuse 5 on fuse holder/battery (SA5)
9 - Fuse 6 on fuse holder/battery (SA6)

Note:

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- *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
30 A - green
25 A - white
15 A - blue
10 A - red
5 A - beige

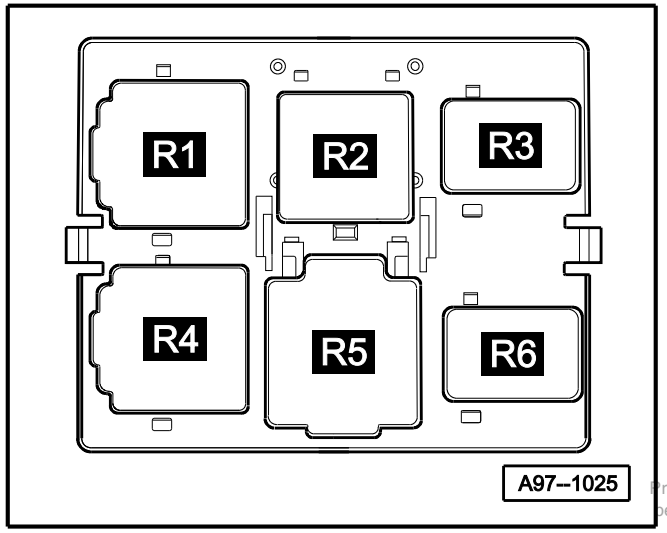
Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

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Position of relays
R1 - Terminal 15 voltage supply relay - J329
R2 - Terminal 50 voltage supply relay - J682
R4 - Terminal 30 voltage supply relay - J317

6-point relay carrier

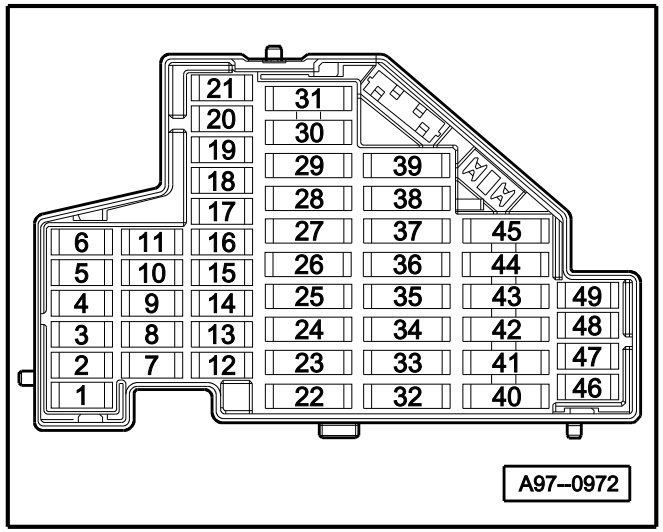


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- Under electronics box in engine compartment, left

Position of relays
R2 - Automatic glow period control unit - J179

Fuse holder



- Driver side dash panel

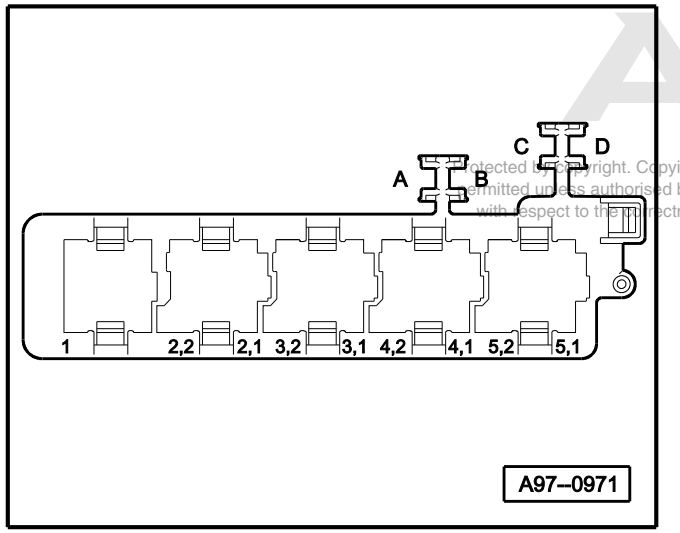
Fuse colours

15 A - blue
10 A - red
5 A - beige

Note:

♦ *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

5-point relay carrier



♦ Above the onboard power supply control unit, dash panel, driver side, bottom left

Position of relays

2.1 - Fuel pump relay - J17

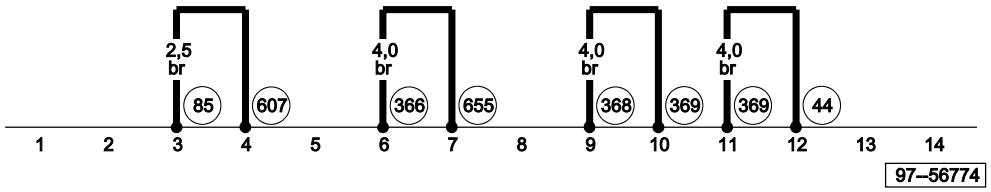
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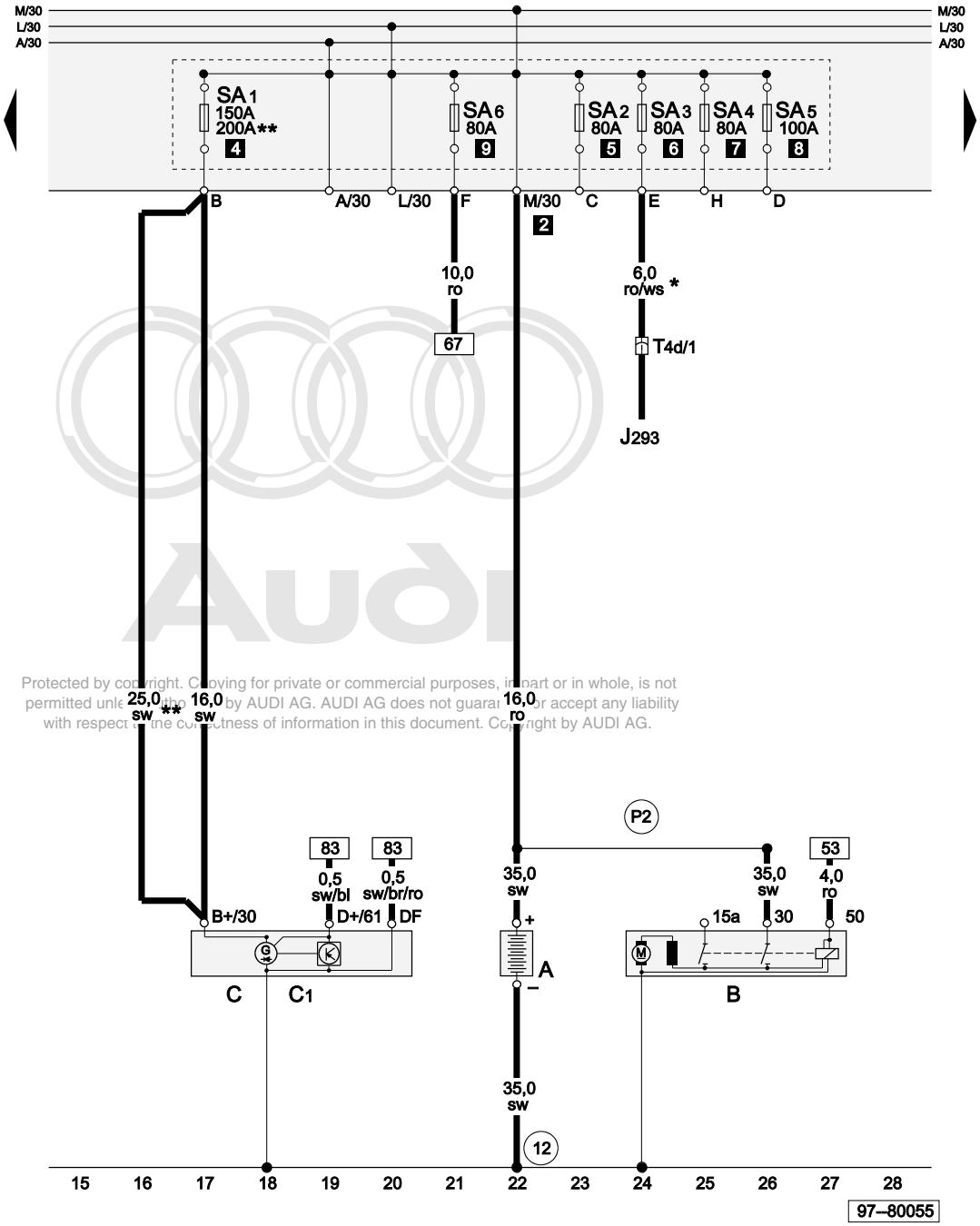
Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection -1-, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight

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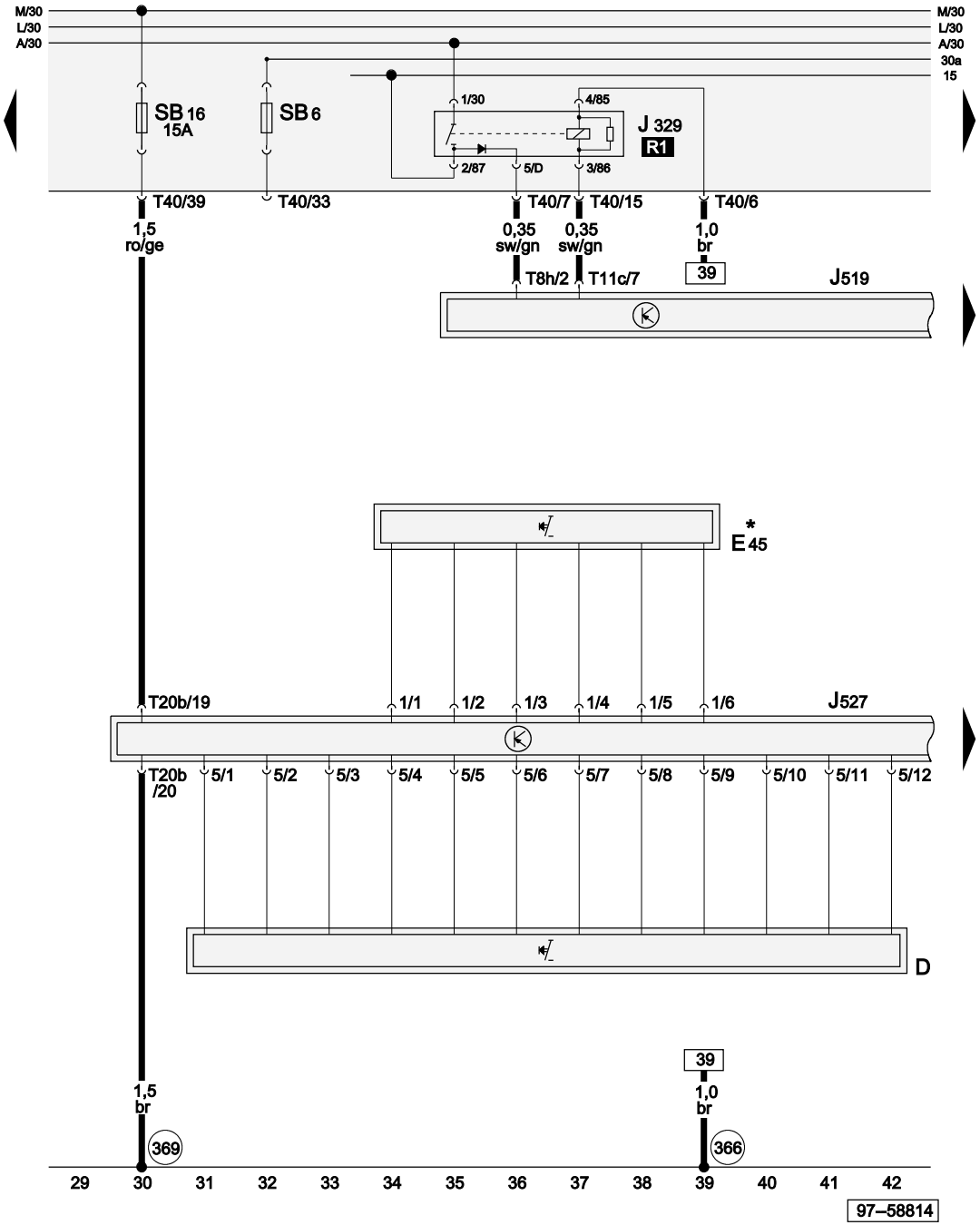


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Starter, battery, alternator, fuses on fuse holder/battery

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J293	Radiator fan control unit
SA1	Fuse 1 on fuse holder/battery
SA2	Fuse 2 on fuse holder/battery
SA3	Fuse 3 on fuse holder/battery
SA4	Fuse 4 on fuse holder/battery
SA5	Fuse 5 on fuse holder/battery
SA6	Fuse 6 on fuse holder/battery
T4d	4-pin connector, black, on radiator fan (front end)
12	Earth point, on left in engine compartment
P2	Positive connection (30), in battery wiring harness
*	See applicable Current Flow Diagram: radiator fan control for diesel engines
**	for models with alternator (140A) only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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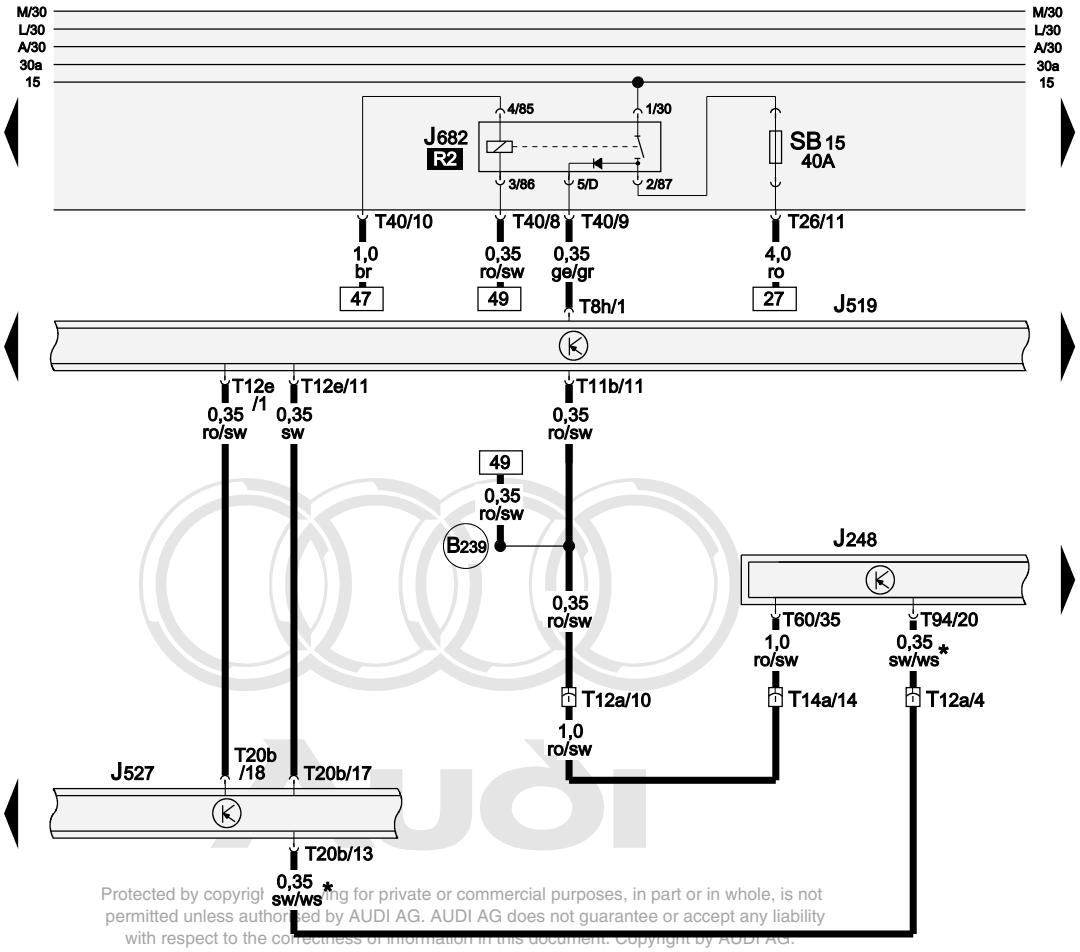


Terminal 15 voltage supply relay, cruise control system switch, ignition/starter switch

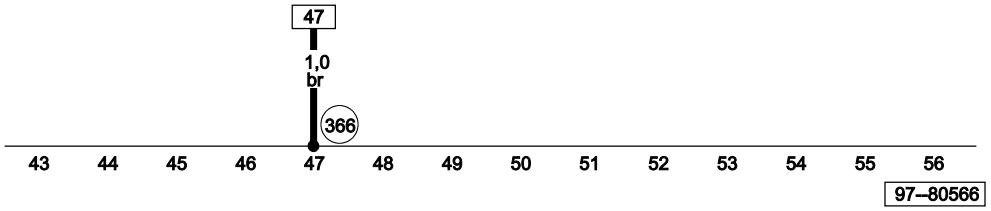
D	Ignition/starter switch
E45	Cruise control system switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB6	Fuse 6 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
*	for models with cruise control system only

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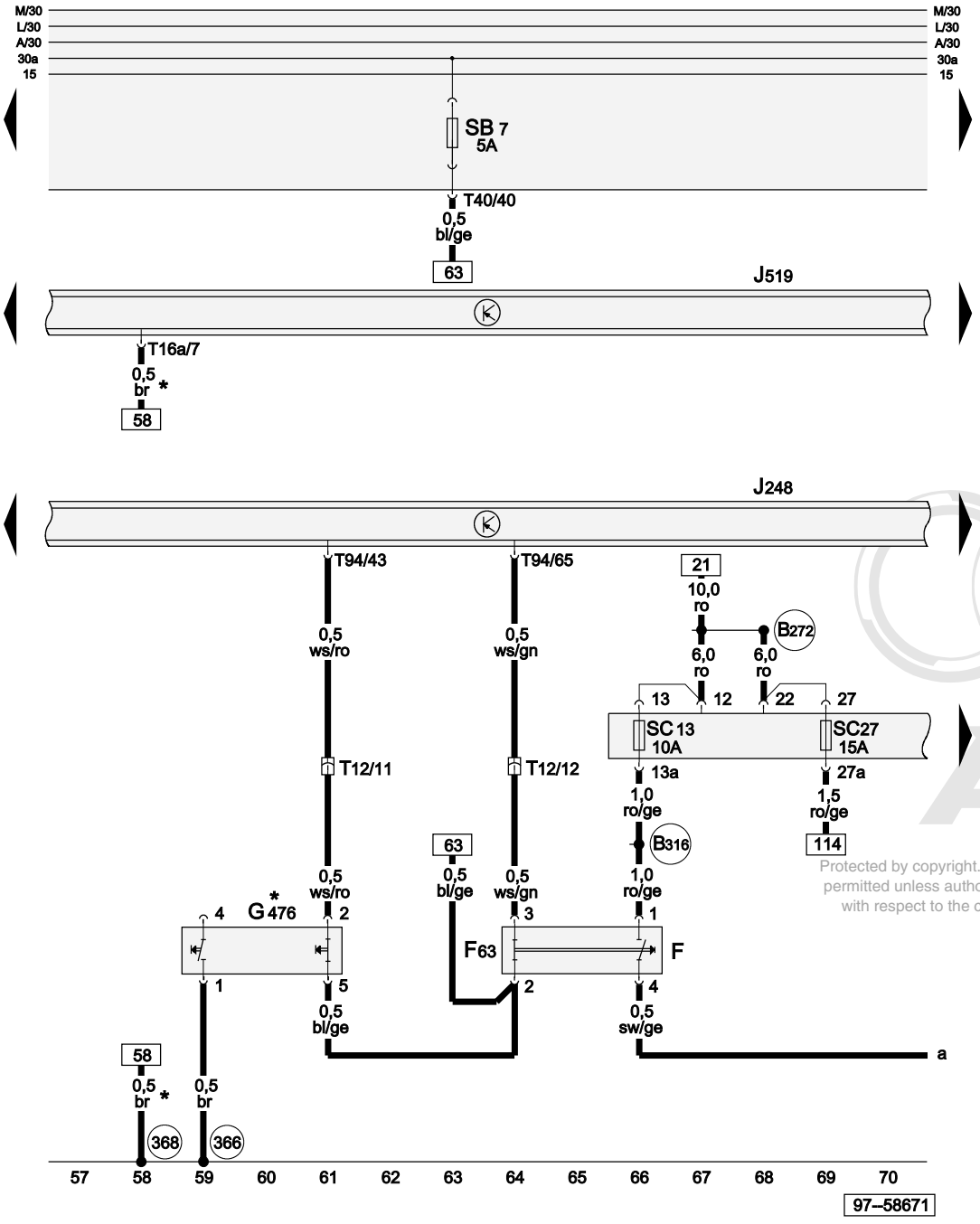
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Terminal 50 voltage supply relay

J248	Diesel direct injection system control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12a	12-pin connector, blue, in plenum chamber
T12e	12-pin connector, black (connector G)
T14a	14-pin connector, black, near relay carrier electronics box
T20b	20-pin connector, black (connector A)
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
366	Earth connection 1, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	for models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

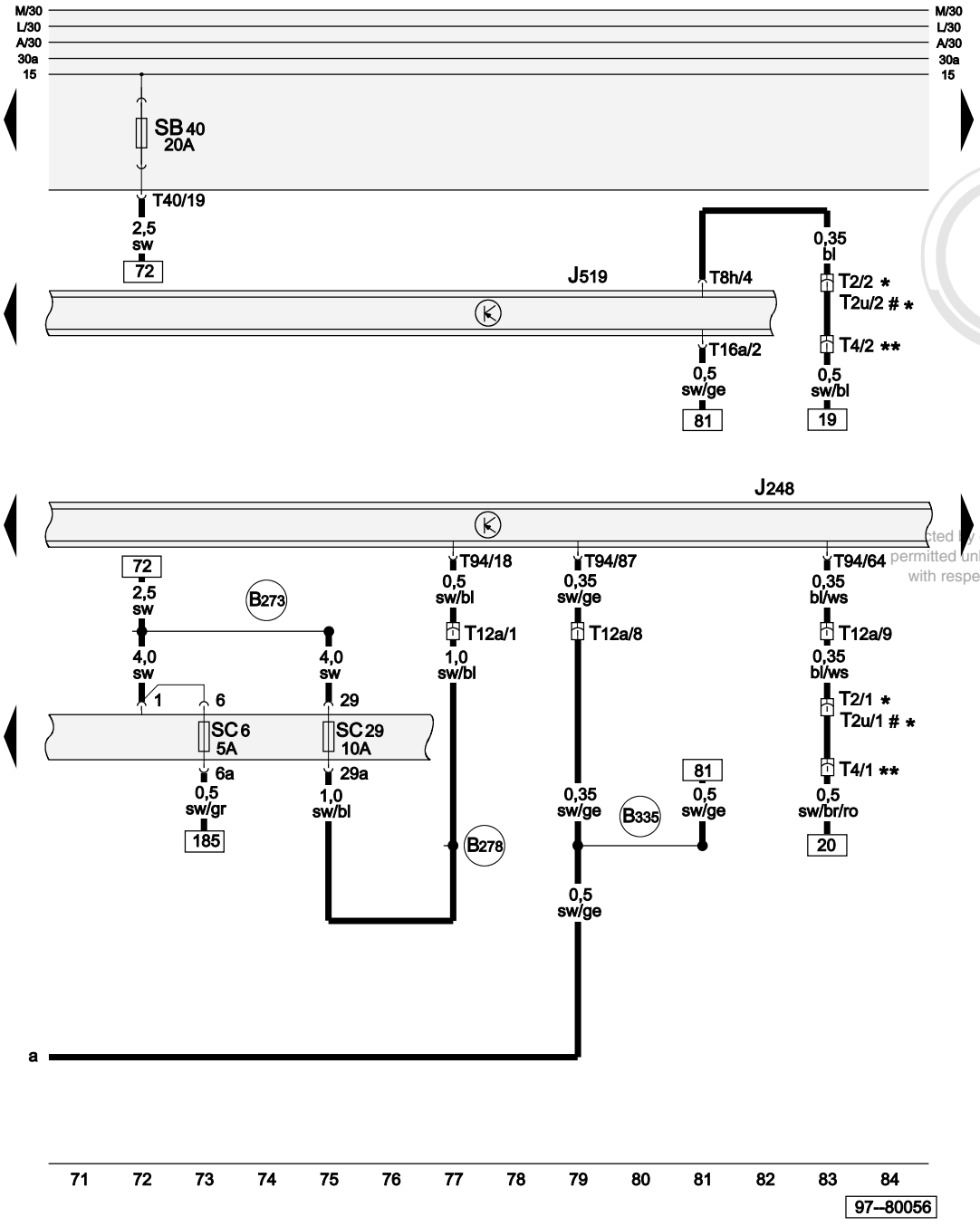


Brake light switch, brake pedal switch, clutch position sender, fuses on fuse holder

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
SB7	Fuse 7 on fuse holder
SC13	Fuse 13 on fuse holder
SC27	Fuse 27 on fuse holder
T12	12-pin connector, green, in plenum chamber
T16a	16-pin connector, black (connector E)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
B272	Positive connection (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
*	for models with manual gearbox only

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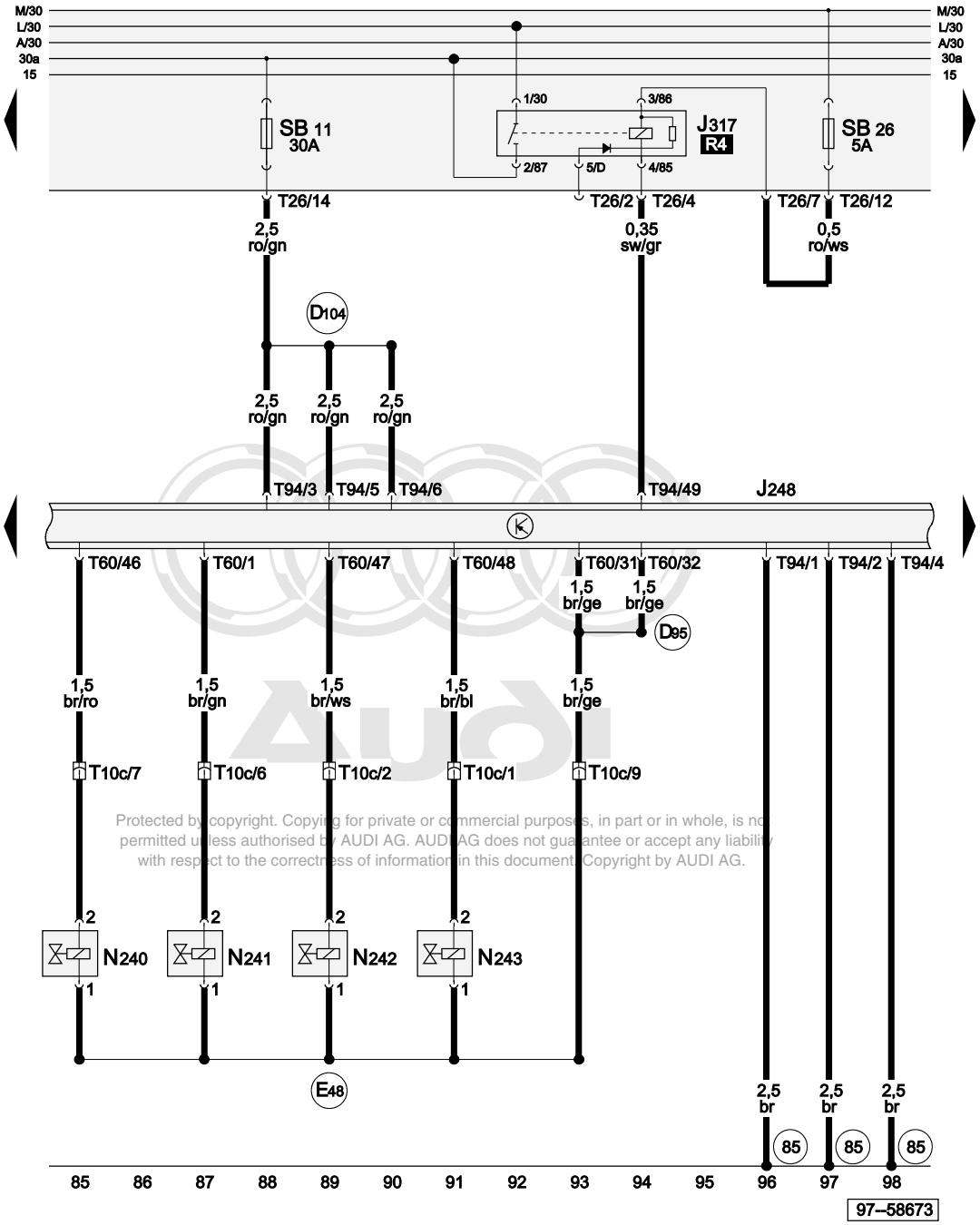


Fuses on fuse holder

J248	Diesel direct injection system control unit
J519	Onboard supply control unit
SB40	Fuse 40 on fuse holder
SC6	Fuse 6 on fuse holder
SC29	Fuse 29 on fuse holder
T2	2-pin connector, black, in front left engine compartment
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T12a	12-pin connector, blue, in plenum chamber
T16a	16-pin connector, black (connector E)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	for models without air conditioning system only
**	for models with air conditioning system only
#	T2 is replaced by T2u, applicable from November 2003

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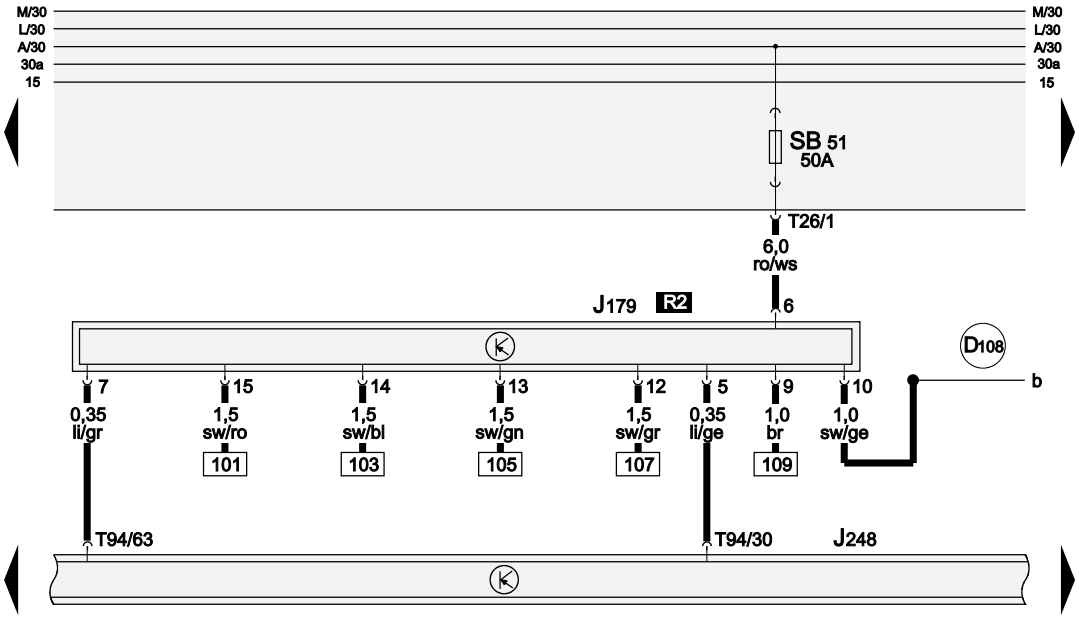


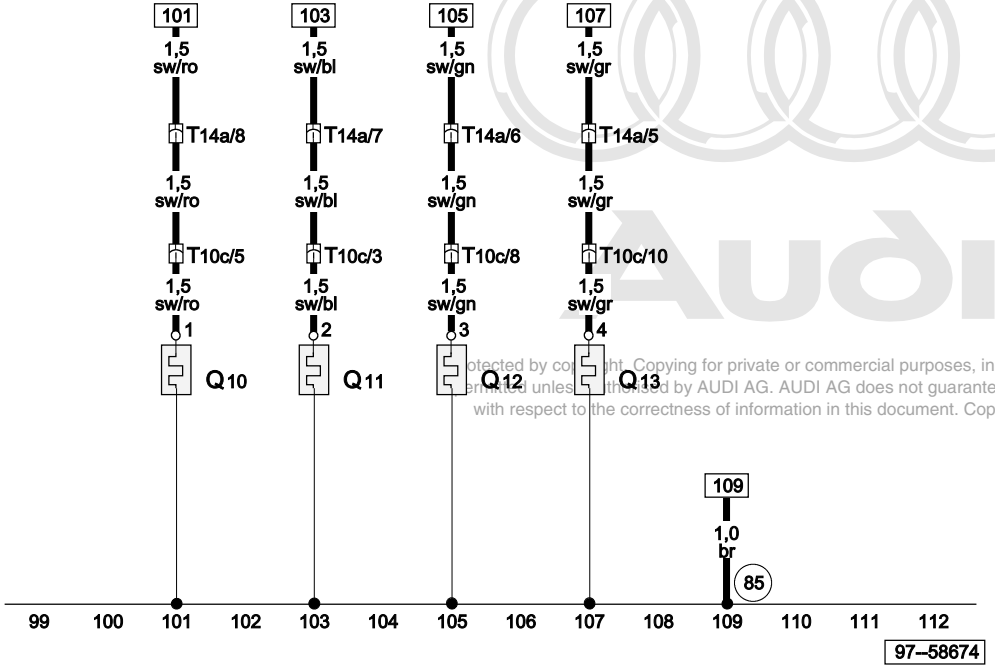
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Terminal 30 voltage supply relay, unit injector valves

J248	Diesel direct injection system control unit
J317	Terminal 30 voltage supply relay
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB11	Fuse 11 on fuse holder
SB26	Fuse 26 on fuse holder
T10c	10-pin connector, black, in engine compartment
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
85	Earth connection -1-, in engine compartment wiring harness
D95	Connection (injectors), in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness



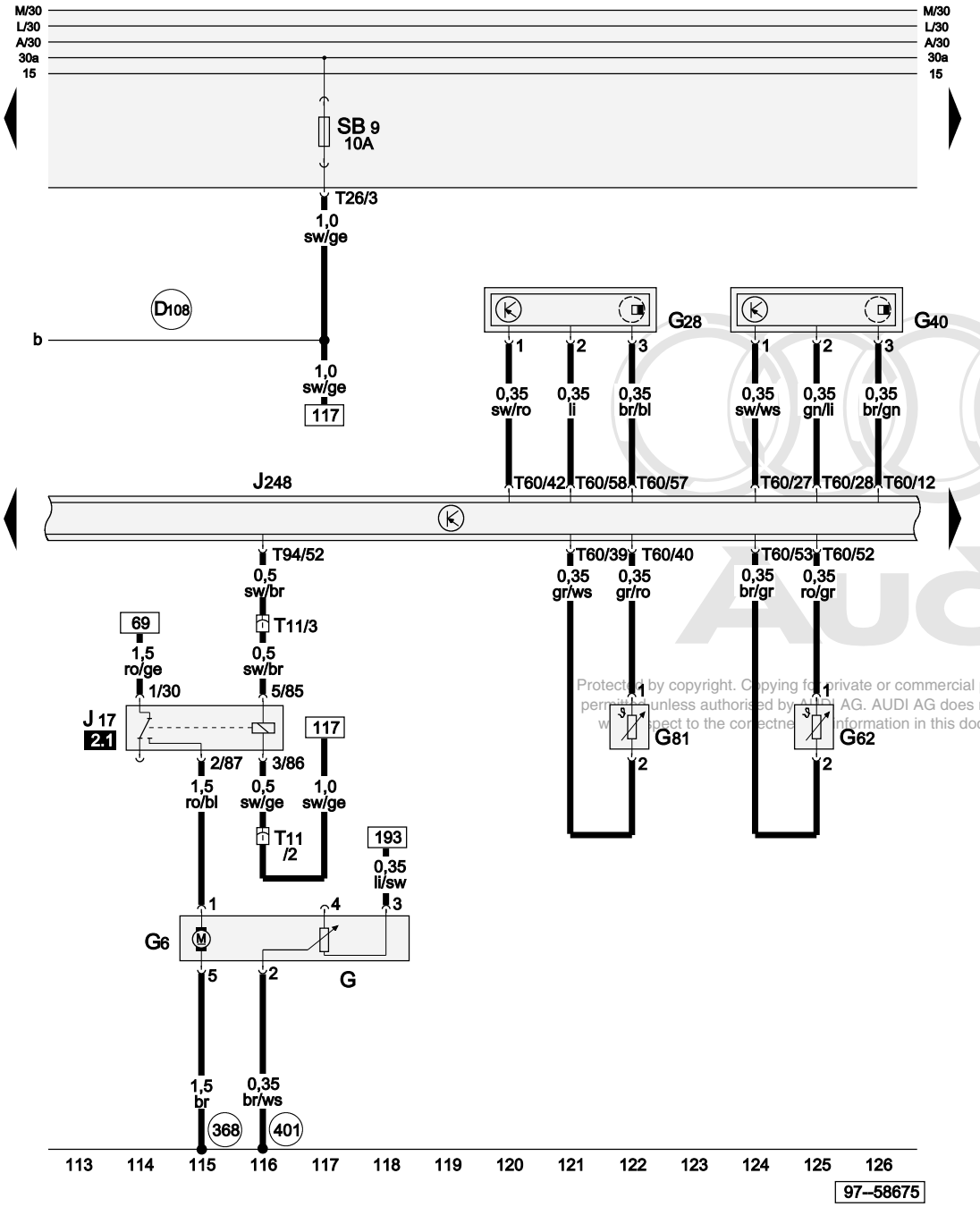


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Glow plugs, automatic glow period control unit

J179	Automatic glow period control unit
J248	Diesel direct injection system control unit
SB51	Fuse 51 on fuse holder
T10c	10-pin connector, black, in engine compartment
T14a	14-pin connector, black, near relay carrier electronics box
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
85	Earth connection -1-, in engine compartment wiring harness
D108	Connection 6, in engine compartment wiring harness

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gn	=	green
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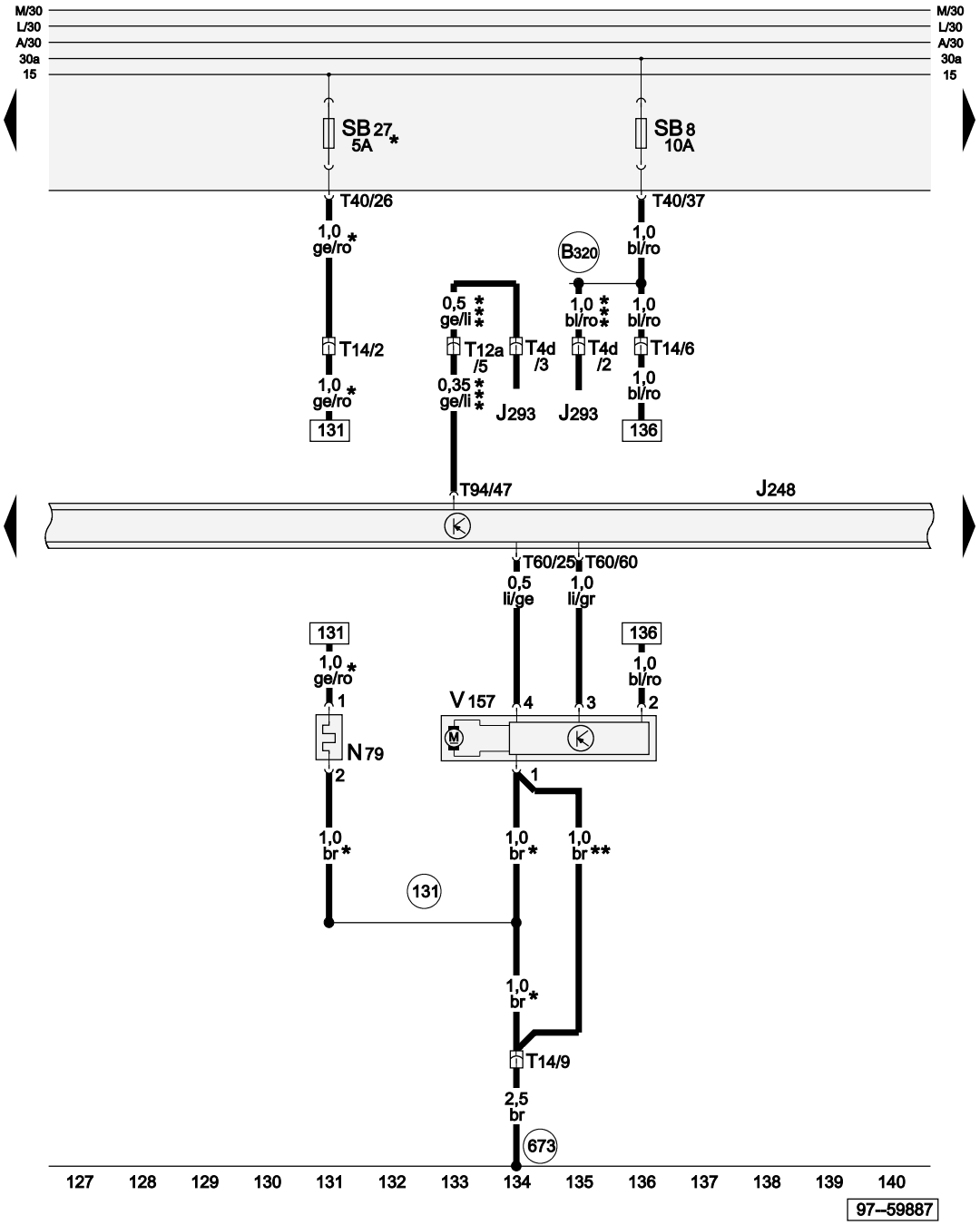


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Fuel pump, fuel gauge sender, fuel temperature, coolant temperature sender, engine speed

G	Fuel gauge sender
G6	Fuel pump (pre-supply pump)
G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J17	Fuel pump relay
J248	Diesel direct injection system control unit
SB9	Fuse 9 on fuse holder
T11	11-pin connector, white, in plenum chamber
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
D108	Connection 6, in engine compartment wiring harness

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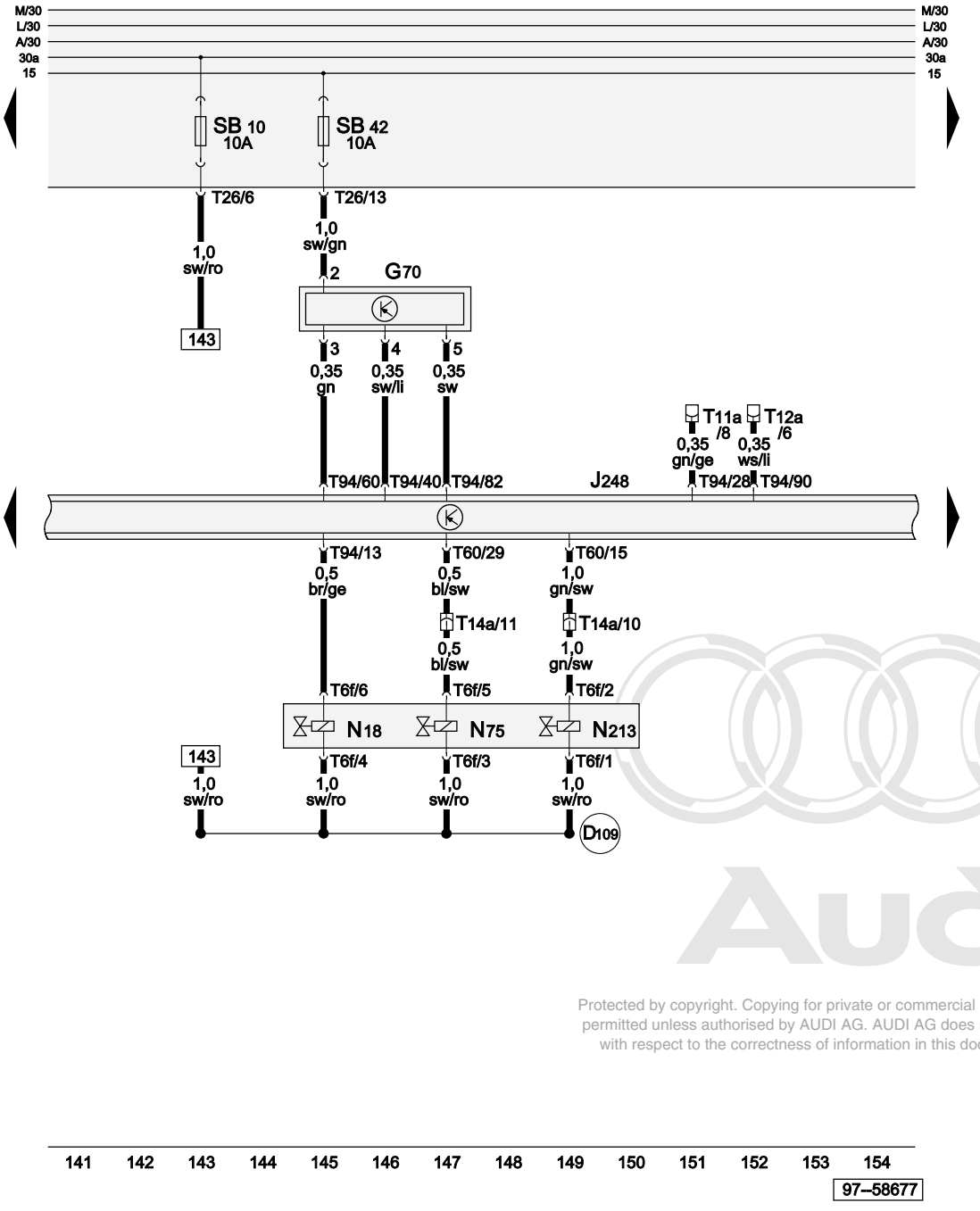


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gr = grey
li = purple
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rs = pink

Heater element (crankcase breather), intake manifold flap motor

J248	Diesel direct injection system control unit
J293	Radiator fan control unit
SB8	Fuse 8 on fuse holder
SB27	Fuse 27 on fuse holder
N79	Heater element for crankcase breather
T4d	4-pin connector, black, on radiator fan (front end)
T12a	12-pin connector, blue, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V157	Intake manifold flap motor
131	Earth connection -2-, in engine compartment wiring harness
673	Earth point 3, on front of left longitudinal member
B320	Positive connection 6 (30a), in main wiring harness
*	with heater element
**	Without heater element
***	See applicable Current Flow Diagram: radiator fan control for diesel engines

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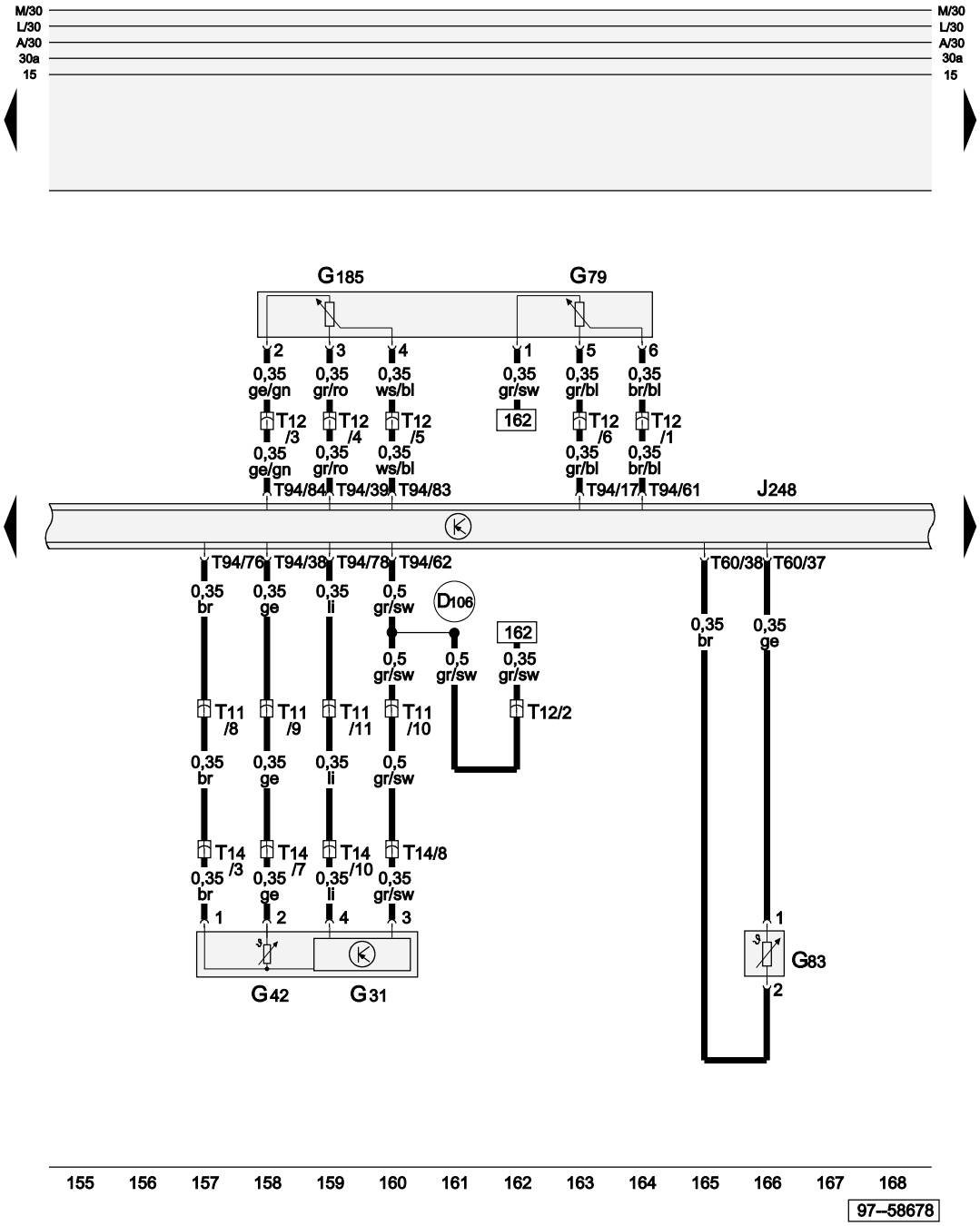


Air mass meter, exhaust gas recirculation valve, charge pressure control solenoid valve

G70	Air mass meter
J248	Diesel direct injection system control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N213	Exhaust gas recirculation valve 2
SB10	Fuse 10 on fuse holder
SB42	Fuse 42 on fuse holder
T6f	6-pin connector, black, on valve block
T11a	11-pin connector, red, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T14a	14-pin connector, black, near relay carrier electronics box
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D109	Connection 7, in engine compartment wiring harness

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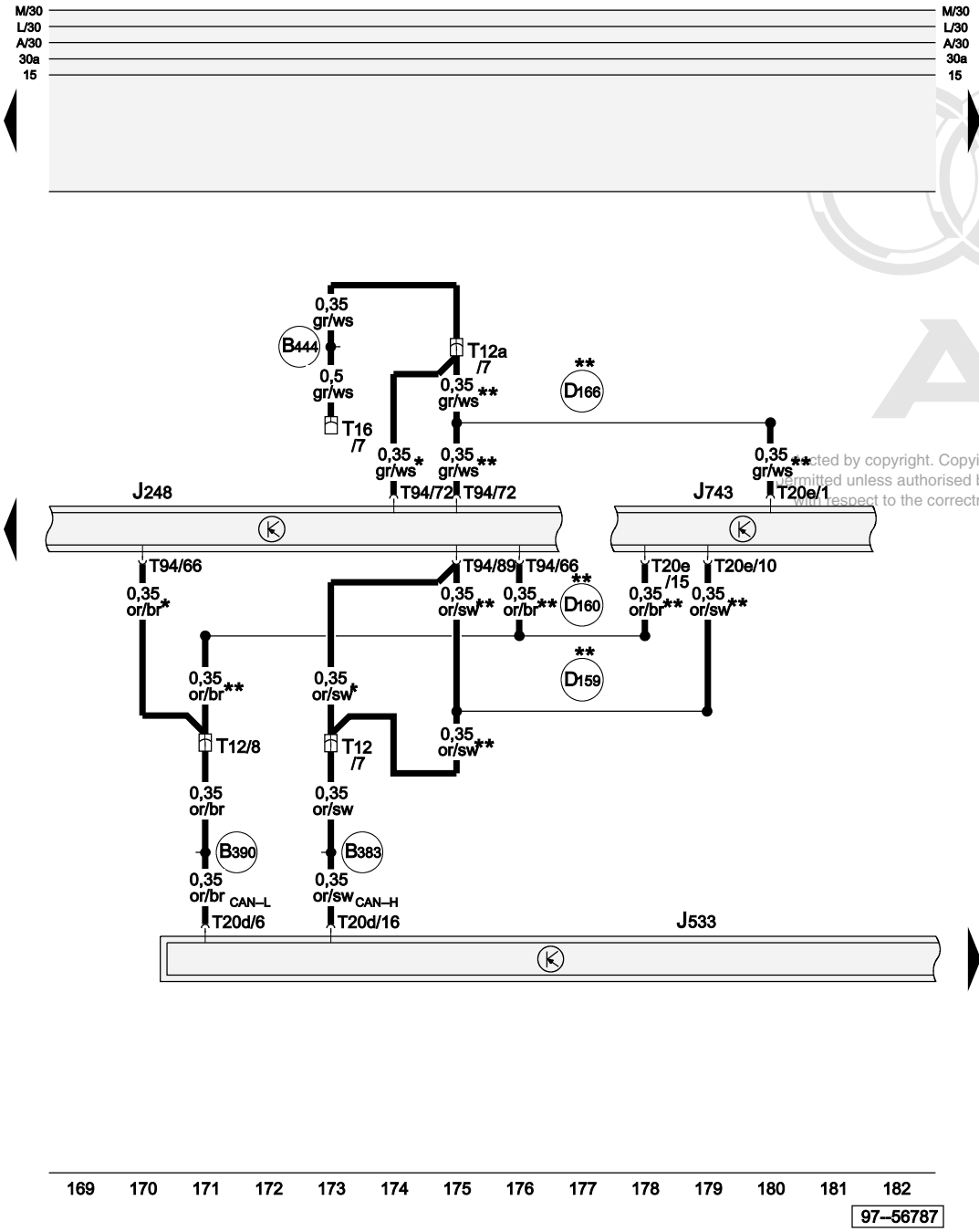


Charge air pressure sender, intake air temperature sender, accelerator position sender, lambda probe

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender -2-
J248	Diesel direct injection system control unit
T11	11-pin connector, white, in plenum chamber
T12	12-pin connector, green, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D106	Connection 4, in engine compartment wiring harness

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or	=	orange
rs	=	pink

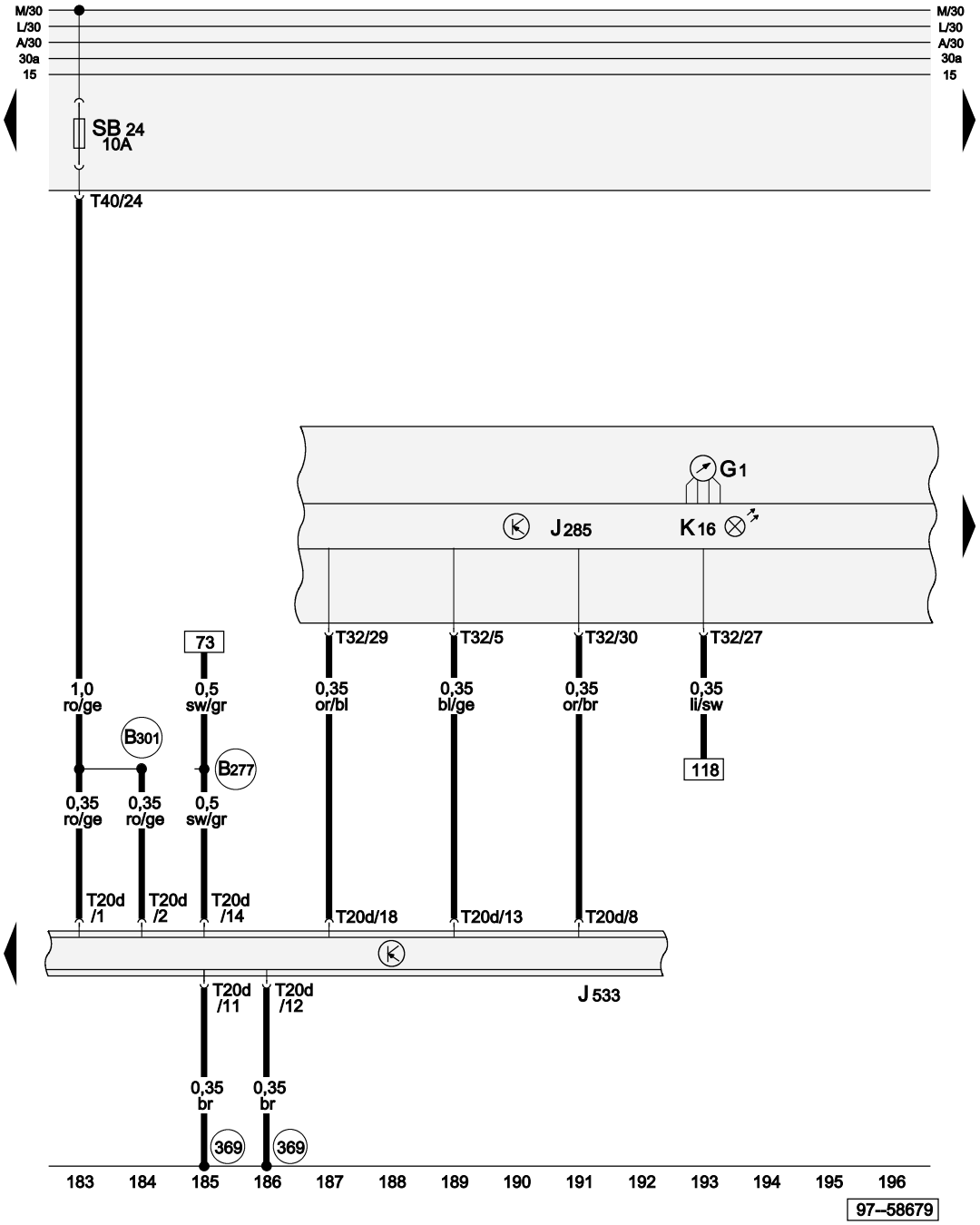


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Drive train CAN bus, K-diagnosis wiring

J248	Diesel direct injection system control unit
J533	Data bus diagnostic interface
J743	Mechatronics for direct shift gearbox
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
D159	Connection (high bus), in engine compartment wiring harness
D160	Connection (low bus), in engine compartment wiring harness
D166	Connection (K-diagnosis wiring), in engine compartment wiring harness
*	for models with manual gearbox only
**	for models with direct shift gearbox (02E) only

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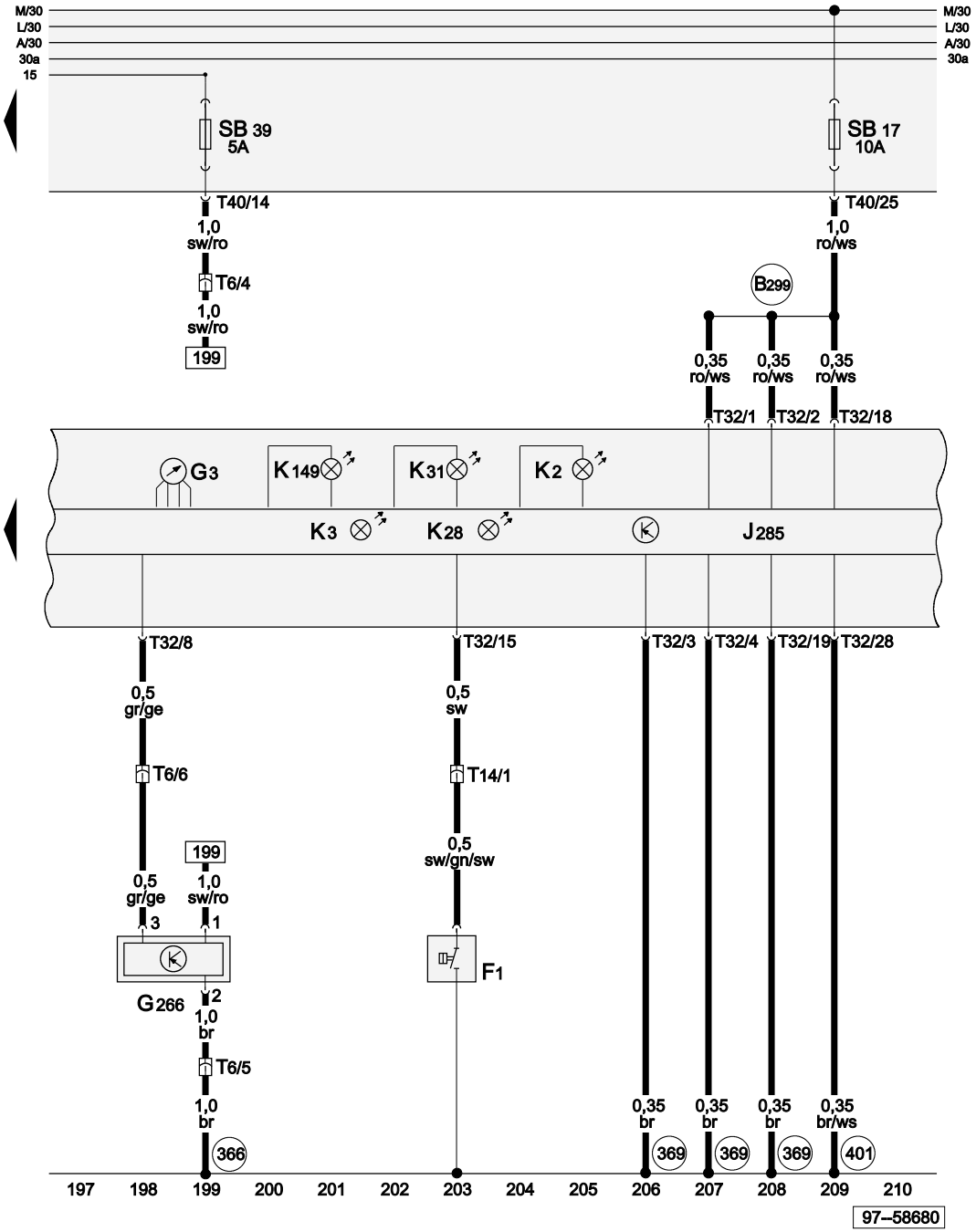


Data bus diagnostic interface, control unit with display in dash panel insert

G1	Fuel gauge
J285	Control unit with display in dash panel insert
J533	Data bus diagnostic interface
K16	Reserve fuel warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B301	Positive connection -5- (30), in main wiring harness

ws	=	white
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ro	=	red
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Oil pressure switch, control unit with display in dash panel insert

F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit with display in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature/coolant shortage warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection -3- (30), in main wiring harness

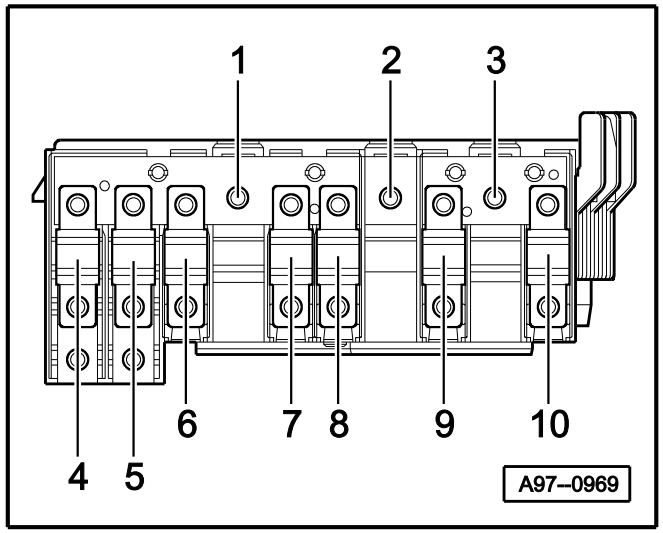
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Radiator fan control - 520 W (with and without air conditioning system)

⇒ **1.6 litre fuel injection engine (75 kW - Simos - 4-cylinder), engine code BGU**

From model year 2004

Main fuse box, electronics box



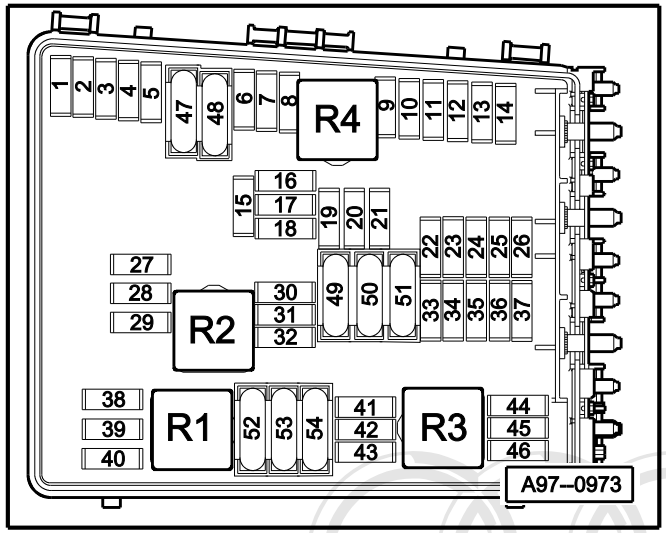
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♦ At electronics box, in engine compartment, front left

Main supply connection
2 - Screw connection M (terminal 30)

Position of fuses
6 - Fuse -3- on fuse box/battery (SA3)

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
10 A - red

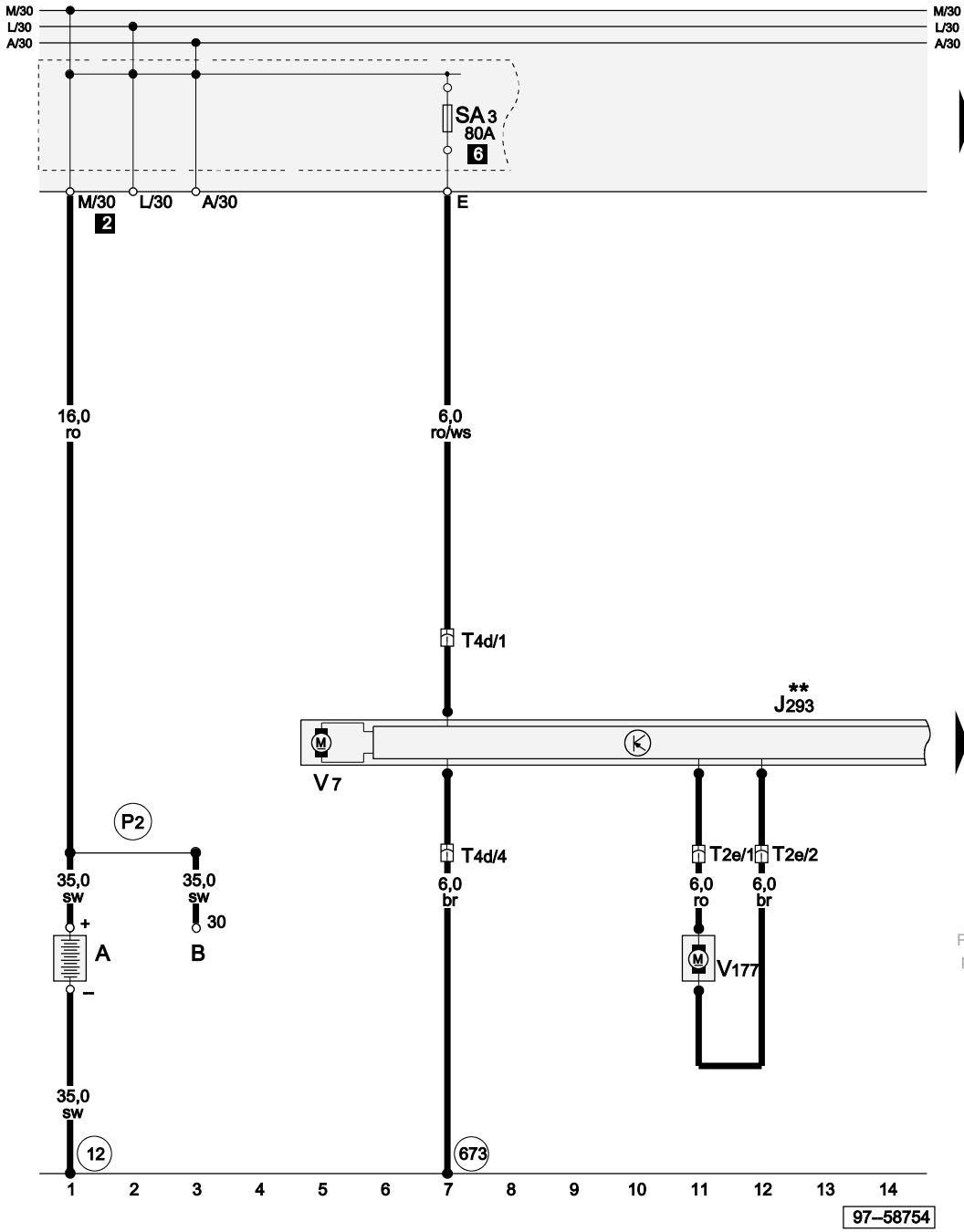
Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays

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R4 - Current supply relay for Simos control unit - J363

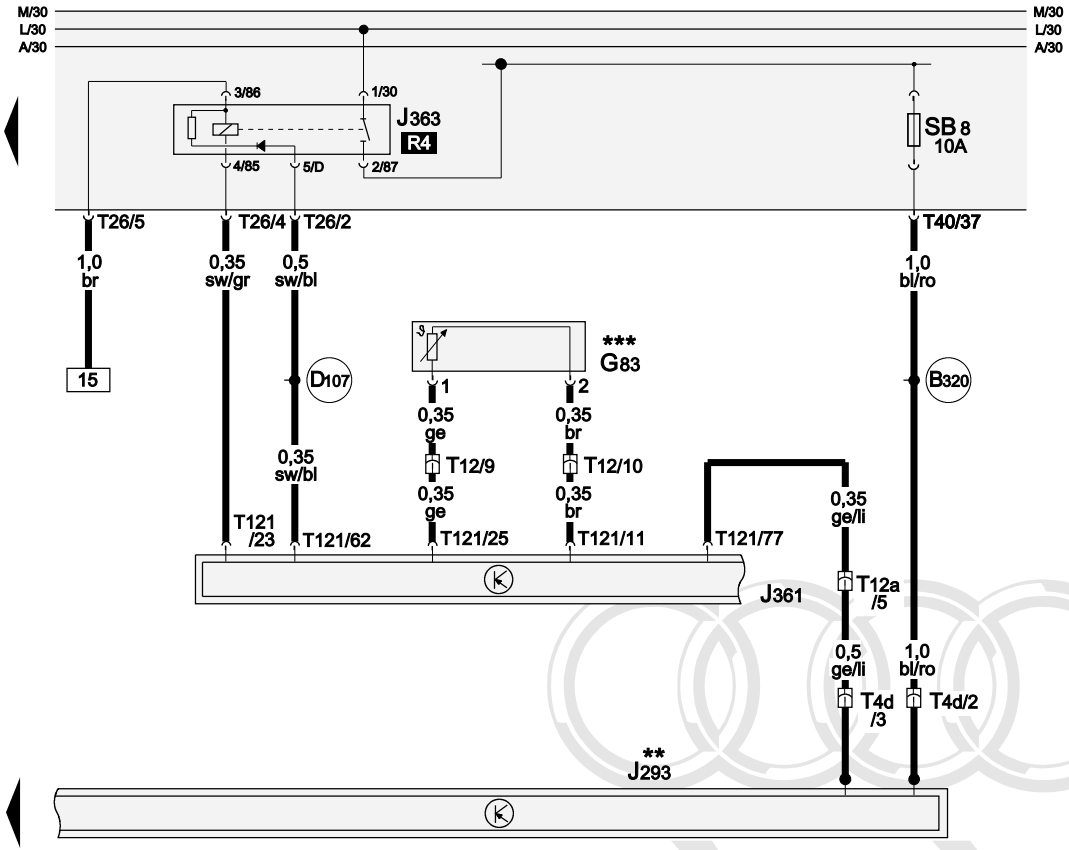


Battery, radiator fan

A	Battery
B	Starter
J293	Radiator fan control unit
SA3	Fuse -3- on fuse box/battery
T2e	2-pin connector, black, at radiator fan (front end)
T4d	4-pin connector, black, at radiator fan (front end)
V7	Radiator fan
V177	Radiator fan -2-
12	Earth point, in engine compartment, left
673	Earth point -3-, on longitudinal member, front left
P2	Positive (+) connection (30), in battery wiring harness
**	Only applies to models with air conditioning system, applicable from November 2003 onwards

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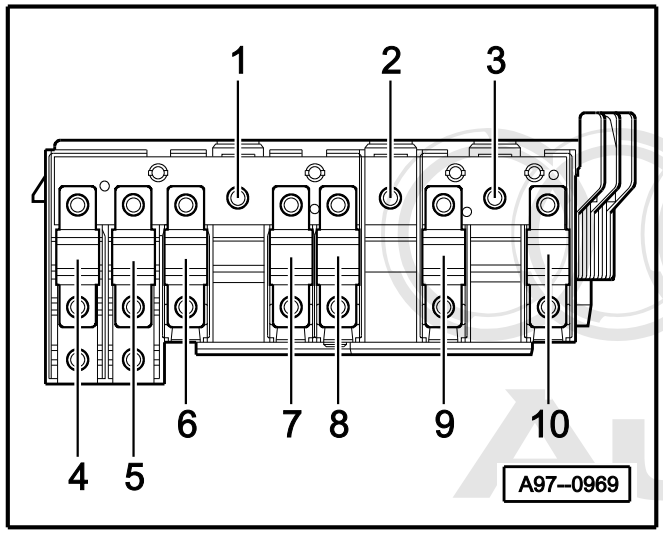
Coolant temperature sender - radiator outlet

G83	Coolant temperature sender - radiator outlet
J293	Radiator fan control unit
J361	Simos control unit
J363	Current supply relay for Simos control unit
SB8	Fuse -8- on fuse box
T4d	4-pin connector, black, at radiator fan (front end)
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T26	26-pin connector, brown, at electronics box, engine compartment (connector K)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
85	Earth connection -1-, in engine compartment wiring harness
607	Earth point, in plenum chamber, left
B320	Positive (+) connection -6- (30a), in main wiring harness
D107	Connection -5-, in engine compartment wiring harness
**	Only applies to models with air conditioning system, applicable from November 2003 onwards
***	Only applies to models with coolant temperature sender - radiator outlet

Radiator fan control for FSI engines - 340 W, 520 W (with and without air conditioning system)

⇒ **1.6 litre fuel injection engine (85 kW - FSI - 4-cylinder), engine code BAG**
⇒ **2.0 litre fuel injection engine (110 kW - FSI - 4-cylinder), engine code AXW**
From model year 2004

Main fuse box, electronics box



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◆ At electronics box, in engine compartment, front left

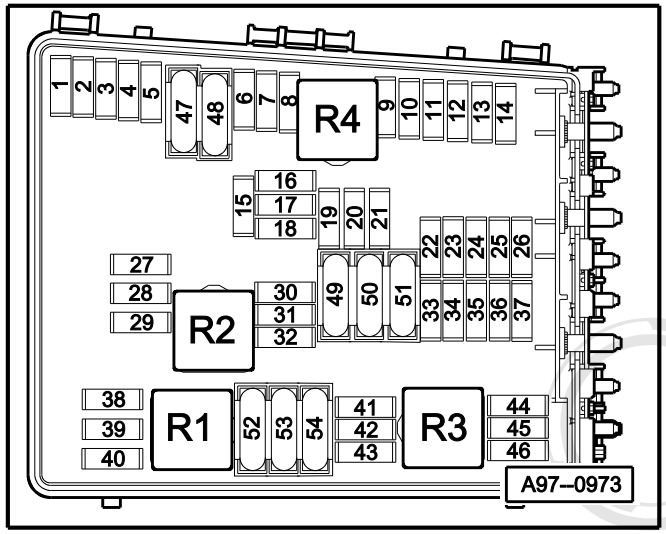
Main supply connection
2 - Screw connection M (terminal 30)

Position of fuses
6 - Fuse -3- on fuse box/battery (SA3)

Note:

◆ *Fuses in main fuse box are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
10 A - red

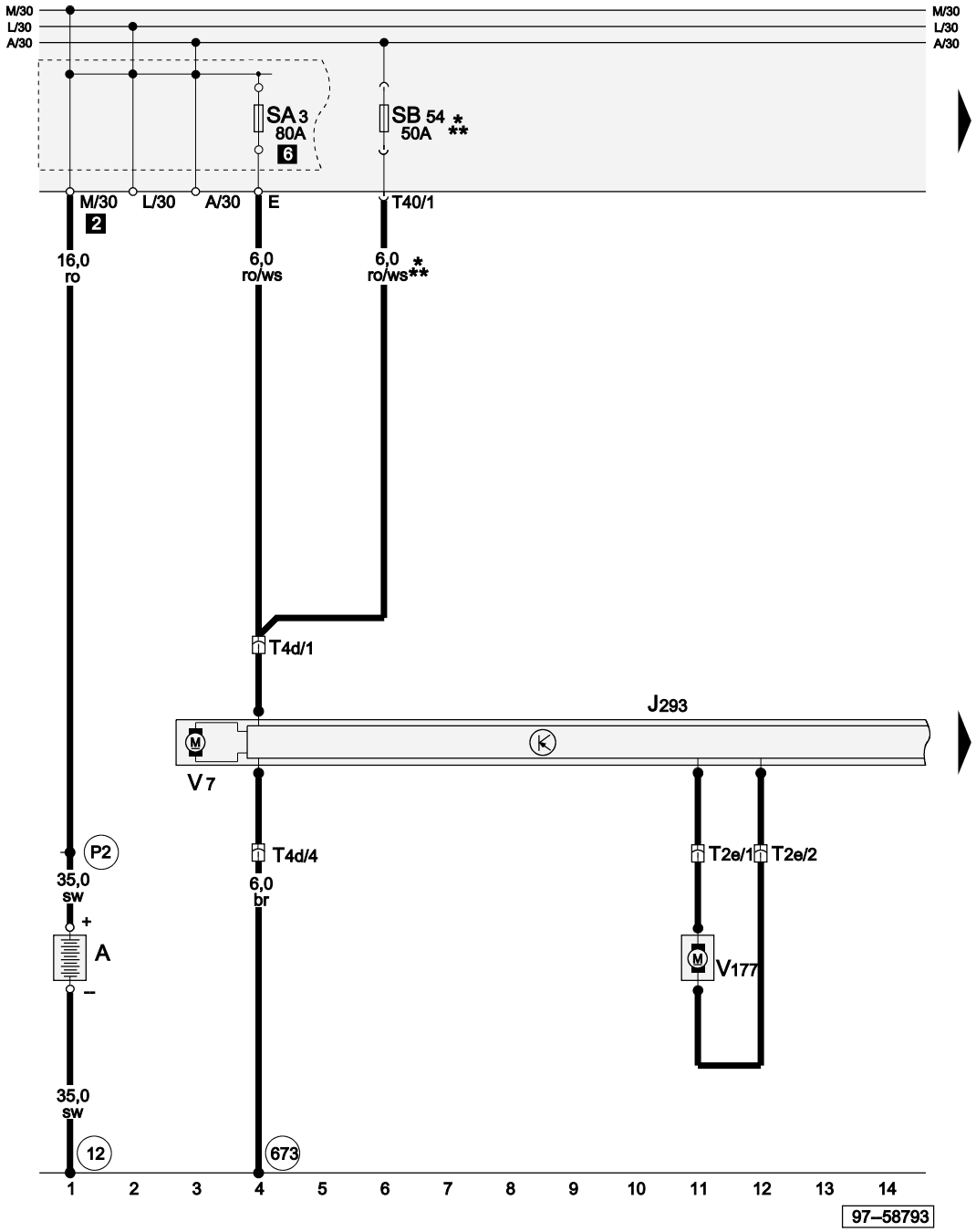
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- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays

R4 - Motronic current supply relay - J271

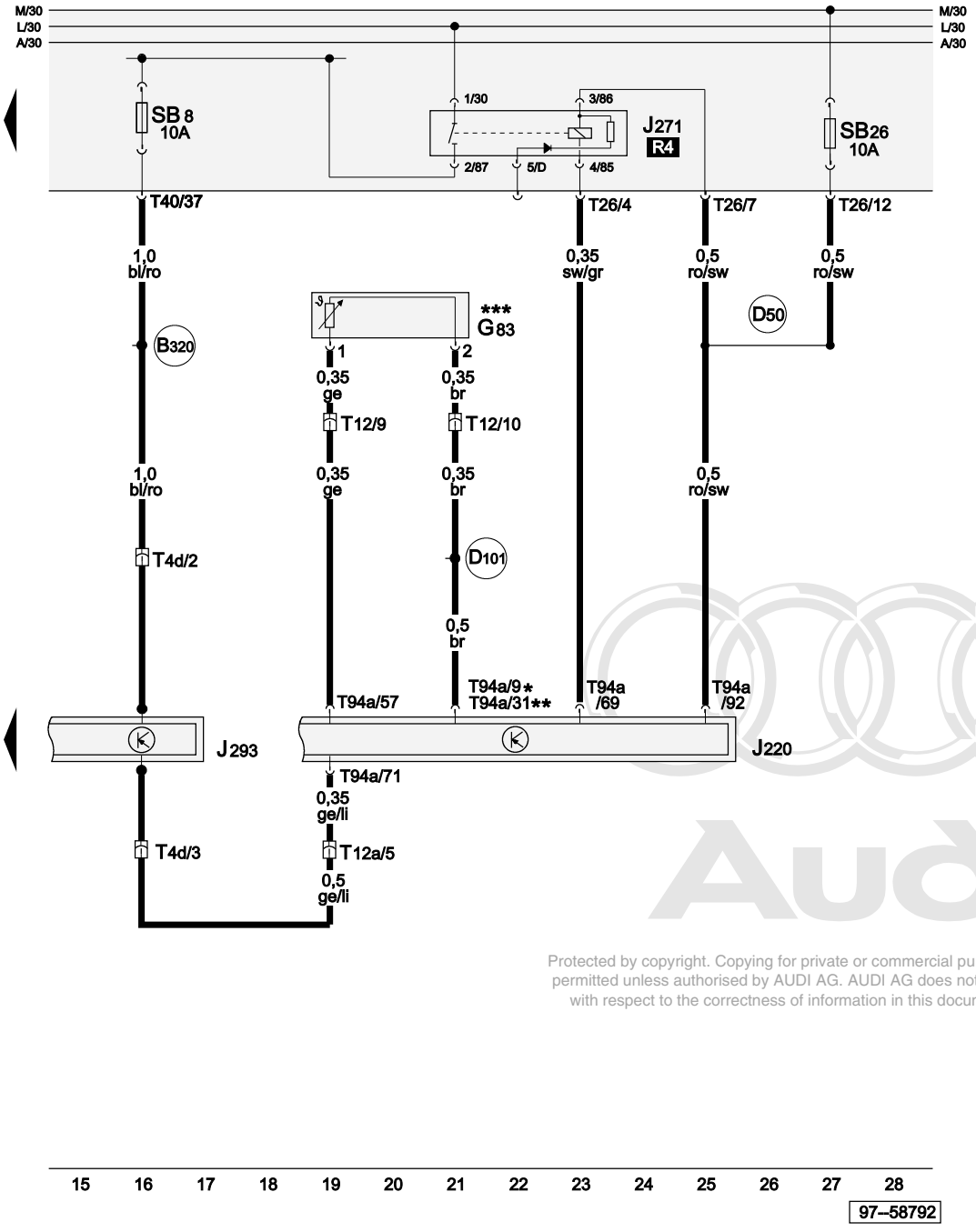


Radiator fan, radiator fan -2-

A	Battery
J293	Radiator fan control unit
SA3	Fuse -3- on fuse box/battery
SB54	Fuse -54- on fuse box
T2e	2-pin connector, black, at radiator fan (front end)
T4d	4-pin connector, black, at radiator fan (front end)
V7	Radiator fan
V177	Radiator fan -2-
12	Earth point, in engine compartment, left
673	Earth point -3-, on longitudinal member, front left
P2	Positive (+) connection (30), in battery wiring harness
*	Only applies to models with air conditioning system, engine code BAG, applicable from November 2003 onwards
**	Only applies to models without air conditioning system, engine code AXW, applicable from December 2003 onwards

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br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Coolant temperature sender - radiator outlet

G83	Coolant temperature sender - radiator outlet
J220	Motronic control unit
J271	Motronic current supply relay
J293	Radiator fan control unit
SB8	Fuse -8- on fuse box
SB26	Fuse -26- on fuse box
T4d	4-pin connector, black, at radiator fan (front end)
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T26	26-pin connector, brown, at electronics box, engine compartment (connector K)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
T94a	94-pin connector, black (connector B)
D50	Positive (+) connection (30), in engine compartment wiring harness
B320	Positive (+) connection -6- (30a), in main wiring harness
D101	Connection -1-, in engine compartment wiring harness
*	Only applies to models with engine code BAG
**	Only applies to models with engine code AXW
***	Only applies to models with coolant temperature sender - radiator outlet

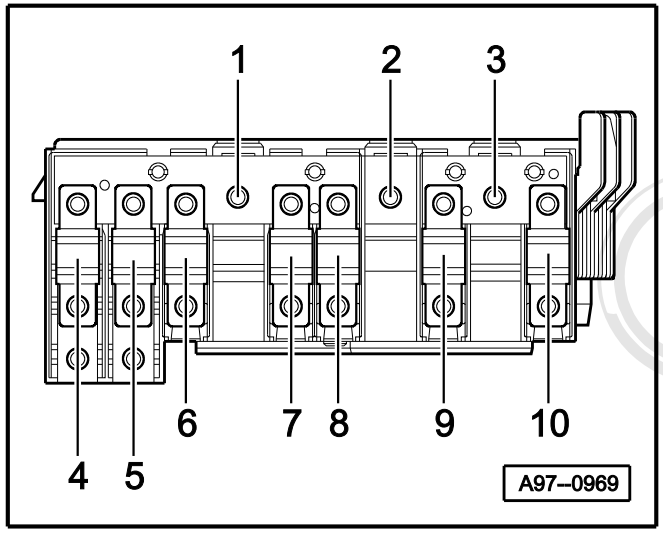
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or	=	orange
rs	=	pink

Radiator fan control for diesel engines - 520 W (with and without air conditioning system)

⇒ **1.9 litre diesel engine (77 kW - unit injector - 4-cylinder), engine code BKC**
⇒ **2.0 litre diesel engine (100 kW - unit injector - 4-cylinder), engine code AZV**
⇒ **2.0 litre diesel engine (103 kW - unit injector - 4-cylinder), engine code BKD**
From model year 2004

Main fuse box, electronics box



◆ At electronics box, in engine compartment, front left

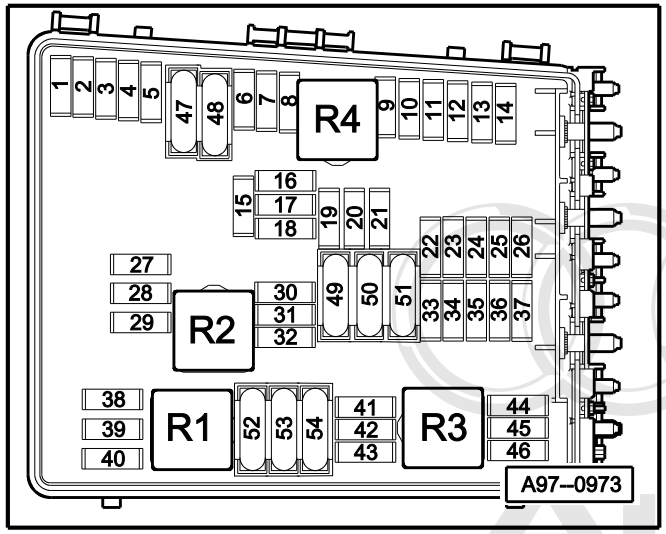
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Main supply connection
2 - Screw connection M (terminal 30)
Position of fuses
6 - Fuse -3- on fuse box/battery (SA3)

Note:

◆ *Fuses in main fuse box are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



- In engine compartment, front left

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Fuse colours

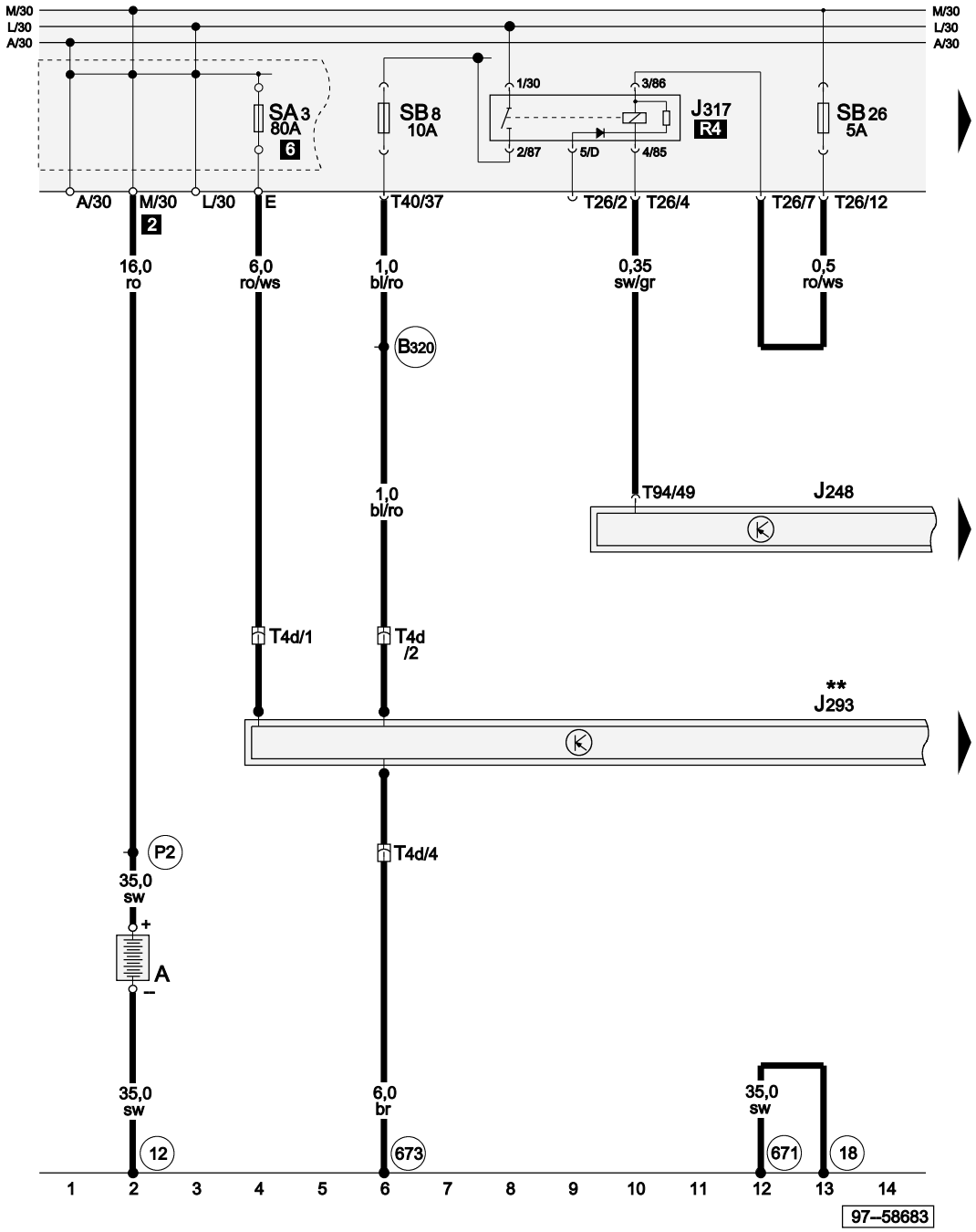
10 A - red
5 A - beige

Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays

R4 - Terminal 30 voltage supply relay - J317



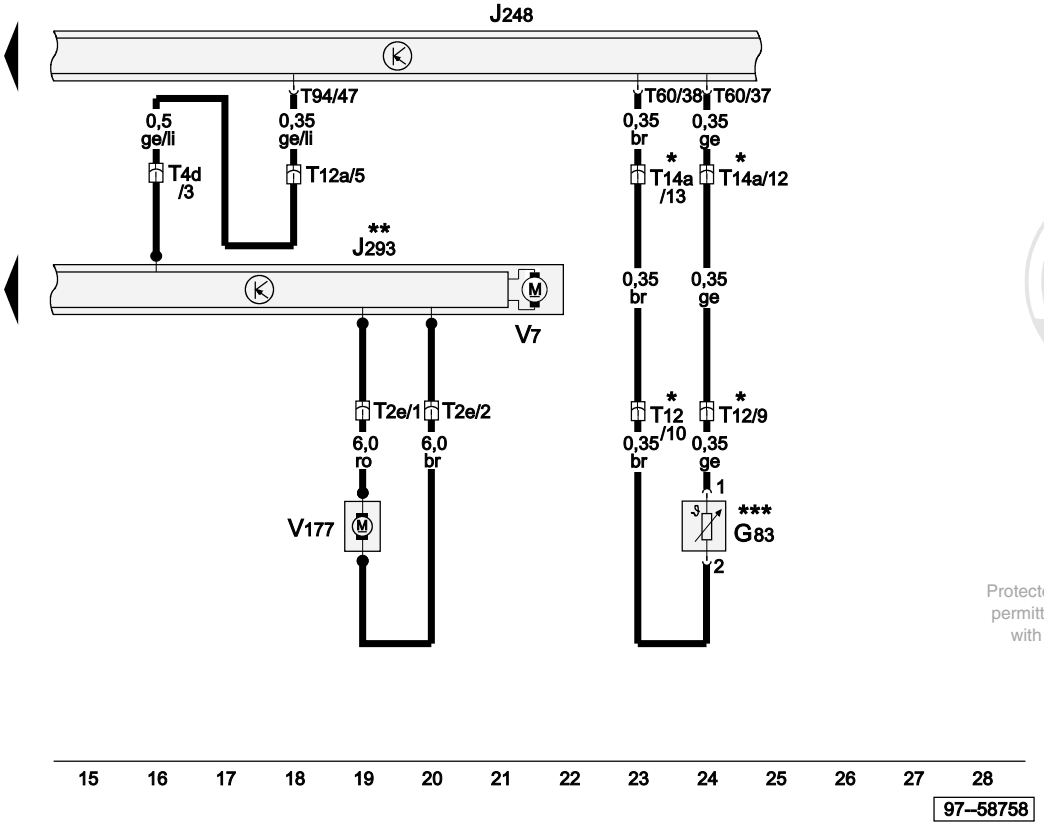
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Battery, terminal 30 voltage supply relay, fuses

A	Battery
J248	Diesel direct injection system control unit
J293	Radiator fan control unit
J317	Terminal 30 voltage supply relay
SA3	Fuse -3- on fuse box/battery
SB8	Fuse -8- on fuse box
SB26	Fuse -26- on fuse box
T4d	4-pin connector, black, at radiator fan (front end)
T26	26-pin connector, brown, at electronics box, engine compartment (connector K)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
T94	94-pin connector, black (connector B)
12	Earth point, in engine compartment, left
18	Earth point, on cylinder block
671	Earth point -1-, on longitudinal member, front left
673	Earth point -3-, on longitudinal member, front left
B320	Positive (+) connection -6- (30a), in main wiring harness
P2	Positive (+) connection (30), in battery wiring harness
**	Does not apply to countries with cold climate (models without air conditioning system with manual gearbox), engine code BKC, applicable from November 2003 onwards

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Coolant temperature sender - radiator outlet, radiator fan, radiator fan -2-

G83	Coolant temperature sender - radiator outlet
J248	Diesel direct injection system control unit
J293	Radiator fan control unit
T2e	2-pin connector, black, at radiator fan (front end)
T4d	4-pin connector, black, at radiator fan (front end)
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T14a	14-pin connector, black, near relay carrier, electronics box
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V7	Radiator fan
V177	Radiator fan -2-
*	Connectors are not fitted on models with engine code BKD
**	Does not apply to countries with cold climate (models without air conditioning system with manual gearbox), engine code BKC, applicable from November 2003 onwards
***	Only applies to models with coolant temperature sender - radiator outlet

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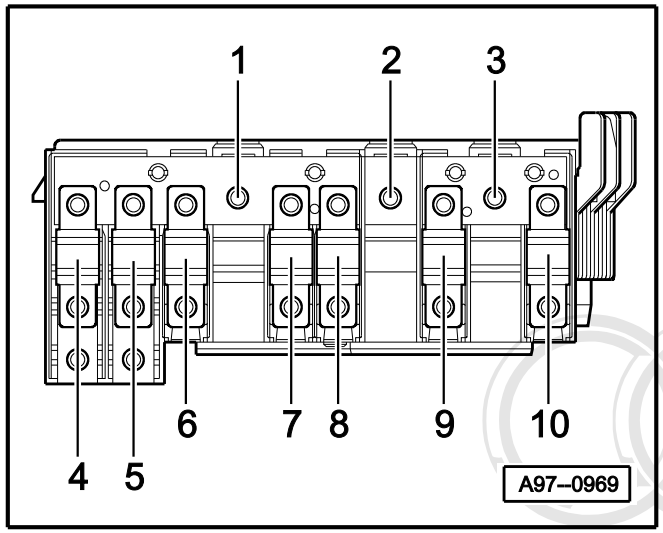
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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Convenience electrics

⇒ **Electrically adjustable and heated exterior mirrors**
⇒ **Entry warning lamps and door warning lamps**
⇒ **Window regulator**
⇒ **Interior light and luggage compartment light**
⇒ **Anti-theft alarm, central locking**

from model year 2004

Main fuse holder, electronics box



♦ On electronics box, in engine compartment, front left

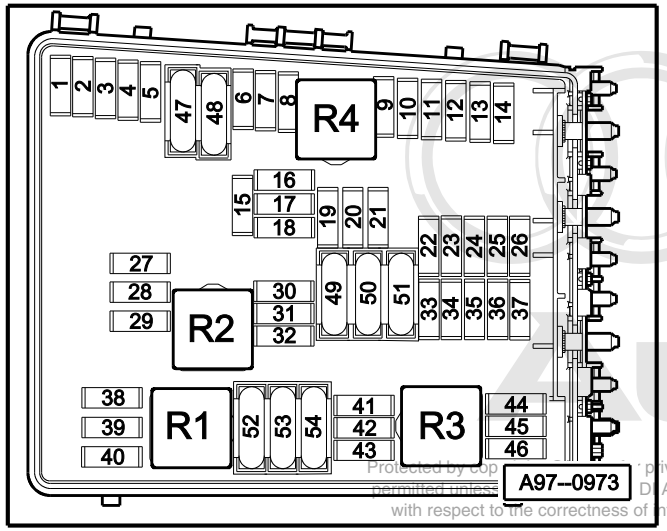
Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)
Fuse locations
7 - Fuse -4- on fuse holder/battery (SA4)
9 - Fuse -6- on fuse holder/battery (SA6)

Note:

♦ *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

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Relay and fuse carrier, electronics box



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- In engine compartment, front left

Fuse colours

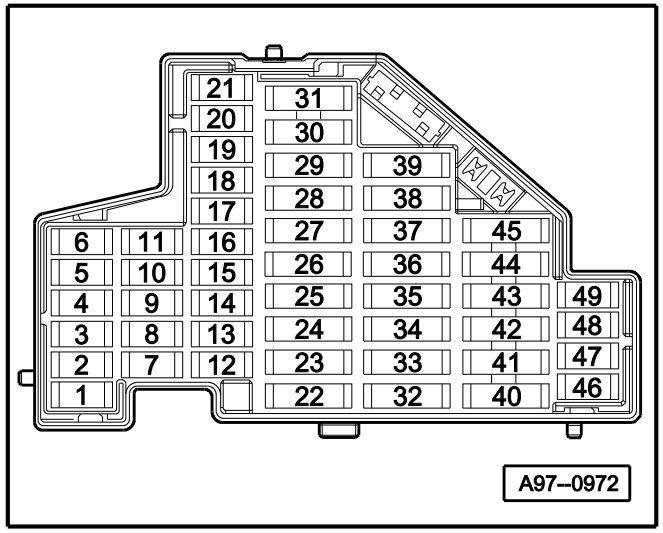
50 A - red
30 A - green
20 A - yellow
10 A - red

Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

Fuse holder



- Driver side dash panel

Fuse colours

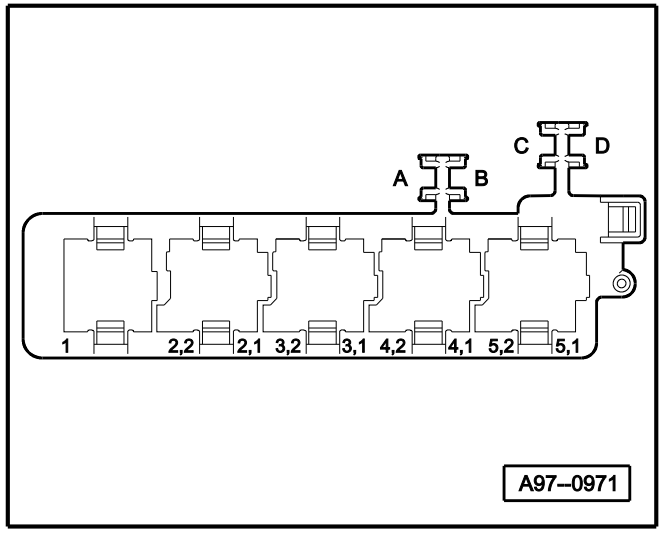
30 A - green
25 A - white
10 A - red
5 A - beige

Note:

- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

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5-point relay carrier

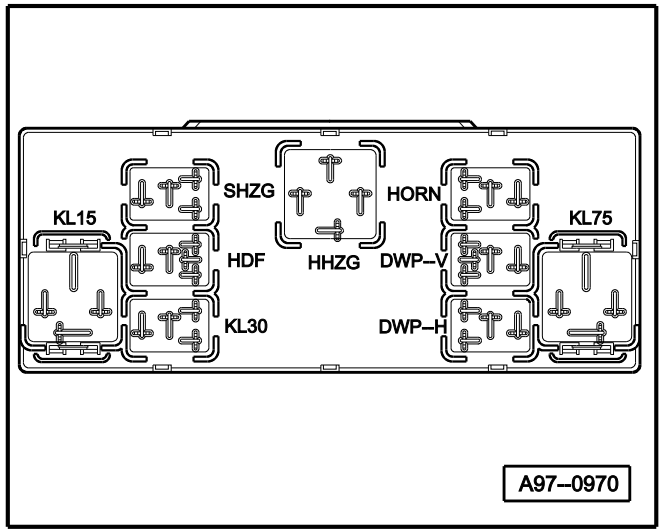


♦ Above the onboard power supply control unit, dash panel, driver side, bottom left

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Position of relays
B - Window regulator single fuse - S37

Onboard supply control unit - J519

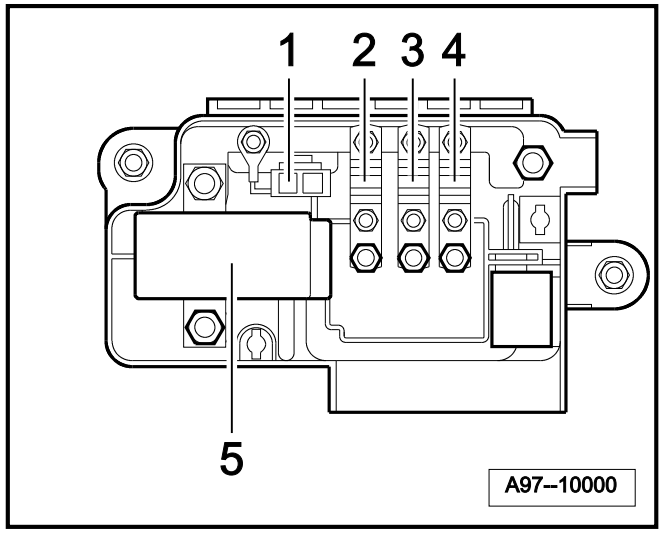


♦ Dash panel, driver side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay 2 - J681
KL30 - Terminal 30 voltage supply relay 2 - J689

Main fuse box



- In luggage compartment, rear right

Fuse locations

2 - Fuse -2- on fuse holder - SD2
3 - Fuse -3- on fuse holder - SD3
Position of relays

5 - Battery cut-off relay - J655

Note:

- *The fuses in the main fuse box are designated as SD in the Current Flow Diagram.*

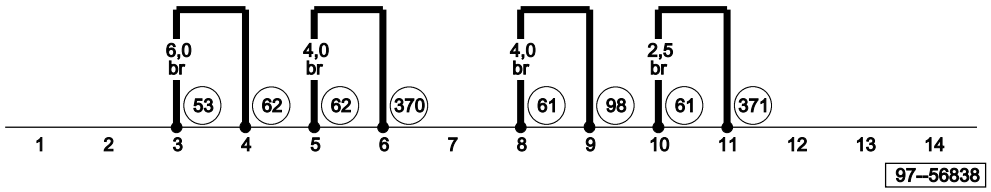
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Battery, battery cut-off relay

53	Earth point, on right in rear lid
61	Earth point, left C-pillar
62	Earth point, right C-pillar
98	Earth connection, in rear lid wiring harness
370	Earth connection -5-, in main wiring harness
371	Earth connection -6-, in main wiring harness

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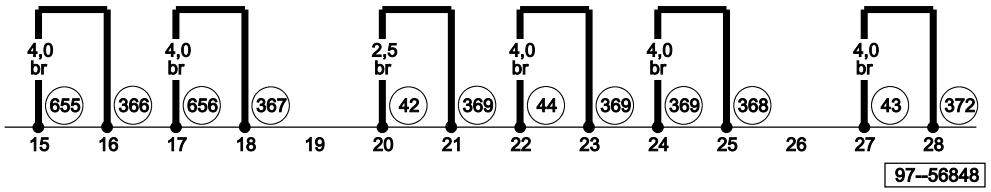
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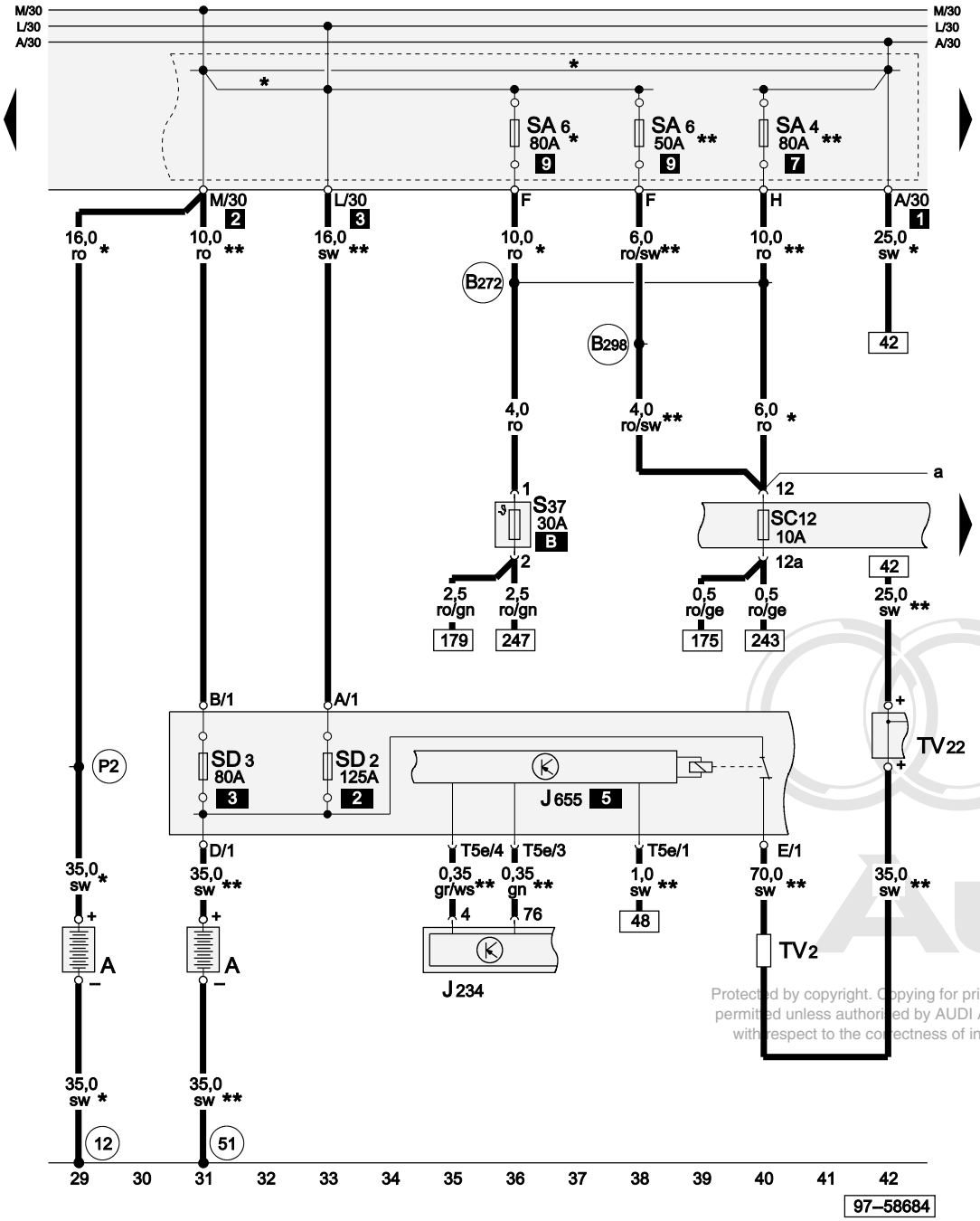
Terminal 15 voltage supply relay 2, fuses on fuse holder

42	Earth point, next to steering column
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
366	Earth connection -1-, in main wiring harness
367	Earth connection -2-, in main wiring harness
368	Earth connection -3-, in main wiring harness
369	Earth connection -4-, in main wiring harness
372	Earth connection -7-, in main wiring harness
655	Earth point, on left headlight
656	Earth point, on right headlight

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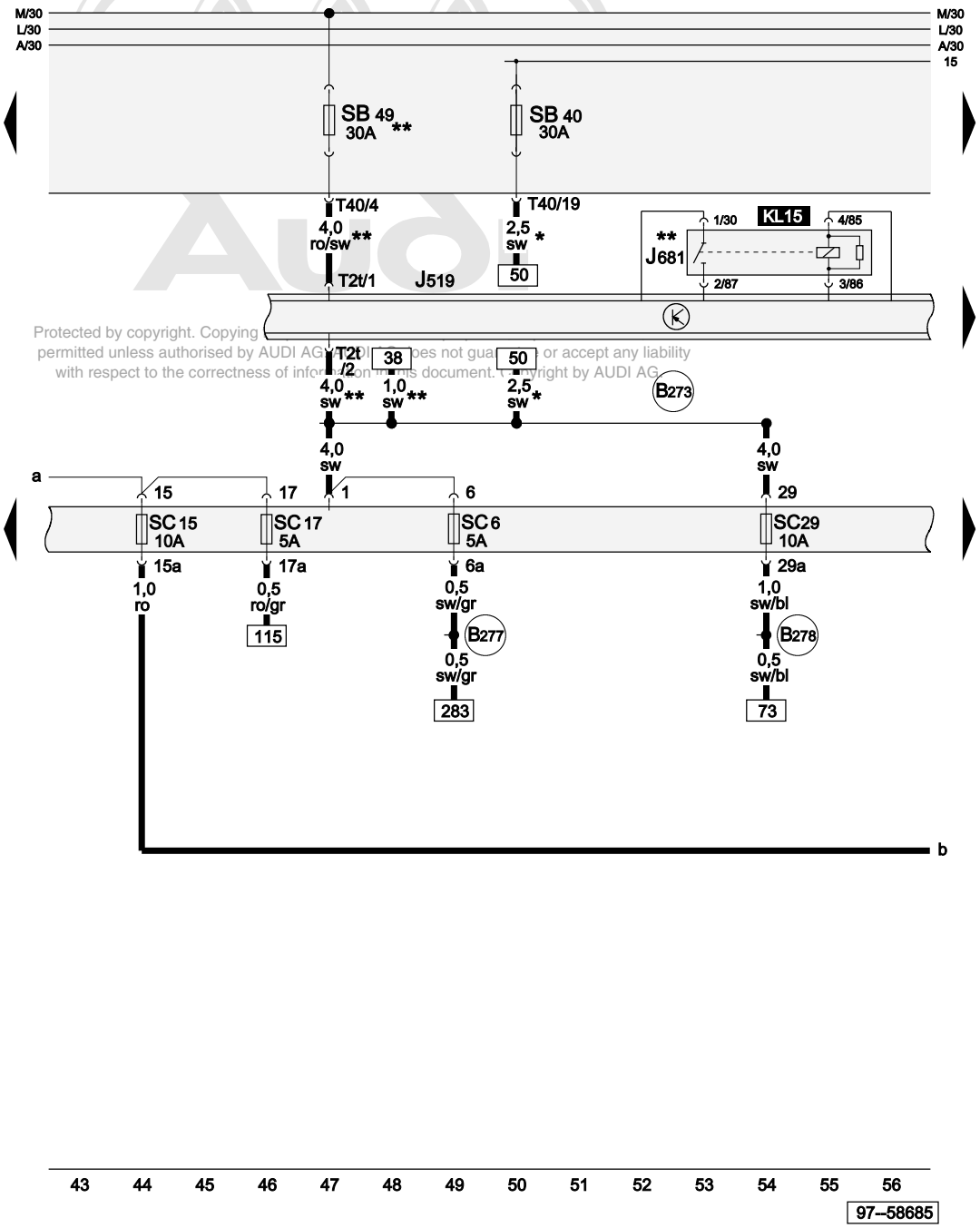


Terminal 15 voltage supply relay, terminal 30 voltage supply relay 2

A	Battery
J234	Airbag control unit
J655	Battery cut-off relay
S37	Window regulator single fuse
SA4	Fuse -4- on fuse holder/battery
SA6	Fuse -6- on fuse holder/battery
SC12	Fuse -12- on fuse holder
SD2	Fuse -2- on fuse holder
SD3	Fuse -3- on fuse holder
T5e	5-pin connector, yellow, on main fuse box
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
12	Earth point, on left in engine compartment
51	Earth point, on right in luggage compartment
B272	Positive connection (30), in main wiring harness
B298	Positive connection -2- (30), in main wiring harness
P2	Positive connection (30), in battery wiring harness
*	For models with battery in engine compartment only
**	For models with battery in luggage compartment only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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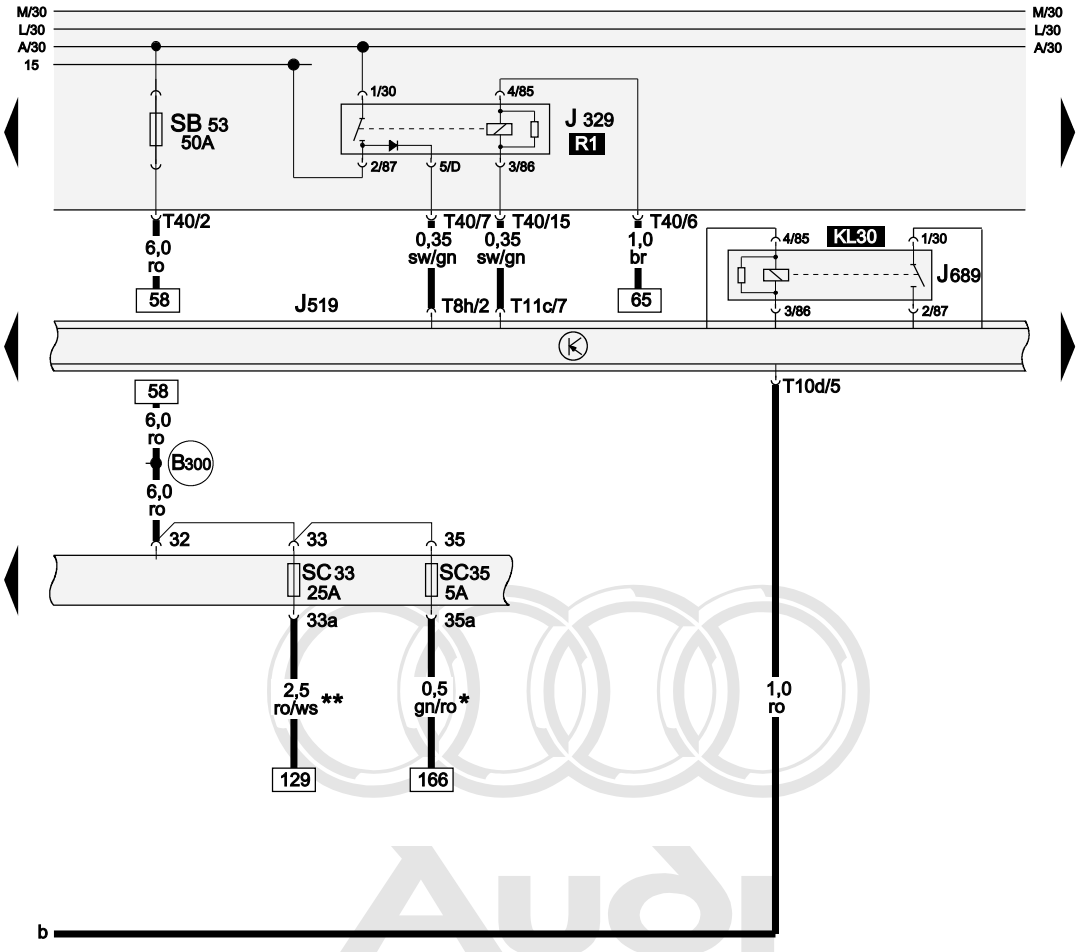


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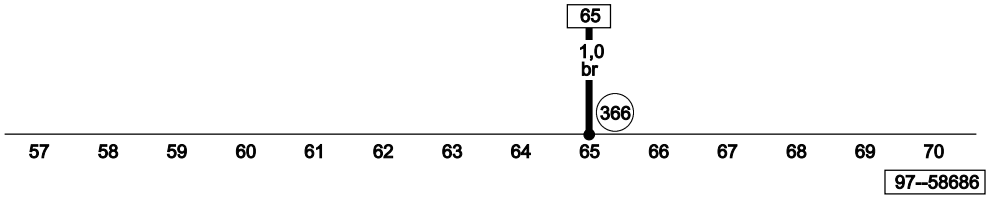
Interior light (front and rear) with reading lights

J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC6	Fuse 6 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC17	Fuse 17 on fuse holder C
SC29	Fuse 29 on fuse holder C
T2t	2-pin connector, black (connector L)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	For models with battery in engine compartment only
**	For models with battery in luggage compartment only

ws	=	white
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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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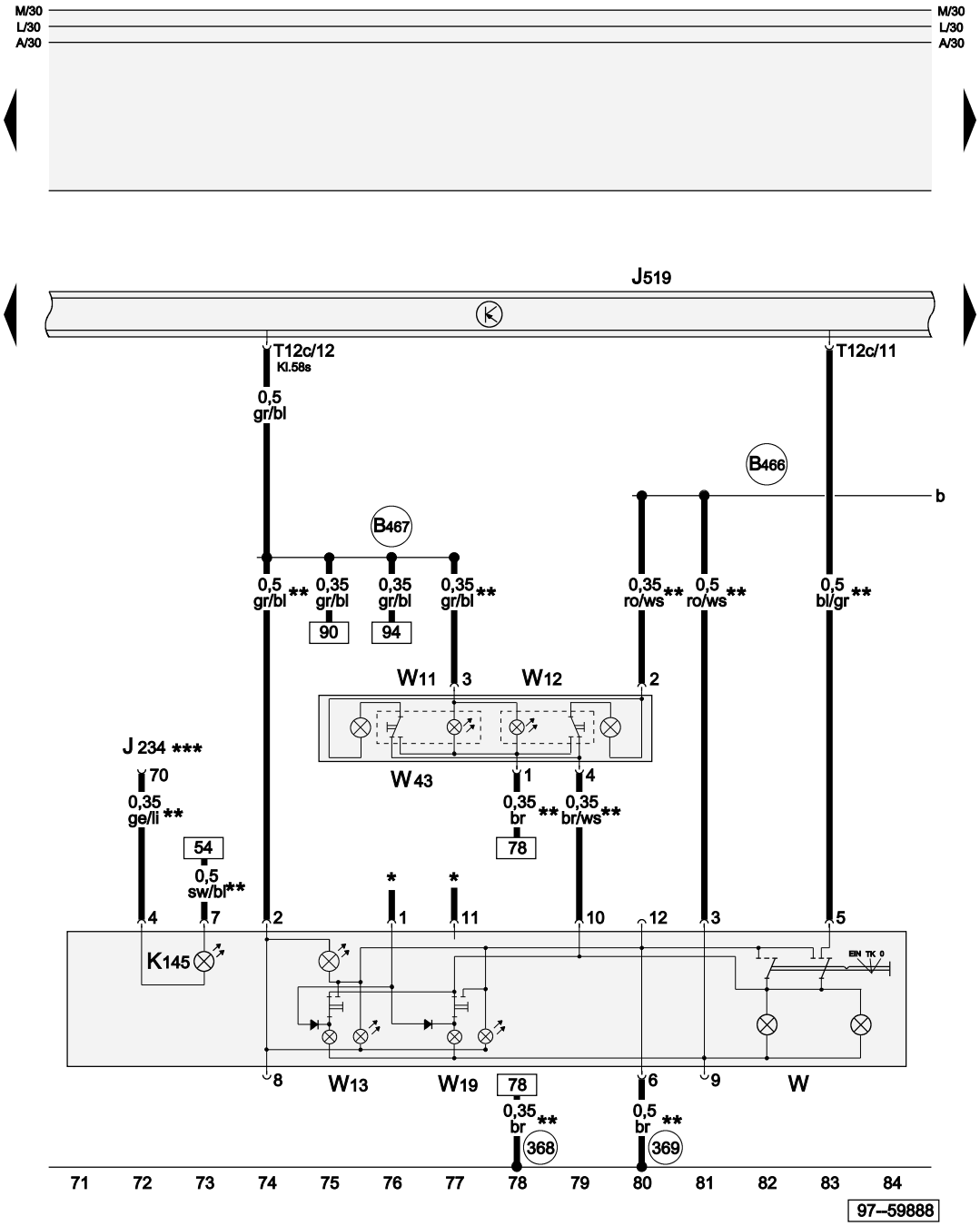
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Bonnet contact switch, vanity mirrors on driver and front passenger side

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
SB53	Fuse -53- on fuse holder
SC33	Fuse -33- on fuse holder
SC35	Fuse -35- on fuse holder
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection -1-, in main wiring harness
B300	Positive connection -4- (30), in main wiring harness
*	For models with anti-theft alarm only
**	⇒ Applicable Current Flow Diagram: sliding/tilting sunroof

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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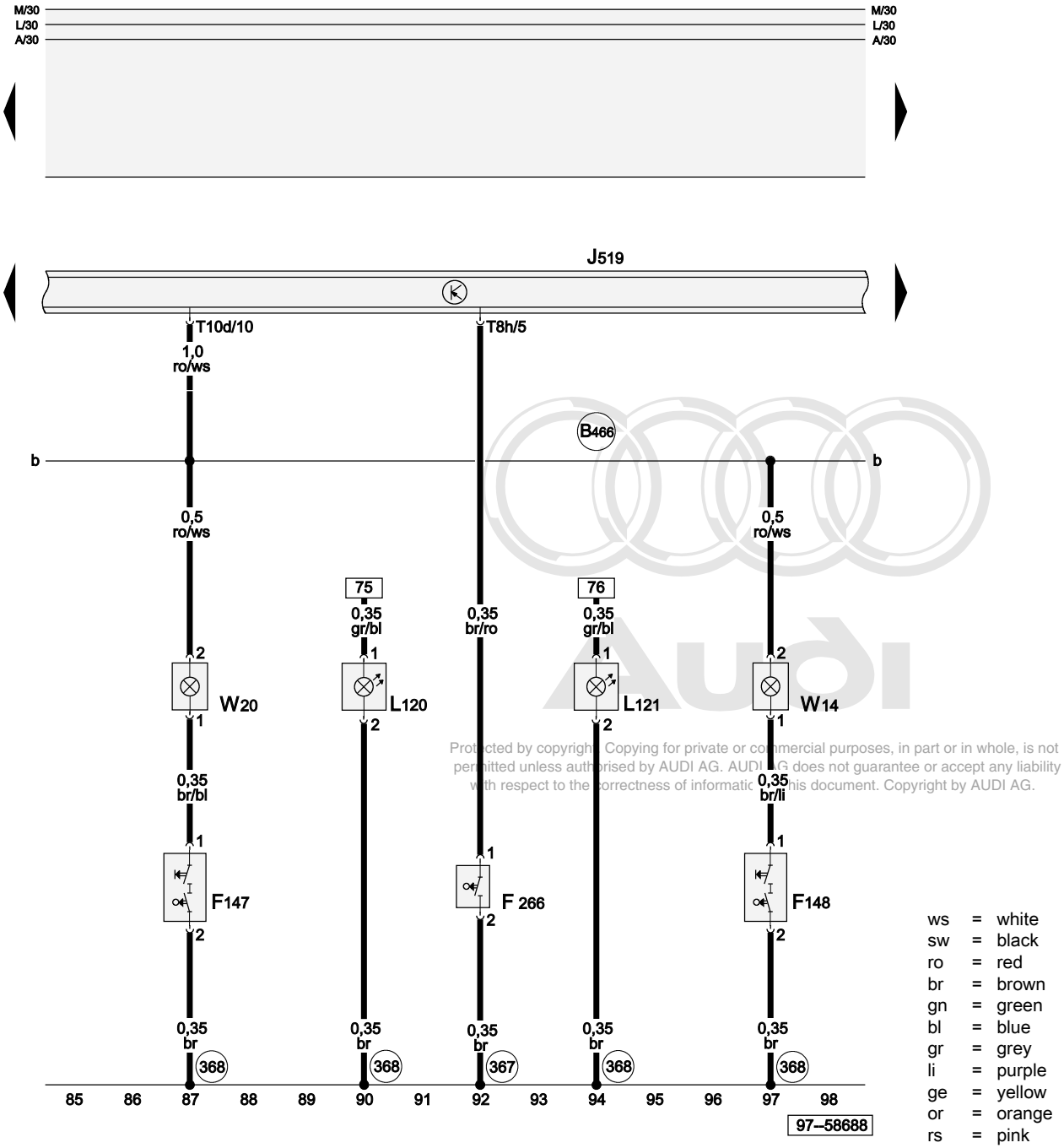


Left and right footwell light, glove compartment light

J519	Onboard supply control unit
J234	Airbag control unit
K145	Front passenger side airbag deactivated warning lamp
T12c	12-pin connector, black (connector B)
W	Front interior light
W11	Rear left reading light
W12	Rear right reading light
W13	Front passenger side reading light
W19	Reading light/driver side
W43	Rear interior light
369	Earth connection -4-, in main wiring harness
B466	Connection -2- in main wiring harness
B467	Connection -3- in main wiring harness
*	No longer fitted, phased-in modification
**	For models with reading lights only
***	⇒ Applicable Current Flow Diagram: airbag

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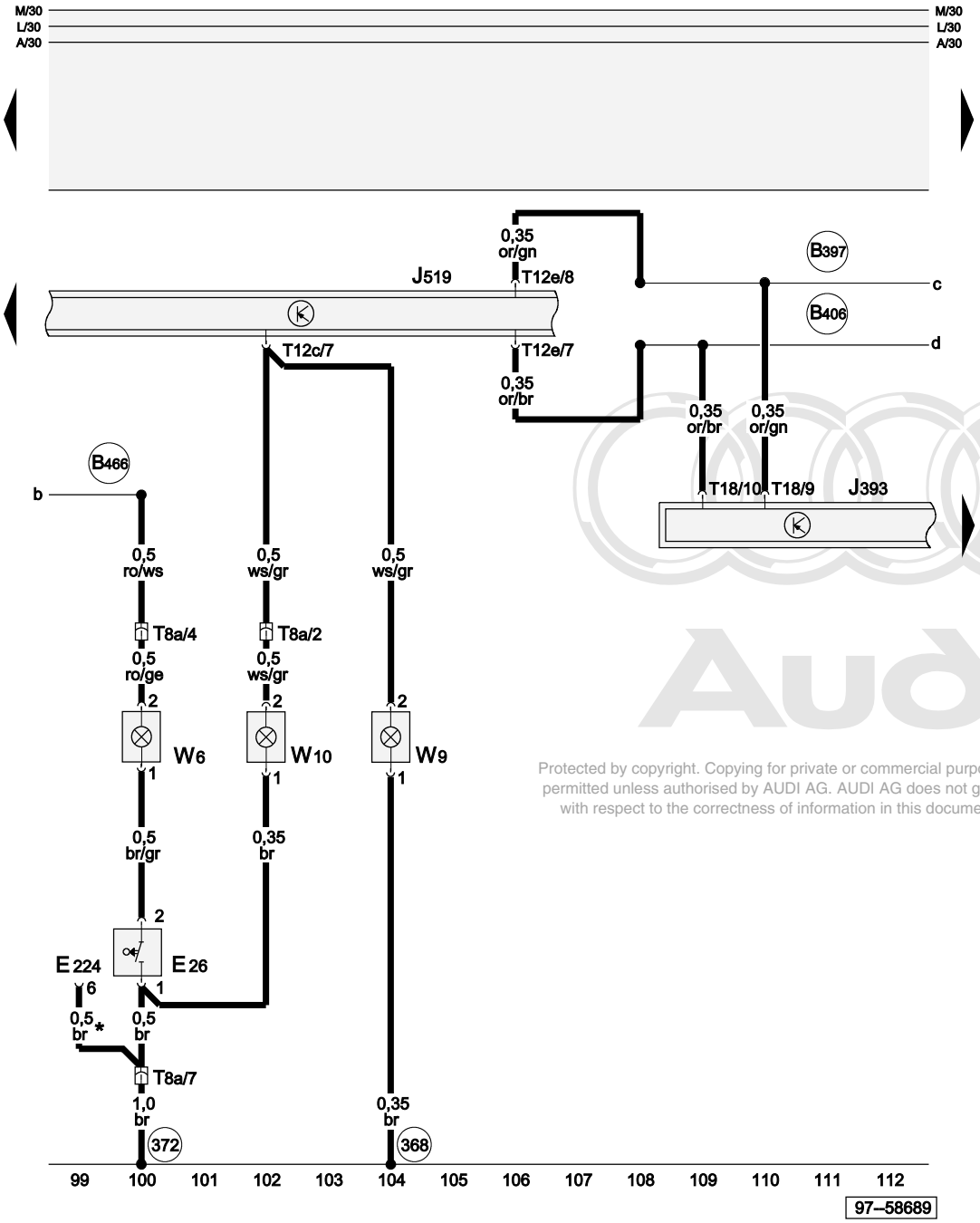


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or = orange
rs = pink

Central locking and anti-theft alarm system aerial

F147	Driver vanity mirror contact switch
F148	Front passenger vanity mirror contact switch
F266	Bonnet contact switch
J519	Onboard supply control unit
L120	Storage compartment illumination bulb
L121	Cup holder illumination bulb
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
W14	Illuminated vanity mirror (front passenger side)
W20	Illuminated vanity mirror (driver side)
367	Earth connection -2-, in main wiring harness
368	Earth connection -3-, in main wiring harness
B466	Connection -2- in main wiring harness

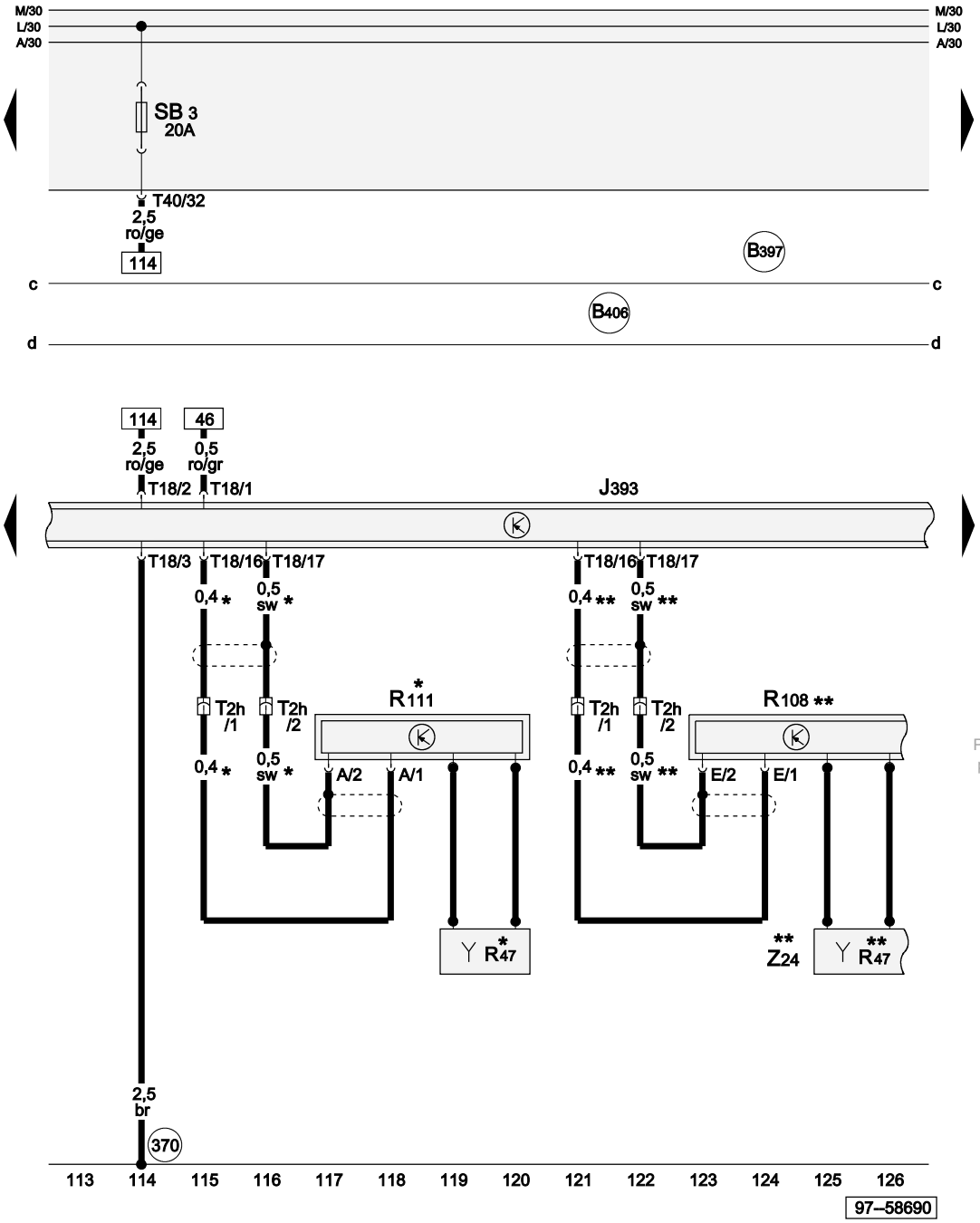


Rear lid contact switch for anti-theft alarm/central locking

E26	Glove compartment light switch
E224	Key operated switch to deactivate front passenger side airbag
J393	Convenience system central control unit
J519	Onboard supply control unit
T8a	8-pin connector, black, near glove compartment
T12c	12-pin connector, black (connector B)
T12e	12-pin connector, black (connector G)
T18	18-pin connector, brown (connector A)
W6	Glove compartment light
W9	Left footwell light
W10	Right footwell light
368	Earth connection -3-, in main wiring harness
372	Earth connection -7-, in main wiring harness
B466	Connection -2- in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
*	⇒ Applicable Current Flow Diagram: airbag

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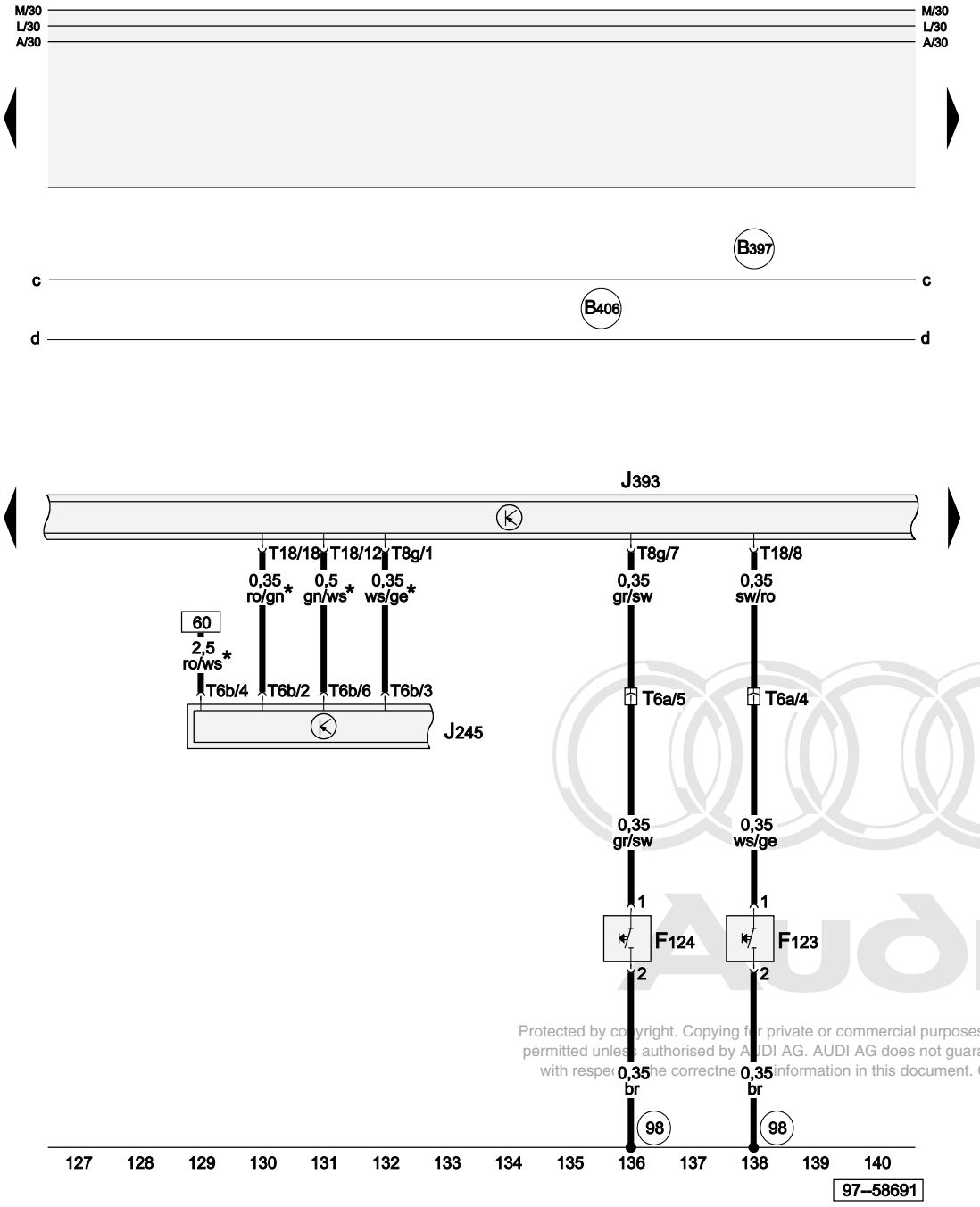


Parking brake contact switch, rear lid release motor and tank filler flap locking motor

J393	Convenience system central control unit
R47	Central locking and anti-theft alarm system aerial
R108	Aerial module, left
R111	Aerial amplifier 2
SB3	Fuse -3- on fuse holder
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
Z24	Heated rear window with window aerial
370	Earth connection -5-, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
*	For models without radio only
**	For models with radio only

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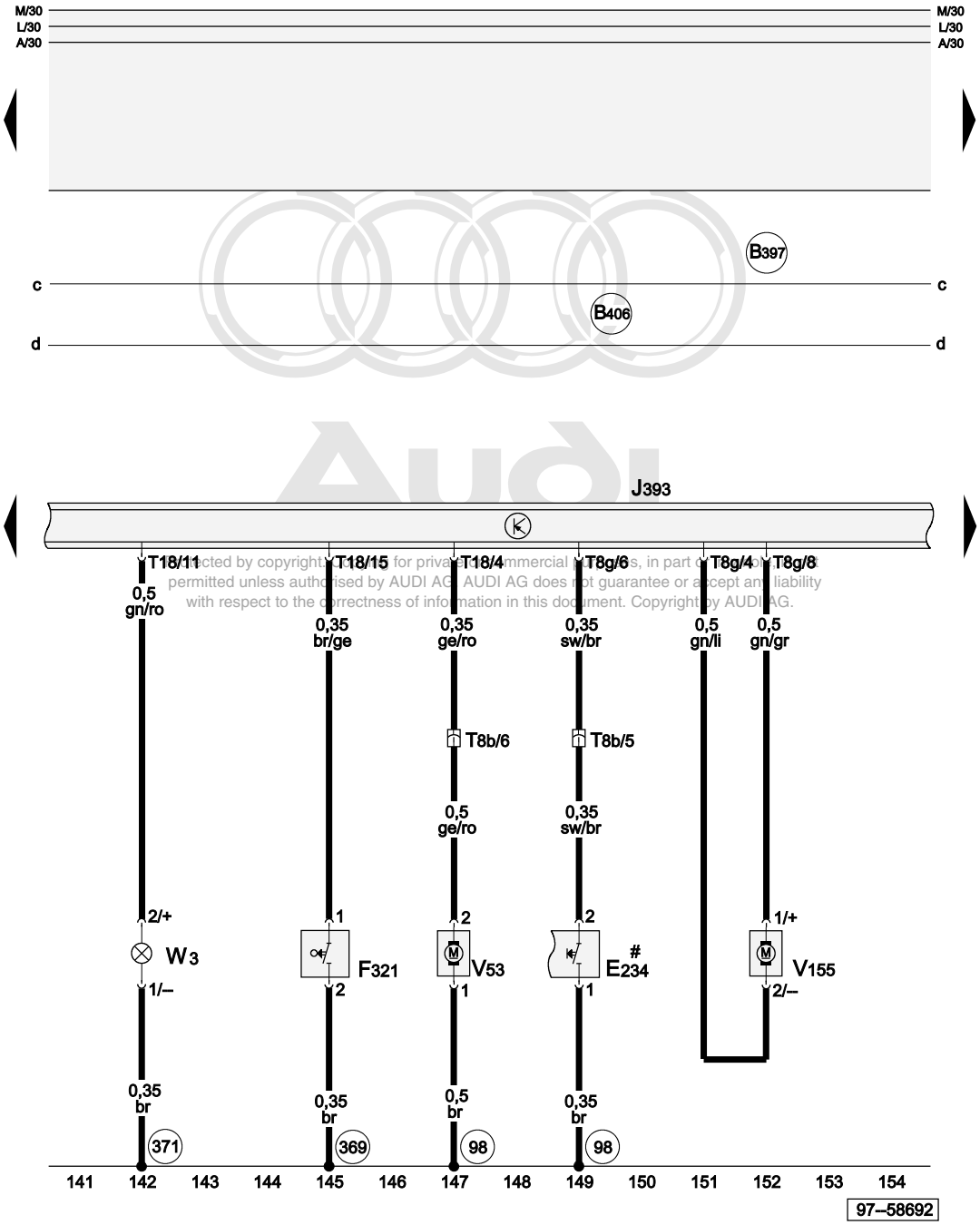


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Alarm horn, vehicle inclination sender, glass breakage sensor, rear window, interior monitoring sensor

F123	Rear lid contact switch for anti-theft alarm
F124	Contact switch in lock cylinder for rear lid/anti-theft alarm system/ central locking system
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
T6a	6-pin connector, black, on left C-pillar
T6b	6-pin connector, blue, sunroof, near interior light
T8g	8-pin connector, black (connector B)
T18	18-pin connector, brown (connector A)
98	Earth connection, in rear lid wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
*	⇒ Applicable Current Flow Diagram: sliding/tilting sunroof

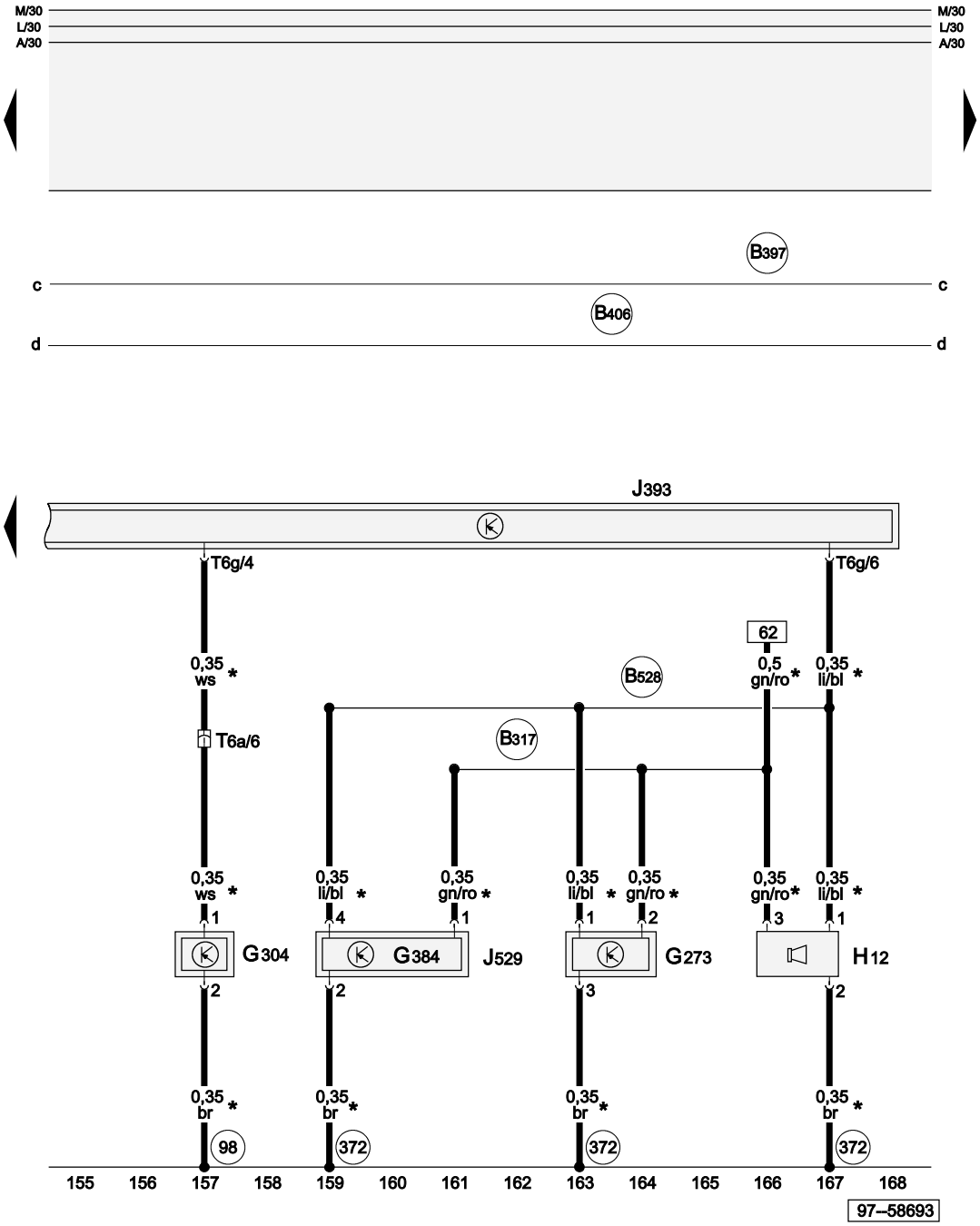


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Window regulator switch, driver side

E234	Rear lid handle release button
F321	Parking brake contact switch
J393	Convenience system central control unit
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T18	18-pin connector, brown (connector A)
V53	Rear lid central locking motor
V155	Tank filler flap locking motor
W3	Luggage compartment light
98	Earth connection, in rear lid wiring harness
369	Earth connection -4-, in main wiring harness
371	Earth connection -6-, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
#	F248 is replaced by E234

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sw	=	black
ro	=	red
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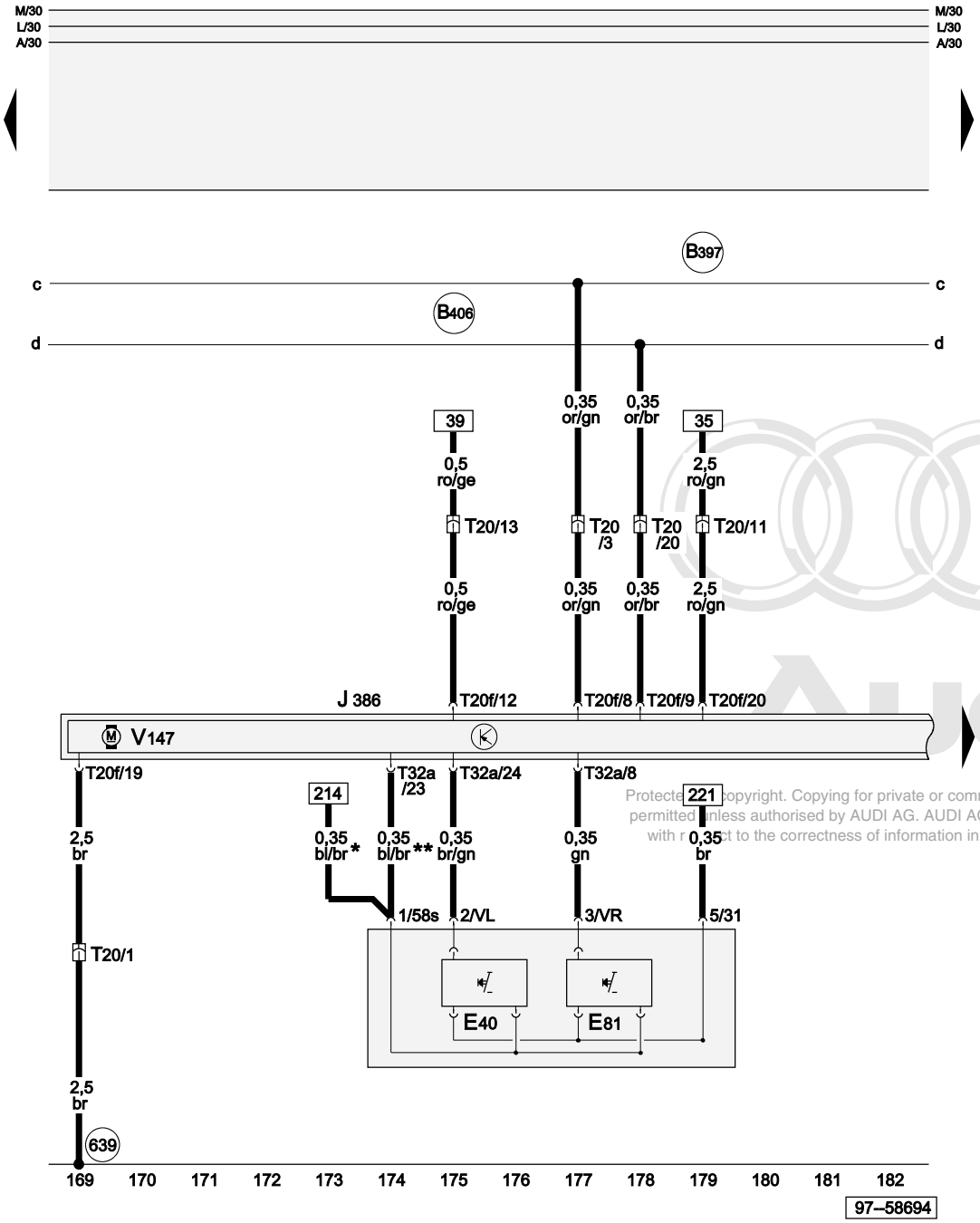


Driver side central locking lock unit

G273	Interior monitoring sensor
G304	Glass breakage sensor, rear window
G384	Vehicle inclination sender
J393	Convenience system central control unit
J529	Anti-theft and tilt system control unit
T6a	6-pin connector, black, on left C-pillar
T6g	6-pin connector, black (connector E)
H12	Alarm horn
98	Earth connection, in rear lid wiring harness
372	Earth connection -7-, in main wiring harness
B317	Positive connection -3- (30a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
B528	Connection 1 (LIN bus), in main wiring harness
*	For models with anti-theft alarm only

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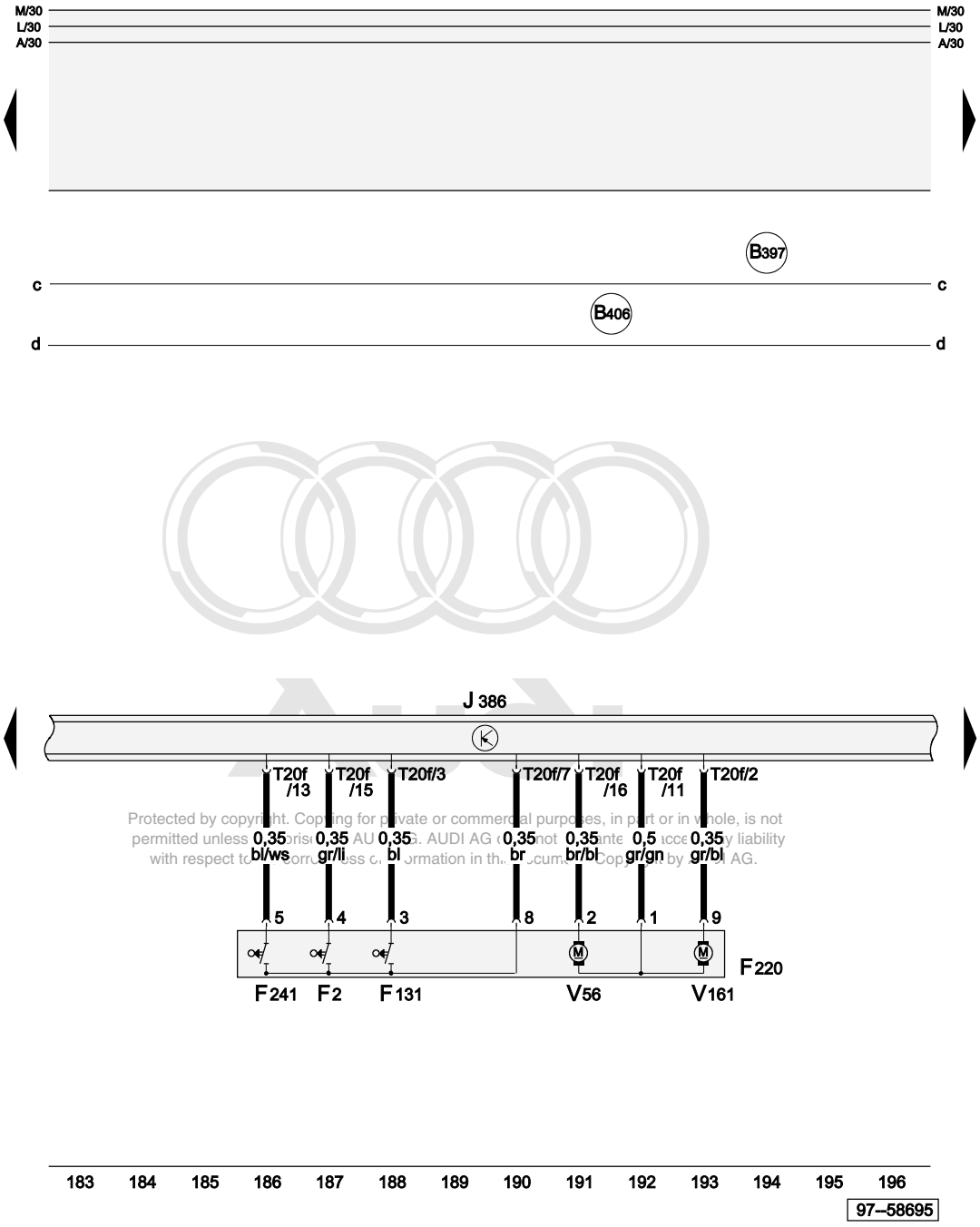


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Front left entry light, interior locking button for central locking system, driver side, door warning lamp, driver side

E40	Front left window regulator switch
E81	Front right window regulator switch in driver door
J386	Driver door control unit
T20	20-pin connector, black, door, A pillar, left
T20f	20-pin connector, black (connector A)
T32a	32-pin connector, grey (connector C)
V147	Driver side window regulator motor
639	Earth point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
*	For models with interior monitor only
**	For models without interior monitor only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

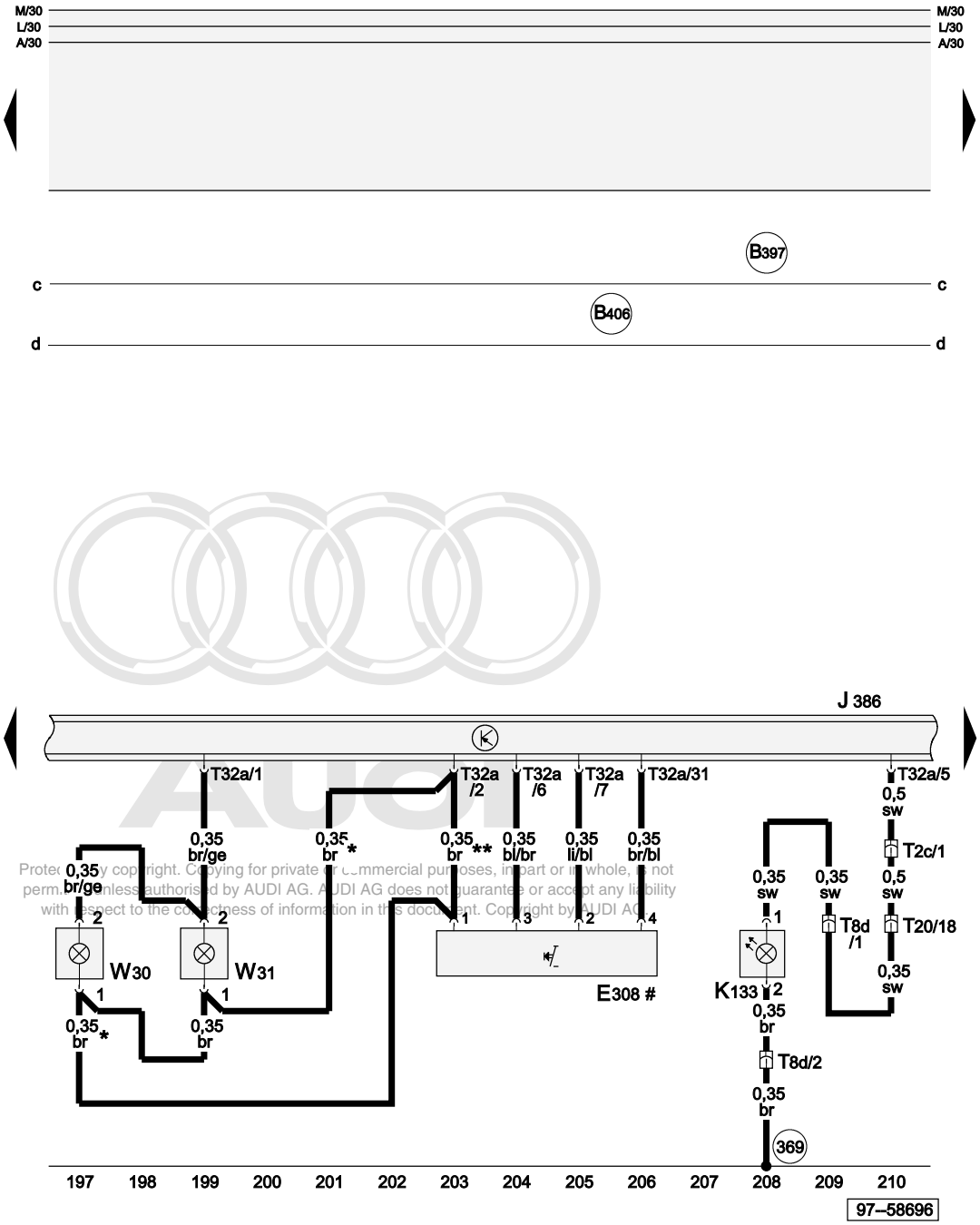


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Mirror adjustment switch, interior monitoring switch

F2	Driver door contact switch
F131	Front left central locking actuator
F220	Driver side central locking lock unit
F241	Driver side contact switch in lock cylinder
J386	Driver door control unit
T20f	20-pin connector, black (connector A)
V56	Driver door central locking motor
V161	Driver door central locking deadlock function motor
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

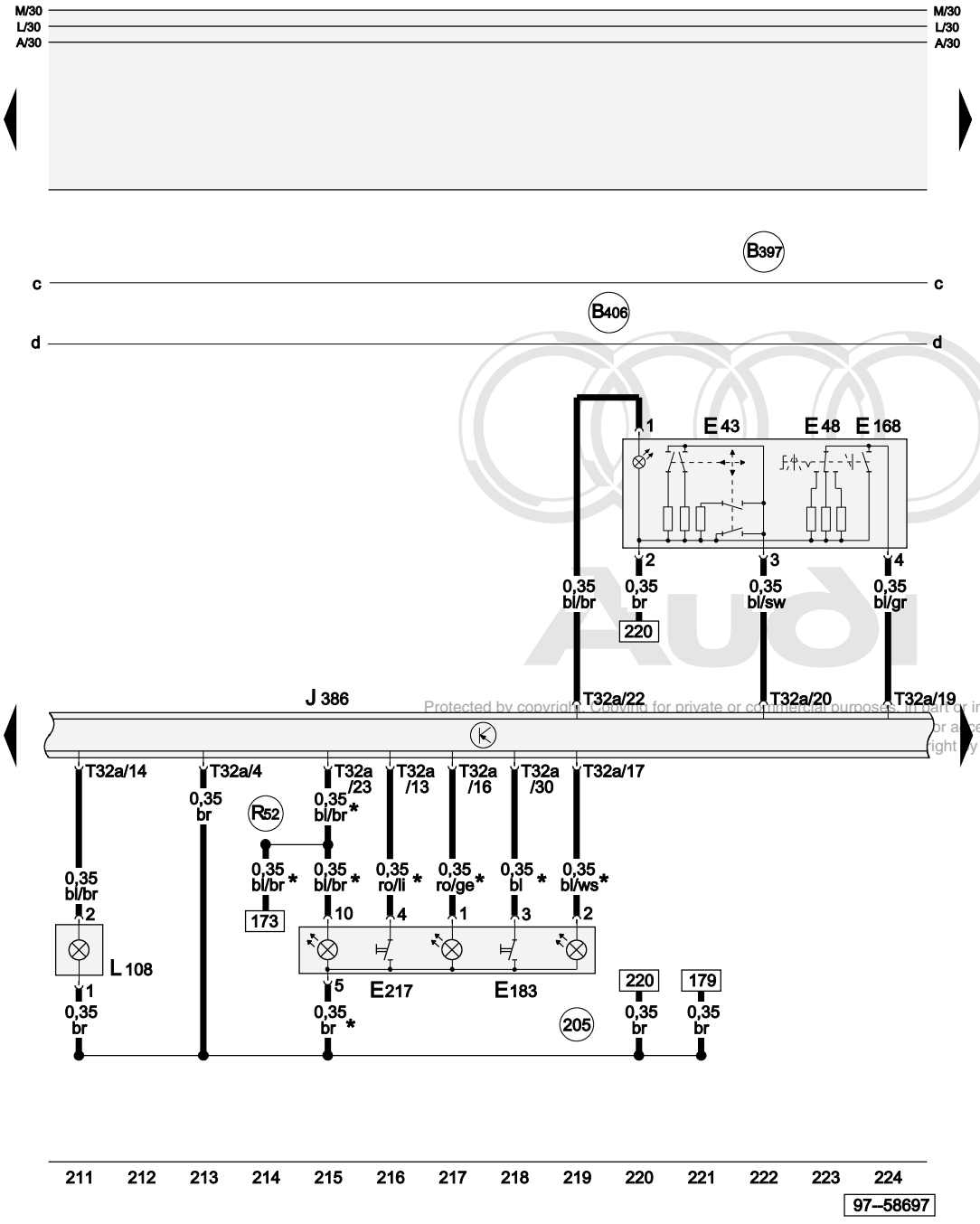


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Mirror adjustment motor/folding mirror motor, driver side

E308	Driver side interior locking button for central locking system
J386	Driver door control unit
T2c	2-pin connector, black, behind door trim driver door
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door, A pillar, left
T32a	32-pin connector, grey (connector C)
K133	Central locking deadlock function warning lamp
W30	Driver side door warning lamp
W31	Front left entry light
369	Earth connection -4-, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
*	For models with entry warning lamp and door warning lamp only
**	For models without entry warning lamp and door warning lamp only
#	E150 is replaced by E308

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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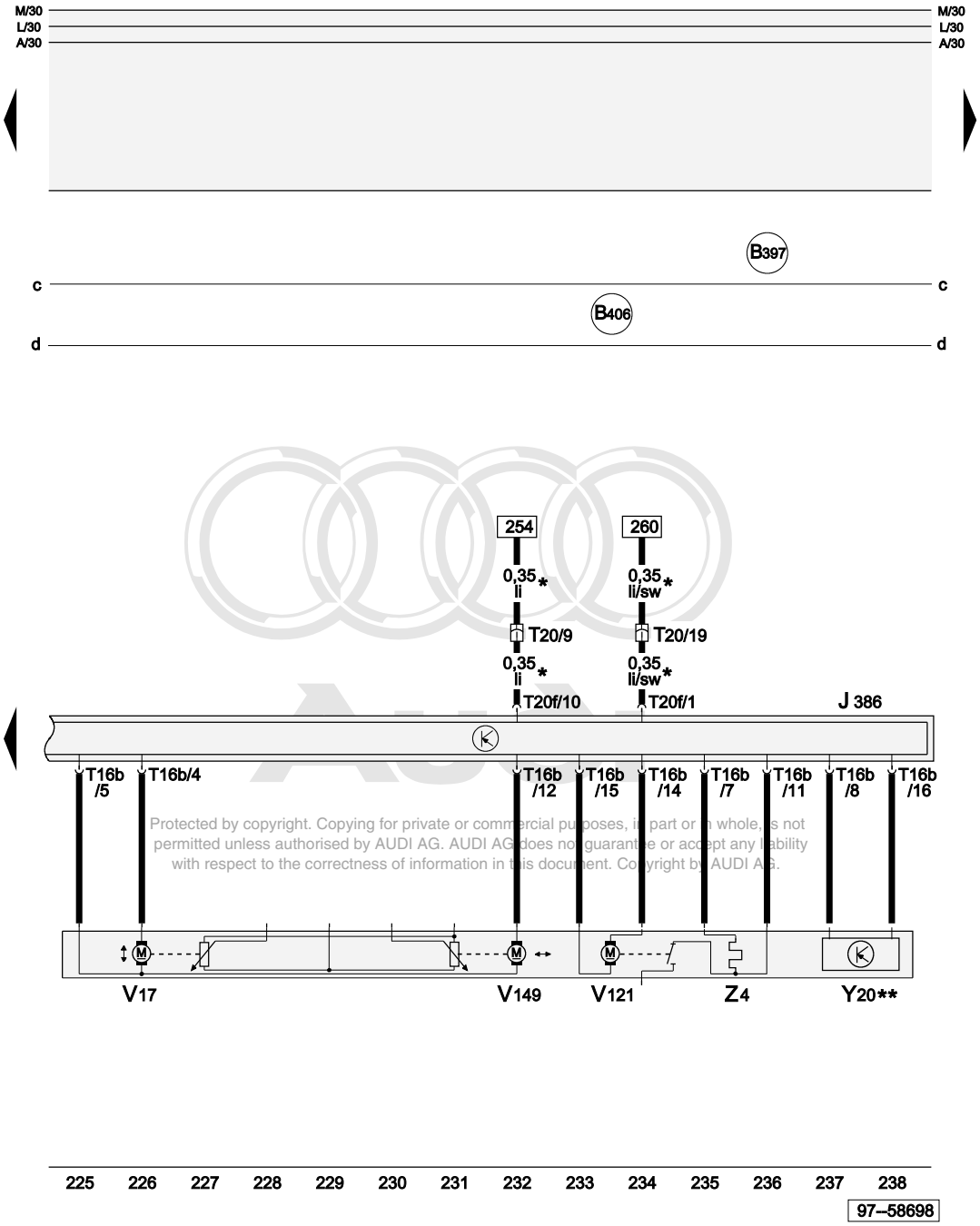


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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
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rs = pink

Front passenger side central locking lock unit

E43	Mirror adjustment switch
E48	Mirror adjustment change-over switch
E168	Adjustment switch for mirror with fold-in feature
E183	Interior monitor deactivation switch
E217	Alarm system off switch
J386	Driver door control unit
L108	Driver door opener illumination
T32a	32-pin connector, grey (connector C)
205	Earth connection, in driver door wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
R52	Connection (58s), in driver side door wiring harness
*	For models with interior monitor only

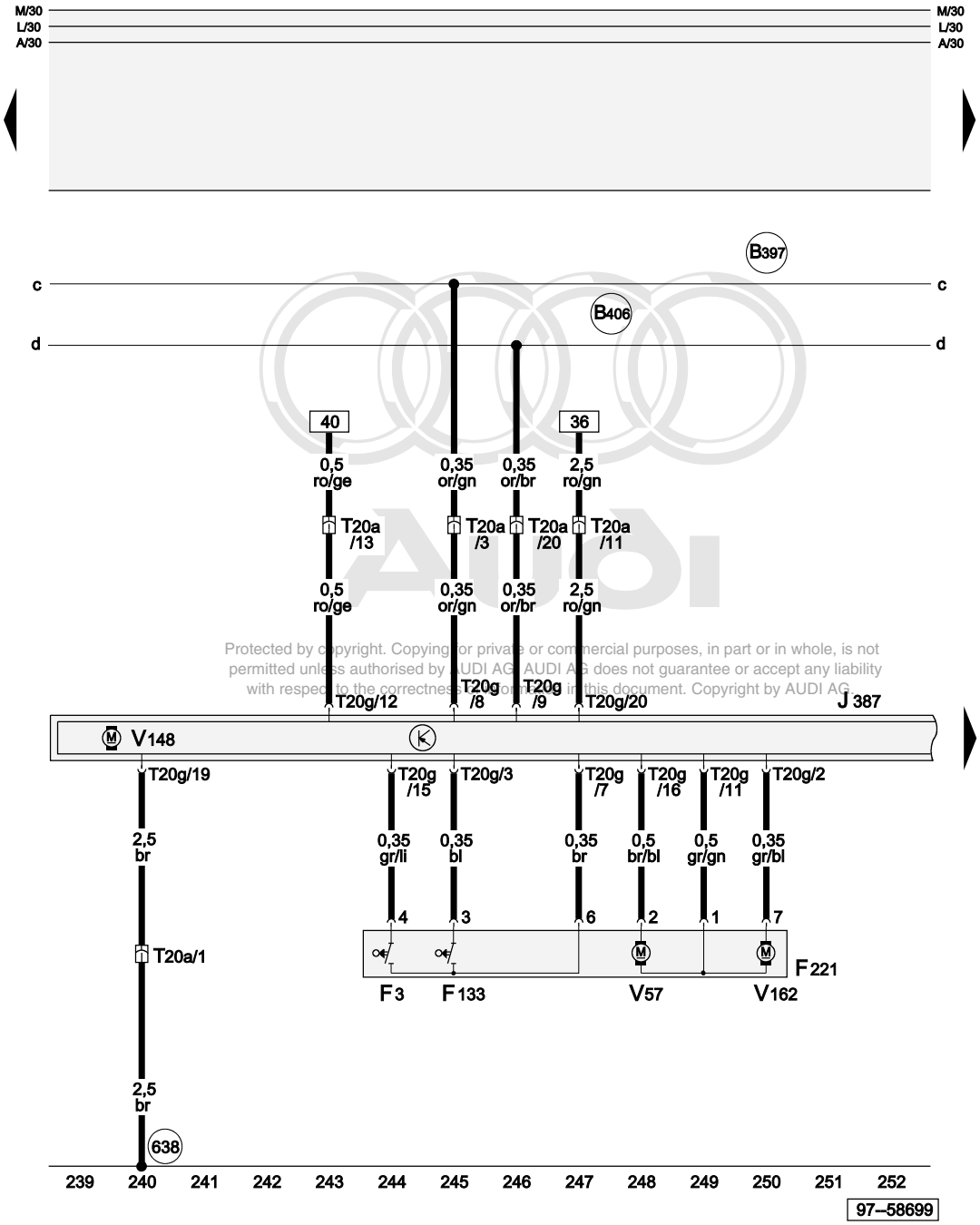


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Mirror adjustment motor/folding mirror motor, front passenger side

J386	Driver door control unit
T16b	16-pin connector (connector B)
T20	20-pin connector, black, door, A pillar, left
T20f	20-pin connector, black (connector A)
V17	Mirror adjustment motor (driver side)
V121	Driver side folding mirror motor
V149	Driver side mirror adjustment motor
Y20	Driver side automatic anti-dazzle exterior mirror
Z4	Driver side heated exterior mirror
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
*	For models with automatic anti-dazzle interior mirror only
**	For models with automatic anti-dazzle exterior mirror only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
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bl	=	blue
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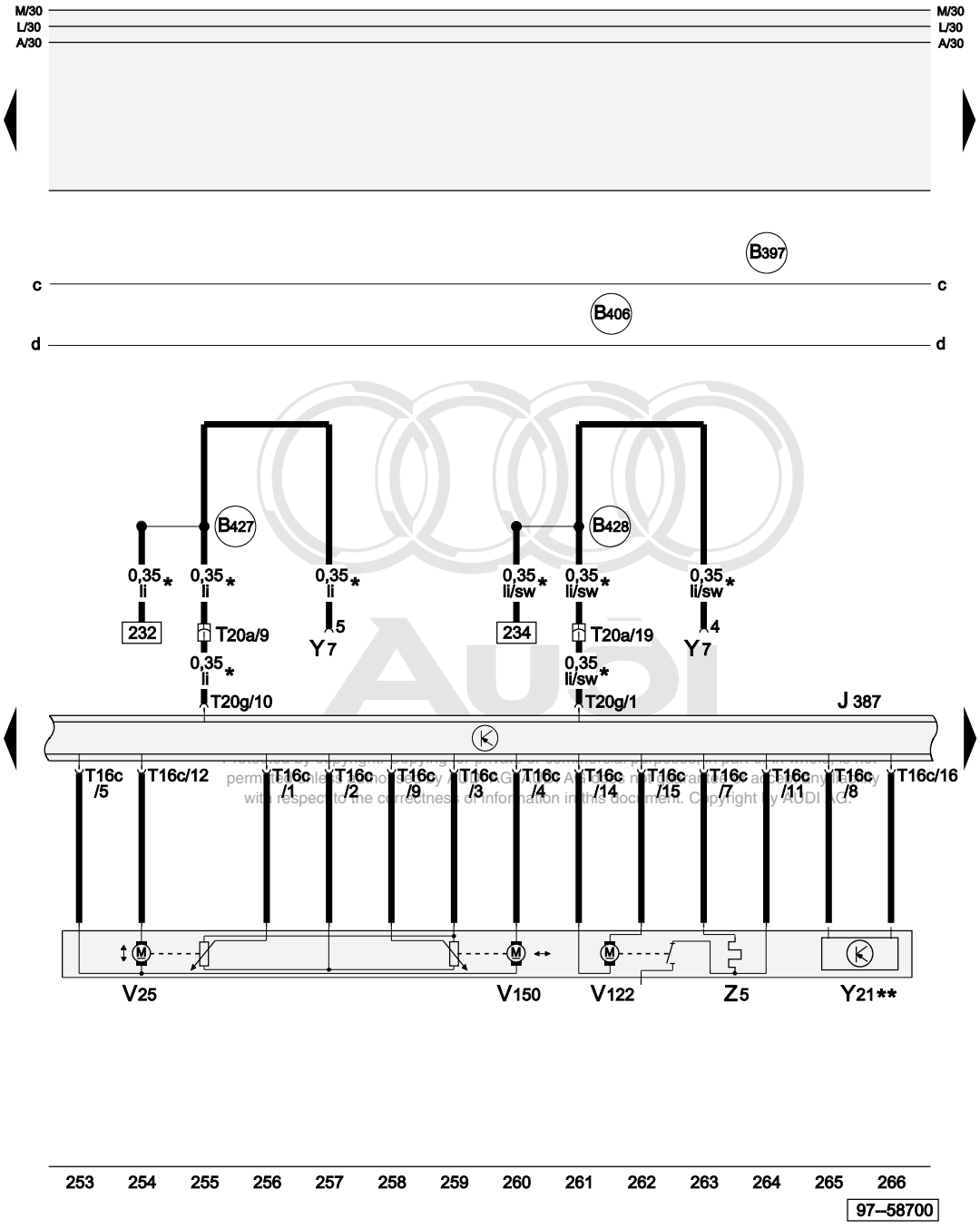


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Front right entry light, door warning lamp, front passenger side, window regulator switch, in front passenger door

F3	Front passenger door contact switch
F133	Front right central locking actuator
F221	Front passenger side central locking lock unit
J387	Front passenger door control unit
T20a	20-pin connector, black, door, A pillar, right
T20g	20-pin connector, black (connector A)
V57	Front passenger seat central locking motor
V148	Front passenger side window regulator motor
V162	Front passenger door central locking deadlock function motor
638	Earth point, right A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness

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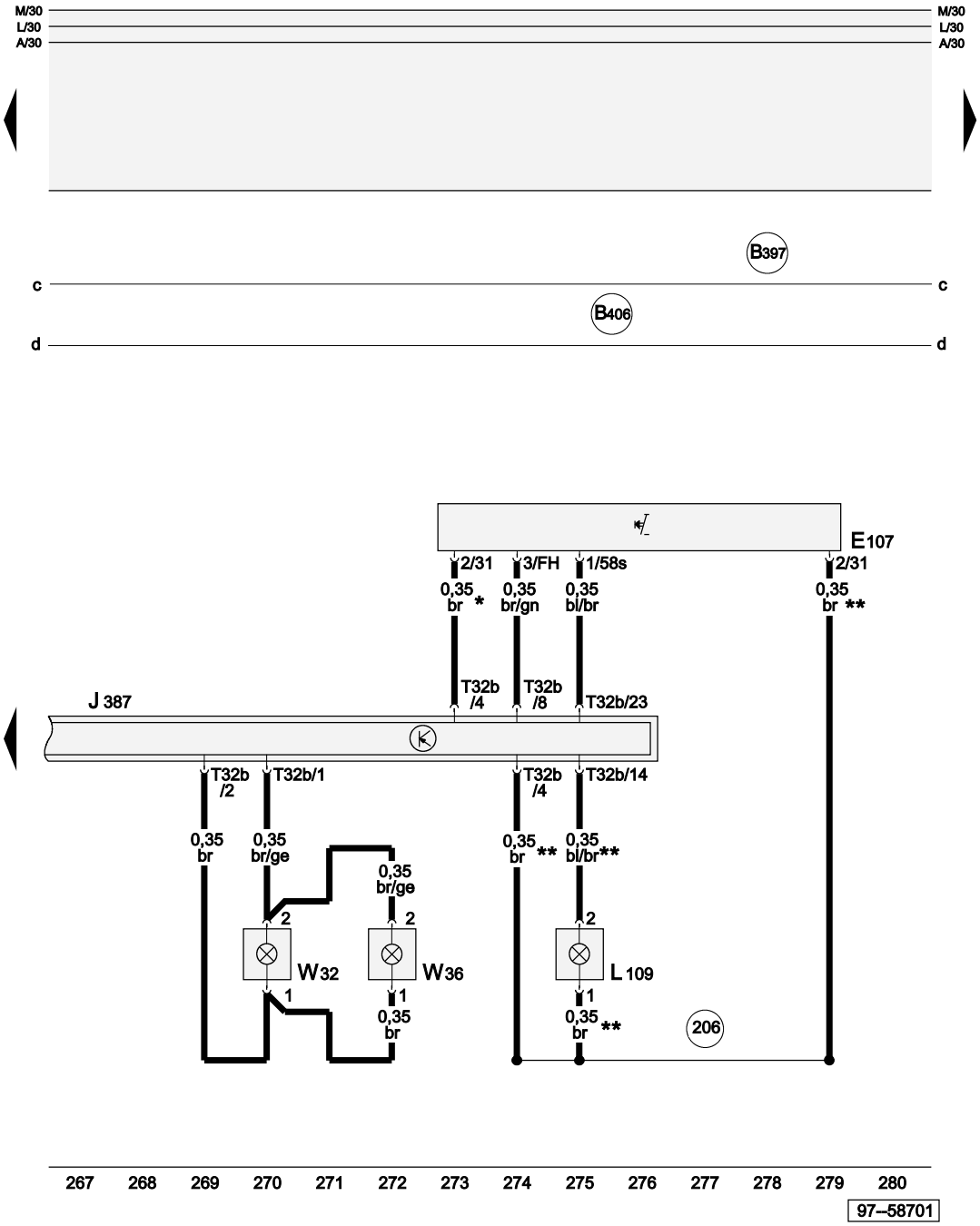


Control unit with display in dash panel insert, data bus diagnostic interface

J387	Front passenger door control unit
T16c	16-pin connector (connector B)
T20a	20-pin connector, black, door, A pillar, right
T20g	20-pin connector, black (connector A)
V25	Mirror adjustment motor (front passenger side)
V122	Front passenger side folding mirror motor
V150	Front passenger side mirror adjustment motor
Y7	Automatic anti-dazzle interior mirror
Y21	Front passenger side automatic anti-dazzle exterior mirror
Z5	Front passenger side heated exterior mirror
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
B427	Connection 1 (mirror signal), in main wiring harness
B428	Connection 2 (mirror signal), in main wiring harness
*	For models with automatic anti-dazzle interior mirror only
**	For models with automatic anti-dazzle exterior mirror only

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Audi
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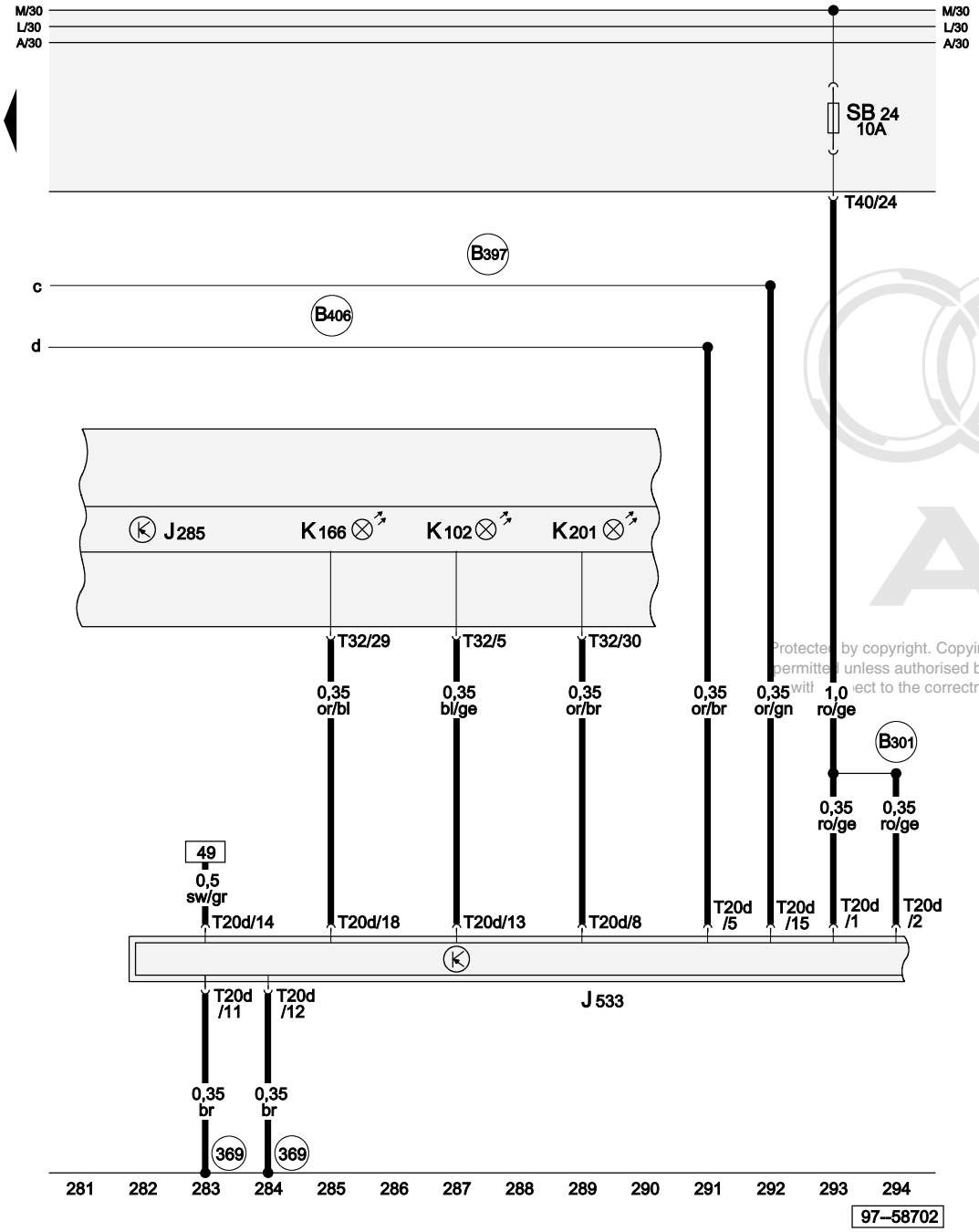


Front right entry light, door warning lamp, front passenger side, window regulator switch, in front passenger door

E107	Window regulator switch, in front passenger door
J387	Front passenger door control unit
L109	Front passenger side door opener illumination
T32b	32-pin connector, grey (connector C)
W32	Front right entry light
W36	Front passenger side door warning lamp
206	Earth connection, in front passenger door wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
*	For models without door opener illumination, front passenger side only
**	For models with door opener illumination, front passenger side only

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Control unit with display in dash panel insert, data bus diagnostic interface

J285	Control unit with display in dash panel insert
J533	Data bus diagnostic interface
K102	Rear lid closed warning lamp
K166	Door open warning lamp
K201	Fuel tank flap lock warning lamp
SB24	Fuse -24- on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection -4-, in main wiring harness
B301	Positive connection -5- (30), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness

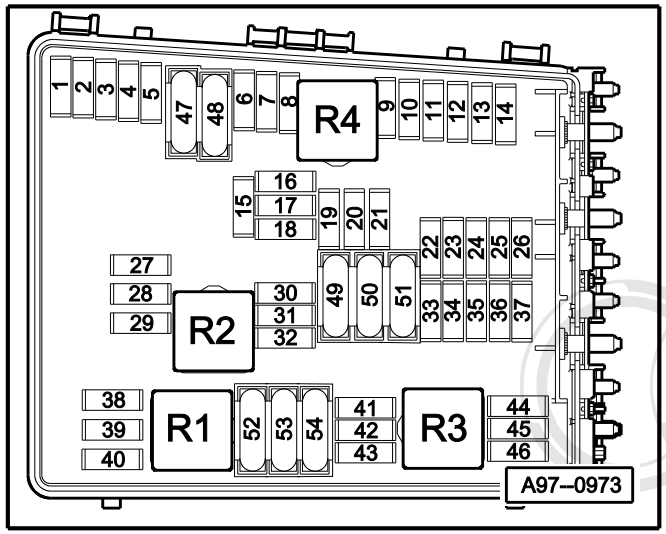
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Airbags for driver and front passenger with belt tensioners and side airbags

from model year 2004

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

30 A - green
15 A - blue
10 A - red
5 A - beige

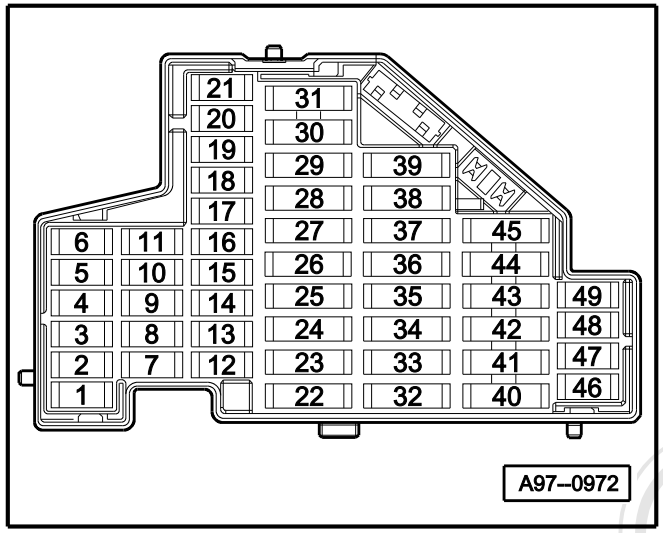
Note:

- *The fuses in electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

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Fuse holder



- Driver side dash panel

Fuse colours

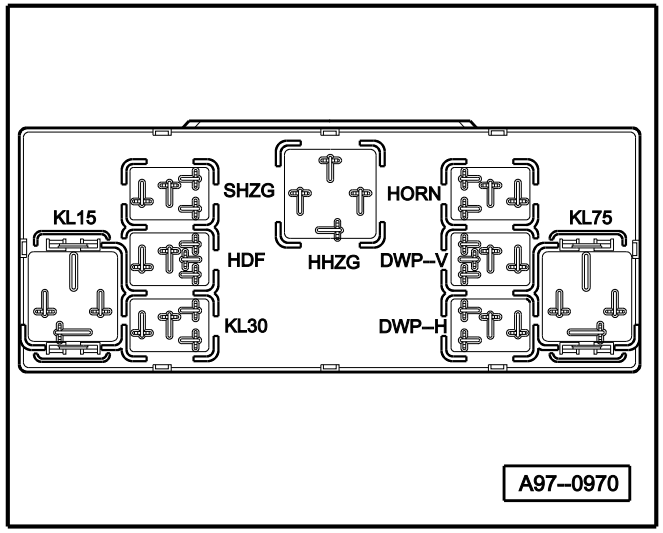
10 A - red
5 A - beige

Note:

- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

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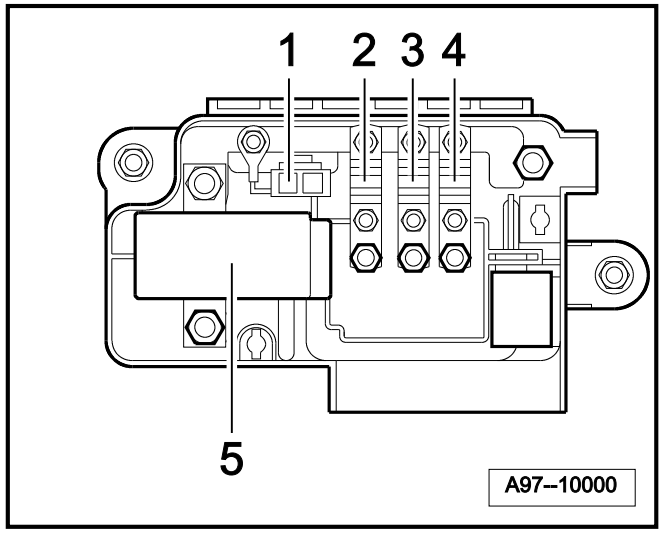
Onboard supply control unit - J519



♦ Dash panel, driver side, bottom left

Position of relays
KL15 - Terminal 15 voltage supply relay 2 - J681

Main fuse box



♦ In luggage compartment, rear right

Fuse locations

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1 - Fuse -1- on fuse holder - SD1
Position of relays

5 - Battery cut-off relay - J655

Note:

- *The fuses in the main fuse box are designated as SD in the Current Flow Diagram.*

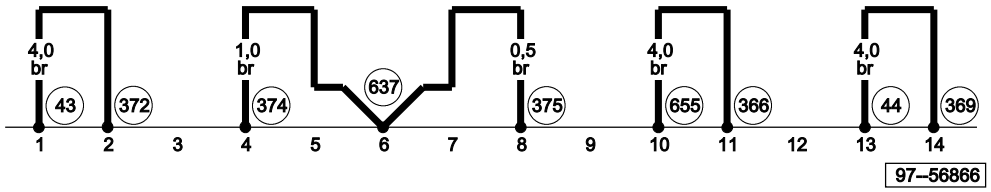
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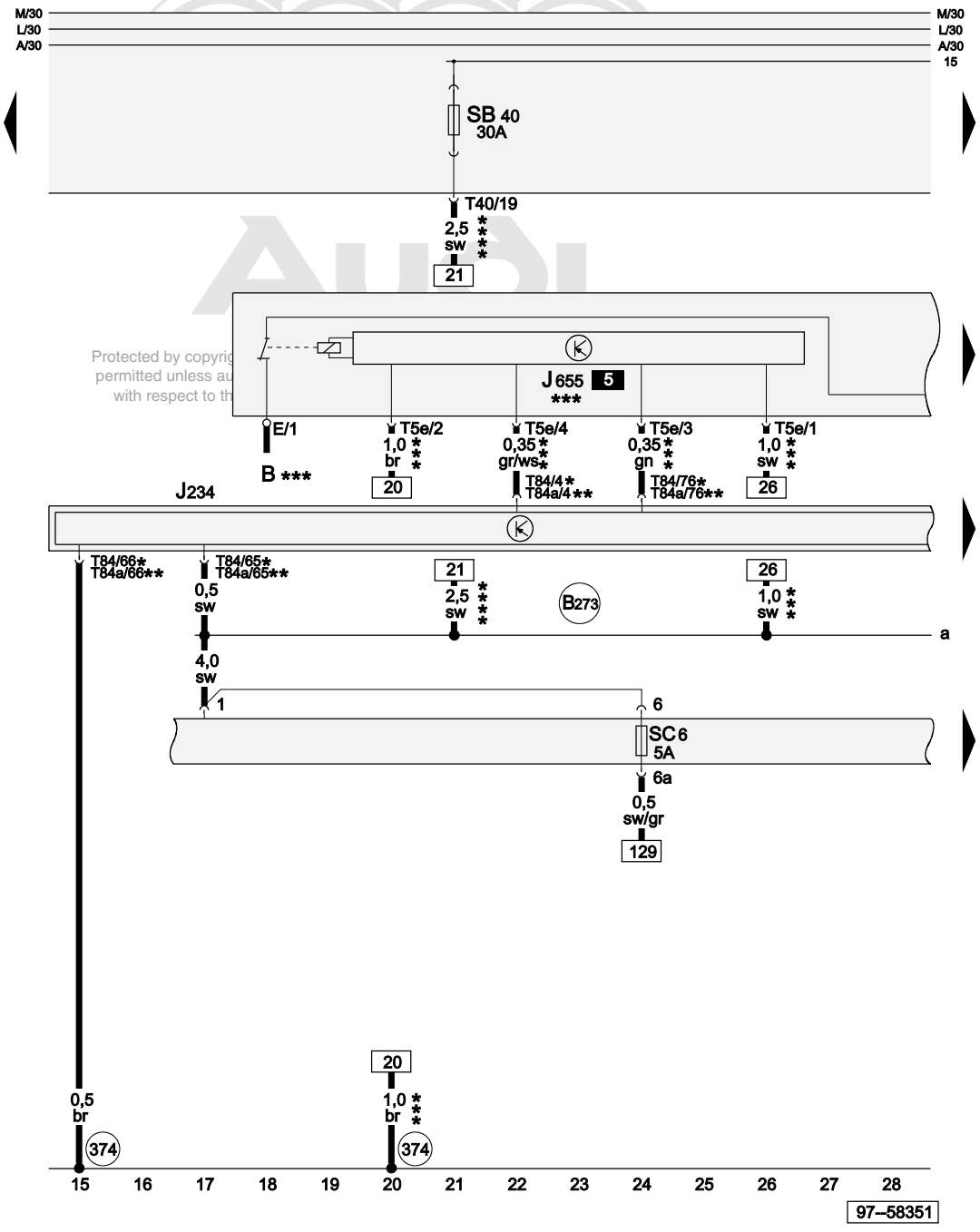
Earth connections, earth points

- 43 Earth point, lower part of right A-pillar
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection -1-, in main wiring harness
- 369 Earth connection -4-, in main wiring harness
- 372 Earth connection -7-, in main wiring harness
- 374 Earth connection -9-, in main wiring harness
- 375 Earth connection -10-, in main wiring harness
- 637 Earth point, airbag control unit
- 655 Earth point, on left headlight

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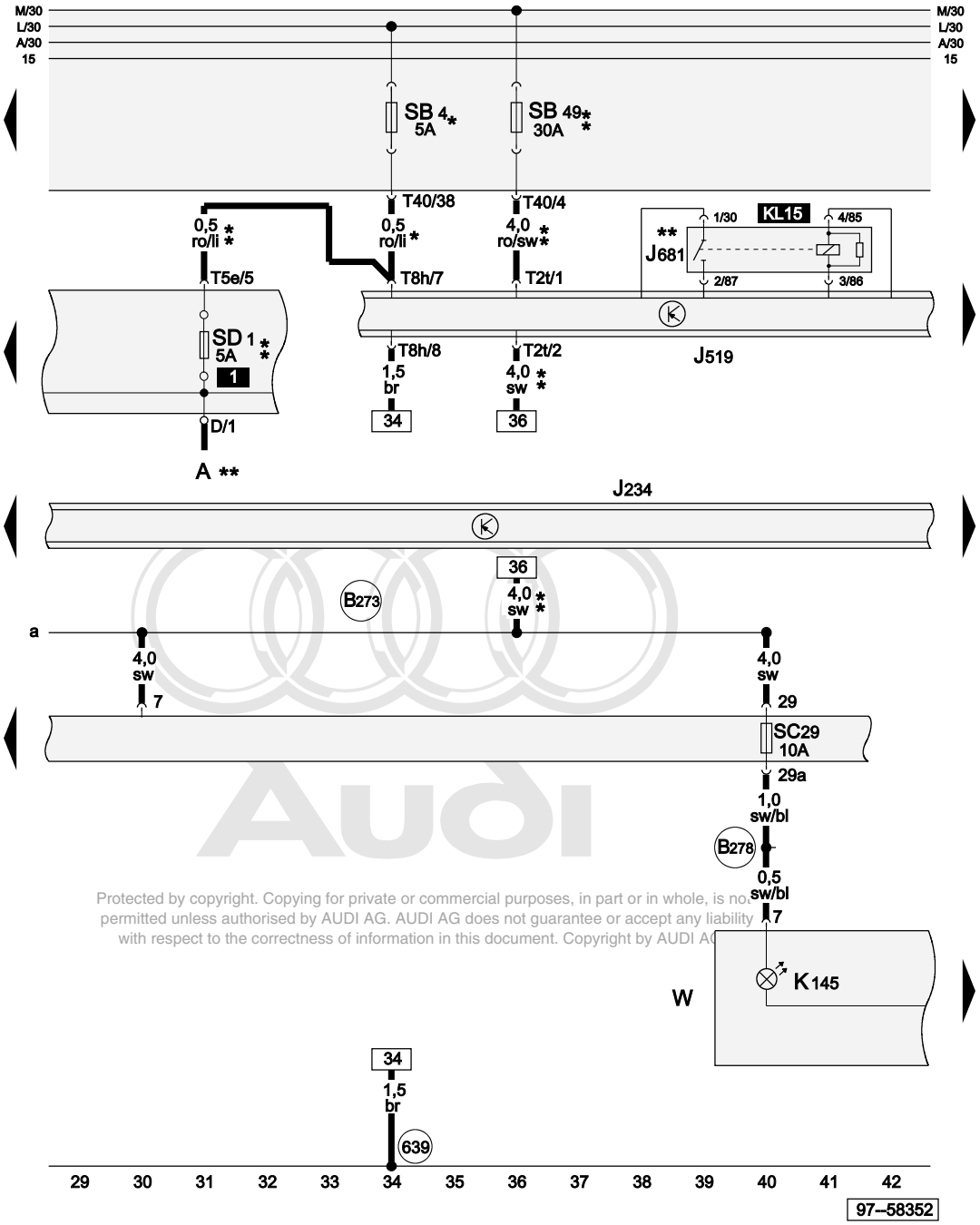
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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Fuse on fuse holder, battery cut-off relay

B	Starter
J234	Airbag control unit
J655	Battery cut-off relay
SB40	Fuse -40- on fuse holder
SC6	Fuse -6- on fuse holder
T5e	5-pin connector, yellow, on main fuse box
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
374	Earth connection -9-, in main wiring harness
B273	Positive connection (15), in main wiring harness
*	For models with curtain airbag (connector locking blue) only
**	For models without curtain airbag (connector locking green) only
***	For models with battery in luggage compartment only
****	For models with battery in engine compartment only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

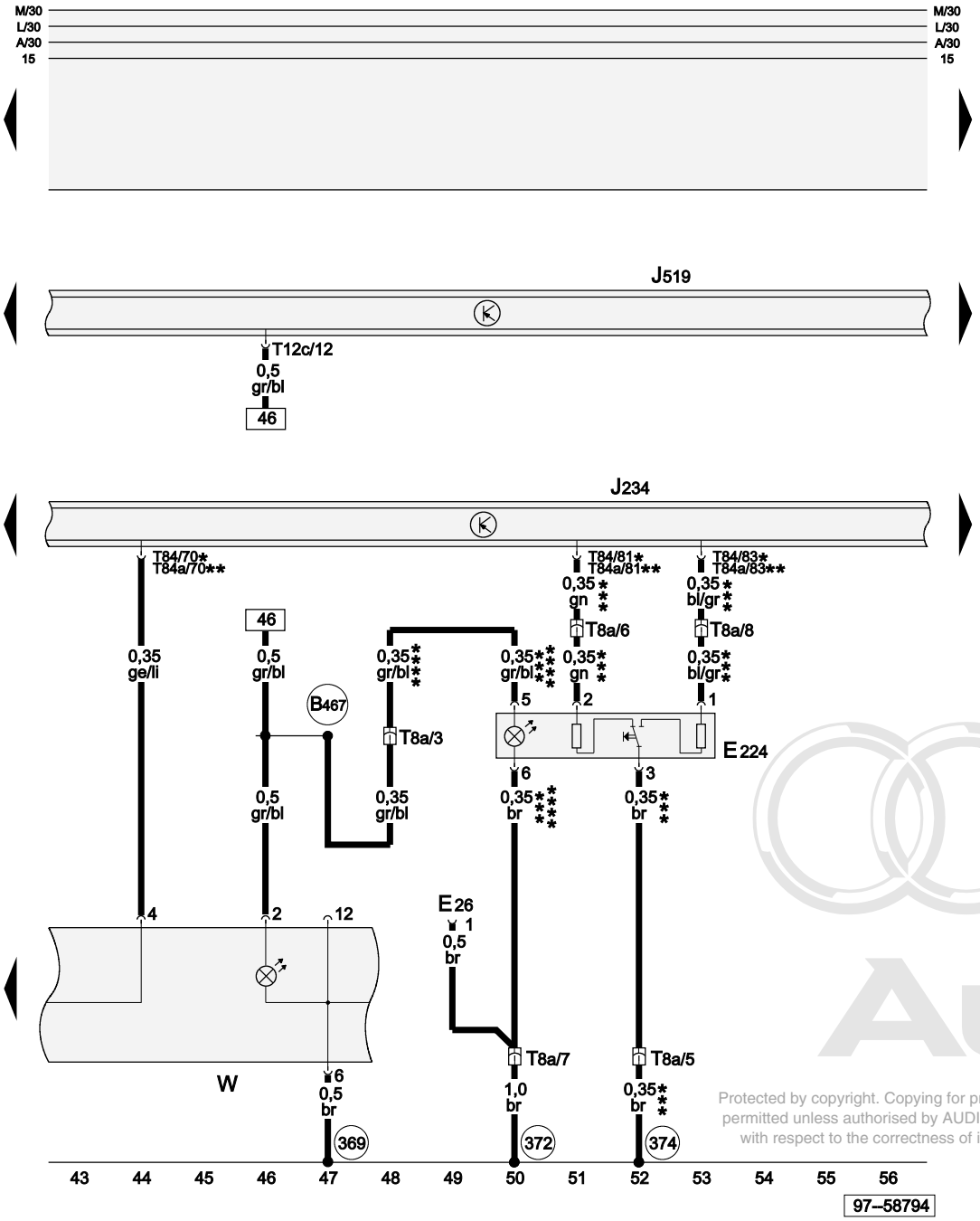


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Terminal 15 voltage supply relay 2, front passenger side airbag deactivated warning lamp

A	Battery
J234	Airbag control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
K145	Front passenger side airbag deactivated warning lamp
SC29	Fuse -29- on fuse holder
SB4	Fuse -4- on fuse holder
SB49	Fuse -49- on fuse holder
SD1	Fuse -1- on fuse holder
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
W	Front interior light
639	Earth point, left A-pillar
B273	Positive connection (15), in main wiring harness
B278	Positive connection -2- (15a), in main wiring harness
*	For models with battery in engine compartment only
**	For models with battery in luggage compartment only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

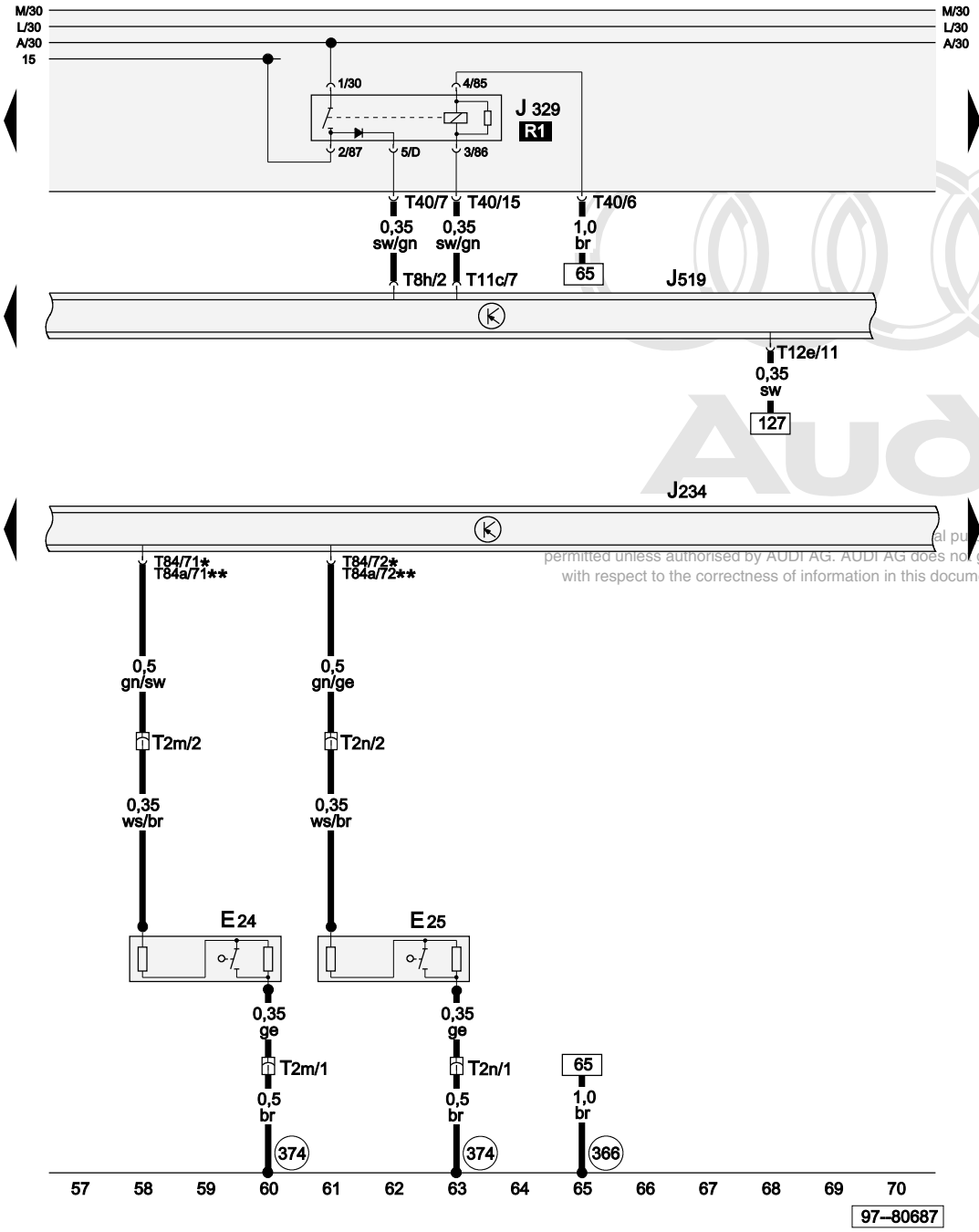


Key operated switch to deactivate front passenger side airbag

E26	Glove compartment light switch
E224	Key operated switch to deactivate front passenger side airbag
J234	Airbag control unit
J519	Onboard supply control unit
T8a	8-pin connector, black, near glove compartment
T12c	12-pin connector, black (connector B)
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
W	Front interior light
369	Earth connection -4-, in main wiring harness
372	Earth connection -7-, in main wiring harness
374	Earth connection -9-, in main wiring harness
B467	Connection -3- in main wiring harness
*	For models with curtain airbag (connector locking blue) only
**	For models without curtain airbag (connector locking green) only
***	For models with key operated switch to deactivate airbag only
****	Is dropped from November 2003

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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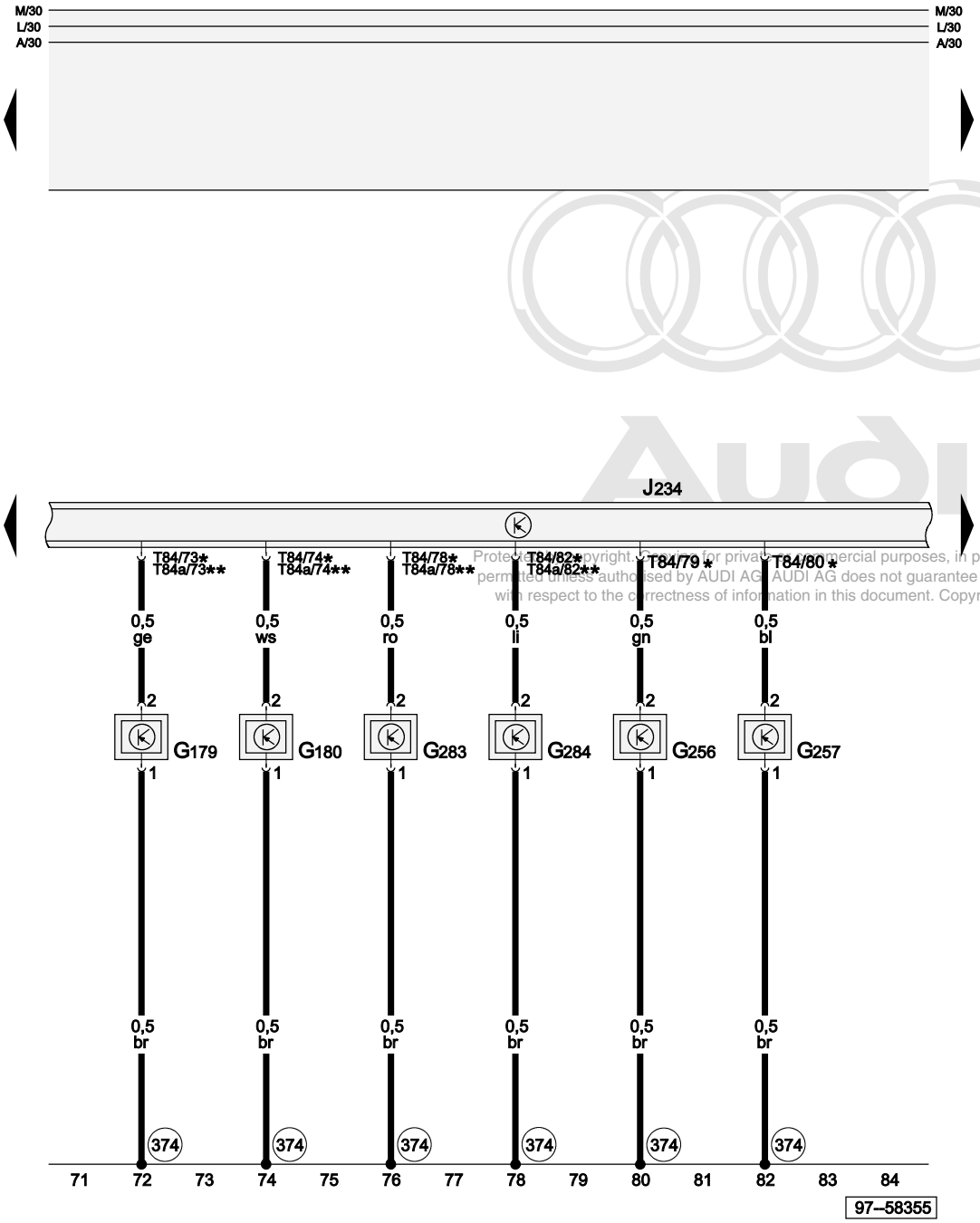
Belt switch, terminal 15 voltage supply relay

E24	Driver side belt switch
E25	Front passenger side belt switch
J234	Airbag control unit
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
T2m	2-pin connector, yellow, under driver seat
T2n	2-pin connector, yellow, under front passenger seat
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T12e	12-pin connector, black (connector G)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
366	Earth connection -1-, in main wiring harness
374	Earth connection -9-, in main wiring harness
*	For models with curtain airbag (connector locking blue) only
**	For models without curtain airbag (connector locking green) only

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ge	=	yellow
or	=	orange
rs	=	pink

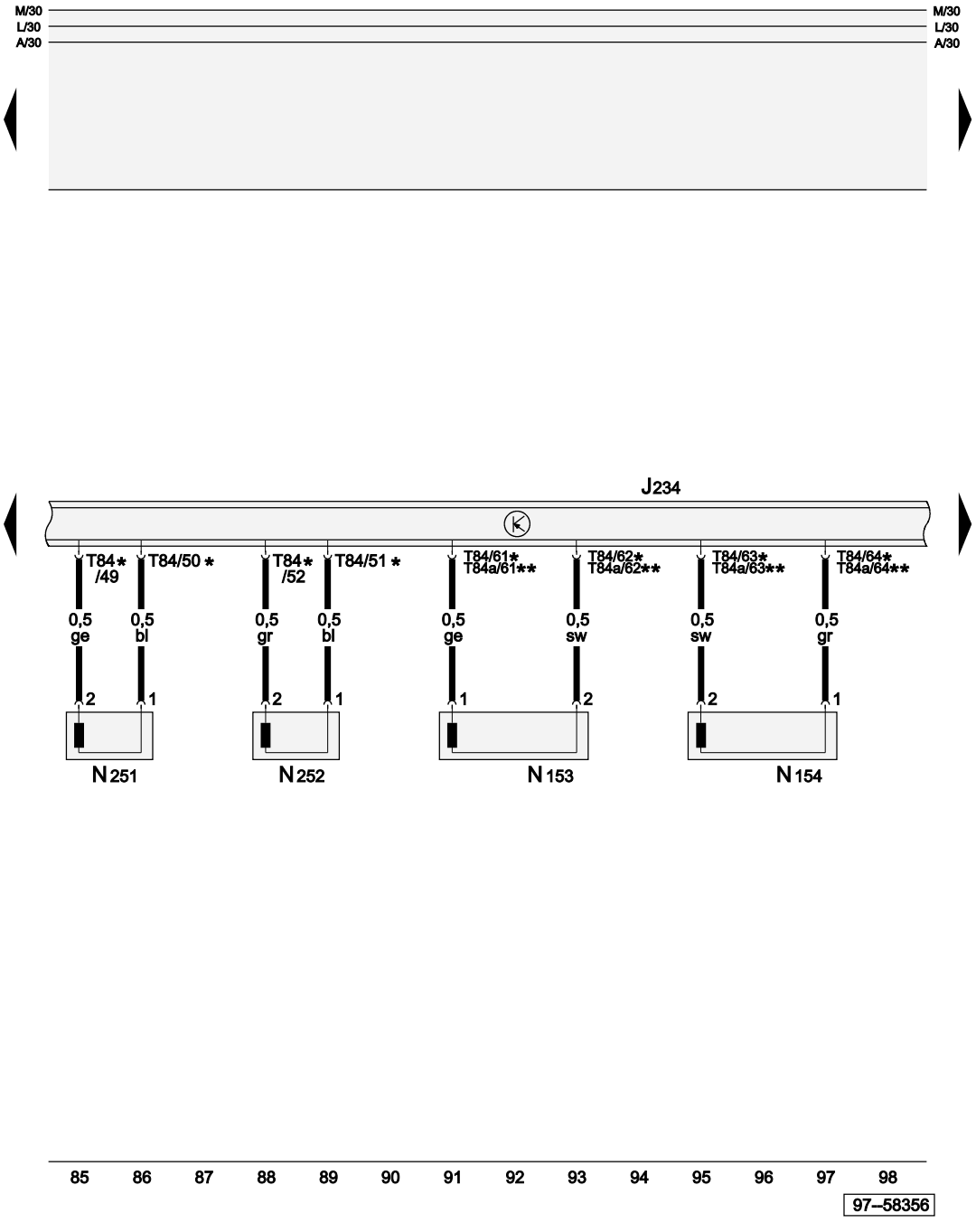


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Crash sensors

G179	Side airbag crash sensor on driver side
G180	Side airbag crash sensor on front passenger side
G256	Rear side airbag crash sensor on driver side
G257	Rear side airbag crash sensor on front passenger side
G283	Front airbag crash sensor for driver side
G284	Front airbag crash sensor for front passenger side
J234	Airbag control unit
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
(374)	Earth connection -9-, in main wiring harness
*	For models with curtain airbag (connector locking blue) only
**	For models without curtain airbag (connector locking green) only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

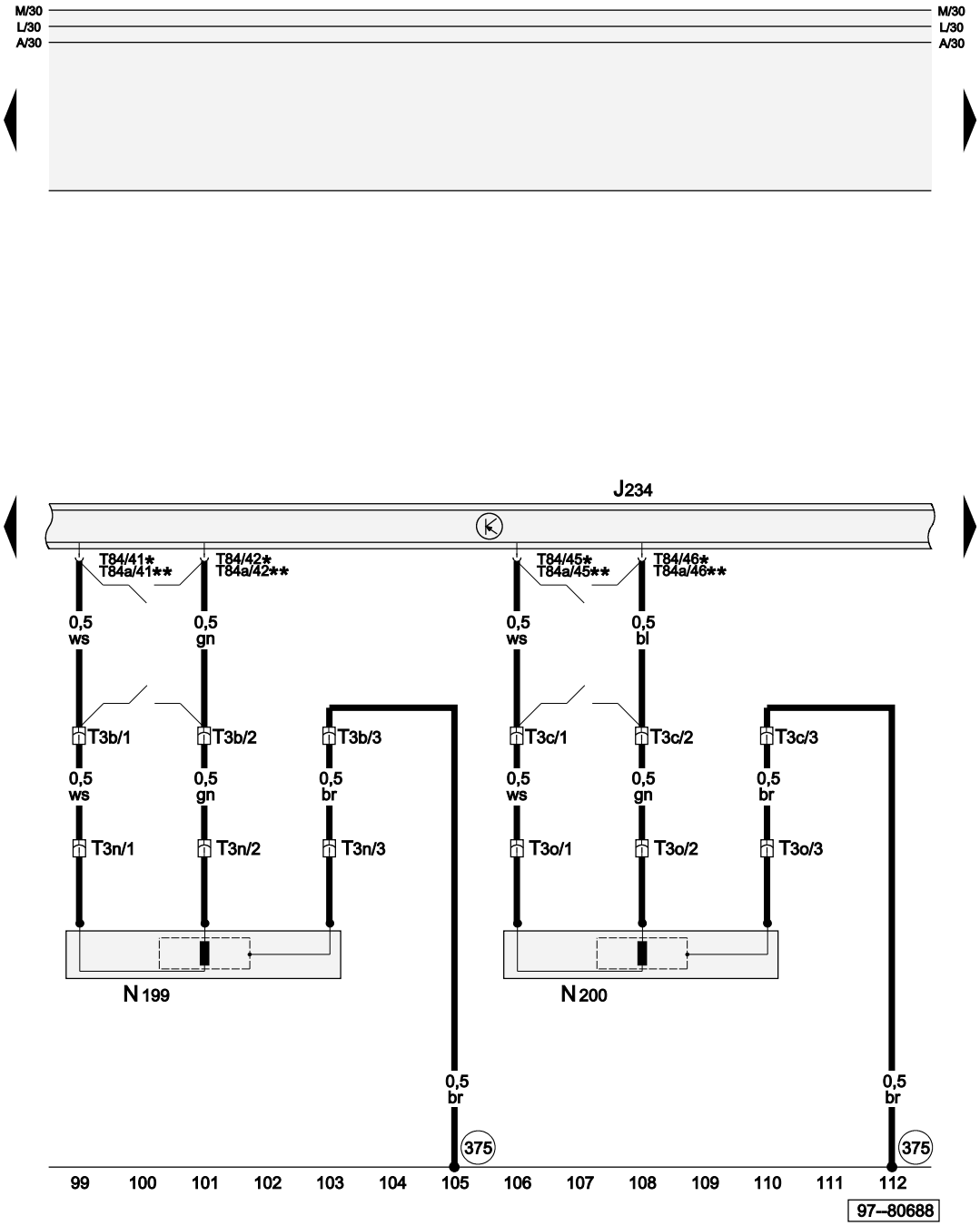


Seat belt tensioner, curtain airbag igniter

J234	Airbag control unit
N153	Driver seat belt tensioner igniter 1
N154	Front passenger seat belt tensioner igniter 1
N251	Driver side curtain airbag igniter
N252	Front passenger side curtain airbag igniter
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
*	For models with curtain airbag (connector locking blue) only
**	For models without curtain airbag (connector locking green) only

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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

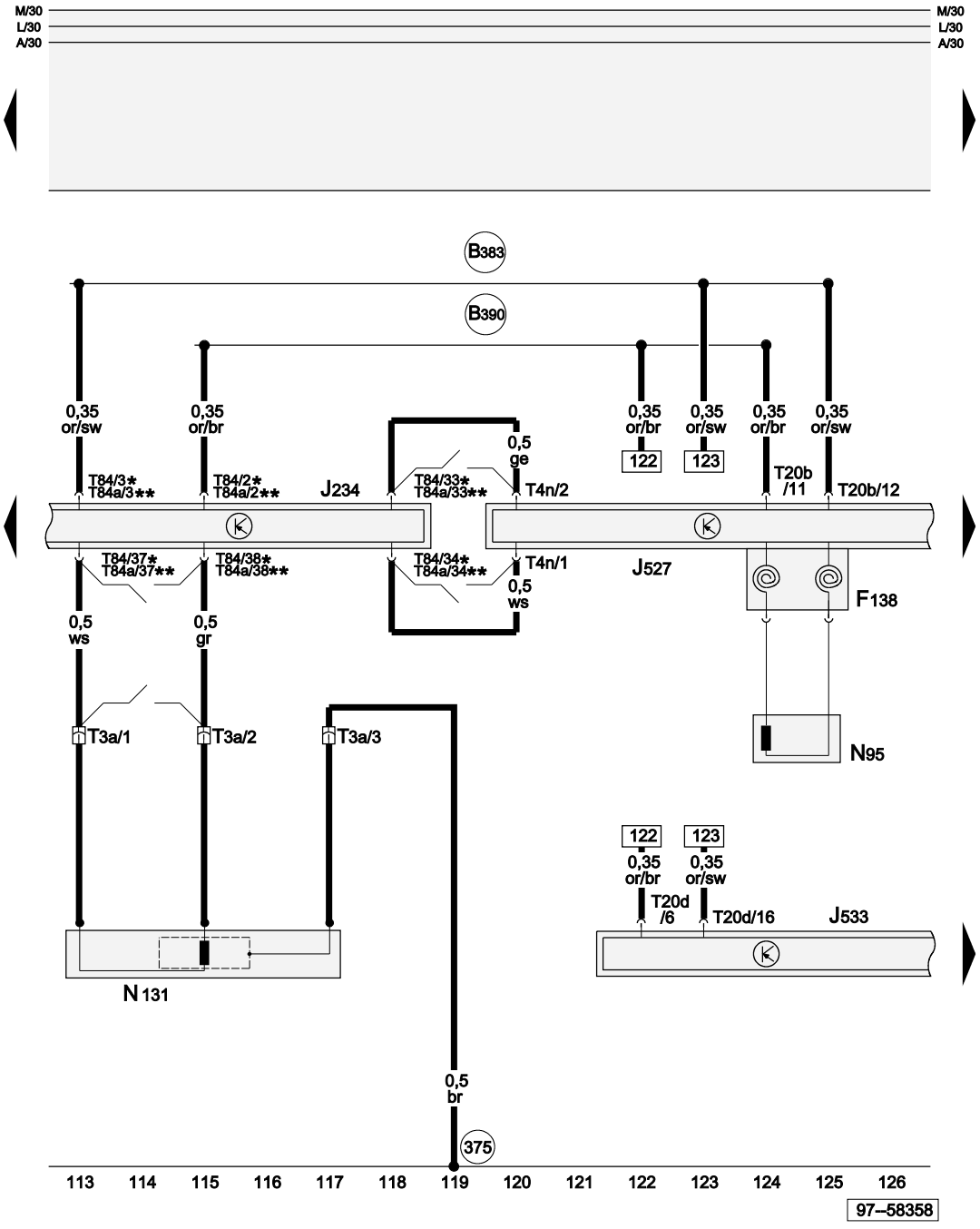


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Side airbag igniter, driver side, side airbag igniter, front passenger side

J234	Airbag control unit
N199	Side airbag igniter on driver side
N200	Side airbag igniter on front passenger side
T3b	3-pin connector, yellow, near driver seat
T3c	3-pin connector, yellow, near front passenger seat
T3n	3-pin connector, in driver seat
T3o	3-pin connector, in front passenger seat
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
375	Earth connection 10, in main wiring harness
*	For models with curtain airbag (connector locking blue) only
**	For models without curtain airbag (connector locking green) only
<fo:external-graphic src="../PDOC/samba/tools/png-convert/out//slp/ft_icons/kurzbr_l.png" content-width="20pt" scaling="uniform" />	Short circuit bridge becomes effective when connector is unplugged

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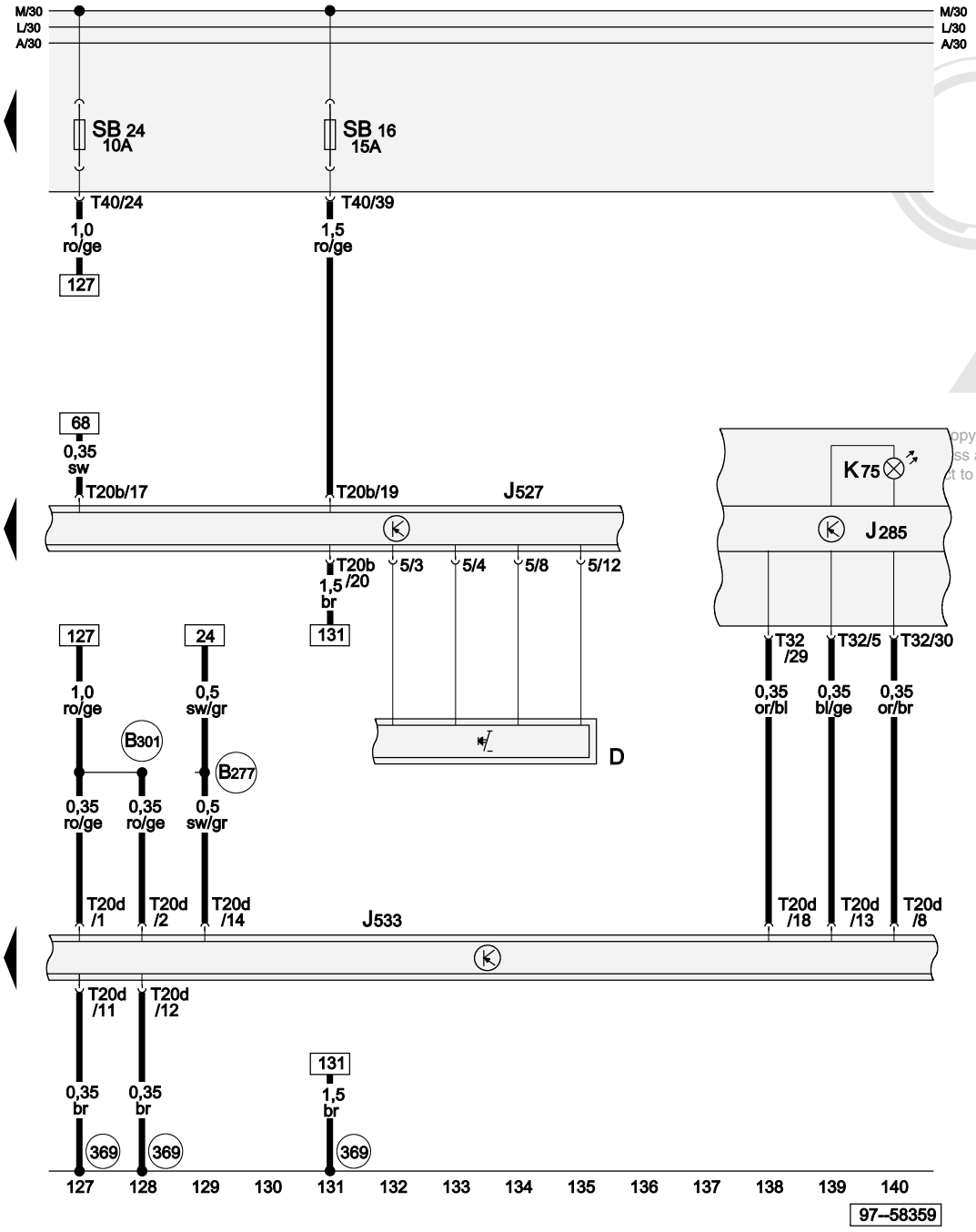


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Driver side airbag igniter, front passenger side airbag igniter 1

F138	Airbag coil connector/return spring with slip ring
J234	Airbag control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
N95	Driver side airbag igniter
N131	Front passenger side airbag igniter 1
T3a	3-pin connector, yellow, near glove compartment
T4n	4-pin connector, yellow (connector B)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
375	Earth connection -10-, in main wiring harness
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness
*	For models with curtain airbag (connector locking blue) only
**	For models without curtain airbag (connector locking green) only
<fo:exter	Short circuit bridge becomes effective when connector is
nal-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/kurzbr_l.png" content-width="20pt" scaling="uniform"/>	unplugged

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Control unit with display in dash panel insert

D	Ignition/starter switch
J285	Control unit with display in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K75	Airbag warning lamp
SB16	Fuse -16- on fuse holder
SB24	Fuse -24- on fuse holder
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection -4-, in main wiring harness
B277	Positive connection -1- (15a), in main wiring harness
B301	Positive connection -5- (30), in main wiring harness

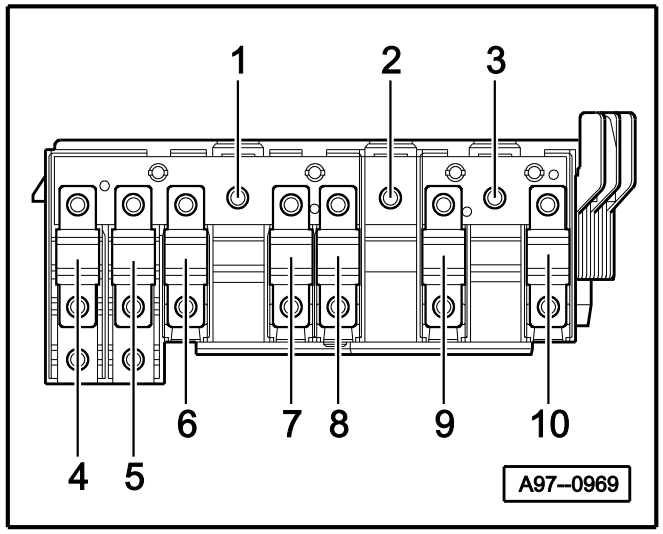
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br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Air conditioning system

from model year 2004

Main fuse holder, electronics box



- On electronics box, in engine compartment, front left

Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

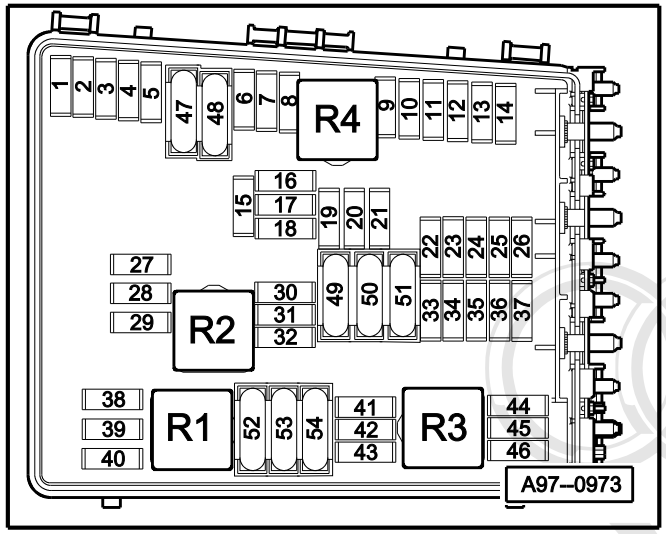
Fuse locations
7 - Fuse 4 on fuse holder/battery (SA4)
8 - Fuse 5 on fuse holder/battery (SA5)
9 - Fuse 6 on fuse holder/battery (SA6)

Note:

- *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

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Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

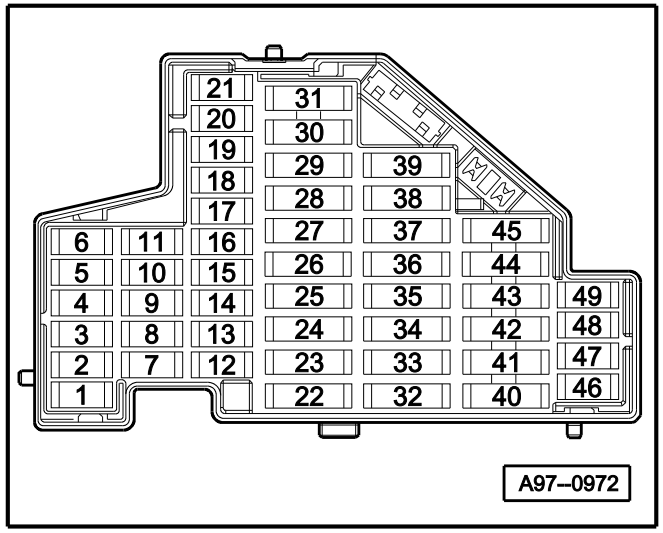
Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

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Fuse holder



- Driver side dash panel

Fuse colours

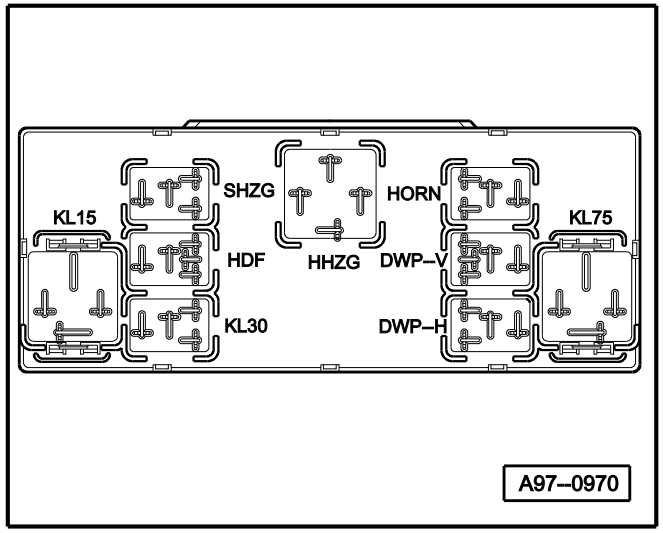
40 A - orange
30 A - green
20 A - yellow
10 A - red
5 A - beige

Note:

- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

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Onboard supply control unit - J519

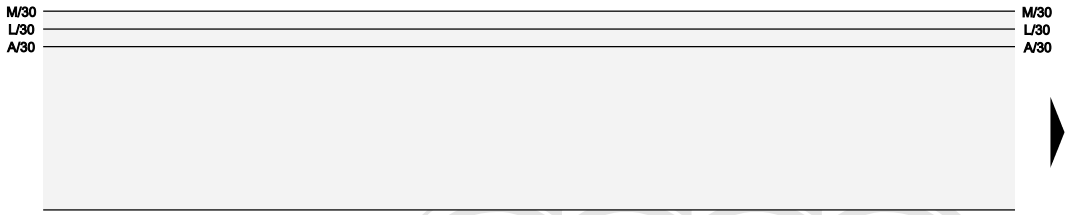


♦ Dash panel, driver side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay -2 - J681
HHZG - Heated rear window relay - J9
KL75 - X-contact relief relay - J59

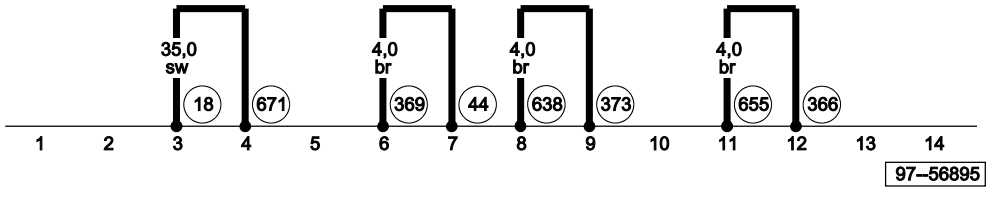
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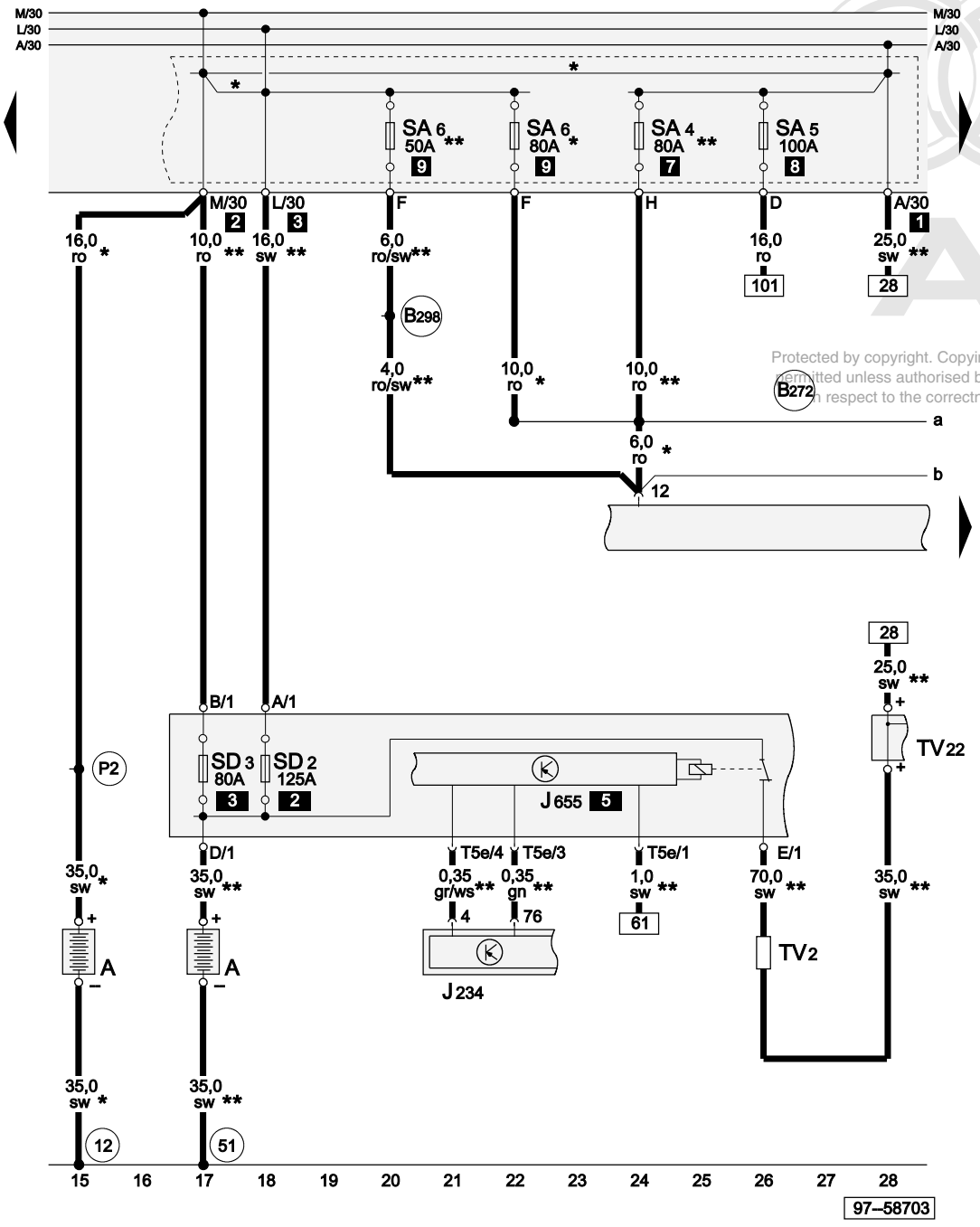
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Earth point, earth connections

18	Earth point, on engine block
44	Earth point, lower part of left A-pillar
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
373	Earth connection 8, in main wiring harness
638	Earth point, right A-pillar
655	Earth point, on left headlight
671	Earth point 1, on front of left longitudinal member



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

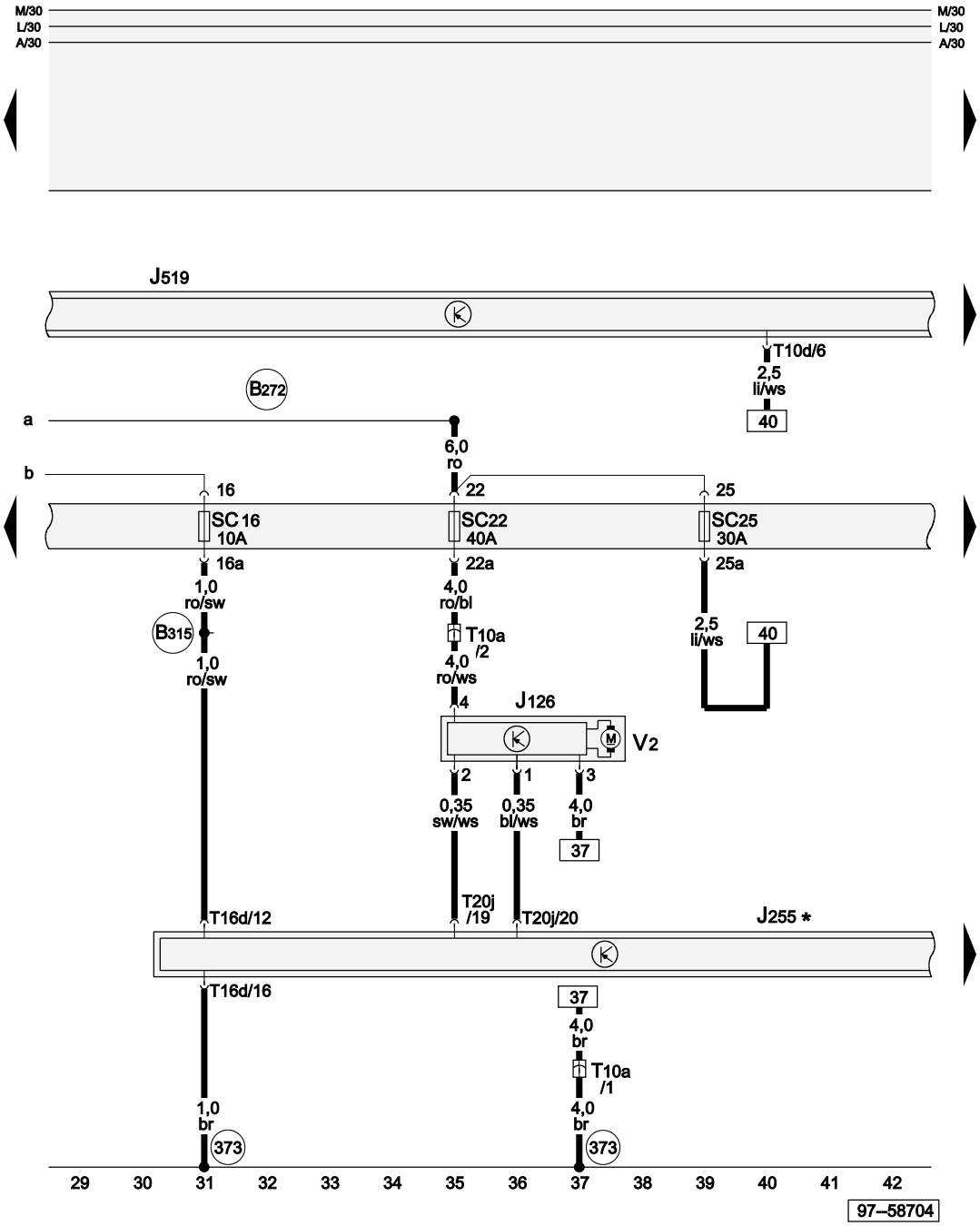


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Battery, battery cut-off relay

A	Battery
J234	Airbag control unit
J655	Battery cut-off relay
SA4	Fuse 4 on fuse holder/battery
SA5	Fuse 5 on fuse holder/battery
SA6	Fuse 6 on fuse holder/battery
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
T5e	5-pin connector, yellow, on main fuse box
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
12	Earth point, on left in engine compartment
51	Earth point, on right in luggage compartment
B272	Positive connection (30), in main wiring harness
B298	Positive connection -2- (30), in main wiring harness
P2	Positive connection (30), in battery wiring harness
*	⇒ applicable Current Flow Diagram, basic equipment with battery in engine compartment
**	⇒ applicable Current Flow Diagram, basic equipment with battery in luggage compartment

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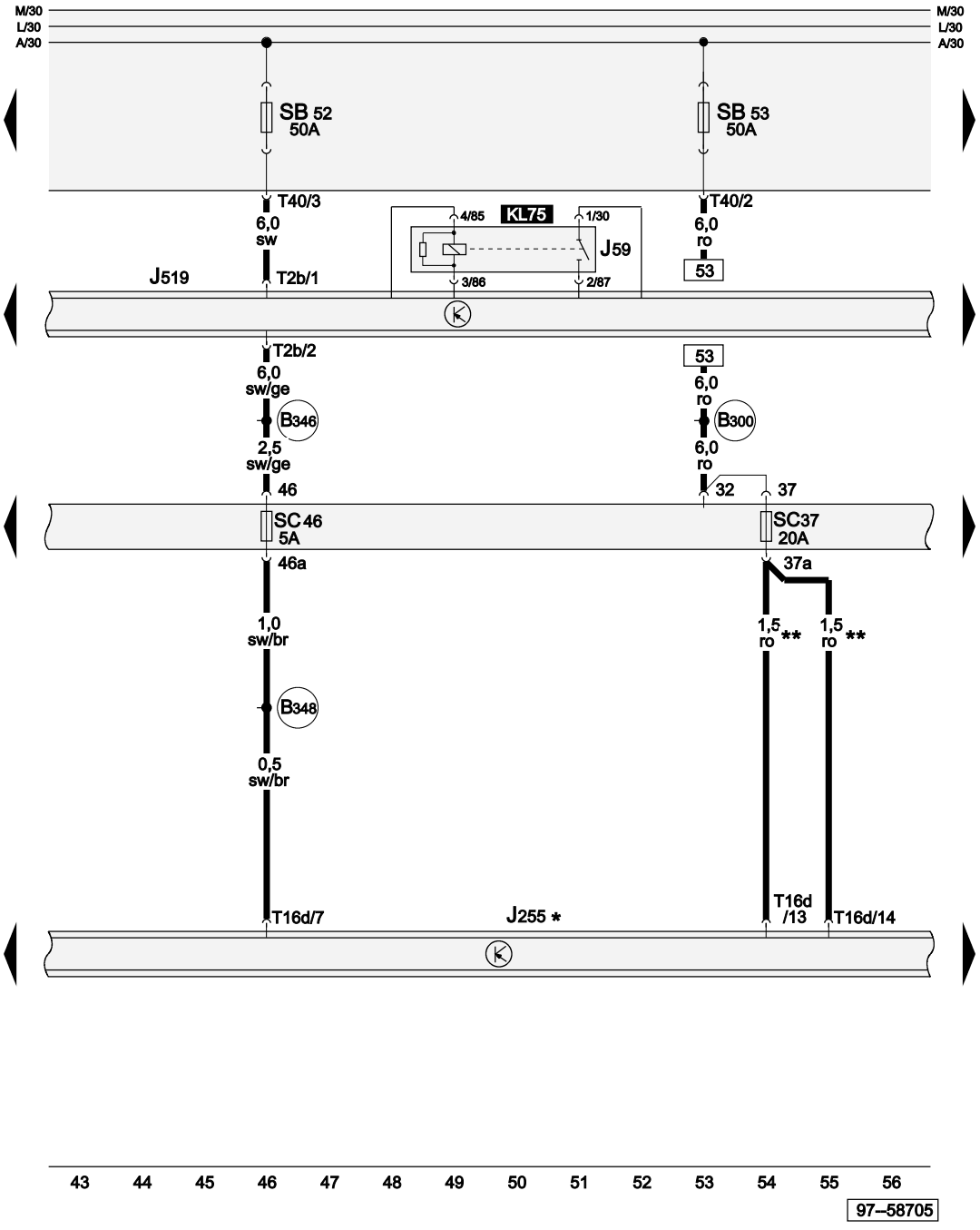


Fresh air blower control unit, fuses

J126	Fresh air blower control unit
J255	Climatronic control unit
J519	Onboard supply control unit
SC16	Fuse 16 on fuse holder
SC22	Fuse 22 on fuse holder
SC25	Fuse 25 on fuse holder
T10a	10-pin connector, black, behind the glove compartment
T10d	10-pin connector, black (connector K)
T16d	16-pin connector, black (connector D)
T20j	20-pin connector, red (connector B)
V2	Fresh air blower
373	Earth connection 8, in main wiring harness
B272	Positive connection (30), in main wiring harness
B315	Positive connection 1 (30a), in main wiring harness
*	operating and display unit for air conditioning system/Climatronic

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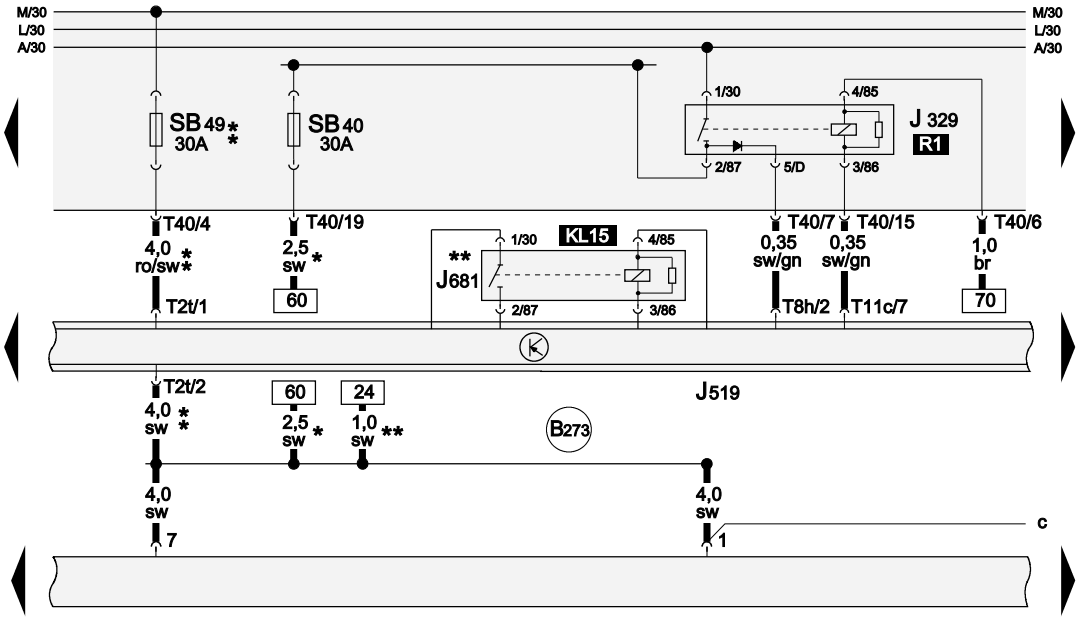


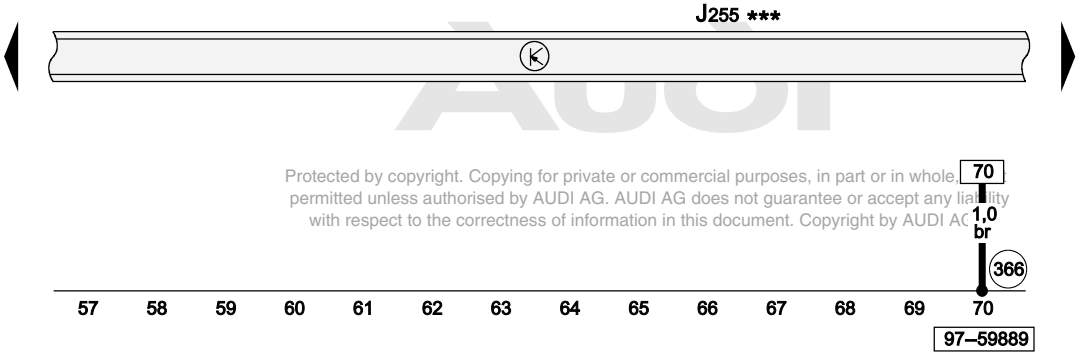
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

X-contact relief relay, fuses

J59	X-contact relief relay
J255	Climatronic control unit
J519	Onboard supply control unit
SB52	Fuse 52 on fuse holder
SB53	Fuse 53 on fuse holder
SC37	Fuse 37 on fuse holder
SC46	Fuse 46 on fuse holder
T2b	2-pin connector, brown (connector I)
T16d	16-pin connector, black (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
B300	Positive connection -4- (30), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
*	operating and display unit for air conditioning system/Climatronic
**	for models with seat heating only

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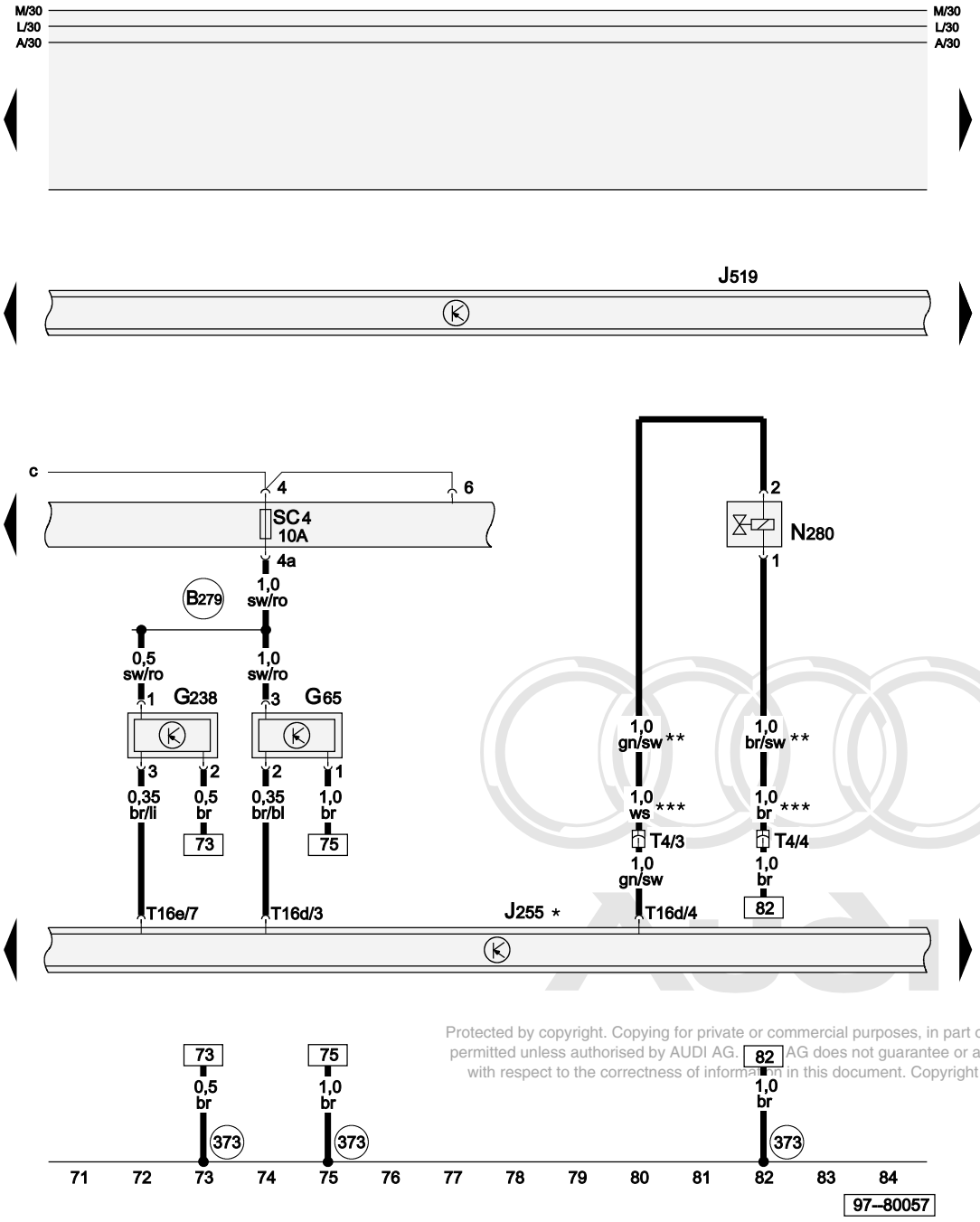


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Terminal 15 voltage supply relay, fuses

J255	Climatronic control unit
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder
SB49	Fuse 49 on fuse holder
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B273	Positive connection (15), in main wiring harness
*	⇒ applicable Current Flow Diagram, basic equipment with battery in engine compartment
**	⇒ applicable Current Flow Diagram, basic equipment with battery in luggage compartment
***	operating and display unit for air conditioning system/Climatronic

ws	=	white
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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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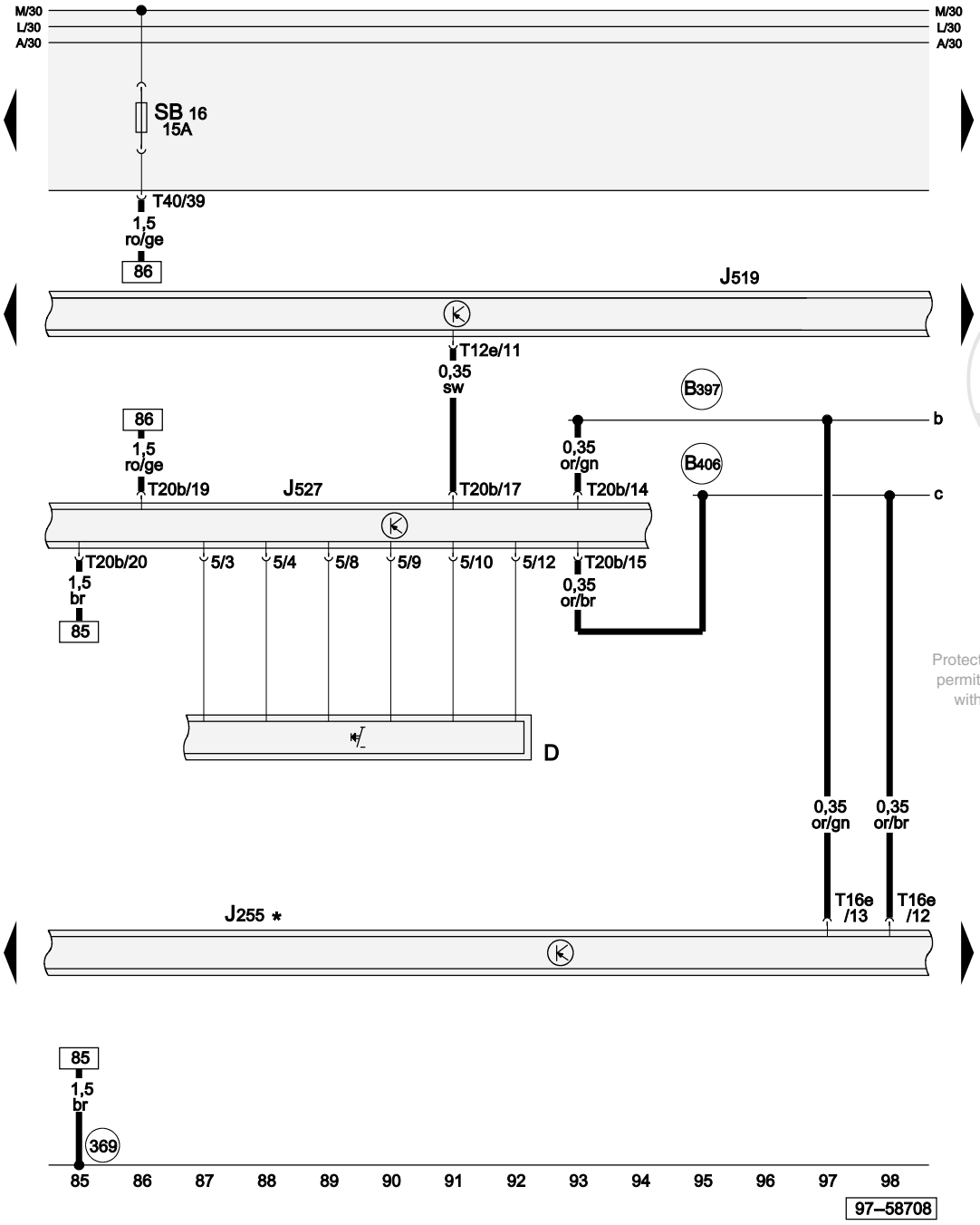


High pressure sender, air quality sensor, compressor regulating valve, air conditioning system

G65	High pressure sender
G238	Air quality sensor
J255	Climatronic control unit
J519	Onboard supply control unit
N280	Air conditioning system compressor regulating valve
SC4	Fuse 4 on fuse holder
T4	4-pin connector, black, in front left engine compartment
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
373	Earth connection 8, in main wiring harness
B279	Positive connection 3 (15a), in main wiring harness
*	operating and display unit for air conditioning system/Climatronic
**	for models with engine code BGU, AXW, BDB, BKC, AZV, BKD only
***	for models with engine codes BAG only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
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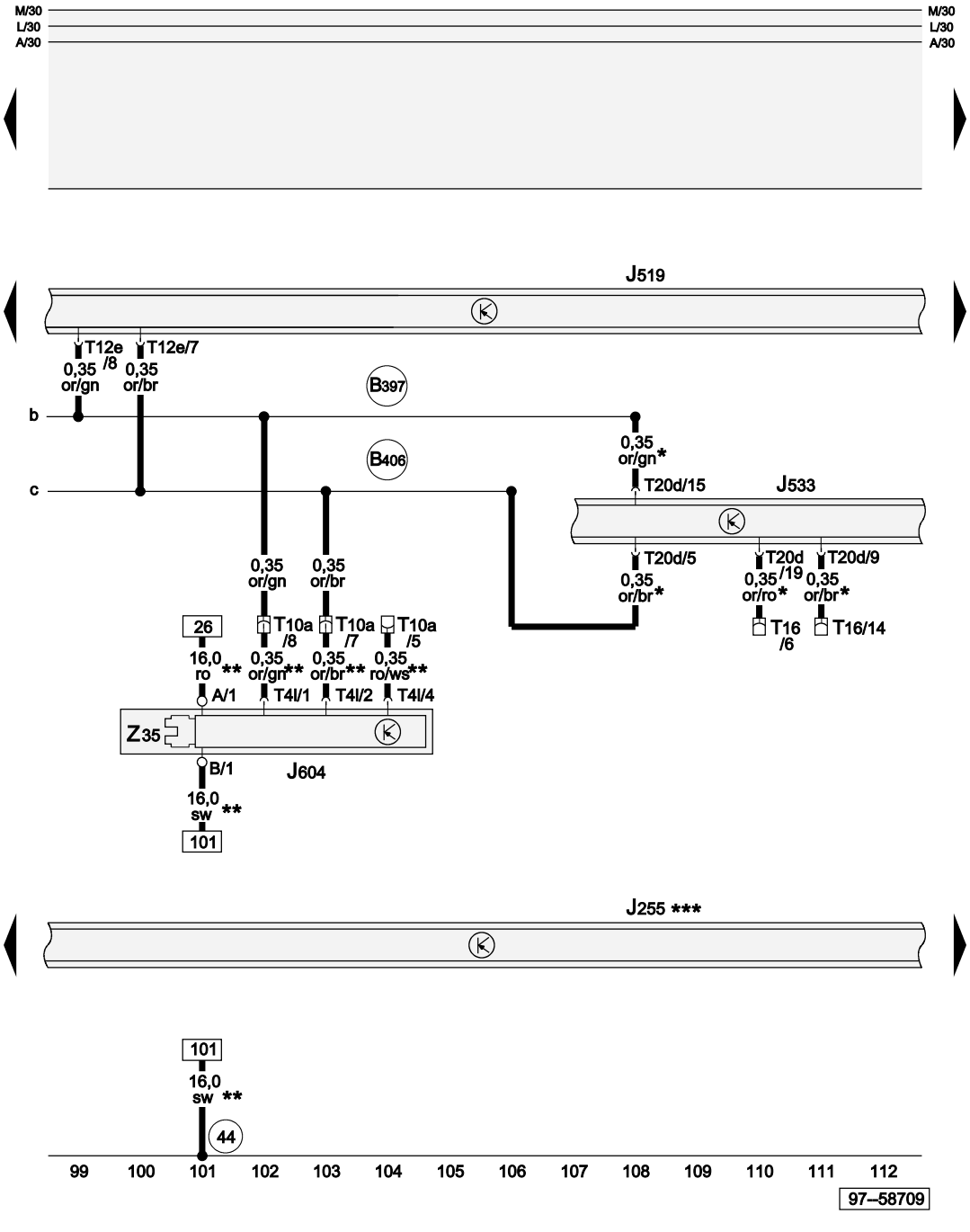


Ignition/starter switch, convenience CAN bus high

D	Ignition/starter switch
J255	Climatronic control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB16	Fuse 16 on fuse holder
T12e	12-pin connector, black (connector G)
T16e	16-pin connector, brown (connector C)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	operating and display unit for air conditioning system/Climatronic

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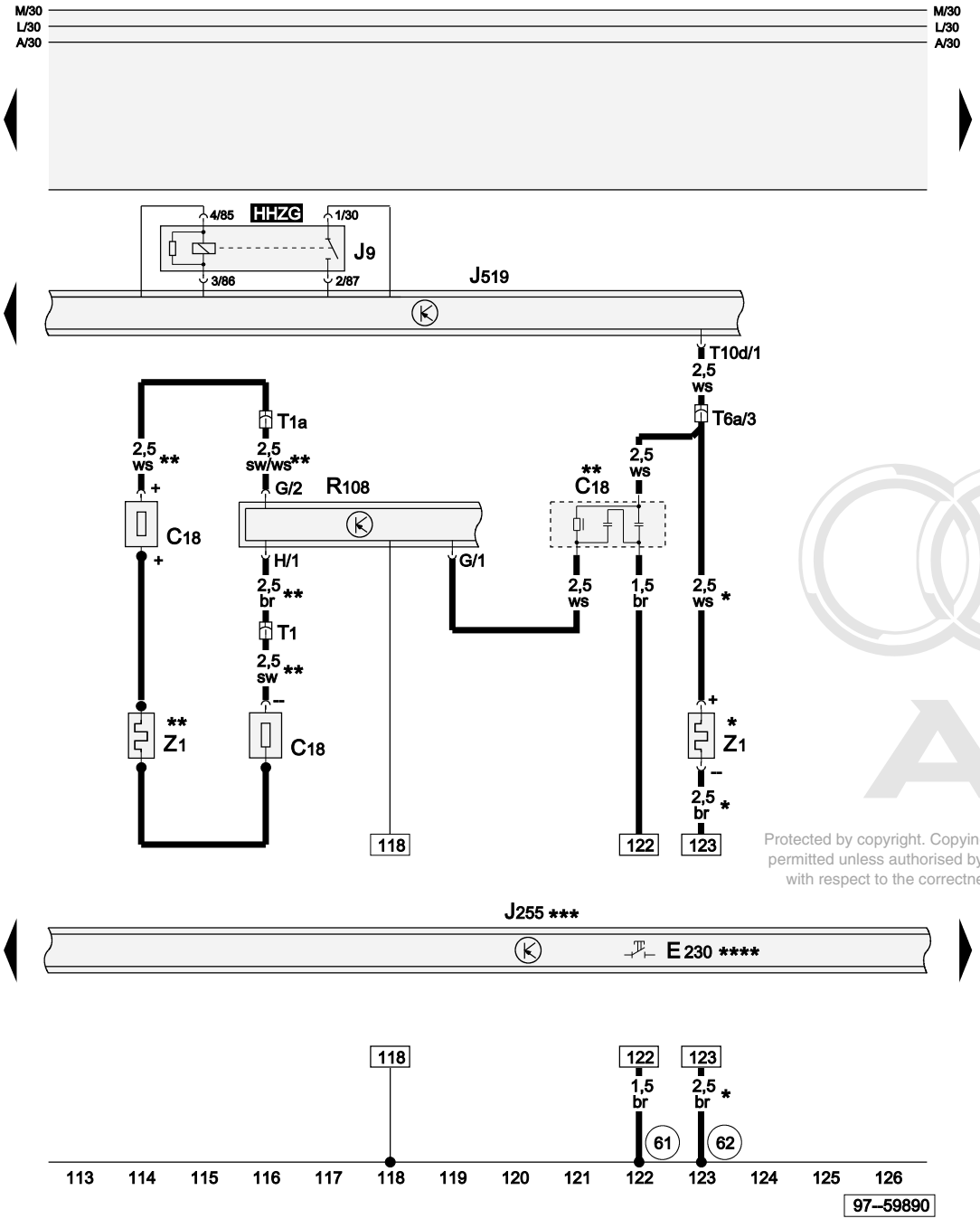


Auxiliary air heater element, axiliary air heater control unit, convenience CAN bus

J255	Climatronic control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J604	Auxiliary air heater control unit
T4l	4-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T12e	12-pin connector, black (connector G)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
Z35	Auxiliary heating heater element
44	Earth point, lower part of left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	⇒ applicable Current Flow Diagram: diagnostic connector
**	for models with auxiliary air heater only
***	operating and display unit for air conditioning system/Climatronic

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Heated rear window relay, air conditioning system compressor regulating valve

C18	Window aerial suppression filter
E230	Heated rear window button
J9	Heated rear window relay
J255	Climatronic control unit
J519	Onboard supply control unit
R108	Left aerial module
T1	1-pin connector, black, in rear lid
T1a	1-pin connector, brown, in rear lid
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
61	Earth point, left C-pillar
62	Earth point, right C-pillar
*	for models without radio only
**	for models with radio only
***	operating and display unit for air conditioning system/Climatronic
****	Operation for Z1 via convenience CAN bus

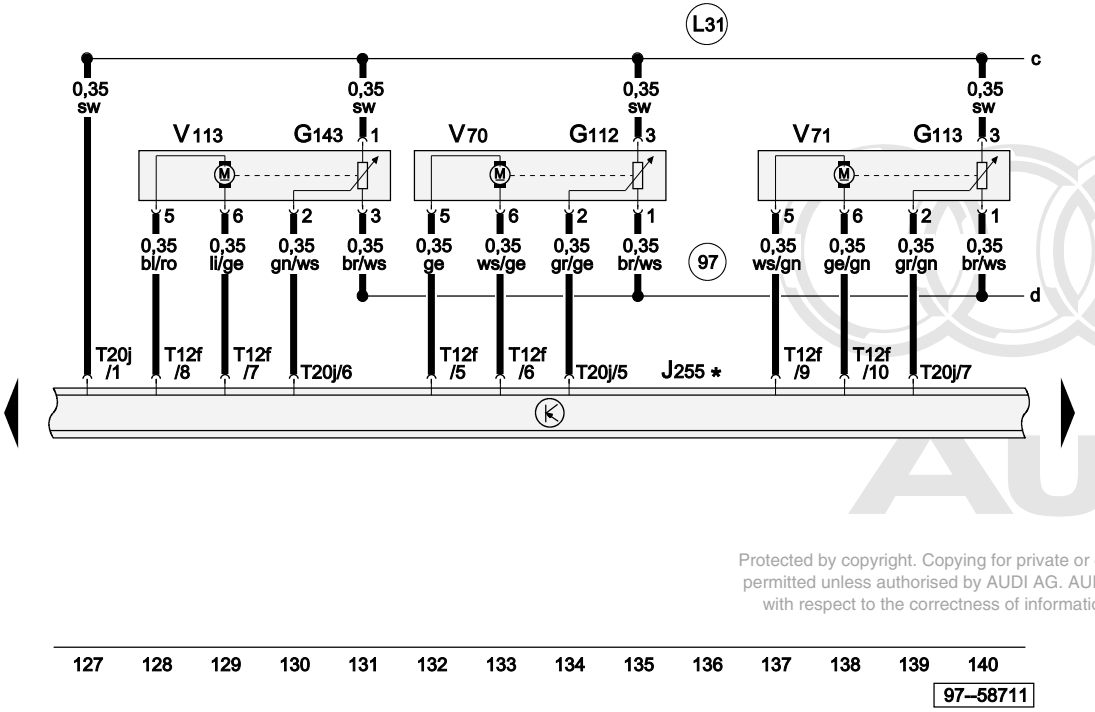
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Central flap control motor, air flow flap control motor, air recirculation flap control motor

G112	Central flap control motor potentiometer
G113	Air flow flap control motor potentiometer
G143	Air recirculation flap control motor potentiometer
J255	Climatronic control unit
T12f	12-pin connector, black (connector A)
T20j	20-pin connector, red (connector B)
V70	Central flap control motor
V71	Air flow flap control motor
V113	Air recirculation flap control motor
97	Earth connection 1, in air conditioning system wiring harness
L31	Connection (5V), in air conditioning system wiring harness
*	operating and display unit for air conditioning system/Climatronic



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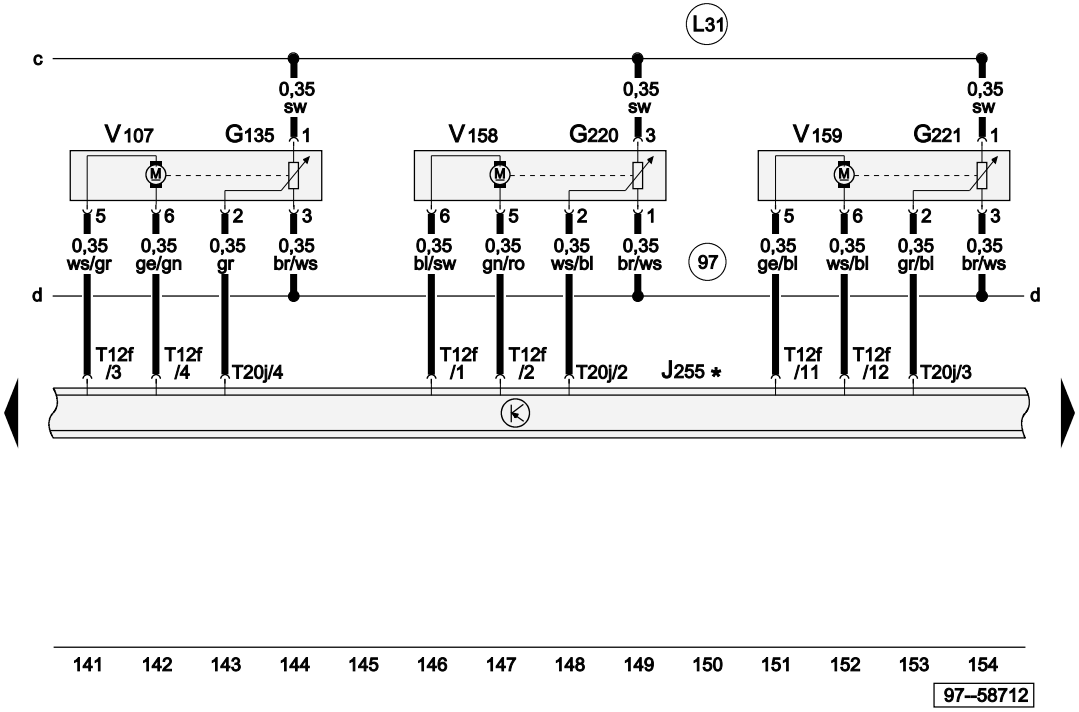
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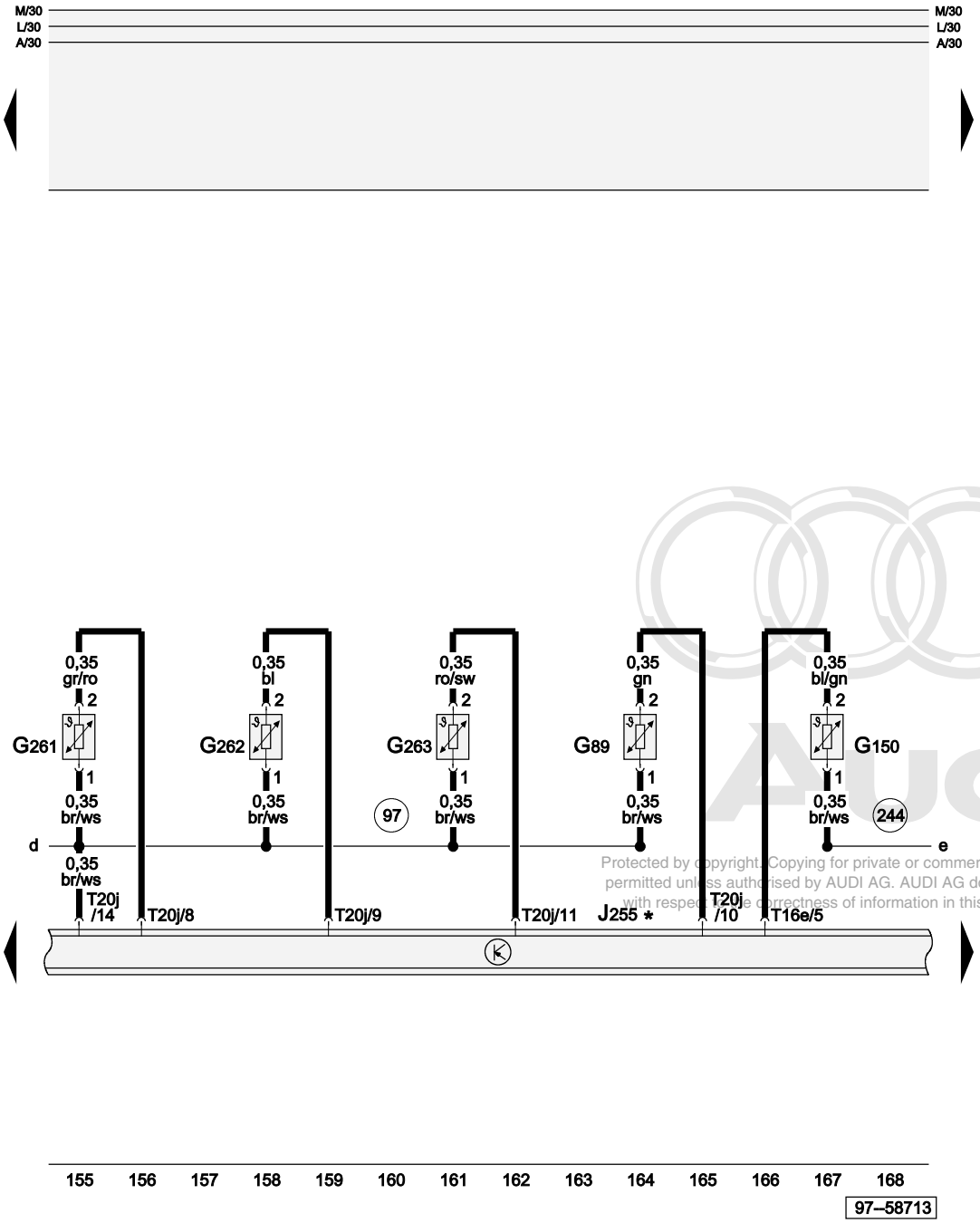
Defroster flap control motor, left temperature flap control motor, right temperature flap control motor

G135	Defroster flap control motor potentiometer
G220	Potentiometer for left temperature flap control motor
G221	Potentiometer for right temperature flap control motor
J255	Climatronic control unit
T12f	12-pin connector, black (connector A)
T20j	20-pin connector, red (connector B)
V107	Defroster flap control motor
V158	Left temperature flap control motor
V159	Right temperature flap control motor
(97)	Earth connection 1, in air conditioning system wiring harness
(L31)	Connection (5V), in air conditioning system wiring harness
*	operating and display unit for air conditioning system/Climatronic

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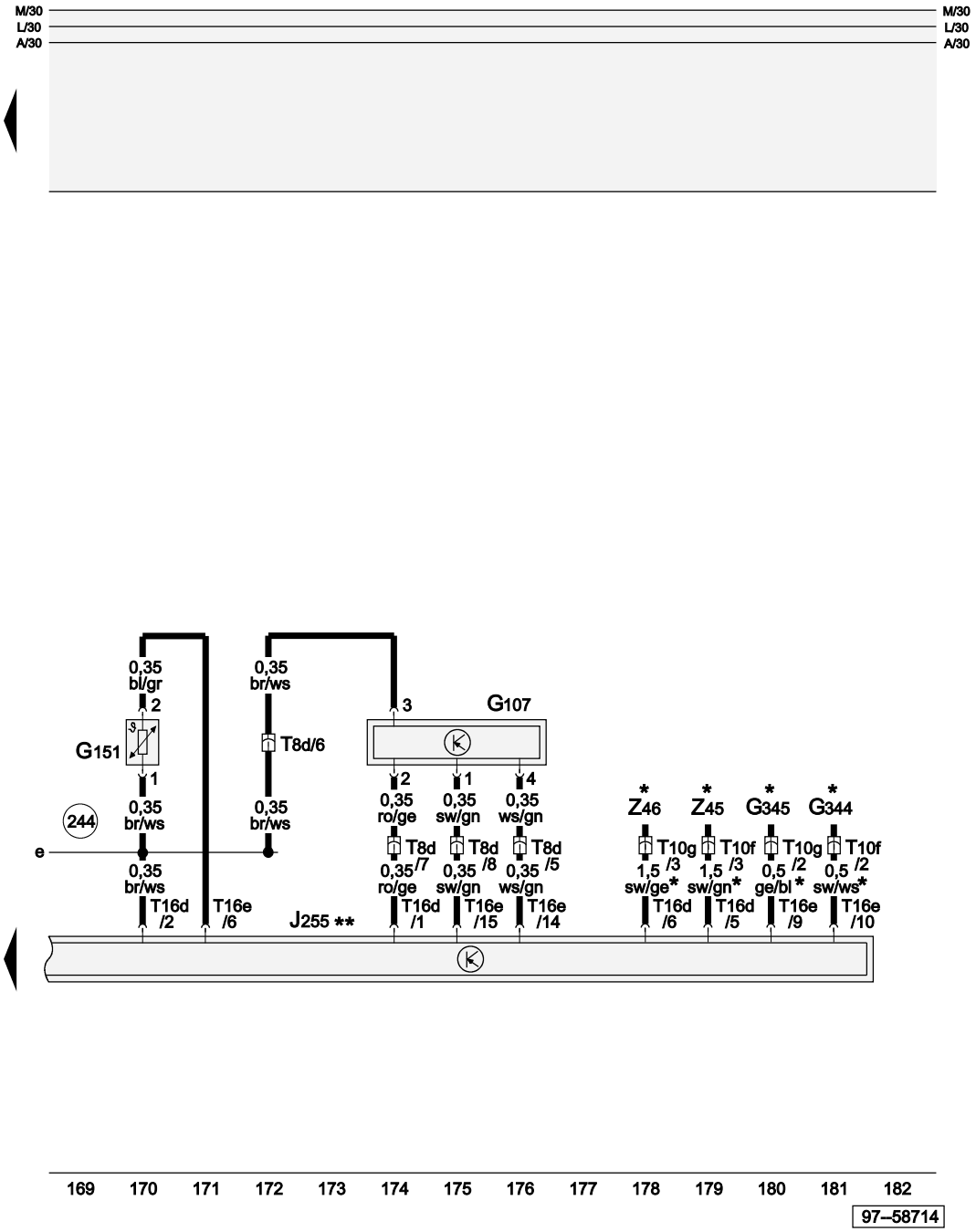


Vent temperature sender, fresh air intake duct temperature sensor

G89	Fresh air intake duct temperature sensor
G150	Left vent temperature sender
G261	Left footwell vent temperature sender
G262	Right footwell vent temperature sender
G263	Evaporator output temperature sender
J255	Climatronic control unit
T16e	16-pin connector, brown (connector C)
T20j	20-pin connector, red (connector B)
(97)	Earth connection 1, in air conditioning system wiring harness
(244)	Earth connection (sender earth), in Climatronic wiring harness
*	operating and display unit for air conditioning system/Climatronic

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Sunlight penetration photosensor, right vent temperature sender

G107	Sunlight penetration photosensor
G151	Right vent temperature sender
G344	Front left seat temperature sender
G345	Front right seat temperature sender
J255	Climatronic control unit
T8d	8-pin connector, black, behind centre console
T10f	10-pin connector, black/white, under driver seat
T10g	10-pin connector, black/white, under front passenger seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z45	Front left seat heating
Z46	Front right seat heating
244	Earth connection (sender earth), in Climatronic wiring harness
*	See applicable Current Flow Diagram: seat heating
**	operating and display unit for air conditioning system/Climatronic

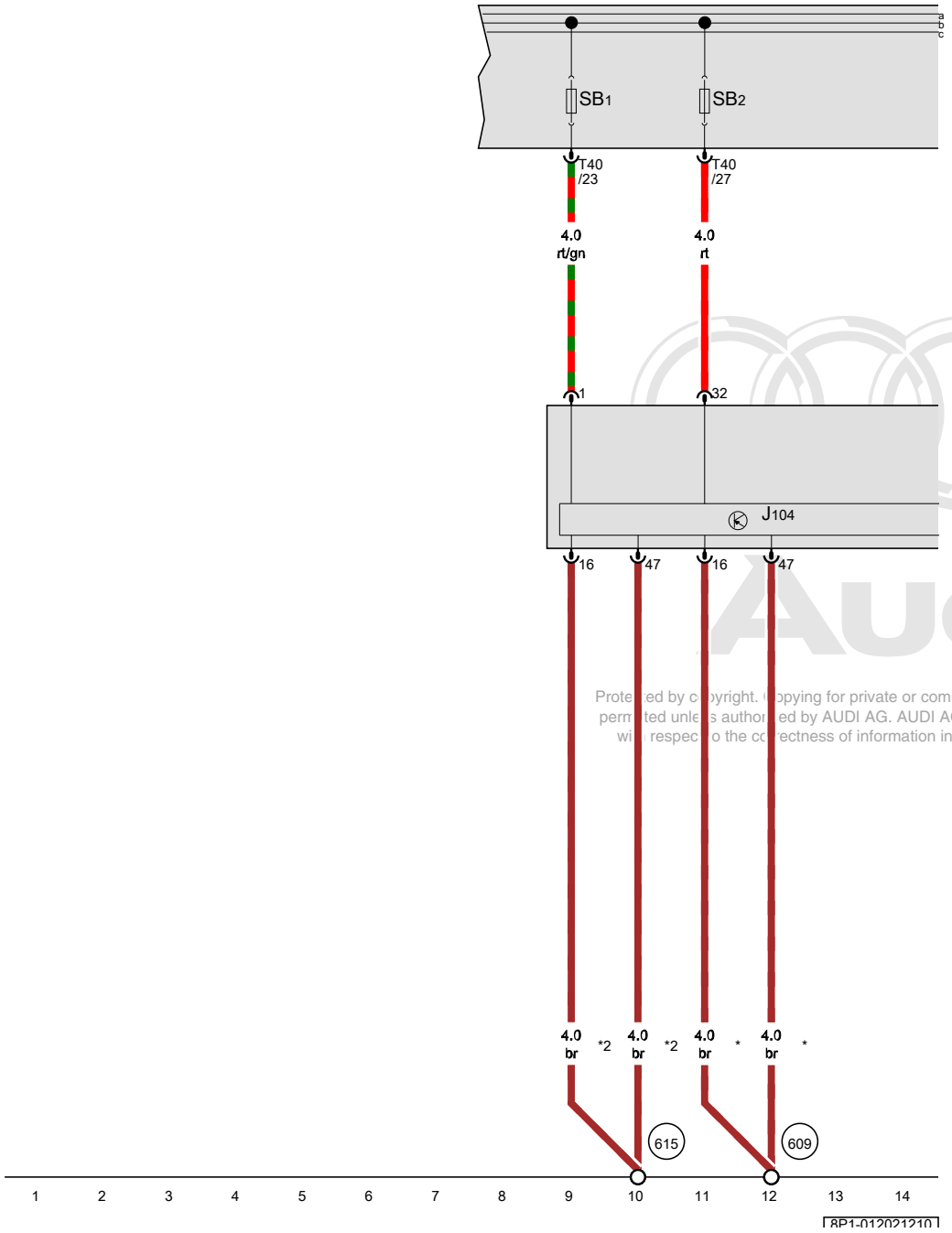
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Anti-lock brake system (ABS) with electronic stabilisation program (ESP), traction control system (TCS) and with no hydraulic brake servo (HBS)

From May 2003

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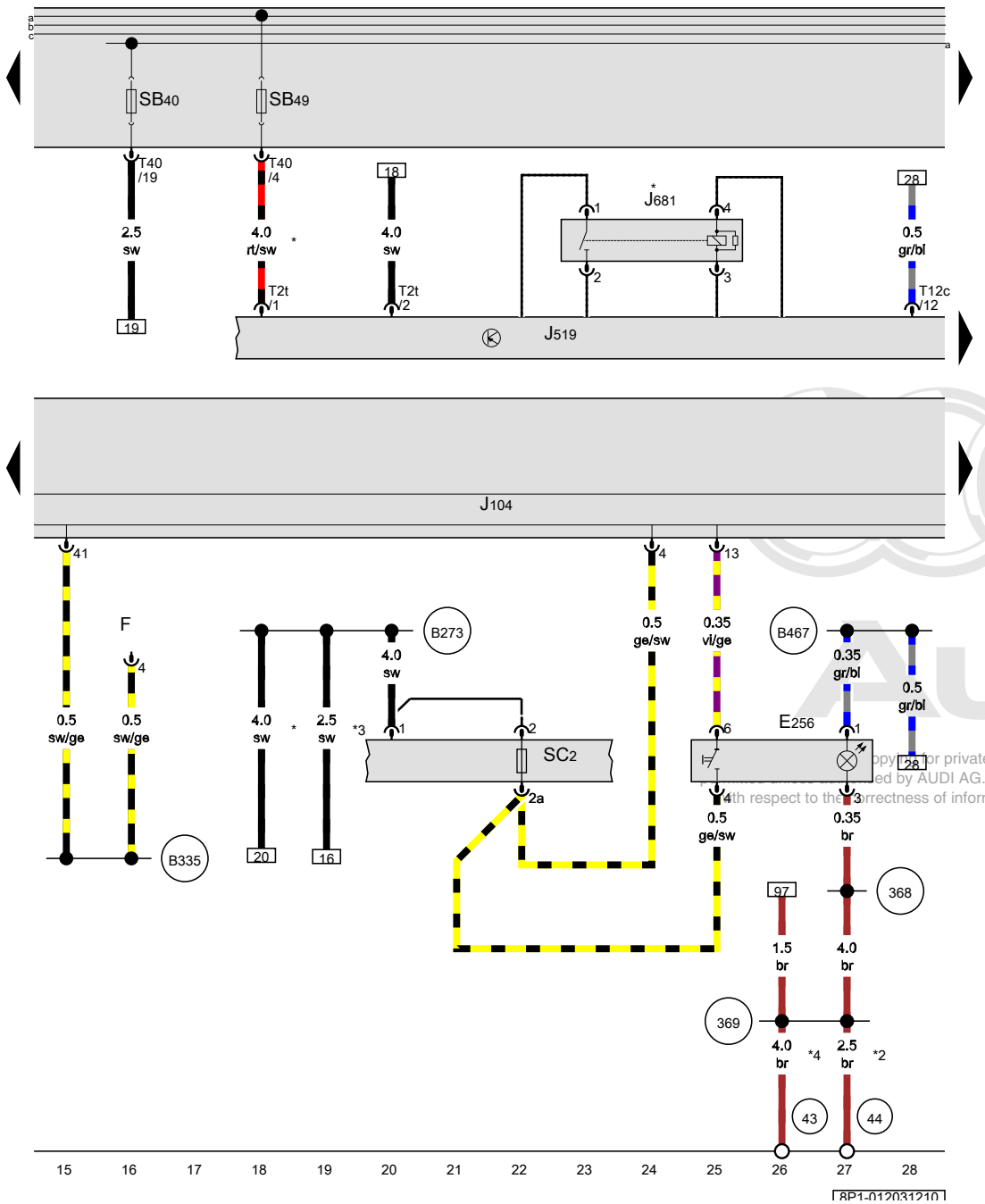


ABS control unit

J104	ABS control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
T40	40-pin connector
609	Earth point, on right in plenum chamber
615	Earth point, on left suspension strut
*	Only left-hand drive models
*2	Only right-hand drive models

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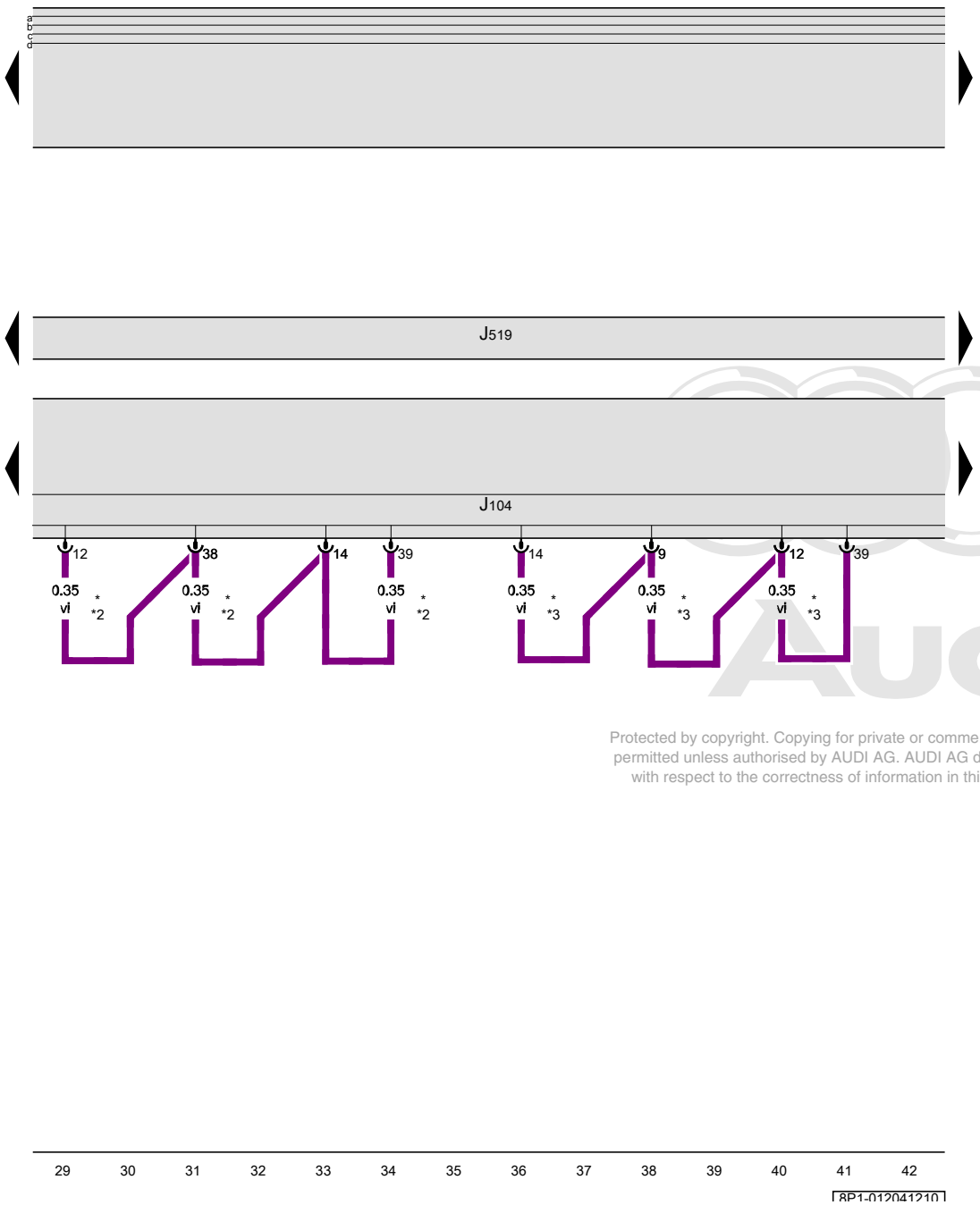
TCS and ESP button, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

E256	TCS and ESP button
F	Brake light switch
J104	ABS control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SC2	Fuse 2 on fuse holder C
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2t	2-pin connector
T12c	12-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
B273	Positive connection (15), in main wiring harness
B335	Connection 1 (54), in main wiring harness
B467	Connection 3, in main wiring harness

* Only models with battery in luggage compartment
*2 Only left-hand drive models
*3 Only models with battery in engine compartment
*4 Only right-hand drive models

ws	=	white
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ro	=	red
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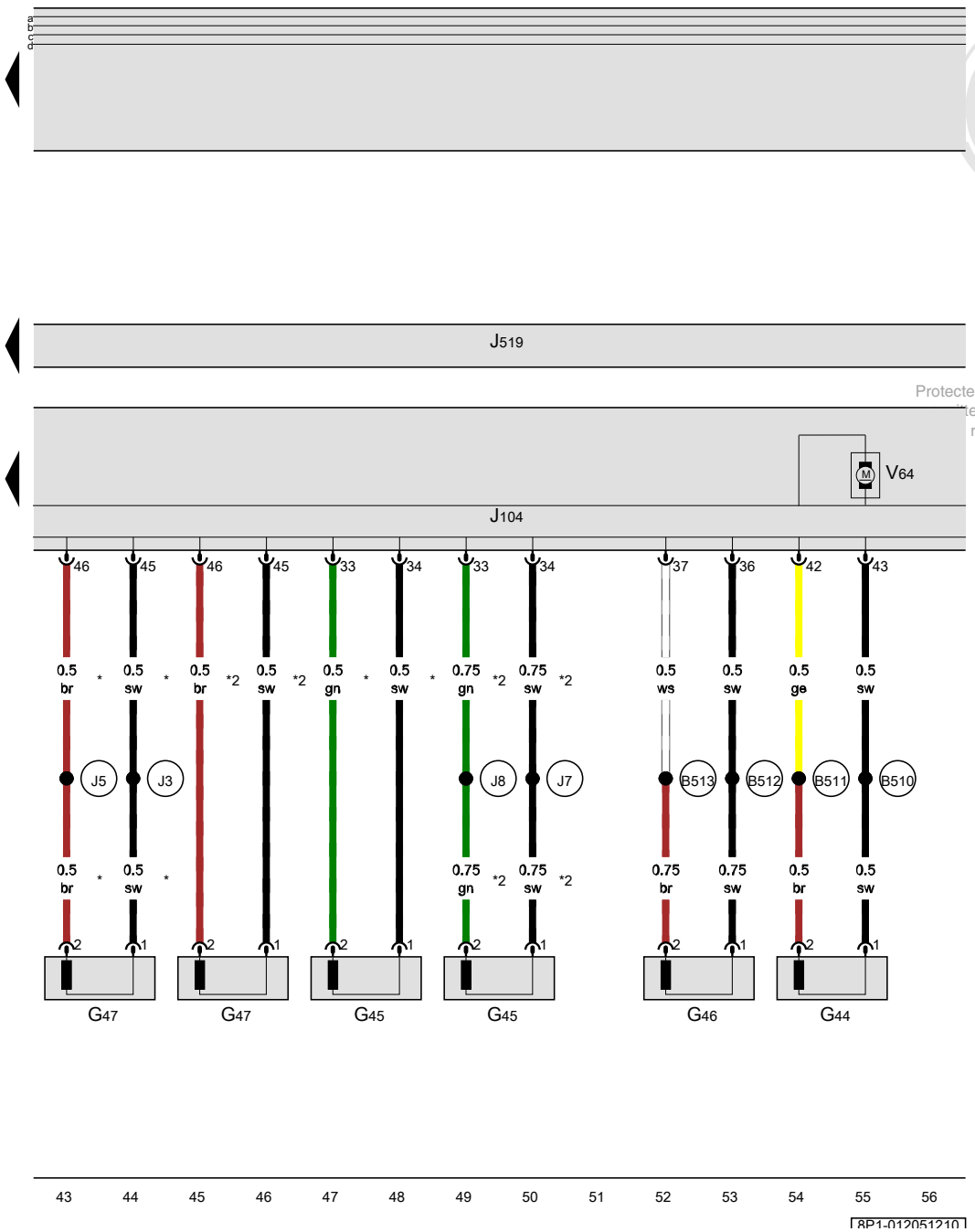


ABS control unit, Onboard supply control unit

J104	ABS control unit
J519	Onboard supply control unit
*	According to equipment
*2	gradual introduction
*3	Gradually discontinued

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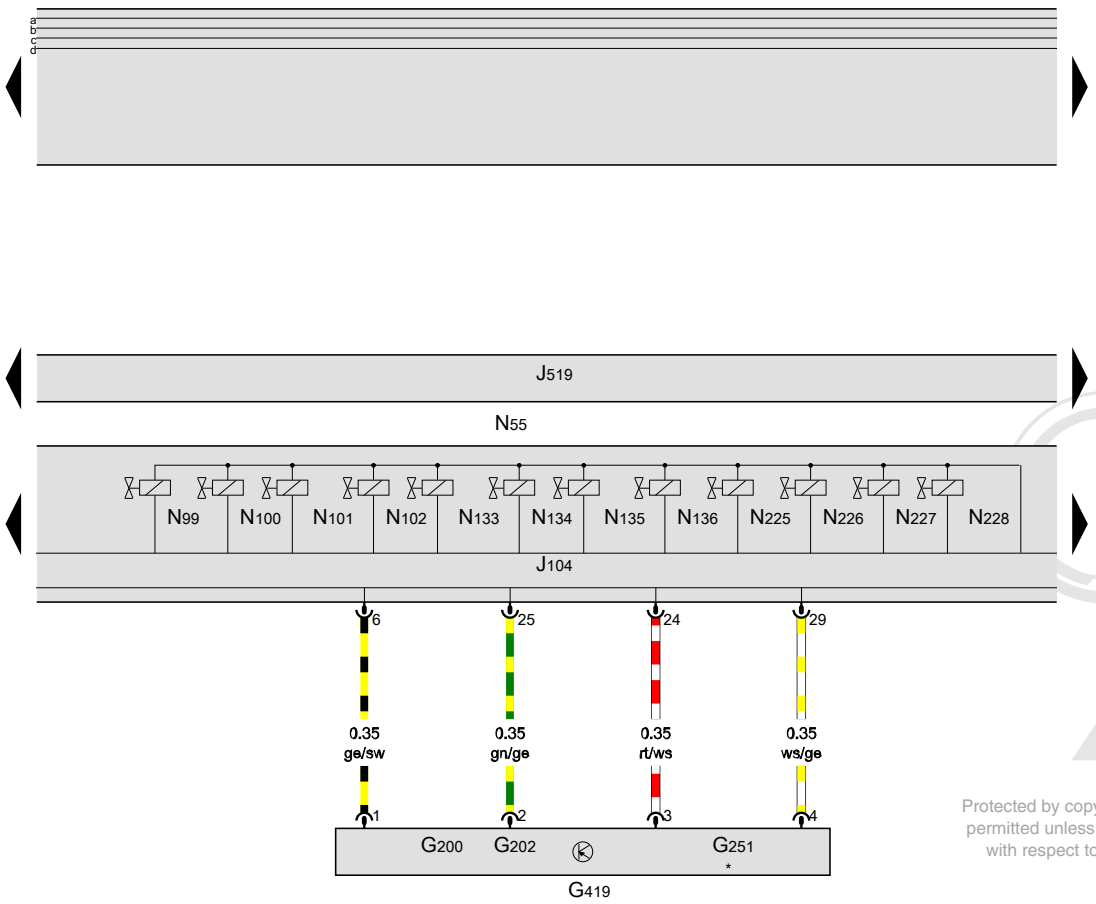


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Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit, Onboard supply control unit

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
J519	Onboard supply control unit
V64	ABS hydraulic pump
B510	Connection 1 (rear right speed sensor), in interior wiring harness
B511	Connection 2 (rear right speed sensor), in interior wiring harness
B512	Connection 1 (rear left speed sensor), in interior wiring harness
B513	Connection 2 (rear left speed sensor), in interior wiring harness
J3	Connection 1, in ABS wiring harness
J5	Connection 2, in ABS wiring harness
J7	Connection 3, in ABS wiring harness
J8	Connection 4, in ABS wiring harness
*	Only left-hand drive models
*2	Only right-hand drive models

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ESP sensor unit, ABS control unit, Onboard supply control unit, ABS hydraulic unit

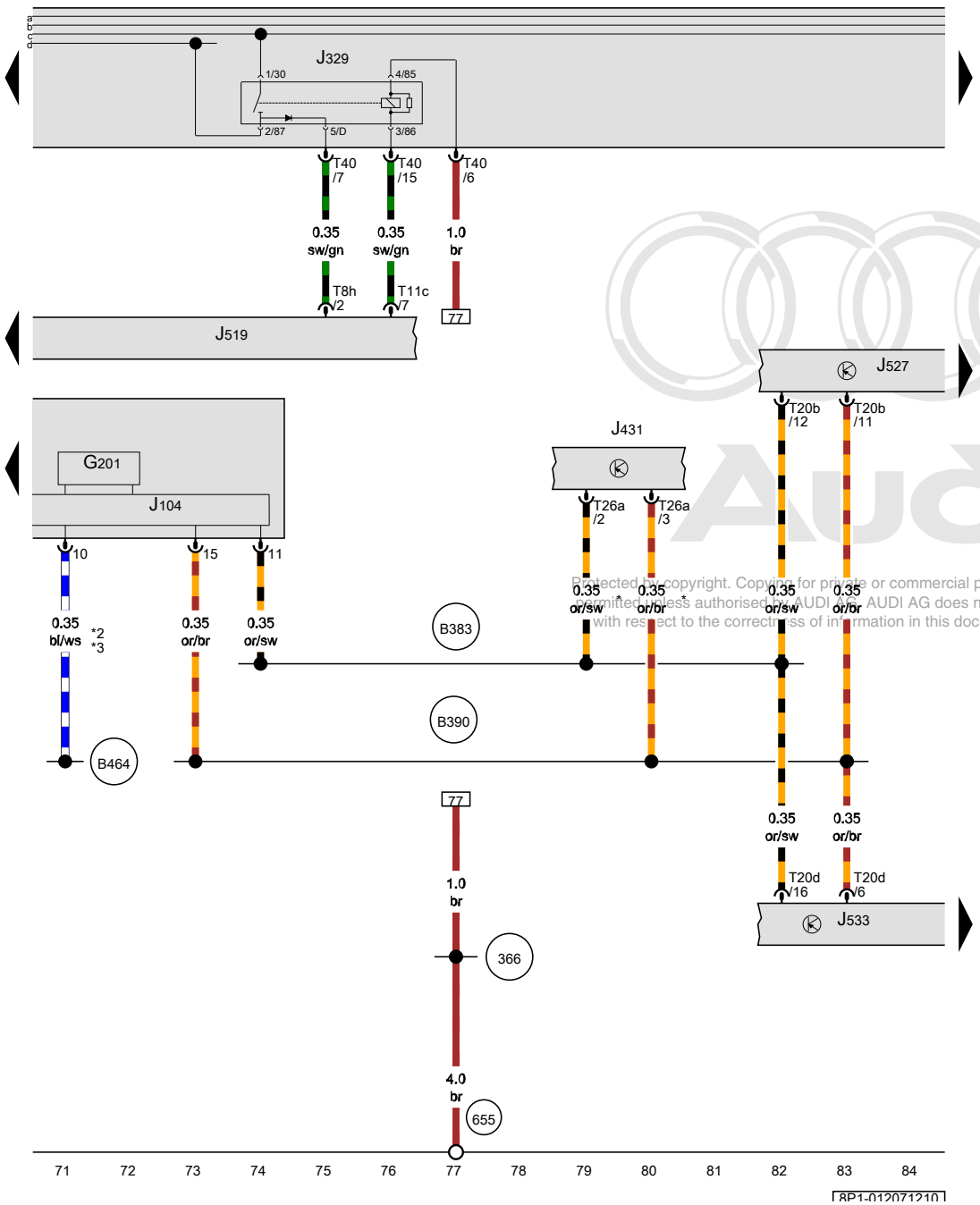
G200	Lateral acceleration sender
G202	Yaw rate sender
G251	Longitudinal acceleration sender
G419	ESP sensor unit
J104	ABS control unit
J519	Onboard supply control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N225	Vehicle stabilization program switch valve 1
N226	Vehicle stabilization program switch valve 2
N227	Vehicle stabilization program high-pressure valve 1
N228	Vehicle stabilization program high-pressure valve 2
*	Only models with all-wheel drive

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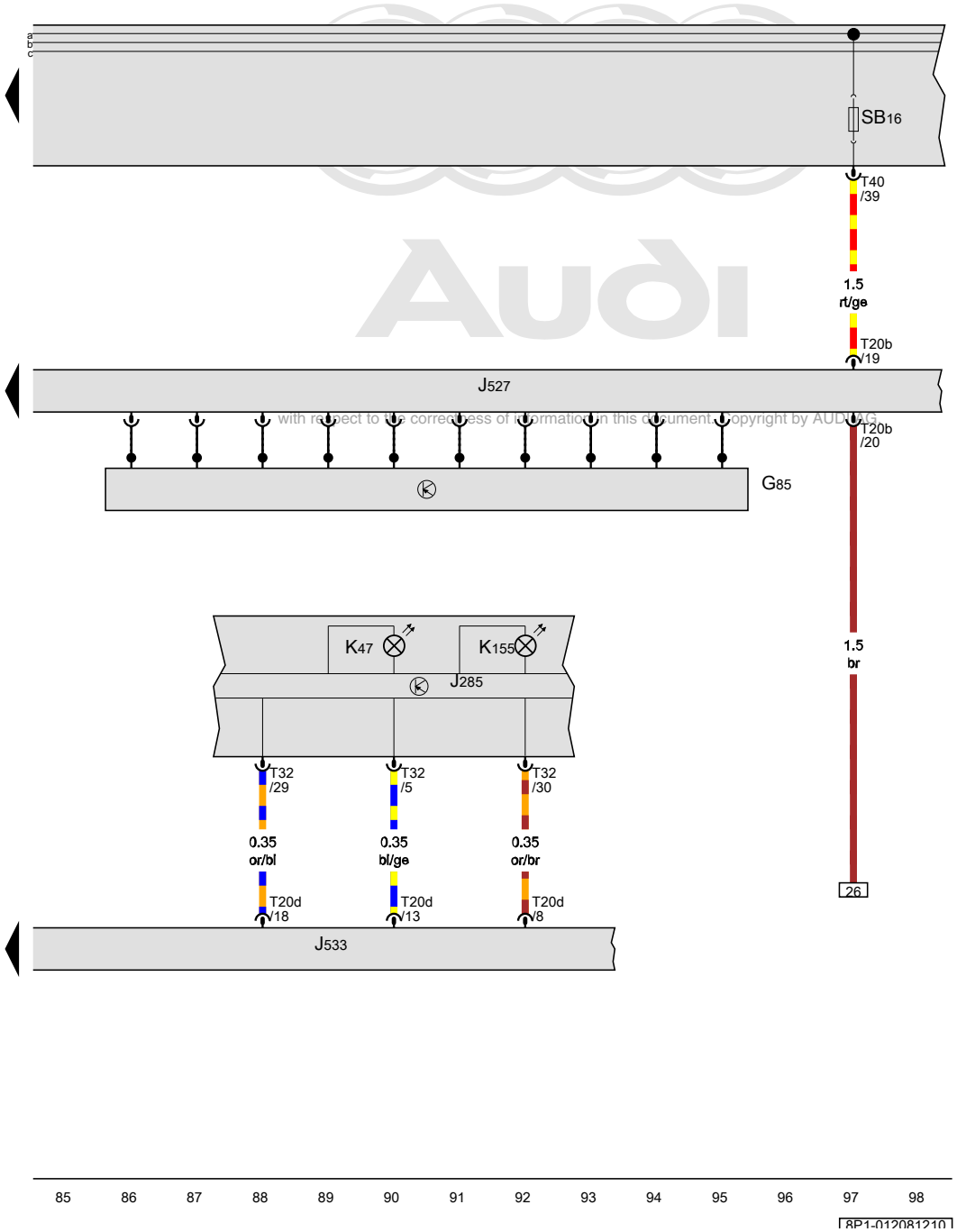


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Brake pressure sender 1, ABS control unit, Headlight range control unit, Onboard supply control unit, Steering column electronics control unit, Data bus diagnostic interface

G201	Brake pressure sender 1
J104	ABS control unit
J329	Terminal 15 voltage supply relay
J431	Headlight range control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T8h	8-pin connector
T11c	11-pin connector
T20b	20-pin connector
T20d	20-pin connector
T26a	26-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	According to equipment
*2	Only models with navigation system
*3	see applicable current flow diagram

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Steering angle sender, Control unit in dash panel insert, Steering column electronics control unit, Data bus diagnostic interface, ABS warning lamp, ESP and TCS warning lamp

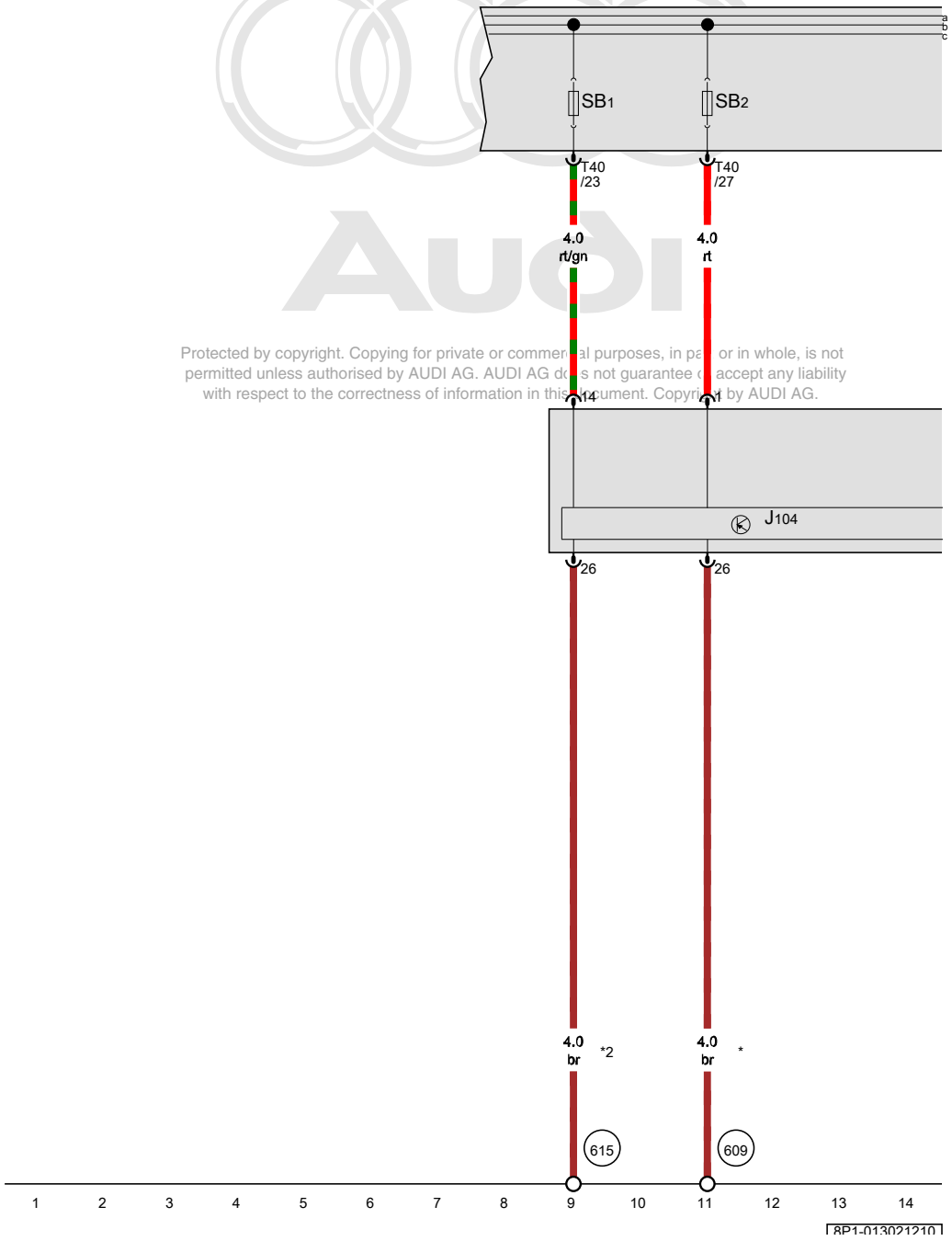
G85	Steering angle sender
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K47	ABS warning lamp
K155	ESP and TCS warning lamp
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector

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Anti-lock brake system (ABS) with traction control system (TCS)

From May 2003

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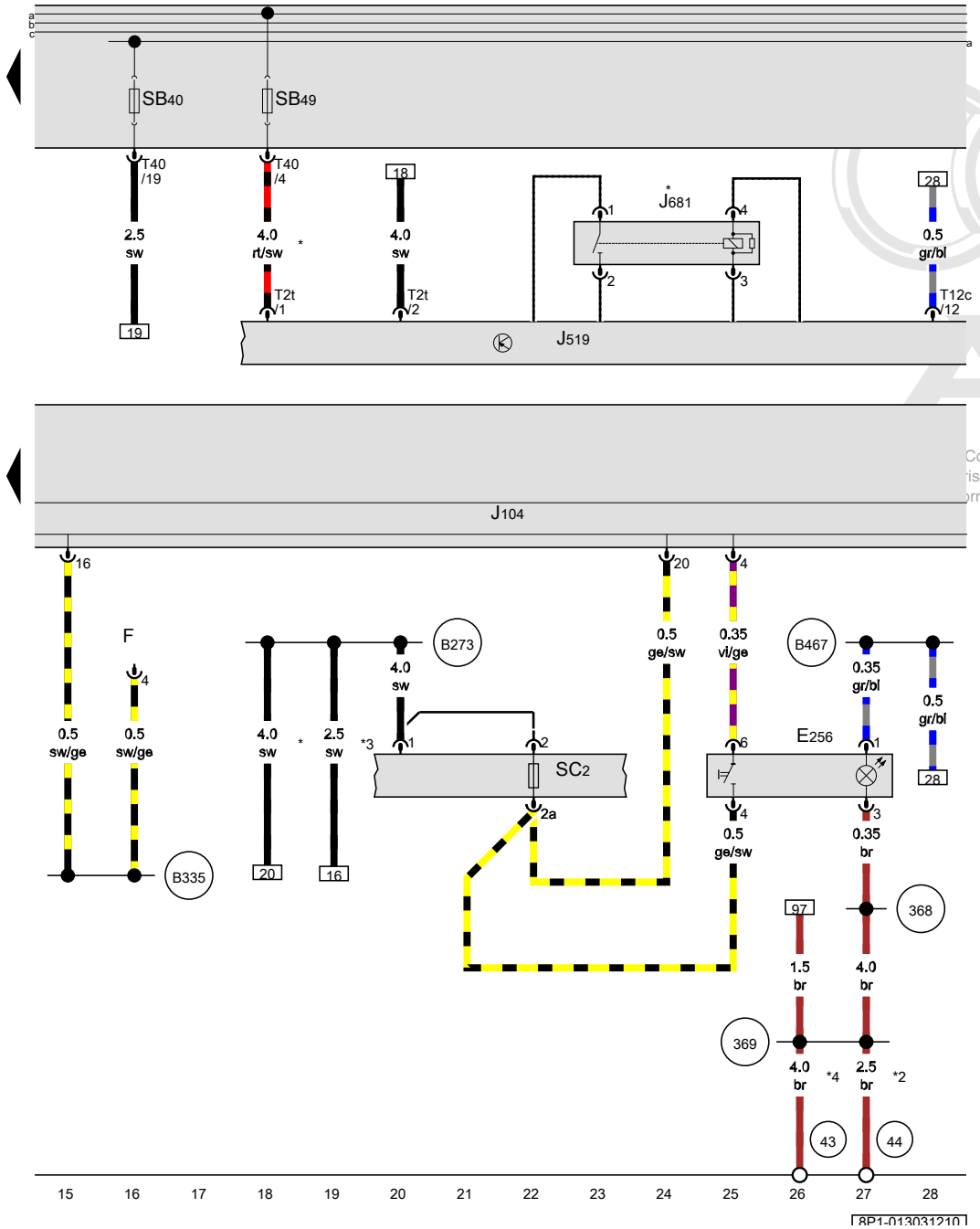


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ABS control unit

J104	ABS control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
T40	40-pin connector
609	Earth point, on right in plenum chamber
615	Earth point, on left suspension strut
*	Only left-hand drive models
*2	Only right-hand drive models

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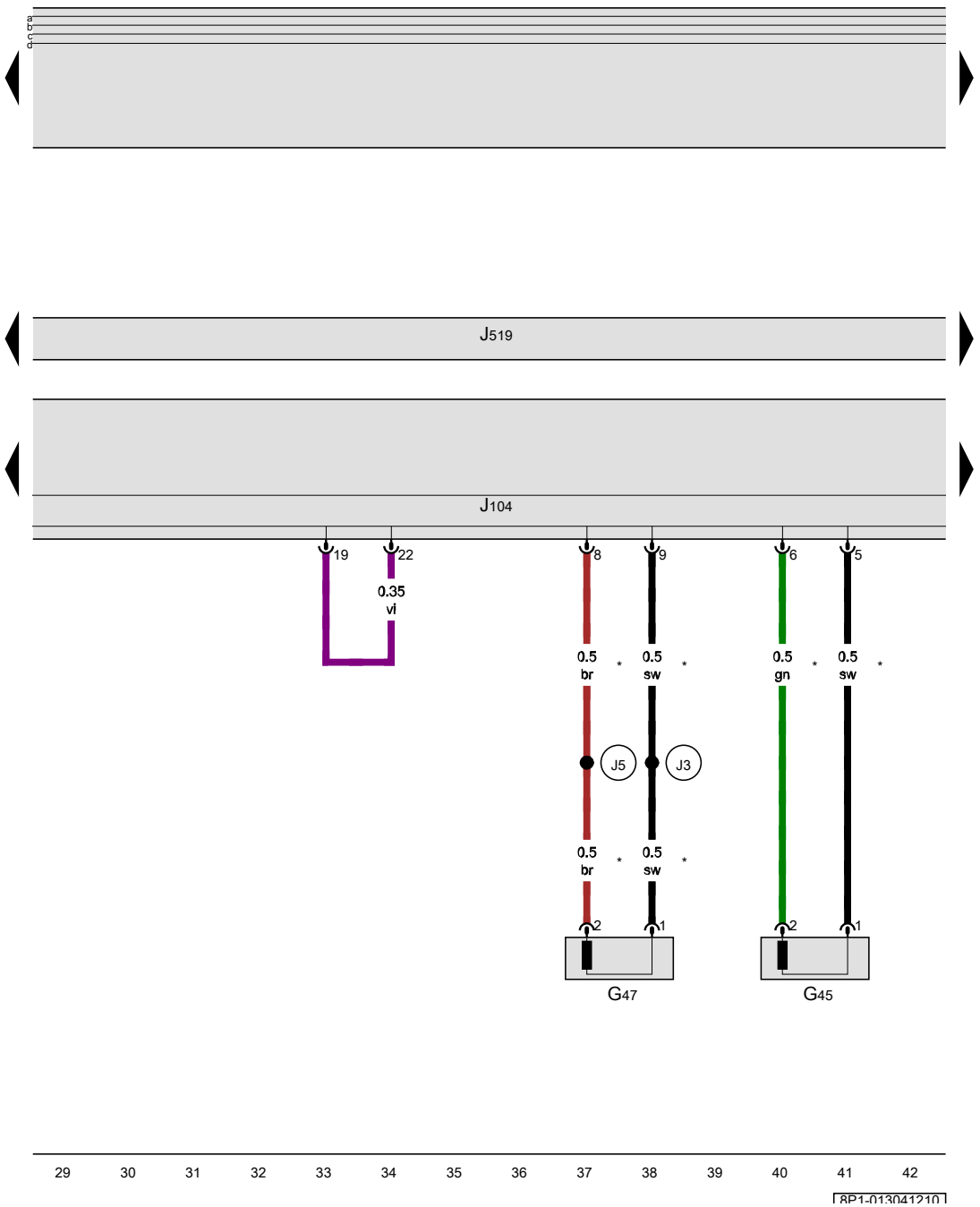


TCS and ESP button, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

E256	TCS and ESP button
F	Brake light switch
J104	ABS control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SC2	Fuse 2 on fuse holder C
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2t	2-pin connector
T12c	12-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
B273	Positive connection (15), in main wiring harness
B335	Connection 1 (54), in main wiring harness
B467	Connection 3, in main wiring harness
*	Only models with battery in luggage compartment
*2	Only left-hand drive models
*3	Only models with battery in engine compartment
*4	Only right-hand drive models

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li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

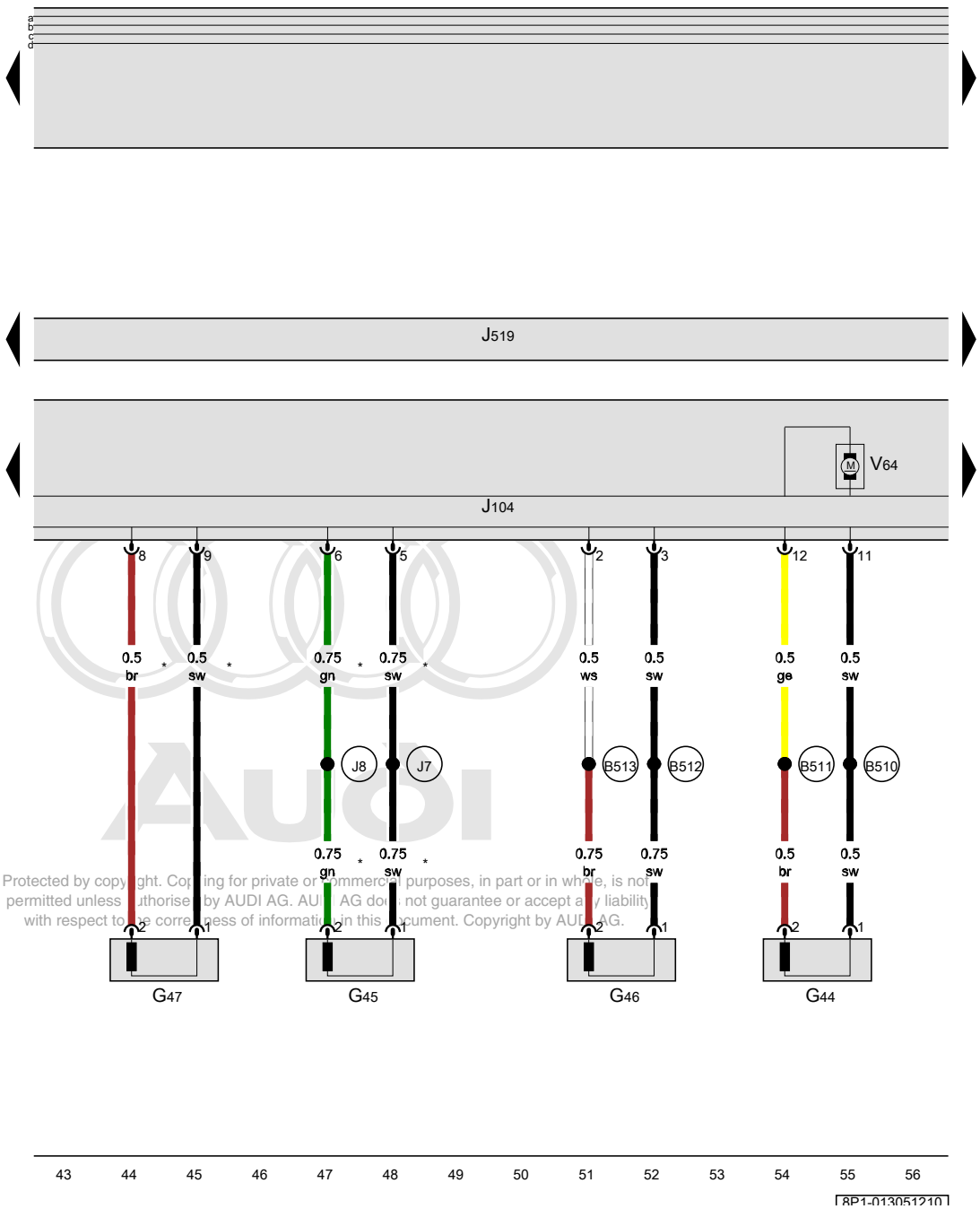


Front right speed sensor, Front left speed sensor, ABS control unit, Onboard supply control unit

G45	Front right speed sensor
G47	Front left speed sensor
J104	ABS control unit
J519	Onboard supply control unit
J3	Connection 1, in ABS wiring harness
J5	Connection 2, in ABS wiring harness
*	Only left-hand drive models

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ro	=	red
br	=	brown
gn	=	green
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or	=	orange
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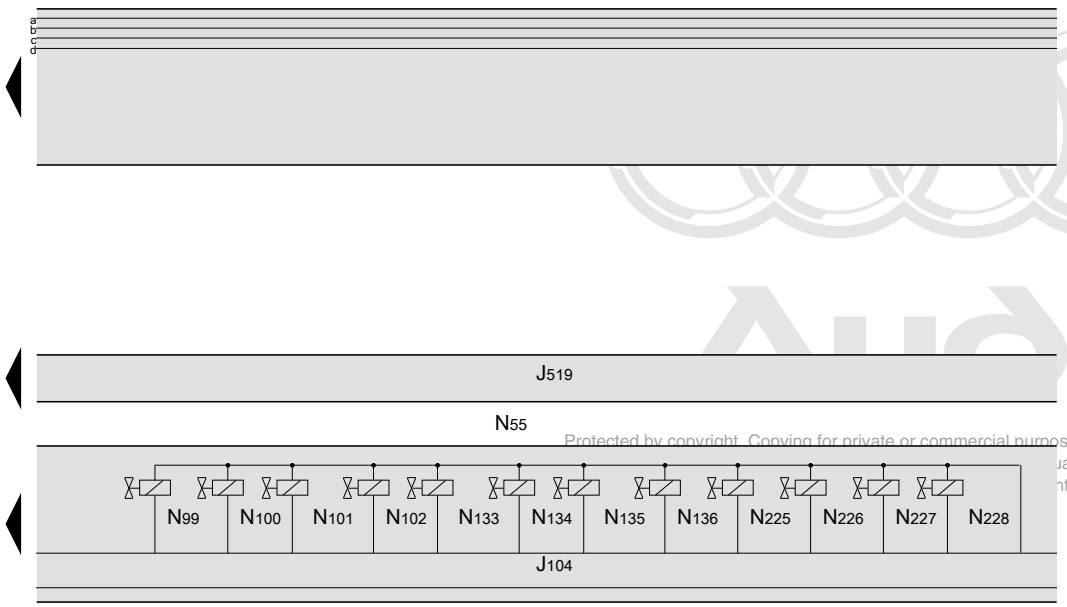


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Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit, Onboard supply control unit

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
J519	Onboard supply control unit
V64	ABS hydraulic pump
B510	Connection 1 (rear right speed sensor), in interior wiring harness
B511	Connection 2 (rear right speed sensor), in interior wiring harness
B512	Connection 1 (rear left speed sensor), in interior wiring harness
B513	Connection 2 (rear left speed sensor), in interior wiring harness
J7	Connection 3, in ABS wiring harness
J8	Connection 4, in ABS wiring harness
*	Only right-hand drive models

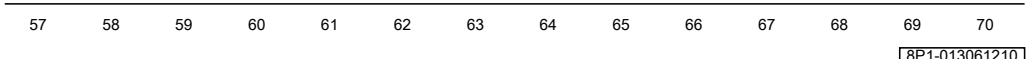
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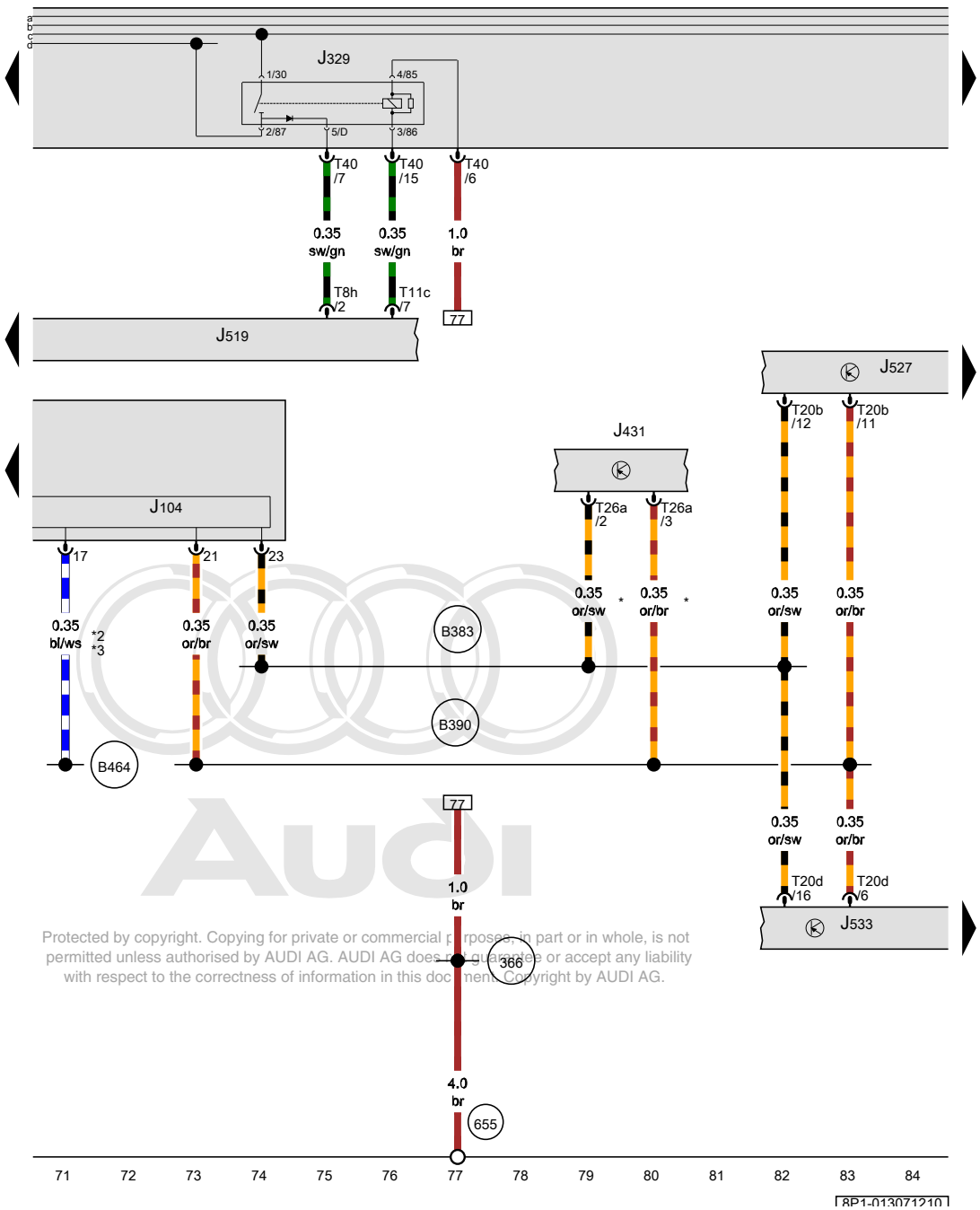
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ABS control unit, Onboard supply control unit, ABS hydraulic unit

J104	ABS control unit
J519	Onboard supply control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N225	Vehicle stabilization program switch valve 1
N226	Vehicle stabilization program switch valve 2
N227	Vehicle stabilization program high-pressure valve 1
N228	Vehicle stabilization program high-pressure valve 2



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

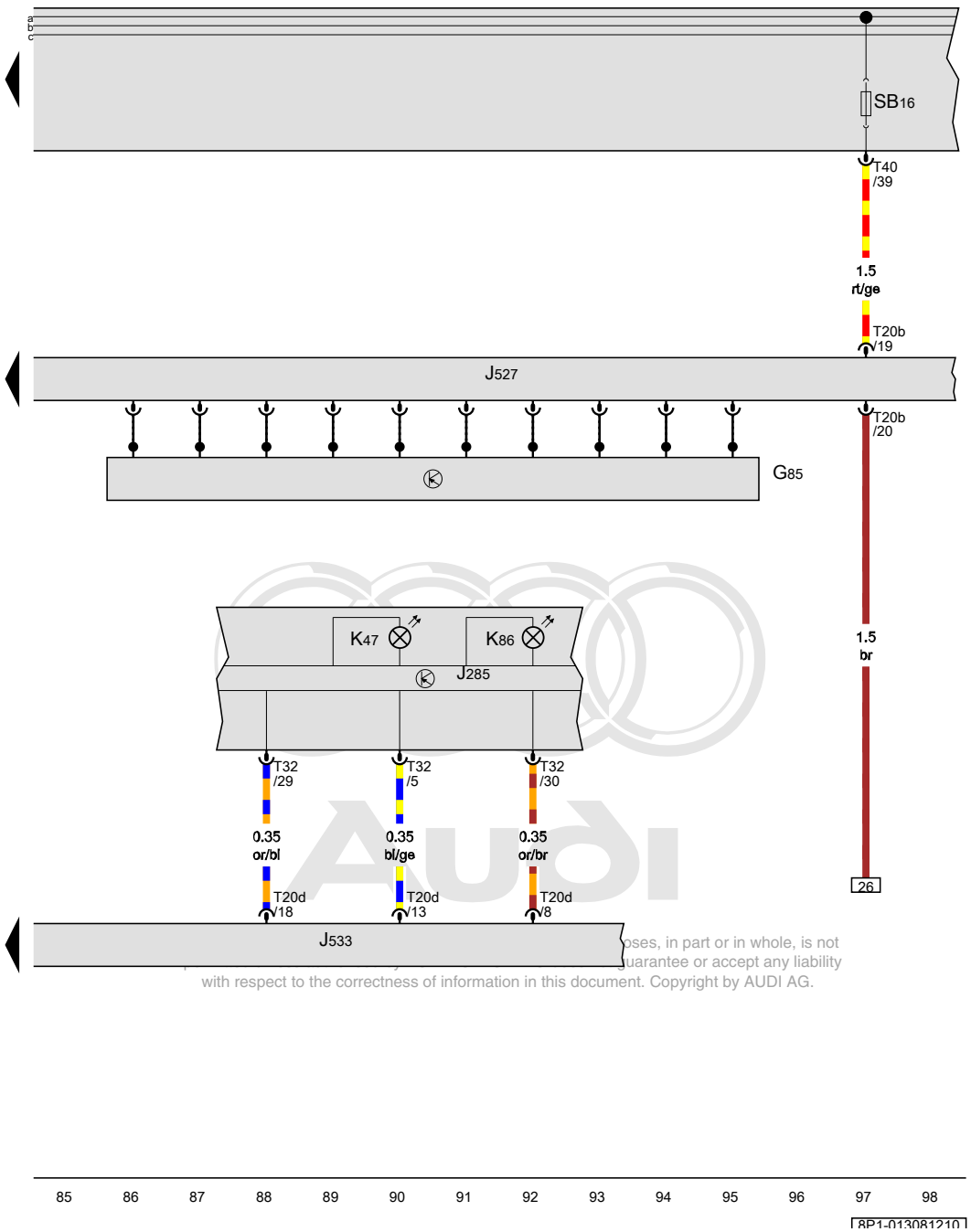


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ABS control unit, Headlight range control unit, Onboard supply control unit, Steering column electronics control unit, Data bus diagnostic interface

J104	ABS control unit
J329	Terminal 15 voltage supply relay
J431	Headlight range control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T8h	8-pin connector
T11c	11-pin connector
T20b	20-pin connector
T20d	20-pin connector
T26a	26-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	According to equipment
*2	Only models with navigation system
*3	see applicable current flow diagram

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



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Steering angle sender, Control unit in dash panel insert, Steering column electronics control unit, Data bus diagnostic interface, ABS warning lamp, Traction control system warning lamp

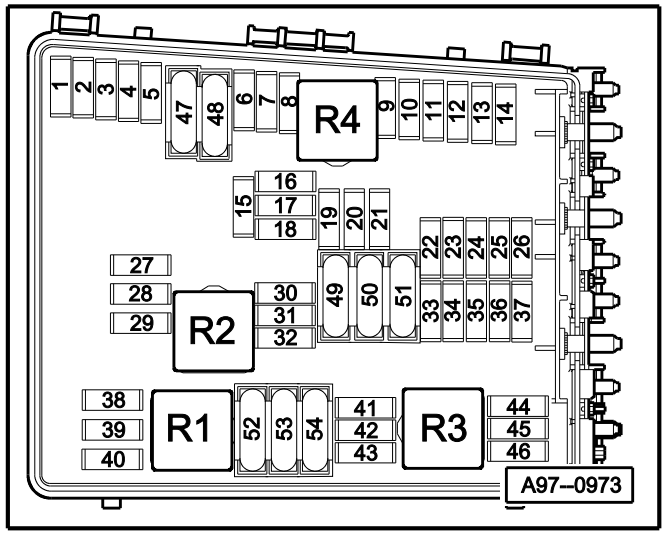
G85	Steering angle sender
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K47	ABS warning lamp
K86	Traction control system warning lamp
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector

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Navigation system "NS LOW"

From model year 2004

Relay and fuse carrier, electronics box



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- In engine compartment, front left

Fuse colours

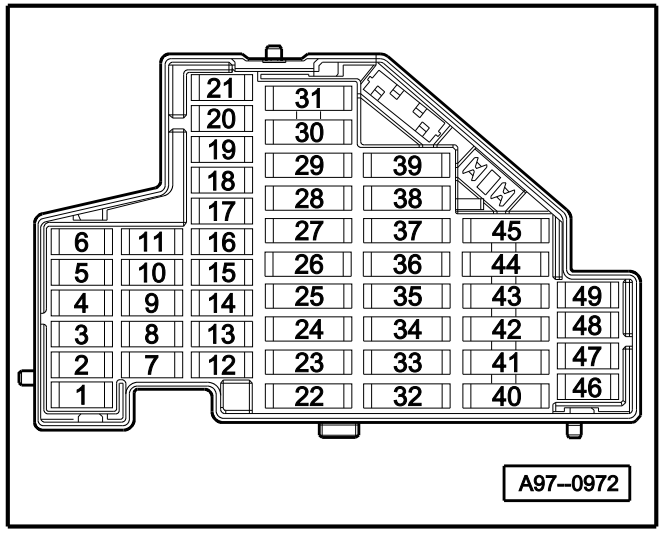
50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

Fuse box



- Dash panel, driver's side

Fuse colours

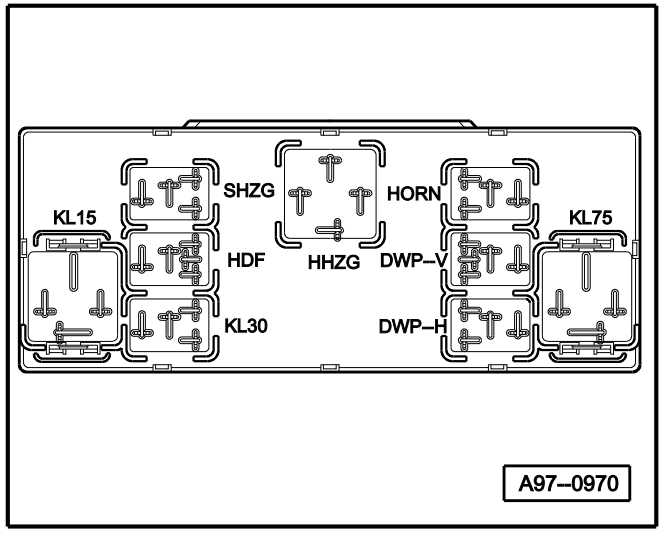
40 A - orange
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

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Onboard power supply control unit - J519

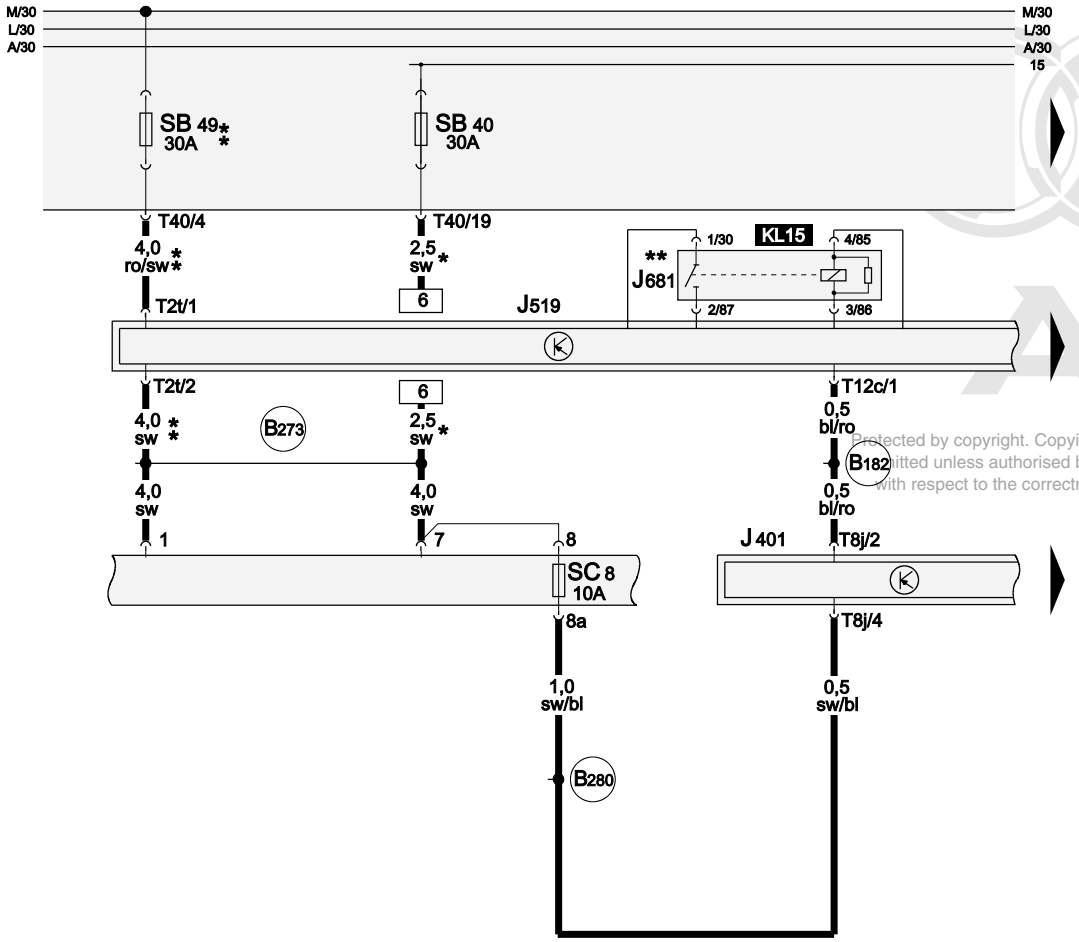


♦ Dash panel, driver's side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay -2- - J681

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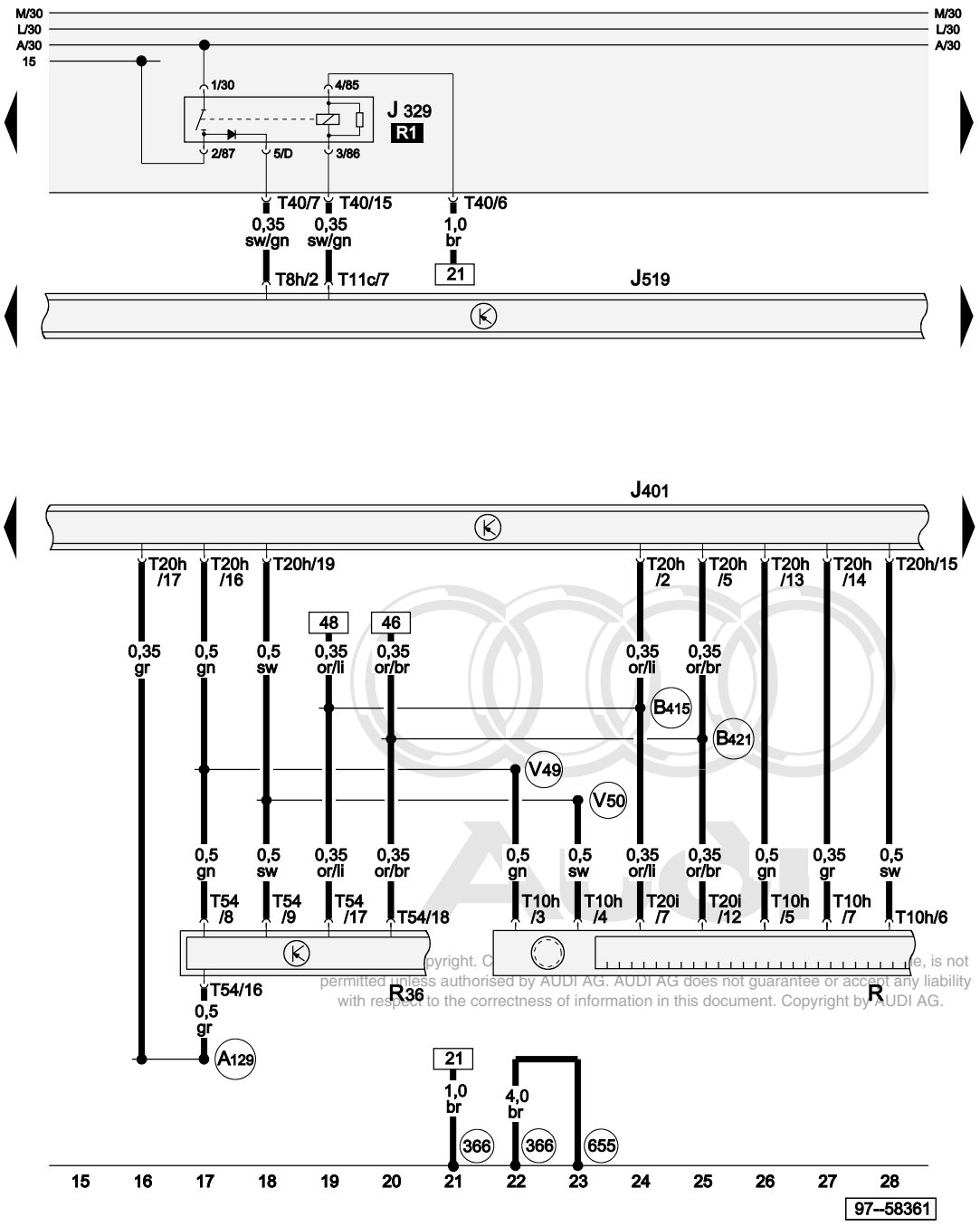


Muting, infotainment CAN bus

J401	Navigation system with CD drive control unit
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse -40- on fuse box
SB49	Fuse -49- on fuse box
SC8	Fuse -8- on fuse box
T2t	2-pin connector, black (connector L)
T8j	8-pin connector, black
T12c	12-pin connector, black (connector B)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
B182	Connection (RF (reversing light)), in interior wiring harness
B273	Positive (+) connection (15), in main wiring harness
B280	Positive (+) connection -4- (15a), in main wiring harness
*	Only applies to models with battery in engine compartment
**	Only applies to models with battery in luggage compartment

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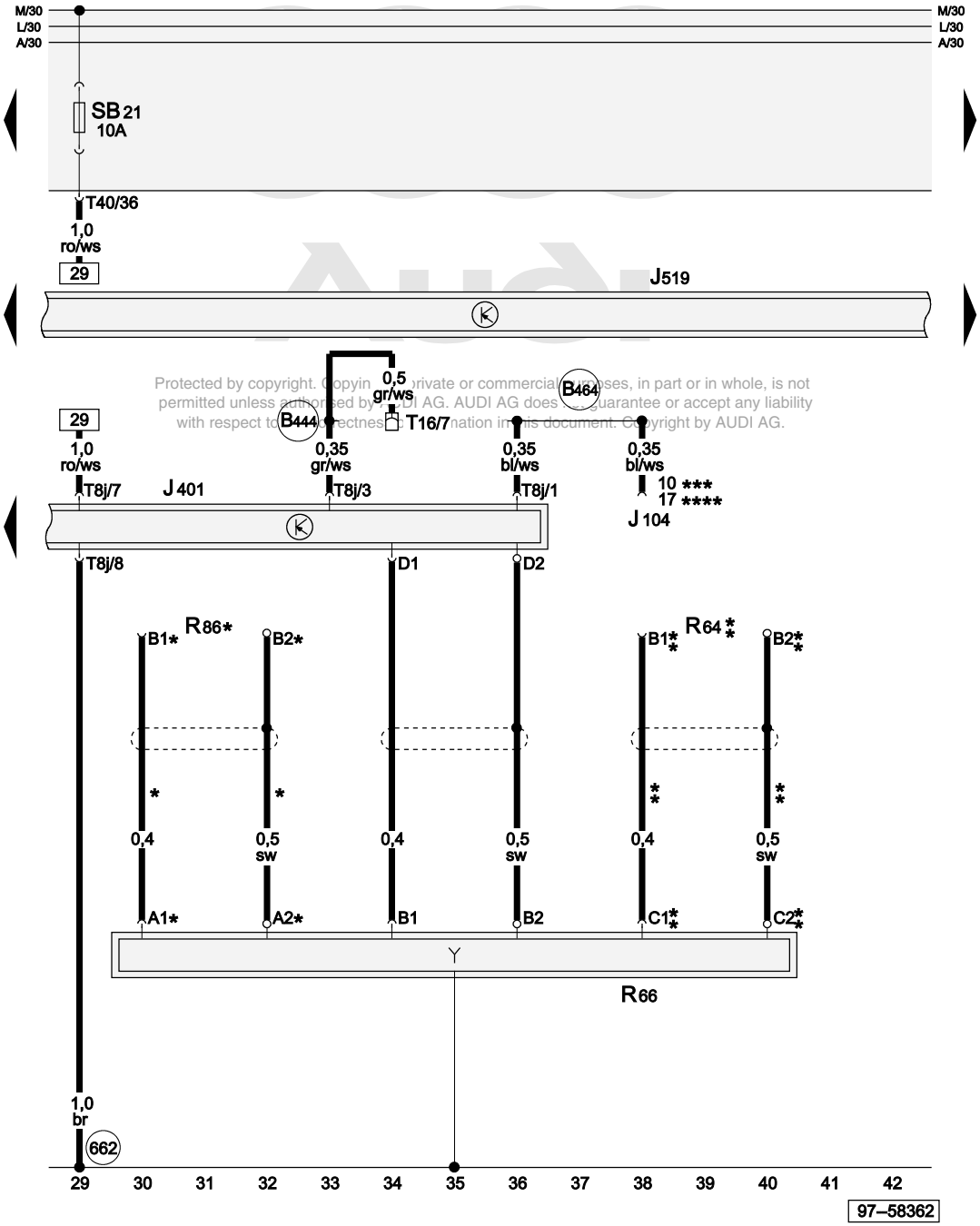


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or = orange
rs = pink

Telephone/navigation (GPS)/auxiliary heater aerial

J329	Terminal 15 voltage supply relay
J401	Navigation system with CD drive control unit
J519	Onboard power supply control unit
R	Radio
R36	Telephone transmitter and receiver unit
T8h	8-pin connector, black (connector F)
T10h	10-pin connector, red
T11c	11-pin connector, brown (connector D)
T20h	20-pin connector, black
T20i	20-pin connector, black
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
T54	54-pin connector, black
366	Earth connection -1-, in main wiring harness
655	Earth point, on left headlight
A129	Connection (muting), in dash panel wiring harness
B415	Connection -1- (infotainment CAN bus, high), in main wiring harness
B421	Connection -1- (infotainment CAN bus, low), in main wiring harness
V49	Connection (low frequency, NF +), in communication wiring harness
V50	Connection (low frequency, NF -), in communication wiring harness

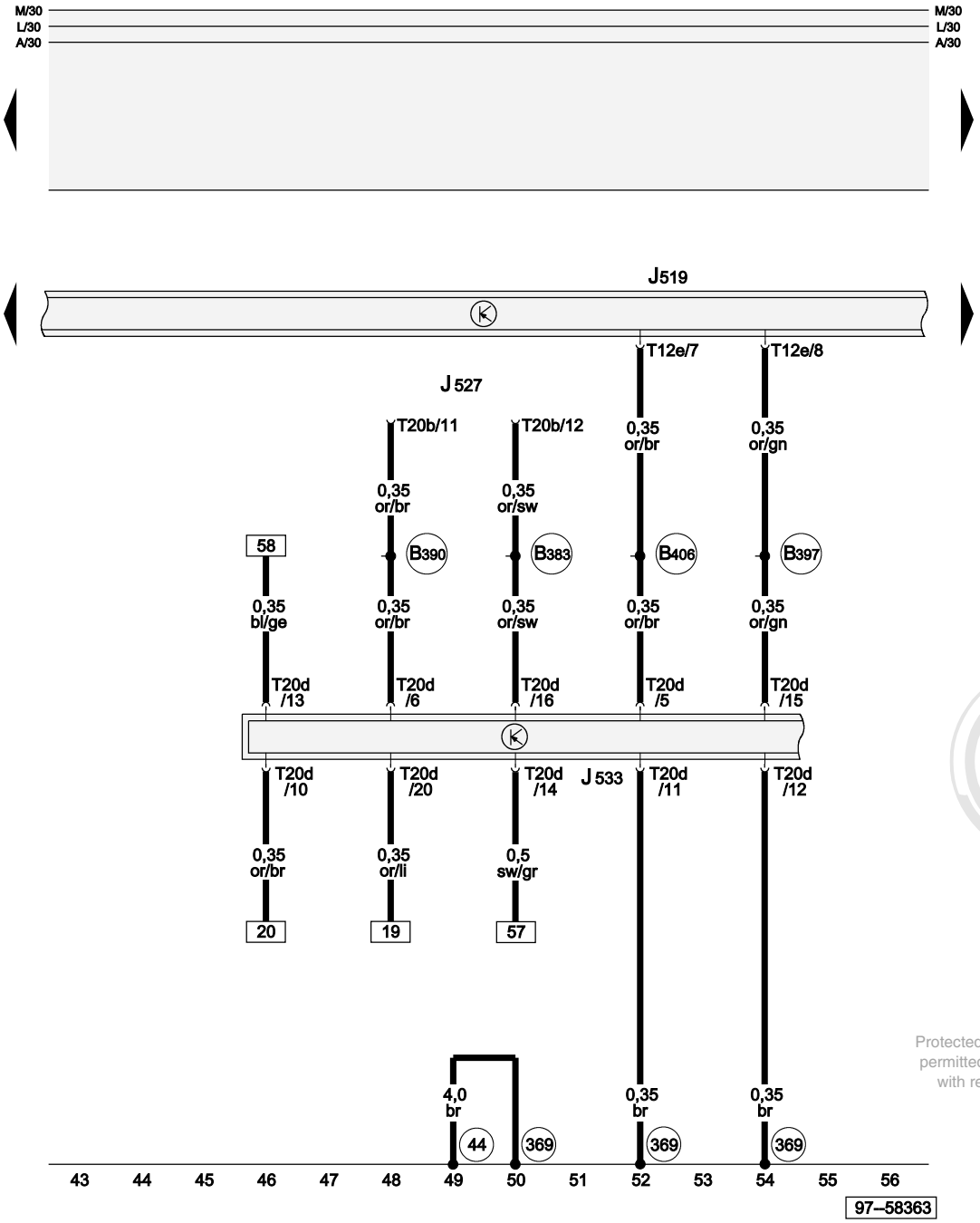


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or = orange
rs = pink

Data bus diagnostic interface

J104	ABS with EDL control unit
J401	Navigation system with CD drive control unit
J519	Onboard power supply control unit
R64	Auxiliary heating radio controlled receiver
R66	Telephone/navigation (GPS)/auxiliary heater aerial
R86	Aerial amplifier, mobile telephone
SB21	Fuse -21- on fuse box
T8j	8-pin connector, black
T16	16-pin connector, black, dash panel, driver's side, bottom left (diagnostic connector)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
662	Earth point, rear left side panel
B444	Connection -1- (diagnosis), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	Only applies to models with mobile telephone/provision for mobile telephone
**	Only applies to models with auxiliary heater
***	Only applies to models with anti-lock brake system (ABS) MK60
****	Only applies to models with anti-lock brake system (ABS) MK70

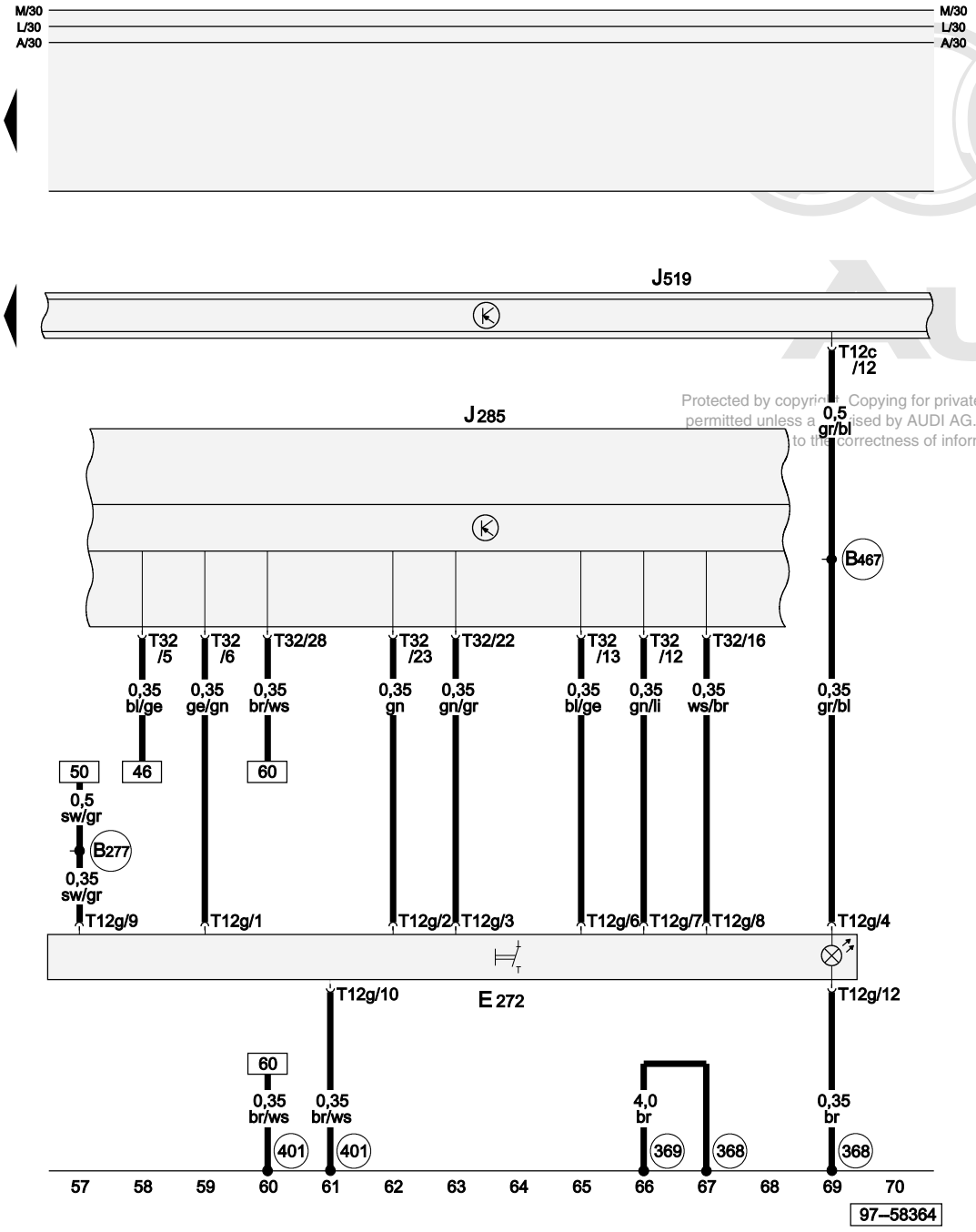


Function selection switch II, control unit with display in dash panel insert

J519	Onboard power supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
44	Earth point, lower part of left A pillar
369	Earth connection -4-, in main wiring harness
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness
B397	Connection -1- (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness

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Function selection switch II, control unit with display in dash panel insert

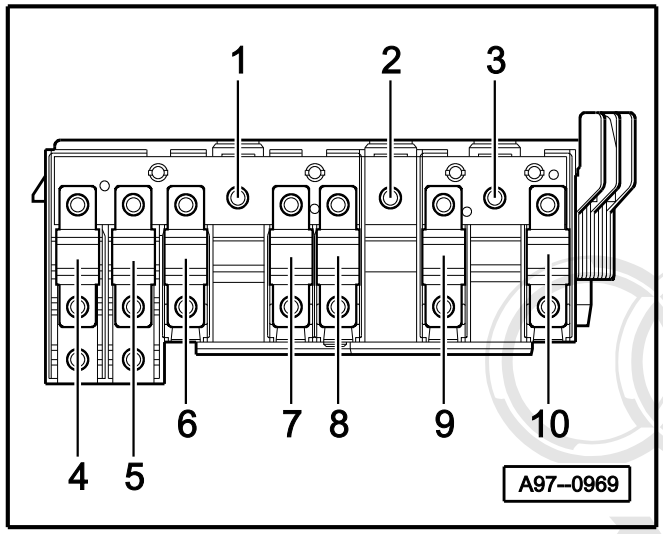
E272	Function selection switch II
J285	Control unit with display in dash panel insert
J519	Onboard power supply control unit
T12c	12-pin connector, black (connector B)
T12g	12-pin connector, brown
T32	32-pin connector, blue (connector A)
368	Earth connection -3-, in main wiring harness
369	Earth connection -4-, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B277	Positive (+) connection -1- (15a), in main wiring harness
B467	Connection -3-, in main wiring harness

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Trailer operation

From model year 2004

Main fuse box, electronics box



♦ At electronics box, in engine compartment, front left

Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

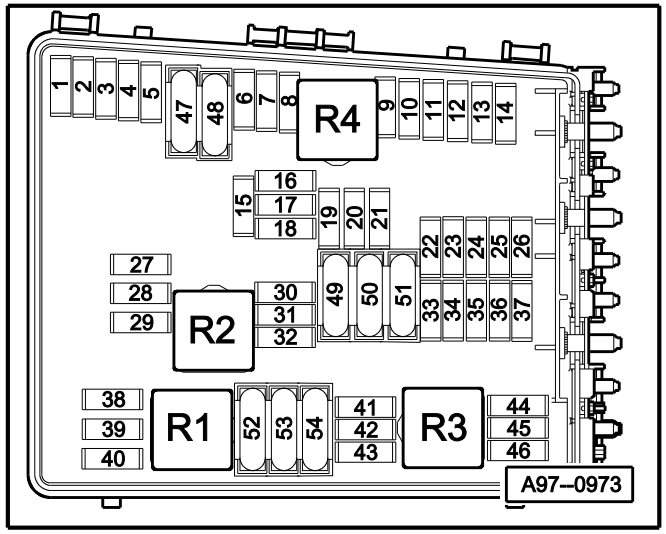
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Position of fuses
7 - Fuse -4- on fuse box/battery (SA4)
9 - Fuse -6- on fuse box/battery (SA6)

Note:

♦ *Fuses in main fuse box are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

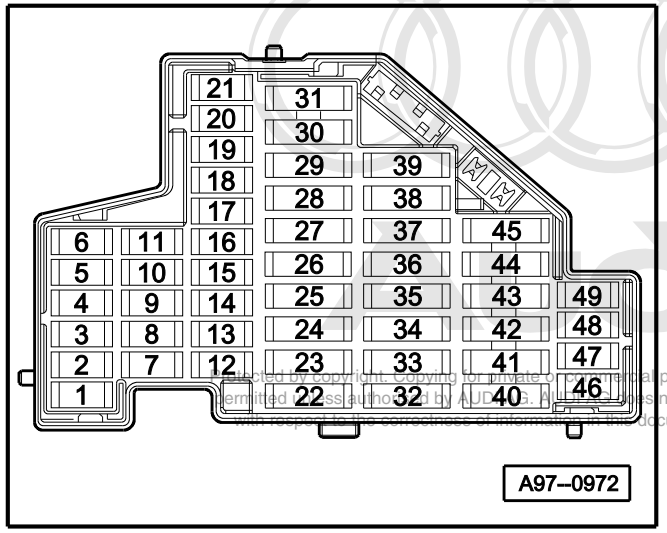
Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

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Fuse box



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- Dash panel, driver's side

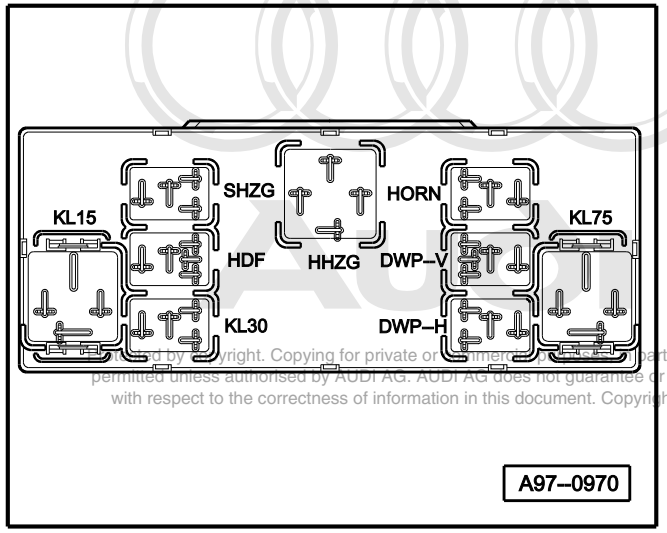
Fuse colours

40 A - orange
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

Onboard power supply control unit - J519

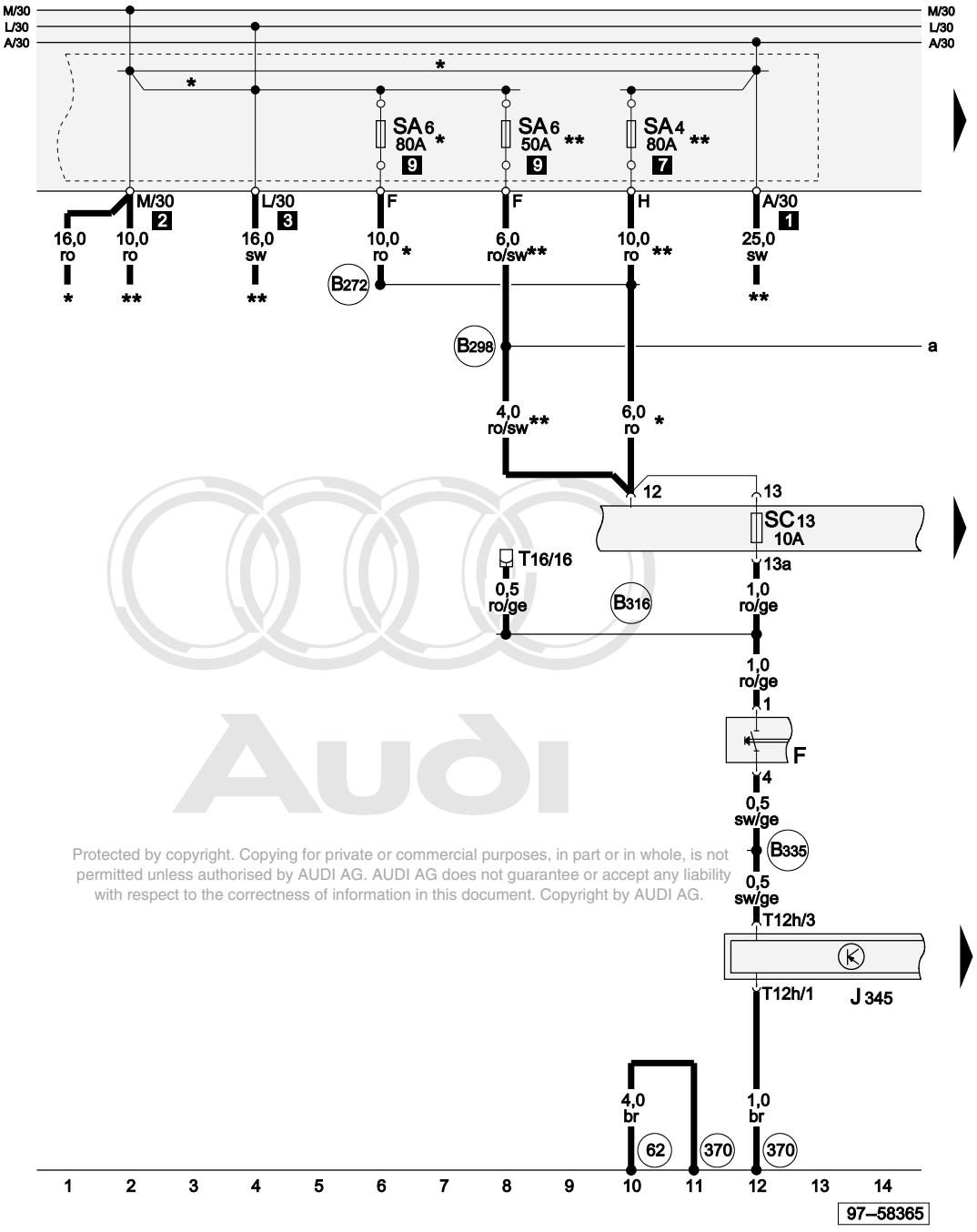


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♦ Dash panel, driver's side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay -2- - J681

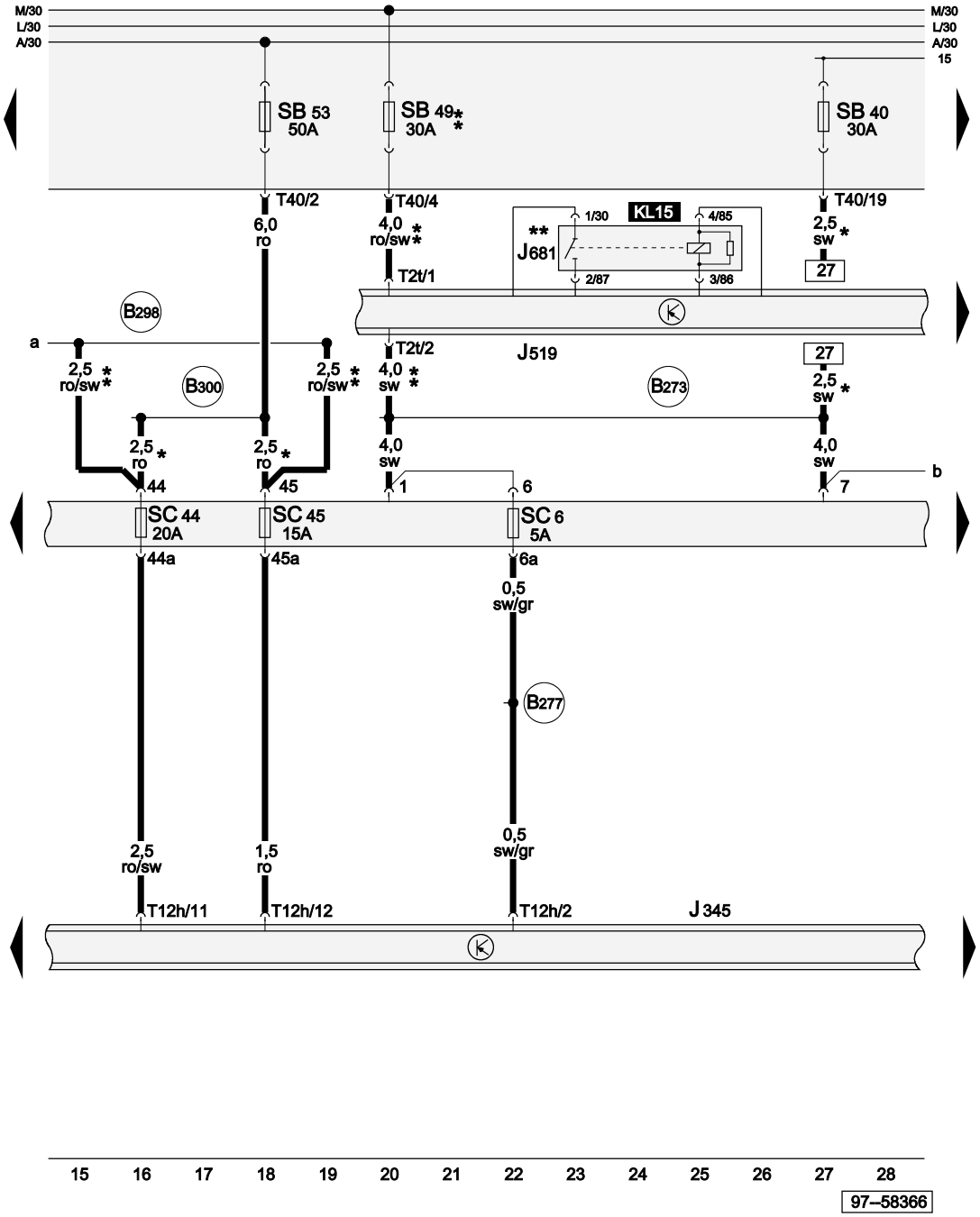


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Voltage supply relay, trailer socket

F	Brake light switch
J345	Trailer detector control unit
SA4	Fuse -4- on fuse box/battery
SA6	Fuse -6- on fuse box/battery
SC13	Fuse -13- on fuse box
T12h	12-pin connector, red (connector A)
T16	16-pin connector, black, dash panel, driver's side, bottom left (diagnostic connector)
62	Earth point, right C pillar
370	Earth connection -5-, in main wiring harness
B272	Positive (+) connection (30), in main wiring harness
B298	Positive (+) connection -2- (30), in main wiring harness
B316	Positive (+) connection -2- (30a), in main wiring harness
B335	Connection -1- (54), in main wiring harness
*	⇒ Applicable Current Flow Diagram: Basic equipment with battery in engine compartment
**	⇒ Applicable Current Flow Diagram: Basic equipment with battery in luggage compartment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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or	=	orange
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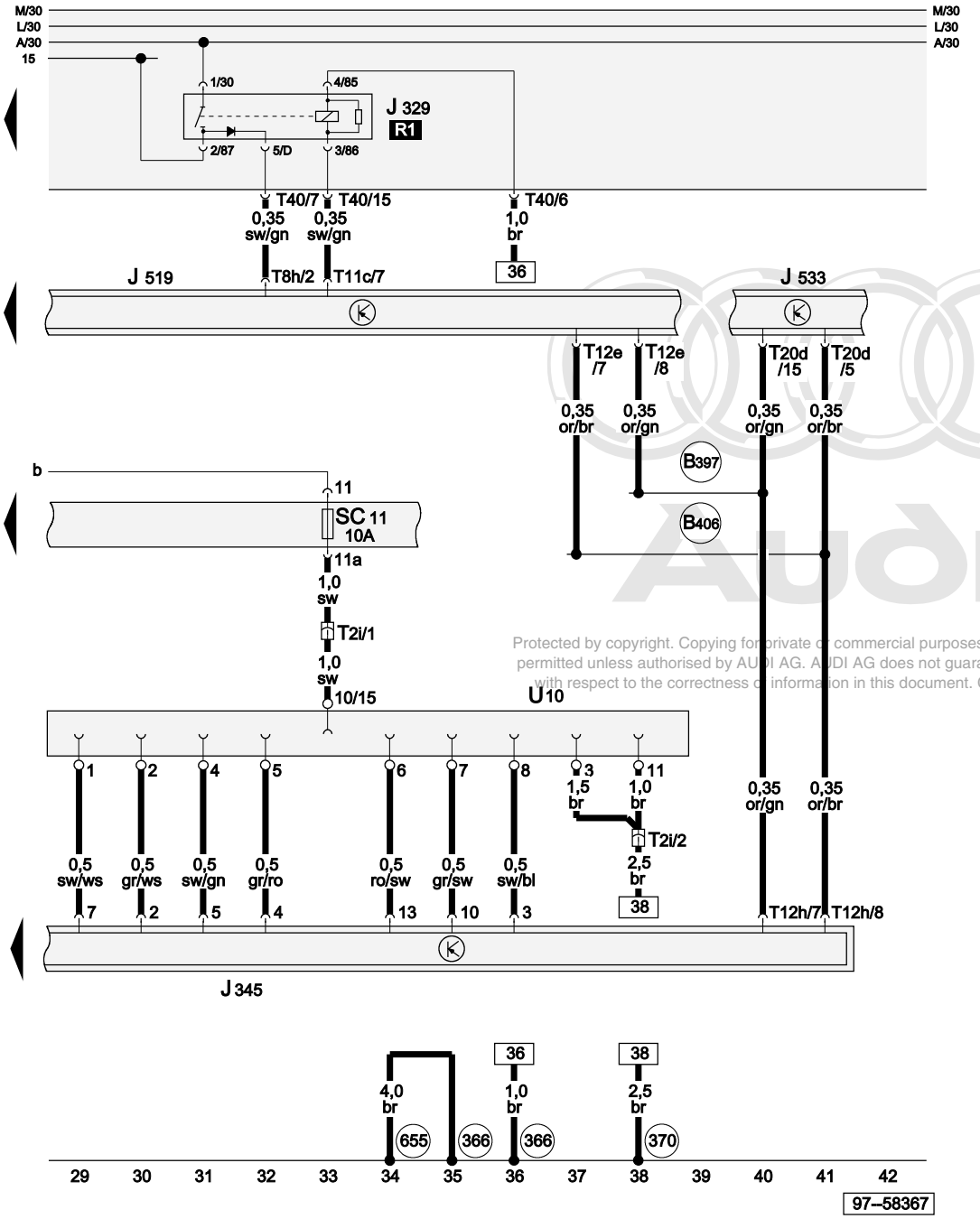


Fuses, trailer detector control unit

J345	Trailer detector control unit
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay -2-
SB40	Fuse -40- on fuse box
SB49	Fuse -49- on fuse box
SB53	Fuse -53- on fuse box
SC6	Fuse -6- on fuse box
SC44	Fuse -44- on fuse box
SC45	Fuse -45- on fuse box
T2t	2-pin connector, black (connector L)
T12h	12-pin connector, red (connector A)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
B273	Positive (+) connection (15), in main wiring harness
B277	Positive (+) connection -1- (15a), in main wiring harness
B298	Positive (+) connection -2- (30), in main wiring harness
B300	Positive (+) connection -4- (30), in main wiring harness
*	Only applies to models with battery in engine compartment
**	Only applies to models with battery in luggage compartment

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Voltage supply relay, trailer socket

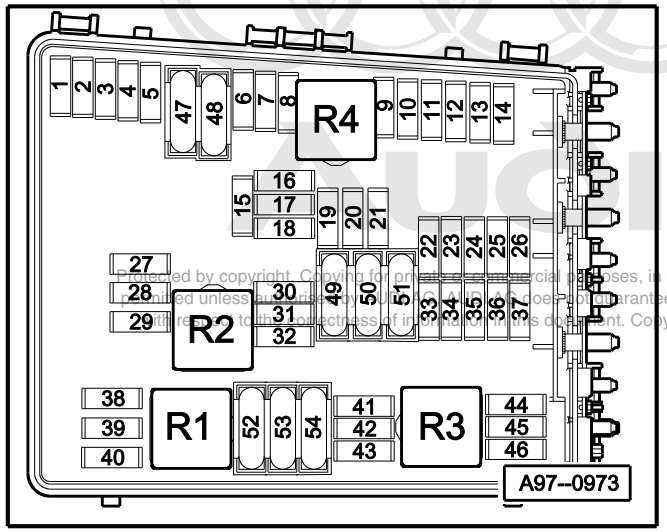
J329	Terminal 15 voltage supply relay
J345	Trailer detector control unit
J519	Onboard power supply control unit
J533	Data bus diagnostic interface
SC11	Fuse -11- on fuse box
T2i	2-pin connector, black, on trailer socket
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T12h	12-pin connector, red (connector A)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
U10	Trailer socket
366	Earth connection -1-, in main wiring harness
370	Earth connection -5-, in main wiring harness
655	Earth point, on left headlight
B397	Connection -1- (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Garage door operation - (Homelink)

from model year 2004

Relay and fuse carrier, electronics box



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- In engine compartment, front left

Fuse colours

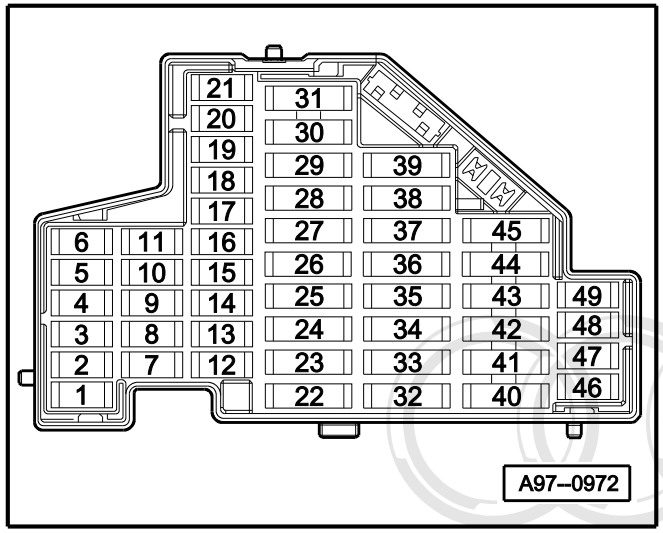
30 A - green

Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

Fuse holder



- Driver side dash panel

Fuse colours

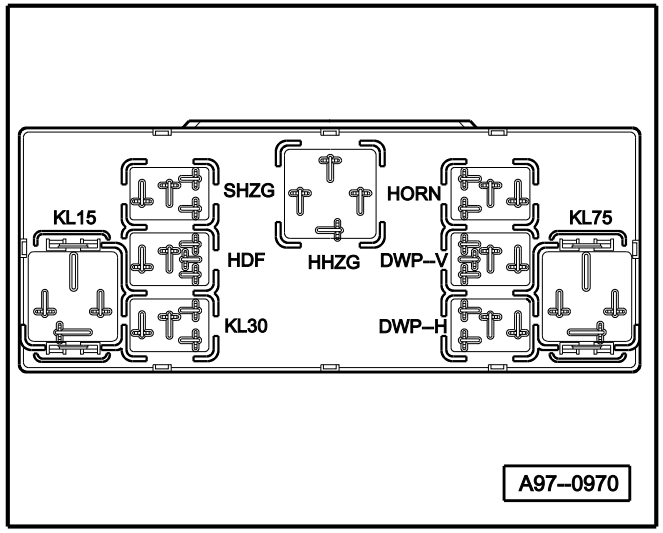
10 A - red

Note:

- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

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Onboard supply control unit - J519

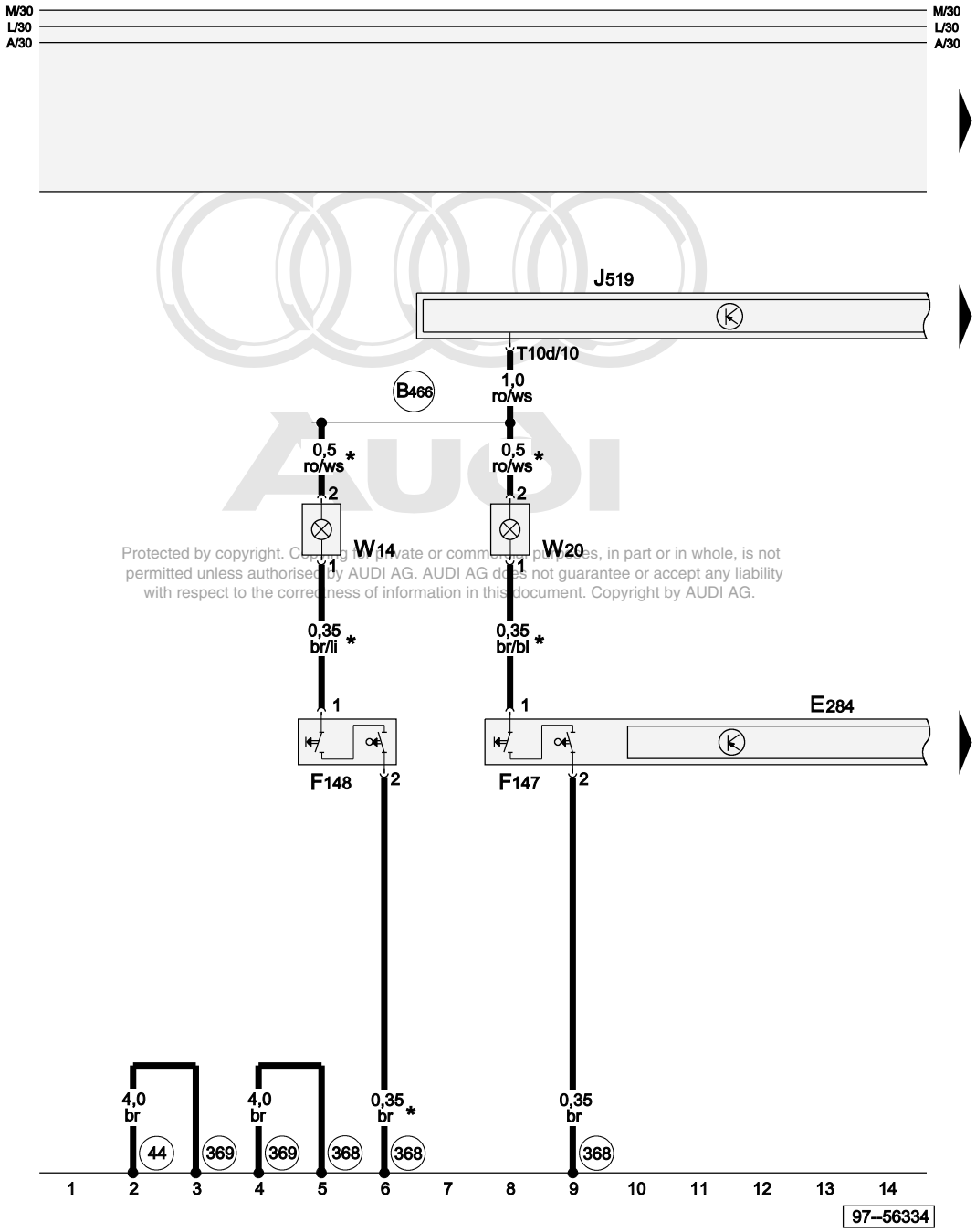


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♦ Dash panel, driver side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay 2 - J681

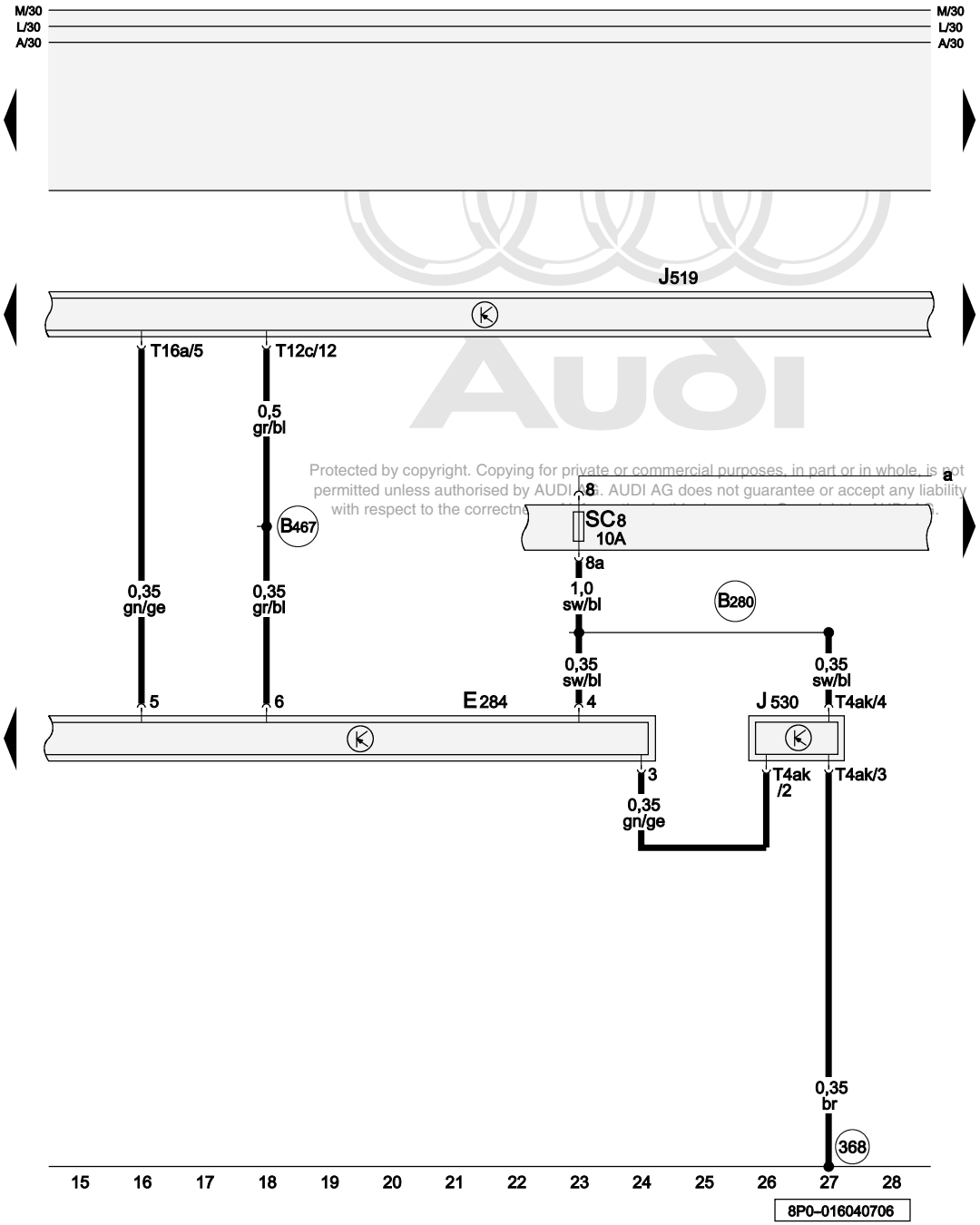


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Garage door operating unit

E284	Garage door operating unit
F147	Driver vanity mirror contact switch
F148	Front passenger vanity mirror contact switch
J519	Onboard supply control unit
T10d	10-pin connector, black (connector K)
W14	Illuminated vanity mirror (front passenger side)
W20	Illuminated vanity mirror (driver side)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
B466	Connection 2, in main wiring harness
*	models with illuminated vanity mirror only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

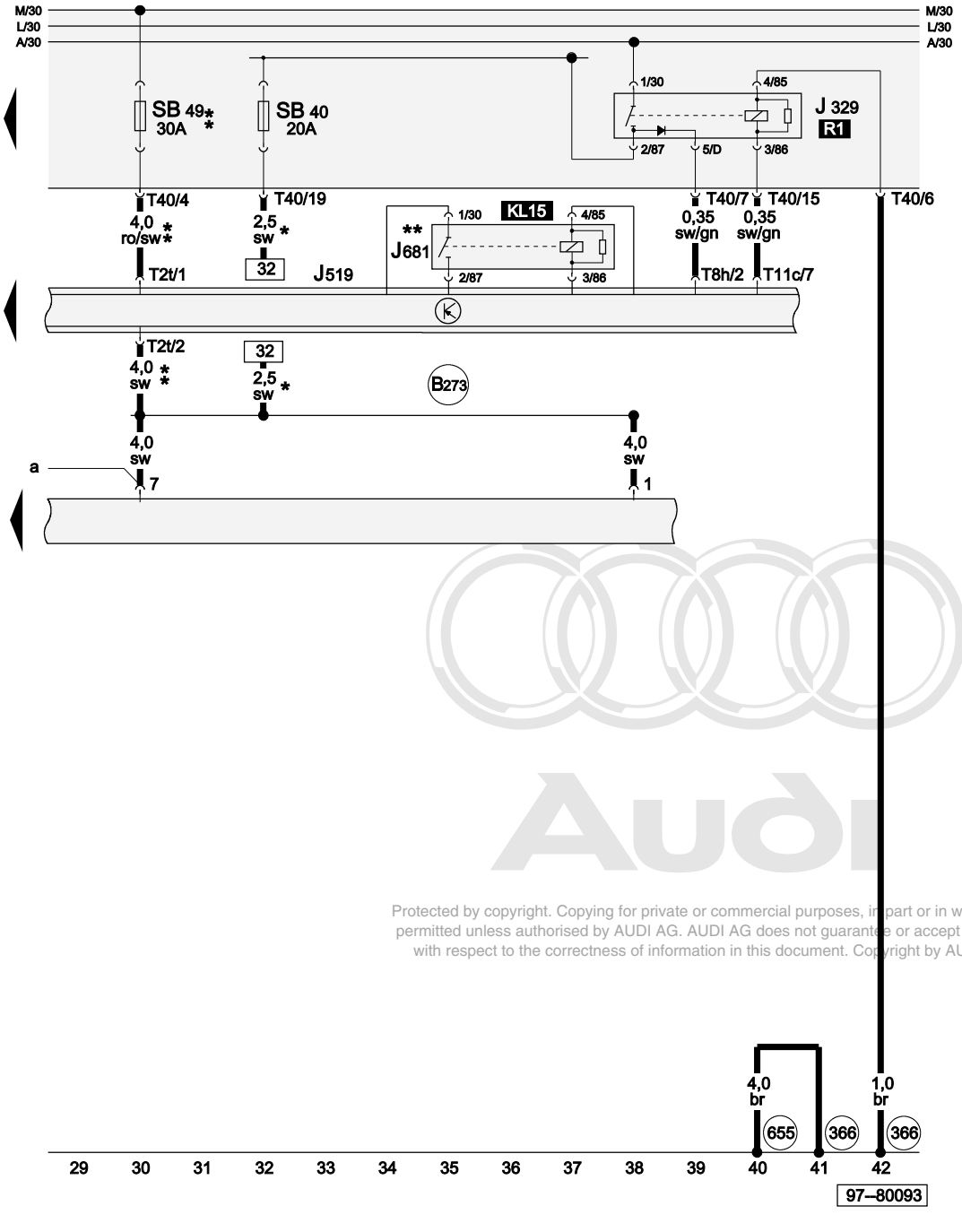


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Garage door operating unit, garage door operation control unit

J519	Onboard supply control unit
J530	Garage door operation control unit
E284	Garage door operating unit
SC8	Fuse 8 on fuse holder
T4ak	4-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T16a	16-pin connector, black (connector E)
368	Earth connection 3, in main wiring harness
B280	Positive connection 4 (15a), in main wiring harness
B467	Connection 3, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



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ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

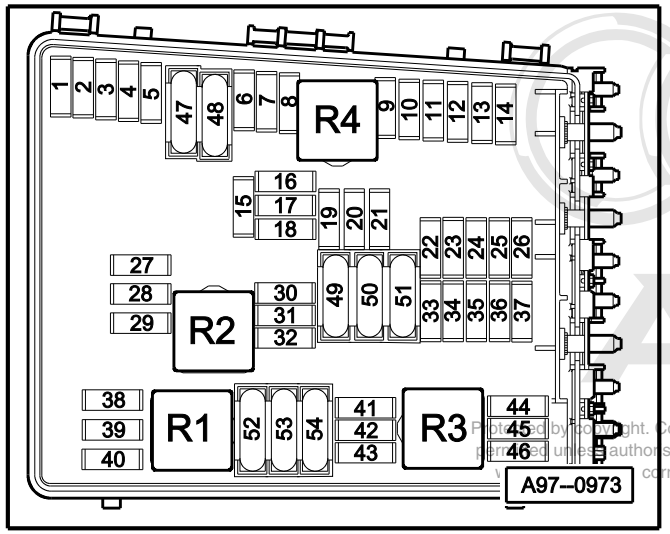
Terminal 15 voltage supply relay, terminal 15 voltage supply relay 2

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder
SB49	Fuse 49 on fuse holder
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B273	Positive connection (15), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

Ultra-sonic parking aid, rear

From model year 2004

Relay and fuse carrier, electronics box



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- In engine compartment, front left

Fuse colours

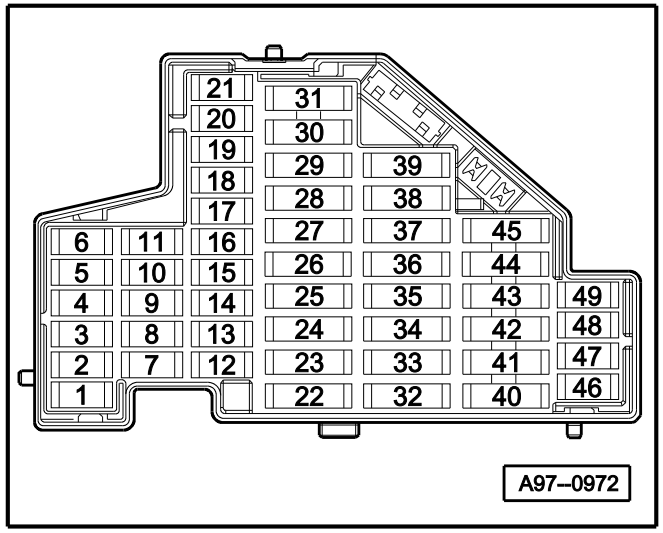
50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

Fuse box



- Dash panel, driver's side

Fuse colours

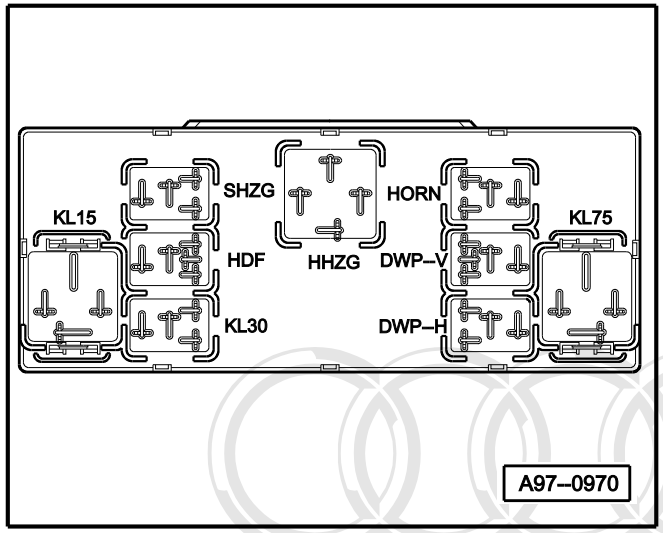
40 A - orange
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

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Onboard power supply control unit - J519

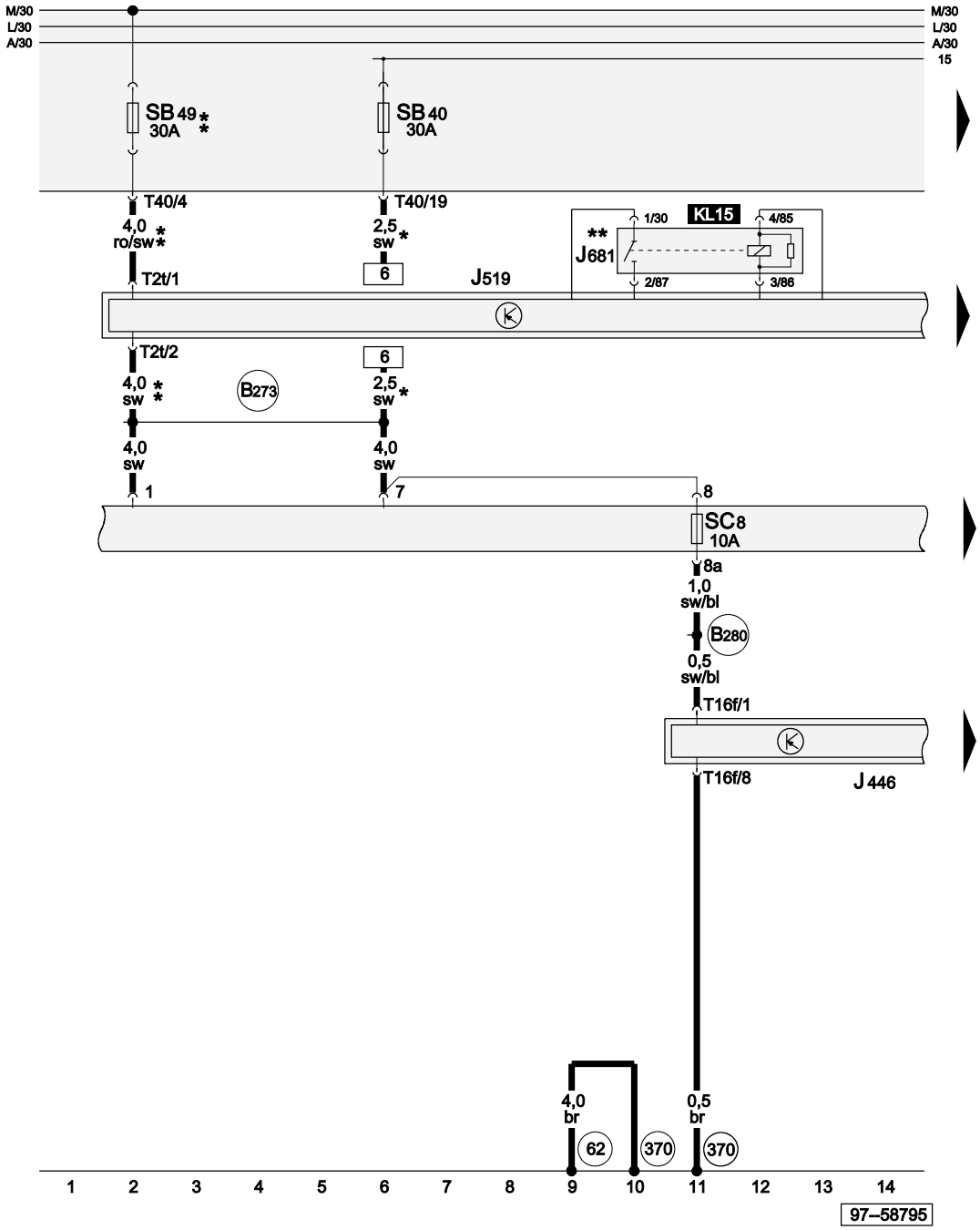


♦ Dash panel, driver's side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay -2- J681

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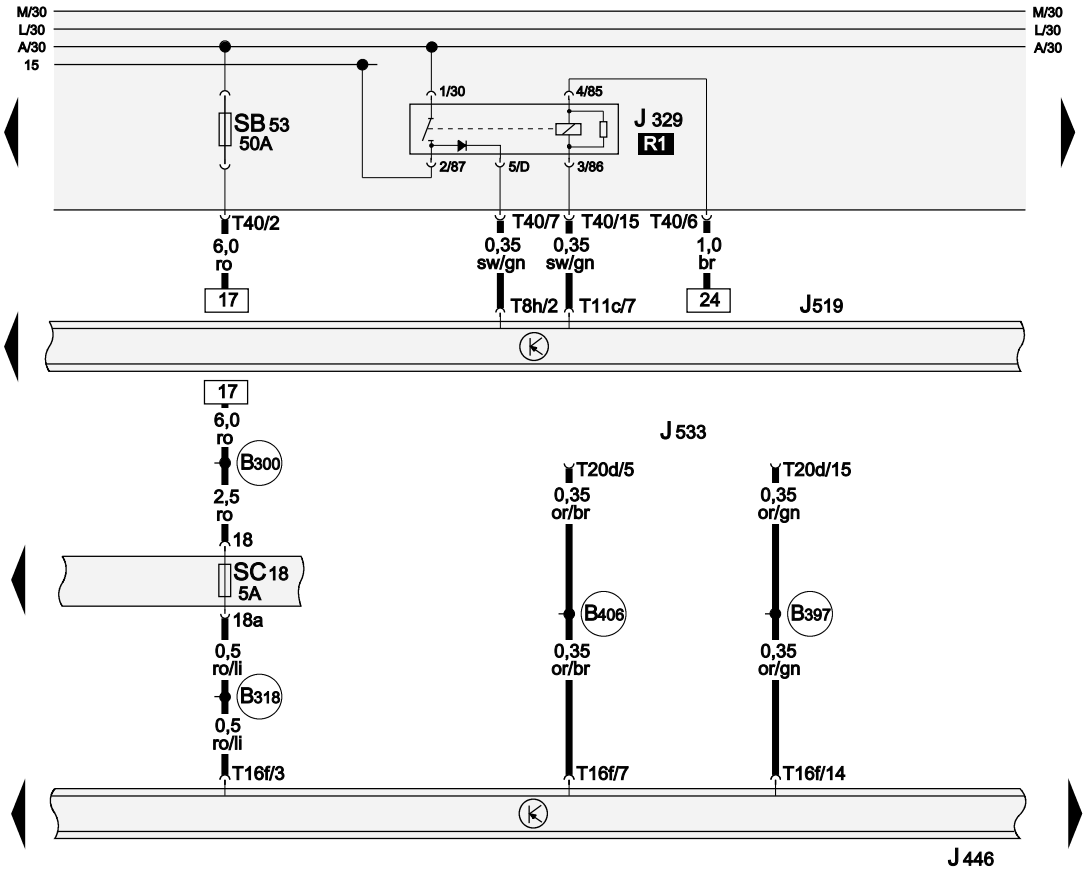


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Parking aid control unit, data bus diagnostic interface, fuses

J446	Parking aid control unit
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay -2-
SB40	Fuse -40- on fuse box
SB49	Fuse -49- on fuse box
SC8	Fuse -8- on fuse box
T2t	2-pin connector, black (connector L)
T16f	16-pin connector, brown, on parking aid control unit
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
62	Earth point, right C pillar
370	Earth connection -5-, in main wiring harness
B273	Positive (+) connection (15), in main wiring harness
B280	Positive (+) connection -4- (15a), in main wiring harness
*	⇒ Applicable Current Flow Diagram: Basic equipment with battery in engine compartment
**	⇒ Applicable Current Flow Diagram: Basic equipment with battery in luggage compartment

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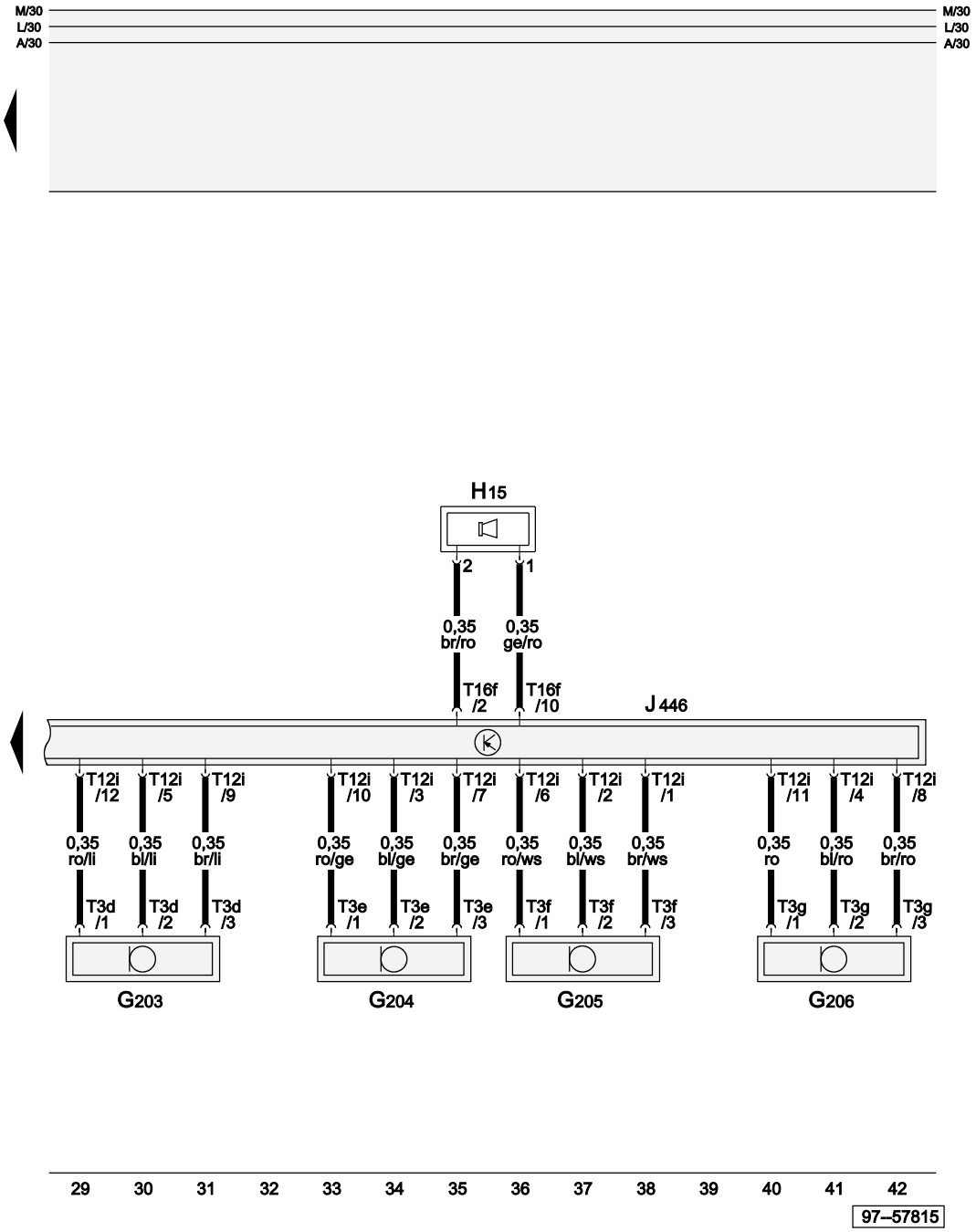


Parking aid senders, parking aid warning buzzer, parking aid control unit

J329	Terminal 15 voltage supply relay
J446	Parking aid control unit
J533	Data bus diagnostic interface
J519	Onboard power supply control unit
SB53	Fuse -53- on fuse box
SC18	Fuse -18- on fuse box
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T16f	16-pin connector, brown, on parking aid control unit
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
366	Earth connection -1-, in main wiring harness
655	Earth point, on left headlight
B300	Positive (+) connection -4- (30), in main wiring harness
B318	Positive (+) connection -4- (30a), in main wiring harness
B397	Connection -1- (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Parking aid senders, parking aid warning buzzer, parking aid control unit

G203	Rear left parking aid sender
G204	Centre rear left parking aid sender
G205	Centre rear right parking aid sender
G206	Rear right parking aid sender
H15	Rear parking aid warning buzzer
J446	Parking aid control unit
T3d	3-pin connector, black, on rear left parking aid sender
T3e	3-pin connector, black, on centre rear left parking aid sender
T3f	3-pin connector, black, on centre rear right parking aid sender
T3g	3-pin connector, black, on rear right parking aid sender
T12i	12-pin connector, black, on parking aid control unit
T16f	16-pin connector, brown, on parking aid control unit

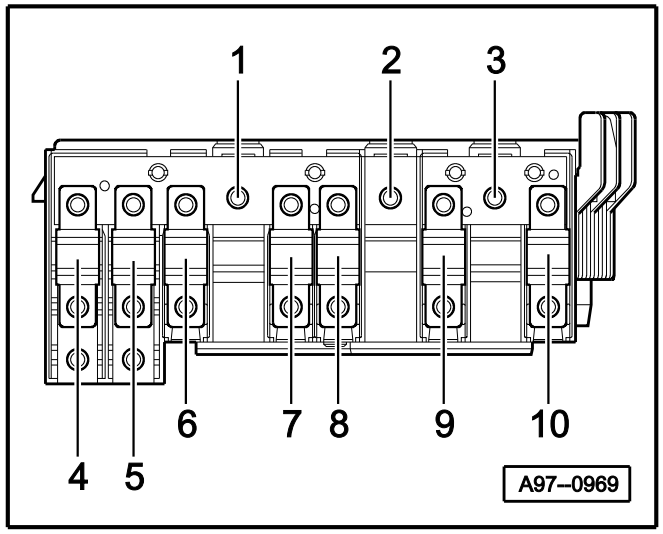
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ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Radio without Bose sound system

from model year 2004

Main fuse holder, electronics box



♦ On electronics box, in engine compartment, front left

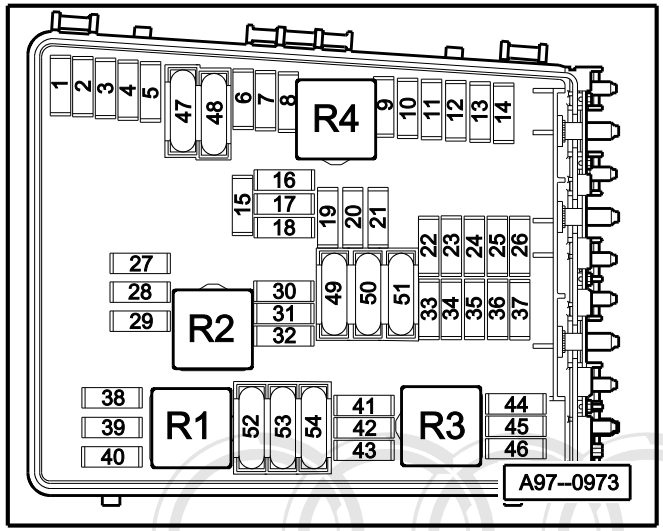
Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

Note:

♦ *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

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Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

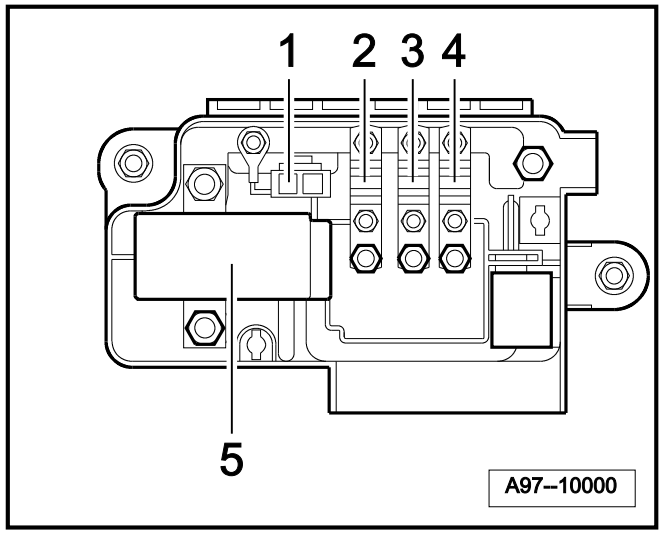
30 A - green
15 A - blue

Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

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Main fuse box



- In luggage compartment, rear right

Fuse locations

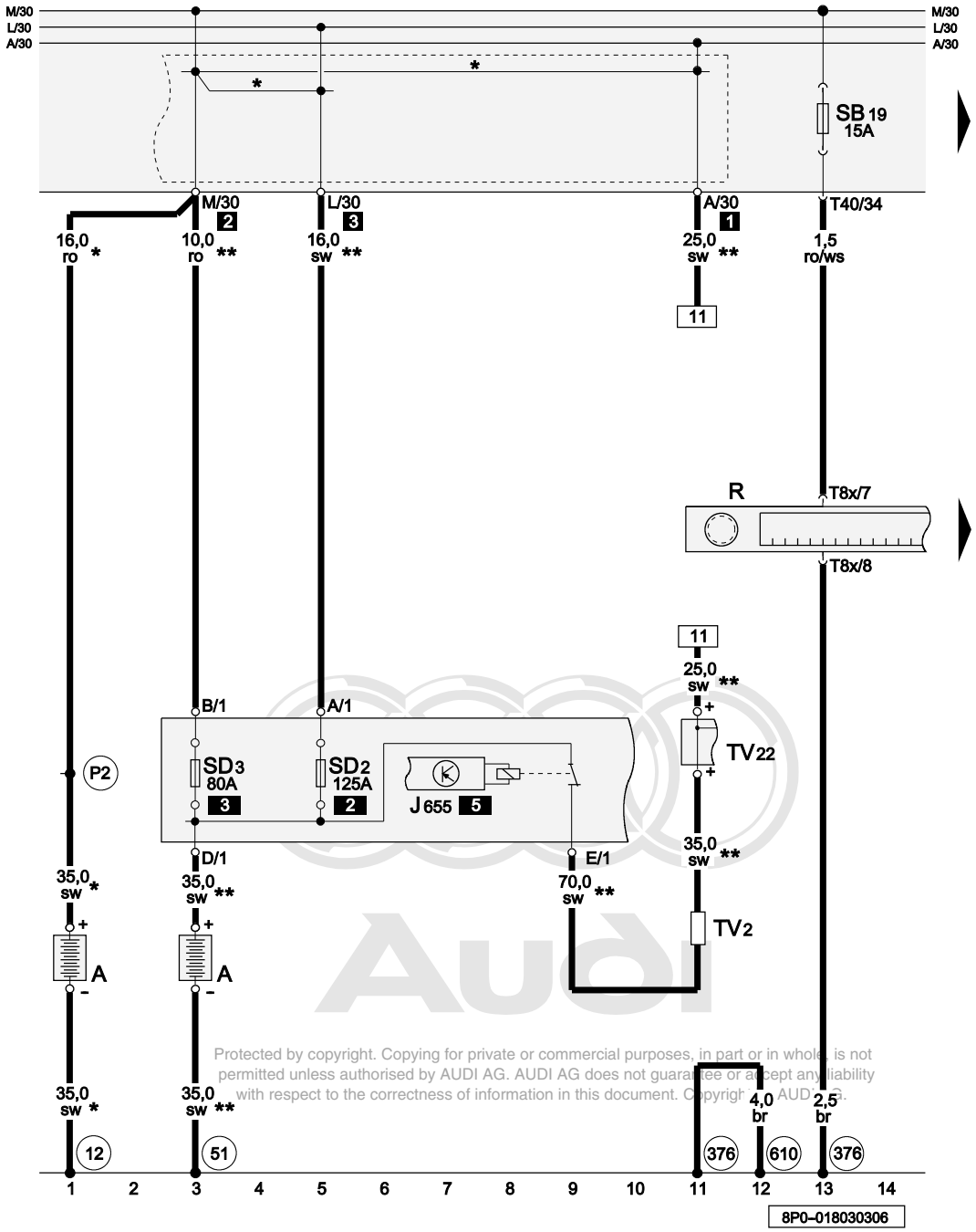
2 - Fuse -2- on fuse holder - SD2
3 - Fuse -3- on fuse holder - SD3
Position of relays

5 - Battery cut-off relay - J655

Note:

- *The fuses in the main fuse box are designated as SD in the Current Flow Diagram.*

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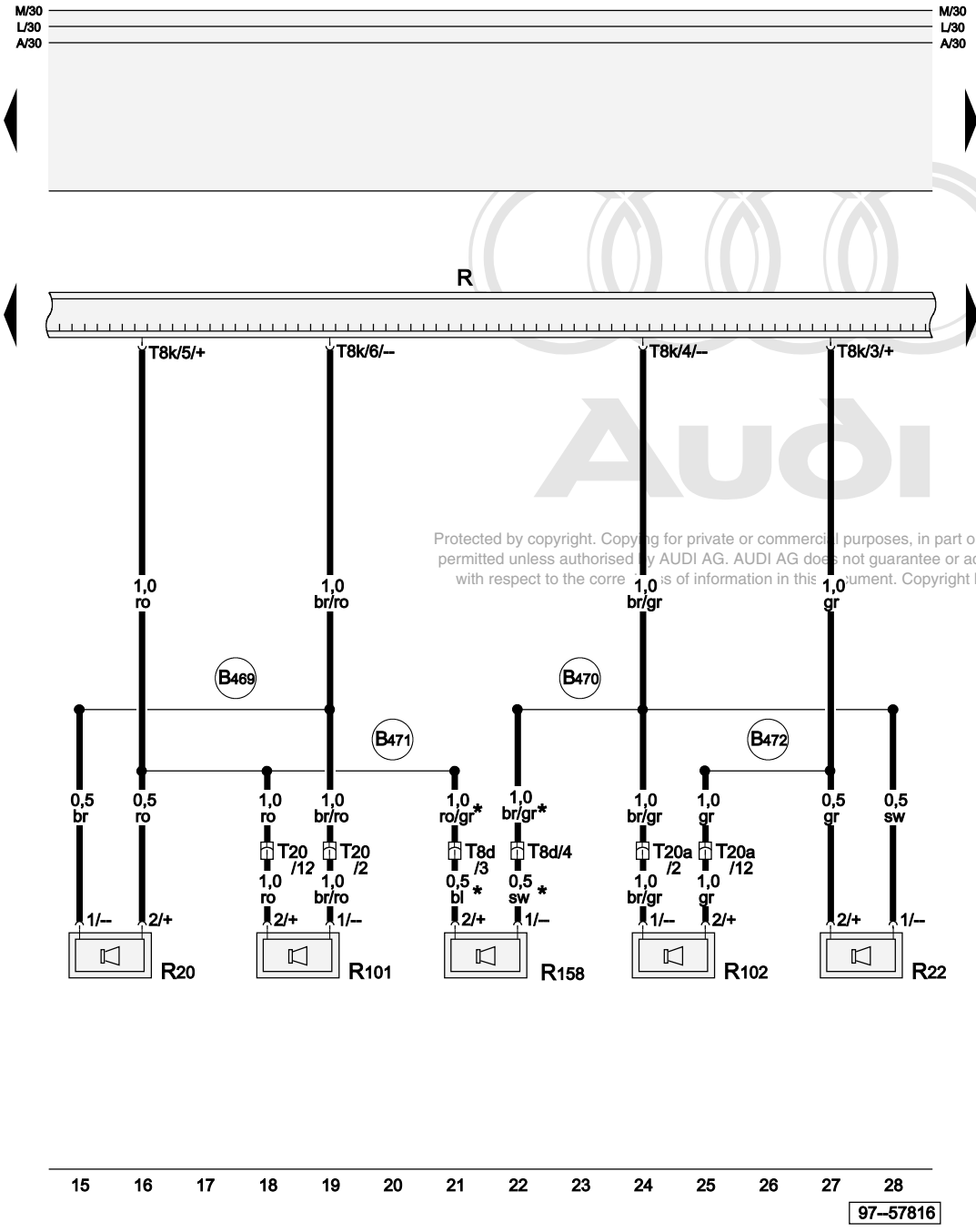


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Battery, fuses on fuse holder

A	Battery
J655	Battery cut-off relay
R	Radio
SB19	Fuse 19 on fuse holder B
SD2	Fuse 2 on fuse holder D
SD3	Fuse 3 on fuse holder D
T8x	8-pin connector, black (connector C)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
12	Earth point, on left in engine compartment
51	Earth point, on right in luggage compartment
376	Earth connection 11, in main wiring harness
610	Earth point (audio), front under centre console
P2	Positive connection (30), in battery wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

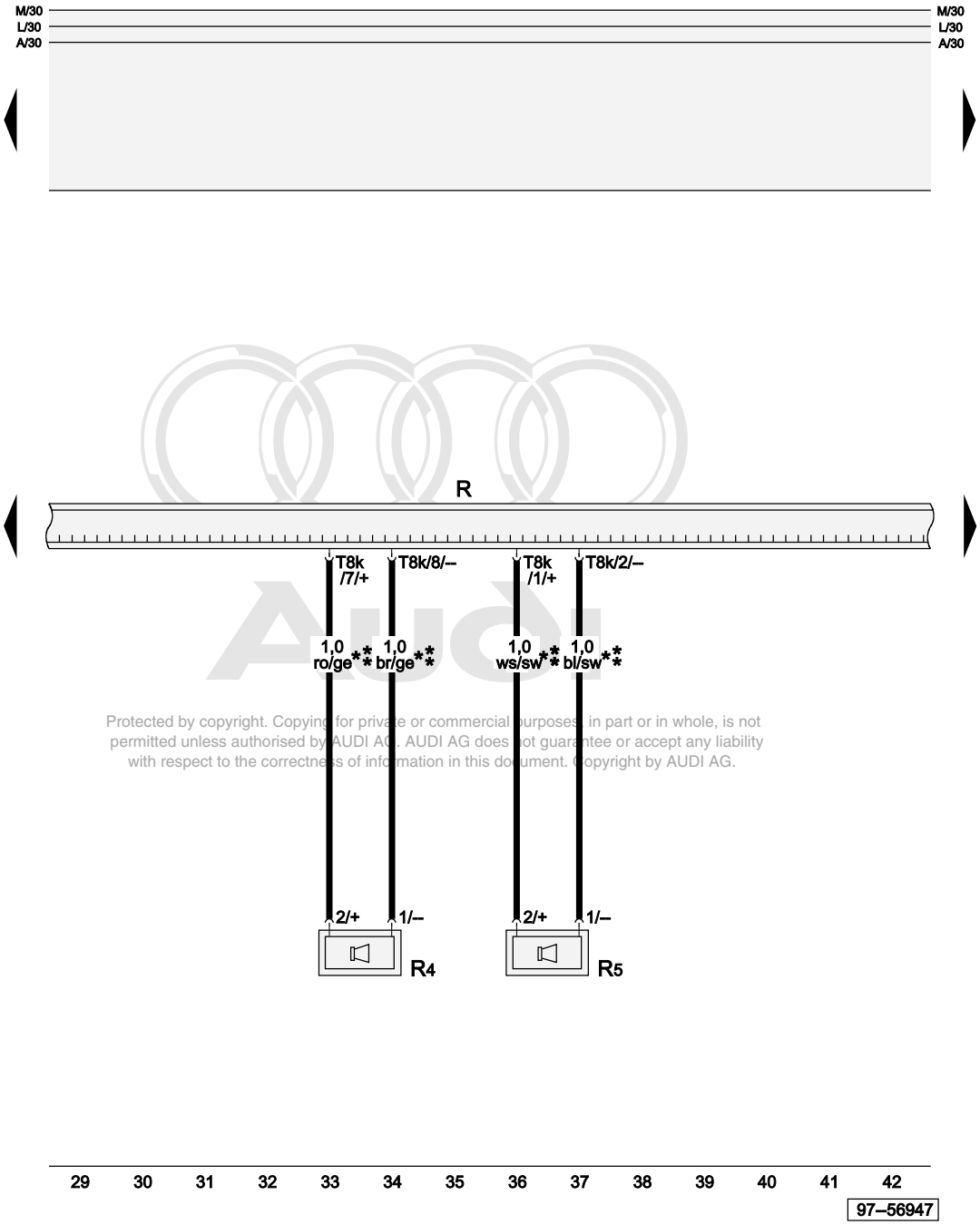


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Front loudspeaker

R	Radio
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8k	8-pin connector, brown (connector B)
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness
*	dropped for models without amplifier

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

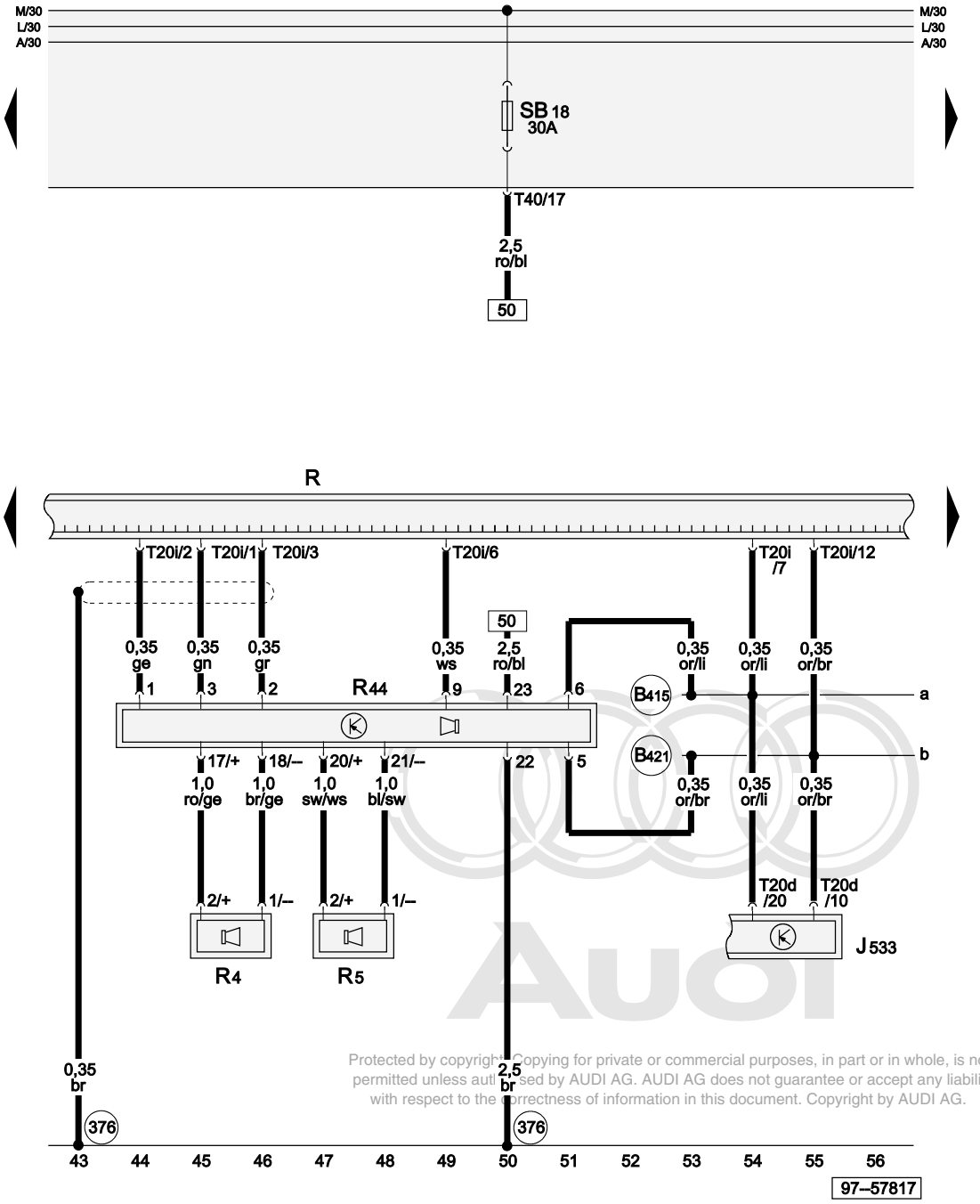


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Rear loudspeaker without amplifier

R	Radio
R4	Rear left loudspeaker
R5	Rear right loudspeaker
T8k	8-pin connector, brown (connector B)
*	is dropped models with amplifier only
**	depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

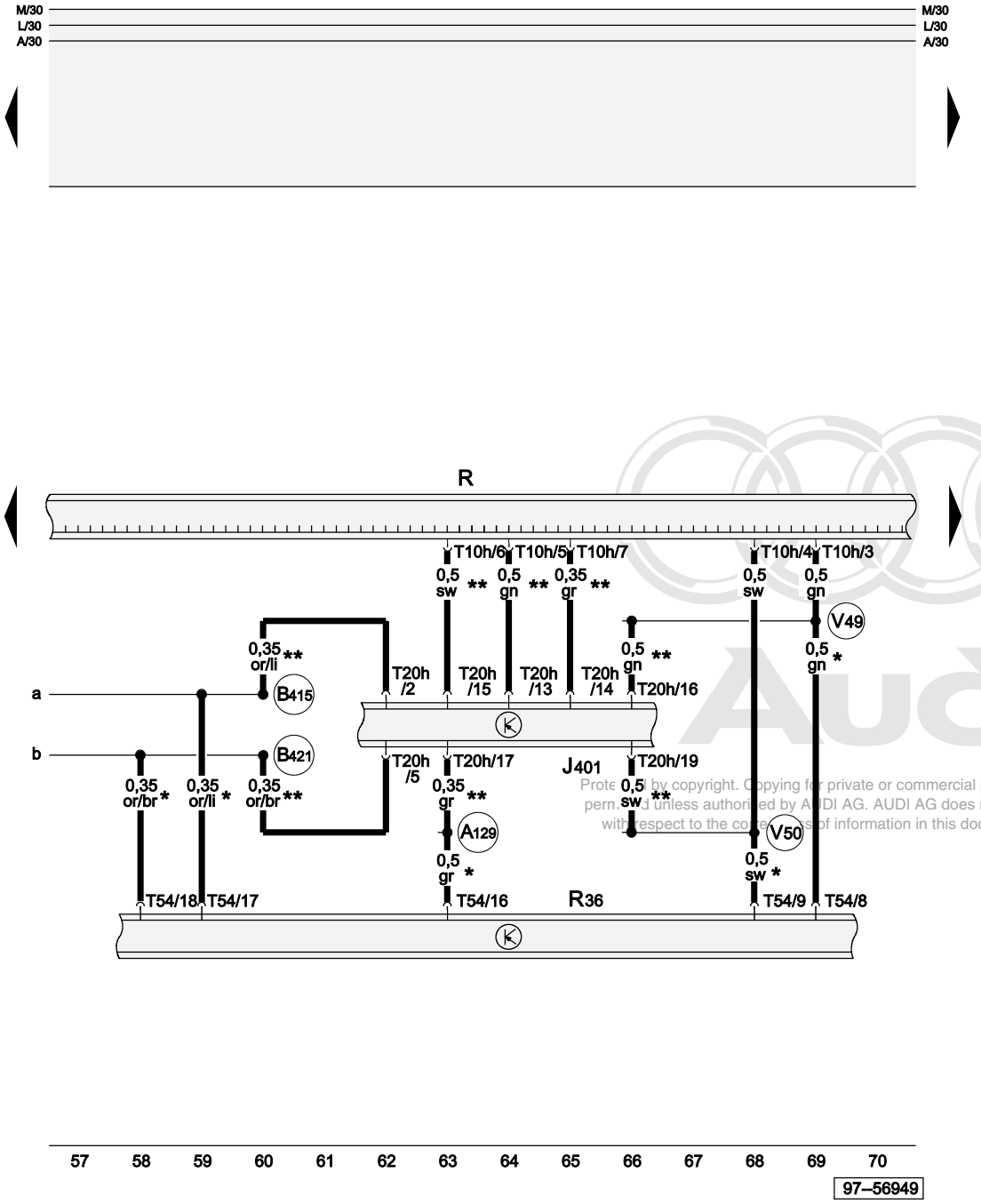


Rear loudspeaker with amplifier, infotainment CAN bus

J533	Data bus diagnostic interface
R	Radio
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder
T20d	20-pin connector, yellow (connector A)
T20i	20-pin connector, black (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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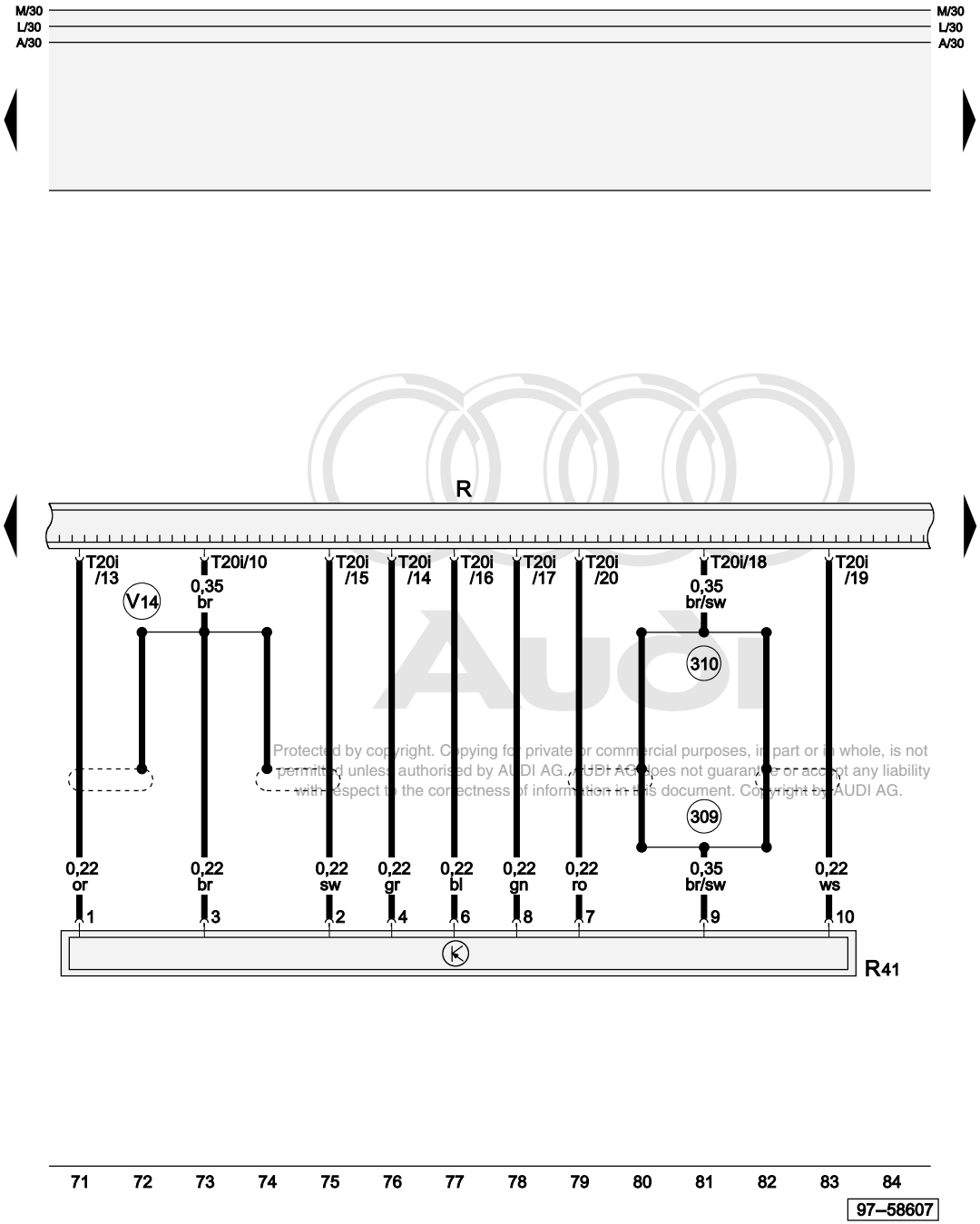


Muting, infotainment CAN bus

J401	Navigation system with CD drive control unit
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T20h	20-pin connector, black (connector C)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF+), in communication wiring harness
V50	Connection (NF-), in communication wiring harness
*	for models with mobile telephone/ telephone only
**	for models with navigation system NS-LOW only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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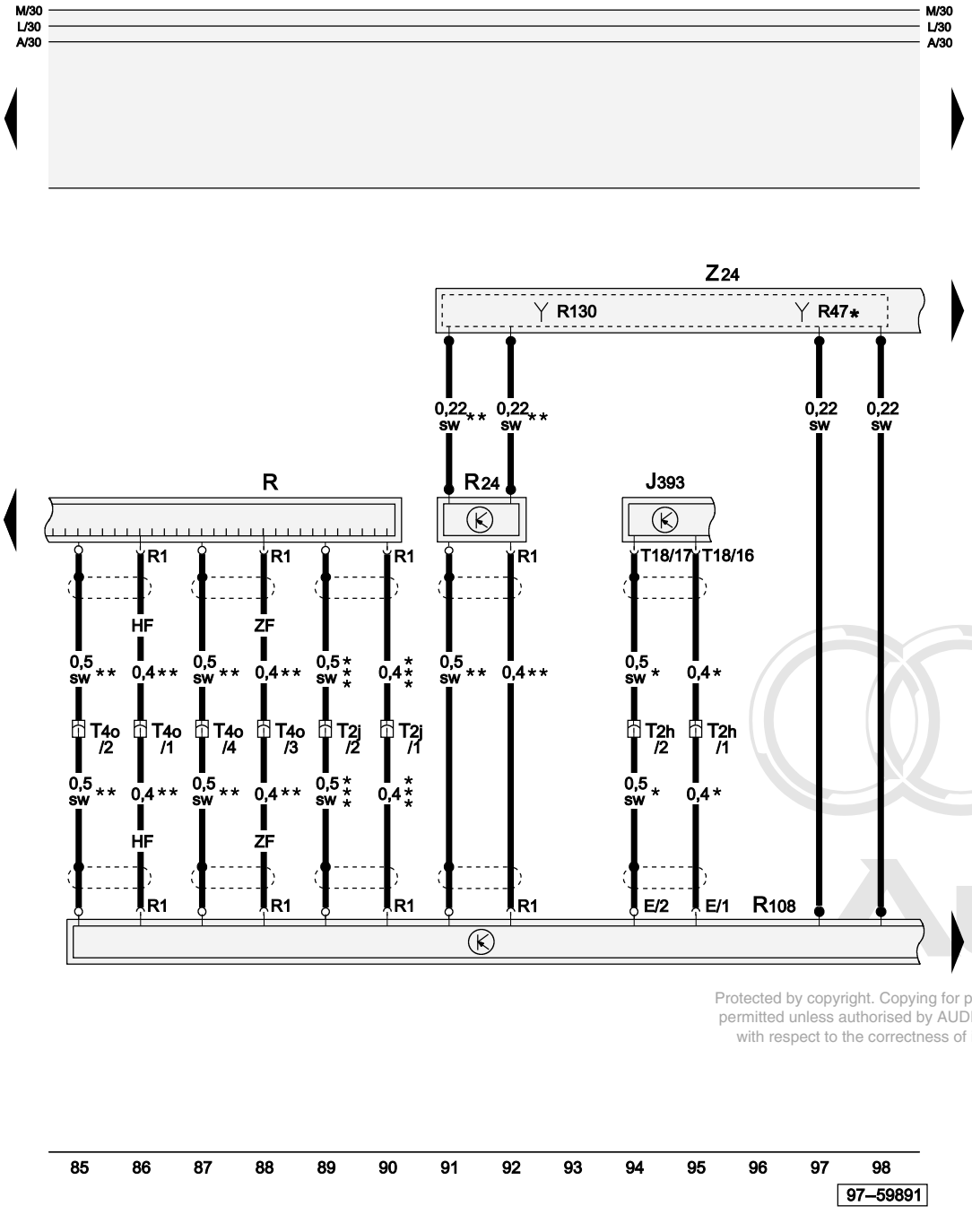


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CD changer

R	Radio
R41	CD changer
T20i	20-pin connector, black (connector A)
309	Earth connection 1, screening, in CD changer wiring harness
310	Earth connection 2, screening, in CD changer wiring harness
V14	Connection (screening), in CD changer wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

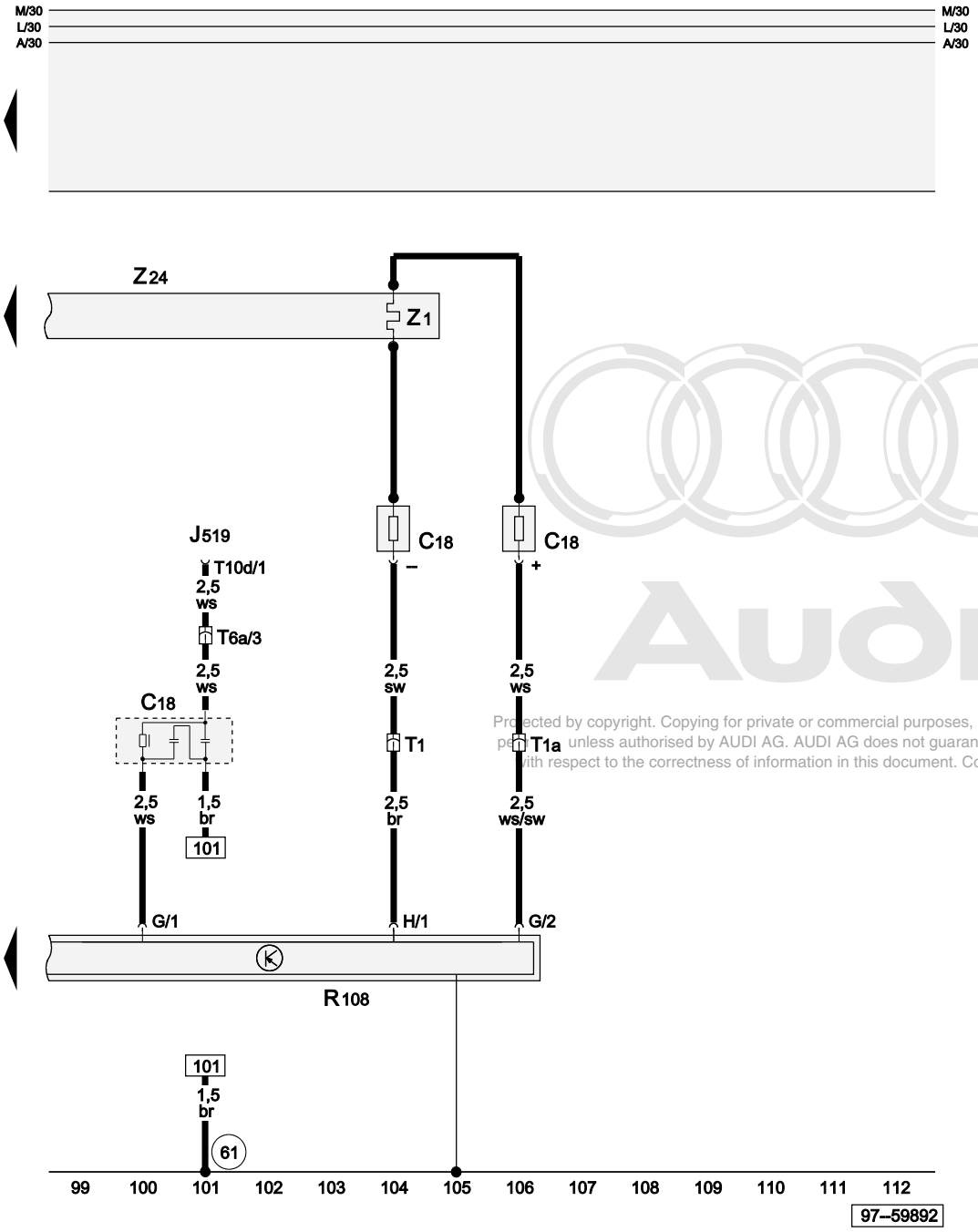


Left aerial module, rear window aerial 1

J393	Convenience system central control unit
R	Radio
R1	Aerial connection
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T2j	2-pin connector, near C-pillar right
T4o	4-pin connector, near C-pillar right
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only
**	for models with radio concert and symphony only
***	for models with radio chorus only

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Left aerial module, heated rear window

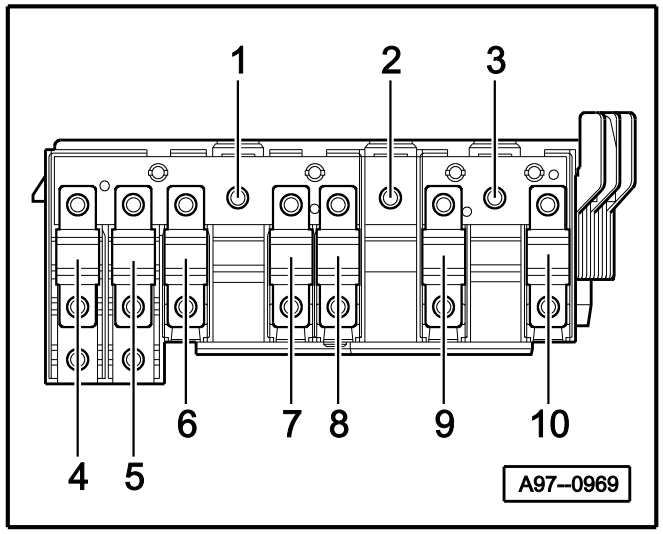
C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
T1	Single connector, black, in rear lid
T1a	Single connector, brown, in rear lid
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
(61)	Earth point, left C-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Radio with Bose sound system

from model year 2004

Main fuse holder, electronics box



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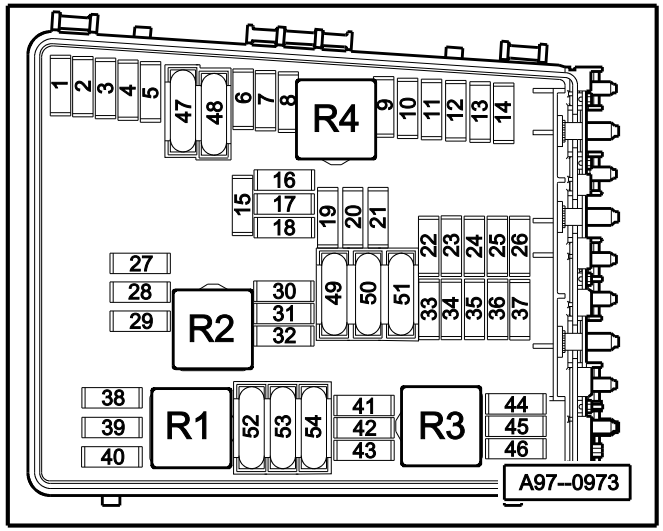
- On electronics box, in engine compartment, front left

Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

Note:

- *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

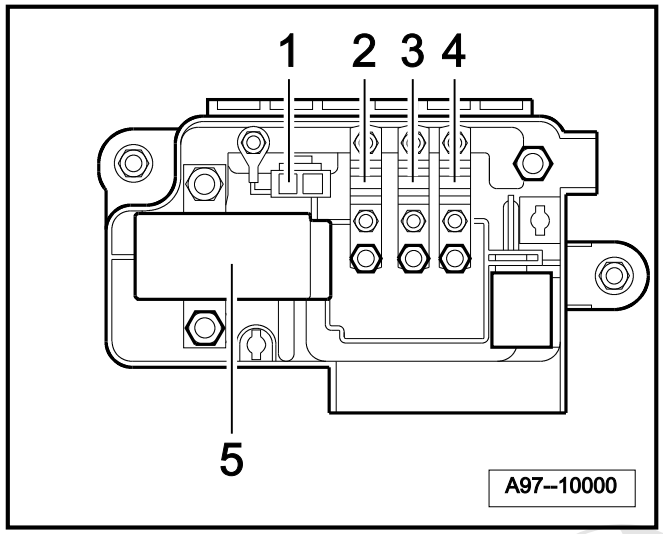
30 A - green
15 A - blue

Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

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Main fuse box



- In luggage compartment, rear right

Fuse locations

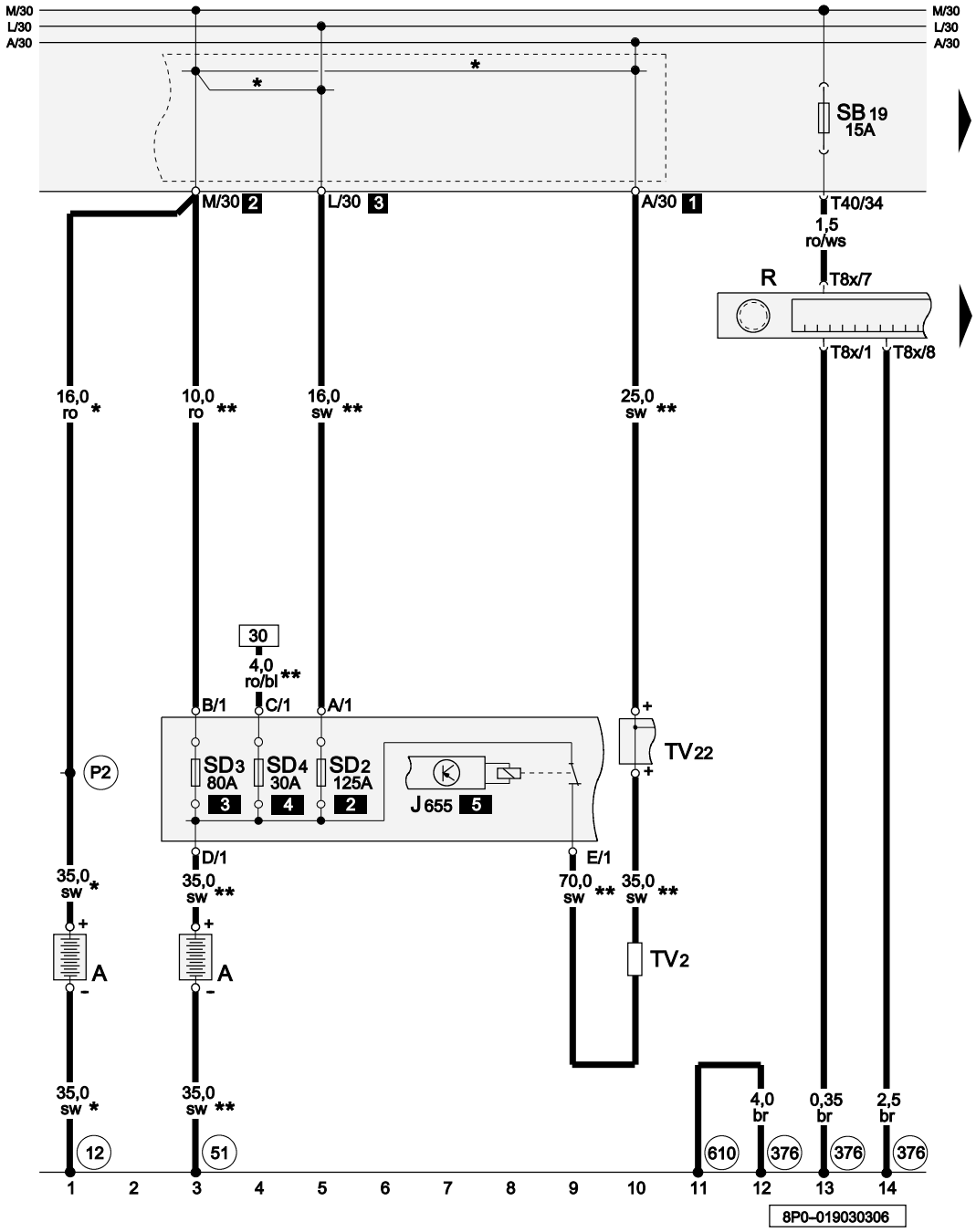
2 - Fuse -2- on fuse holder - SD2
3 - Fuse -3- on fuse holder - SD3
4 - Fuse 4 on fuse holder - SD4
Position of relays

5 - Battery cut-off relay - J655

Note:

- *The fuses in the main fuse box are designated as SD in the Current Flow Diagram.*

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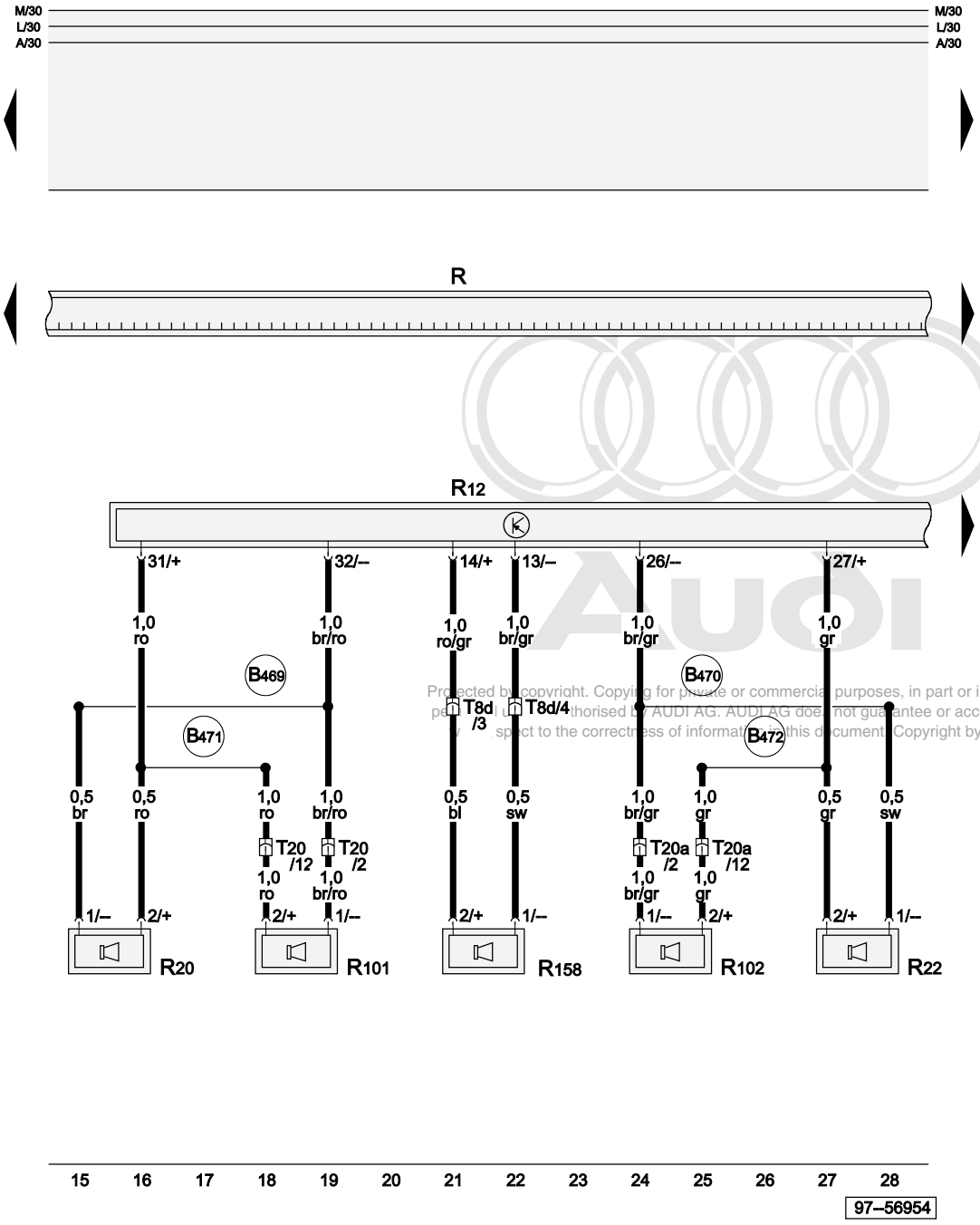


Battery, fuses on fuse holder

A	Battery
J655	Battery cut-off relay
R	Radio
SB19	Fuse 19 on fuse holder B
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
SD4	Fuse 4 on fuse holder
T8x	8-pin connector, black (connector C)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
12	Earth point, on left in engine compartment
51	Earth point, on right in luggage compartment
376	Earth connection 11, in main wiring harness
610	Earth point (audio), front under centre console
P2	Positive connection (30), in battery wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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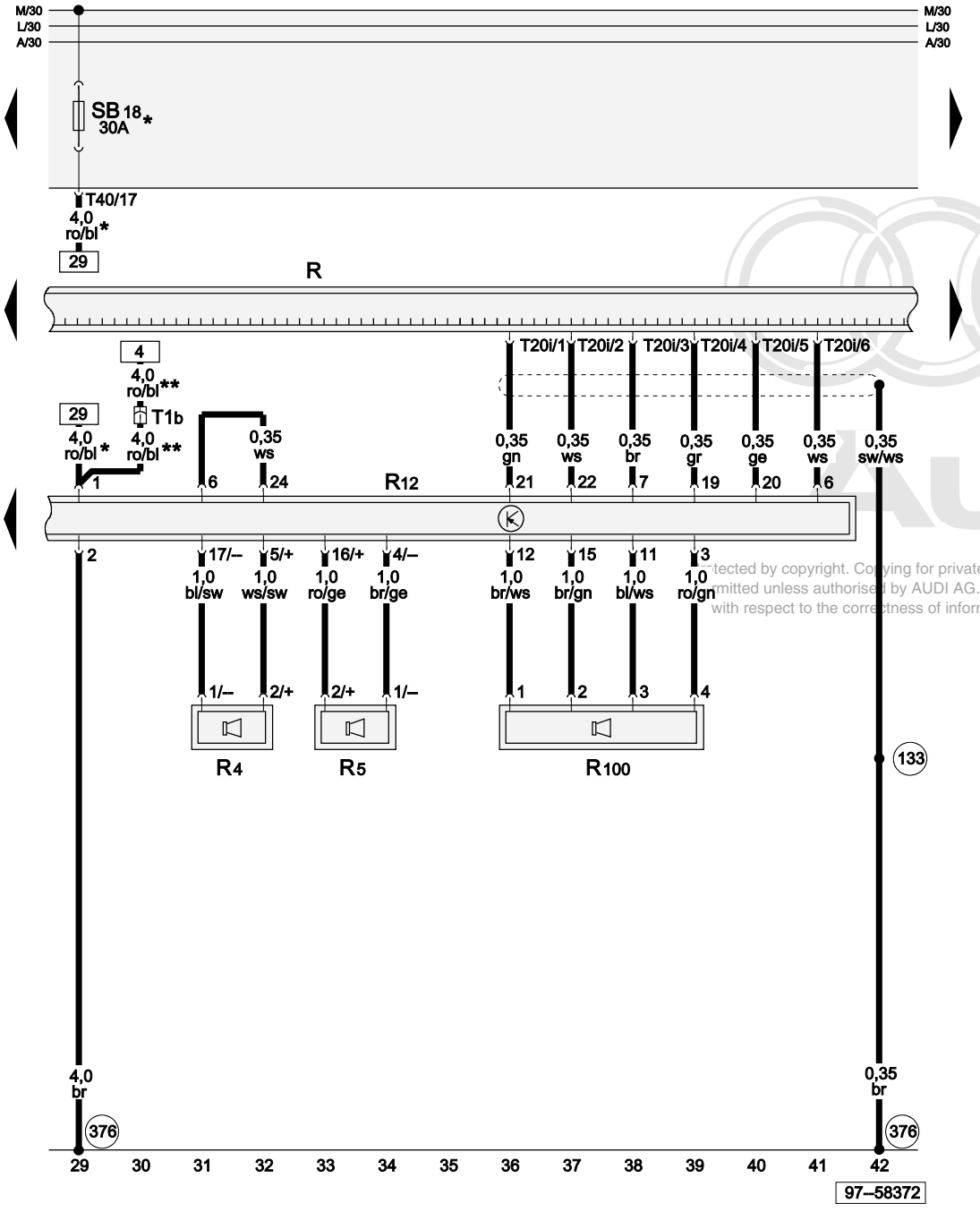


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Front loudspeaker

R	Radio
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

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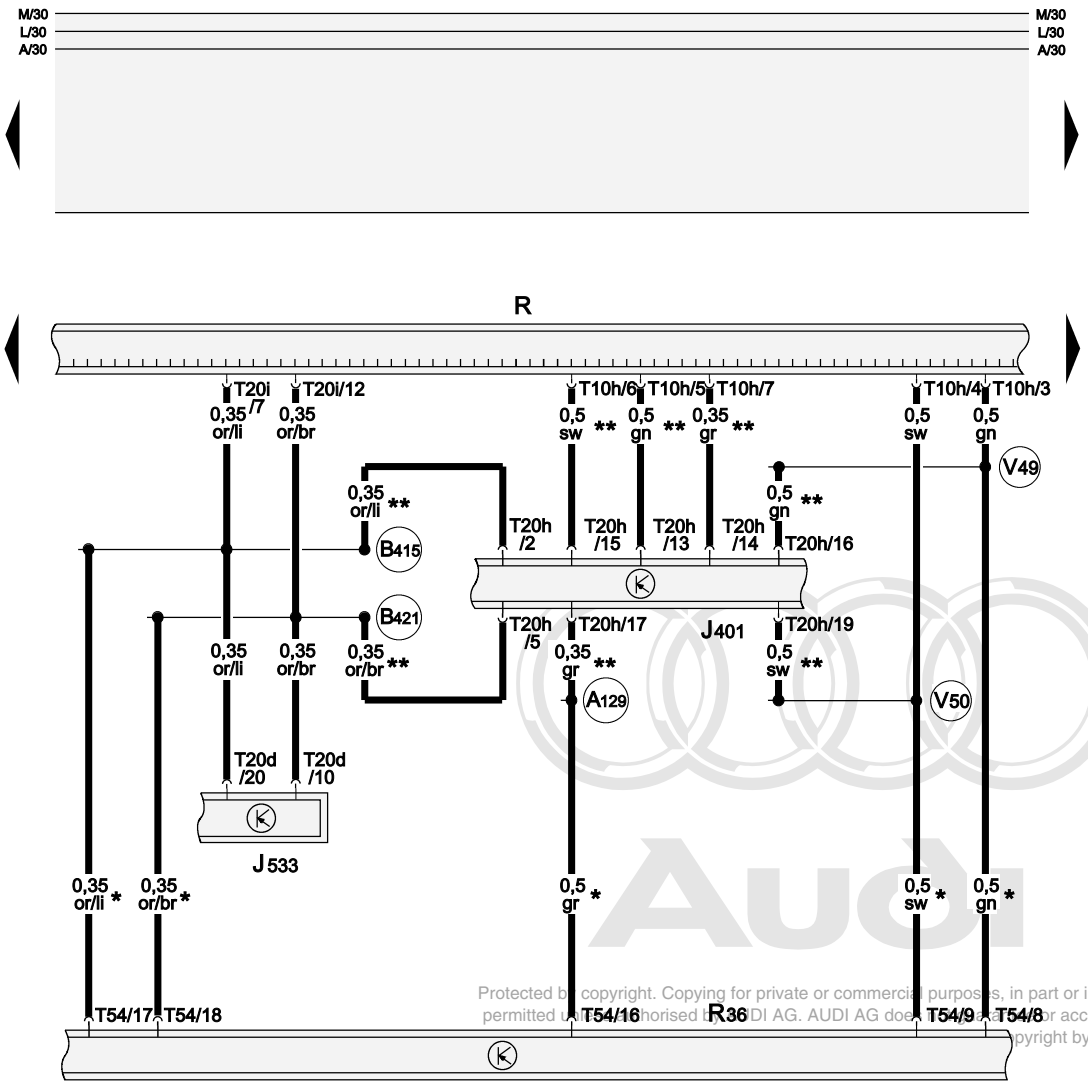


Rear loudspeaker with amplifier

R	Radio
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder
T1b	1-pin connector, black, on left C-pillar
T20i	20-pin connector, black (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

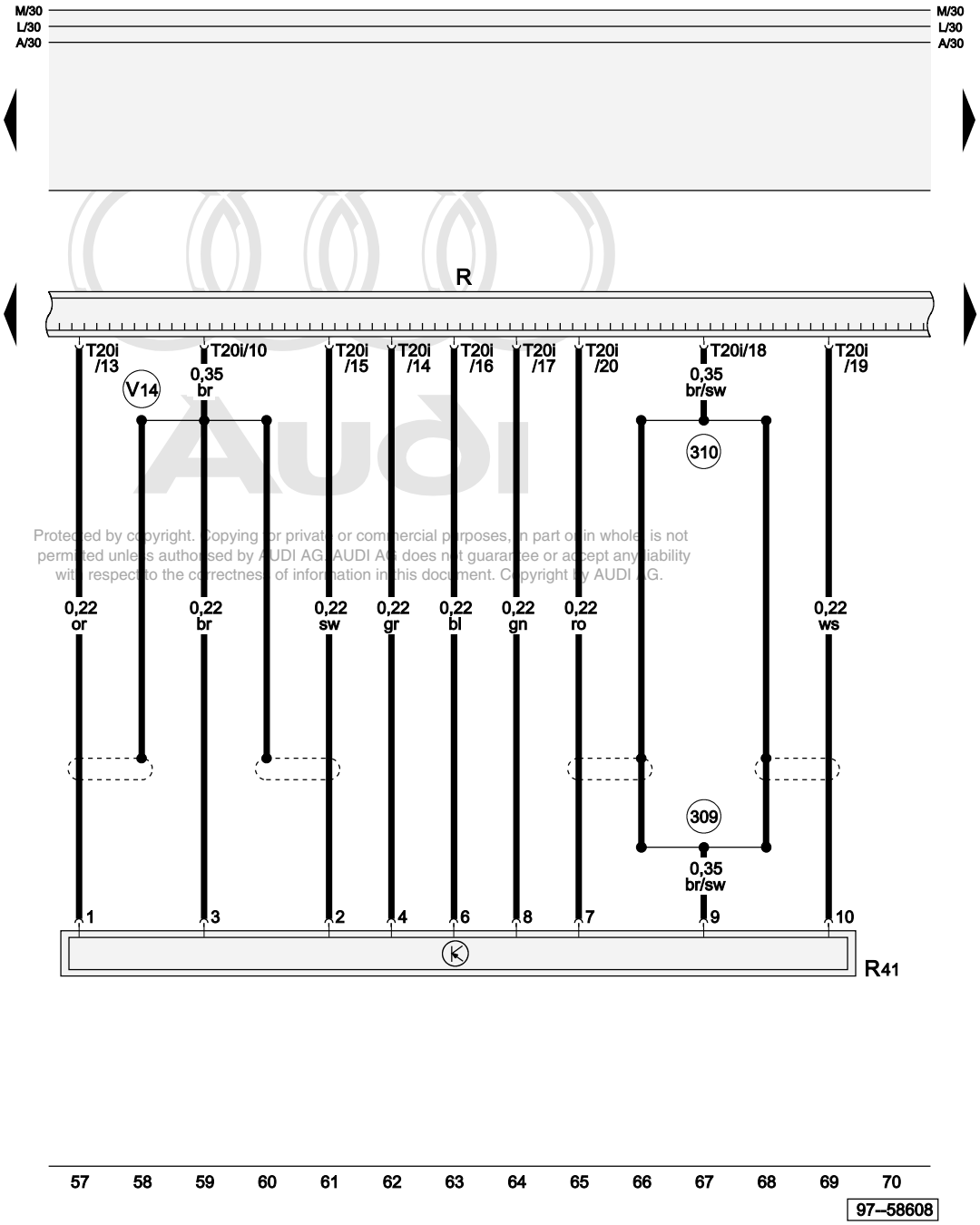


Muting, infotainment CAN bus

J401	Navigation system with CD drive control unit
J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T20d	20-pin connector, yellow (connector A)
T20h	20-pin connector, black (connector C)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF+), in communication wiring harness
V50	Connection (NF-), in communication wiring harness
*	for models with mobile telephone/ telephone only
**	for models with navigation system NS-LOW only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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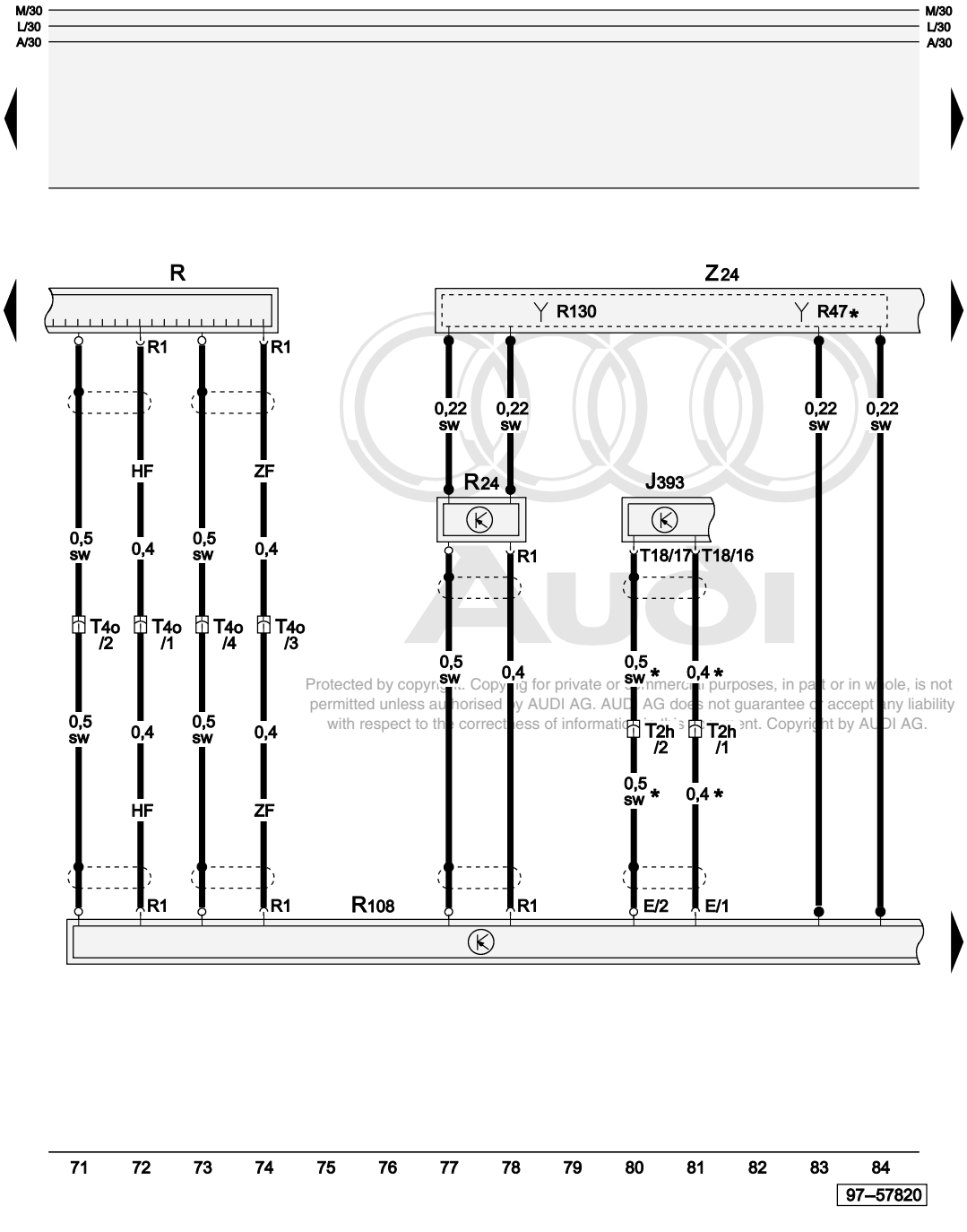


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CD changer

R	Radio
R41	CD changer
T20i	20-pin connector, black (connector A)
309	Earth connection 1, screening, in CD changer wiring harness
310	Earth connection 2, screening, in CD changer wiring harness
V14	Connection (screening), in CD changer wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

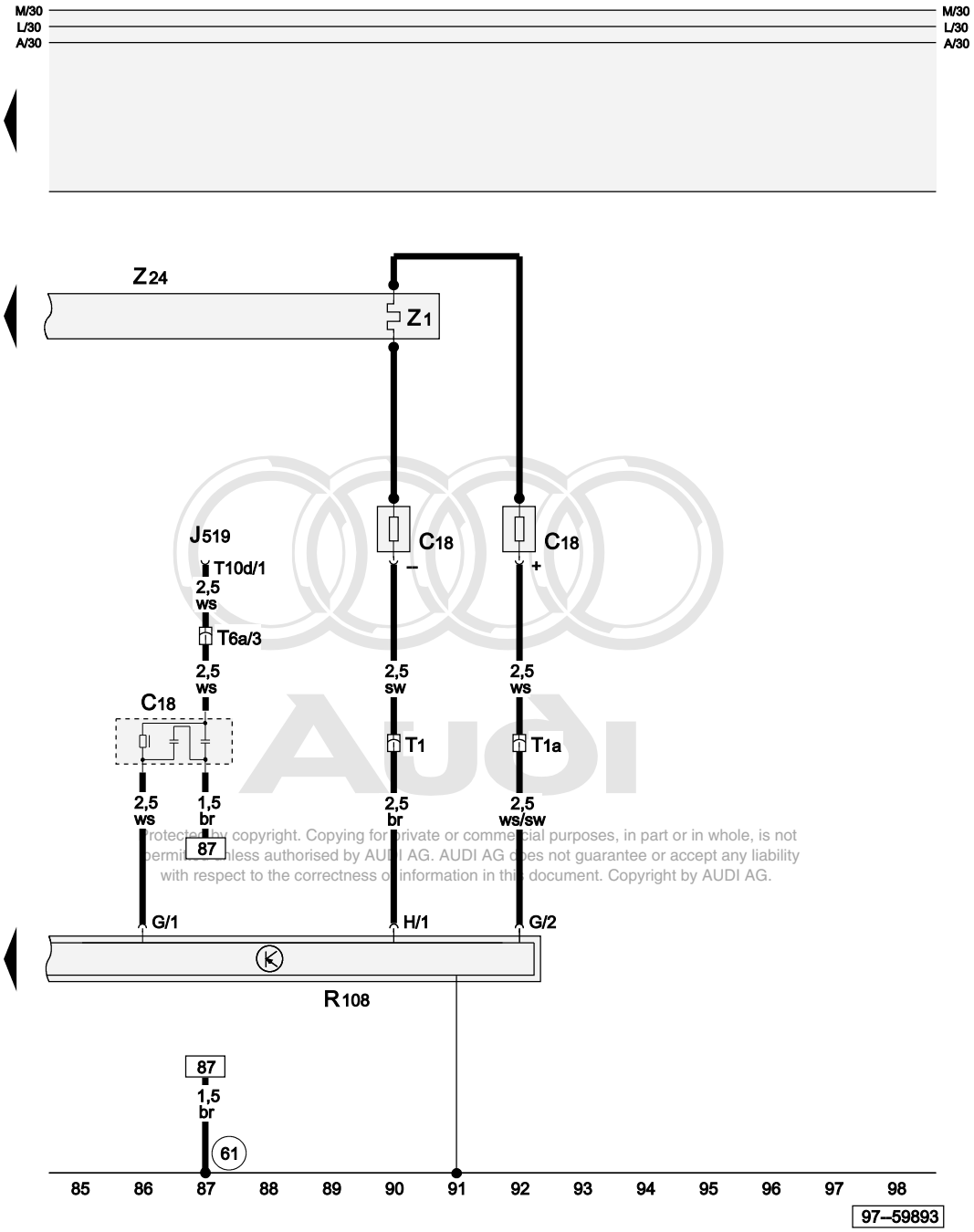


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Left aerial module, rear window aerial 1

J393	Convenience system central control unit
R	Radio
R1	Aerial connection
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Aerial module, left
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T4o	4-pin connector, near C-pillar right
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



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Left aerial module, heated rear window

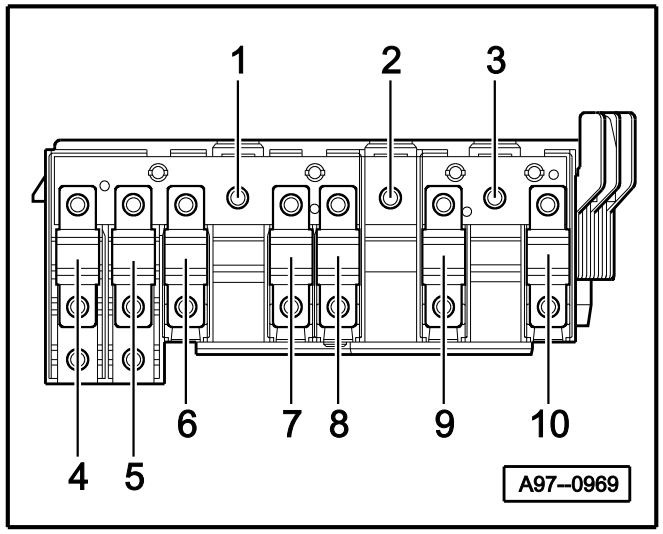
C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
T1	1-pin connector, black, in rear lid
T1a	1-pin connector, brown, in rear lid
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
(61)	Earth point, left C-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Provision for radio (not factory-fitted radios)

From model year 2004

Main fuse box, electronics box



♦ At electronics box, in engine compartment, front left

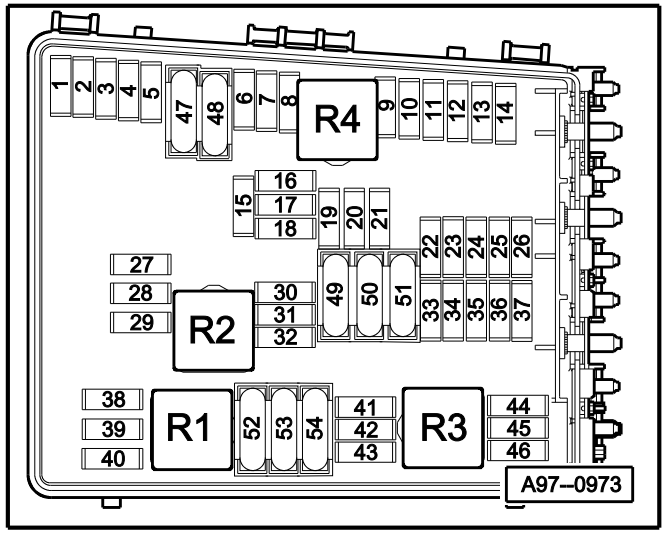
Main supply connection
2 - Screw connection M (terminal 30)

Note:

♦ *Fuses in main fuse box are designated as SA in the Current Flow Diagram.*

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Relay and fuse carrier, electronics box



- In engine compartment, front left

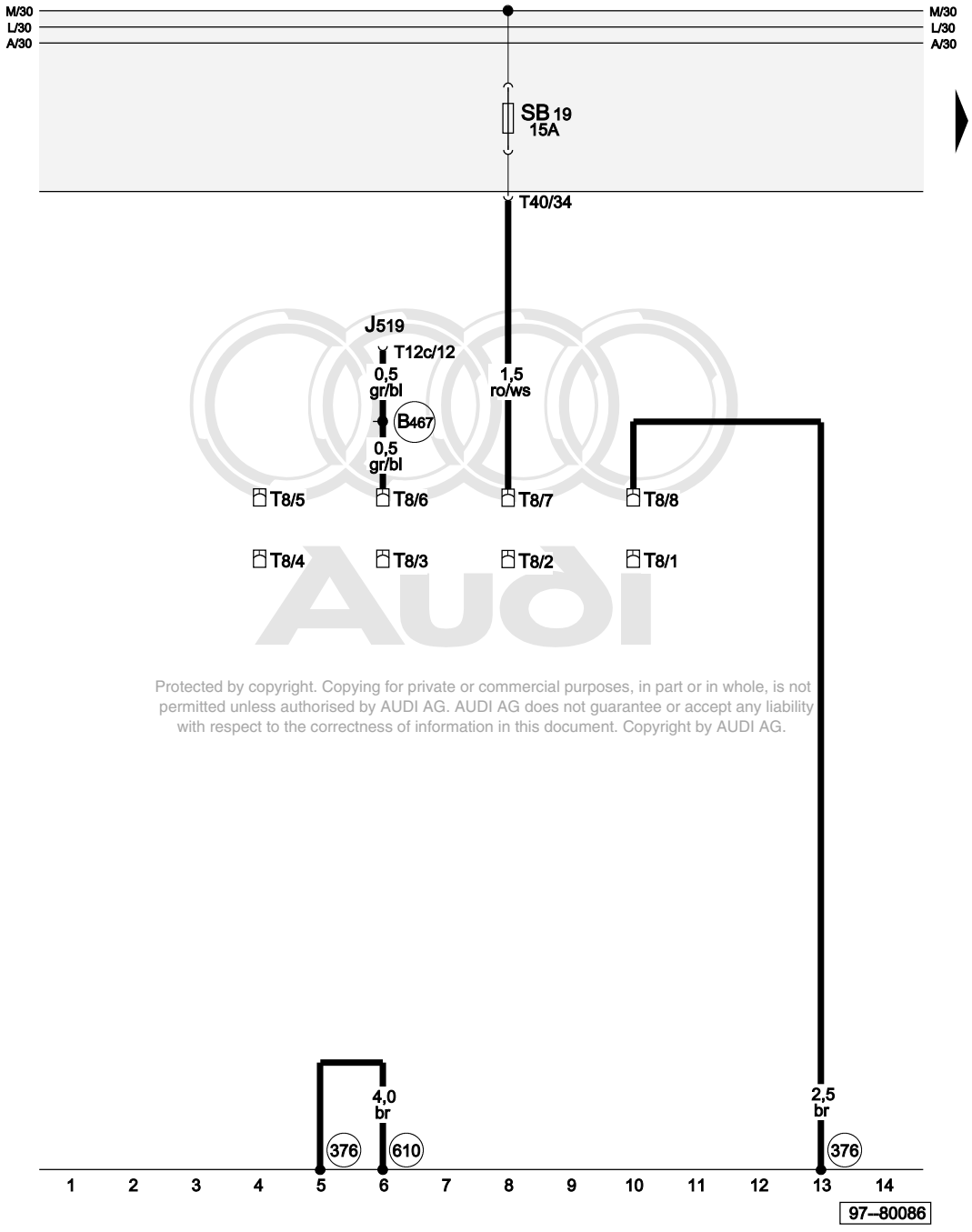
Fuse colours

15 A - blue

Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

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Battery, fuse on fuse box

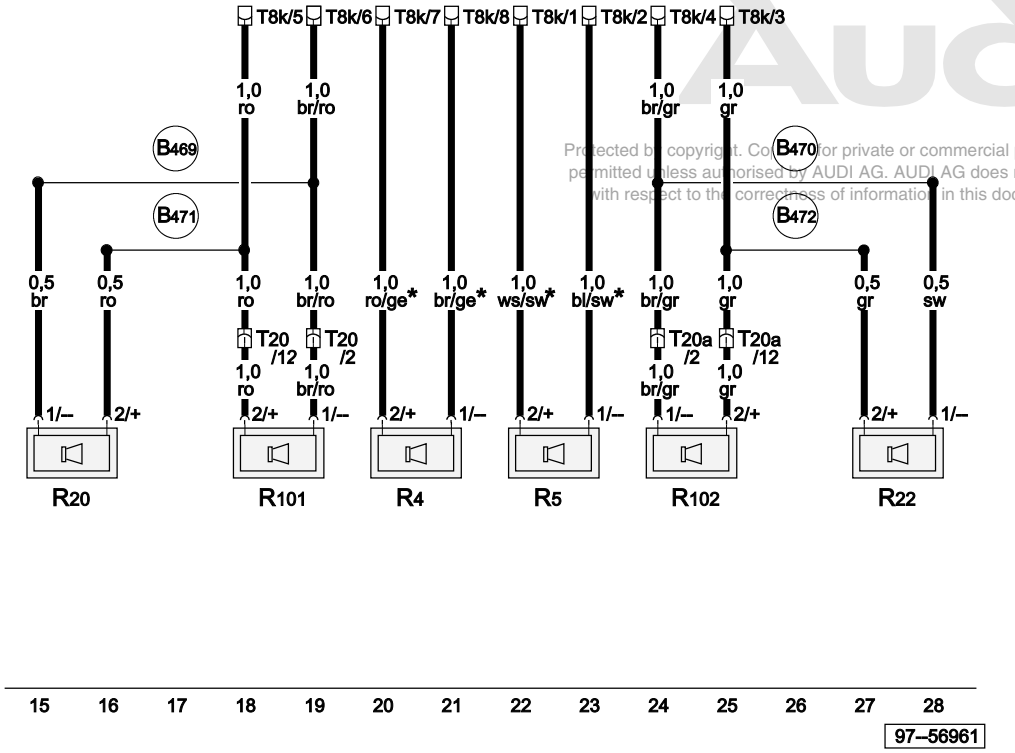
J519	Onboard power supply control unit
SB19	Fuse 19 on fuse box
T8	8-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), below centre console, front
B467	Connection 3, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Front and rear loudspeakers

R4	Loudspeaker, rear left
R5	Loudspeaker, rear right
R20	Treble loudspeaker, front left
R22	Treble loudspeaker, front right
R101	Mid-range/bass loudspeaker, front left
R102	Mid-range/bass loudspeaker, front right
T8k	8-pin connector, brown (connector B)
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B472	Connection 8, in main wiring harness
*	Depending on vehicle equipment (K8G with 8RL)



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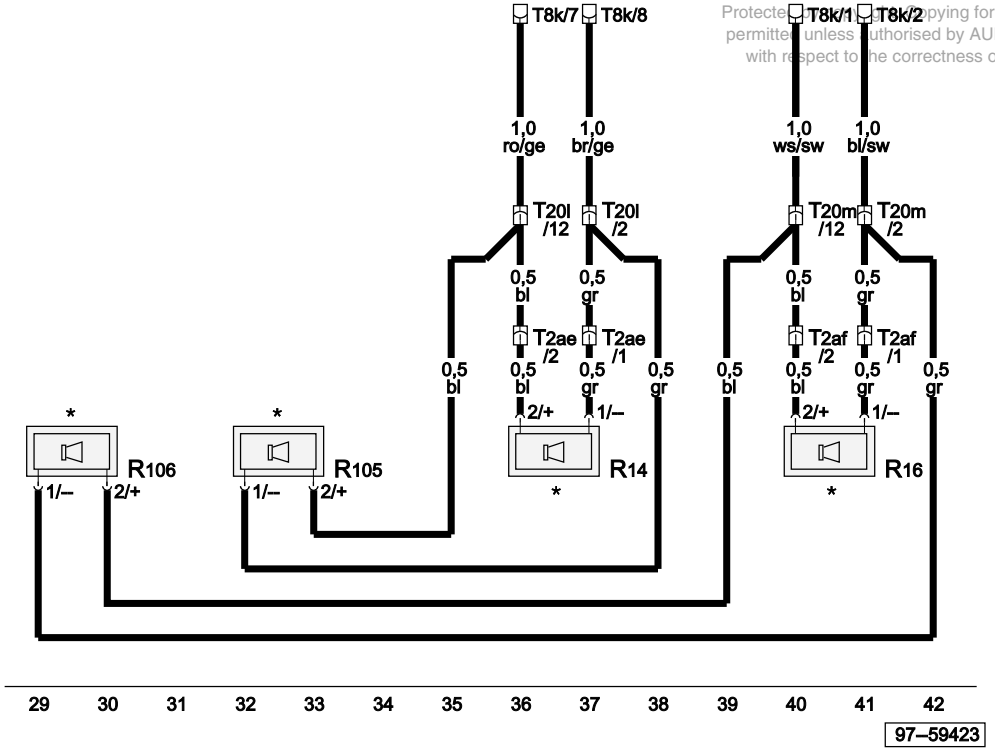
ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



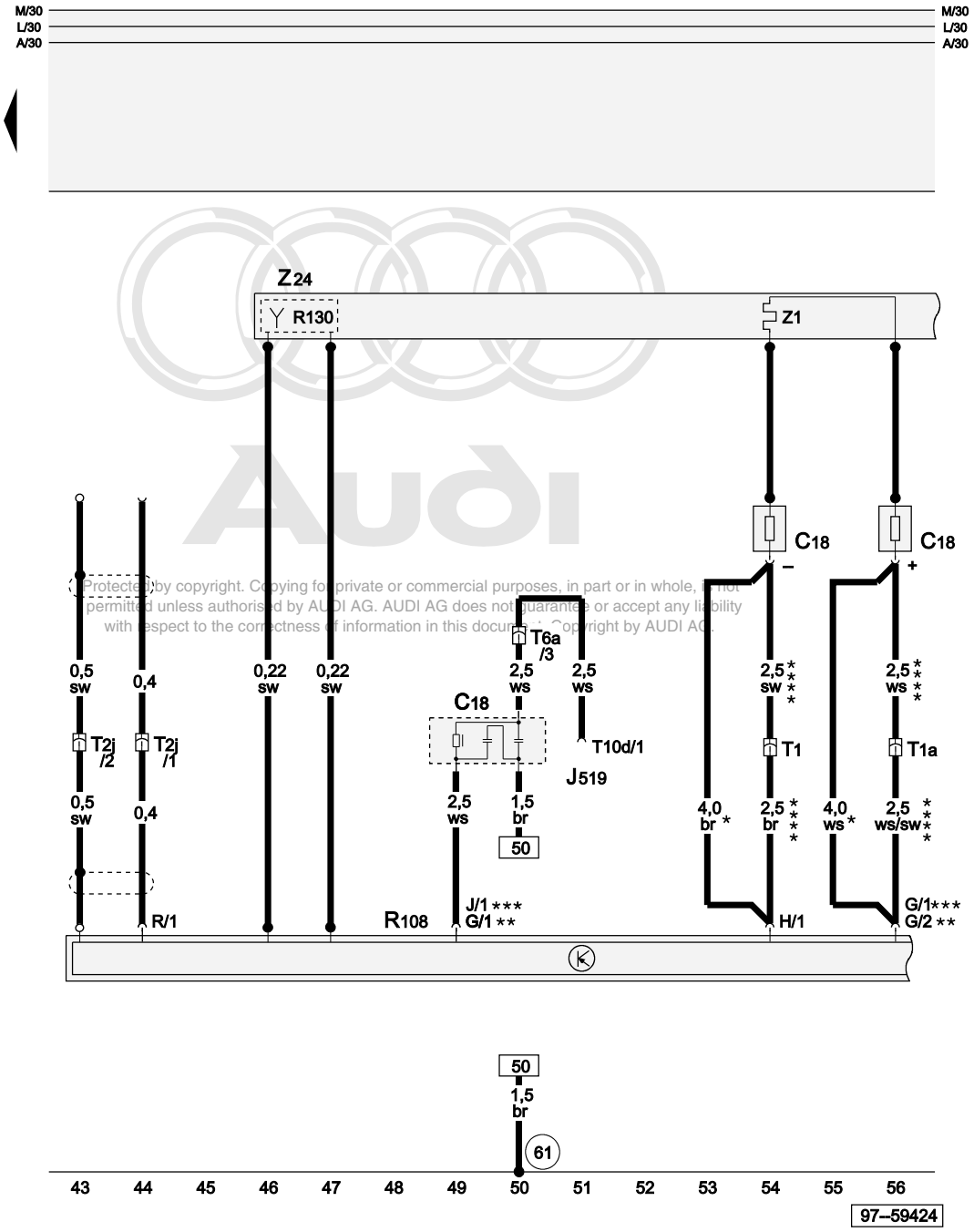
Rear loudspeakers

R14	Treble loudspeaker, rear left
R16	Treble loudspeaker, rear right
R105	Mid-range loudspeaker, rear left
R106	Mid-range loudspeaker, rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T8k	8-pin connector, brown (connector B)
T20l	20-pin connector, black, door, B pillar, left
T20m	20-pin connector, black, door, B pillar, right
*	Depending on vehicle equipment (K8R with 8RL)

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ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



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Left aerial module, rear window aerial 1

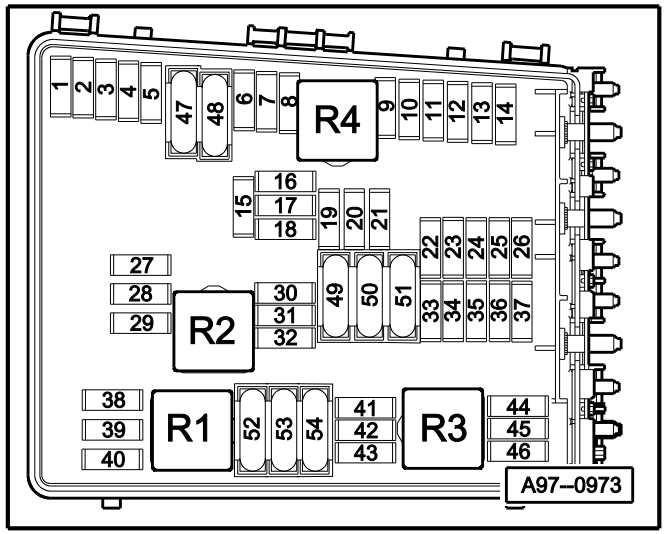
C18	Window aerial suppression filter
J519	Onboard power supply control unit
R108	Aerial module, left
R130	Rear window aerial 1
T1	Single connector, black, in rear lid
T1a	Single connector, brown, in rear lid
T2j	2-pin connector, near C pillar, right
T6a	6-pin connector, black, at C pillar, left
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
*	Applicable from model year 2005
**	Only on 3-door models
***	Only on 5-door models
****	As of model year 2005 no longer fitted

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Headlights with gas discharge (xenon) lamps and automatic headlight range control

From model year 2004

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

40 A - orange
30 A - green
15 A - blue

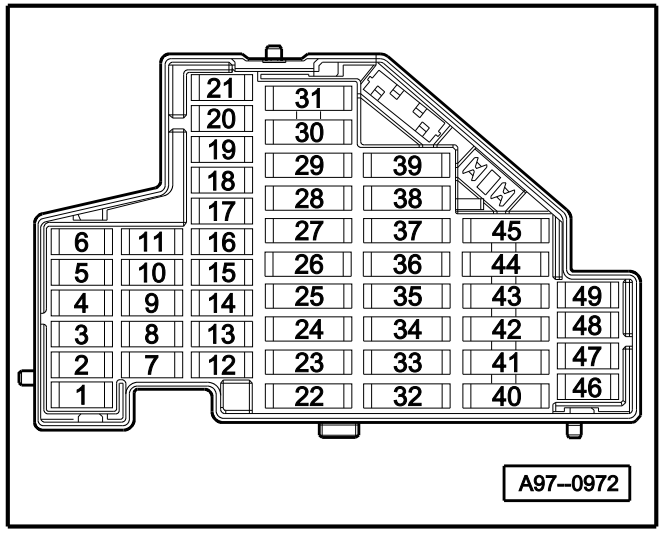
Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

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Fuse box



- Dash panel, driver's side

Fuse colours

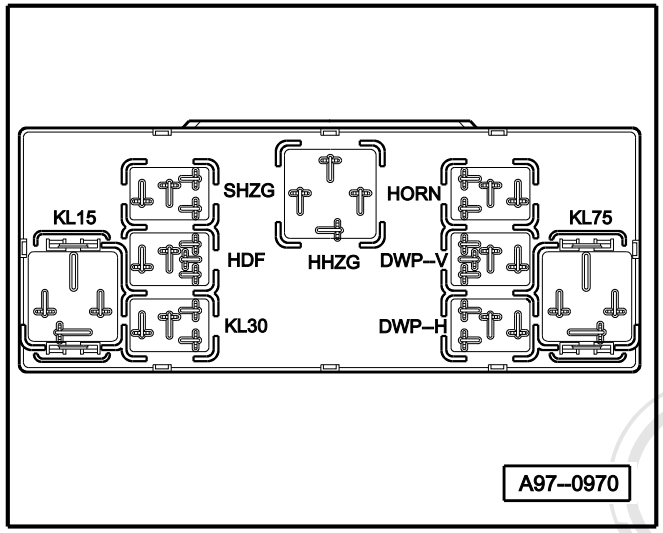
5 A - beige

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

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Onboard power supply control unit - J519



♦ Dash panel, driver's side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay -2- J681

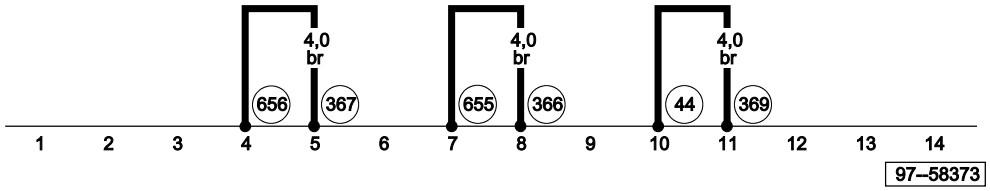
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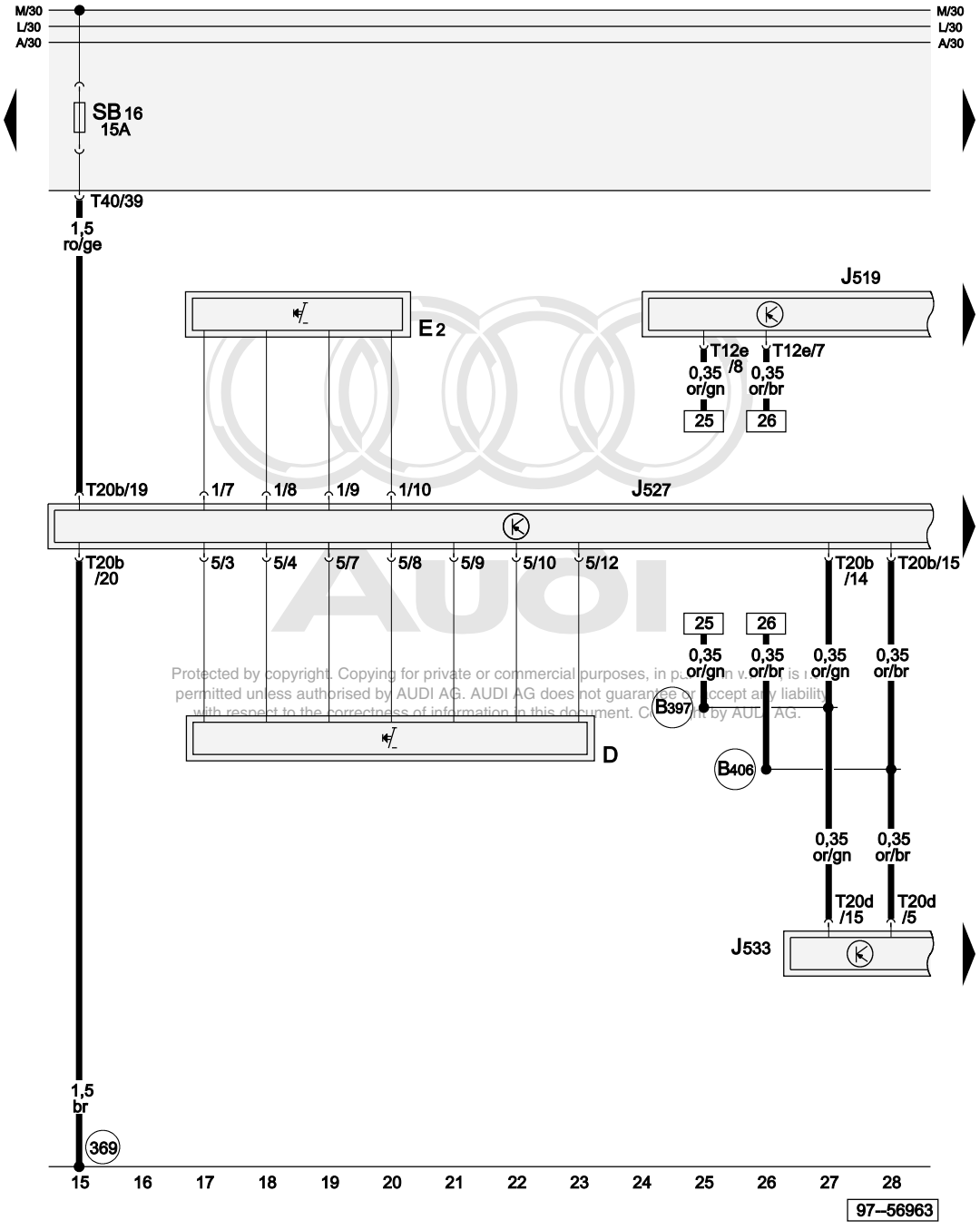
Earth points, earth connections

- 44 Earth point, lower part of left A pillar
- 366 Earth connection -1-, in main wiring harness
- 367 Earth connection -2-, in main wiring harness
- 369 Earth connection -4-, in main wiring harness
- 655 Earth point, on left headlight
- 656 Earth point, on right headlight

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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

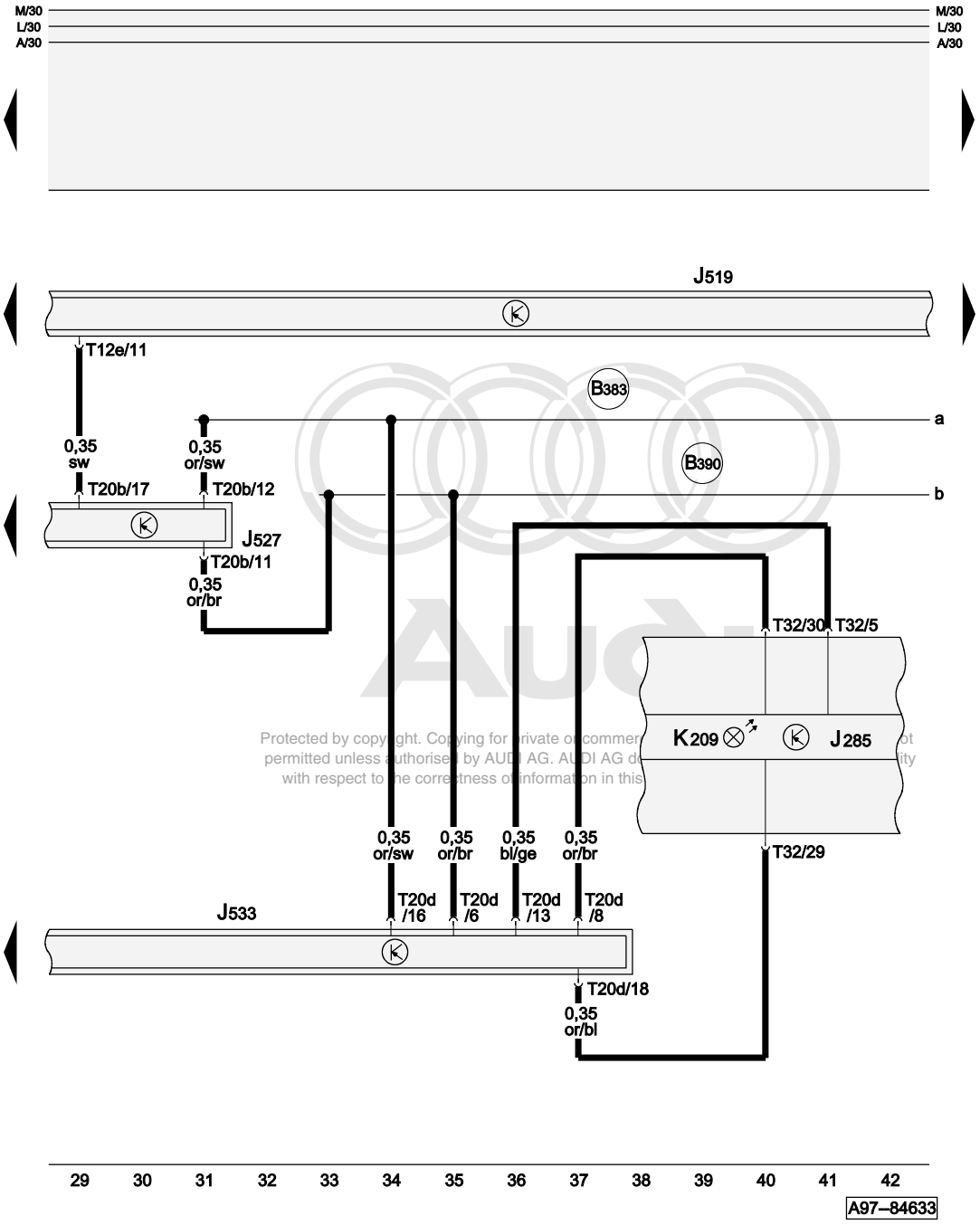


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rs = pink

Turn signal switch, ignition/starter switch

D	Ignition/starter switch
E2	Turn signal switch
J519	Onboard power supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB16	Fuse 16 on fuse box
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

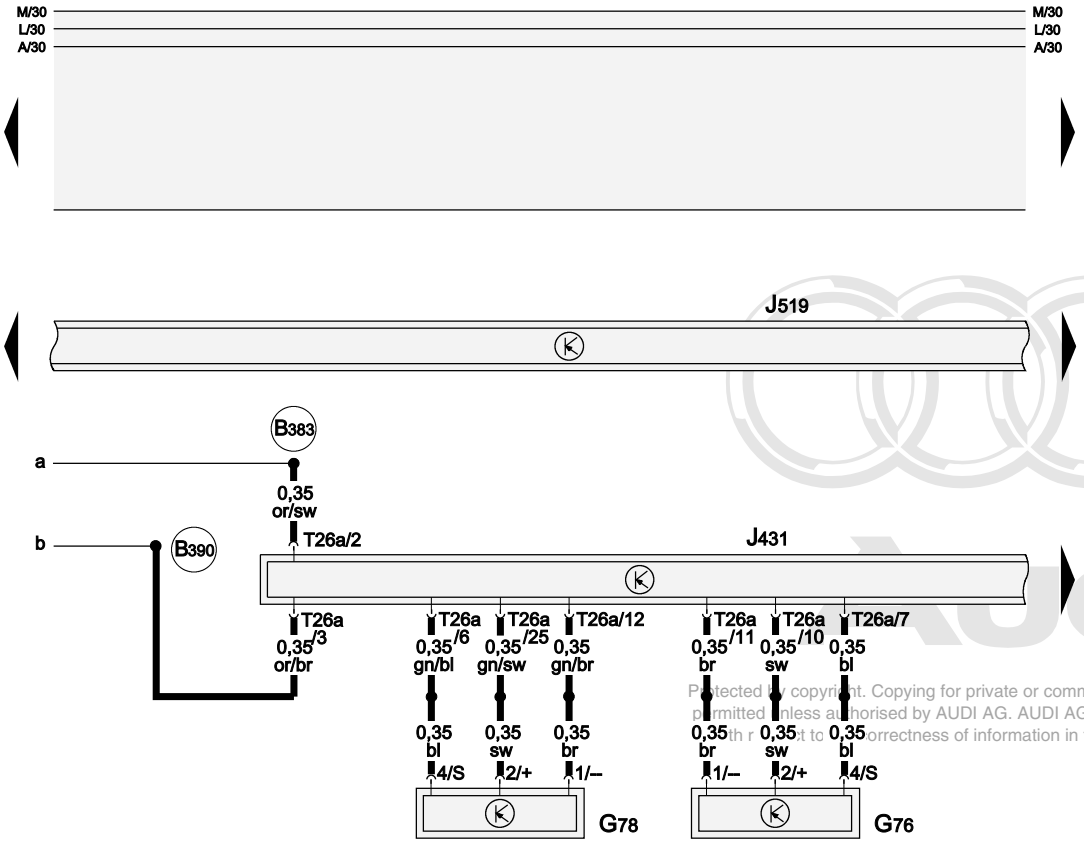


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Control unit with display in dash panel insert

J285	Control unit with display in dash panel insert
J519	Onboard power supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K209	Automatic control of lights warning lamp
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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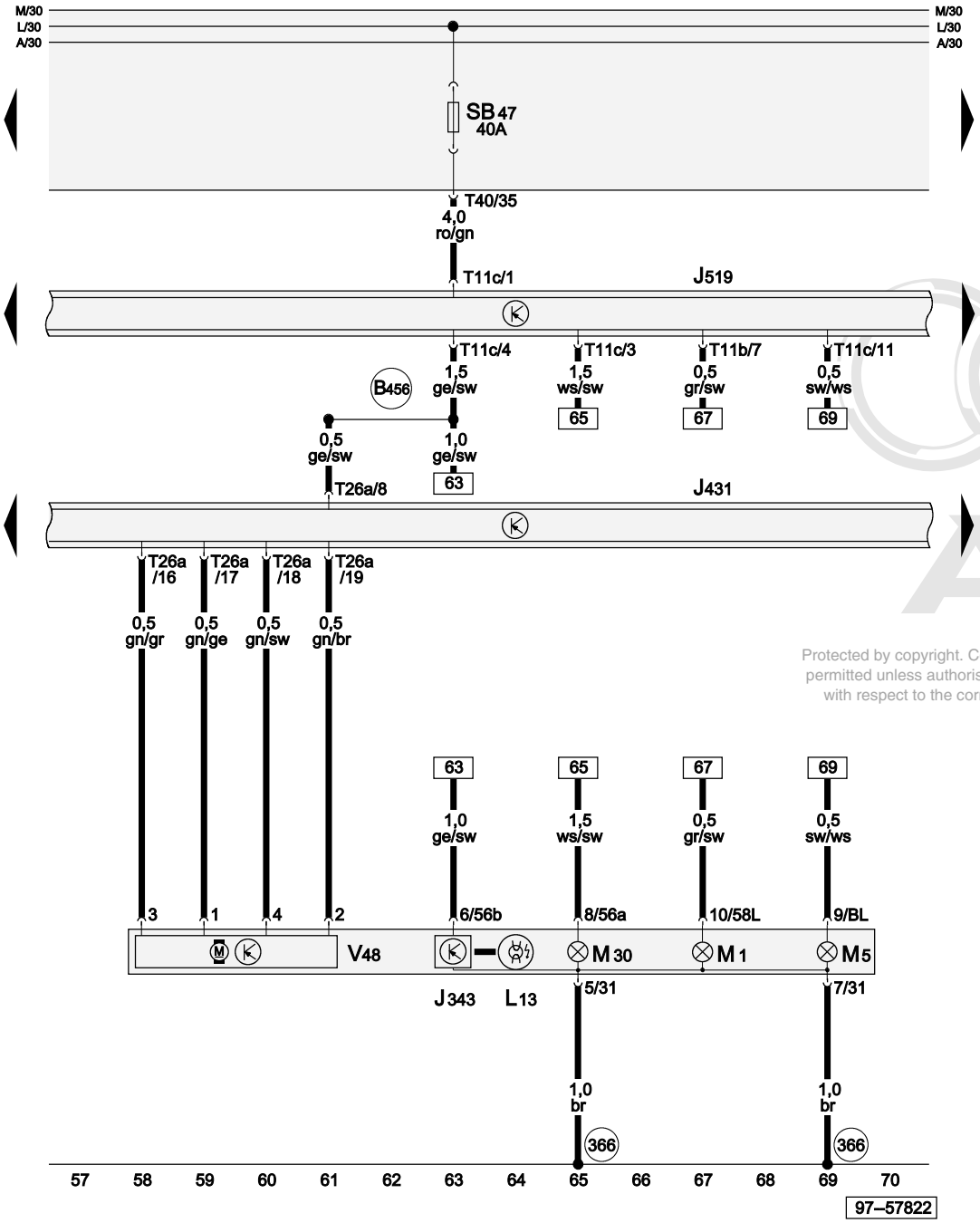


Vehicle level senders

G76	Vehicle level sender, rear left
G78	Vehicle level sender, front left
J431	Headlight range control, control unit
J519	Onboard power supply control unit
T26a	26-pin connector, black (connector A)
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness

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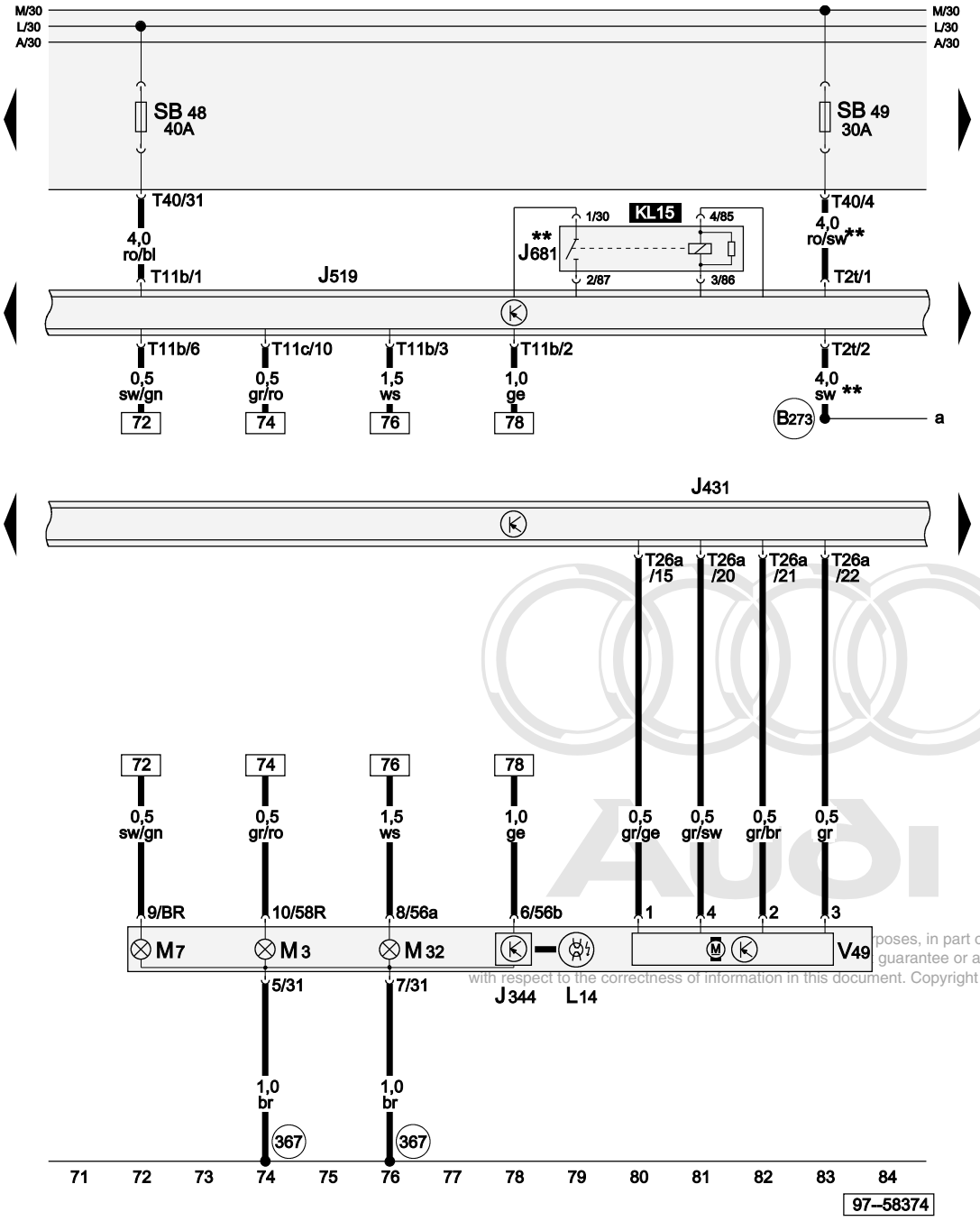


Left headlight

J343	Left gas discharge lamp control unit
J431	Headlight range control, control unit
J519	Onboard power supply control unit
L13	Gas discharge lamp, left
M1	Side light bulb, left
M5	Turn signal bulb, front left
M30	Main beam bulb, left
SB47	Fuse 47 on fuse box
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T26a	26-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
V48	Headlight range control motor, left
366	Earth connection 1, in main wiring harness
B456	Connection (56b), in main wiring harness

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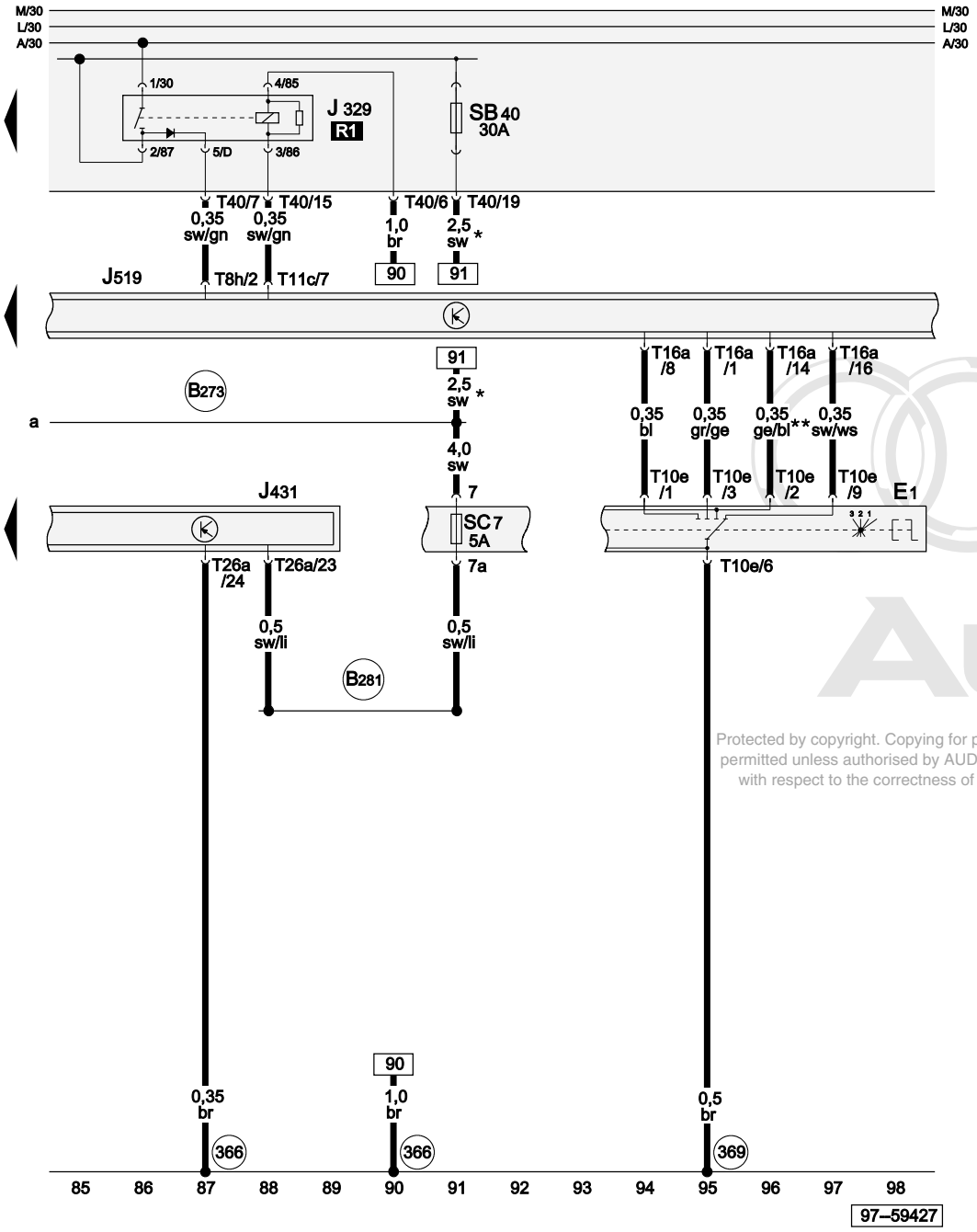


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Right headlight

J344	Right gas discharge lamp control unit
J431	Headlight range control, control unit
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay 2
L14	Gas discharge lamp, right
M3	Side light bulb, right
M7	Turn signal bulb, front right
M32	Main beam bulb, right
SB48	Fuse 48 on fuse box
SB49	Fuse 49 on fuse box
T2t	2-pin connector, black (connector L)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T26a	26-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
V49	Headlight range control motor, right
367	Earth connection 2, in main wiring harness
B273	Positive (+) connection (15), in main wiring harness
**	Only applies to models with battery in luggage compartment

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink



Light switch, terminal 15 voltage supply relay

E1	Light switch
J329	Terminal 15 voltage supply relay
J431	Headlight range control, control unit
J519	Onboard power supply control unit
SB40	Fuse 40 on fuse box
SC7	Fuse 7 on fuse box
T8h	8-pin connector, black (connector F)
T10e	10-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T16a	16-pin connector, black (connector E)
T26a	26-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B273	Positive (+) connection (15), in main wiring harness
B281	Positive (+) connection 5 (15a), in main wiring harness
*	Only applies to models with battery in engine compartment
**	Only applies to models with automatic headlight switching with coming home function ⇒ applicable Current Flow Diagram

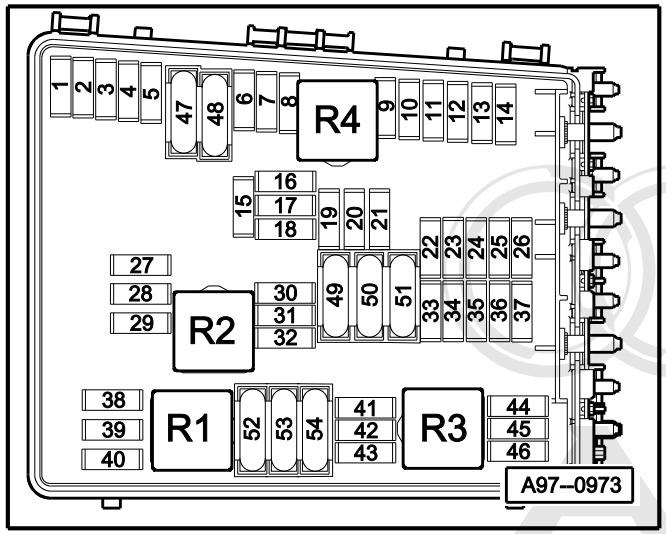
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Provision for mobile phone

From model year 2004

Relay and fuse carrier, electronics box



♦ In engine compartment, front left

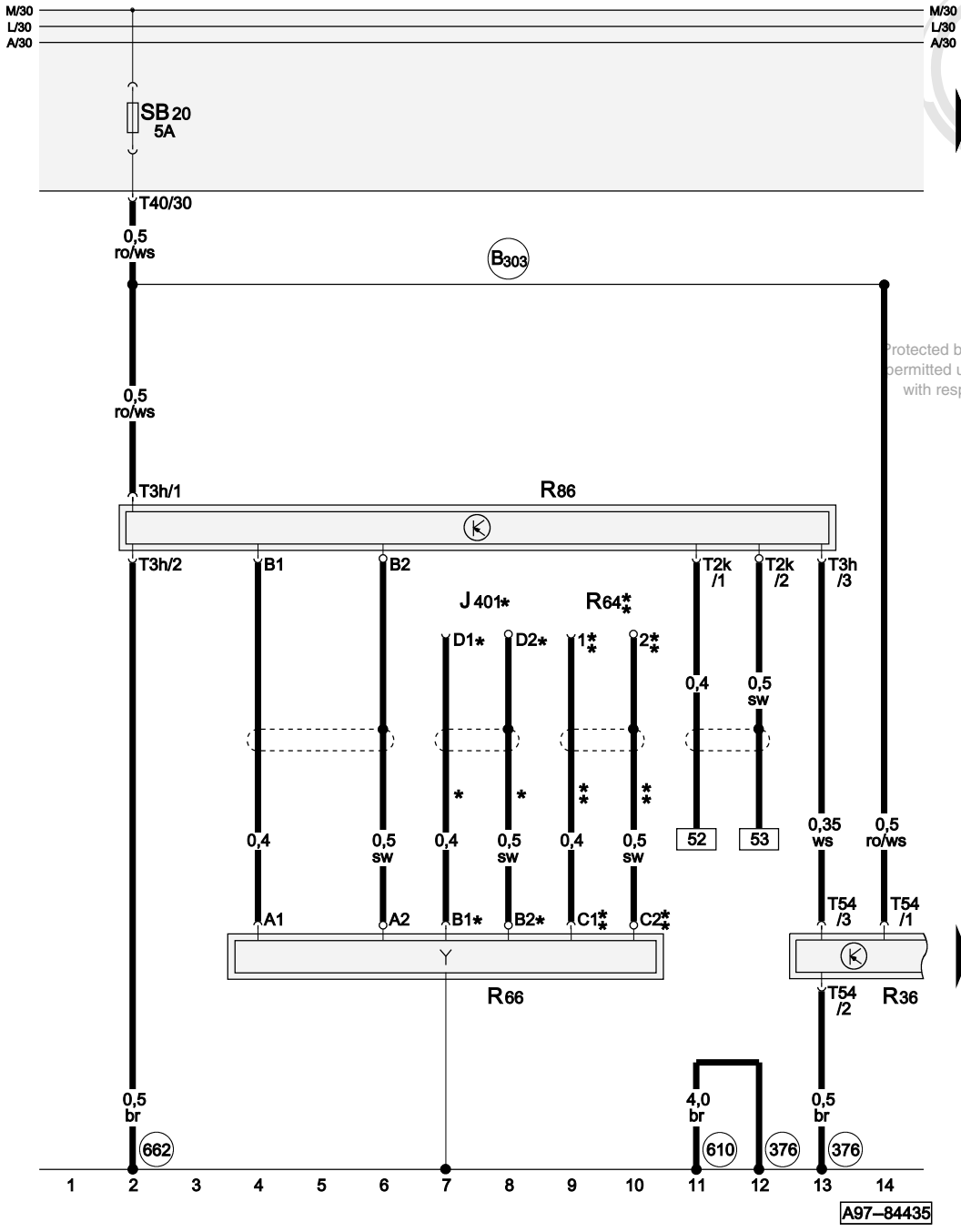
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Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

♦ *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

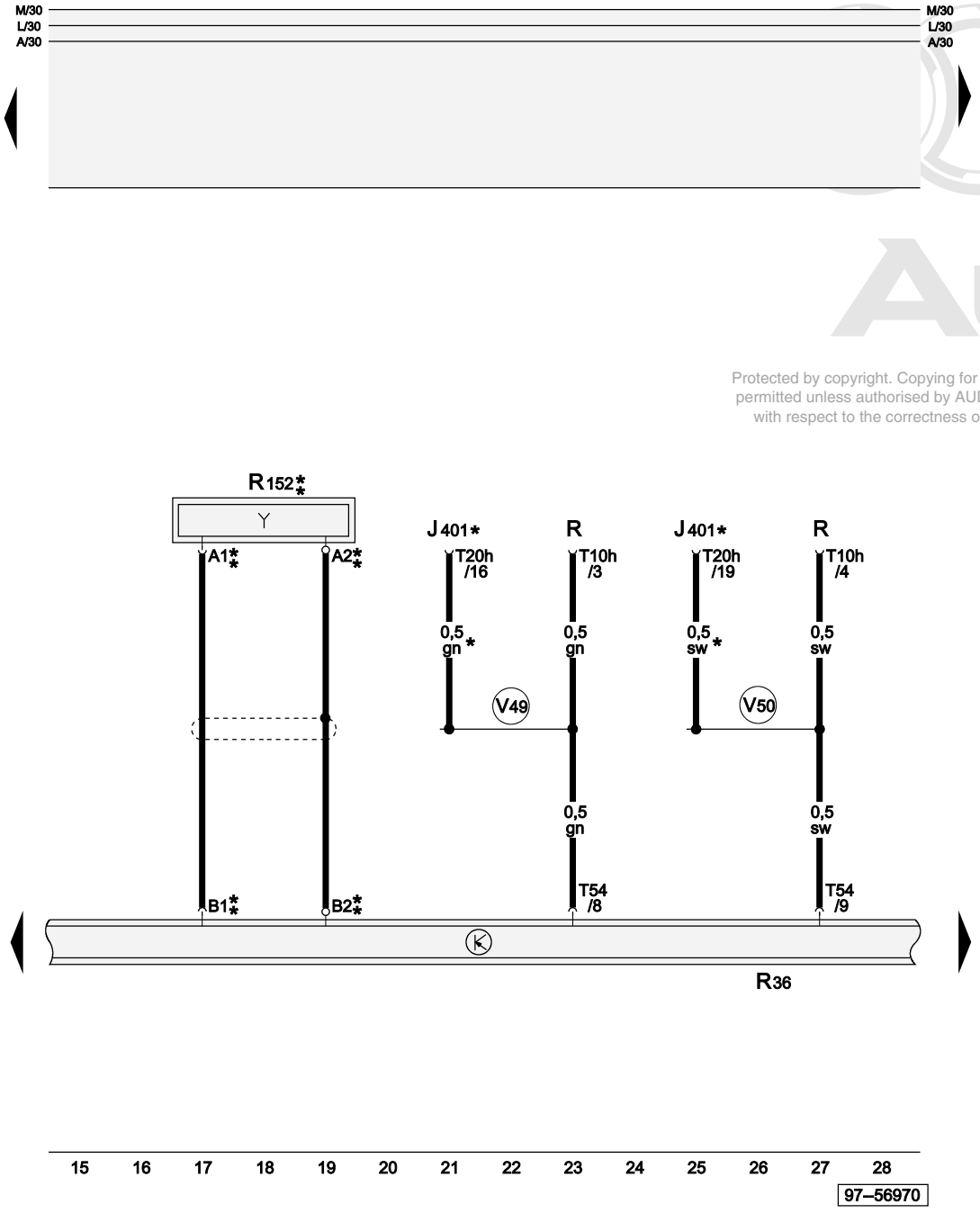


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li = purple
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or = orange
rs = pink

Telephone transmitter and receiver unit, telephone/navigation (GPS)/auxiliary heater aerial

J401	Navigation system with CD drive control unit
R36	Telephone transmitter and receiver unit
R64	Auxiliary heating radio controlled receiver
R66	Telephone/navigation (GPS)/auxiliary heater aerial
R86	Aerial amplifier, mobile telephone
SB20	Fuse -20- on fuse box
T2k	2-pin connector, yellow (connector C)
T3h	3-pin connector, black (connector A)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
T54	54-pin connector, black (connector A)
376	Earth connection -11-, in main wiring harness
610	Earth point (audio), below centre console, front
662	Earth point, rear left side panel
B303	Positive (+) connection -7- (30), in main wiring harness
*	Only applies to models with navigation system
**	Only applies to models with auxiliary heater

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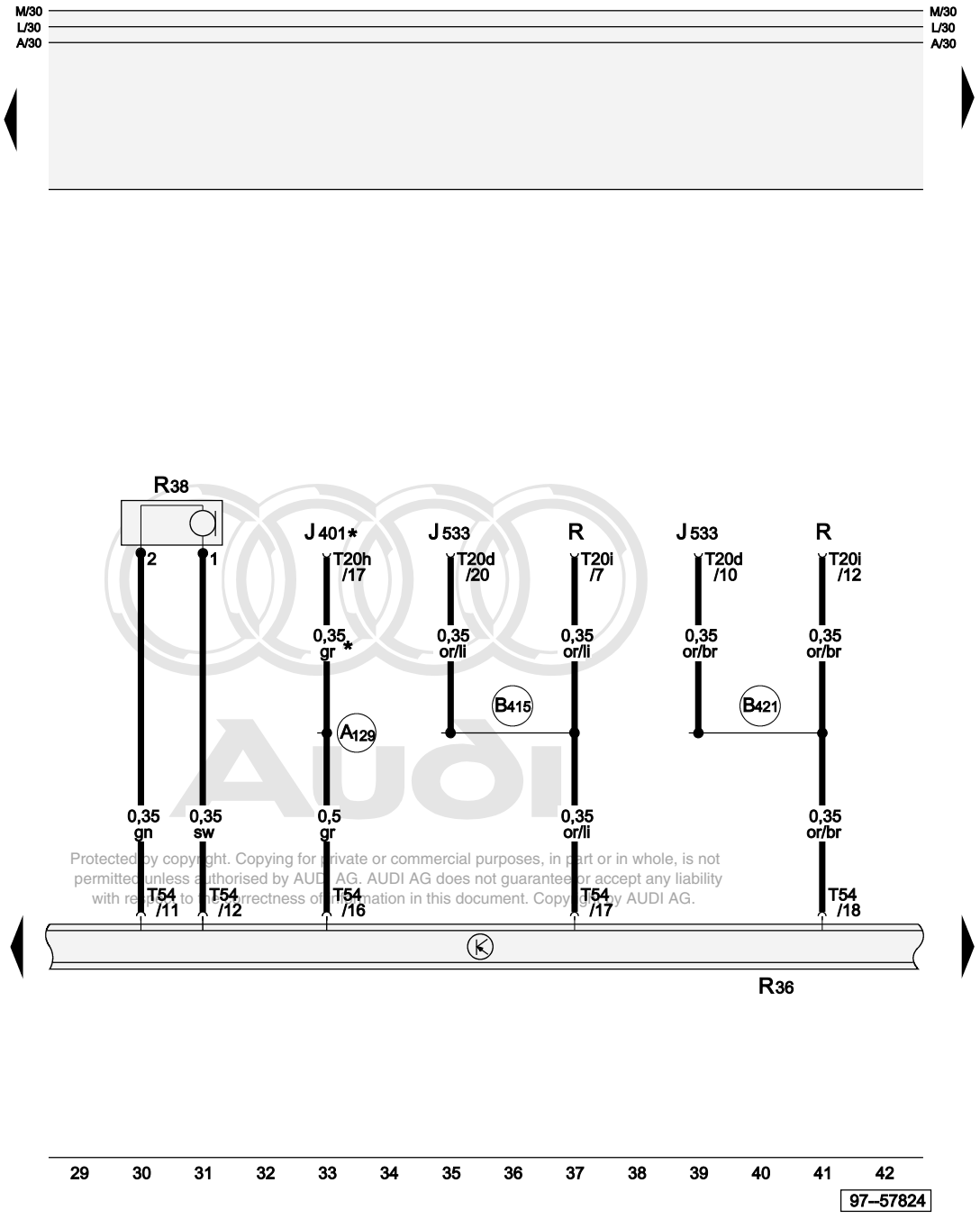


Aerial for Bluetooth

J401	Navigation system with CD drive control unit
R	Radio
R36	Telephone transmitter and receiver unit
R152	Aerial for Bluetooth
T10h	10-pin connector, red (connector D)
T20h	20-pin connector, black (connector C)
T54	54-pin connector, black (connector A)
V49	Connection (low frequency, NF +), in communication wiring harness
V50	Connection (low frequency, NF -), in communication wiring harness
*	Only applies to models with navigation system
**	Only applies to models with aerial for Bluetooth

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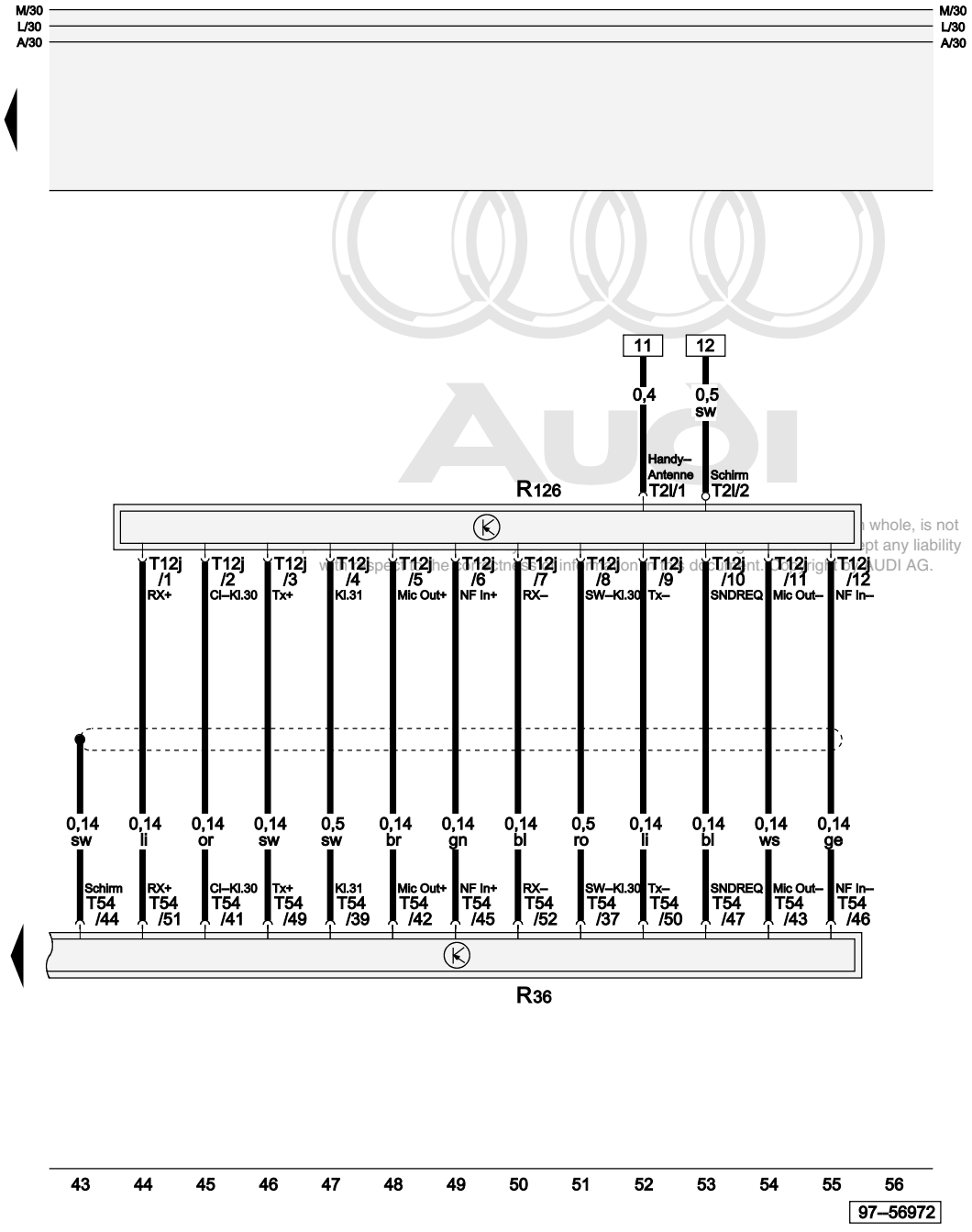


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Telephone microphone

J401	Navigation system with CD drive control unit
J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
R38	Telephone microphone
T20d	20-pin connector, yellow (connector A)
T20h	20-pin connector, black (connector C)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection -1- (infotainment CAN bus, high), in main wiring harness
B421	Connection -1- (infotainment CAN bus, low), in main wiring harness
*	Only applies to models with navigation system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Telephone bracket

R36	Telephone transmitter and receiver unit
R126	Telephone bracket
T2l	2-pin connector, yellow (connector B)
T12j	12-pin connector, brown (connector A)
T54	54-pin connector, black (connector A)

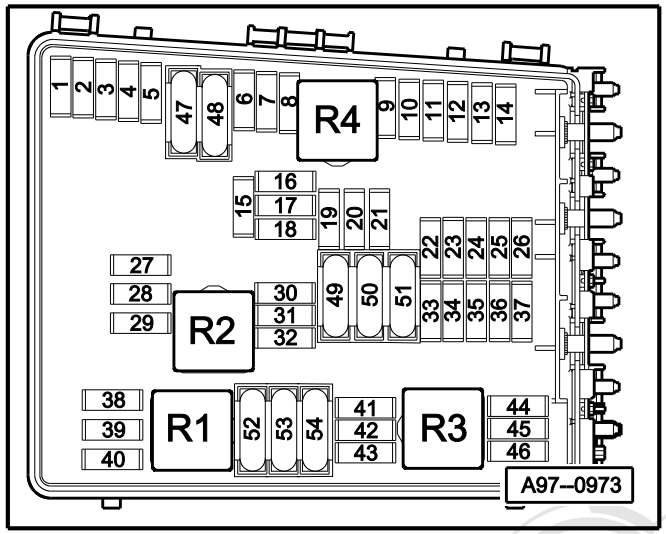
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ge	=	yellow
or	=	orange
rs	=	pink

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Headlights (with coming home function)

From model year 2004

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

30 A - green

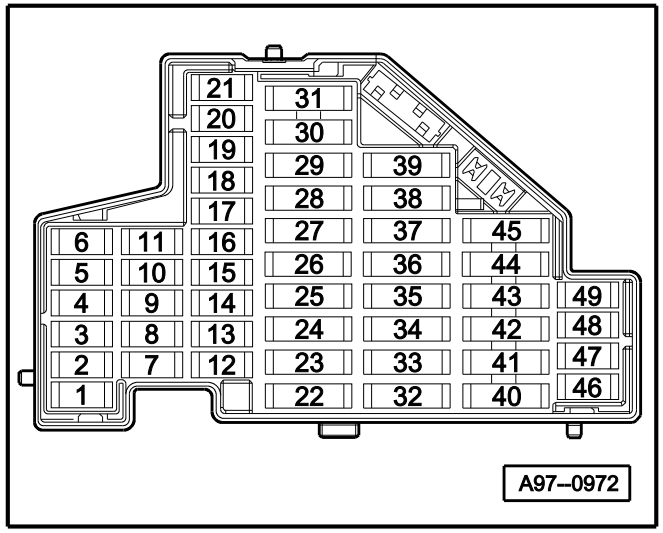
Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

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Fuse box



- Dash panel, driver's side

Fuse colours

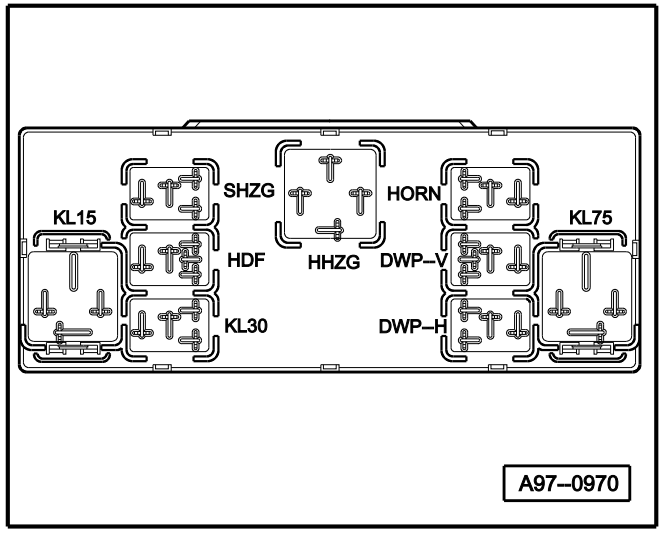
10 A - red

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

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Onboard power supply control unit - J519



♦ Dash panel, driver's side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay -2- - J681

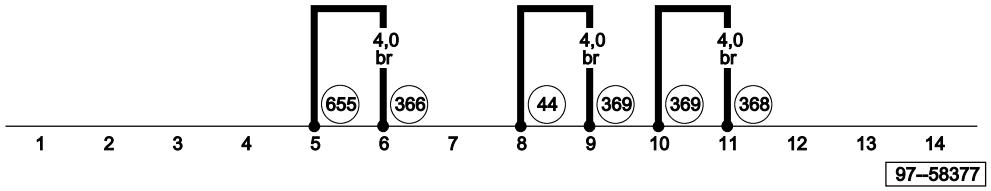
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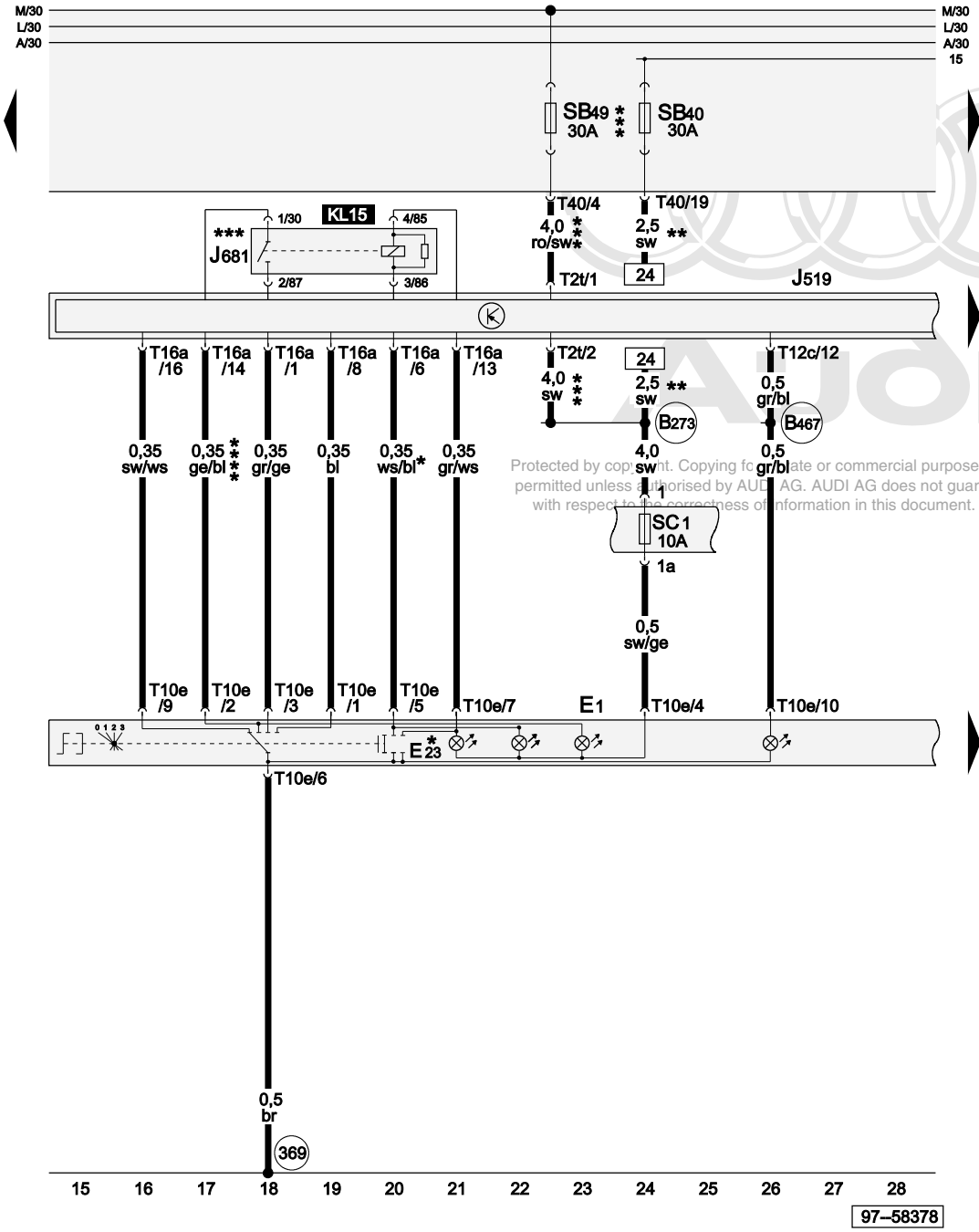
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Earth points, earth connections

- 44 Earth point, lower part of left A pillar
- 366 Earth connection -1-, in main wiring harness
- 368 Earth connection -3-, in main wiring harness
- 369 Earth connection -4-, in main wiring harness
- 655 Earth point, on left headlight



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

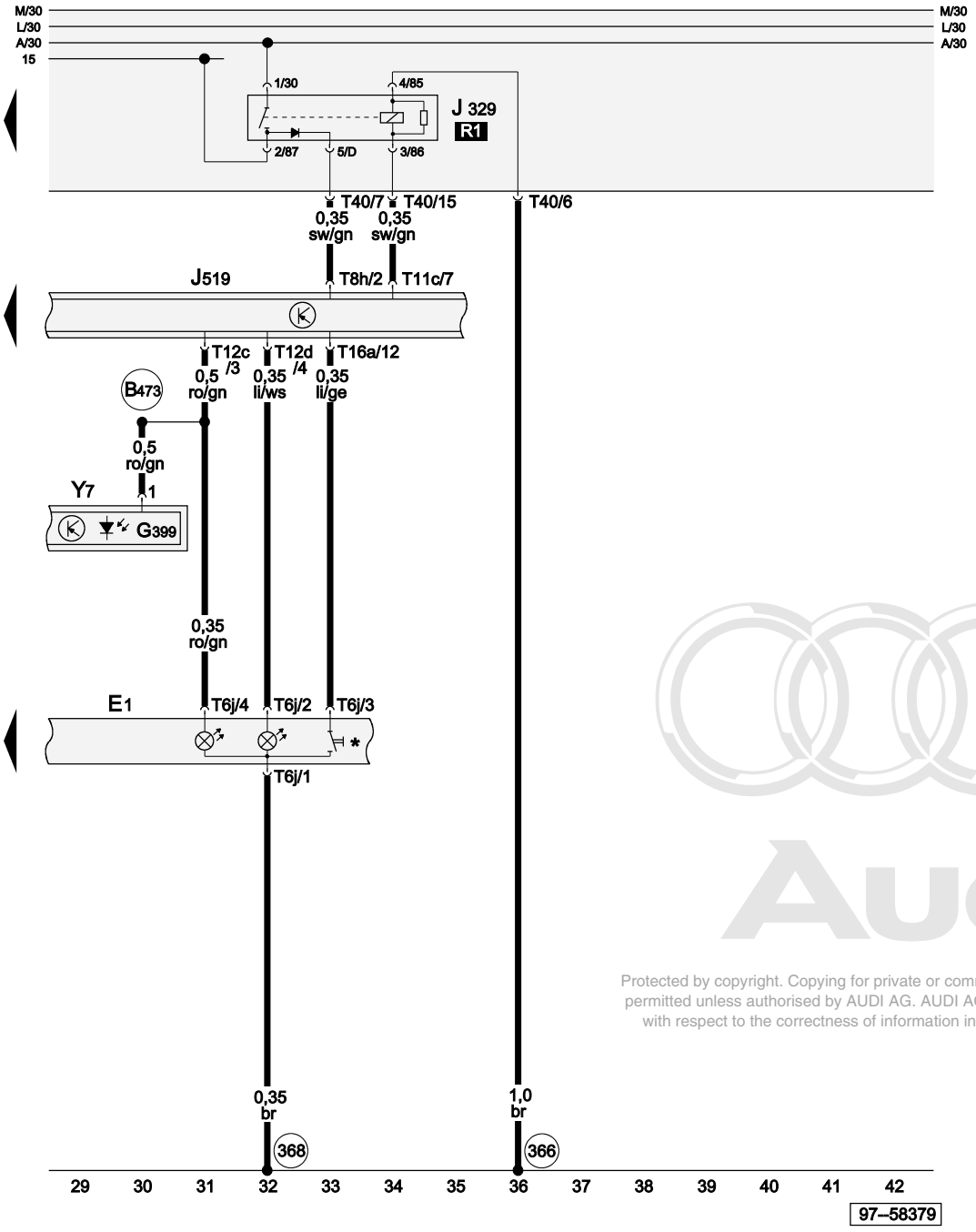


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Lighting switch, fuse on fuse box

E1	Lighting switch
E23	Front and rear fog light switch
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay -2-
SB40	Fuse -40- on fuse box
SB49	Fuse -49- on fuse box
SC1	Fuse -1- on fuse box
T2t	2-pin connector, black (connector L)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
369	Earth connection -4-, in main wiring harness
B273	Positive (+) connection (15), in main wiring harness
B467	Connection -3-, in main wiring harness
*	Only applies to models with front fog lights
**	Only applies to models with battery in engine compartment
***	Only applies to models with battery in luggage compartment
****	Only applies to models with automatic headlight switching

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Lighting switch, terminal 15 voltage supply relay

E1	Lighting switch
G399	Light sensor
J329	Terminal 15 voltage supply relay
J519	Onboard power supply control unit
T6j	6-pin connector, black (connector C)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
Y7	Automatic anti-dazzle interior mirror
366	Earth connection -1-, in main wiring harness
368	Earth connection -3-, in main wiring harness
B473	Connection -9-, in main wiring harness
*	Coming home function switch

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Sliding/tilting sunroof

from model year 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

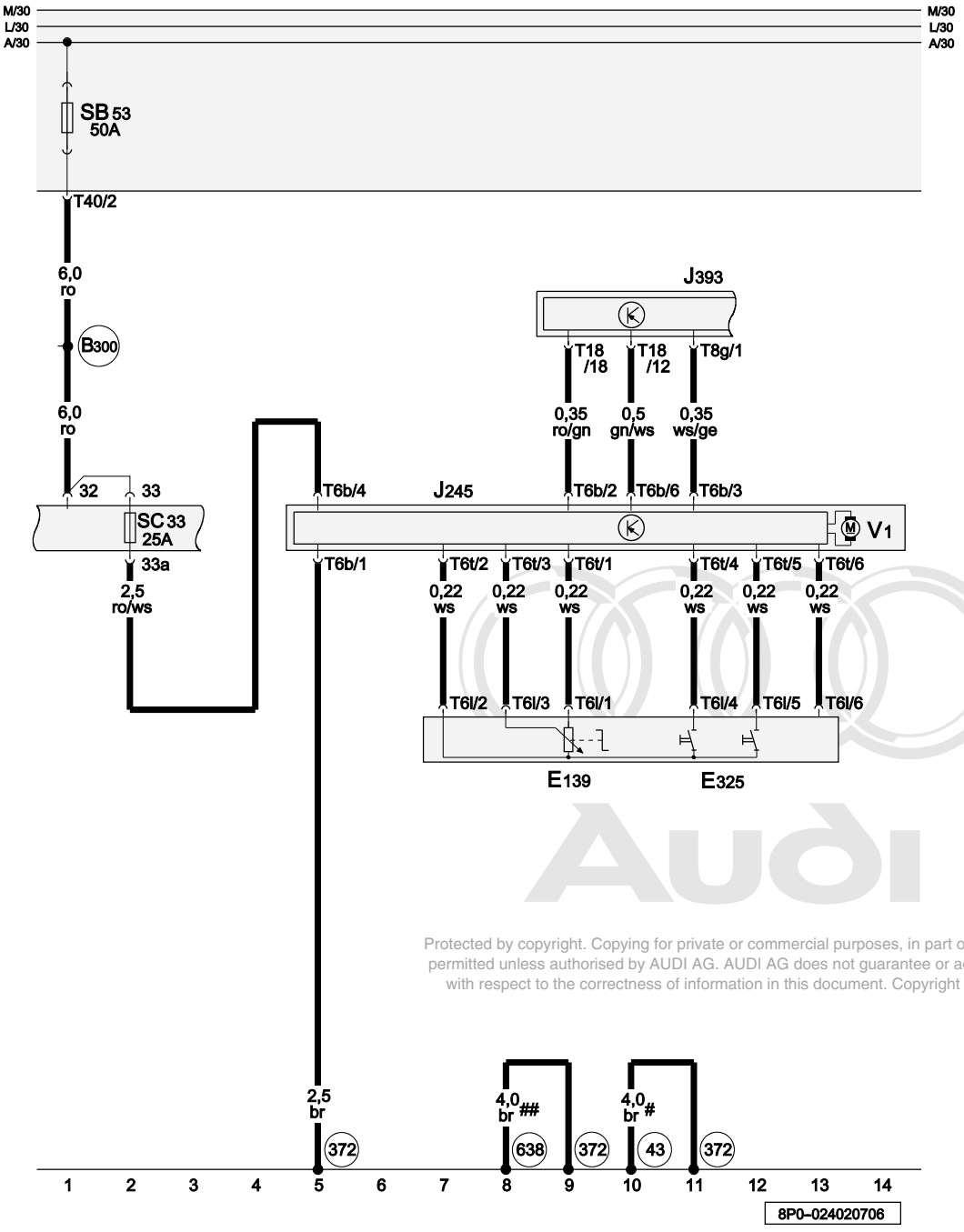
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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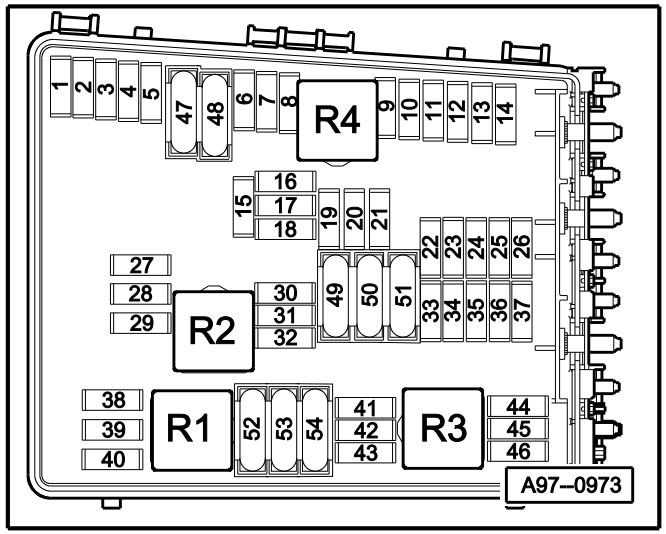
Sliding sunroof motor, sliding sunroof adjustment control unit

E139	Sliding sunroof adjustment regulator
E325	Sunroof button
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
SB53	Fuse 53 on fuse holder
SC33	Fuse 33 on fuse holder
T6b	6-pin connector, blue (connector A)
T6l	6-pin connector, black, sunroof, near interior light
T6t	6-pin connector, black (connector B)
T8g	8-pin connector, black (connector B)
T18	18-pin connector, brown (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V1	Sliding sunroof motor
43	Earth point, lower part of right A-pillar
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B300	Positive connection 4 (30), in main wiring harness
#	is dropped, from model year 2005
##	applicable from model year 2005

Automatic anti-dazzle interior mirror (without coming home function)

From model year 2004

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

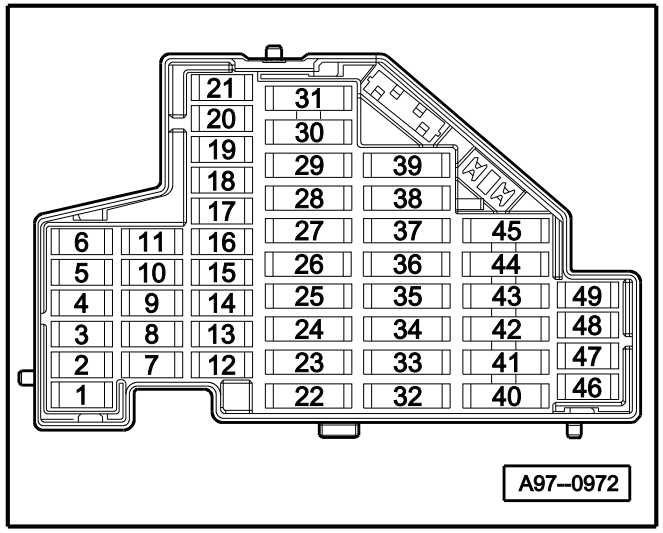
Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

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Fuse box



- Dash panel, driver's side

Fuse colours

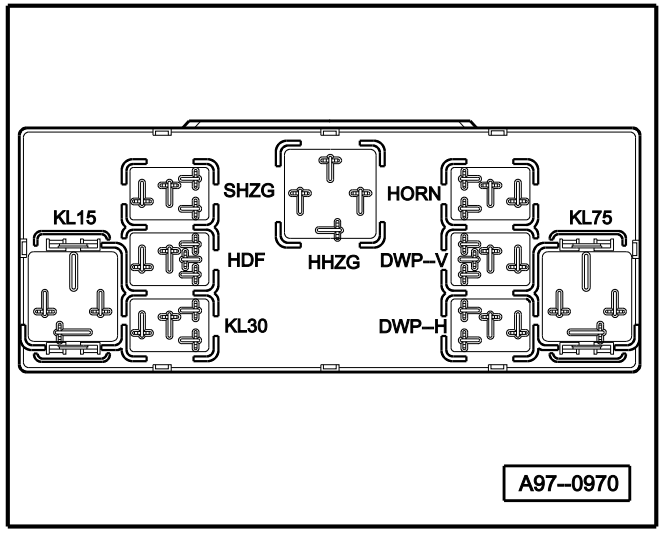
40 A - orange
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

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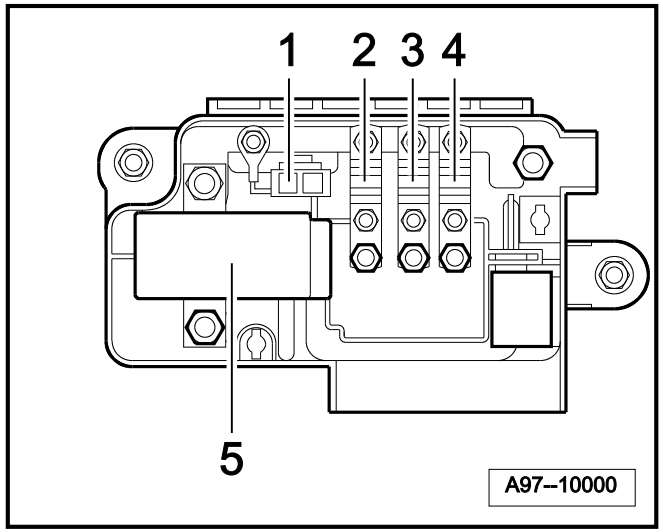
Onboard power supply control unit - J519



- Dash panel, driver's side, bottom left

Position of relays
KL15 - Terminal 15 voltage supply relay -2- J681

Main fuse box



- In luggage compartment, rear right

Position of relays

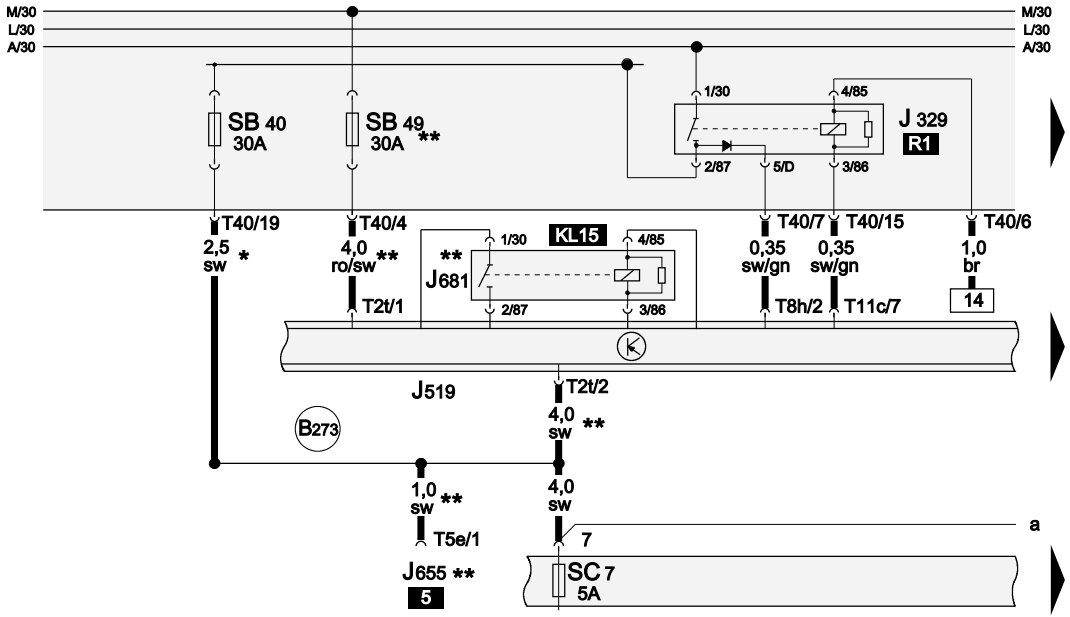
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5 - Battery cut-off relay - J655

Note:

- *Fuses in main fuse box are designated as SD in the Current Flow Diagram.*

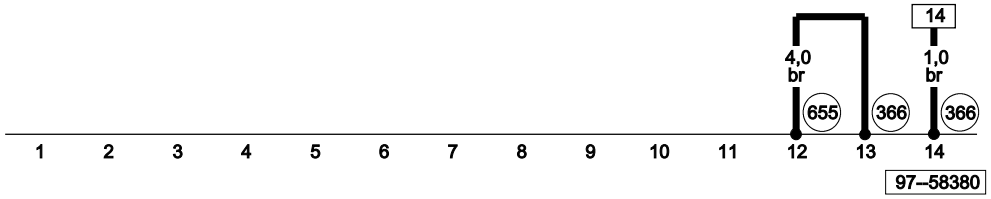
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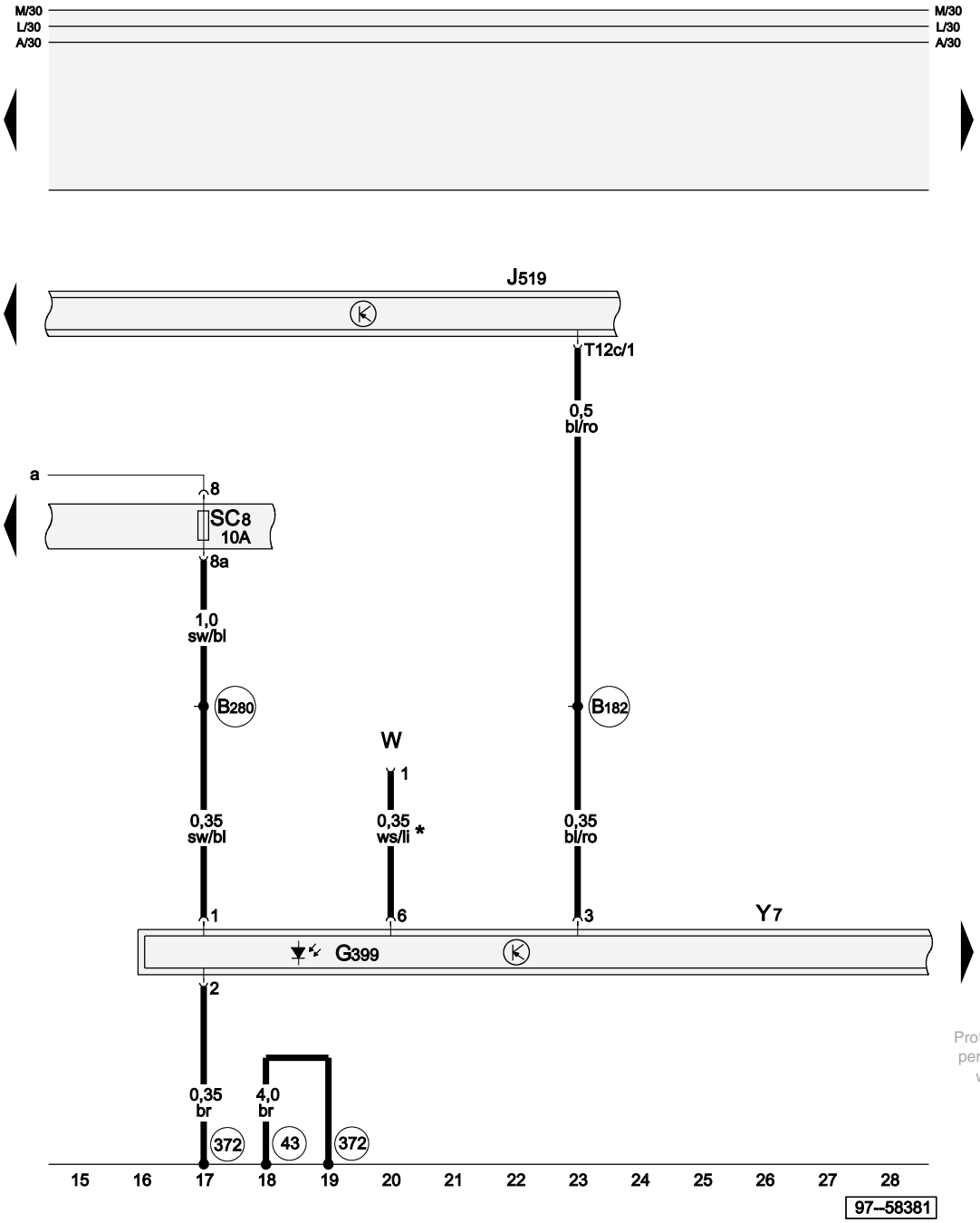
Light sensor, automatic anti-dazzle interior mirror

J329	Terminal 15 voltage supply relay
J519	Onboard power supply control unit
J655	Battery cut-off relay
J681	Terminal 15 voltage supply relay -2-
SB40	Fuse -40- on fuse box
SB49	Fuse -49- on fuse box
SC7	Fuse -7- on fuse box
T2t	2-pin connector, black (connector L)
T5e	5-pin connector, yellow, on main fuse box
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
366	Earth connection -1-, in main wiring harness
655	Earth point, on left headlight
B273	Positive (+) connection (15), in main wiring harness
*	Only applies to models with battery in engine compartment
**	Only applies to models with battery in luggage compartment

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

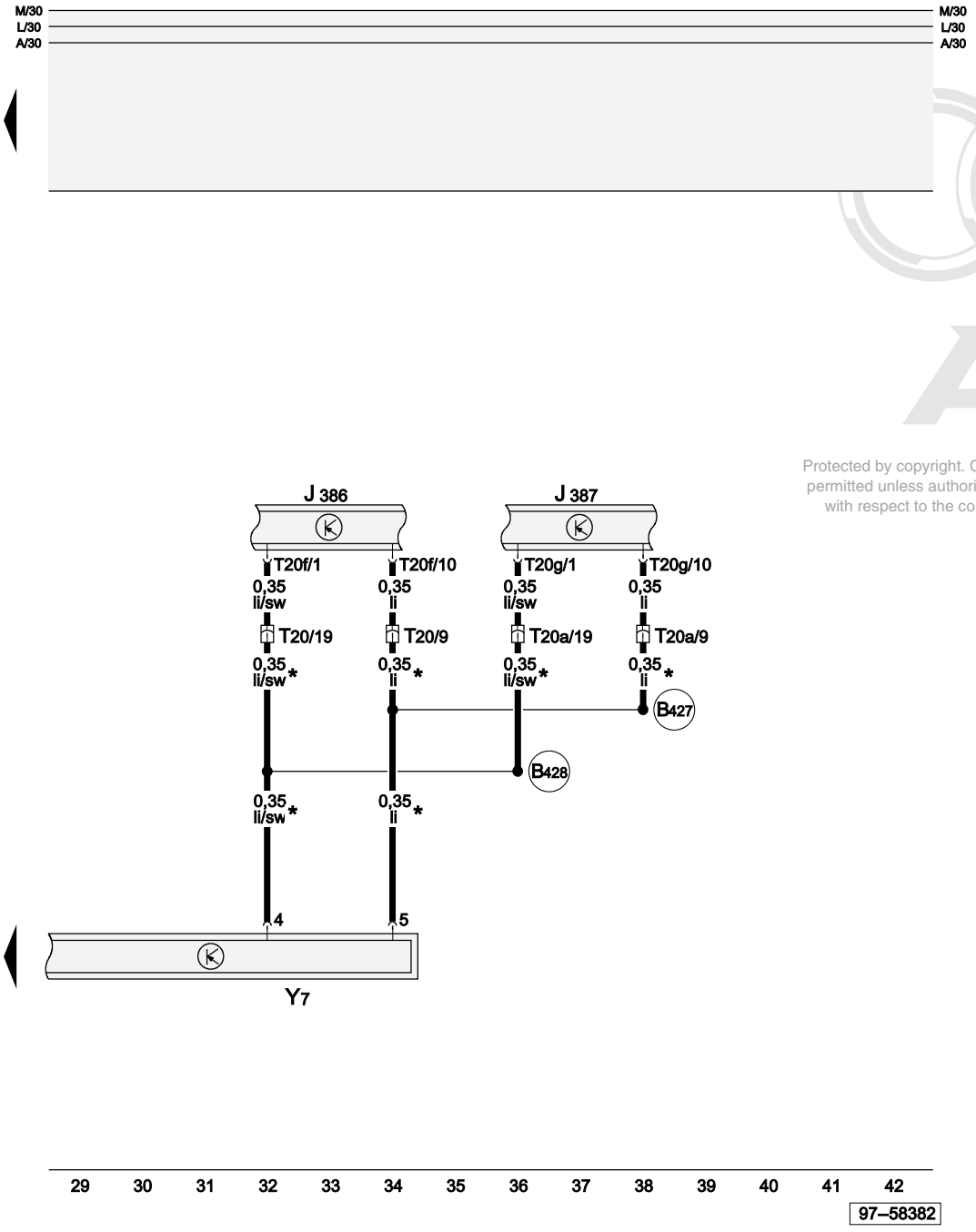


Door control units, automatic anti-dazzle interior mirror

G399	Light sensor
J519	Onboard power supply control unit
SC8	Fuse -8- on fuse box
T12c	12-pin connector, black (connector B)
W	Interior light, front
Y7	Automatic anti-dazzle interior mirror
43	Earth point, lower part of right A pillar
372	Earth connection -7-, in main wiring harness
B182	Connection (RF (reversing light)), in interior wiring harness
B280	Positive (+) connection -4- (15a), in main wiring harness
*	No longer fitted, phased-in modification

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Door control units, automatic anti-dazzle interior mirror

J386	Door control unit, driver's side
J387	Door control unit, front passenger's side
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
Y7	Automatic anti-dazzle interior mirror
B427	Connection -1- (mirror signal), in main wiring harness
B428	Connection -2- (mirror signal), in main wiring harness
*	Only applies to models with automatic anti-dazzle interior mirror ⇒ applicable Current Flow Diagram: Convenience systems

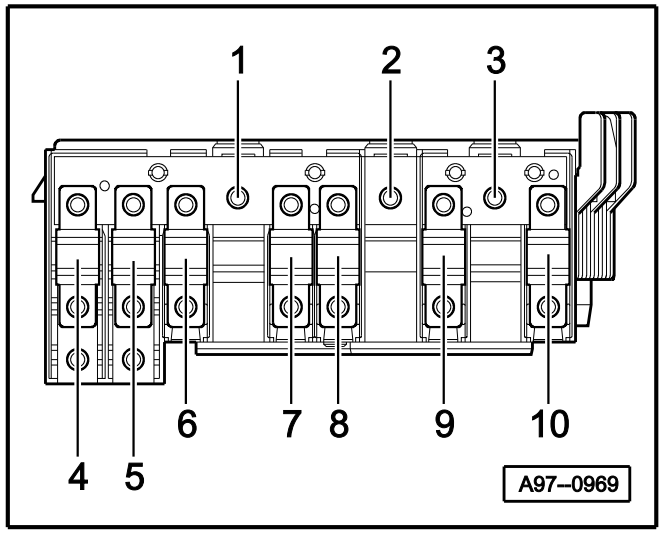
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bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Automatic anti-dazzle interior mirror (with coming home function)

From model year 2004

Main fuse box, electronics box

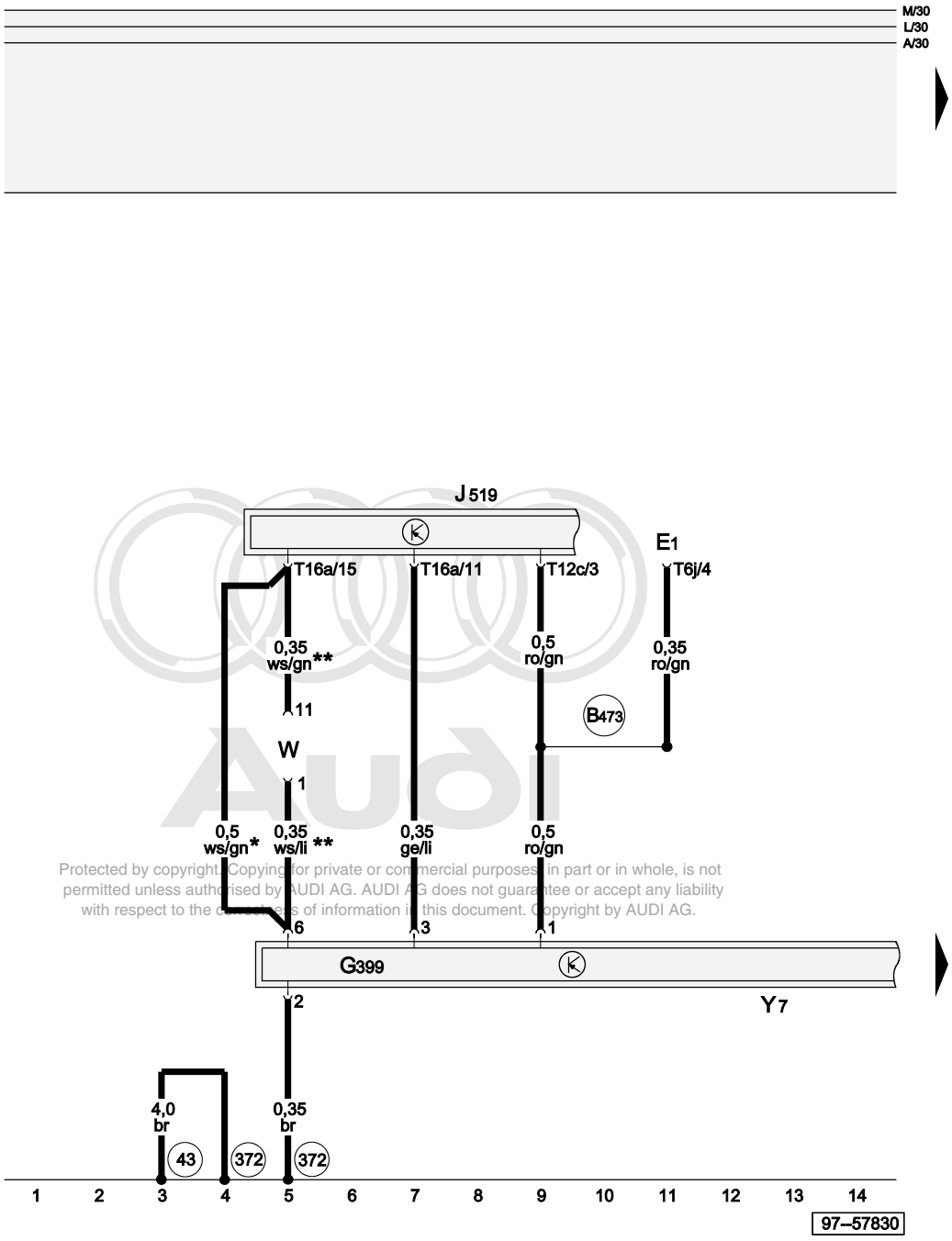


- At electronics box, in engine compartment, front left

Note:

- *Fuses in main fuse box are designated as SA in the Current Flow Diagram.*

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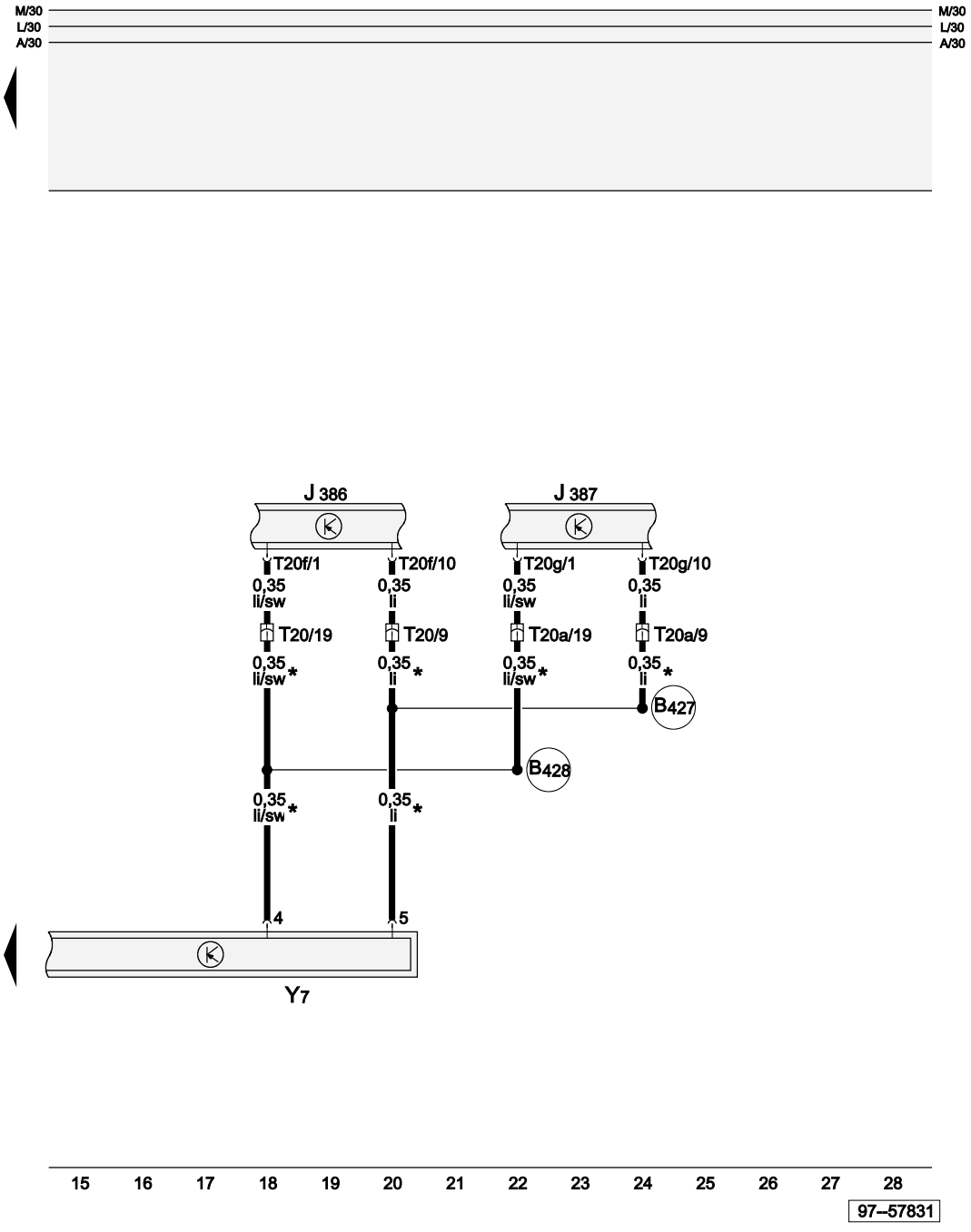


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Automatic anti-dazzle interior mirror

E1	Lighting switch
G399	Light sensor
J519	Onboard power supply control unit
T6j	6-pin connector, black (connector C)
T12c	12-pin connector, black (connector B)
T16a	16-pin connector, black (connector E)
W	Interior light, front
Y7	Automatic anti-dazzle interior mirror
43	Earth point, lower part of right A pillar
372	Earth connection -7-, in main wiring harness
B473	Connection -9-, in main wiring harness
*	Phased-in modification
**	No longer fitted, phased-in modification

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Door control units, automatic anti-dazzle interior mirror

J386	Door control unit, driver's side
J387	Door control unit, front passenger's side
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
Y7	Automatic anti-dazzle interior mirror
B427	Connection -1- (mirror signal), in main wiring harness
B428	Connection -2- (mirror signal), in main wiring harness
*	Only applies to models with automatic anti-dazzle interior mirror ⇒ applicable Current Flow Diagram: Convenience systems

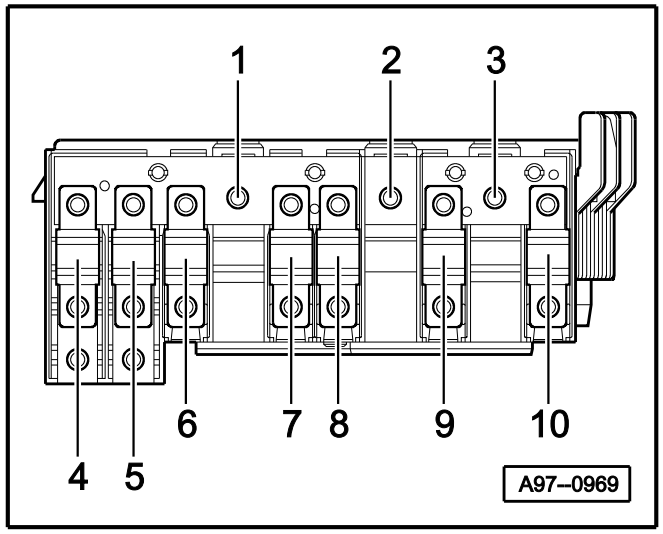
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or	=	orange
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Diagnostic connector

From model year 2004

Main fuse box, electronics box



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- At electronics box, in engine compartment, front left

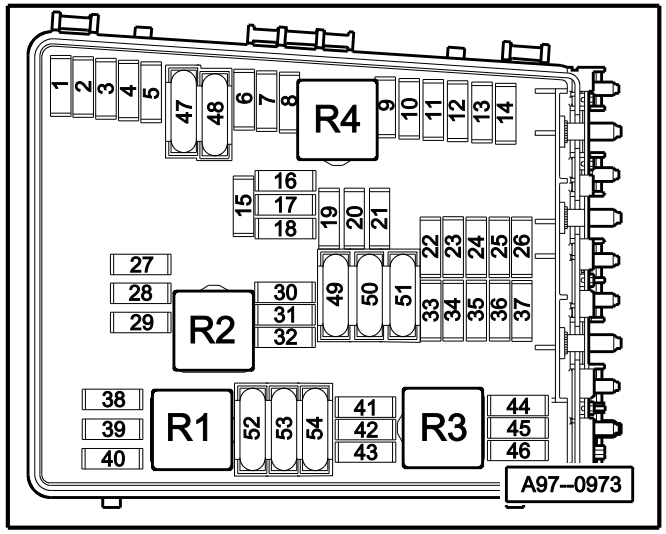
Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

Position of fuses
7 - Fuse -4- on fuse box/battery (SA4)
9 - Fuse -6- on fuse box/battery (SA6)

Note:

- *Fuses in main fuse box are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

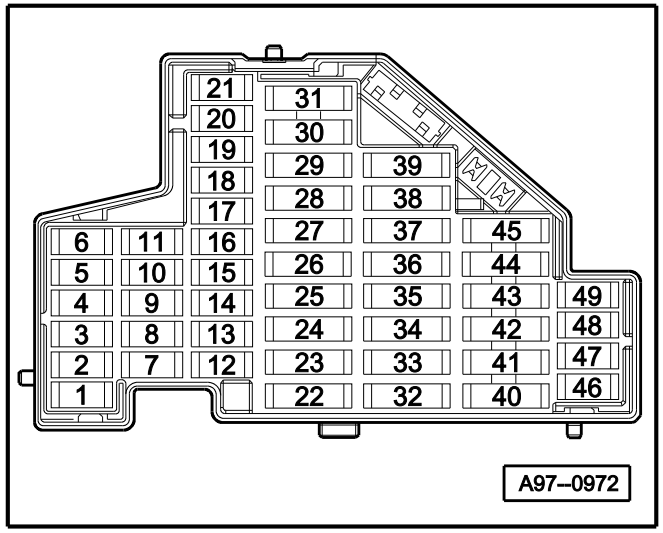
Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

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Fuse box



- Dash panel, driver's side

Fuse colours

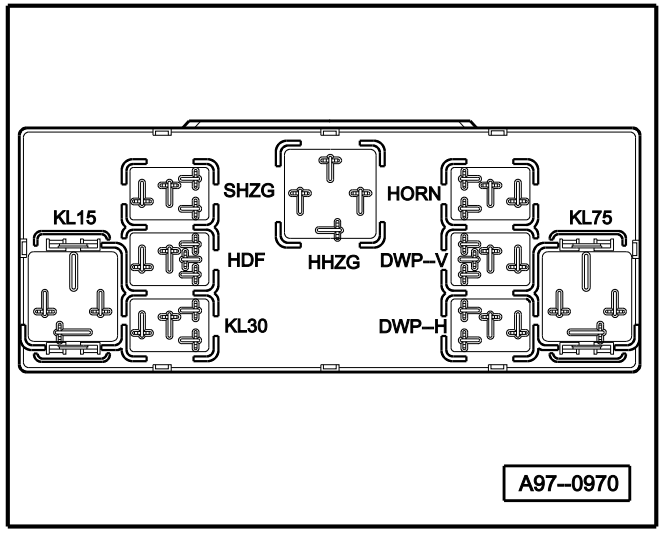
40 A - orange
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

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Onboard power supply control unit - J519

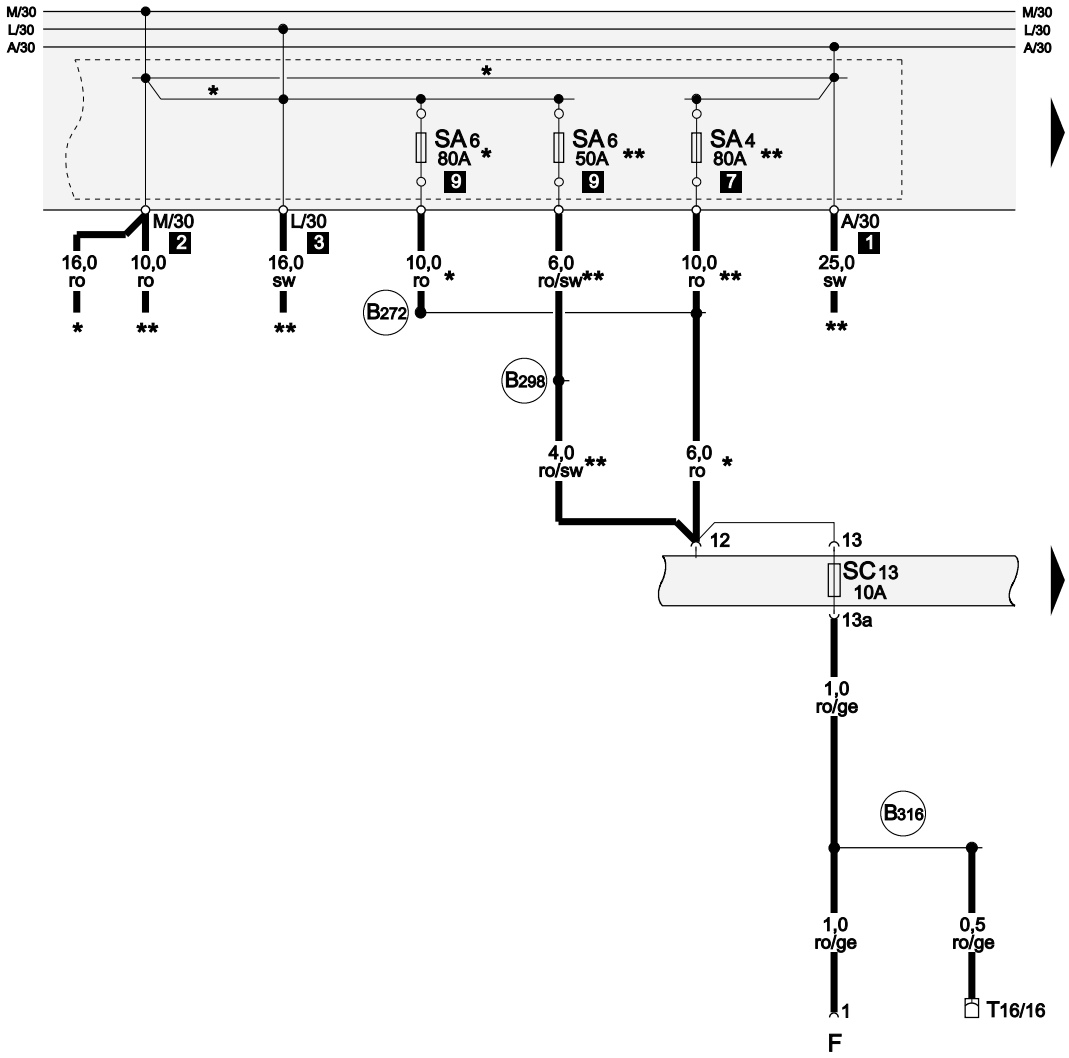


♦ Dash panel, driver's side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay -2- - J681

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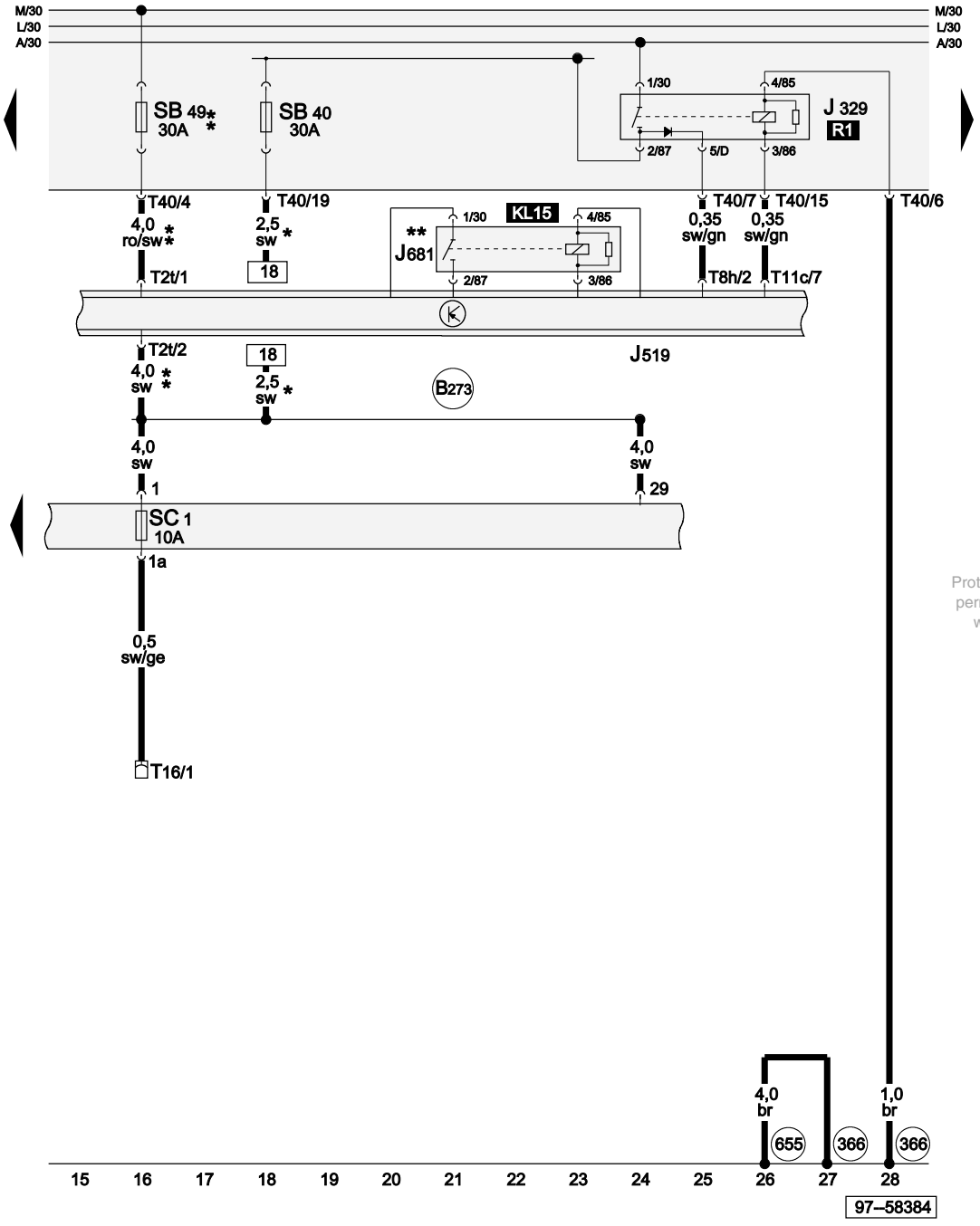


Data bus diagnostic interface, diagnostic connector

F	Brake light switch
SA4	Fuse -4- on fuse box/battery
SA6	Fuse -6- on fuse box/battery
SC13	Fuse -13- on fuse box
T16	16-pin connector, black, dash panel, driver's side, bottom left (diagnostic connector)
B272	Positive (+) connection (30), in main wiring harness
B298	Positive (+) connection -2- (30), in main wiring harness
B316	Positive (+) connection -2- (30a), in main wiring harness
*	⇒ Applicable Current Flow Diagram: Basic equipment with battery in engine compartment
**	⇒ Applicable Current Flow Diagram: Basic equipment with battery in luggage compartment

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Diagnostic connector, terminal 15 voltage supply relay

J329	Terminal 15 voltage supply relay
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay -2-
SB40	Fuse -40- on fuse box
SB49	Fuse -49- on fuse box
SC1	Fuse -1- on fuse box
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T16	16-pin connector, black, dash panel, driver's side, bottom left (diagnostic connector)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
366	Earth connection -1-, in main wiring harness
655	Earth point, on left headlight
B273	Positive (+) connection (15), in main wiring harness
*	⇒ Applicable Current Flow Diagram: Basic equipment with battery in engine compartment
**	⇒ Applicable Current Flow Diagram: Basic equipment with battery in luggage compartment

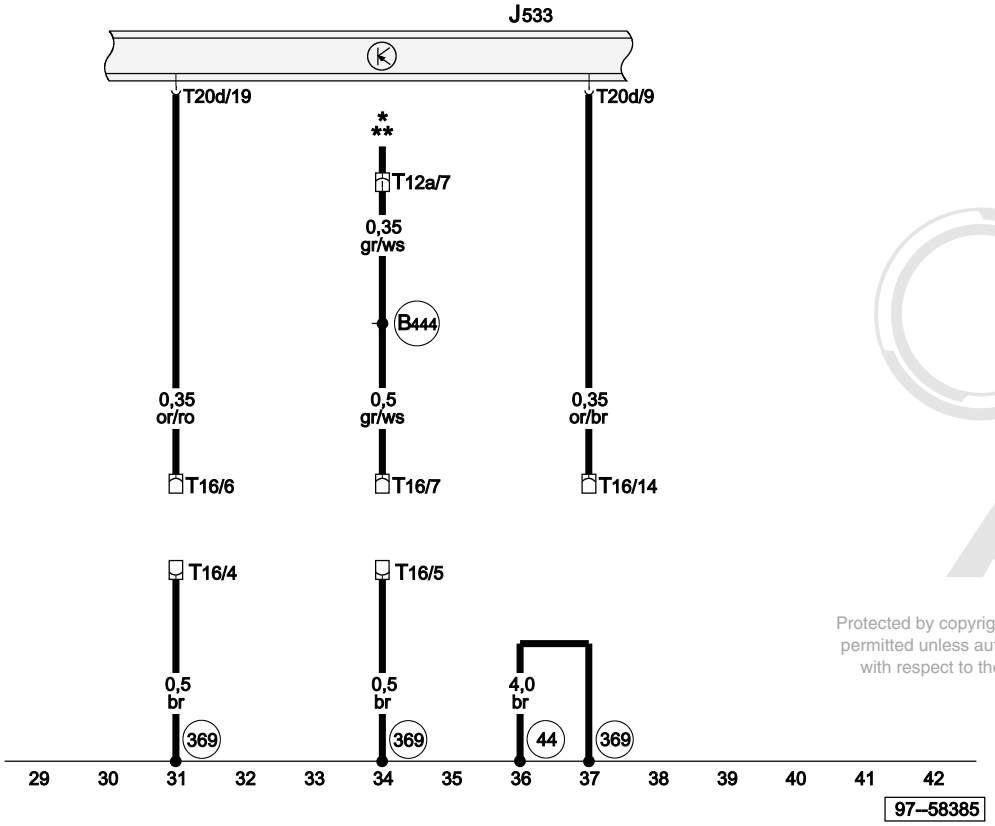
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or	=	orange
rs	=	pink



Data bus diagnostic interface, diagnostic connector

J533	Data bus diagnostic interface
T12a	12-pin connector, blue, in plenum chamber
T16	16-pin connector, black, dash panel, driver's side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
44	Earth point, lower part of left A pillar
369	Earth connection -4-, in main wiring harness
B444	Connection -1- (diagnosis), in main wiring harness
*	See applicable Current Flow Diagram: Automatic gearbox
**	See applicable engine Current Flow Diagram



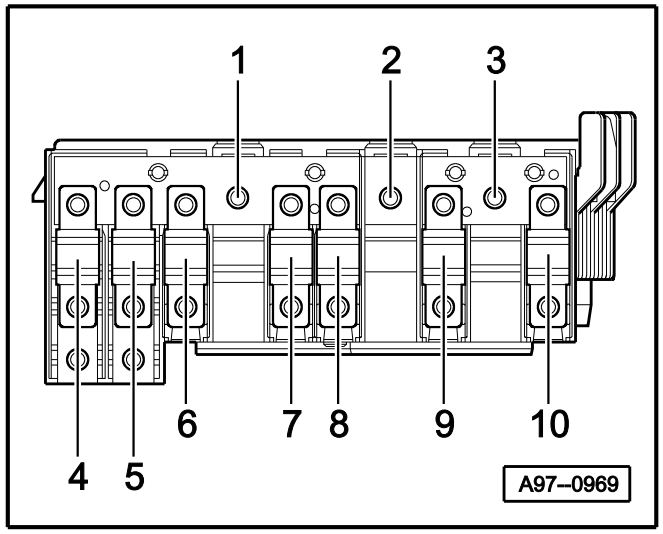
ws = white
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Data bus wires (CAN bus, LIN bus)

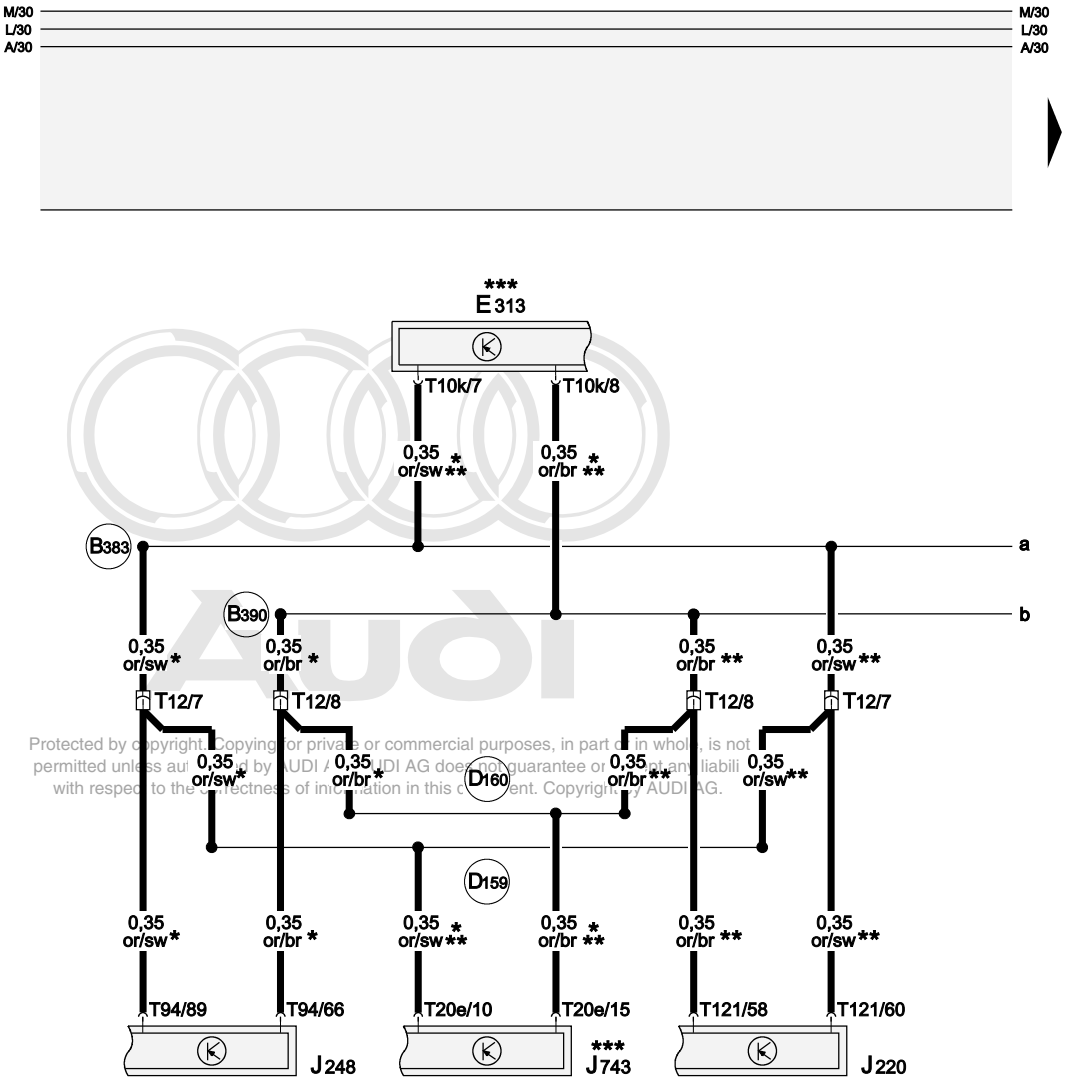
From model year 2004

Main fuse box, electronics box



♦ At electronics box, in engine compartment, front left

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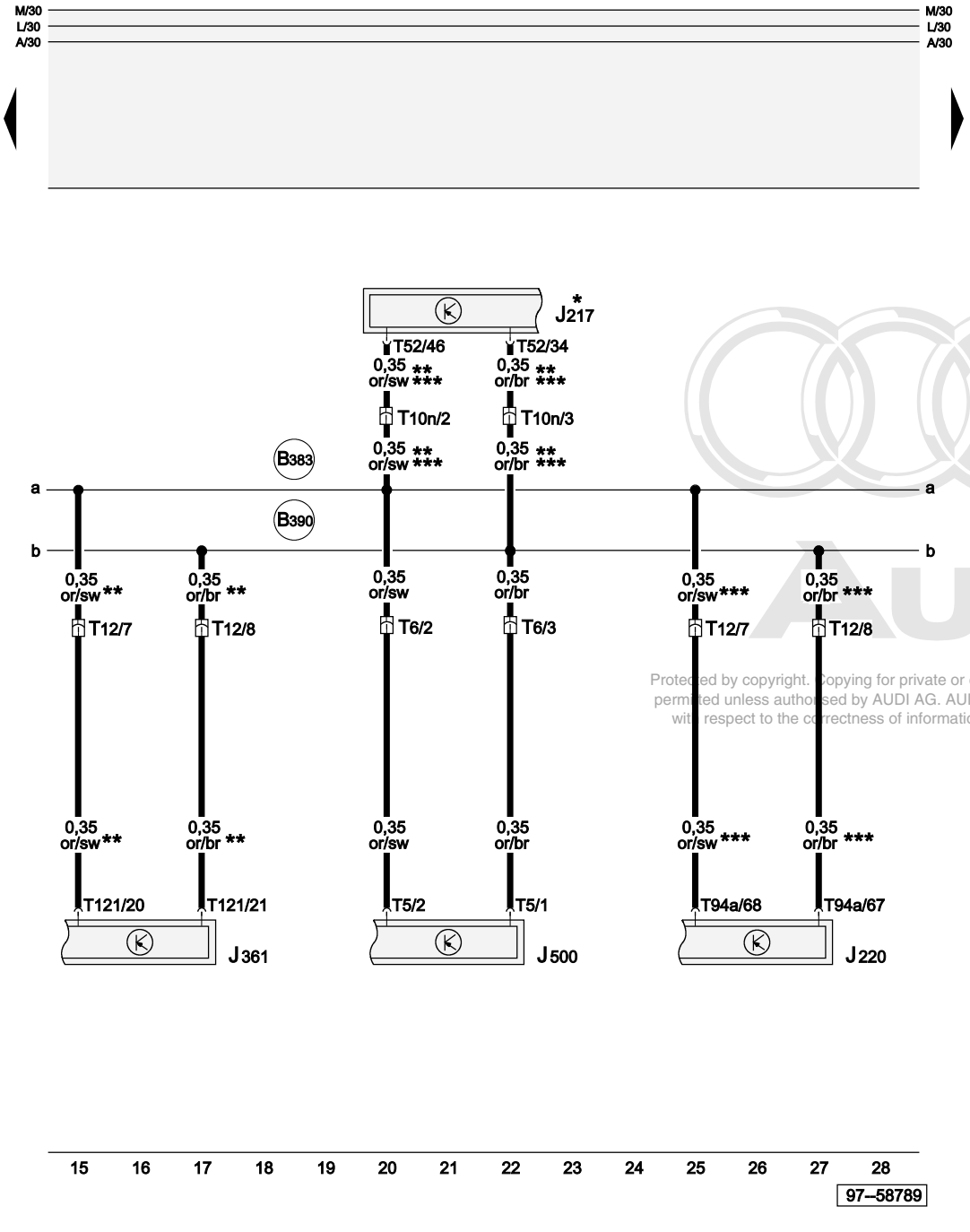


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Drive train CAN bus

E313	Selector lever
J220	Motronic control unit
J248	Diesel direct injection system control unit
J743	Direct shift gearbox mechatronics
T10k	10-pin connector, black, on selector lever
T12	12-pin connector, green, in plenum chamber
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness
D159	Connection (high bus), in engine compartment wiring harness
D160	Connection (low bus), in engine compartment wiring harness
*	Only applies to models with engine codes AZV, BKC and BKD
**	Only applies to models with engine code BDB
***	Only applies to models with direct shift gearbox (02E)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

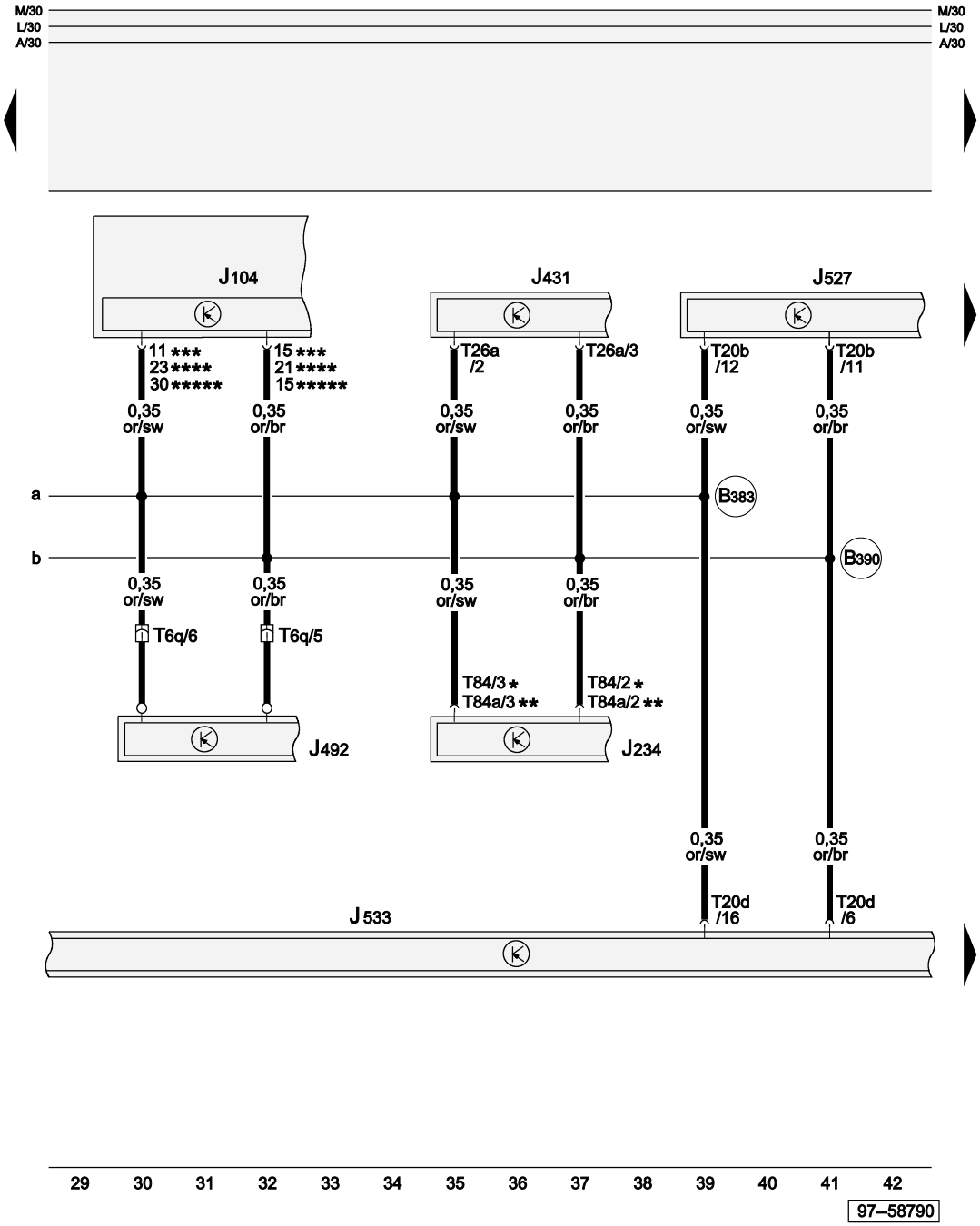


Drive train CAN bus

J217	Automatic gearbox control unit
J220	Motronic control unit
J361	Simos control unit
J500	Power steering control unit
T5	5-pin connector, white (connector C)
T6	6-pin connector, black, near longitudinal member, front left
T10n	10-pin connector, black, near longitudinal member, front left
T12	12-pin connector, green, in plenum chamber
T52	52-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness
*	Only applies to models with automatic gearbox (09G)
**	Only applies to models with engine code BGU
***	Only applies to models with engine codes AXW, BAG

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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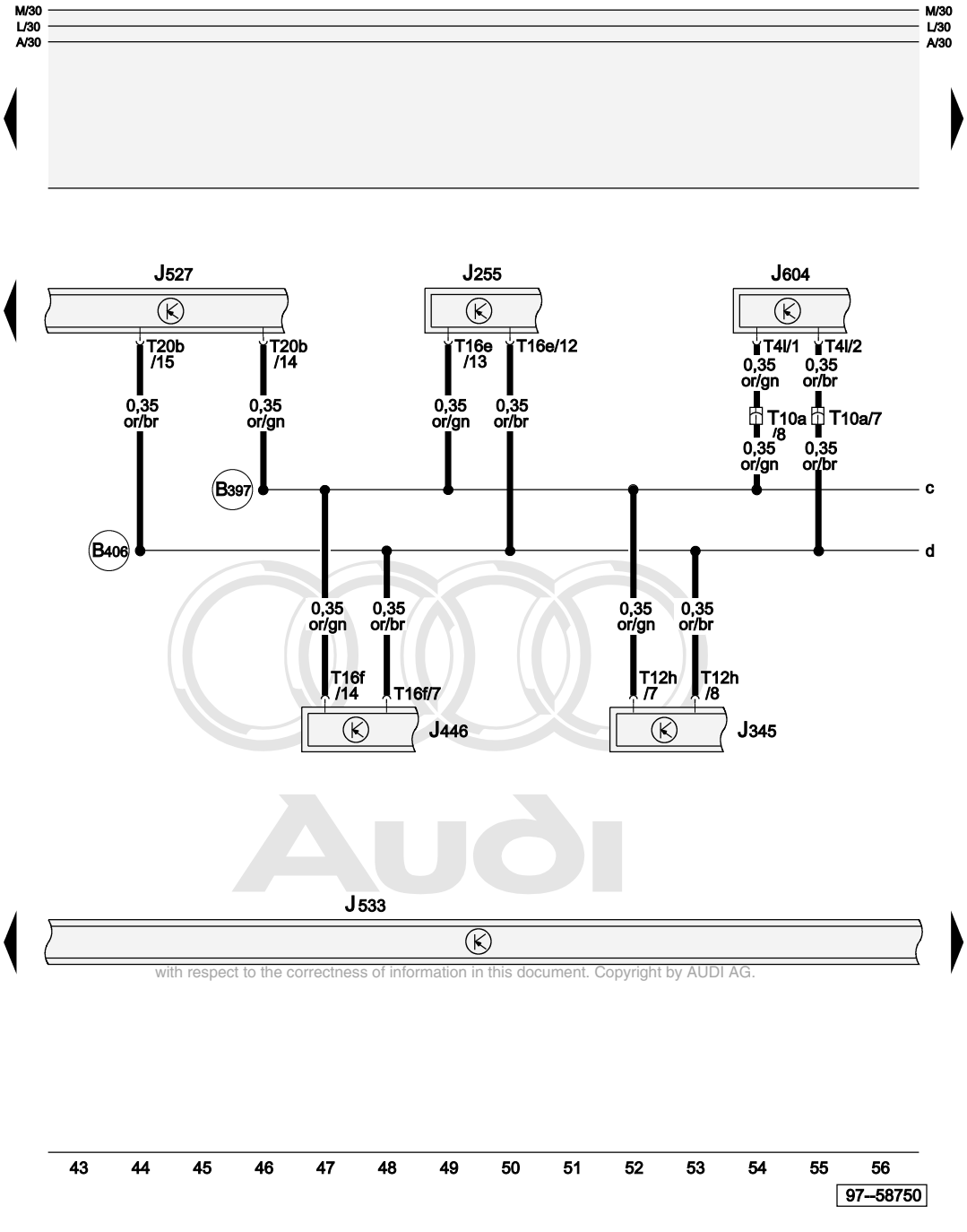


Drive train CAN bus

J104	ABS with EDL control unit
J234	Airbag control unit
J431	Headlight range control, control unit
J492	Four-wheel drive control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T6q	6-pin connector, black, near fuel gauge sender -2-
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T26a	26-pin connector, black (connector A)
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness
*	Only applies to models with curtain airbags (blue retainer catch)
**	Only applies to models without curtain airbags (green retainer catch)
***	Only applies to models with anti-lock brake system (ABS) MK60 and direct shift gearbox (02E) or manual gearbox
****	Only applies to models with anti-lock brake system (ABS) MK70
*****	Only applies to models with anti-lock brake system (ABS) MK60 and automatic gearbox (09G)

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ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

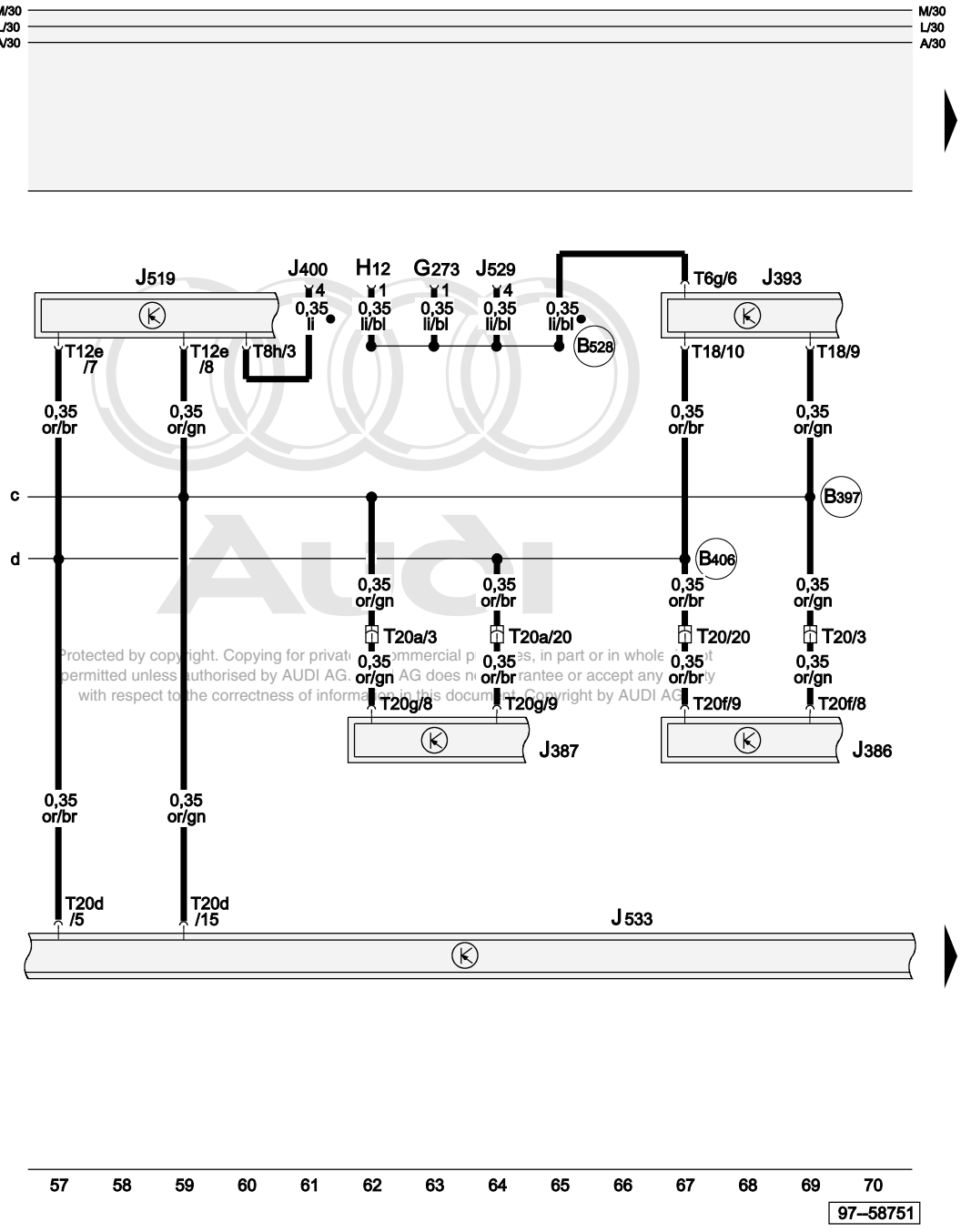


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Convenience CAN bus

J255	Climatronic control unit
J345	Trailer detector control unit
J446	Parking aid control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J604	Additional air heater control unit
T4l	4-pin connector, black (connector C)
T10a	10-pin connector, black, behind glove box
T12h	12-pin connector, red (connector A)
T16e	16-pin connector, brown (connector C)
T16f	16-pin connector, brown, on parking aid control unit
T20b	20-pin connector, black (connector A)
B397	Connection -1- (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

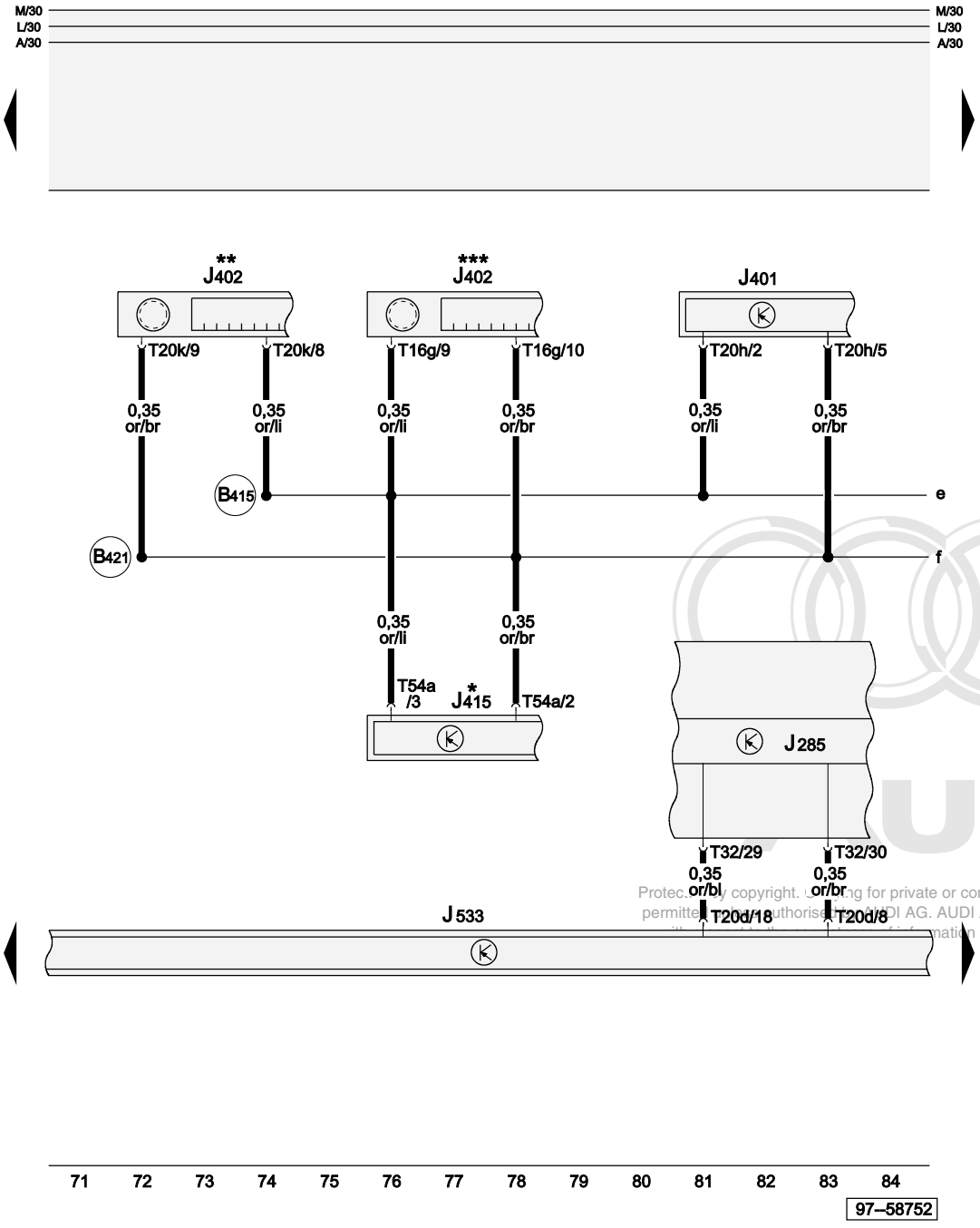


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Convenience CAN bus, LIN bus

G273	Interior monitoring sensor
H12	Alarm horn
J386	Door control unit, driver's side
J387	Door control unit, front passenger's side
J393	Convenience system central control unit
J400	Wiper motor control unit
J519	Onboard power supply control unit
J529	Anti-theft/tilt system control unit
J533	Data bus diagnostic interface
T6g	6-pin connector, black (connector E)
T8h	8-pin connector, black (connector F)
T12e	12-pin connector, black (connector G)
T18	18-pin connector, brown (connector A)
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
T20d	20-pin connector, yellow (connector A)
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
B397	Connection -1- (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
B528	Connection -1- (LIN bus), in main wiring harness
•	Data bus wire (LIN bus)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



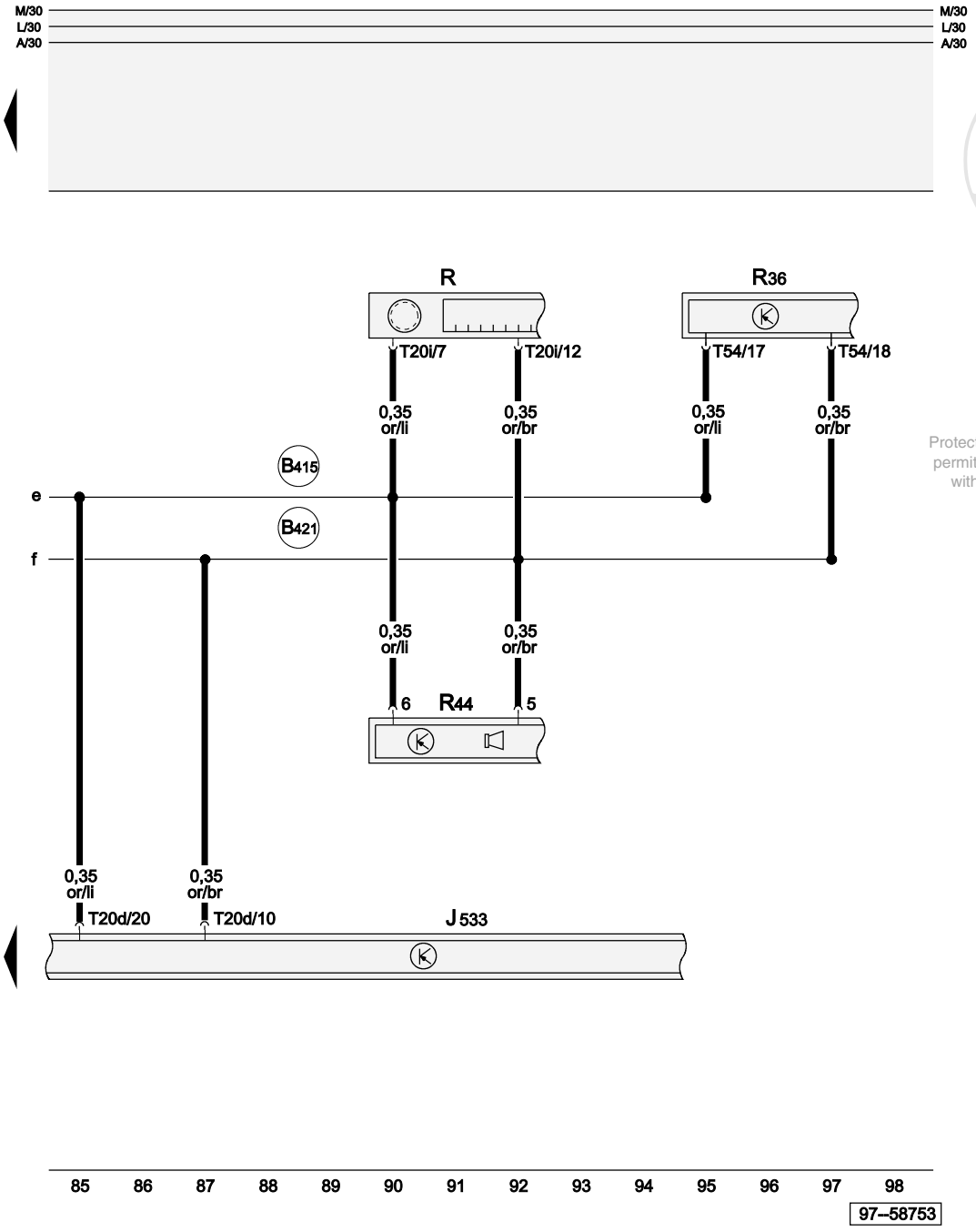
Infotainment CAN bus

J285	Control unit with display in dash panel insert
J401	Navigation system with CD drive control unit
J402	Operating electronics control unit, navigation
J415	Navigation/TV tuner
J533	Data bus diagnostic interface
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T20h	20-pin connector, black (connector C)
T20k	20-pin connector, black (connector C)
T32	32-pin connector, blue (connector A)
T54a	54-pin connector, black (connector A)
B415	Connection -1- (infotainment CAN bus, high), in main wiring harness
B421	Connection -1- (infotainment CAN bus, low), in main wiring harness

* Only applies to models with TV tuner
** Only applies to models with radio navigation system (Japan)
*** Only applies to models with radio navigation system (RNS-E)

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rs	=	pink



Infotainment CAN bus

J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
R44	Amplifier with bass loudspeaker (luggage compartment, left)
T20d	20-pin connector, yellow (connector A)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
B415	Connection -1- (infotainment CAN bus, high), in main wiring harness
B421	Connection -1- (infotainment CAN bus, low), in main wiring harness

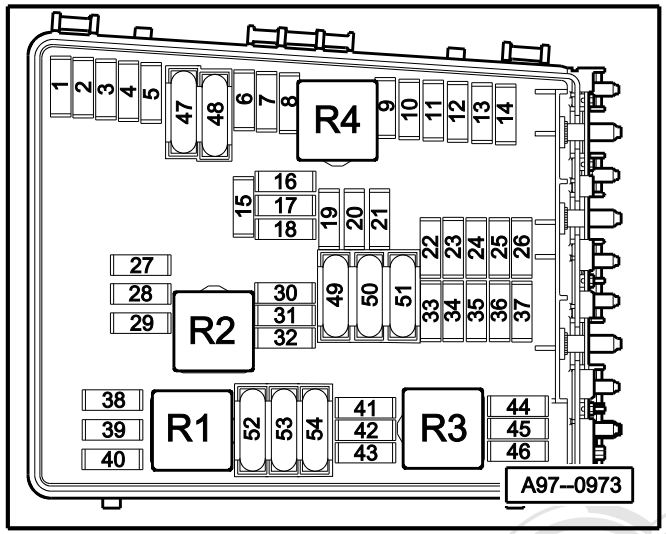
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or	=	orange
rs	=	pink

Heated front seats (models without air conditioning system)

From model year 2004

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

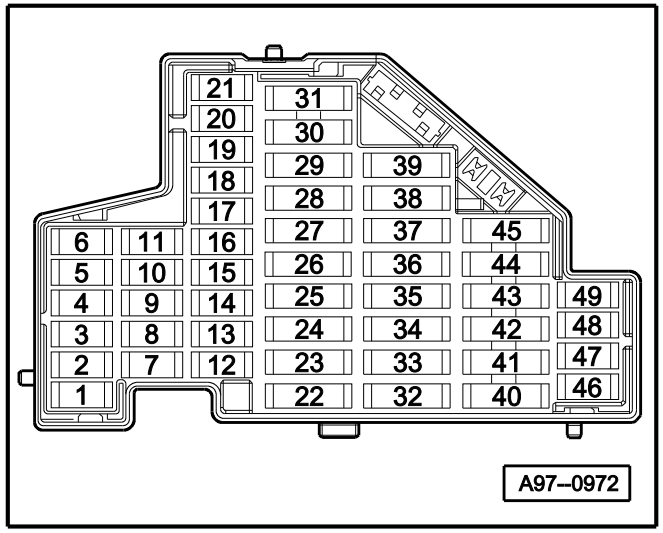
Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

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Fuse box



- Dash panel, driver's side

Fuse colours

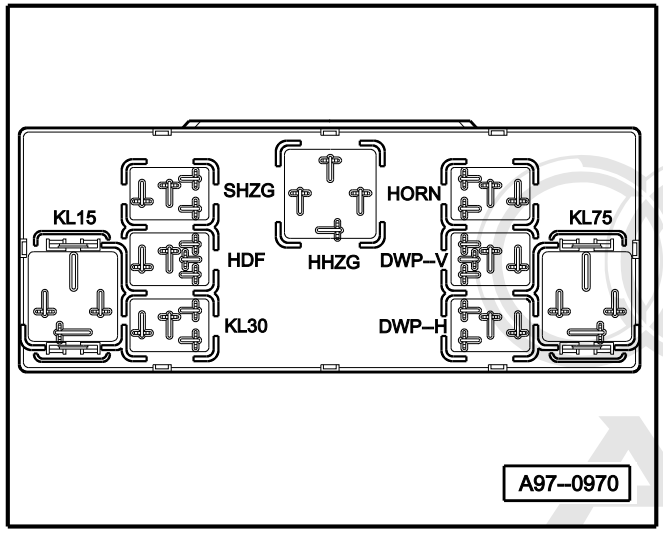
40 A - orange
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

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Onboard power supply control unit - J519



♦ Dash panel, driver's side, bottom left

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Position of relays

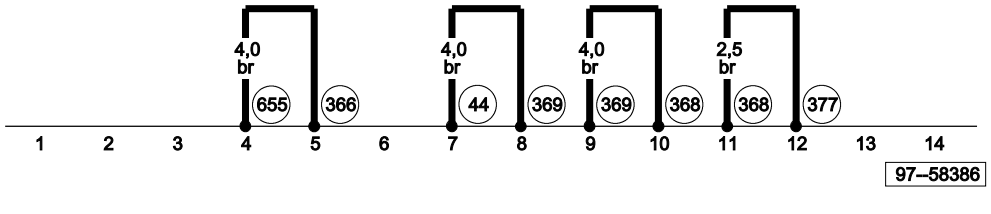
KL15 - Terminal 15 voltage supply relay -2- J681
KL75 - X contact relief relay - J59



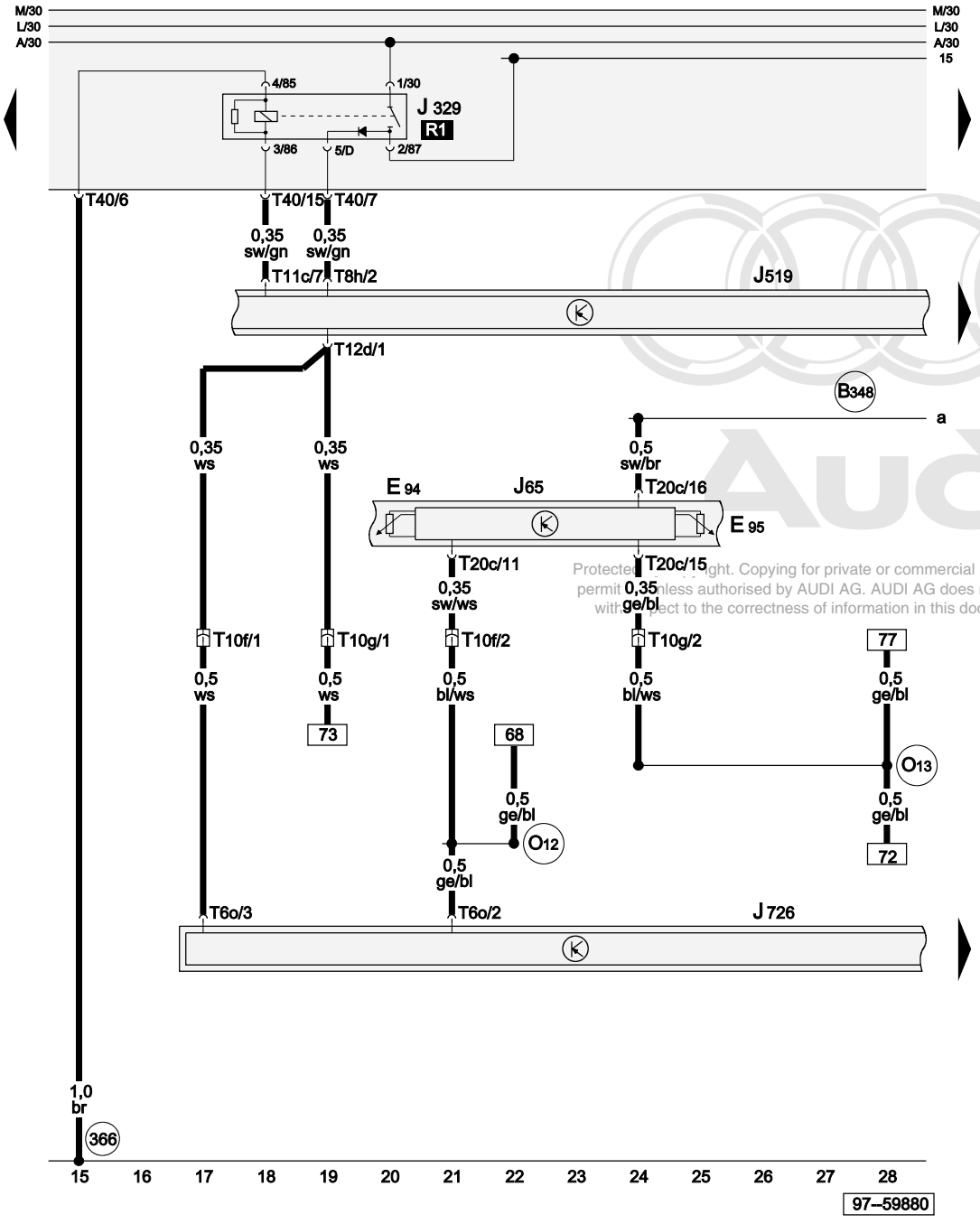
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Earth points, earth connections

- 44 Earth point, lower part of left A pillar
- 366 Earth connection -1-, in main wiring harness
- 368 Earth connection -3-, in main wiring harness
- 369 Earth connection -4-, in main wiring harness
- 377 Earth connection -12-, in main wiring harness
- 655 Earth point, on left headlight



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

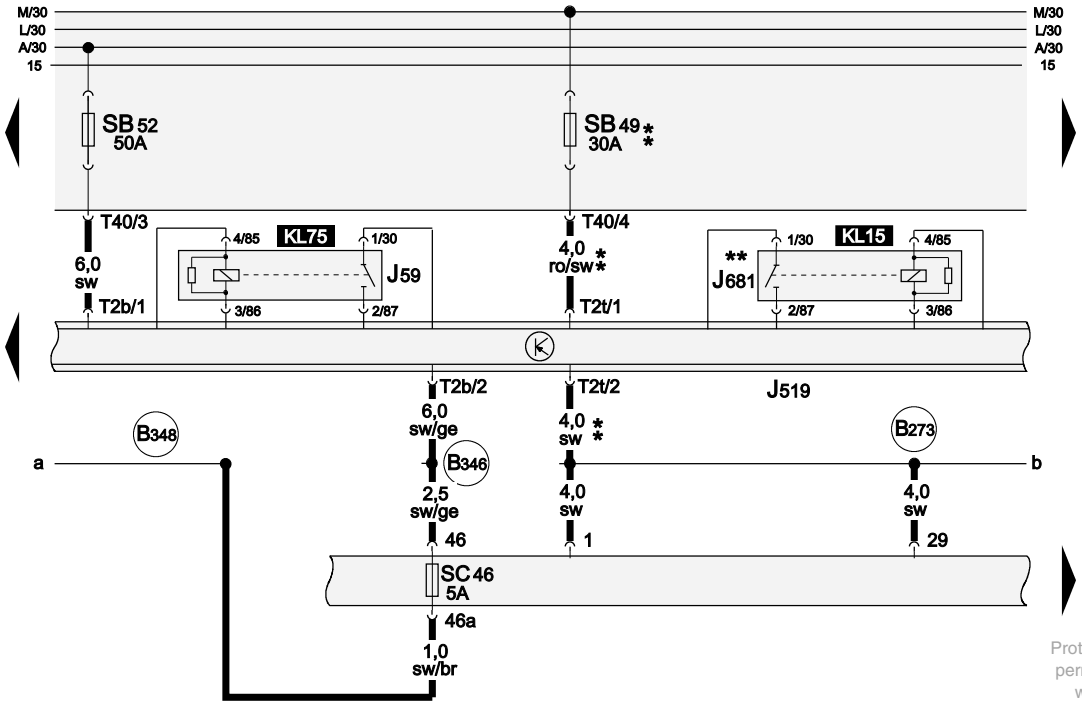


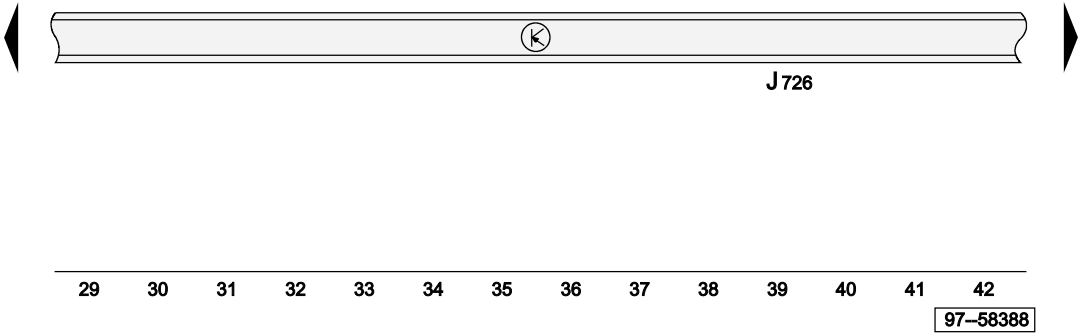
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Heated driver's seat regulator, heated front passenger's seat regulator

E94	Heated driver's seat regulator
E95	Heated front passenger's seat regulator
J65	Heater control unit
J329	Terminal 15 voltage supply relay
J519	Onboard power supply control unit
J726	Driver's seat heating control unit
T6o	6-pin connector, black, on driver's seat heating control unit
T8h	8-pin connector, black (connector F)
T10f	10-pin connector, black/white, under driver's seat
T10g	10-pin connector, black/white, under front passenger's seat
T11c	11-pin connector, brown (connector D)
T12d	12-pin connector, brown (connector C)
T20c	20-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B348	Connection 1 (75A), in main wiring harness
O12	Connection 1, in seat heating wiring harness
O13	Connection 2, in seat heating wiring harness

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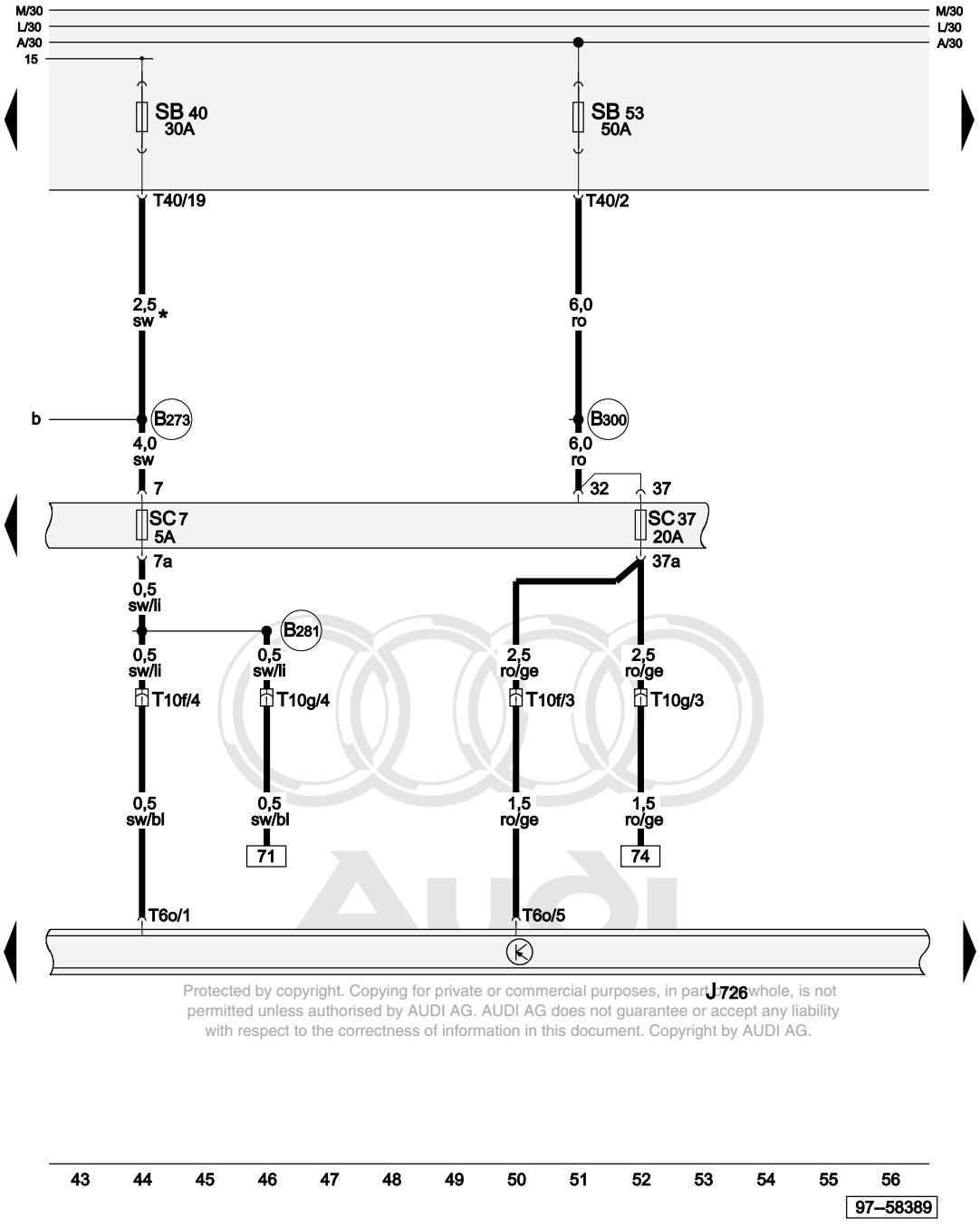


Driver's seat heating control unit, terminal 15 voltage supply relay 2

J59	X contact relief relay
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay 2
J726	Driver's seat heating control unit
SB49	Fuse 49 on fuse box
SB52	Fuse 52 on fuse box
SC46	Fuse 46 on fuse box
T2b	2-pin connector, brown (connector I)
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
B273	Positive (+) connection (15), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
**	Only applies to models with battery in luggage compartment

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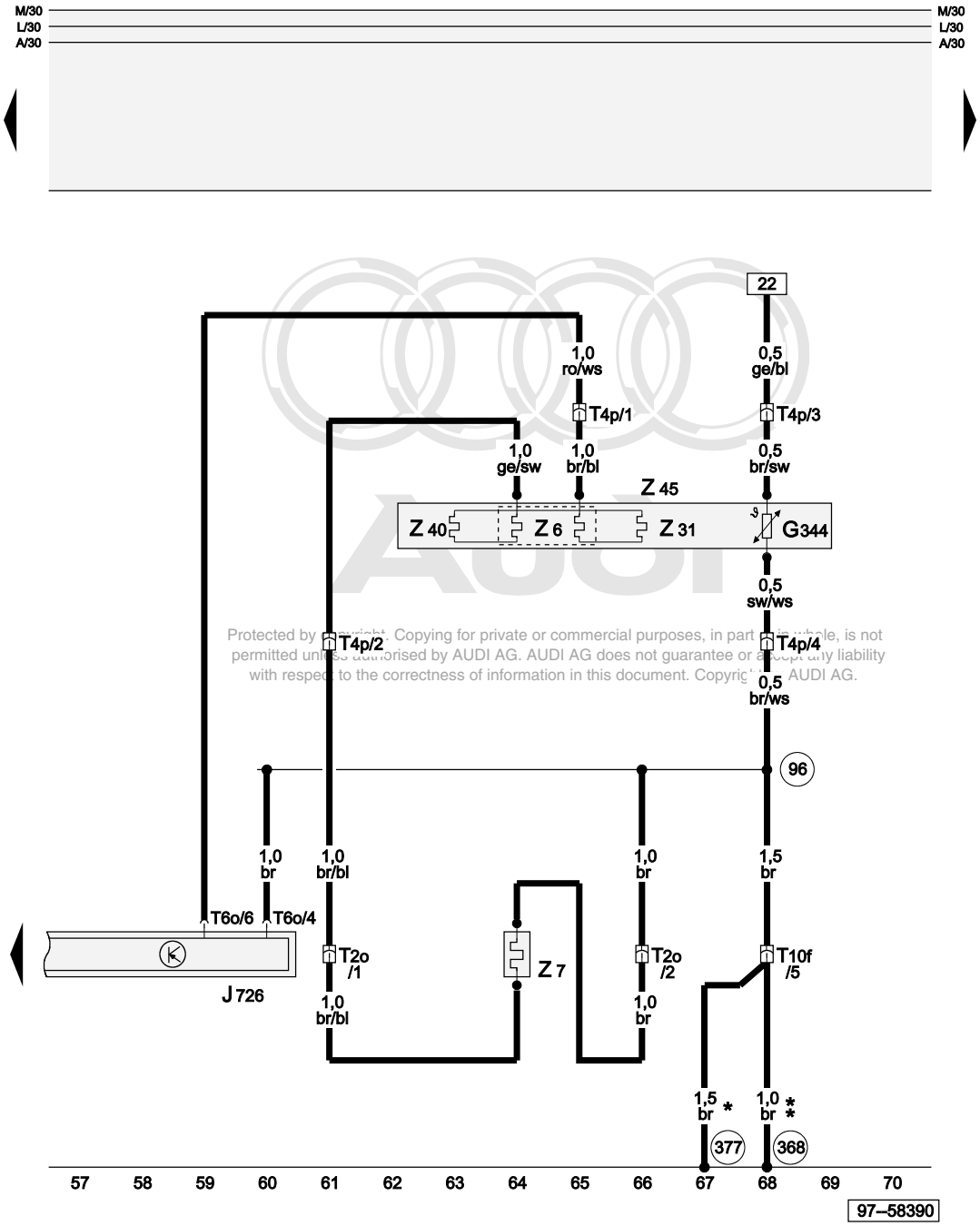


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Driver's seat heating control unit, fuses

J726	Driver's seat heating control unit
SB40	Fuse 40 on fuse box
SB53	Fuse 53 on fuse box
SC7	Fuse 7 on fuse box
SC37	Fuse 37 on fuse box
T6o	6-pin connector, black, on driver's seat heating control unit
T10f	10-pin connector, black/white, under driver's seat
T10g	10-pin connector, black/white, under front passenger's seat
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
B273	Positive (+) connection (15), in main wiring harness
B281	Positive (+) connection 5 (15a), in main wiring harness
B300	Positive (+) connection 4 (30), in main wiring harness
*	Only applies to models with battery in engine compartment

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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rs	=	pink

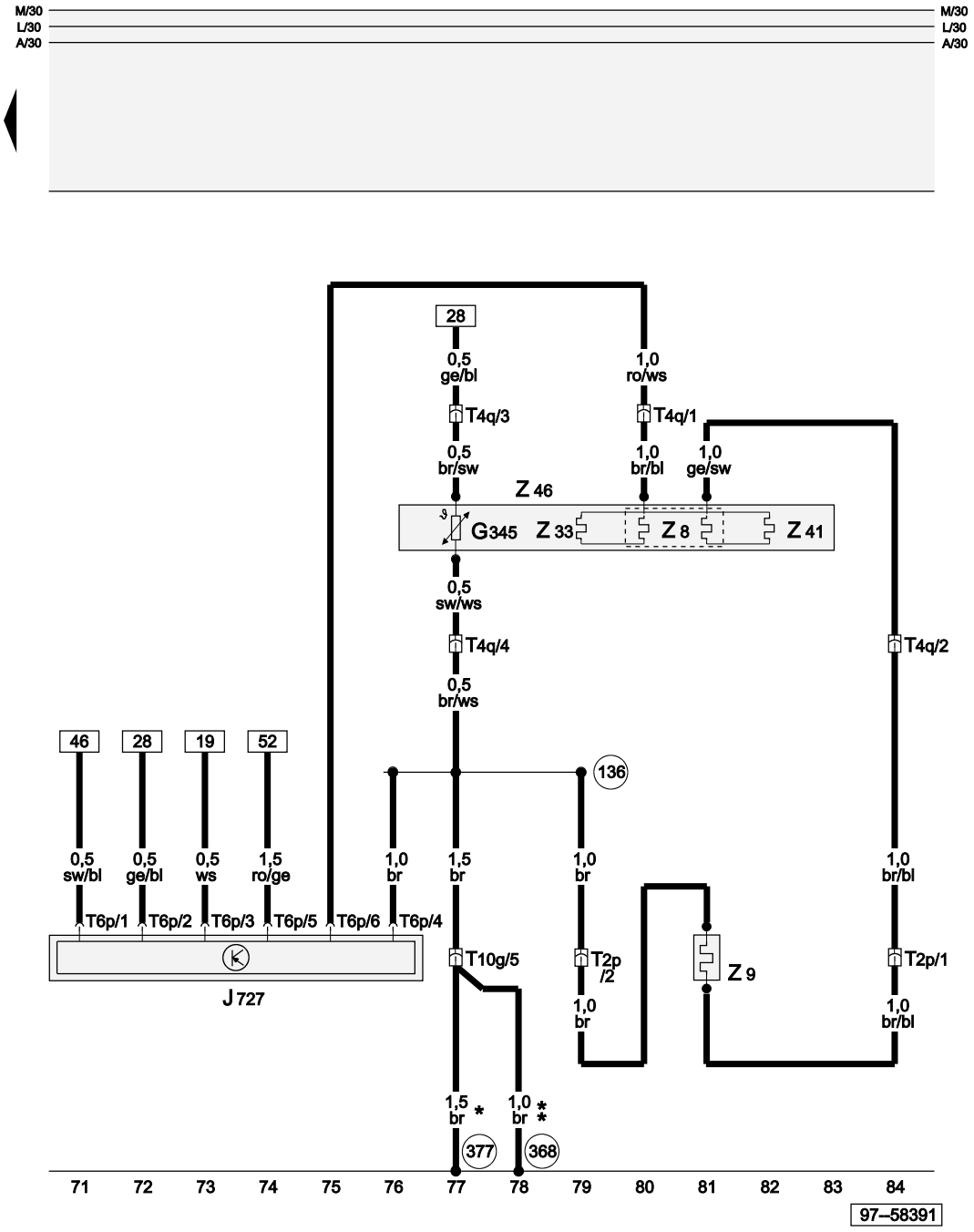


Driver's seat heating control unit, front left seat heating

G344	Temperature sensor for front left seat
J726	Driver's seat heating control unit
T2o	2-pin connector, black, on driver's seat for heated backrest
T4p	4-pin connector, black, on heated driver's seat
T6o	6-pin connector, black, on driver's seat heating control unit
T10f	10-pin connector, black/white, under driver's seat
Z6	Heated driver's seat cushion
Z7	Heated driver's seat backrest
Z31	Driver's seat lateral support heater
Z40	Driver's seat lateral support heater 2
Z45	Front left seat heating
96	Earth connection 1, in seat heating wiring harness
368	Earth connection 3, in main wiring harness
377	Earth connection 12, in main wiring harness
*	Only applies to models without lumbar support adjustment
**	Only applies to models with lumbar support adjustment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Front passenger's seat heating control unit, front right seat heating

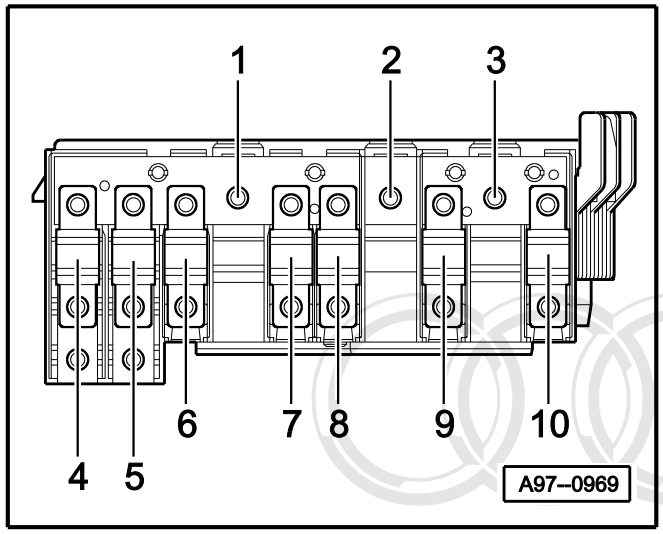
G345	Temperature sensor for front right seat
J727	Front passenger's seat heating control unit
T2p	2-pin connector, black, on front passenger's seat for heated backrest
T4q	4-pin connector, black, on heated front passenger's seat
T6p	6-pin connector, black, on front passenger's seat heating control unit
T10g	10-pin connector, black/white, under front passenger's seat
Z8	Heated front passenger's seat cushion
Z9	Heated front passenger's seat backrest
Z33	Front passenger's seat lateral support heater
Z41	Front passenger's seat lateral support heater 2
Z46	Front right seat heating
136	Earth connection 2, in seat heating wiring harness
368	Earth connection 3, in main wiring harness
377	Earth connection 12, in main wiring harness
*	Only applies to models without lumbar support adjustment
**	Only applies to models with lumbar support adjustment

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Heated front seats (models with air conditioner)

From model year 2004

Main fuse box, electronics box



♦ At electronics box, in engine compartment, front left

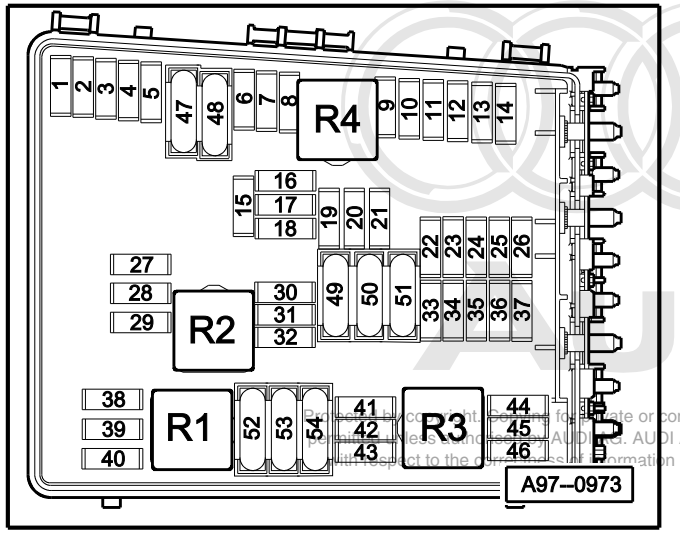
Main supply connection
2 - Screw connection M (terminal 30)

Note:

♦ *Fuses in main fuse box are designated as SA in the Current Flow Diagram.*

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Relay and fuse carrier, electronics box



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- In engine compartment, front left

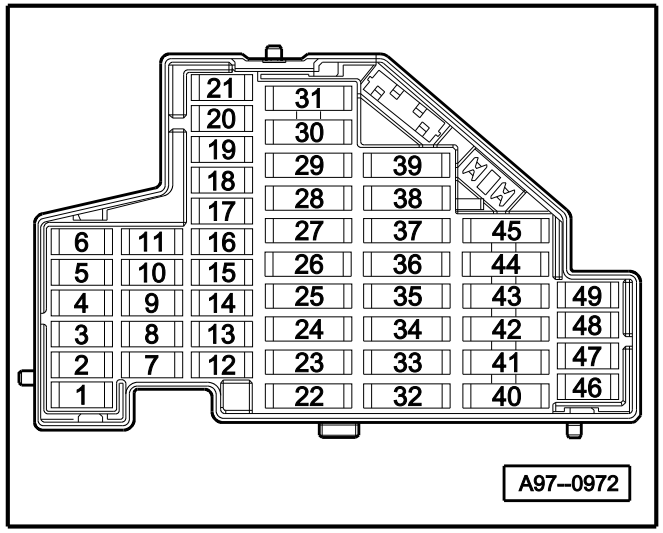
Fuse colours

50 A - red

Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Fuse box



- Dash panel, driver's side

Fuse colours

20 A - yellow

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

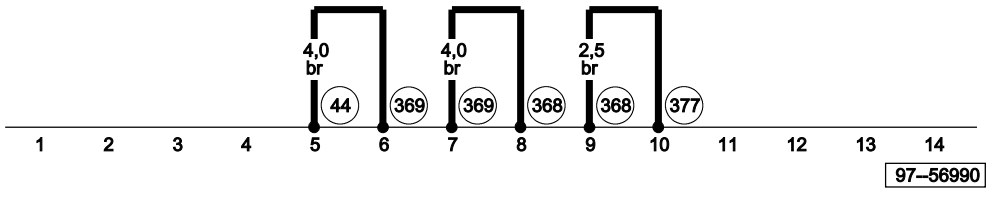
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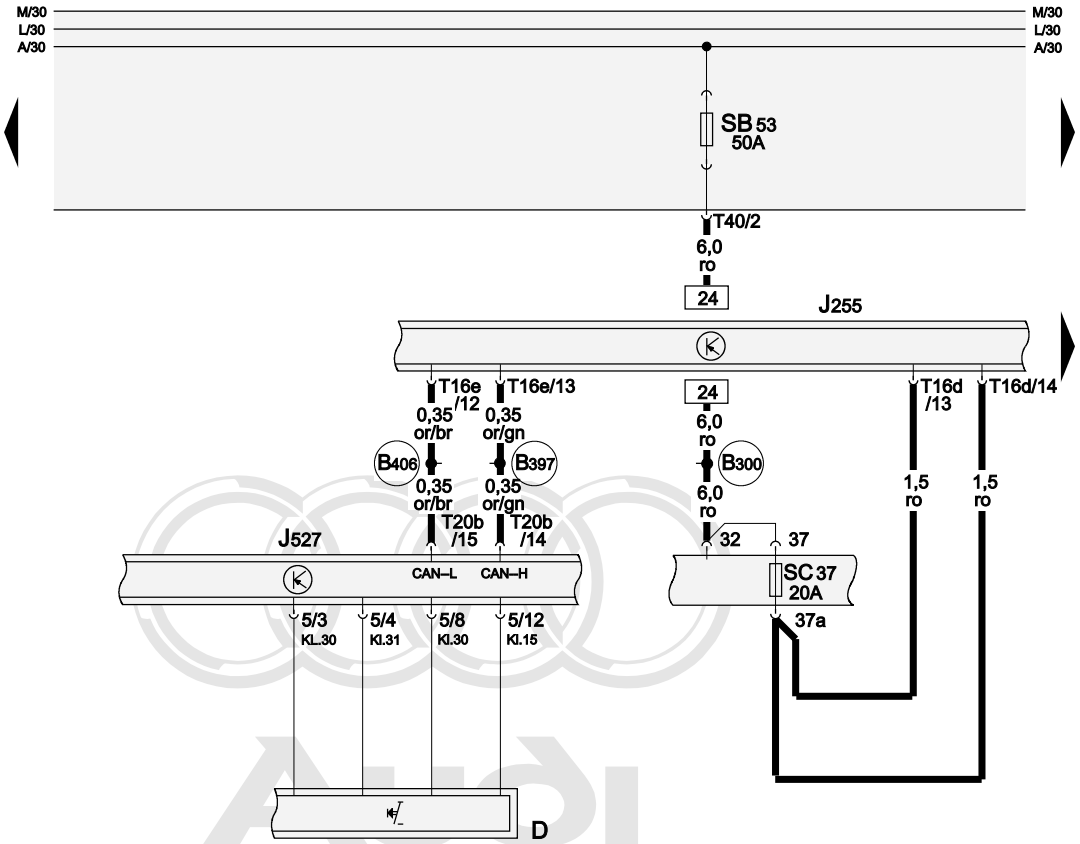
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Earth points, earth connections

- 44 Earth point, lower part of left A pillar
- 368 Earth connection -3-, in main wiring harness
- 369 Earth connection -4-, in main wiring harness
- 377 Earth connection -12-, in main wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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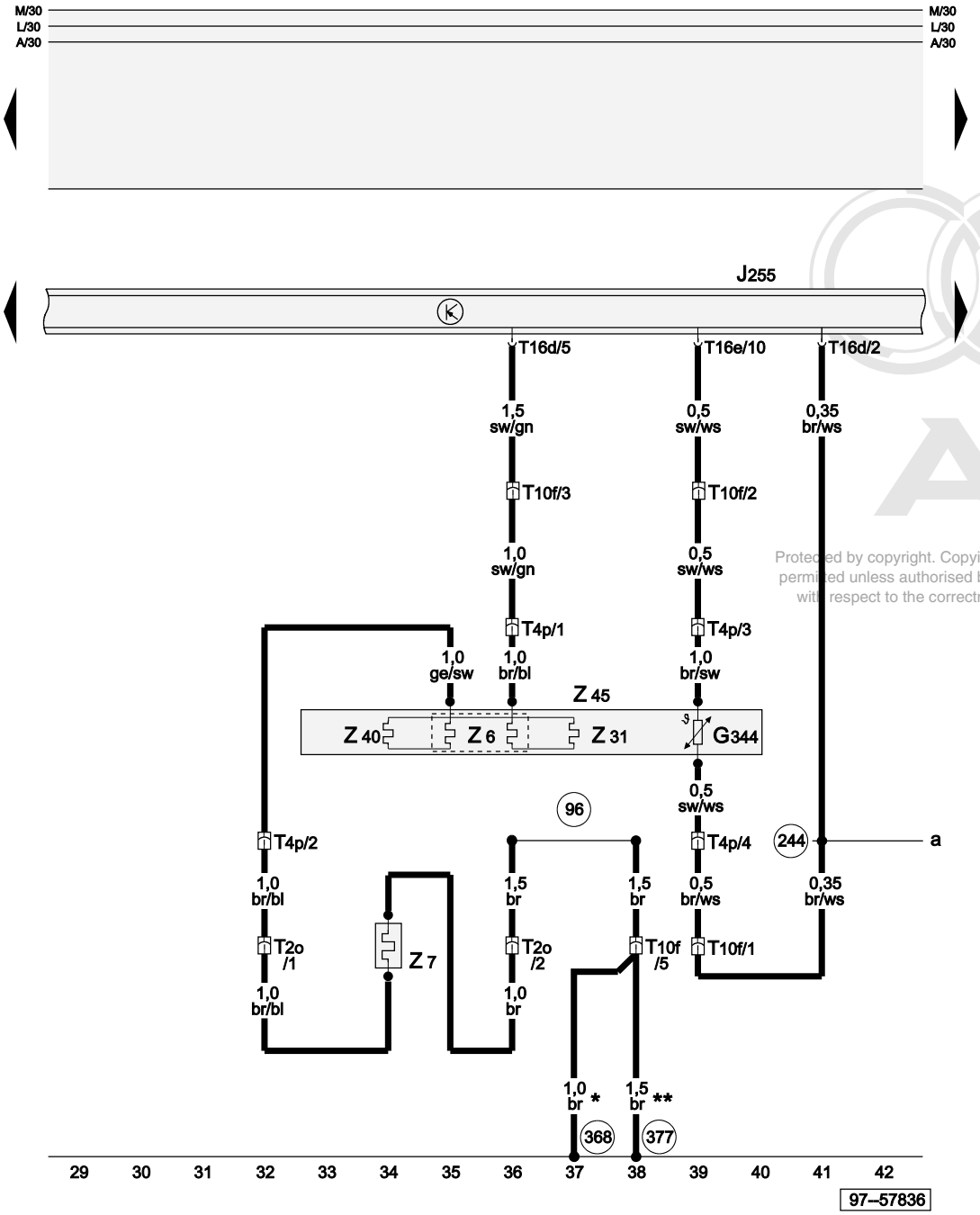
15 16 17 18 19 20 21 22 23 24 25 26 27 28

97–57835

Fuses on fuse box

D	Ignition/starter switch
J255	Climatronic control unit
J527	Steering column electronics control unit
SB53	Fuse 53 on fuse box
SC37	Fuse 37 on fuse box
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
B300	Positive (+) connection 4 (30), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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br	=	brown
gn	=	green
bl	=	blue
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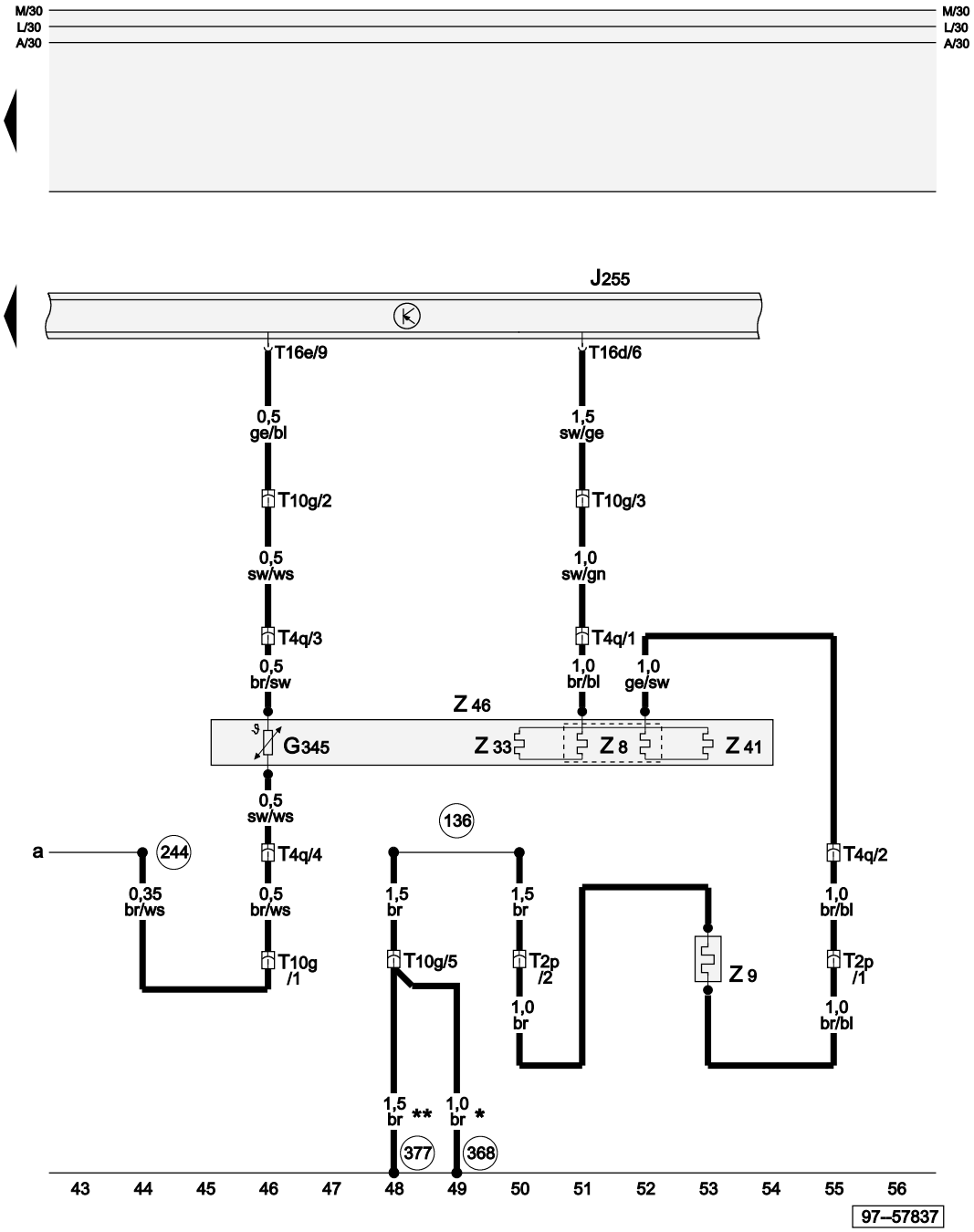


Heated driver's seat

G344	Temperature sensor for front left seat
J255	Climatronic control unit
T2o	2-pin connector, black, on driver's seat for heated backrest
T4p	4-pin connector, black, on heated driver's seat
T10f	10-pin connector, black/white, under driver's seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z6	Heated driver's seat cushion
Z7	Heated driver's seat backrest
Z31	Driver's seat lateral support heater
Z40	Driver's seat lateral support heater 2
Z45	Front left seat heating
96	Earth connection 1, in seat heating wiring harness
244	Earth connection (sender earth), in Climatronic wiring harness
368	Earth connection 3, in main wiring harness
377	Earth connection 12, in main wiring harness
*	Only applies to models with lumbar support adjustment
**	Only applies to models without lumbar support adjustment

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Heated front passenger's seat

G345	Temperature sensor for front right seat
J255	Climatronic control unit
T2p	2-pin connector, black, on front passenger's seat for heated backrest
T4q	4-pin connector, black, on heated front passenger's seat
T10g	10-pin connector, black/white, under front passenger's seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z8	Heated front passenger's seat cushion
Z9	Heated front passenger's seat backrest
Z33	Front passenger's seat lateral support heater
Z41	Front passenger's seat lateral support heater 2
Z46	Front right seat heating
136	Earth connection 2, in seat heating wiring harness
244	Earth connection (sender earth), in Climatronic wiring harness
368	Earth connection 3, in main wiring harness
377	Earth connection 12, in main wiring harness
*	Only applies to models with lumbar support adjustment
**	Only applies to models without lumbar support adjustment

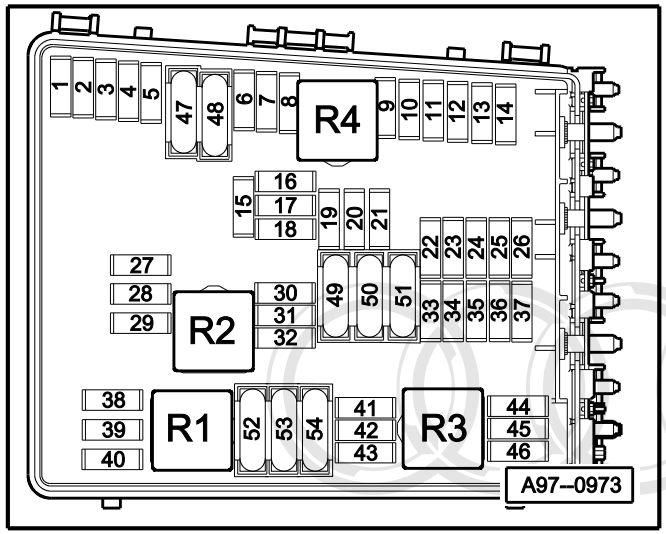
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Heated rear seats (models with and without air conditioning system)

From model year 2004

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

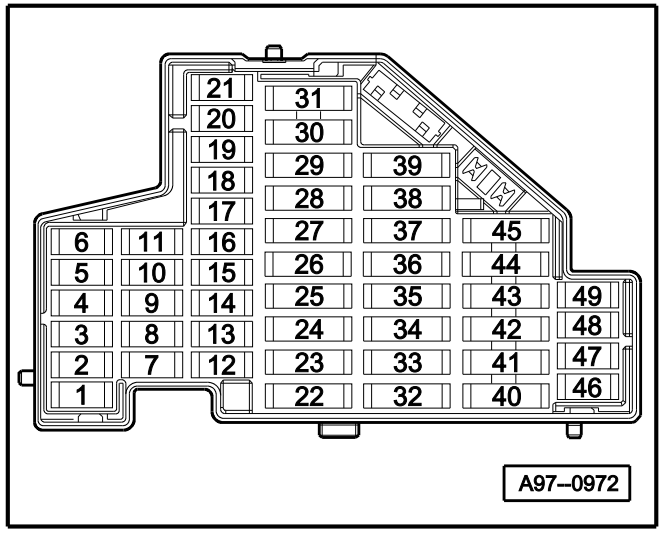
Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

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Fuse box



- Dash panel, driver's side

Fuse colours

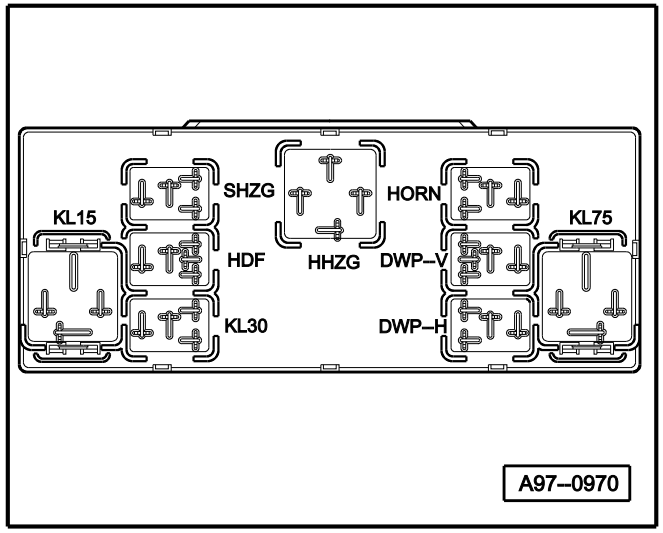
40 A - orange
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

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Onboard power supply control unit - J519



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♦ Dash panel, driver's side, bottom left

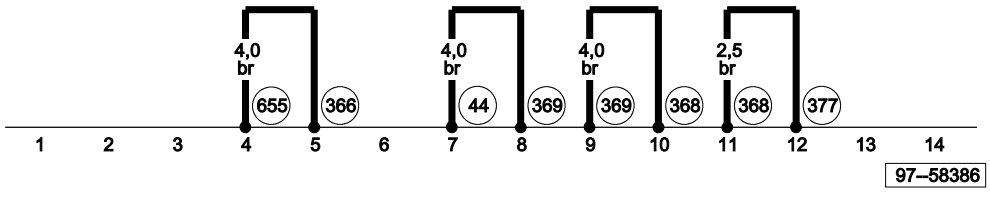
Position of relays

KL15 - Terminal 15 voltage supply relay -2- J681



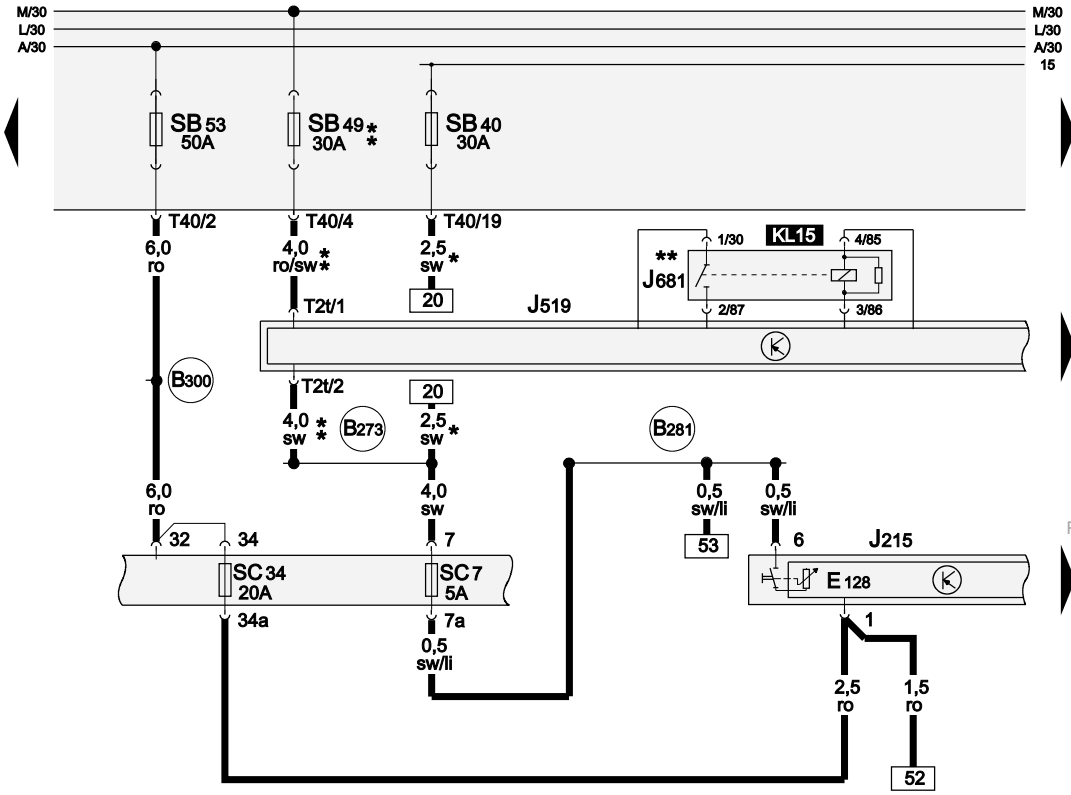
Earth points, earth connections

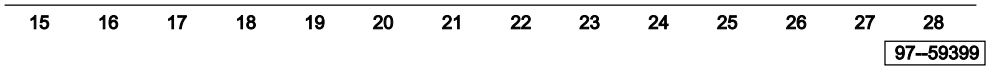
44	Earth point, lower part of left A pillar
366	Earth connection -1-, in main wiring harness
368	Earth connection -3-, in main wiring harness
369	Earth connection -4-, in main wiring harness
377	Earth connection -12-, in main wiring harness
655	Earth point, on left headlight



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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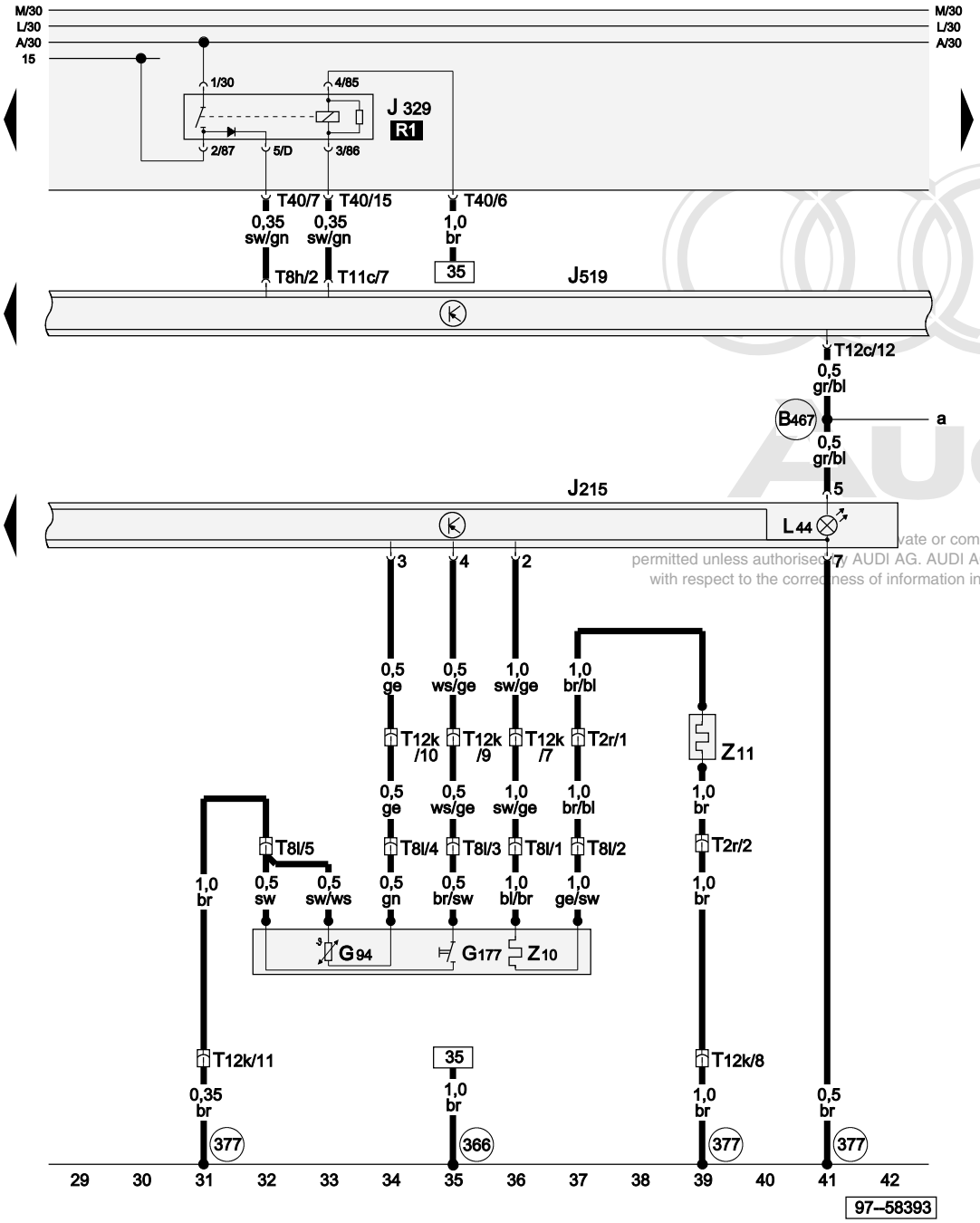


Fuses on fuse box, heated rear left seat control unit

E128	Heated rear left seat switch with regulator
J215	Heated rear left seat control unit
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse box
SB49	Fuse 49 on fuse box
SB53	Fuse 53 on fuse box
SC7	Fuse 7 on fuse box
SC34	Fuse 34 on fuse box
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
B273	Positive (+) connection (15), in main wiring harness
B281	Positive (+) connection 5 (15a), in main wiring harness
B300	Positive (+) connection 4 (30), in main wiring harness
*	Only applies to models with battery in engine compartment
**	Only applies to models with battery in luggage compartment

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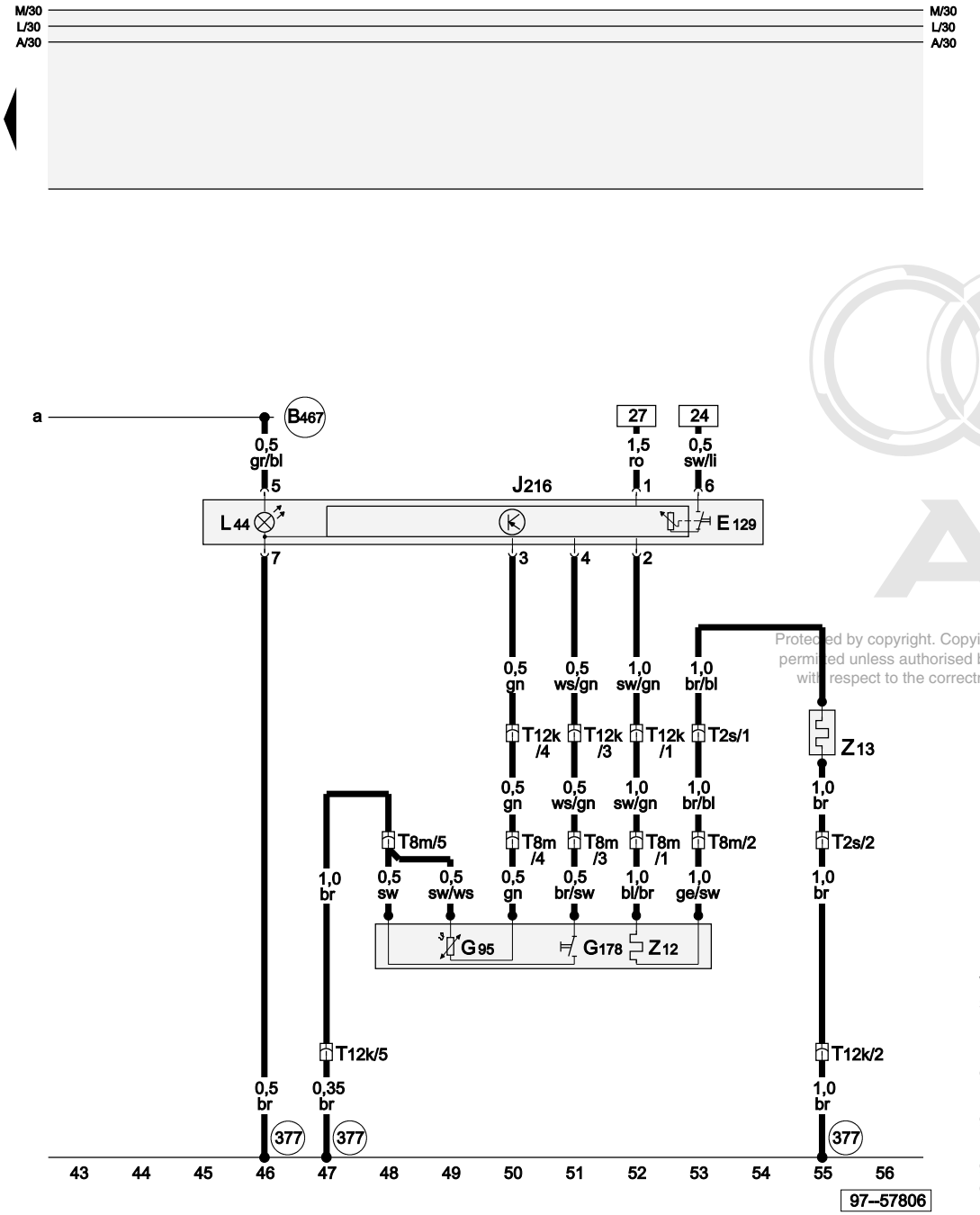


Heated rear left seat control unit, rear left seat temperature sensor

G94	Rear left seat temperature sensor
G177	Rear seat occupied sensor, driver's side
J215	Heated rear left seat control unit
J329	Terminal 15 voltage supply relay
J519	Onboard power supply control unit
L44	Light bulb in seat heating switch
T2r	2-pin connector, black, under rear seat bench
T8l	8-pin connector, black, on rear left seat
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T12c	12-pin connector, black (connector B)
T12k	12-pin connector, black, under rear seat bench
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
Z10	Heated rear left seat
Z11	Heated rear left seat backrest
366	Earth connection 1, in main wiring harness
377	Earth connection 12, in main wiring harness
B467	Connection 3, in main wiring harness

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or	=	orange
rs	=	pink



Heated rear right seat control unit, rear right seat temperature sensor

E129	Heated rear right seat switch with regulator
G95	Rear right seat temperature sensor
G178	Rear seat occupied sensor, front passenger's side
J216	Heated rear right seat control unit
L44	Seat heating switch light bulb
T2s	2-pin connector, black, under rear seat bench
T8m	8-pin connector, black, on rear right seat
T12k	12-pin connector, black, under rear seat bench
Z12	Heated rear right seat
Z13	Heated rear right seat backrest
377	Earth connection -12-, in main wiring harness
B467	Connection -3-, in main wiring harness

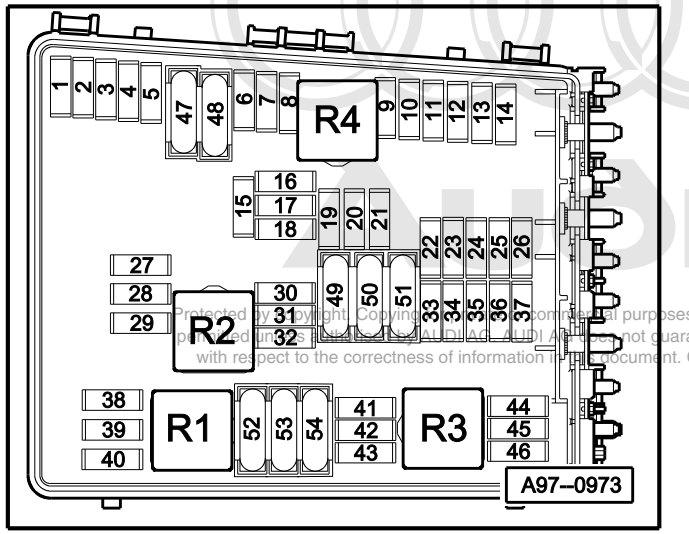
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Lumbar support adjustment

From model year 2004

Relay and fuse carrier, electronics box



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- In engine compartment, front left

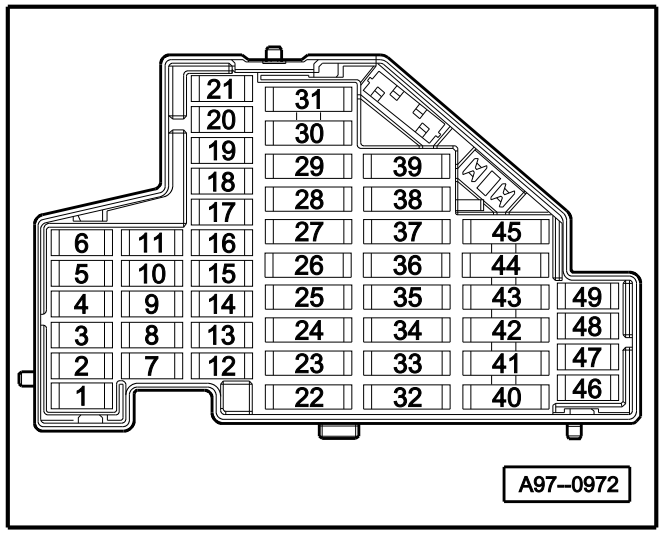
Fuse colours

50 A - red

Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Fuse box



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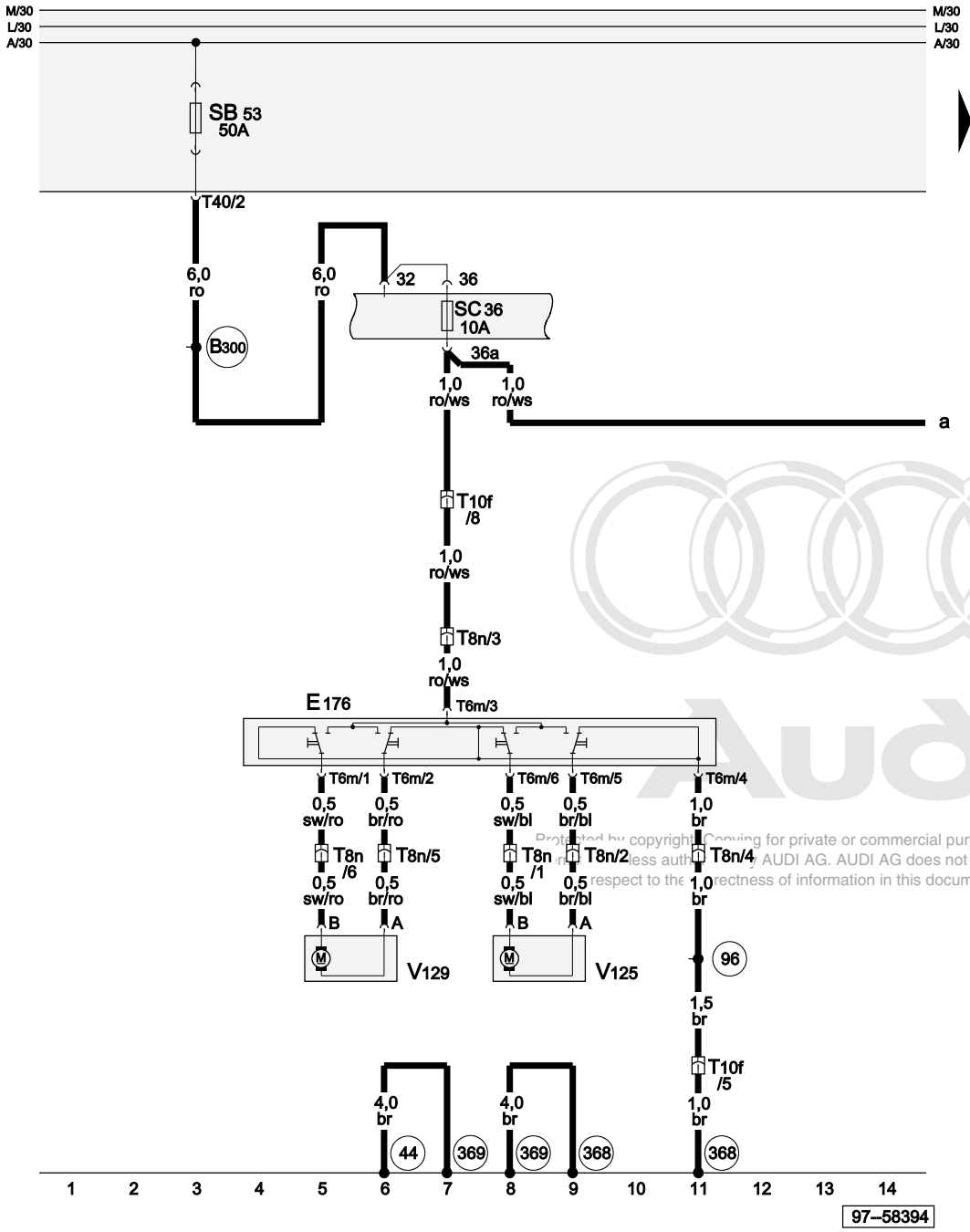
- Dash panel, driver's side

Fuse colours

10 A - red

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*



Lumbar support adjustment, driver's seat

E176	Lumbar support adjustment switch, driver's seat
SB53	Fuse -53- on fuse box
SC36	Fuse -36- on fuse box
T6m	6-pin connector, black, on lumbar support adjustment switch, driver's seat
T8n	8-pin connector, black, under driver's seat
T10f	10-pin connector, black/white, under driver's seat
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
V125	Lumbar support longitudinal adjustment motor, driver's seat
V129	Lumbar support height adjustment motor, driver's seat
44	Earth point, lower part of left A pillar
96	Earth connection -1-, in seat heating wiring harness
368	Earth connection -3-, in main wiring harness
369	Earth connection -4-, in main wiring harness
B300	Positive (+) connection -4- (30), in main wiring harness

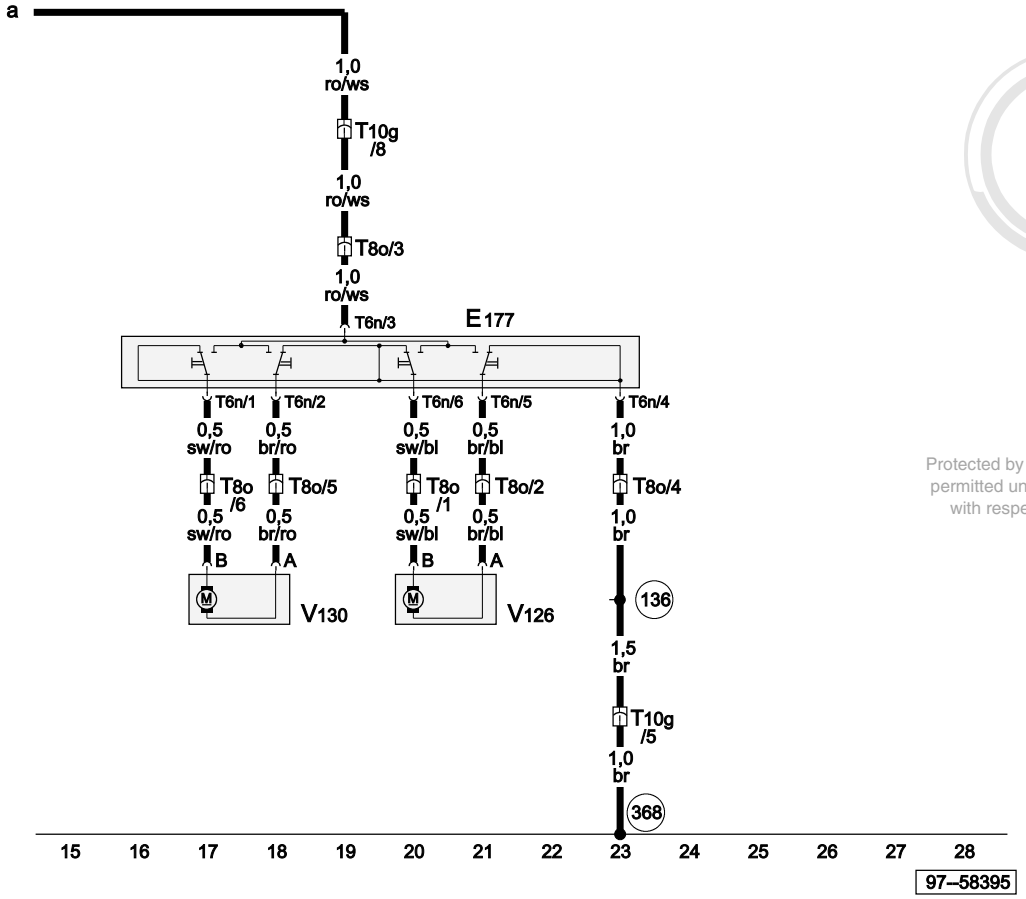
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ro	=	red
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gn	=	green
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Lumbar support adjustment, front passenger's seat

E177	Lumbar support adjustment switch, front passenger's seat
T6n	6-pin connector, black, on lumbar support adjustment switch, front passenger's seat
T8o	8-pin connector, black, under front passenger's seat
T10g	10-pin connector, black/white, under front passenger's seat
V126	Lumbar support longitudinal adjustment motor, front passenger's seat
V130	Lumbar support height adjustment motor, front passenger's seat
(136)	Earth connection -2-, in seat heating wiring harness
(368)	Earth connection -3-, in main wiring harness



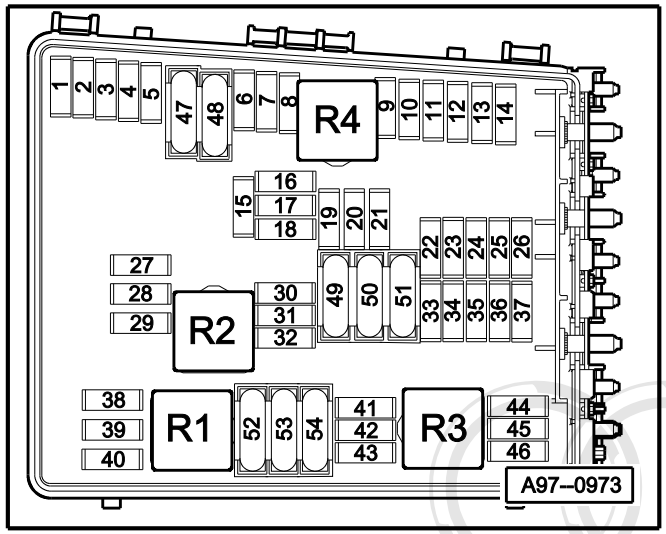
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or	=	orange
rs	=	pink

Direct shift gearbox (02E)

from model year 2004

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

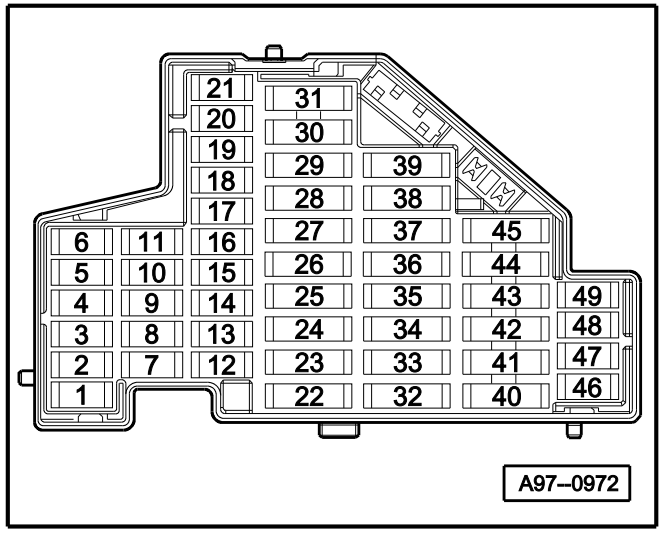
Note:

- *The fuses in electronics box are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329
R2 - Terminal 50 voltage supply relay - J682

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Fuse holder



♦ Driver side dash panel

Fuse colours

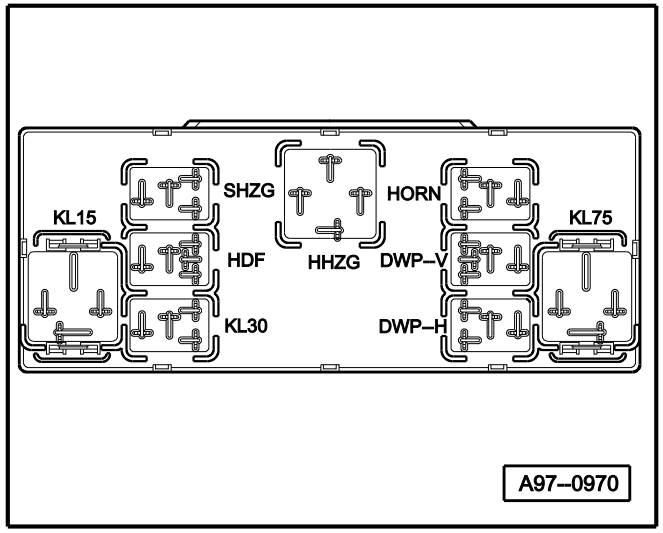
5 A - beige

Note:

♦ *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

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Onboard supply control unit - J519

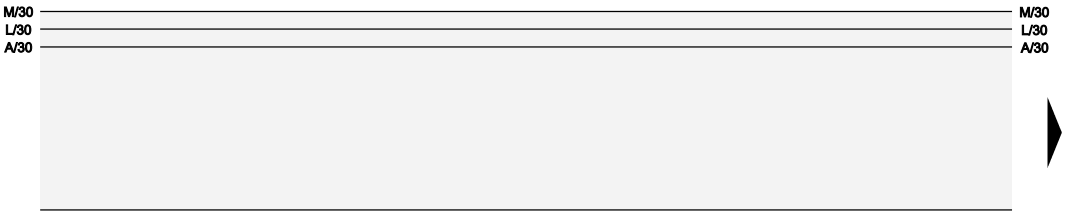


♦ Dash panel, driver side, bottom left

Position of relays

KL15 - Terminal 15 voltage supply relay 2 - J681

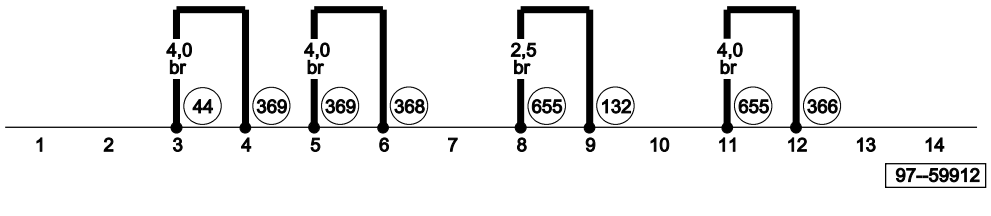
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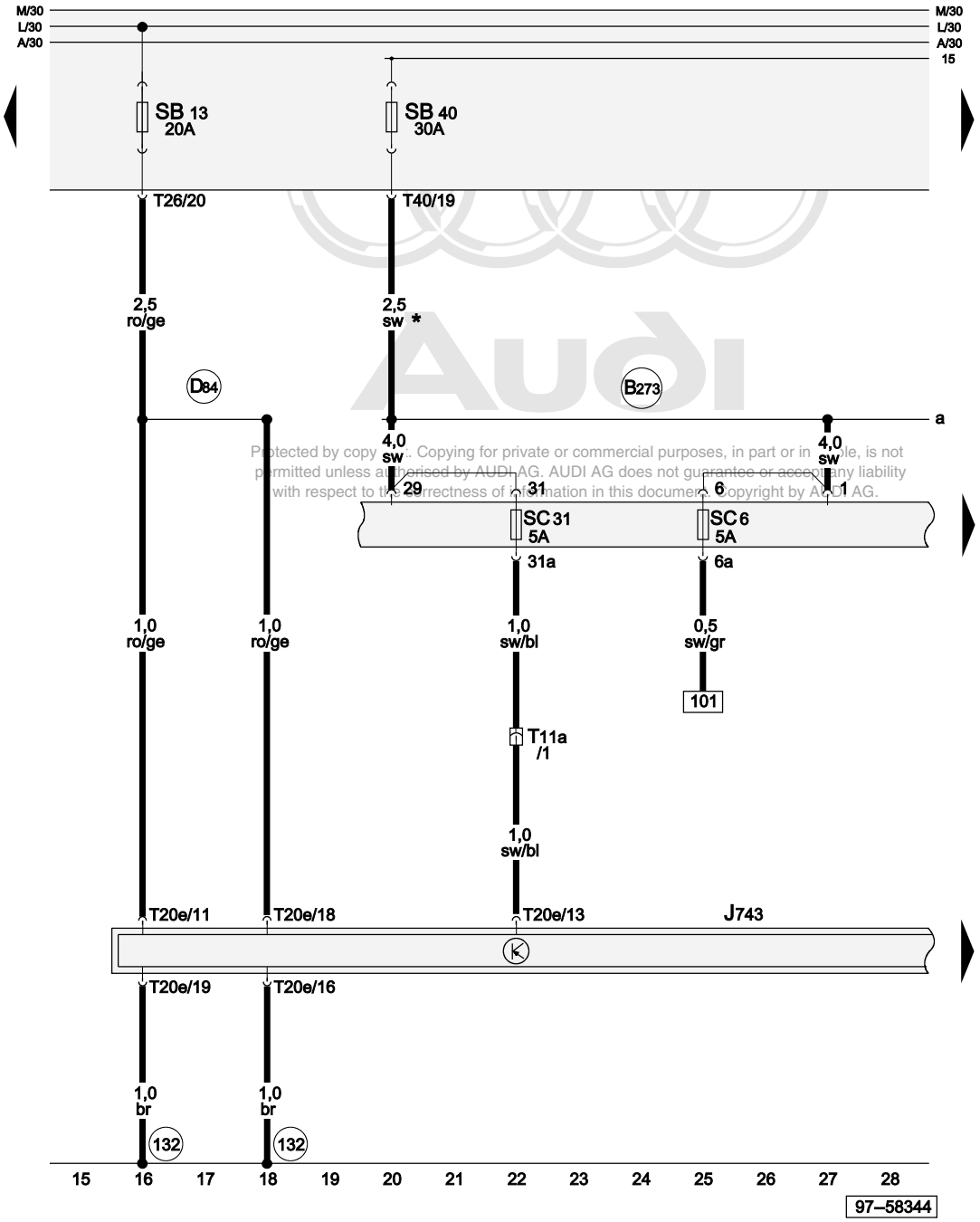
Earth points and earth connections

- 44 Earth point, lower part of left A-pillar
- 132 Earth connection 3, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 655 Earth point, on left headlight

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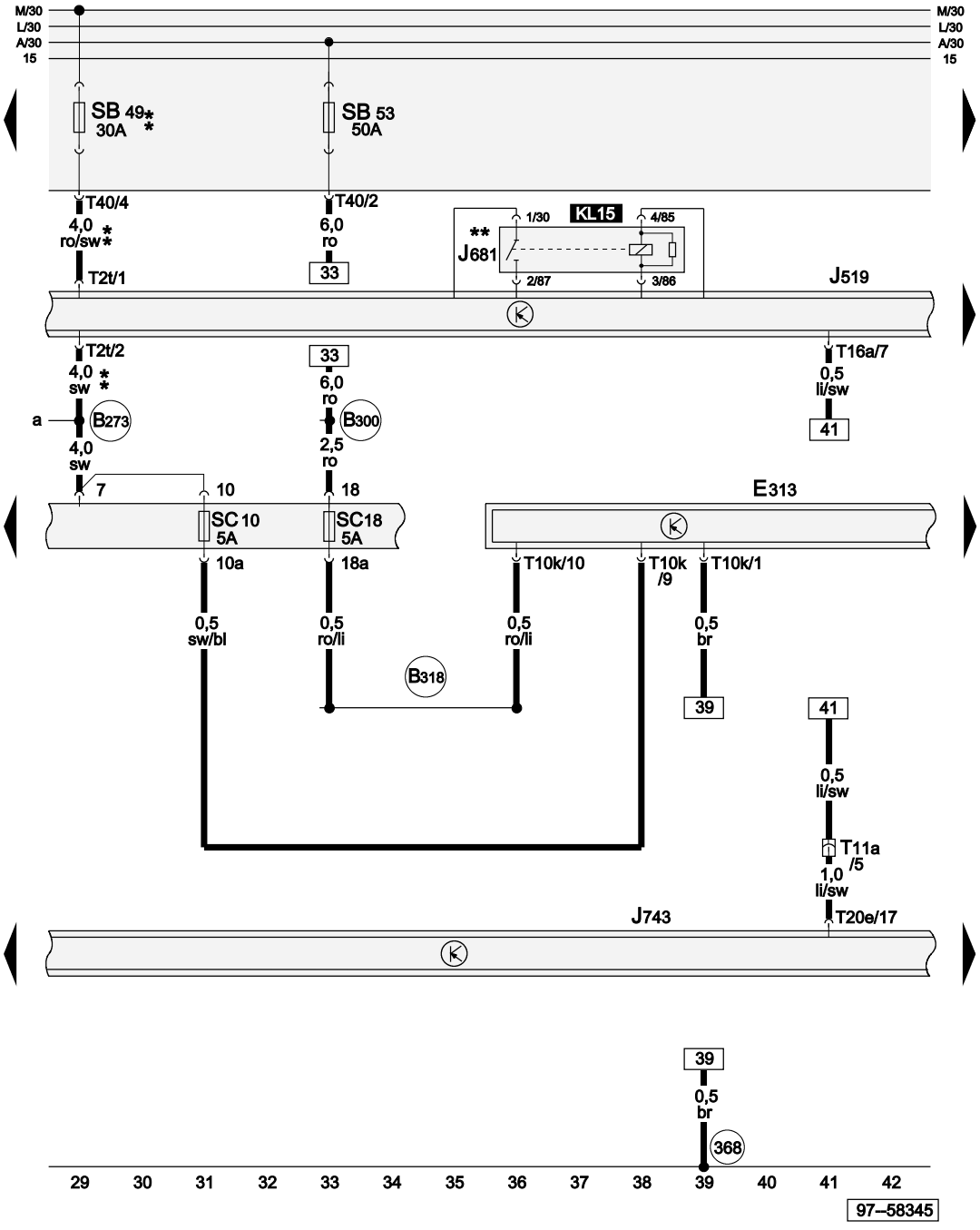


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Fuses on fuse holder

J743	Mechatronics for direct shift gearbox
SB13	Fuse 13 on fuse holder
SB40	Fuse 40 on fuse holder
SC6	Fuse 6 on fuse holder
SC31	Fuse 31 on fuse holder
T11a	11-pin connector, red, in plenum chamber
T20e	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
132	Earth connection 3, in engine compartment wiring harness
B273	Positive connection (15), in main wiring harness
D84	Connection (automatic gearbox), in engine compartment wiring harness
*	⇒ Applicable Current Flow Diagram, basic equipment with battery in engine compartment

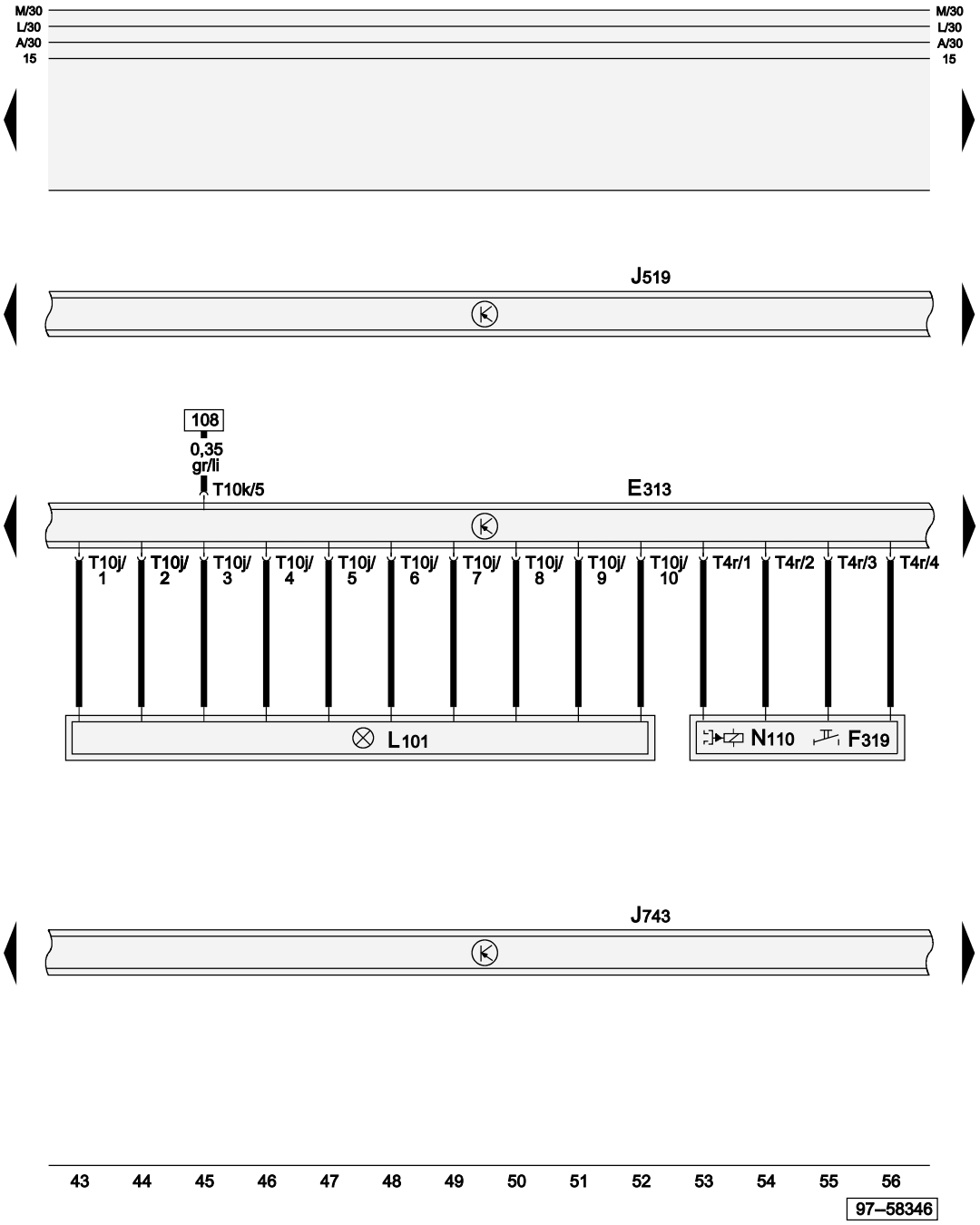


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Selector lever, fuses on fuse holder

E313	Selector lever
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
J743	Mechatronics for direct shift gearbox
SB49	Fuse 49 on fuse holder
SB53	Fuse 53 on fuse holder
SC10	Fuse 10 on fuse holder
SC18	Fuse 18 on fuse holder
T2t	2-pin connector, black (connector L)
T10k	10-pin connector, black, on selector lever
T11a	11-pin connector, red, in plenum chamber
T16a	16-pin connector, black (connector E)
T20e	20-pin connector, black (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
B318	Positive connection 4 (30a), in main wiring harness
**	⇒ Applicable Current Flow Diagram, basic equipment with battery in luggage compartment

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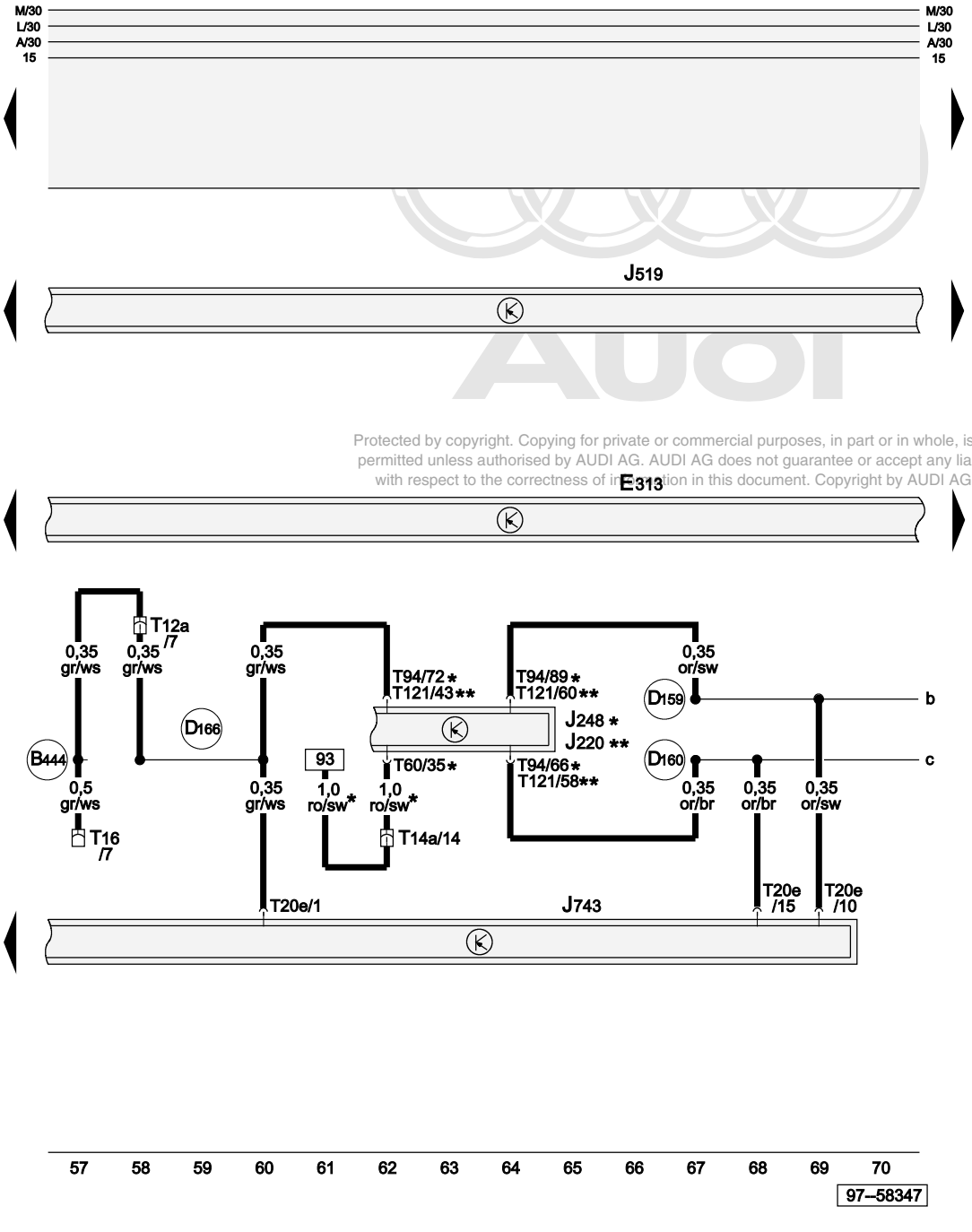


Selector lever, selector lever locked in position P switch, selector lever lock solenoid

E313	Selector lever
F319	Selector lever locked in position P switch
J743	Mechatronics for direct shift gearbox
J519	Onboard supply control unit
L101	Selector lever display illumination bulb
N110	Selector lever lock solenoid
T4r	4-pin connector, on selector lever
T10j	10-pin connector, black, on selector lever
T10k	10-pin connector, black, on selector lever

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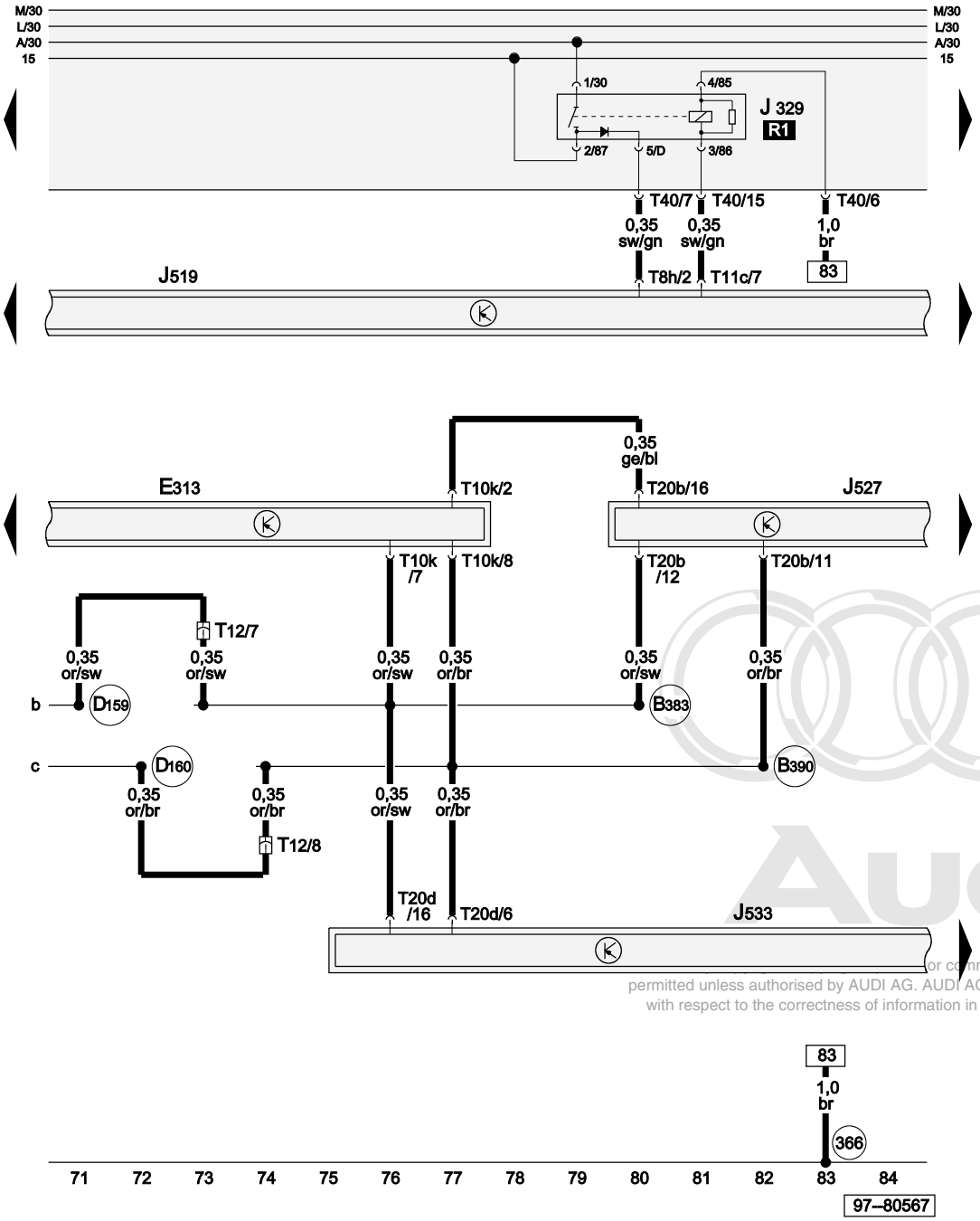


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Drive train CAN bus, K-diagnosis wiring, selector lever

E313	Selector lever
J220	Motronic control unit
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
J743	Mechatronics for direct shift gearbox
T12a	12-pin connector, blue, in plenum chamber
T14a	14-pin connector, black, near relay carrier electronics box
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20e	20-pin connector, black (connector A)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B444	Connection -1- (diagnosis), in main wiring harness
D159	Connection (high bus), in engine compartment wiring harness
D160	Connection (low bus), in engine compartment wiring harness
D166	Connection (K-diagnosis wiring), in engine compartment wiring harness
*	For models with engine codes AZV, BKD only
**	For models with engine code BDB only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



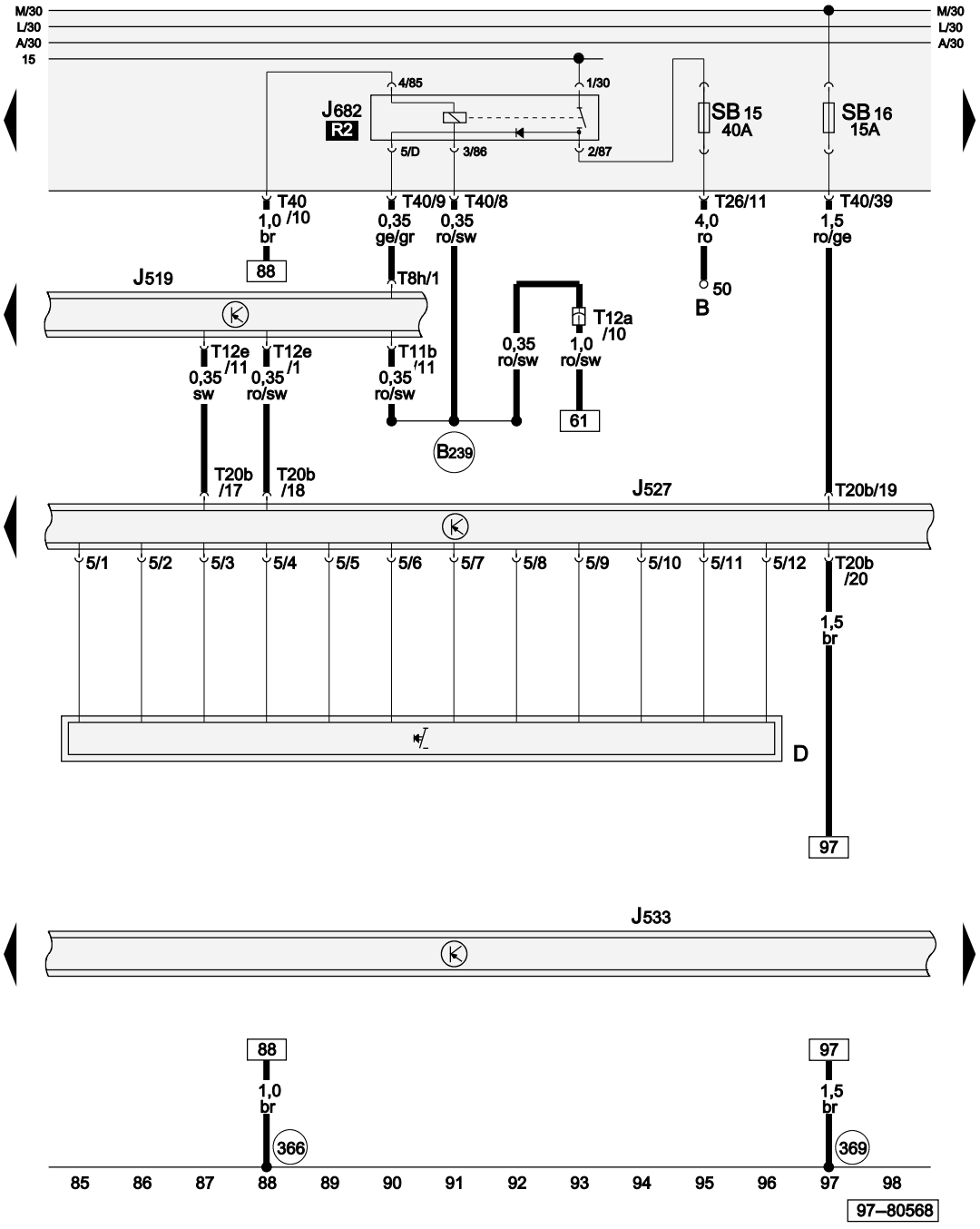
Terminal 15 voltage supply relay, selector lever

E313	Selector lever
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T8h	8-pin connector, black (connector F)
T10k	10-pin connector, black, on selector lever
T11c	11-pin connector, brown (connector D)
T12	12-pin connector, green, in plenum chamber
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
D159	Connection (high bus), in engine compartment wiring harness
D160	Connection (low bus), in engine compartment wiring harness

ws	=	white
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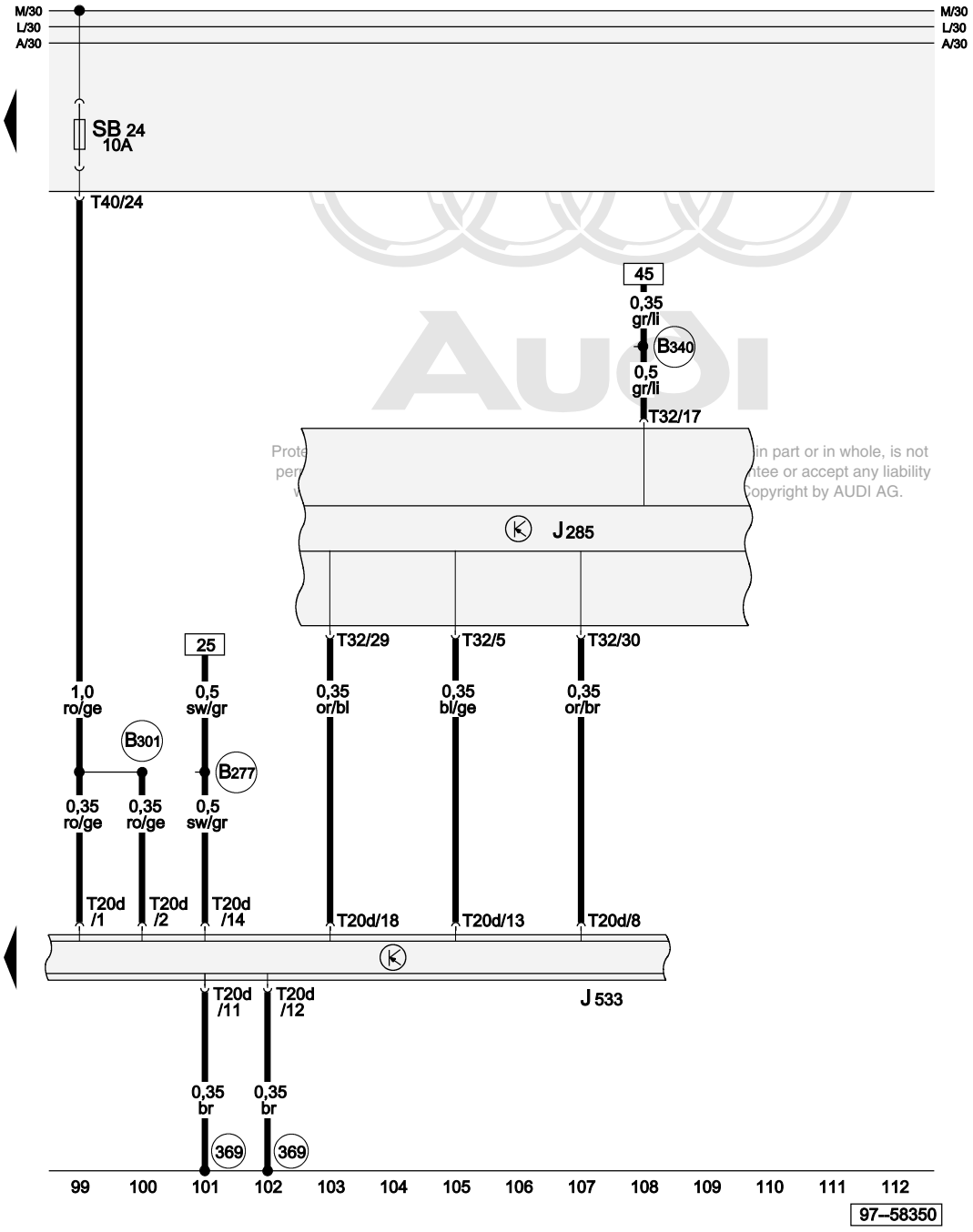


Ignition/starter switch, terminal 50 voltage supply relay

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12a	12-pin connector, blue, in plenum chamber
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness

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rs	=	pink



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Data bus diagnostic interface, control unit in dash panel insert

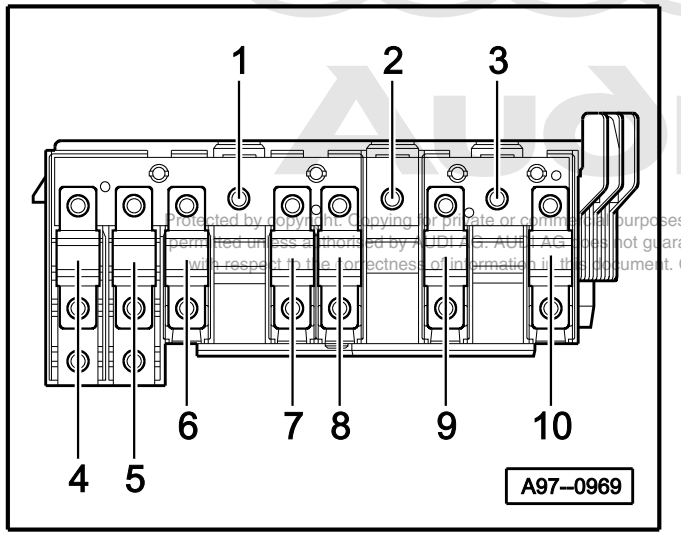
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B340	Connection 1 (58d), in main wiring harness

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1.6 l - Fuel injection engine (85 kW - FSI - 4 cylinder), engine code BAG

from model year 2004

Main fuse holder, electronics box



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- On electronics box, in engine compartment, front left

Main supply connection
2 - Screw connection M (terminal 30)

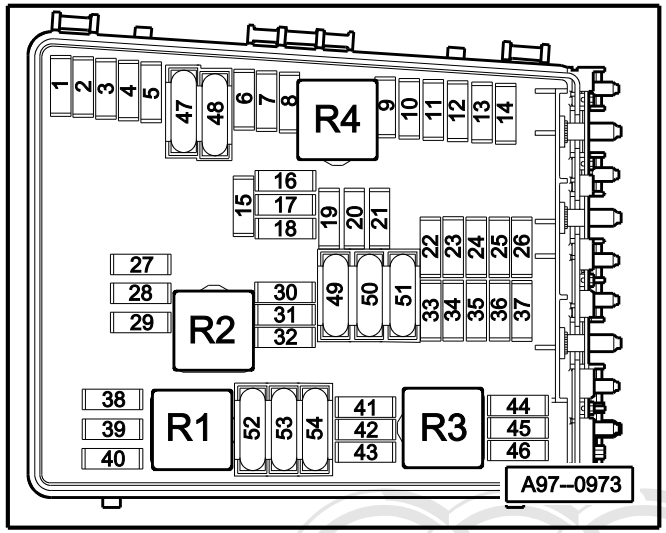
Fuse locations
4 - Fuse -1- on fuse holder/battery (SA1)

9 - Fuse -6- on fuse holder/battery (SA6)

Note:

- *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

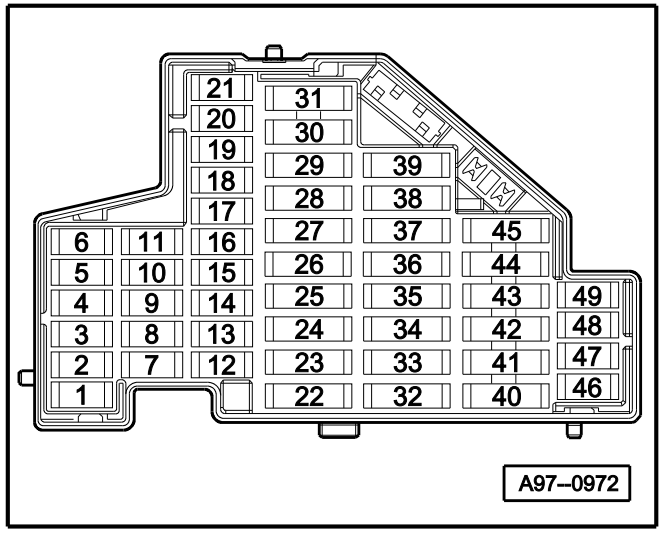
Note:

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- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329
R2 - Terminal 50 voltage supply relay - J682
R4 - Motronic current supply relay - J271

Fuse holder



- Driver side dash panel

Fuse colours

15 A - blue
10 A - red
5 A - beige

Note:

- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

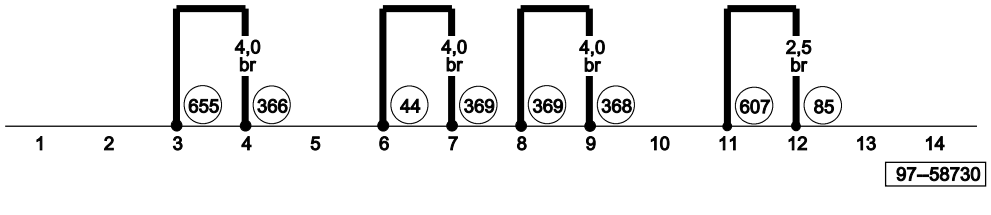
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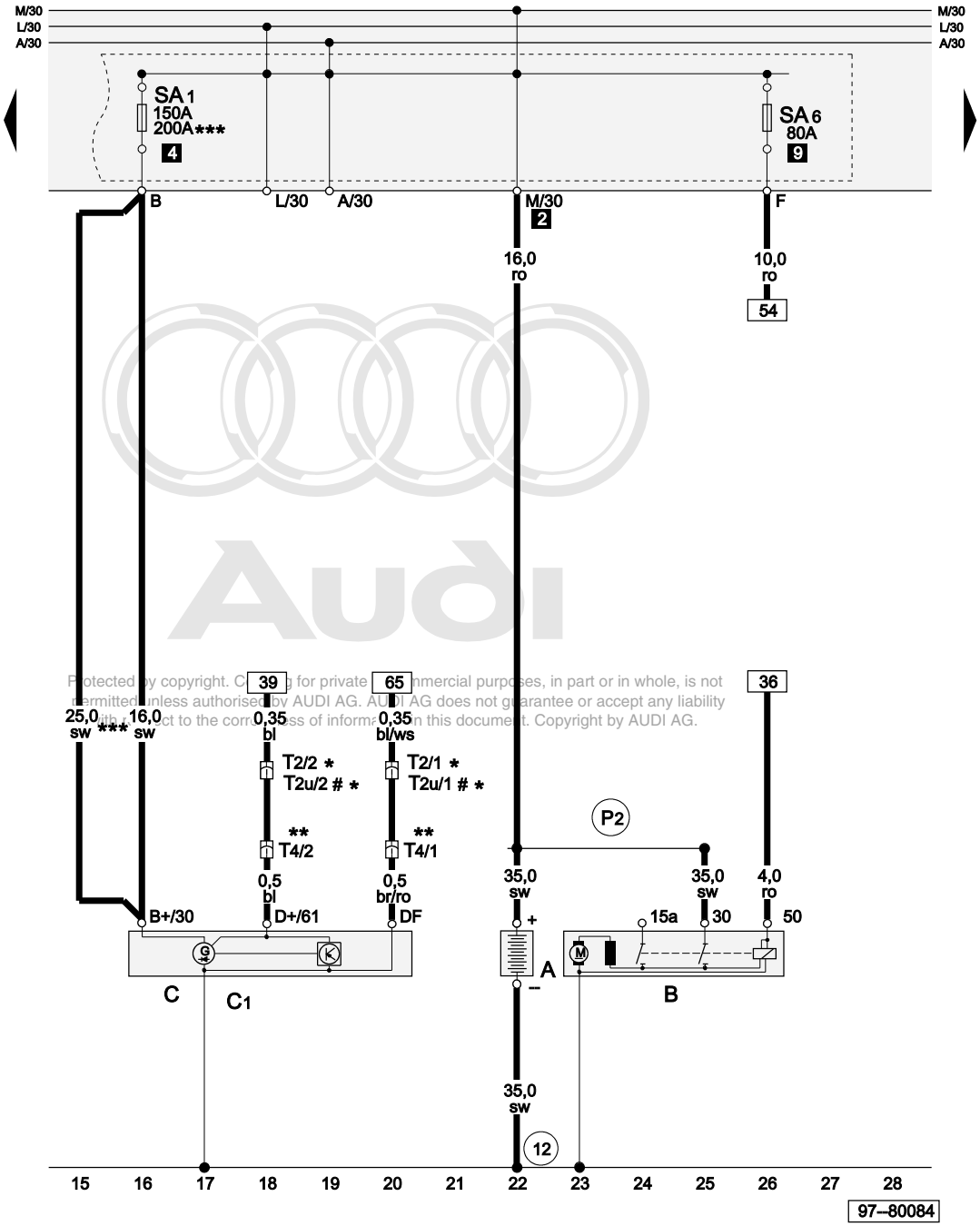
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Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection -1-, in engine compartment wiring harness
- 366 Earth connection -1-, in main wiring harness
- 368 Earth connection -3-, in main wiring harness
- 369 Earth connection -4-, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

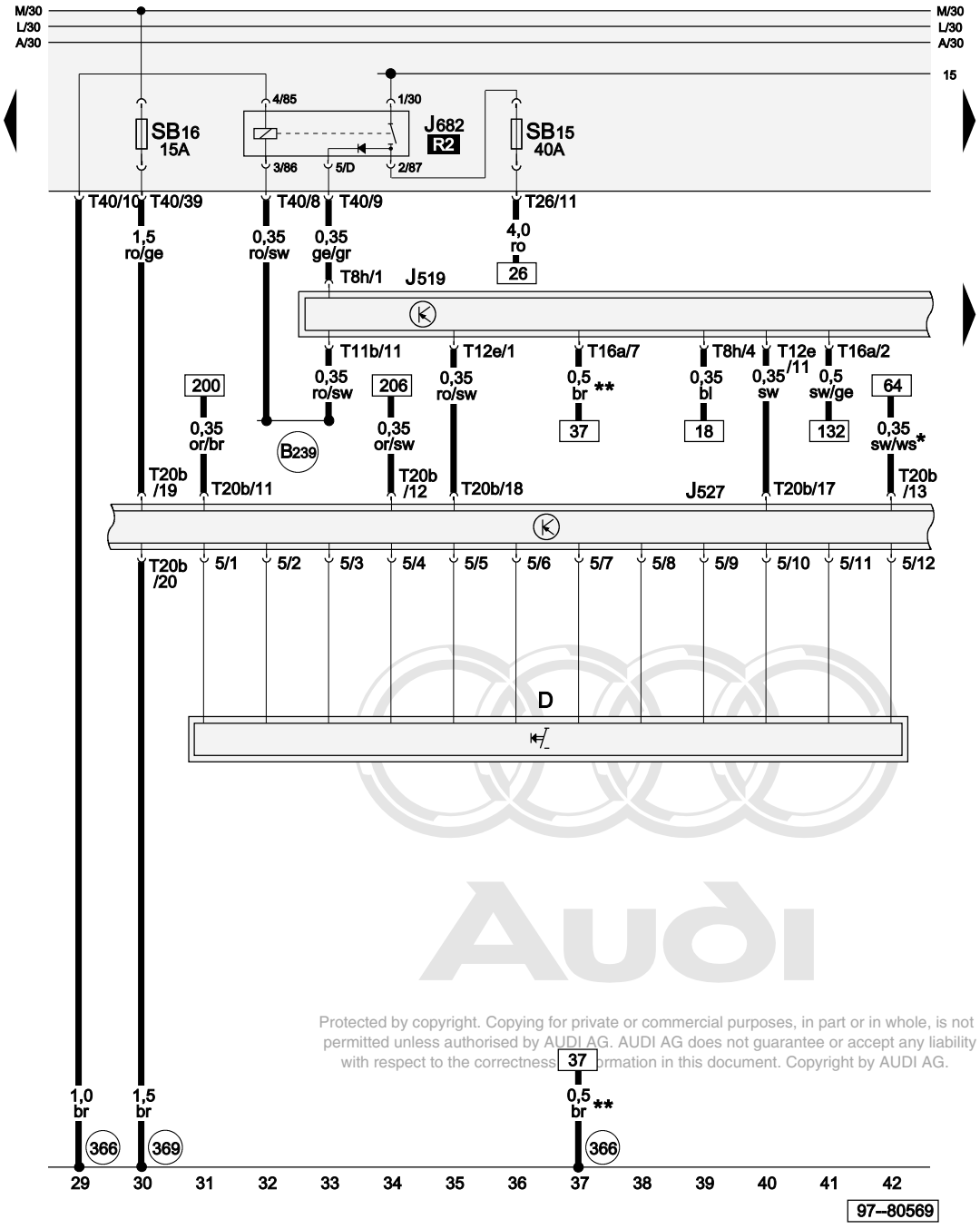


Battery, starter, alternator

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
SA1	Fuse -1- on fuse holder/battery
SA6	Fuse -6- on fuse holder/battery
T2	2-pin connector, black, in front left engine compartment
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
(12)	Earth point, on left in engine compartment
(P2)	Positive connection (30), in battery wiring harness
*	For models without air conditioner only
**	For models with air conditioning system only
***	For models with alternator only (140A)
#	T2 is replaced by T2u, applicable from November 2003

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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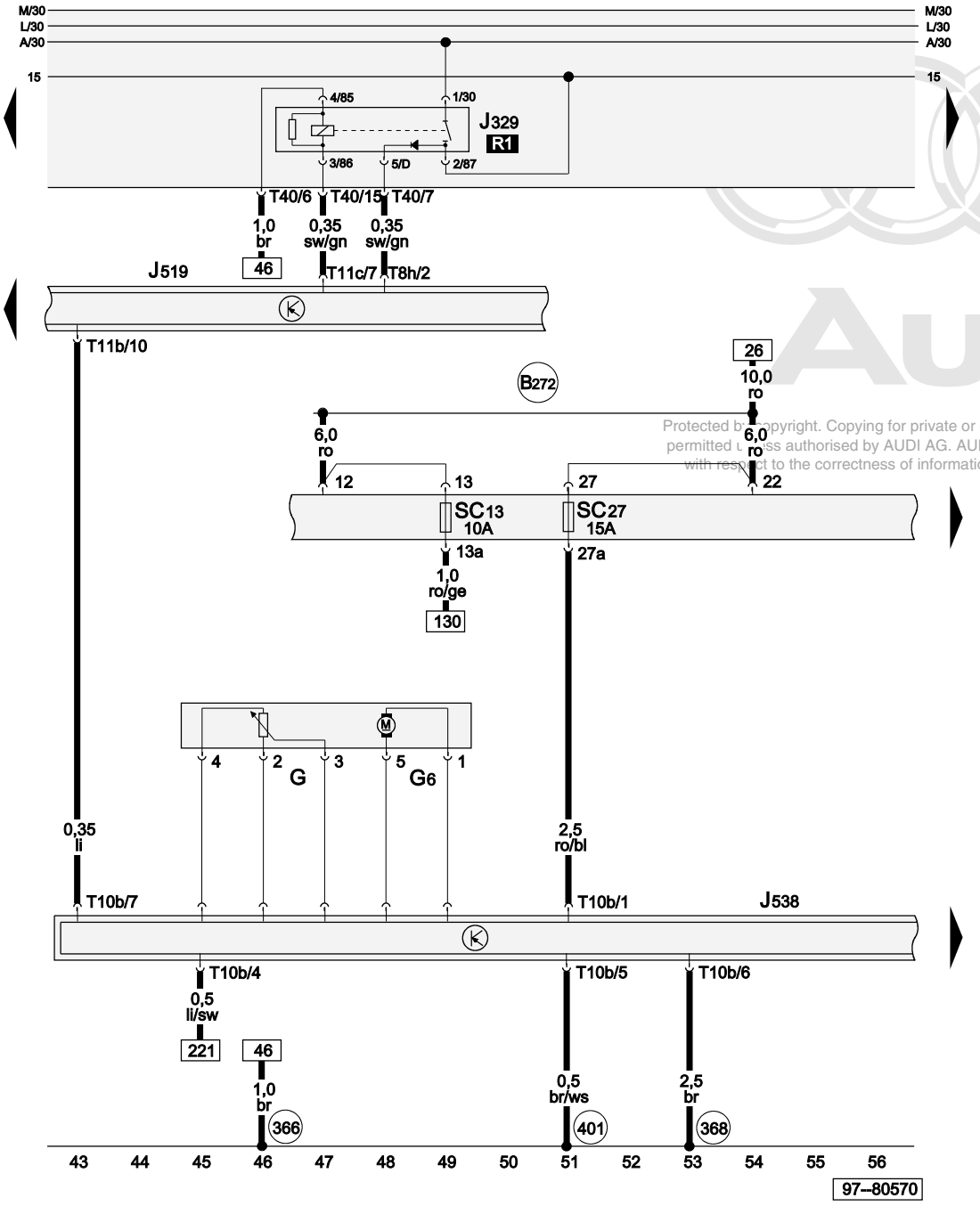


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Terminal 50 voltage supply relay, ignition/starter switch

D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse -15- on fuse holder
SB16	Fuse -16- on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T16a	16-pin connector, black (connector E)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection -1-, in main wiring harness
369	Earth connection -4-, in main wiring harness
B239	Positive connection -1- (50), in interior wiring harness
*	For models with cruise control system only
**	For models with manual gearbox only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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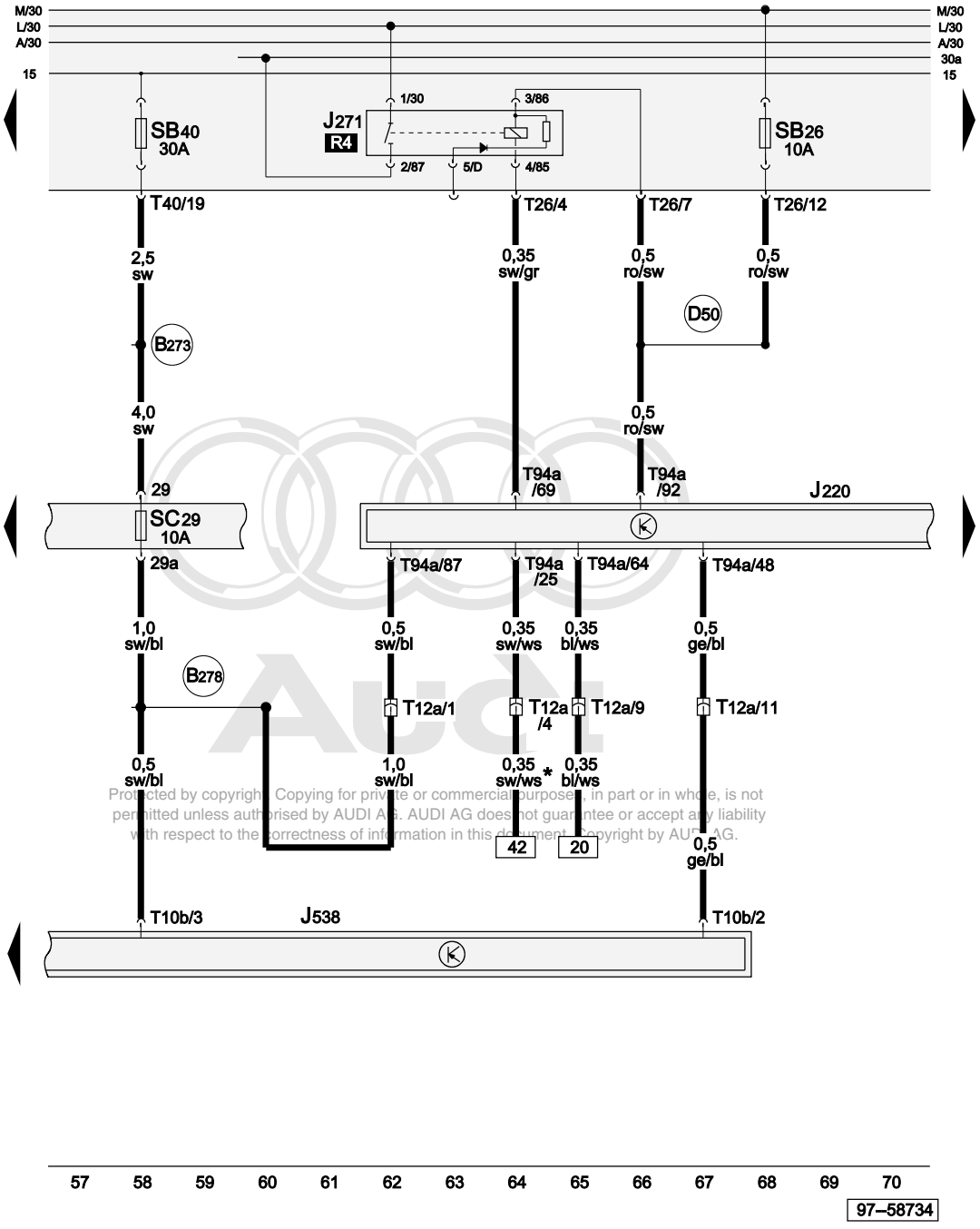


Fuel gauge sender, fuel pump, terminal 15 voltage supply relay, fuses

G	Fuel gauge sender
G6	Fuel pump (pre-supply pump)
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J538	Fuel pump control unit
SC13	Fuse -13- on fuse holder
SC27	Fuse -27- on fuse holder
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection -1-, in main wiring harness
368	Earth connection -3-, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness

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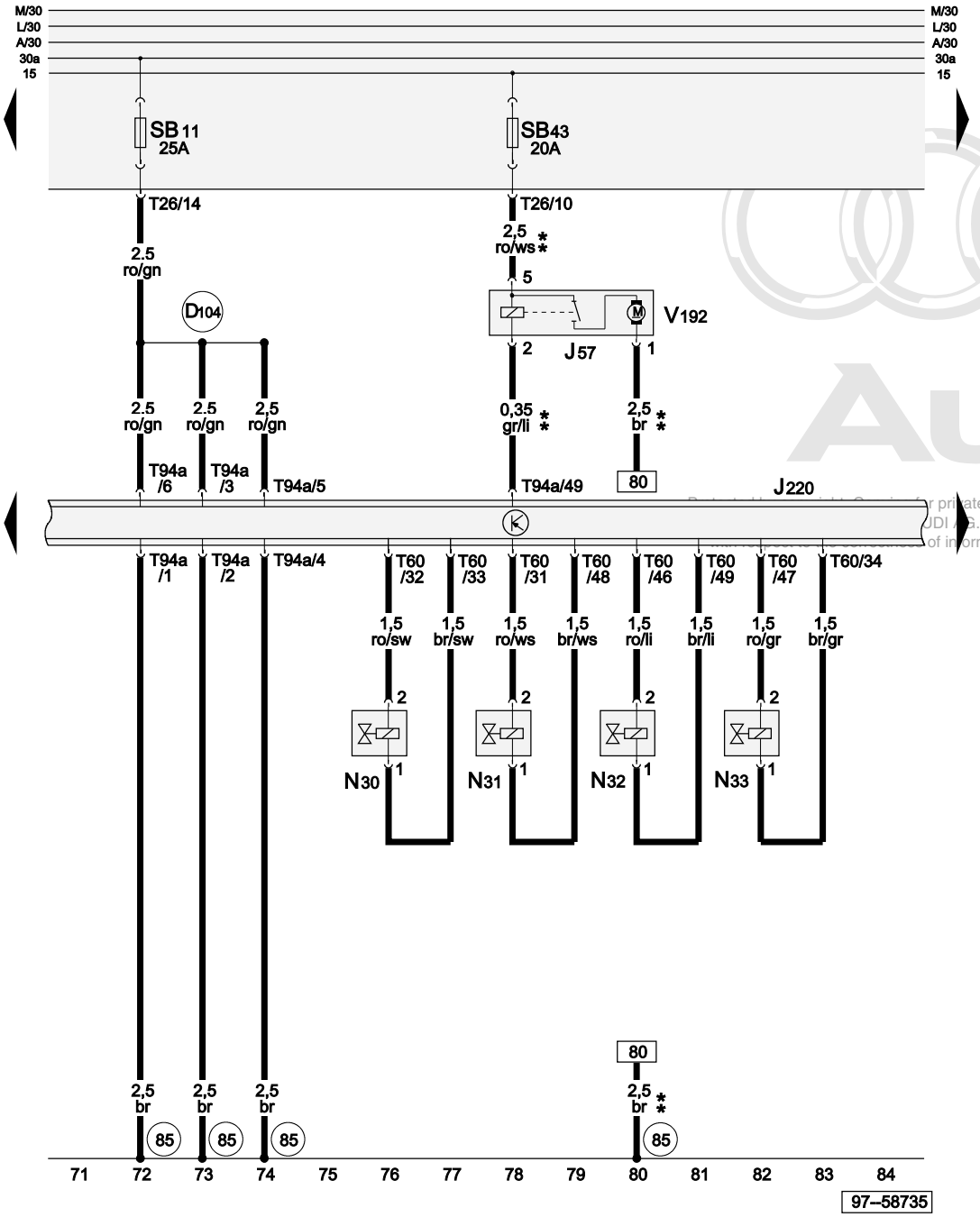


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Motronic current supply relay, fuses

J220	Motronic control unit
J271	Motronic current supply relay
J538	Fuel pump control unit
SB26	Fuse -26- on fuse holder
SB40	Fuse -40- on fuse holder
SC29	Fuse -29- on fuse holder
T10b	10-pin connector, black (connector A)
T12a	12-pin connector, blue, in plenum chamber
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T94a	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection -2- (15a), in main wiring harness
D50	Positive connection (30), in engine compartment wiring harness
*	For models with cruise control system only

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sw	=	black
ro	=	red
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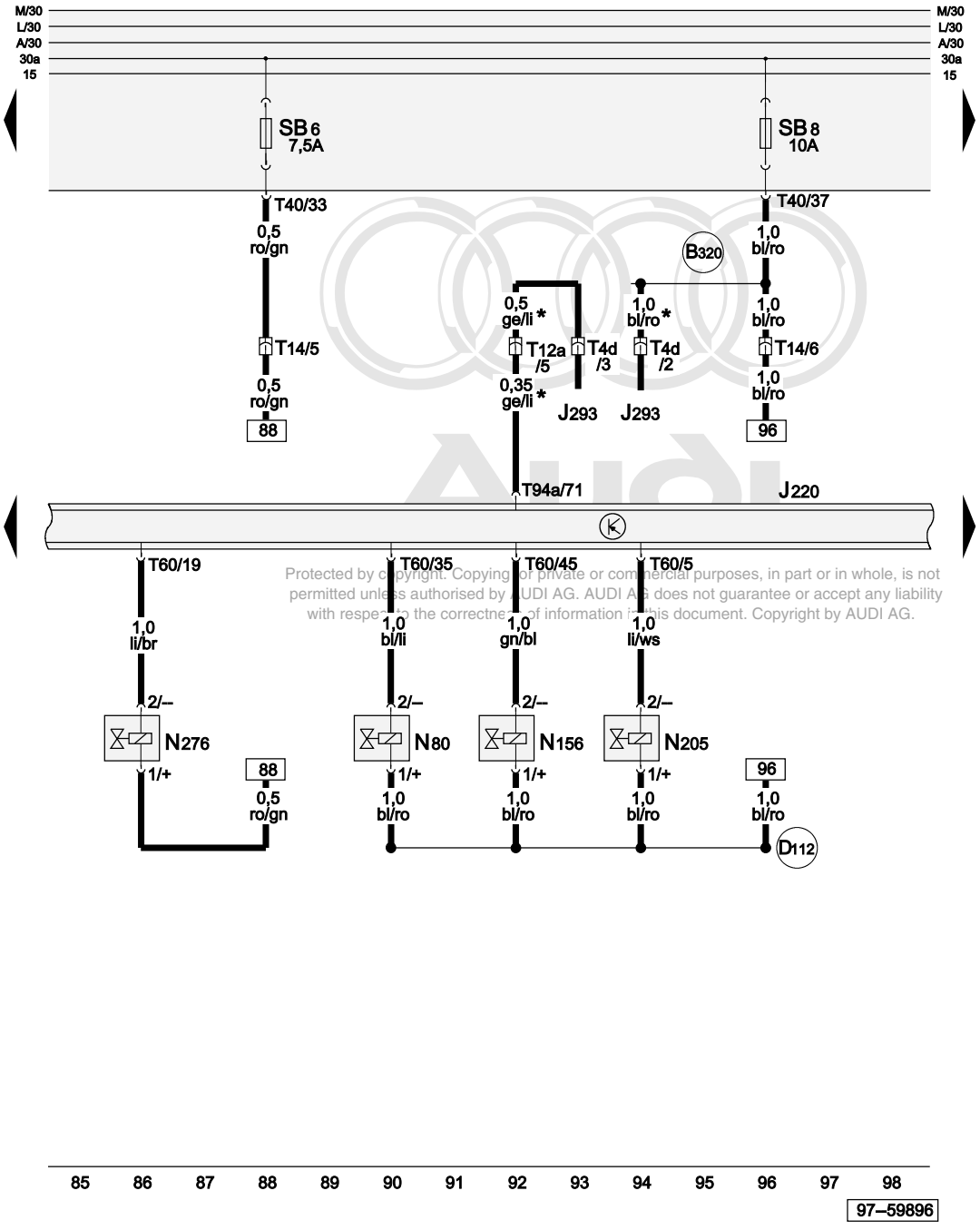


Injectors, vacuum pump for brakes

J57	Vacuum pump relay
J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SB11	Fuse -11- on fuse holder
SB43	Fuse -43- on fuse holder
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
V192	Vacuum pump for brakes
85	Earth connection -1-, in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
**	For models with automatic gearbox only

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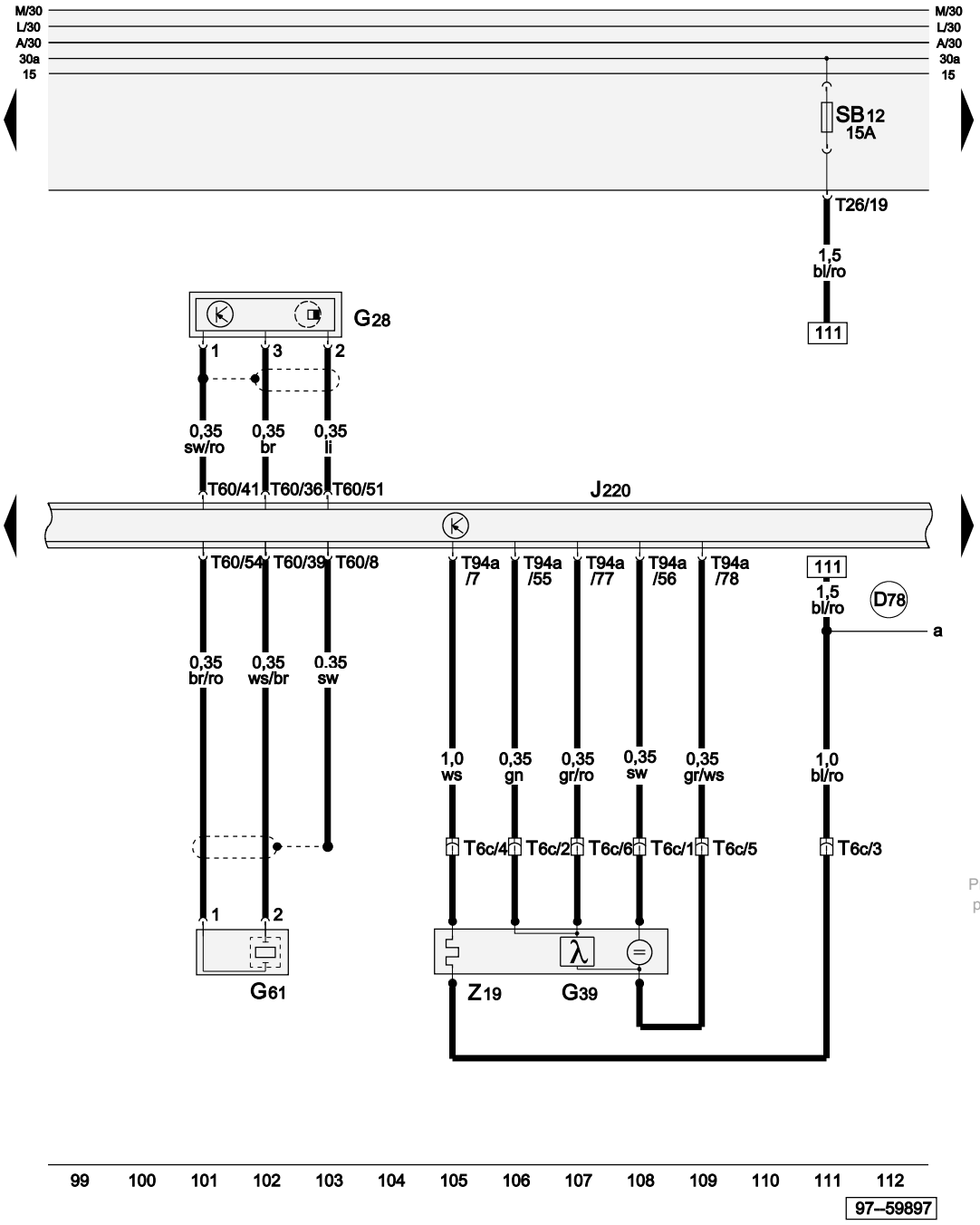


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Solenoid valves

J220	Motronic control unit
J293	Radiator fan control unit
N80	Activated charcoal filter system solenoid valve 1 (pulsed)
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve -1-
N276	Fuel pressure regulating valve
SB6	Fuse -6- on fuse holder
SB8	Fuse -8- on fuse holder
T4d	4-pin connector, black, on radiator fan (front end)
T12a	12-pin connector, blue, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
B320	Positive connection -6- (30a), in main wiring harness
D112	Connection -10-, in engine compartment wiring harness
*	See applicable Current Flow Diagram: radiator fan control

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sw	=	black
ro	=	red
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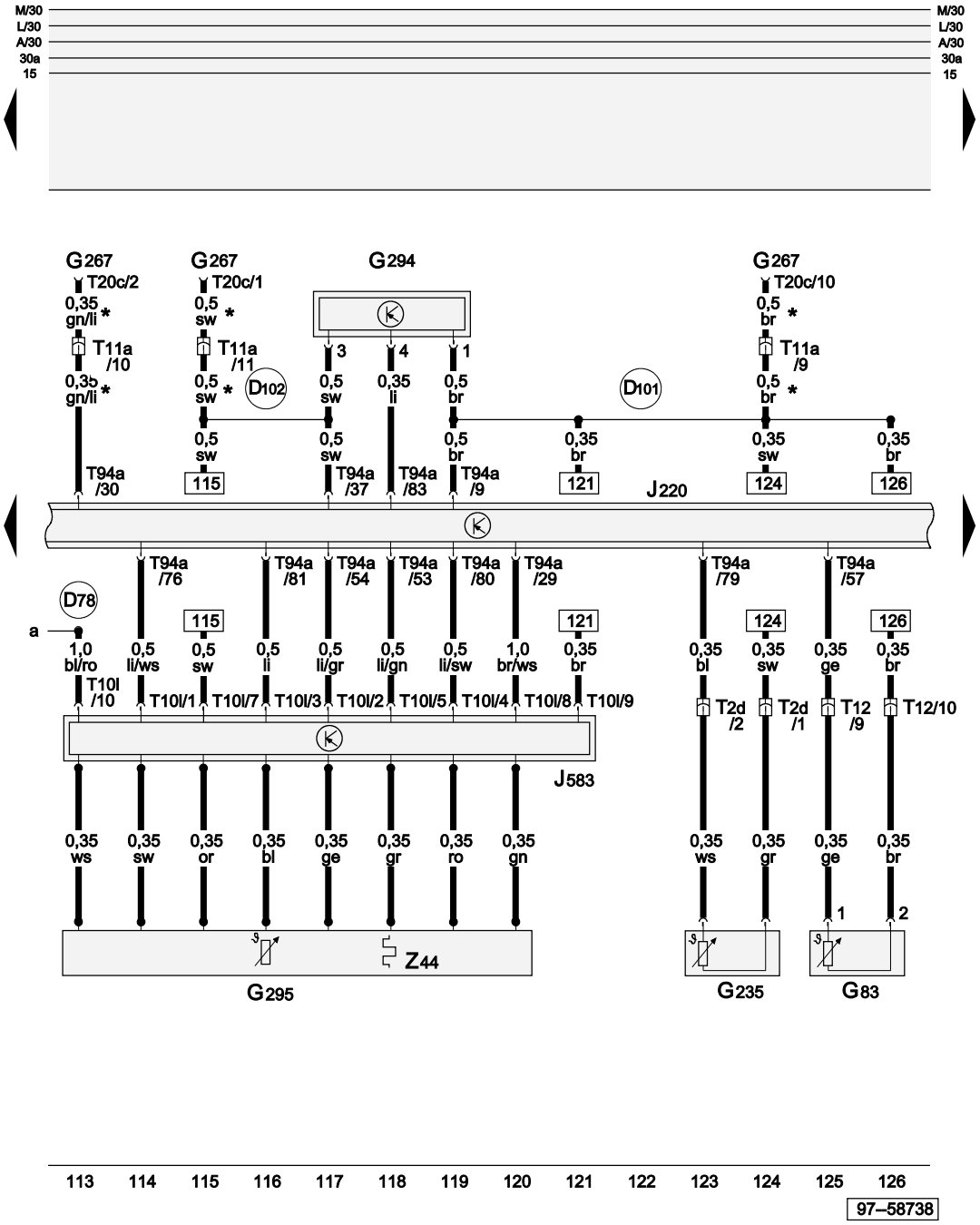


Engine speed sender, knock sensor 1, lambda probe

G28	Engine speed sender
G39	Lambda probe
G61	Knock sensor I
J220	Motronic control unit
SB12	Fuse -12- on fuse holder
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
Z19	Lambda probe heater
D78	Positive connection 1 (30a), in engine compartment wiring harness

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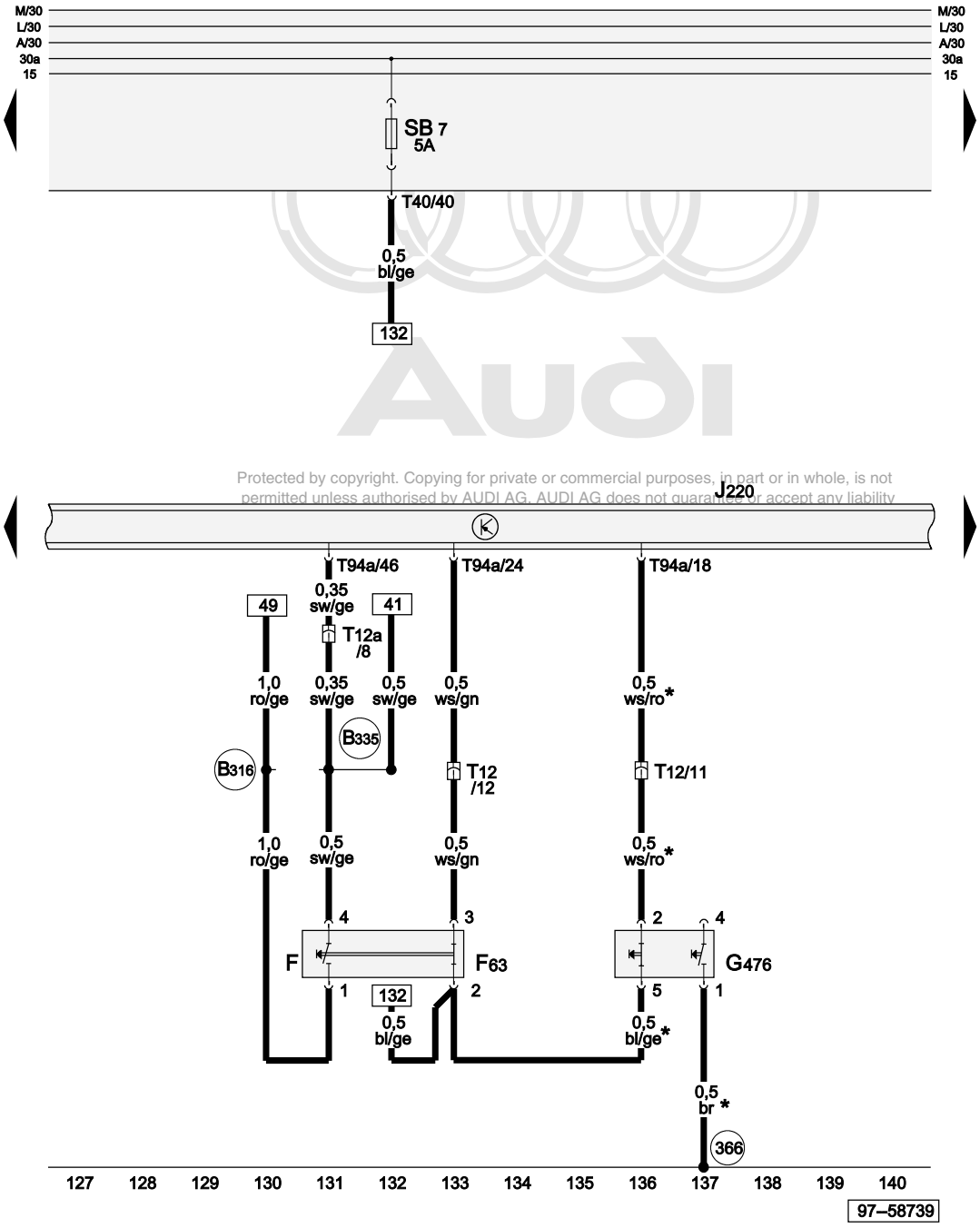


Exhaust gas temperature sender 1, brake servo pressure sensor

G83	Radiator outlet coolant temperature sender
G235	Exhaust gas temperature sender 1
G267	Potentiometer, temperature selection rotary knob
G294	Brake servo pressure sensor
G295	NOx sender
J220	Motronic control unit
J583	NOx sensor control unit
T2d	2-pin connector, black, on exhaust gas temperature sender 1
T10l	10-pin connector, black, on NOx sensor control unit
T11a	11-pin connector, red, in plenum chamber
T12	12-pin connector, green, in plenum chamber
T20c	20-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
Z44	NOx sender heater
D78	Positive connection 1 (30a), in engine compartment wiring harness
D101	Connection -1-, in engine compartment wiring harness
D102	Connection -2-, in engine compartment wiring harness
*	For models without air conditioner only

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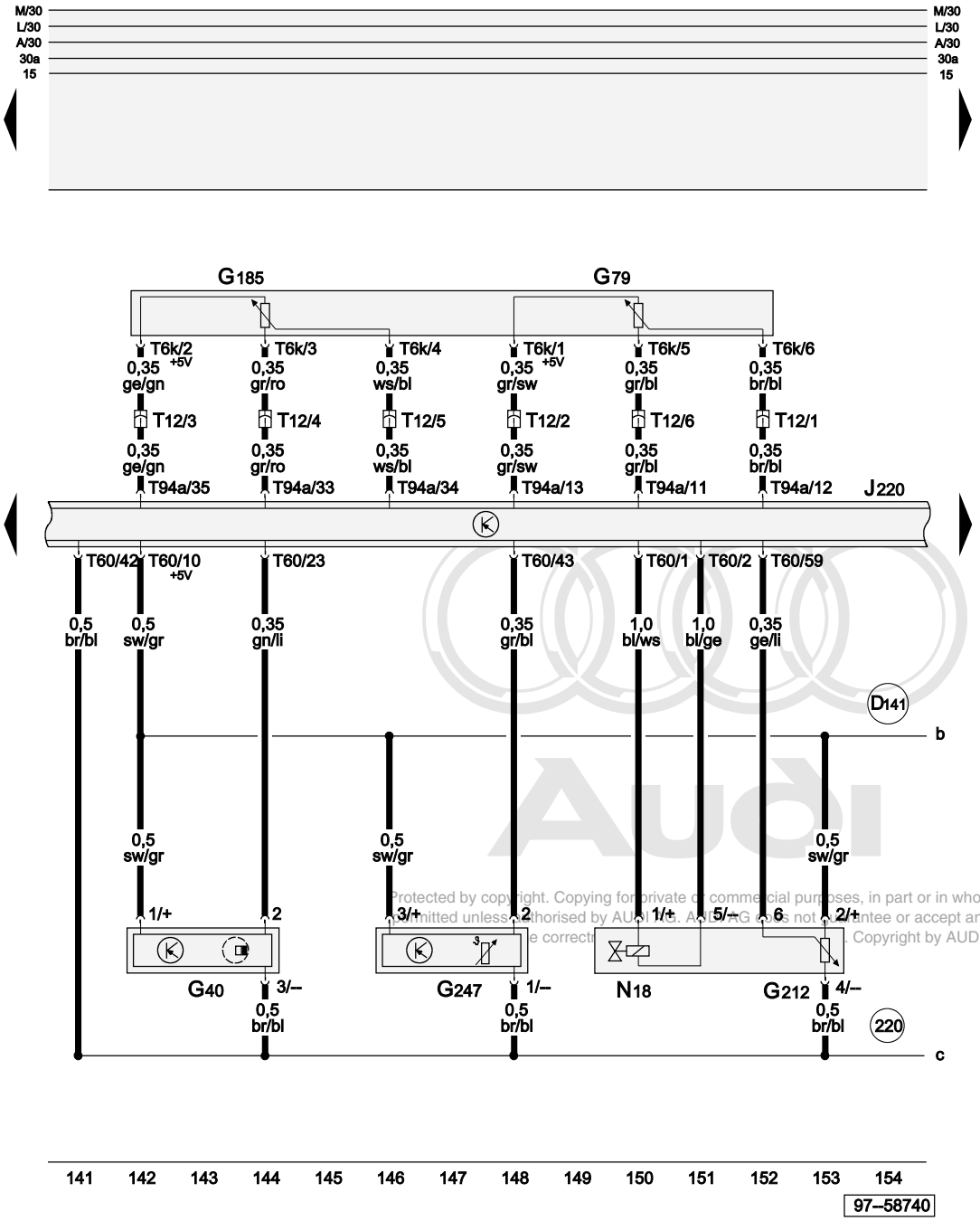


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Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
SB7	Fuse -7- on fuse holder
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T94a	94-pin connector, black (connector B)
366	Earth connection -1-, in main wiring harness
B316	Positive connection -2- (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	For models with manual gearbox only

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sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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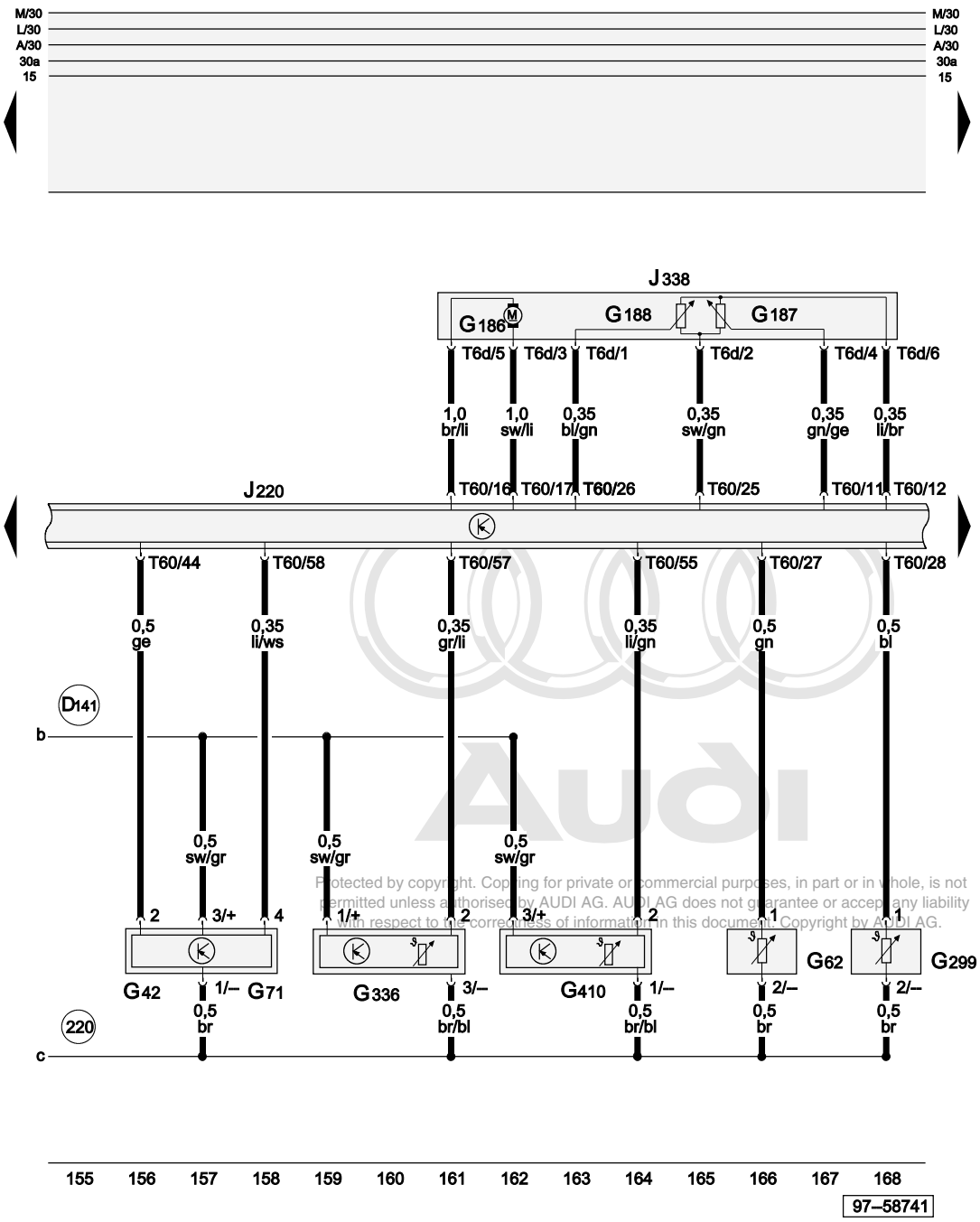


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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Hall sender, accelerator position sender, exhaust gas recirculation potentiometer, fuel pressure sender

G40	Hall sender
G79	Accelerator position sender
G185	Accelerator position sender -2-
G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
J220	Motronic control unit
N18	Exhaust gas recirculation valve
T6k	6-pin connector, black, near accelerator position sender
T12	12-pin connector, green, in plenum chamber
T60	60-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

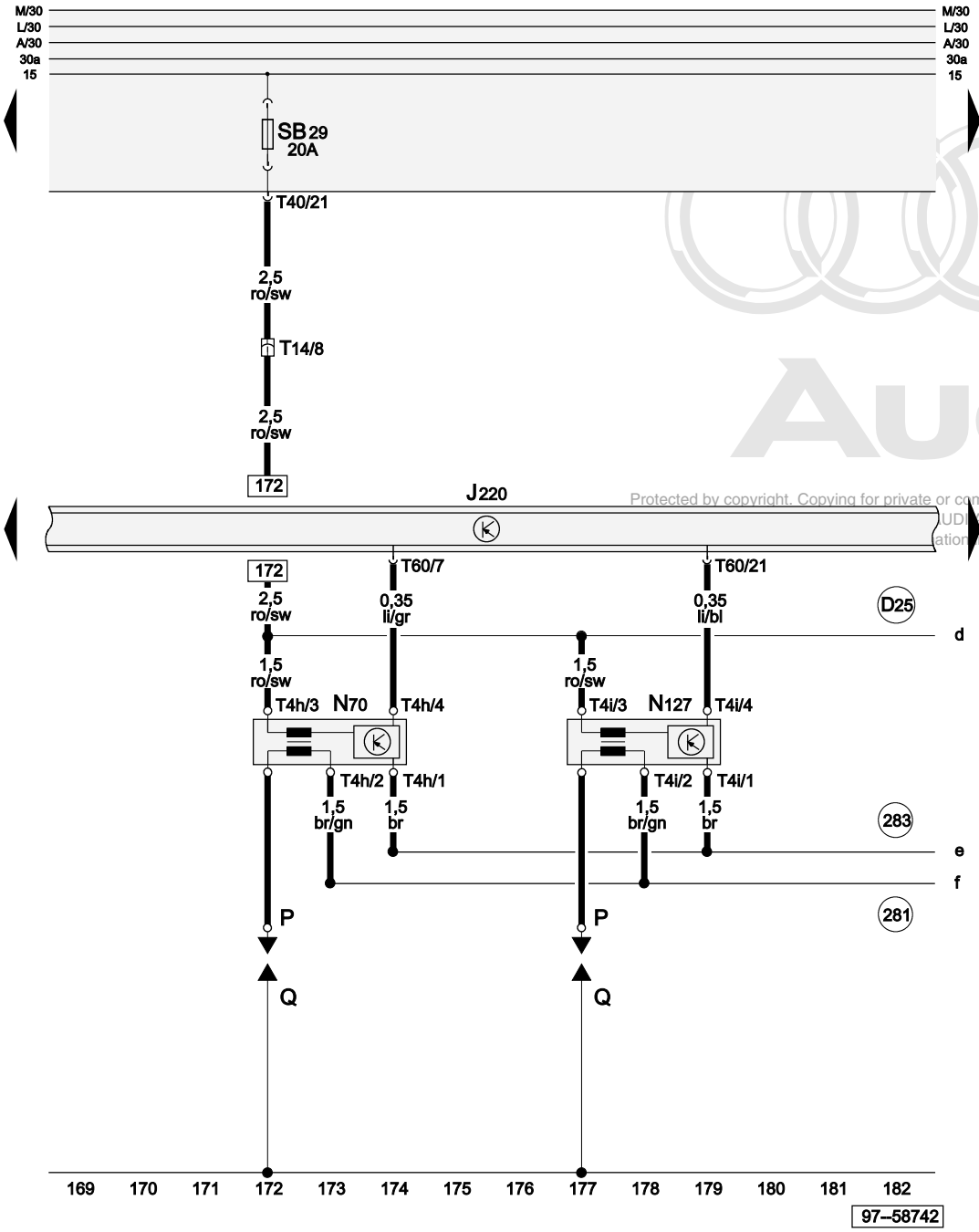


Coolant temperature sender, intake manifold pressure sender, fuel pressure sender, low pressure, throttle valve module

G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender -1- (electric power control)
G188	Throttle valve drive angle sender -2- (electric power control)
G299	Intake air temperature sender 2
G336	Intake manifold flap potentiometer
G410	Fuel pressure sender, low pressure
J220	Motronic control unit
J338	Throttle valve module
T6d	6-pin connector, black, near throttle valve module
T60	60-pin connector, black (connector A)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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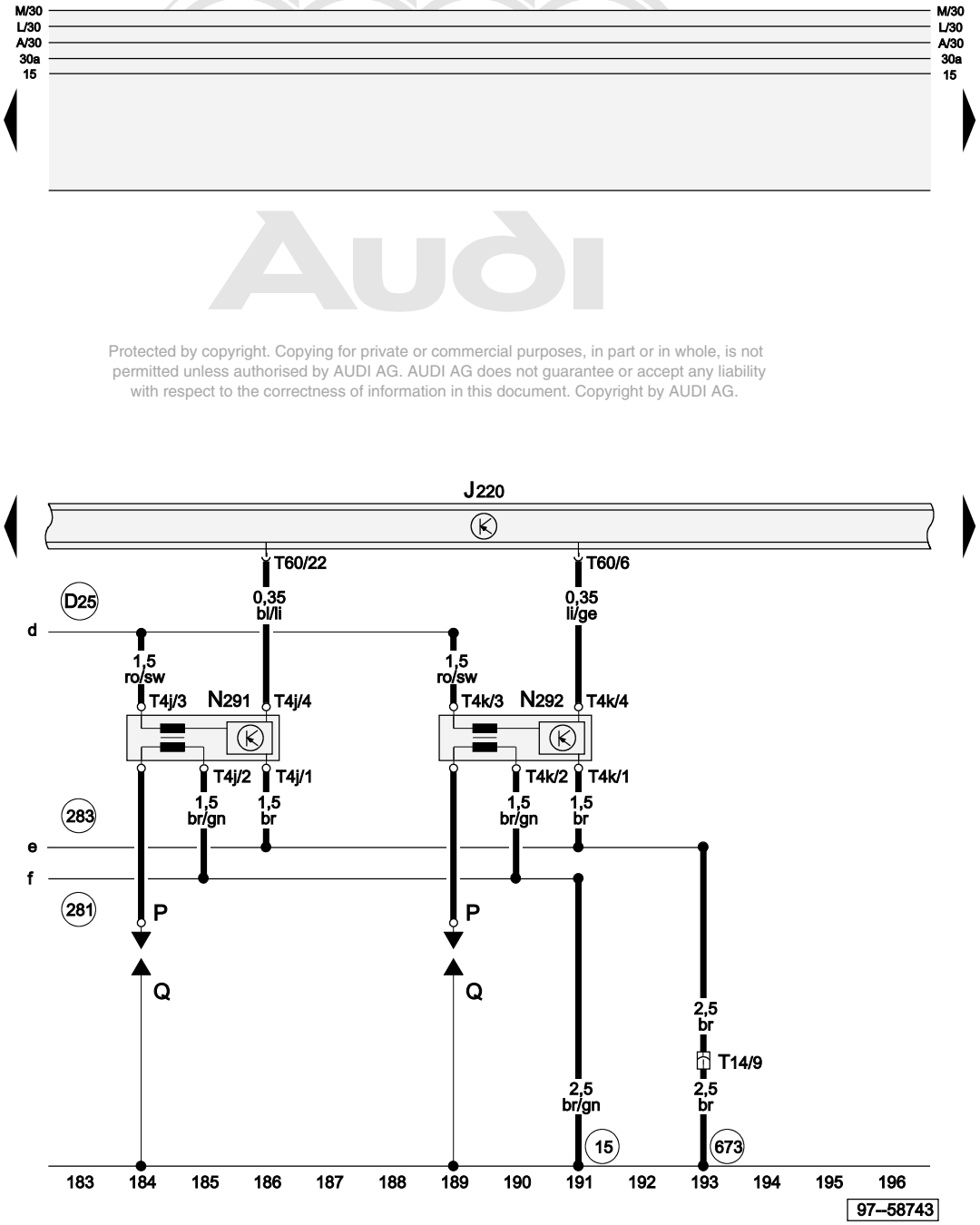


Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
P	Spark plug connector
Q	Spark plugs
SB29	Fuse -29- on fuse holder
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
281	Earth connection -1-, in engine wiring harness
283	Earth connection -2-, in engine wiring harness
D25	Positive connection (15), in engine wiring harness

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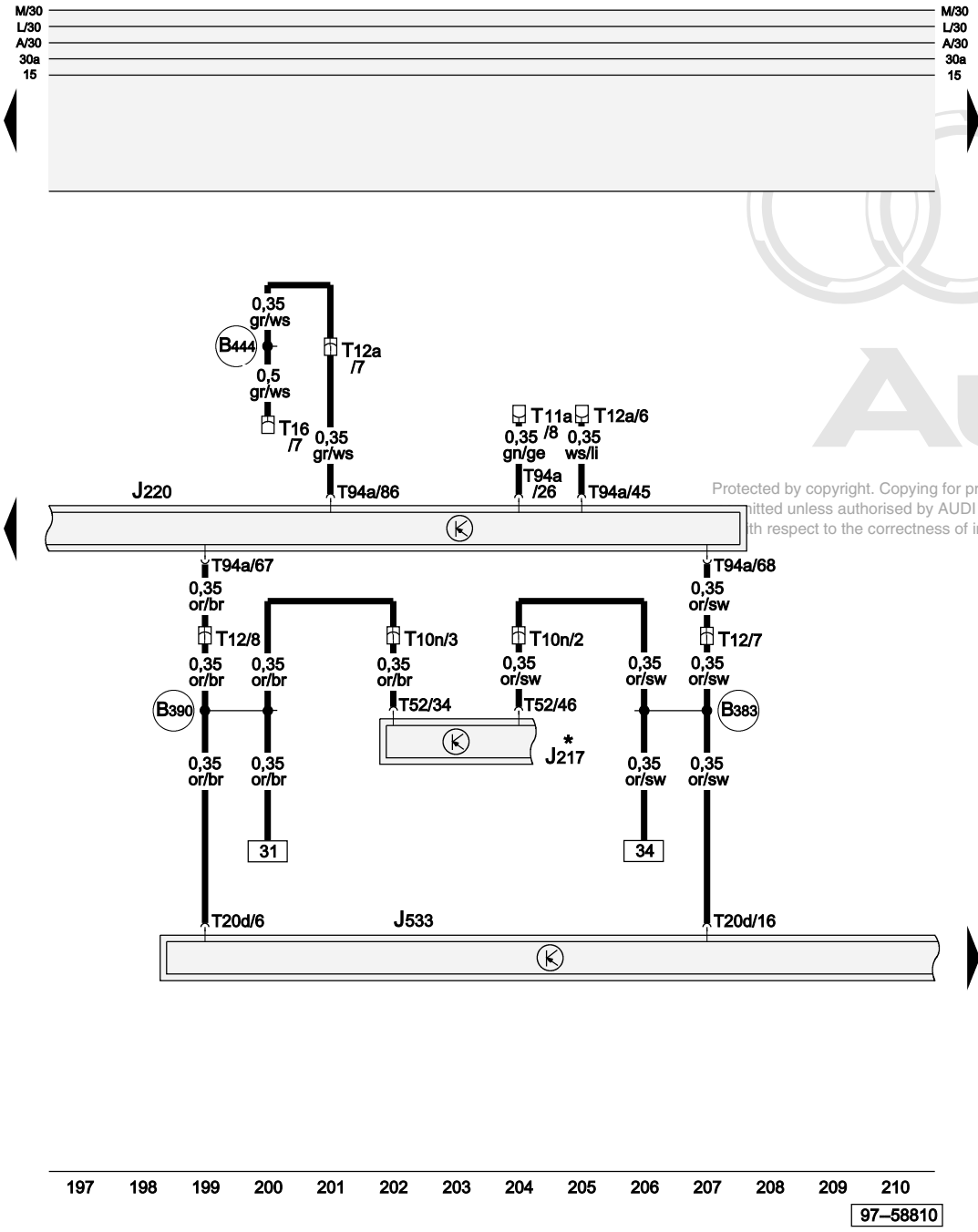


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Ignition coils 3 and 4 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4j	4-pin connector, black, on ignition coil 3 with output stage
T4k	4-pin connector, black, on ignition coil 4 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
15	Earth point, on cylinder head
281	Earth connection -1-, in engine wiring harness
283	Earth connection -2-, in engine wiring harness
673	Earth point 3, on front of left longitudinal member
D25	Positive connection (15), in engine wiring harness

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ro	=	red
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gr	=	grey
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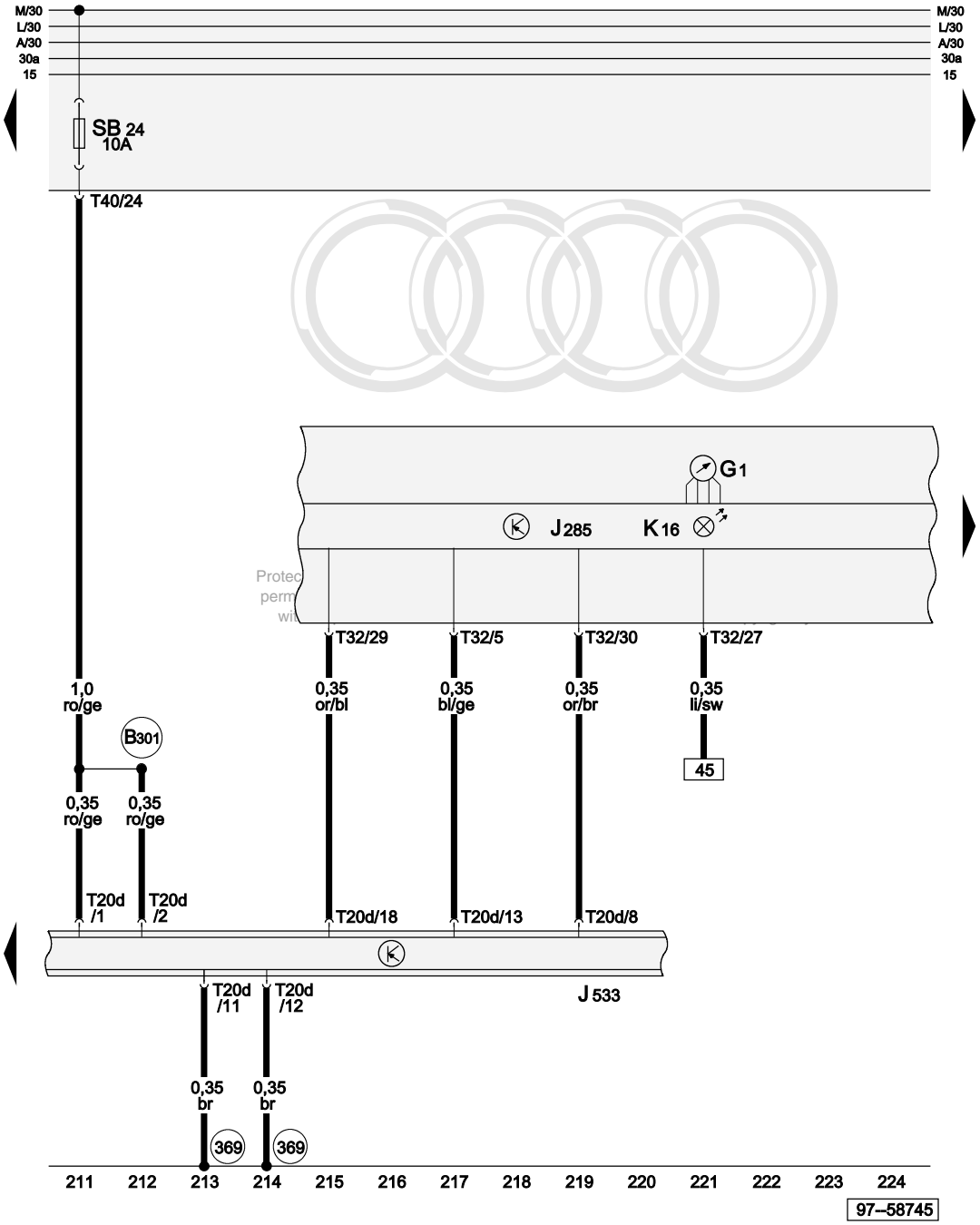


Data bus diagnostic interface, drive train CAN bus

J217	Automatic gearbox control unit
J220	Motronic control unit
J533	Data bus diagnostic interface
T10n	10-pin connector, black, near longitudinal member, front left
T11a	11-pin connector, red, in plenum chamber
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness
B444	Connection -1- (diagnosis), in main wiring harness
*	For models with automatic gearbox (09G) only

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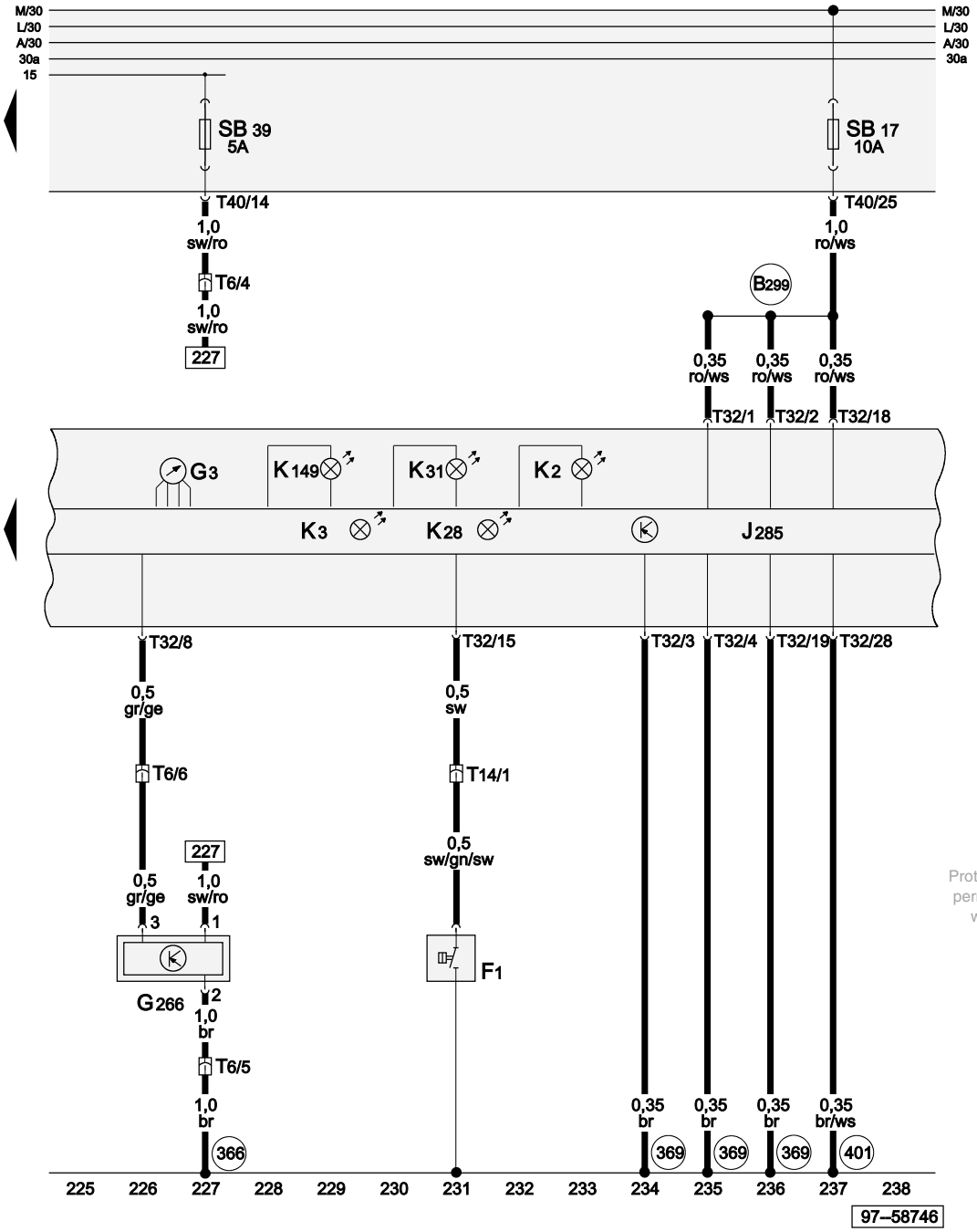
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or	=	orange
rs	=	pink



Data bus diagnostic interface, control unit with display in dash panel insert

G1	Fuel gauge
J285	Control unit with display in dash panel insert
J533	Data bus diagnostic interface
K16	Reserve fuel warning lamp
SB24	Fuse -24- on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection -4-, in main wiring harness
B301	Positive connection -5- (30), in main wiring harness

ws	=	white
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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit with display in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature/coolant shortage warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse -17- on fuse holder
SB39	Fuse -39- on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection -1-, in main wiring harness
369	Earth connection -4-, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection -3- (30), in main wiring harness

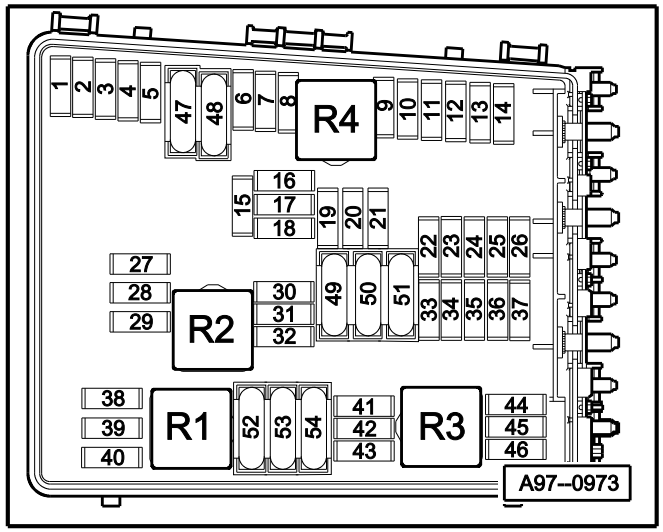
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gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

Haldex coupling with four-wheel drive

from model year 2004

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

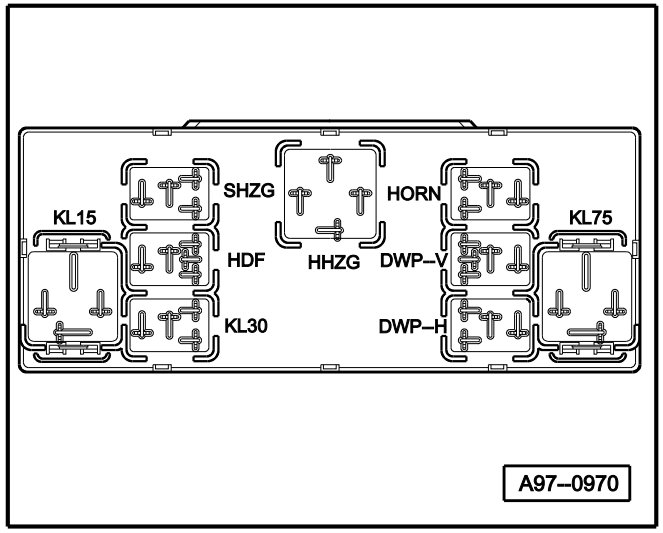
Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329

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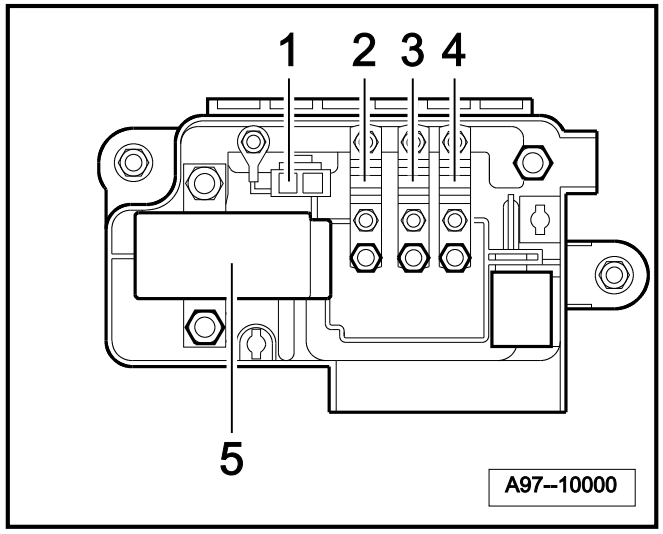
Onboard supply control unit - J519



♦ Dash panel, driver side, bottom left

Position of relays
KL15 - Terminal 15 voltage supply relay 2 - J681

Main fuse box



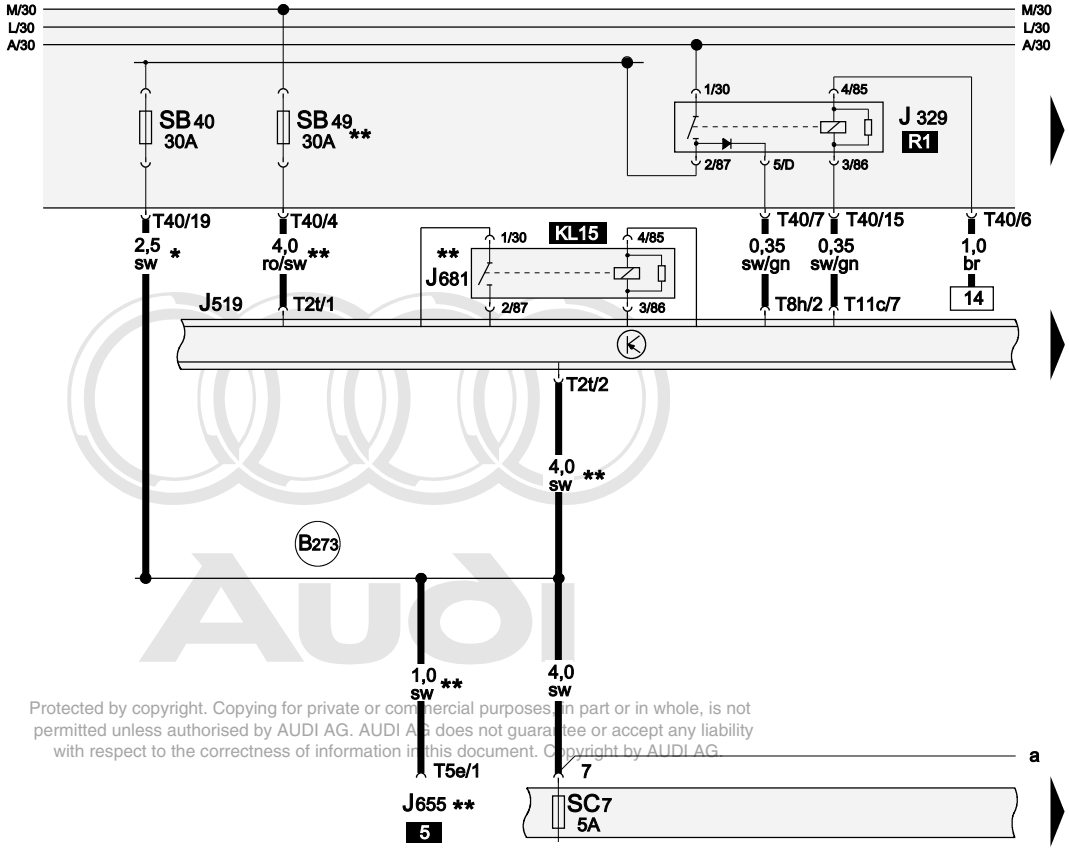
♦ In luggage compartment, rear right

Position of relays

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5 - Battery cut-off relay - J655

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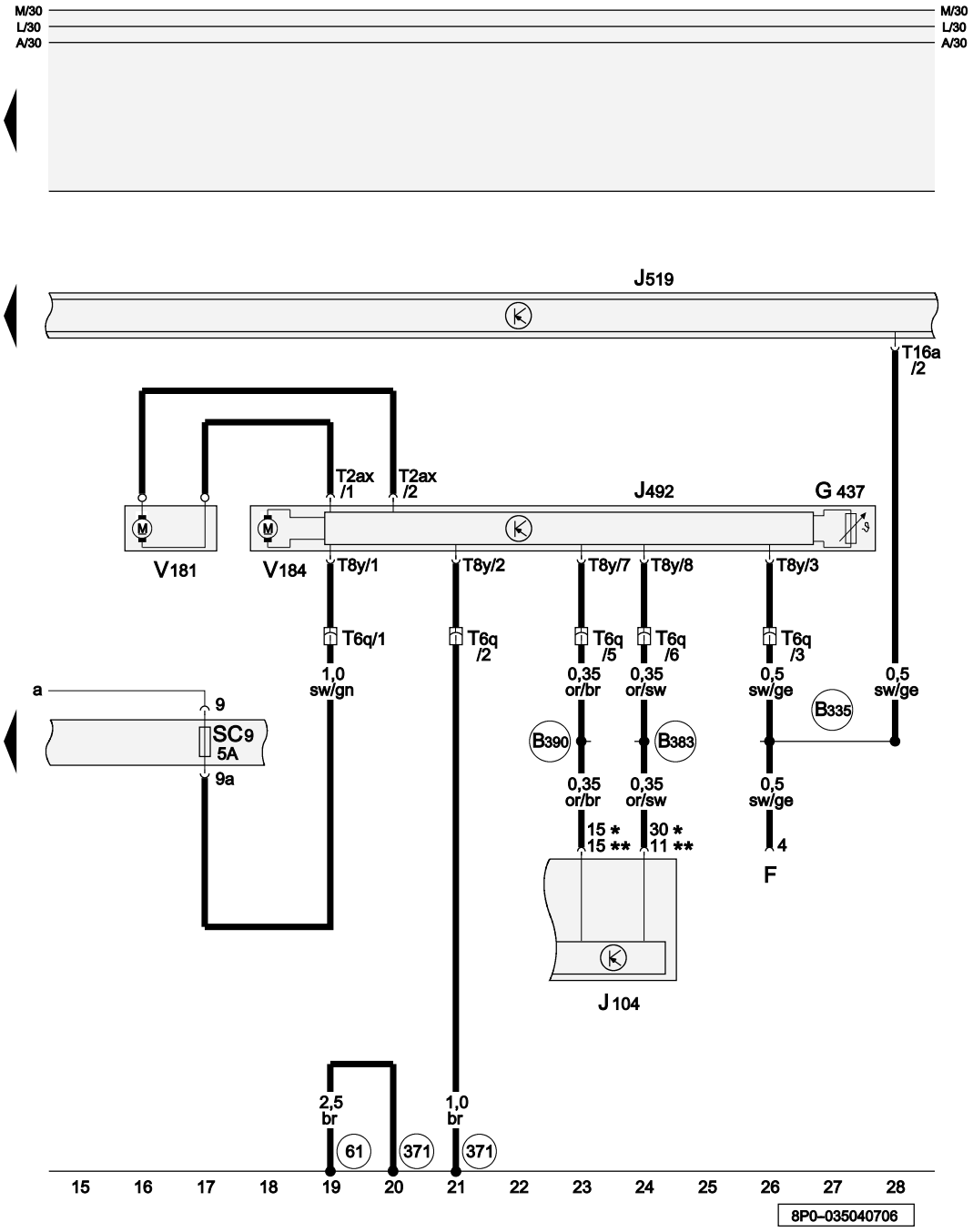
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Fuses on fuse holder, terminal 15 voltage supply relay

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J655	Battery cut-off relay
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder
SB49	Fuse 49 on fuse holder
SC7	Fuse 7 on fuse holder
T2t	2-pin connector, black (connector L)
T5e	5-pin connector, yellow, on main fuse box
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B273	Positive connection (15), in main wiring harness
*	⇒ applicable Current Flow Diagram, basic equipment with battery in engine compartment
**	⇒ applicable Current Flow Diagram, basic equipment with battery in luggage compartment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Fuses on fuse holder, four-wheel drive control unit

F	Brake light switch
G437	Oil pressure and oil temperature sender
J104	ABS control unit
J492	Four-wheel drive control unit
J519	Onboard supply control unit
SC9	Fuse 9 on fuse holder
T2ax	2-pin connector, near four-wheel drive control unit
T6q	6-pin connector, black, near fuel gauge sender 2
T8y	8-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
V181	Haldex coupling pump
V184	Oil pressure control motor
61	Earth point, left C-pillar
371	Earth connection 6, in main wiring harness
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	for models with anti-lock brake system (ABS) MK60 and automatic gearbox (09G) only
**	for models with anti-lock brake system (ABS) MK60 and direct shift gearbox (02E) or manual gearbox only

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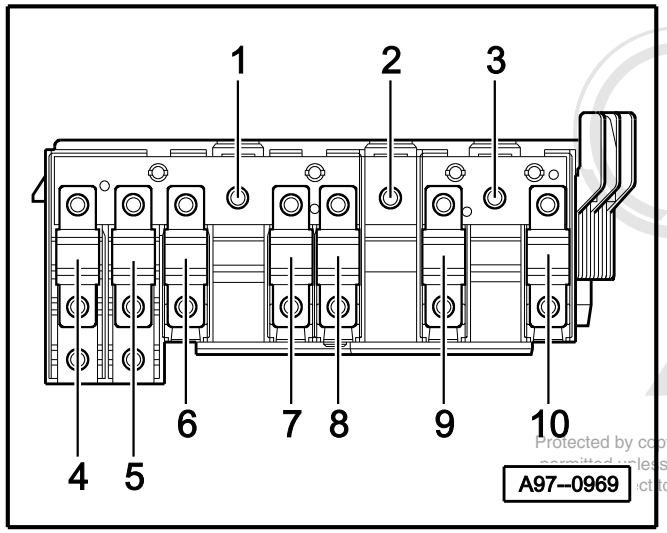
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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Basic equipment with battery in luggage compartment

⇒ **3.2 l Fuel injection engine (184 kW - Motronic - 6 cylinder), engine code BDB**

from model year 2004

Main fuse holder, electronics box



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♦ On electronics box, in engine compartment, front left

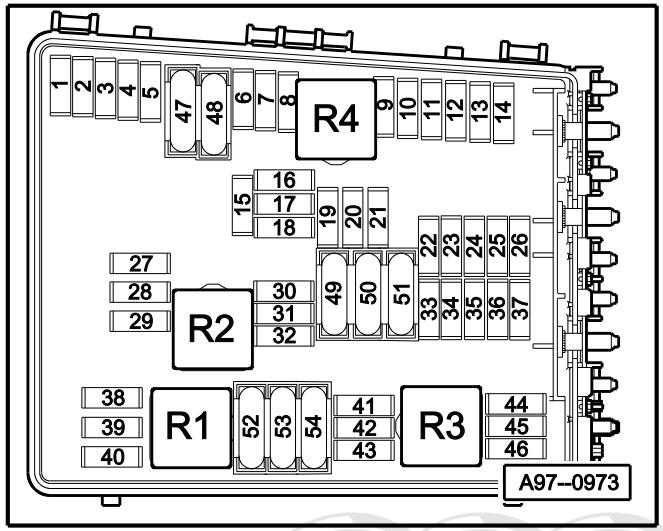
Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

Fuse locations
4 - Fuse 1 on fuse holder/battery (SA1)
5 - Fuse 2 on fuse holder/battery (SA2)
6 - Fuse 3 on fuse holder/battery (SA3)
7 - Fuse 4 on fuse holder/battery (SA4)
8 - Fuse 5 on fuse holder/battery (SA5)
9 - Fuse 6 on fuse holder/battery (SA6)

Note:

♦ *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



♦ In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

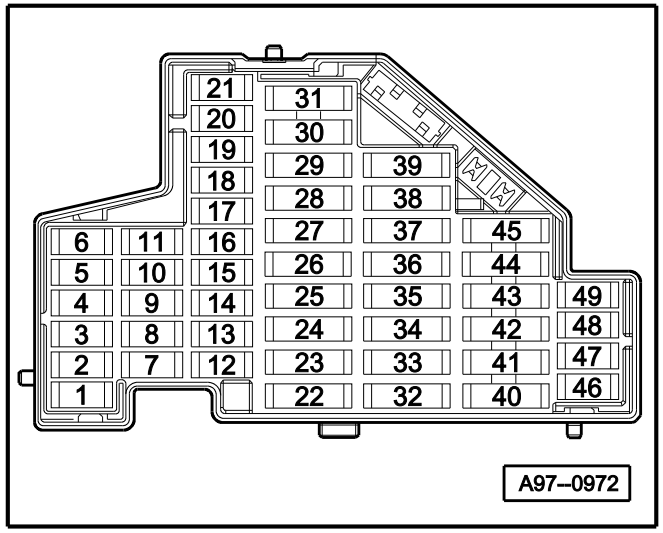
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♦ *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329
R2 - Terminal 50 voltage supply relay - J682
R3 - Fuel pump relay - J17
R4 - Motronic current supply relay - J271

Fuse holder



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- Driver side dash panel

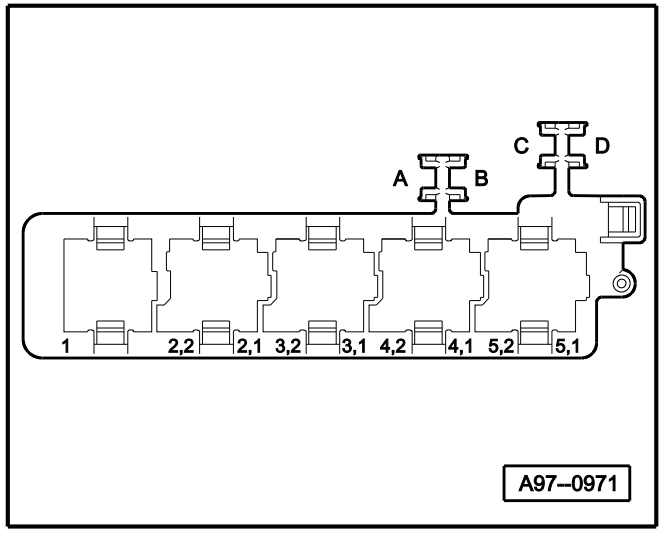
Fuse colours

40 A - orange
30 A - green
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

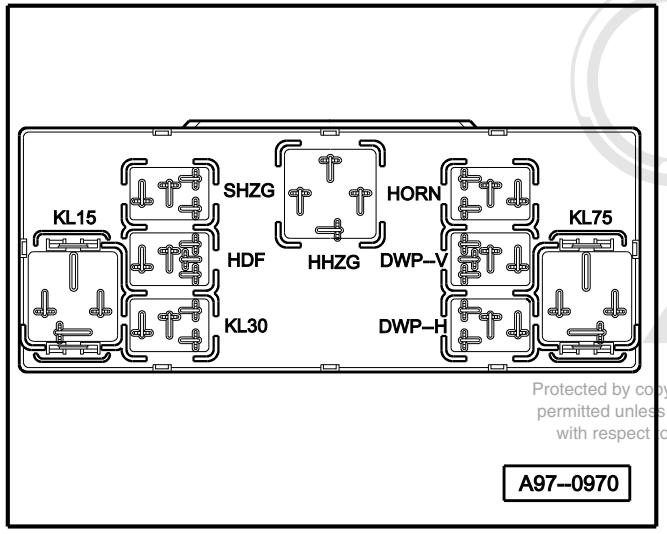
5-point relay carrier



♦ Above the onboard power supply control unit, dash panel, driver side, bottom left

Position of relays
1 - Headlight washer system relay - J39
2.1 - Electric fuel pump 2 relay - J49

Onboard supply control unit - J519

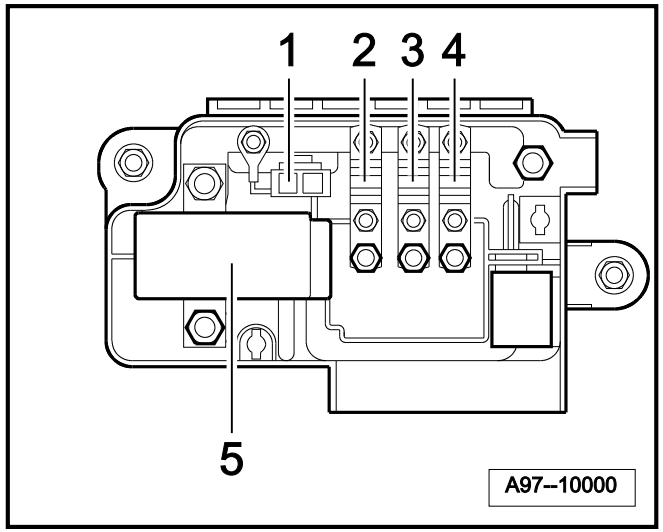


♦ Dash panel, driver side, bottom left

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Position of relays
KL15 - Terminal 15 voltage supply relay 2 - J681
KL30 - Terminal 30 voltage supply relay 2 - J689
HRW - Heated rear window relay - J9
HORN - Horn relay - J413
DWPF - Double washer pump relay 2 - J730
DWPR - Double washer pump relay 1 - J729
KL75 - X-contact relief relay - J59

Main fuse box



- In luggage compartment, rear right

Fuse locations

1 - Fuse 1 on fuse holder - SD1
2 - Fuse -2- on fuse holder - SD2
3 - Fuse -3- on fuse holder - SD3
4 - Fuse 4 on fuse holder - SD4
Position of relays

5 - Battery cut-off relay - J655

Note:

- *The fuses in the main fuse box are designated as SD in the Current Flow Diagram.*

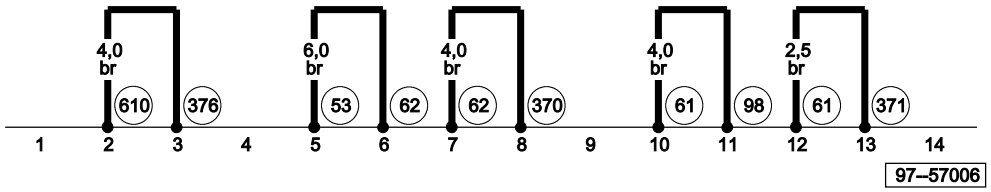
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Earth points, earth connections

- 53 Earth point, on right in rear lid
- 61 Earth point, left C-pillar
- 62 Earth point, right C-pillar
- 98 Earth connection, in rear lid wiring harness
- 370 Earth connection 5, in main wiring harness
- 371 Earth connection 6, in main wiring harness
- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), front under centre console

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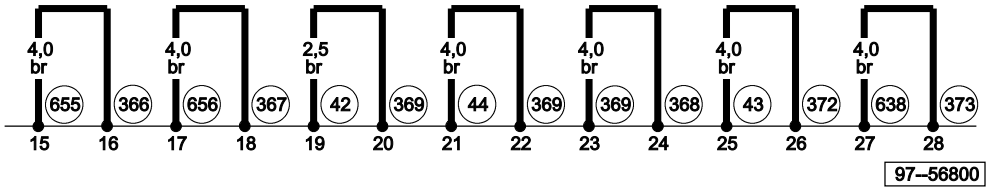
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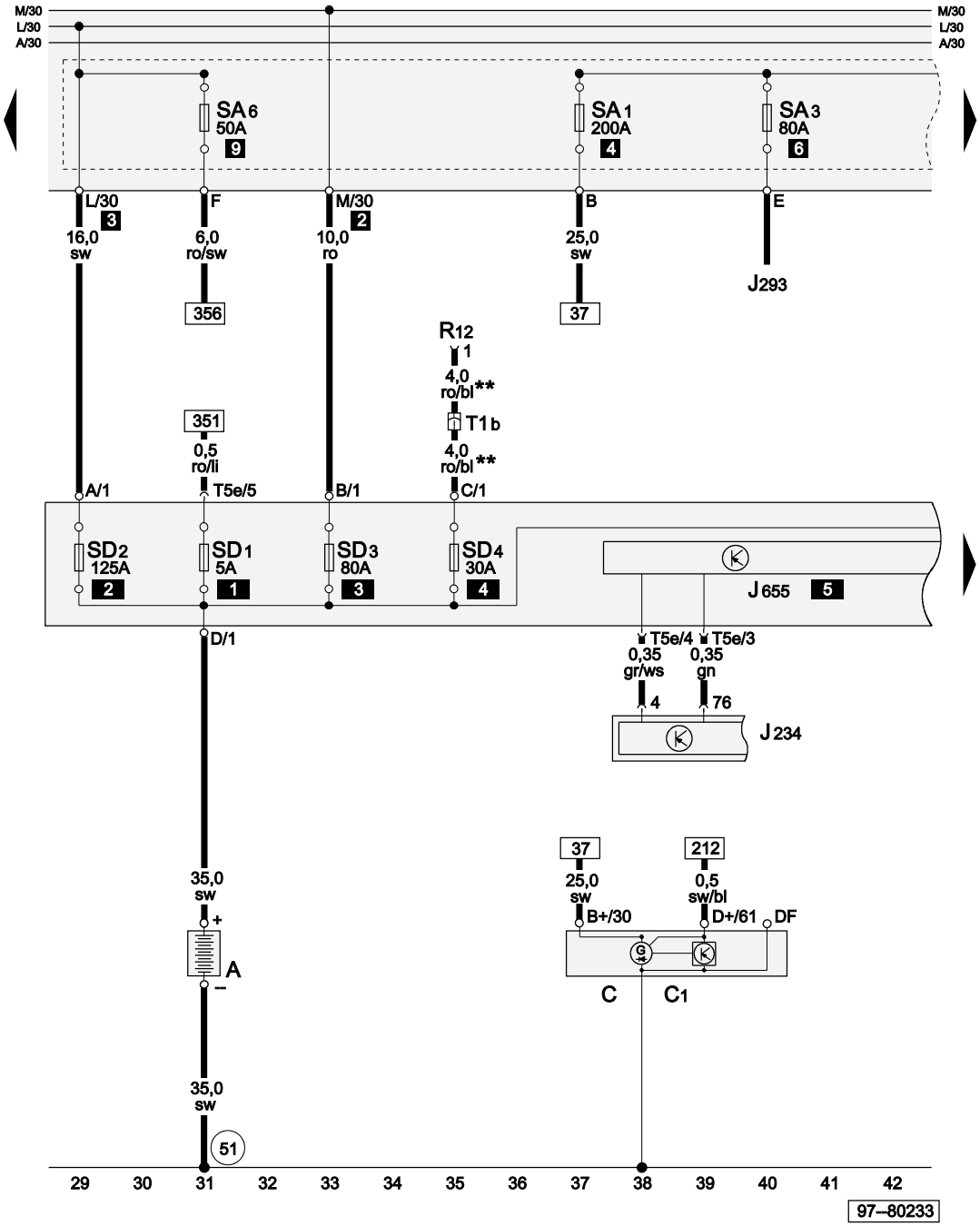
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Earth points, earth connections

- 42 Earth point, next to steering column
- 43 Earth point, lower part of right A-pillar
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 367 Earth connection 2, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 373 Earth connection 8, in main wiring harness
- 638 Earth point, right A-pillar
- 655 Earth point, on left headlight
- 656 Earth point, on right headlight



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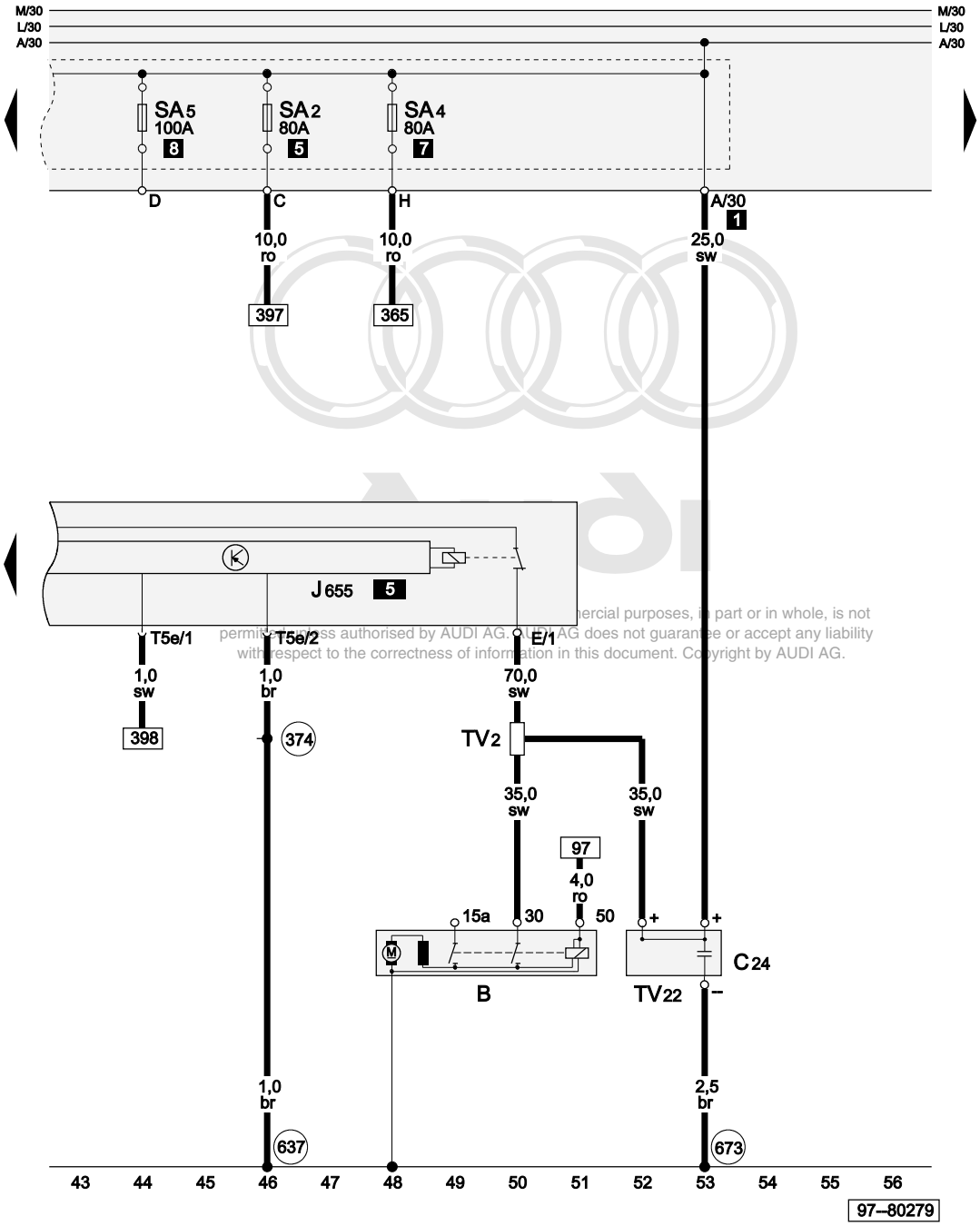


Battery, alternator

A	Battery
C	Alternator
C1	Voltage regulator
J234	Airbag control unit
J293	Radiator fan control unit
J655	Battery cut-off relay
R12	Amplifier
SA1	Fuse 1 on fuse holder/battery
SA3	Fuse 3 on fuse holder/battery
SA6	Fuse 6 on fuse holder/battery
SD1	Fuse 1 on fuse holder
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
SD4	Fuse 4 on fuse holder
T1b	1-pin connector, black, on left C-pillar
T5e	5-pin connector, yellow, on main fuse box
(51)	Earth point, on right in luggage compartment
**	for models with Bose sound system only

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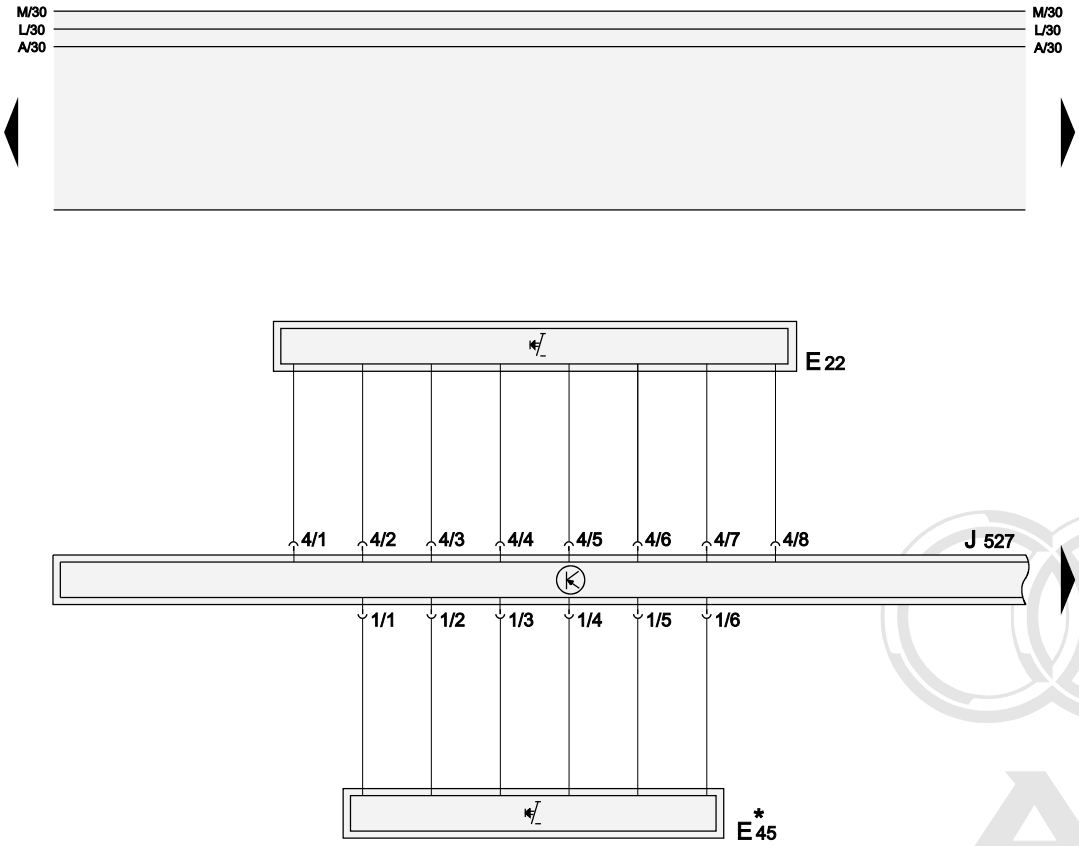


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Starter, suppression filter, battery cut-off relay

B	Starter
C24	Suppression filter
J655	Battery cut-off relay
SA2	Fuse 2 on fuse holder on battery
SA4	Fuse 4 on fuse holder on battery
SA5	Fuse 5 on fuse holder on battery
T5e	5-pin connector, yellow, on main fuse box
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
374	Earth connection 9, in main wiring harness
637	Earth point, airbag control unit
673	Earth point 3, on front of left longitudinal member

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

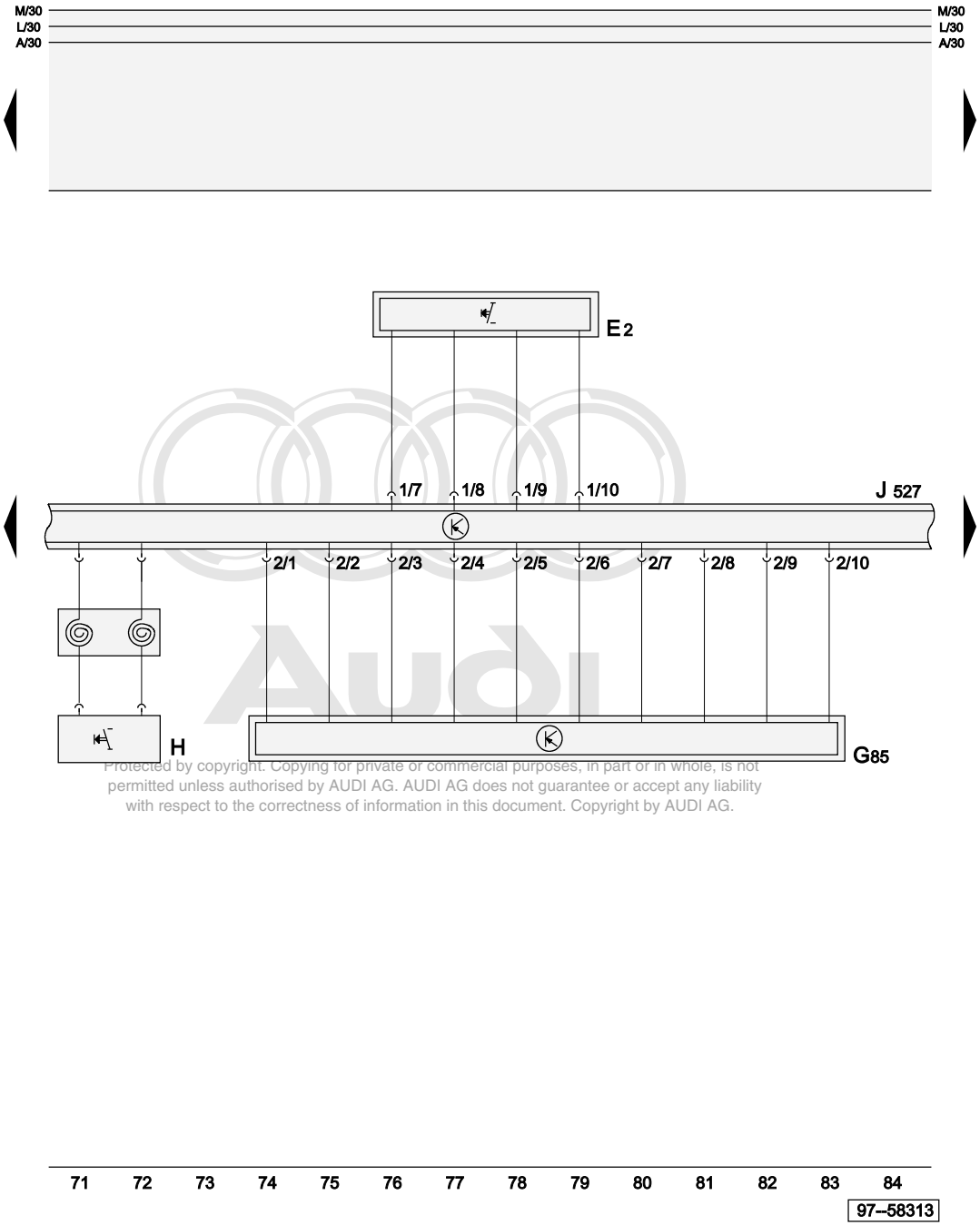


Intermittent wiper switch, cruise control system switch

E22	Intermittent wiper switch
E45	Cruise control system switch
J527	Steering column electronics control unit
*	for models with cruise control system only

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rs	=	pink

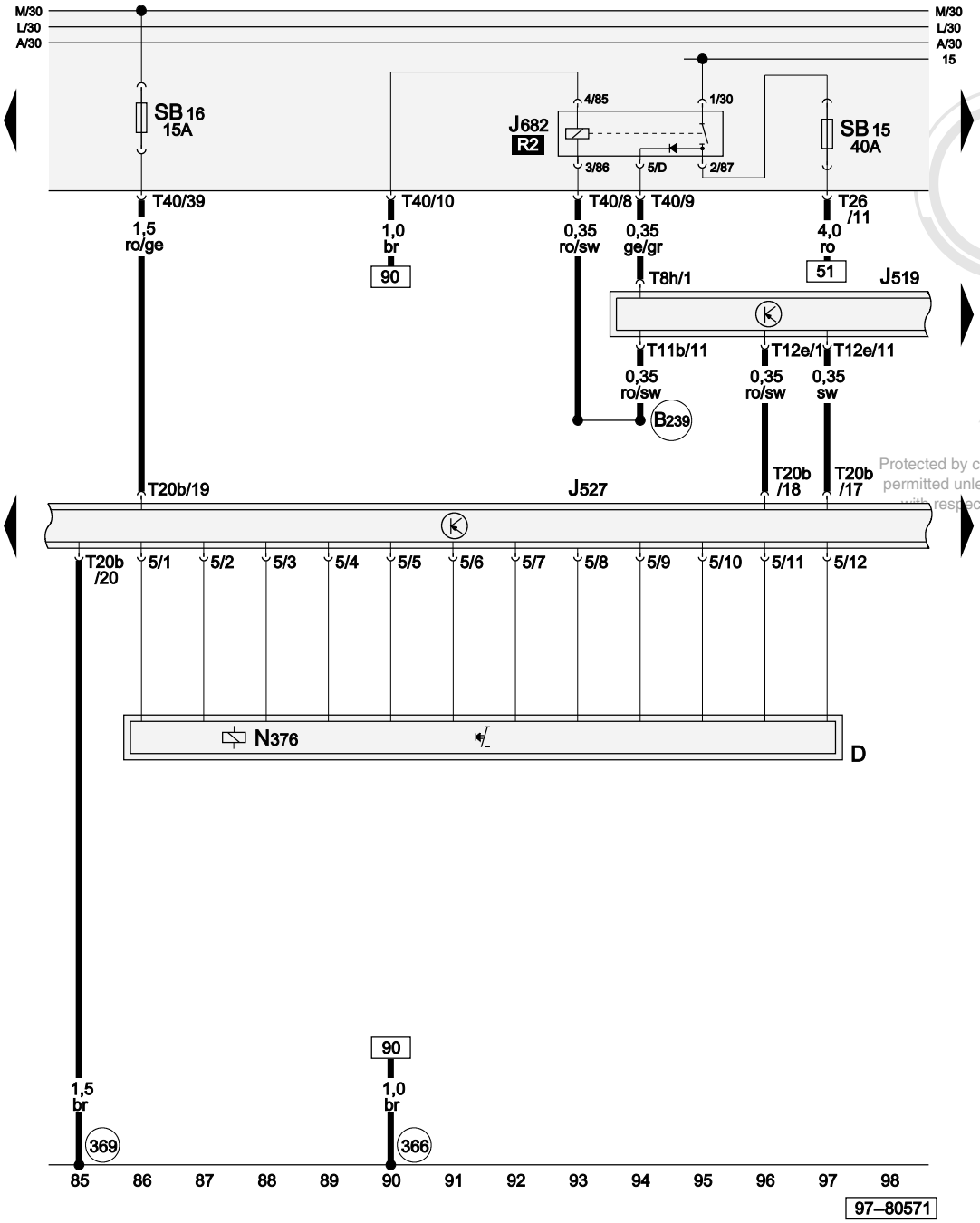


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Turn signal switch, steering angle sender, horn plate

E2	Turn signal switch
G85	Steering angle sender
H	Horn plate
J527	Steering column electronics control unit

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

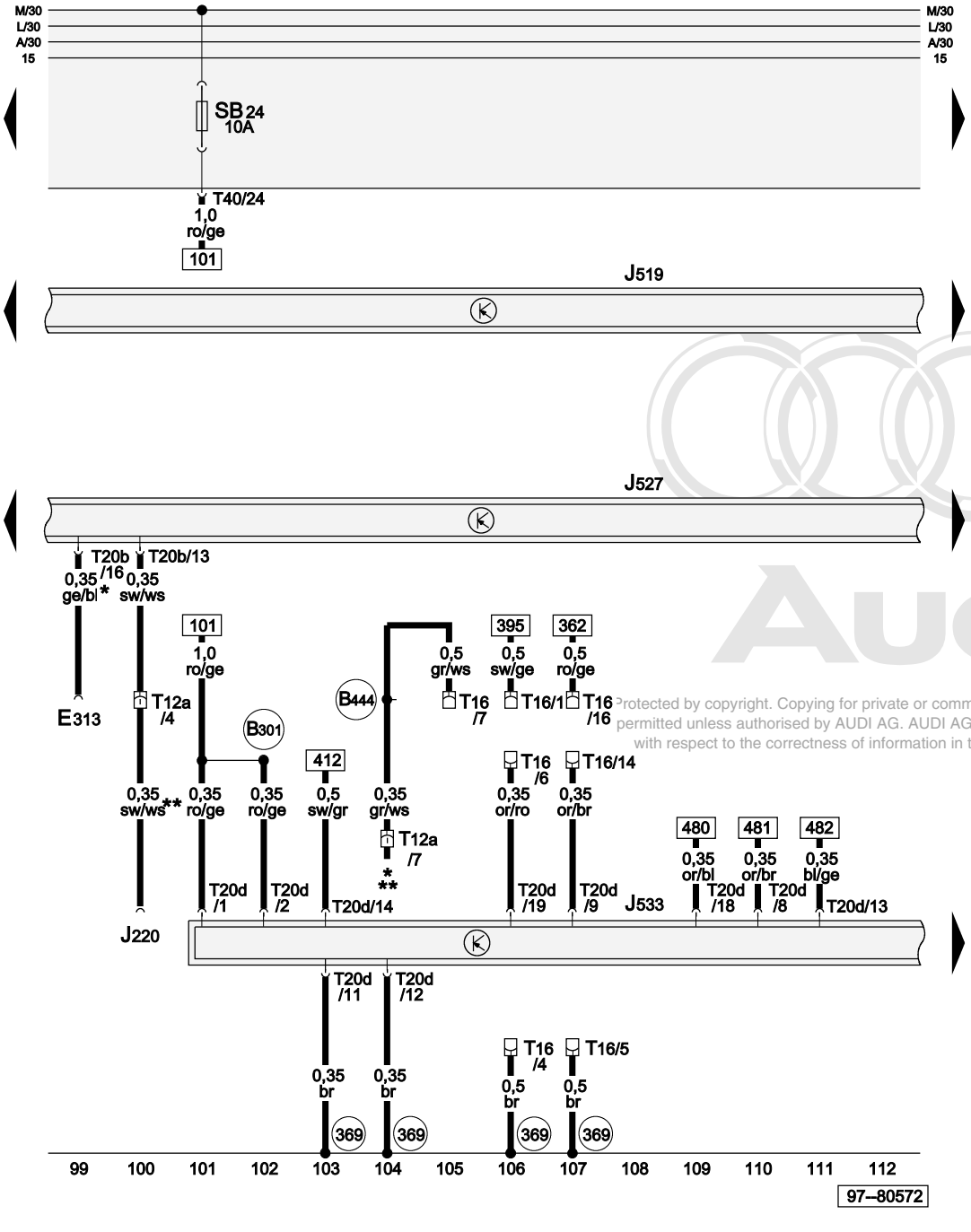


Ignition/starter switch, terminal 50 voltage supply relay

D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
N376	Ignition key withdrawal lock solenoid
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness

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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

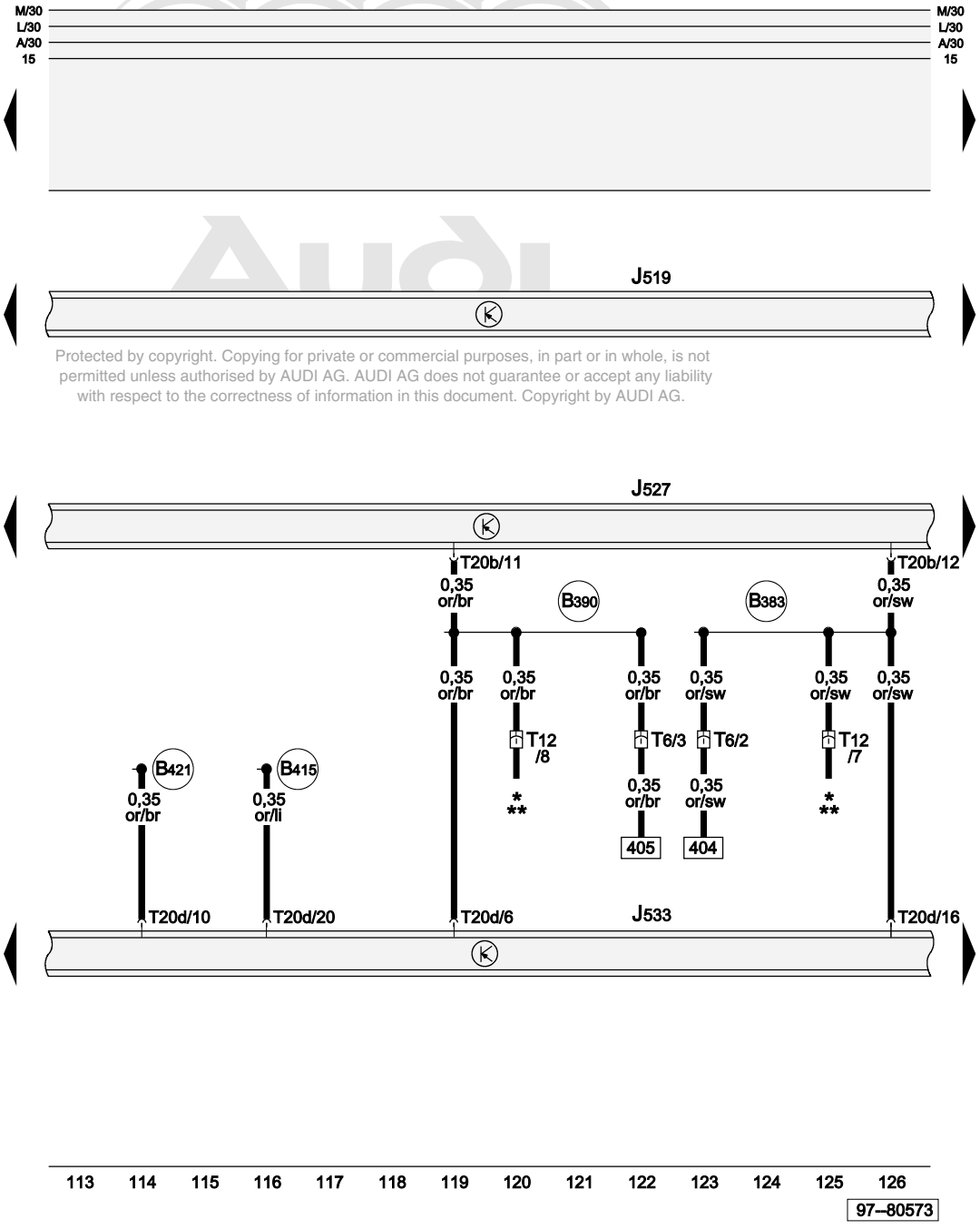


Diagnostic connector, data bus diagnostic interface

E313	Selector lever
J220	Motronic control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB24	Fuse 24 on fuse holder
T12a	12-pin connector, blue, in plenum chamber
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection -5- (30), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	⇒ applicable Current Flow Diagram: automatic gearbox
**	⇒ applicable engine Current Flow Diagram

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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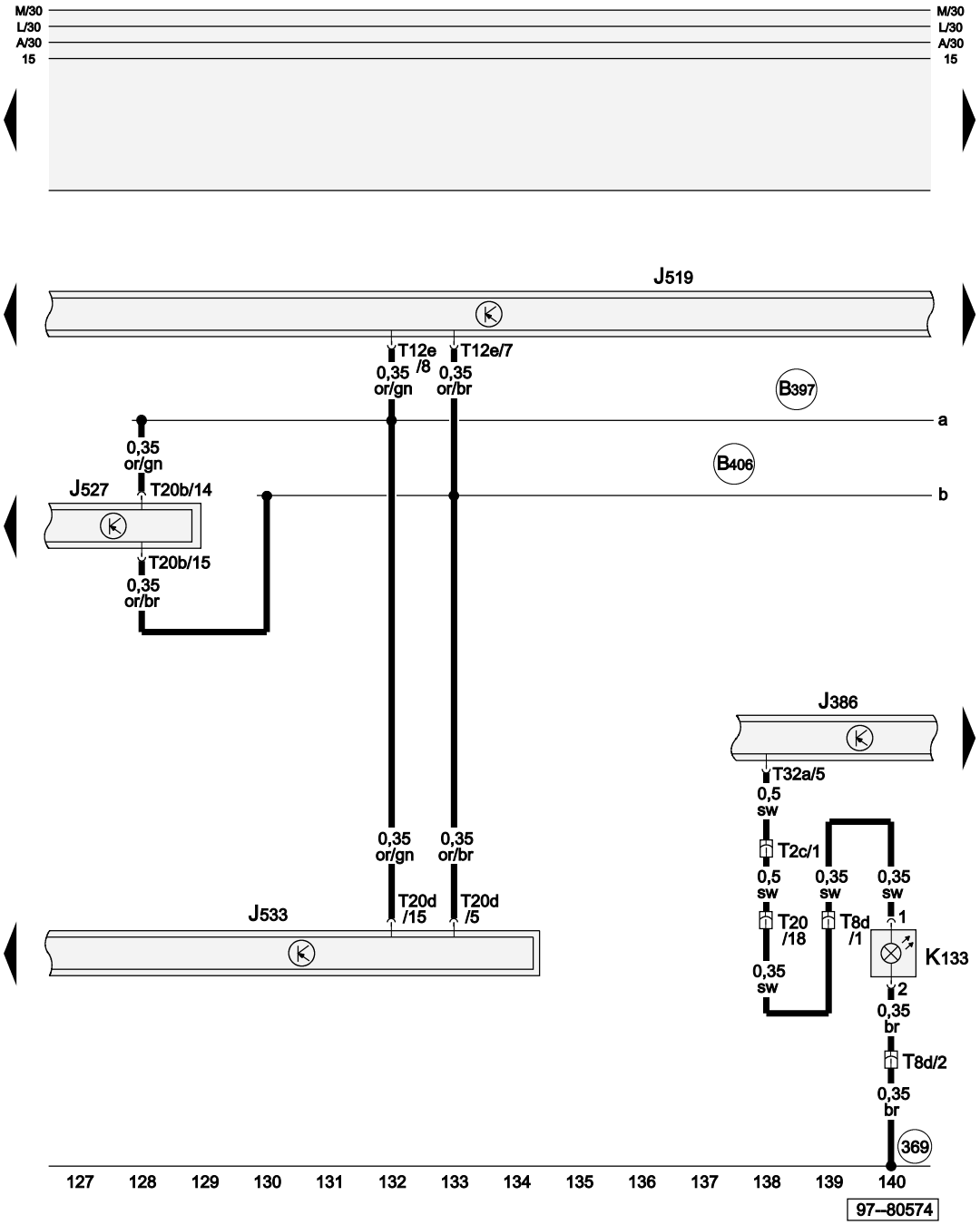


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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Data bus diagnostic interface, drive train CAN bus, infotainment CAN bus

J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T6	6-pin connector, black, near longitudinal member, front left
T12	12-pin connector, green, in plenum chamber
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	⇒ applicable Current Flow Diagram: automatic gearbox
**	⇒ applicable engine Current Flow Diagram

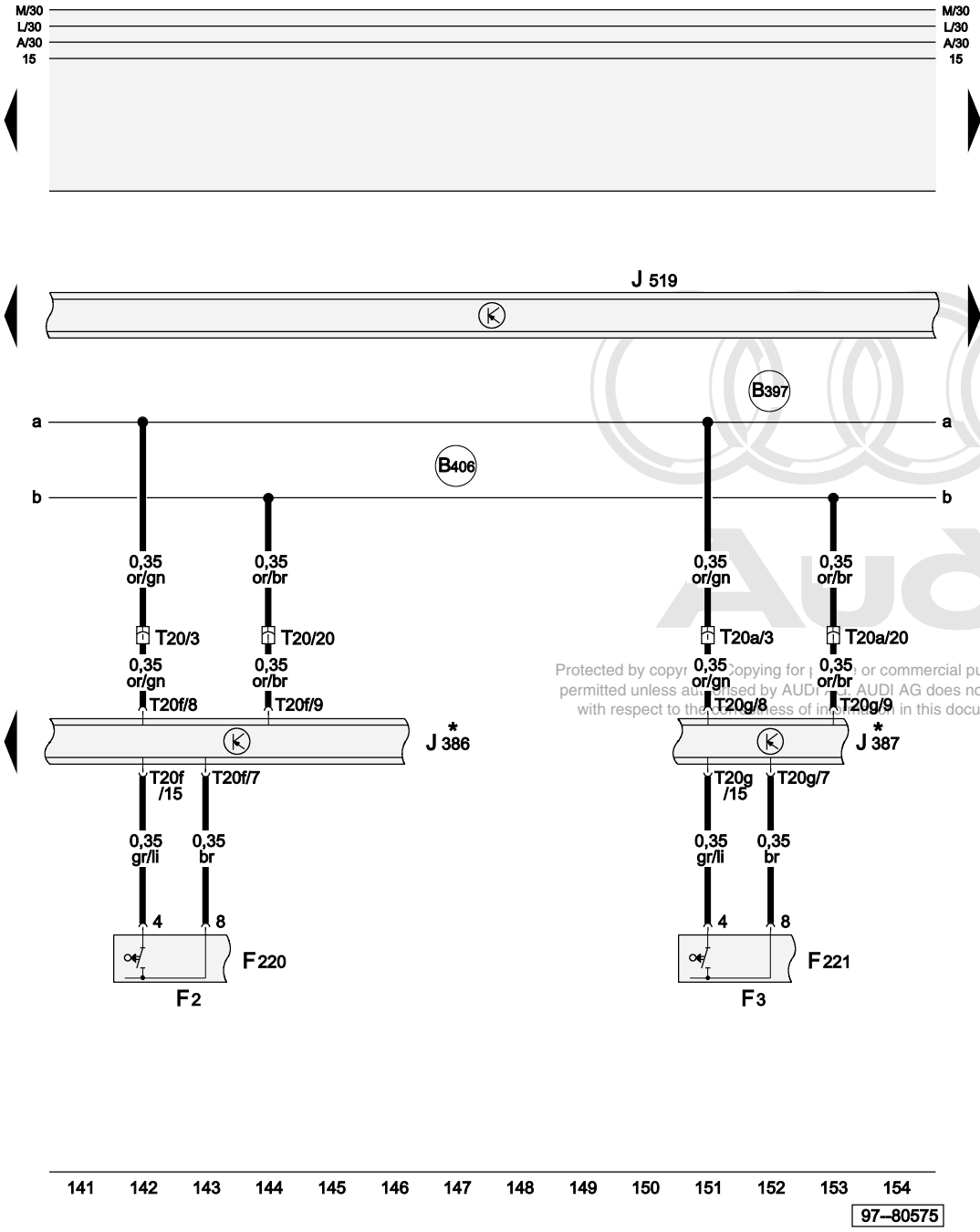


Data bus diagnostic interface, convenience CAN bus

J386	Driver door control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K133	Central locking deadlock function warning lamp
T2c	2-pin connector, black, behind door trim driver door
T8d	8-pin connector, black, behind centre console
T12e	12-pin connector, black (connector G)
T20	20-pin connector, black, door, A pillar, left
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32a	32-pin connector, grey (connector C)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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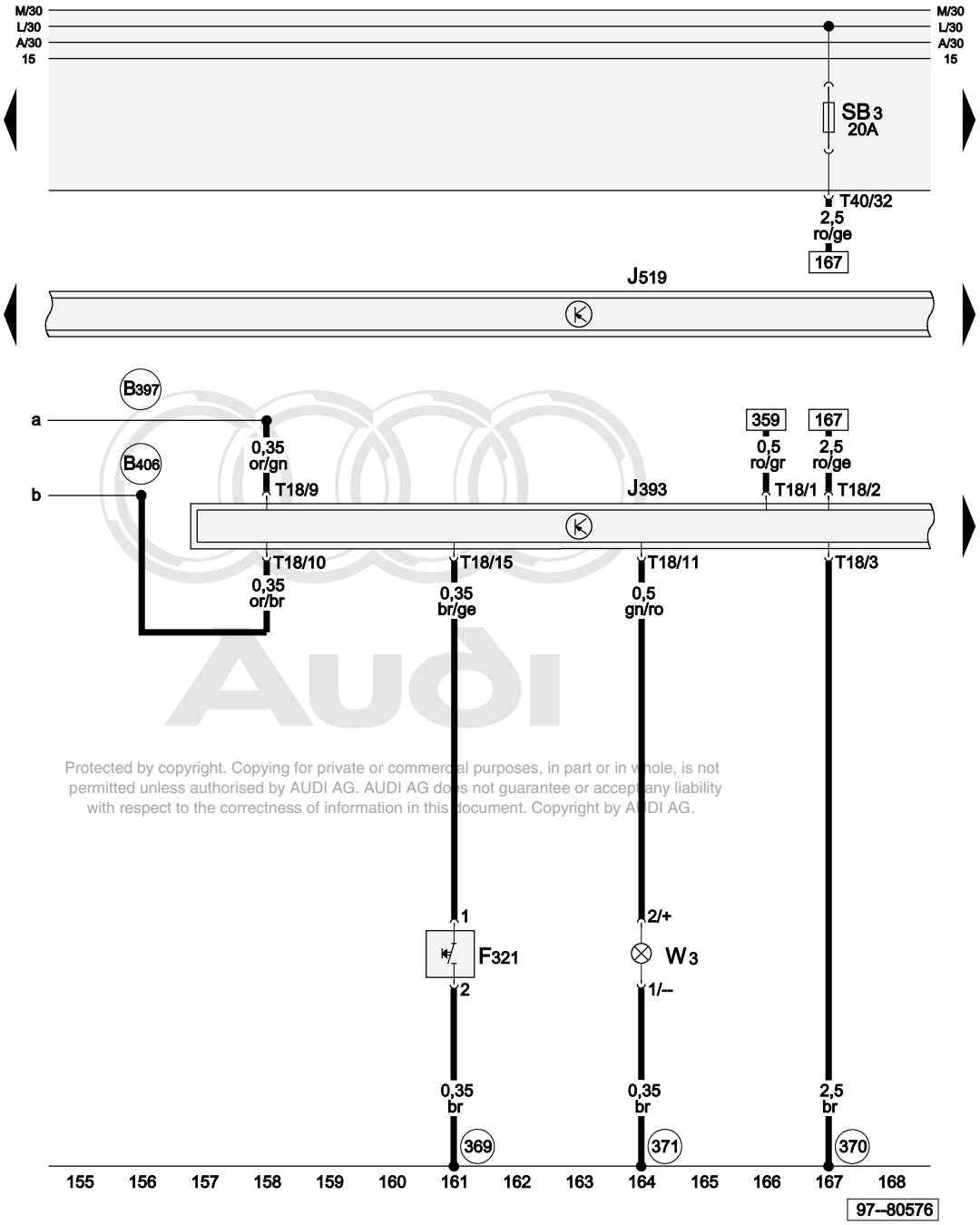


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Convenience CAN bus, driver door contact switch, front passenger door contact switch

F2	Driver door contact switch
F3	Front passenger door contact switch
F220	Driver side central locking lock unit
F221	Front passenger side central locking lock unit
J386	Driver door control unit
J387	Front passenger door control unit
J519	Onboard supply control unit
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Voltage supply, ⇒ applicable Current Flow Diagram: convenience system

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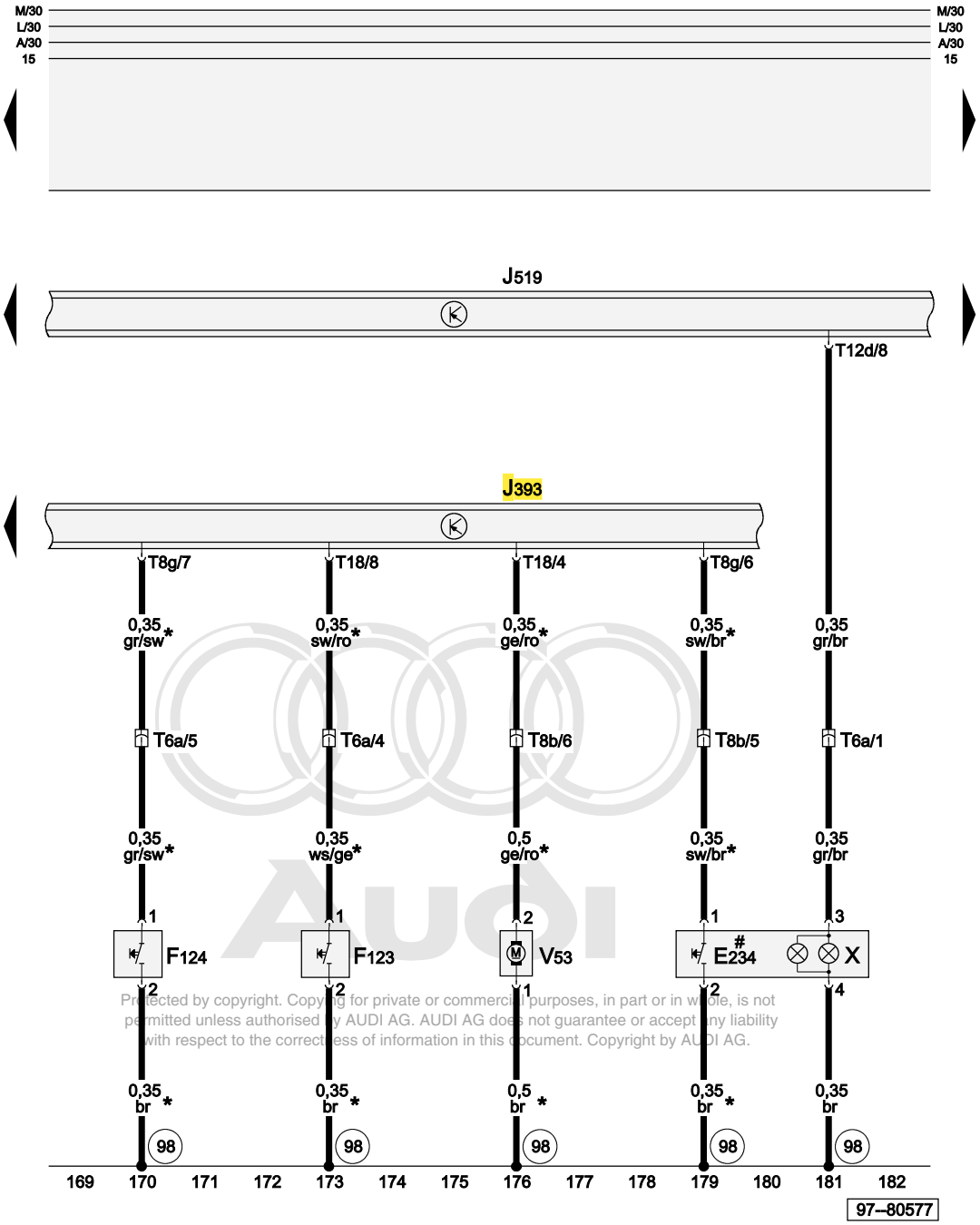


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Parking brake contact switch, luggage compartment light

F321	Parking brake contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
SB3	Fuse 3 on fuse holder
T18	18-pin connector, brown (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
W3	Luggage compartment light
369	Earth connection 4, in main wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

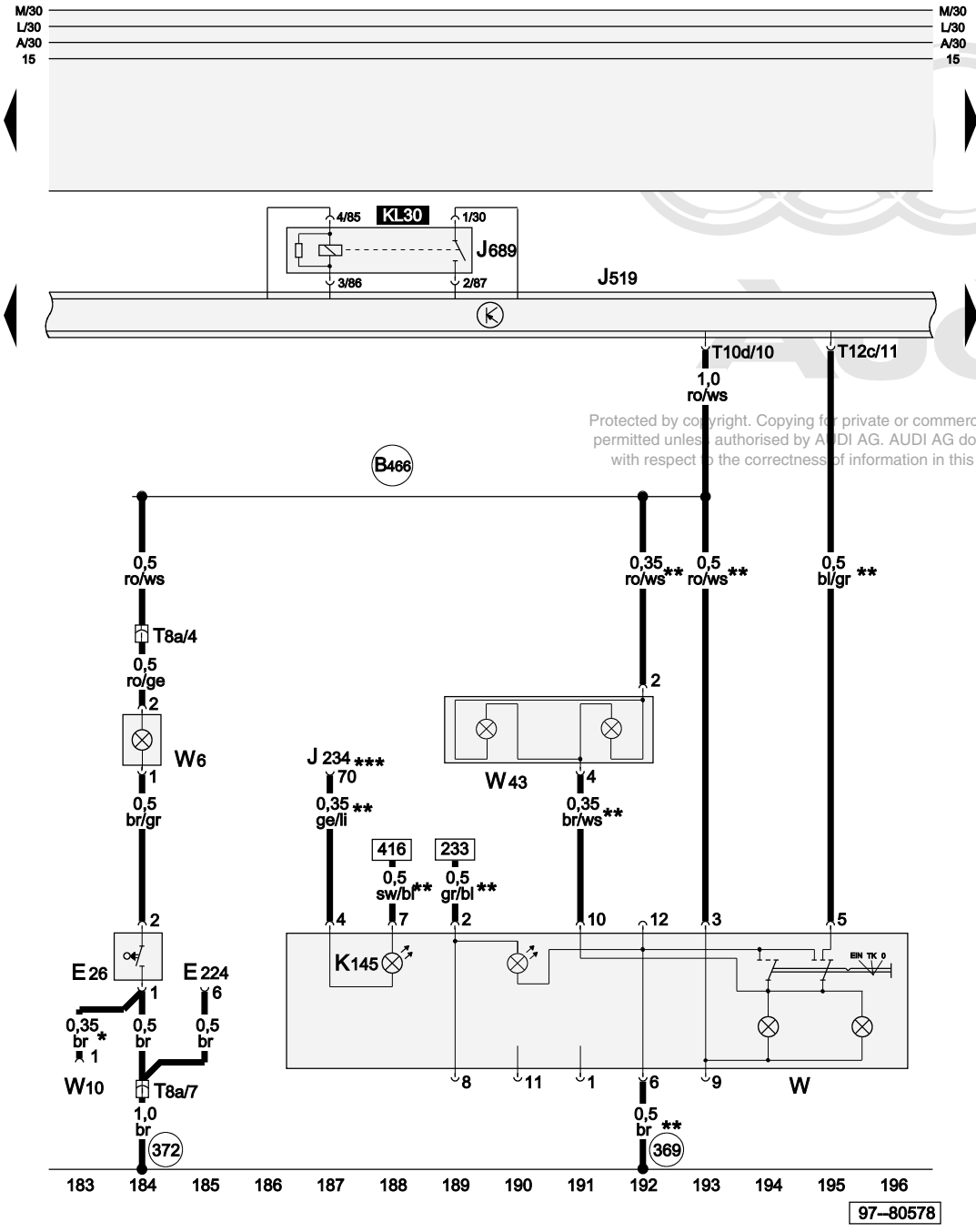


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Rear lid contact switch, number plate light

E234	Rear lid handle release button
F123	Rear lid contact switch for anti-theft alarm system
F124	Contact switch in lock cylinder for rear lid/anti-theft alarm system/ central locking system
J393	Convenience system central control unit
J519	Onboard supply control unit
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
T18	18-pin connector, brown (connector A)
V53	Rear lid central locking motor
X	Number plate light
(98)	Earth connection, in rear lid wiring harness
*	depends on equipment
#	F248 is replaced by E234

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

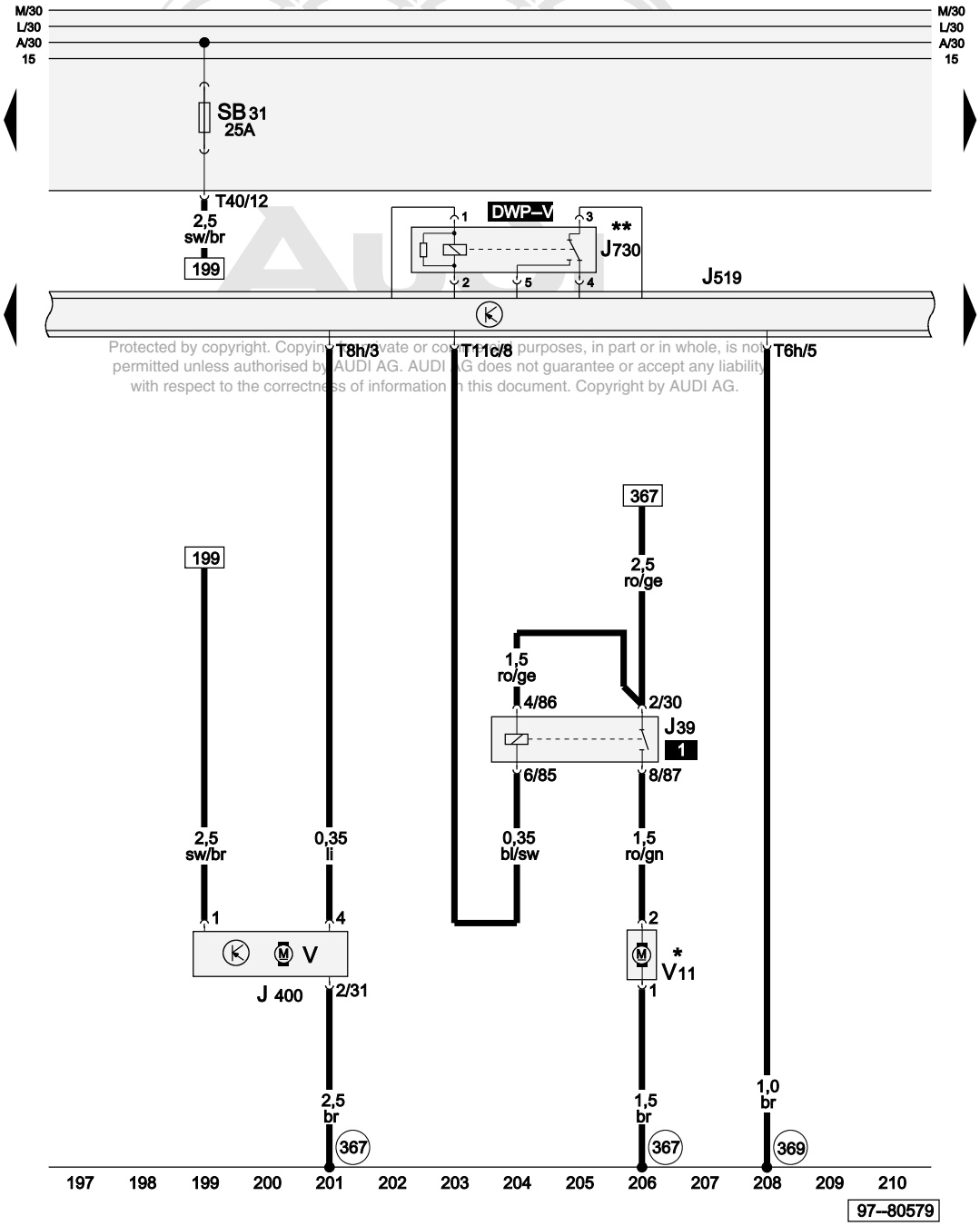


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Front and rear interior light, glove compartment light

E26	Glove compartment light switch
E224	Key operated switch to deactivate front passenger side airbag
J234	Airbag control unit
J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
K145	Front passenger side airbag deactivated warning lamp
T8a	8-pin connector, black, near glove compartment
T10d	10-pin connector, black (connector K)
T12c	12-pin connector, black (connector B)
W	Front interior light
W6	Glove compartment light
W10	Right footwell light
W43	Rear interior light
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B466	Connection 2, in main wiring harness
*	⇒ applicable Current Flow Diagram: convenience system
**	for models without reading lights only
***	⇒ applicable Current Flow Diagram: airbag

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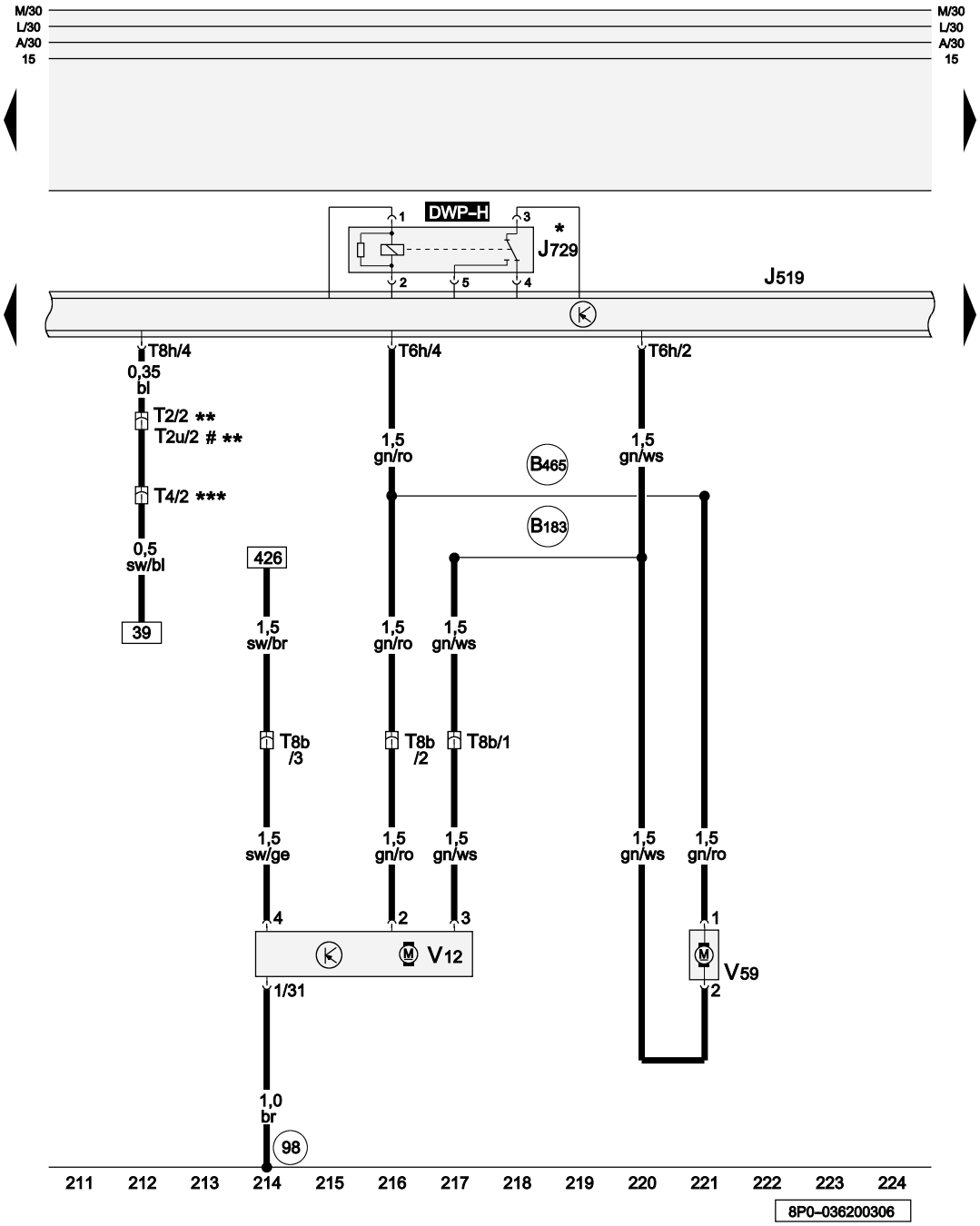


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Headlight washer system relay, double washer pump relay 2, front windscreen wiper motor

J39	Headlight washer system relay
J400	Wiper motor control unit
J519	Onboard supply control unit
J730	Double washer pump relay 2
SB31	Fuse 31 on fuse holder
T6h	6-pin connector, black (connector J)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
V	Windscreen wiper motor
V11	Headlight washer system pump
(367)	Earth connection 2, in main wiring harness
(369)	Earth connection 4, in main wiring harness
*	for models with headlight washer system only
**	Washer pump relay, front

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

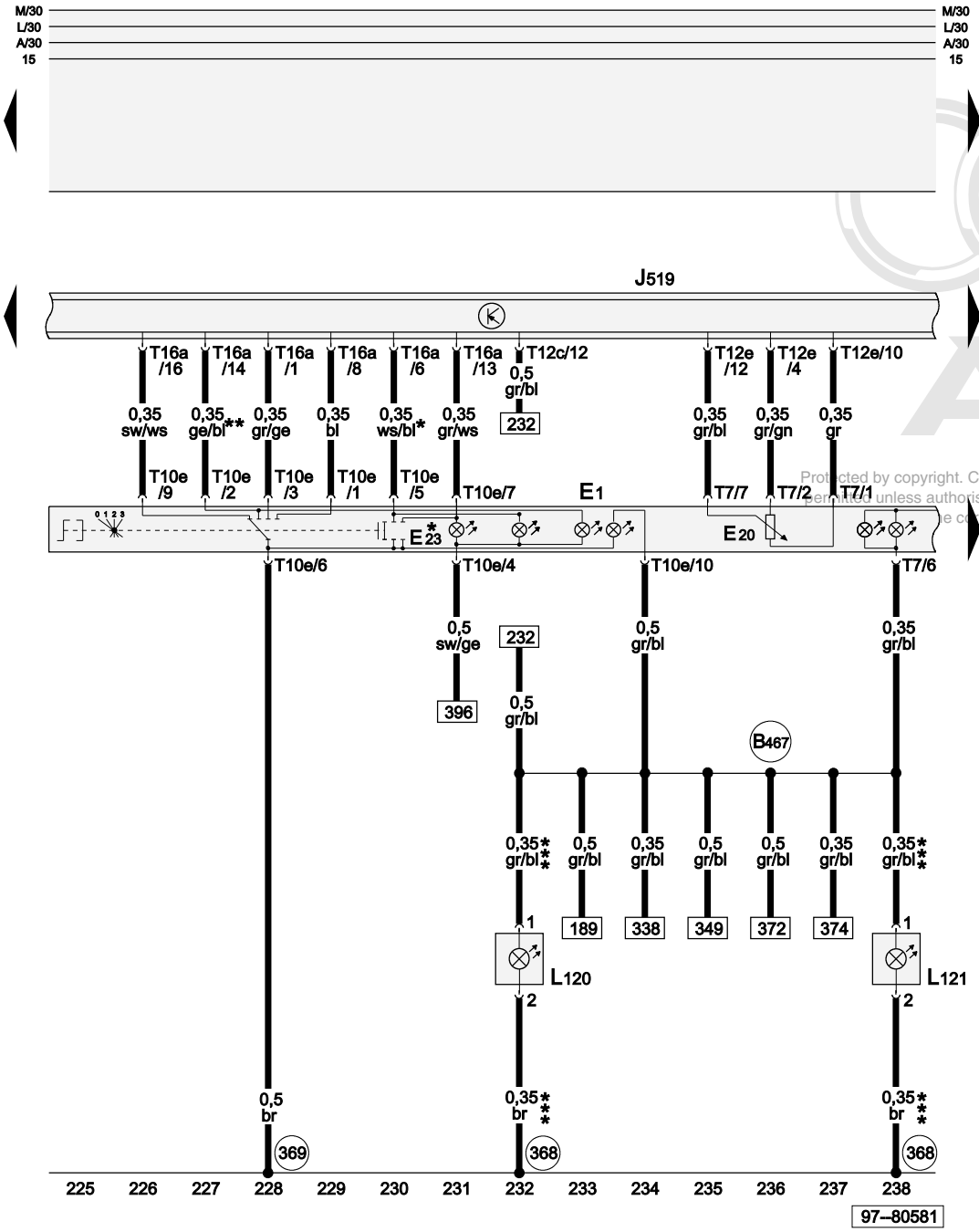


Washer pump, windscreen and rear window washer pump, double washer pump relay 1

J519	Onboard supply control unit
J729	Double washer pump relay 1
T2	2-pin connector, black, in front left engine compartment
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T6h	6-pin connector, black (connector J)
T8b	8-pin connector, brown, on left C-pillar
T8h	8-pin connector, black (connector F)
V12	Rear window wiper motor
V59	Windscreen and rear window washer pump
98	Earth connection, in rear lid wiring harness
B183	Connection 1 (washer pump), in interior wiring harness
B465	Connection 1, in main wiring harness
*	Rear window washer pump relay
**	for models without air conditioning system only
***	for models with air conditioning system only
#	T2 is replaced by T2u, applicable from November 2003

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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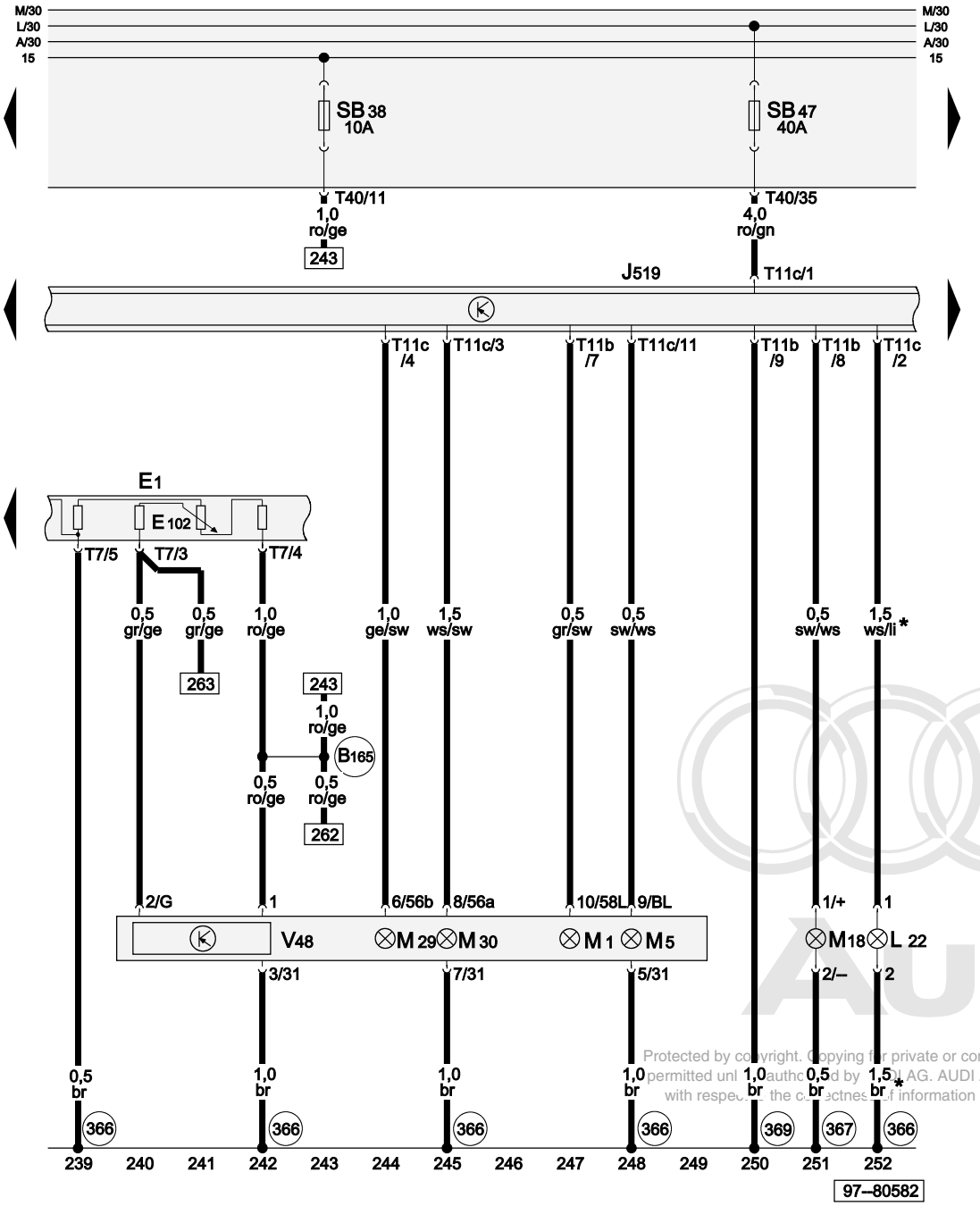
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Light switch, illumination regulators - switches and instruments, front and rear fog light switch

E1	Light switch
E20	Illumination regulators - switches and instruments
E23	Front and rear fog light switch
J519	Onboard supply control unit
L120	Storage compartment illumination bulb
L121	Cup holder illumination bulb
T7	7-pin connector, black (connector B)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T12e	12-pin connector, black (connector G)
T16a	16-pin connector, black (connector E)
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
B467	Connection 3 in main wiring harness

* for models with front fog light only
** for models with automatic headlight switching only
*** for models with shelf illumination and cup holder illumination only

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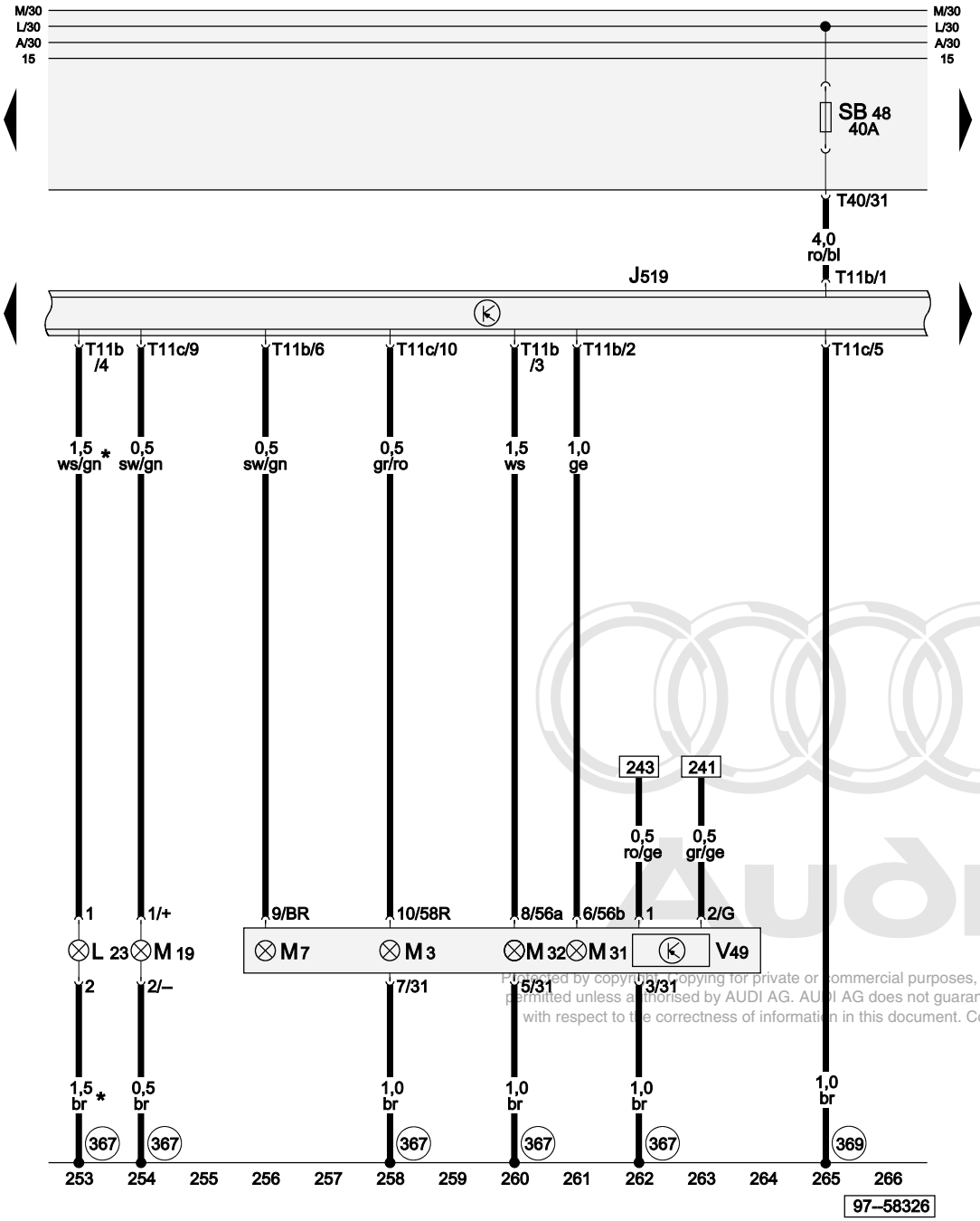


Headlight range control regulator, front left headlight bulbs, left fog light

E1	Light switch
E102	Headlight range control regulator
J519	Onboard supply control unit
L22	Left fog light bulb
M1	Left side light bulb
M5	Front left turn signal bulb
M18	Left side mounted turn signal bulb
M29	Left dipped beam bulb
M30	Left main beam bulb
SB38	Fuse 38 on fuse holder
SB47	Fuse 47 on fuse holder
T7	7-pin connector, black (connector B)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
V48	Left headlight range control motor
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
B165	Positive connection 2 (15), in interior wiring harness
*	for models with front fog light only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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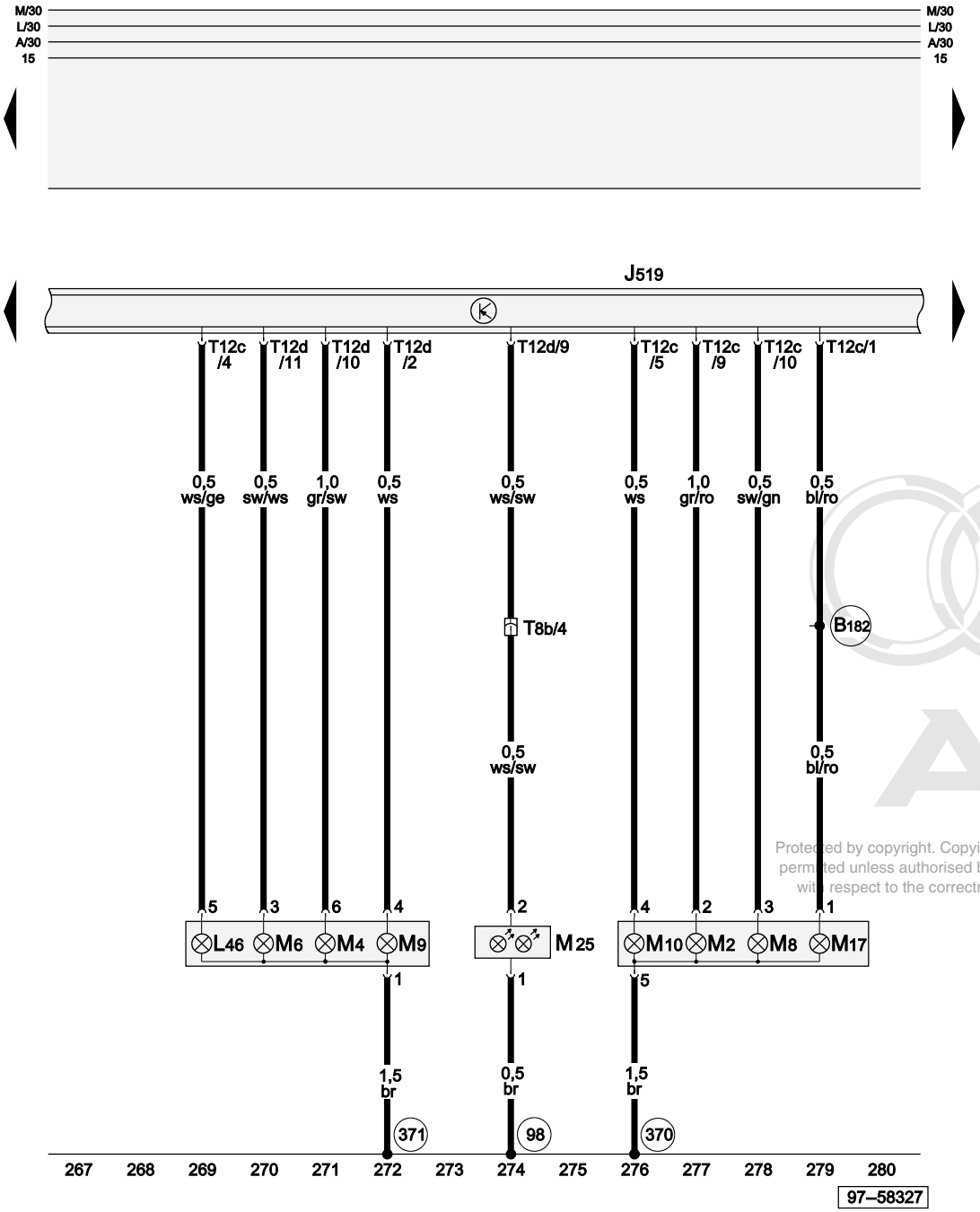


Front right headlight bulbs, right fog light

J519	Onboard supply control unit
L23	Right fog light bulb
M3	Right side light bulb
M7	Front right turn signal bulb
M19	Right side mounted turn signal bulb
M31	Right dipped beam bulb
M32	Right main beam bulb
SB48	Fuse 48 on fuse holder
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
V49	Right headlight range control motor
(367)	Earth connection 2, in main wiring harness
(369)	Earth connection 4, in main wiring harness
*	for models with front fog light only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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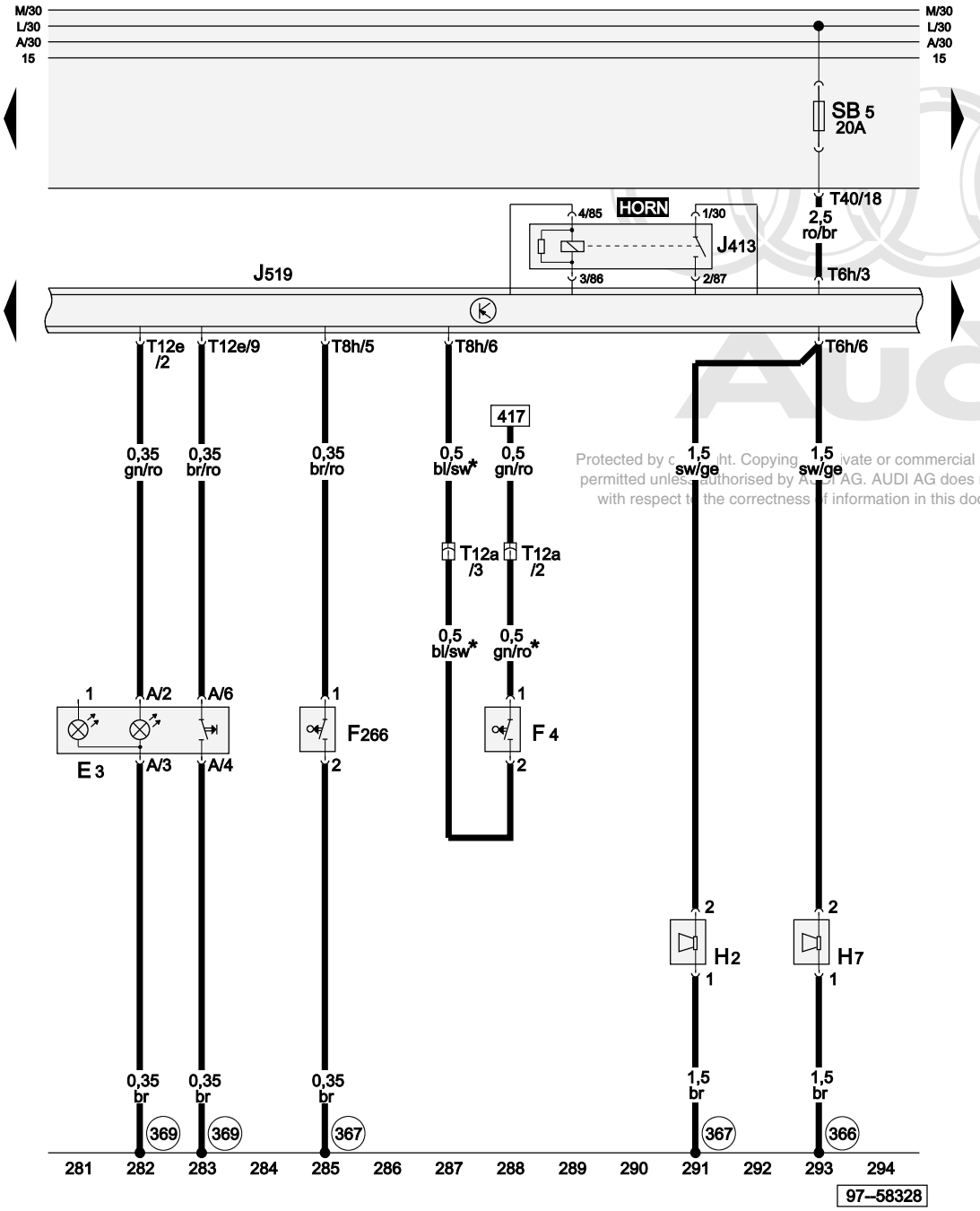


Tail light bulbs, turn signal, brake light, reversing light

J519	Onboard supply control unit
L46	Rear left fog light bulb
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M9	Left brake light bulb
M10	Right brake light bulb
M17	Right reversing light bulb
M25	High level brake light bulb
T8b	8-pin connector, brown, on left C-pillar
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
98	Earth connection, in rear lid wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B182	Connection (RL), in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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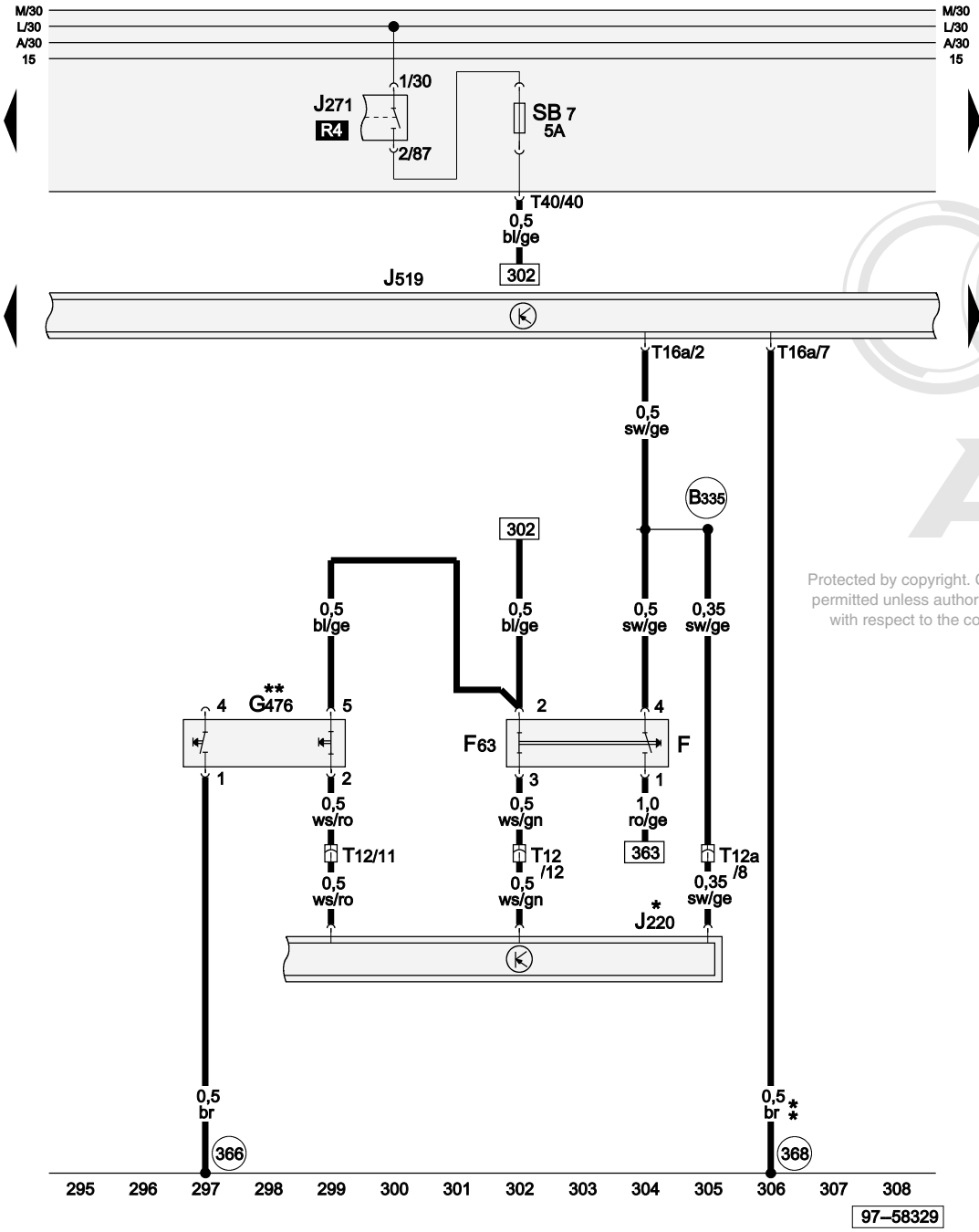


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Hazard warning light switch, treble tone horn, bass tone horn, reversing light switch

E3	Hazard warning light switch
F4	Reversing light switch
F266	Bonnet contact switch
H2	Treble tone horn
H7	Bass tone horn
J413	Horn relay
J519	Onboard supply control unit
SB5	Fuse 5 on fuse holder
T6h	6-pin connector, black (connector J)
T8h	8-pin connector, black (connector F)
T12a	12-pin connector, blue, in plenum chamber
T12e	12-pin connector, black (connector G)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
*	for models with manual gearbox only

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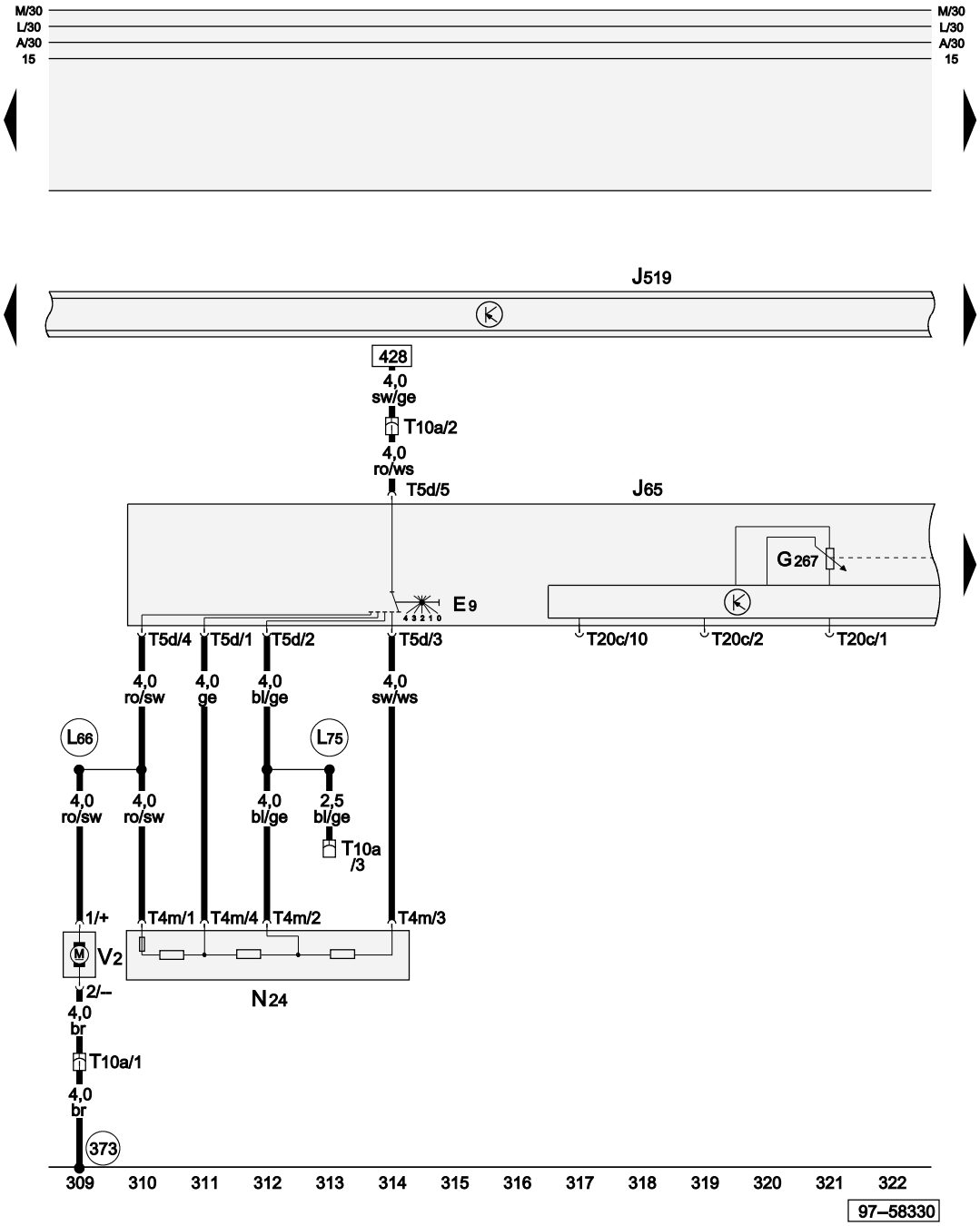


Clutch position sender, brake light switch

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
J271	Motronic current supply relay
J519	Onboard supply control unit
SB7	Fuse 7 on fuse holder
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T16a	16-pin connector, black (connector E)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable engine Current Flow Diagram
**	for models with manual gearbox only

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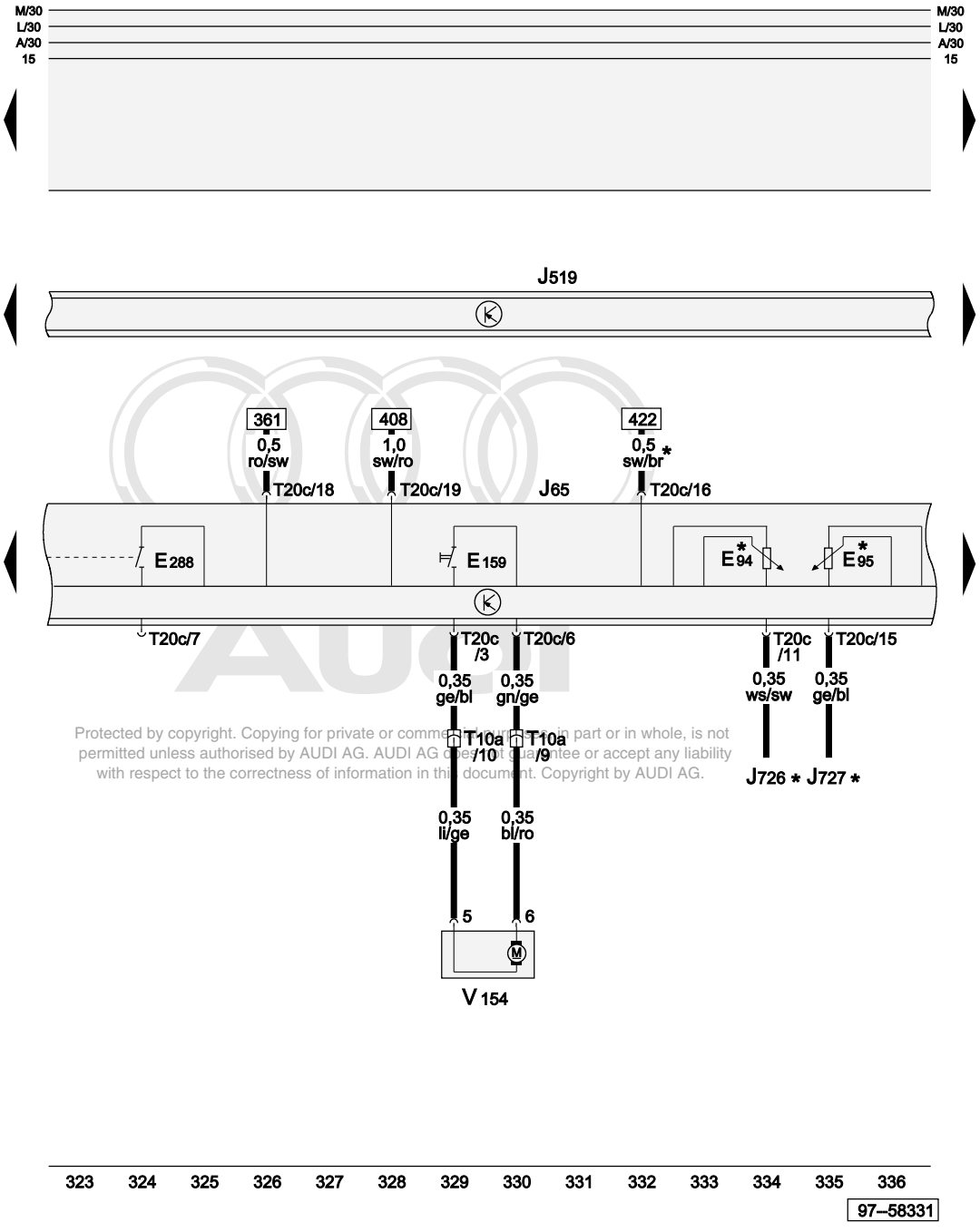


Fresh air blower switch, fresh air blower series resistor with overheating fuse

E9	Fresh air blower switch
G267	Potentiometer, temperature selection rotary knob
J65	Heater control unit
J519	Onboard supply control unit
N24	Fresh air blower series resistor with overheating fuse
T4m	4-pin connector, black (connector A)
T5d	5-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T20c	20-pin connector, black (connector A)
V2	Fresh air blower
373	Earth connection 8, in main wiring harness
L66	Connection, in heater blower wiring harness
L75	Connection 2, in heater blower wiring harness

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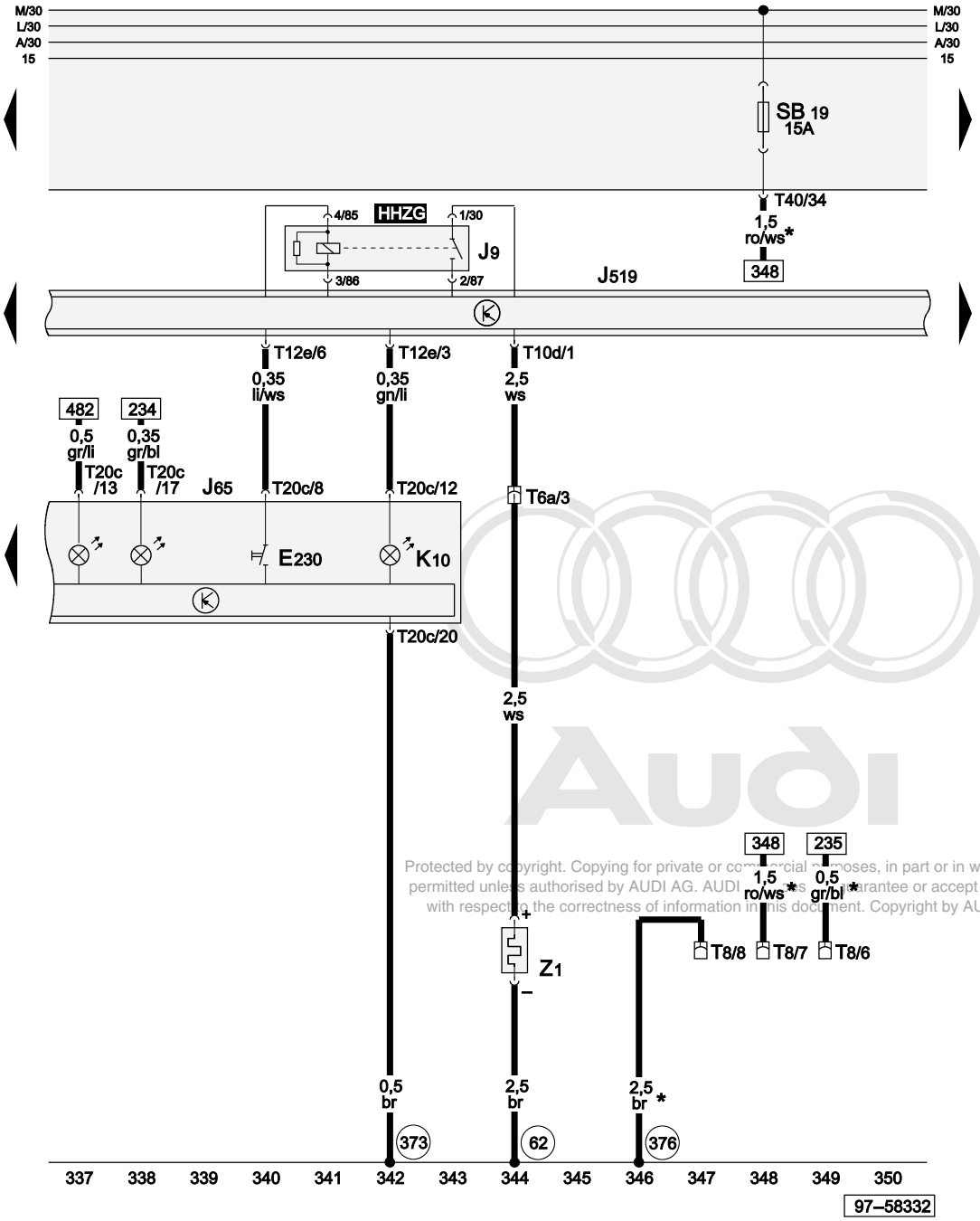


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Fresh air and air recirculation flap switch, regulator for heated driver seat and front passenger seat

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
E159	Fresh air/air recirculation flap switch
E288	Auxiliary heater economy (ECON) button
J65	Heater control unit
J519	Onboard supply control unit
J726	Driver seat heating control unit
J727	Front passenger seat heating control unit
T10a	10-pin connector, black, behind the glove compartment
T20c	20-pin connector, black (connector A)
V154	Fresh air/recirculated air flap control motor
*	⇒ applicable Current Flow Diagram: seat heating

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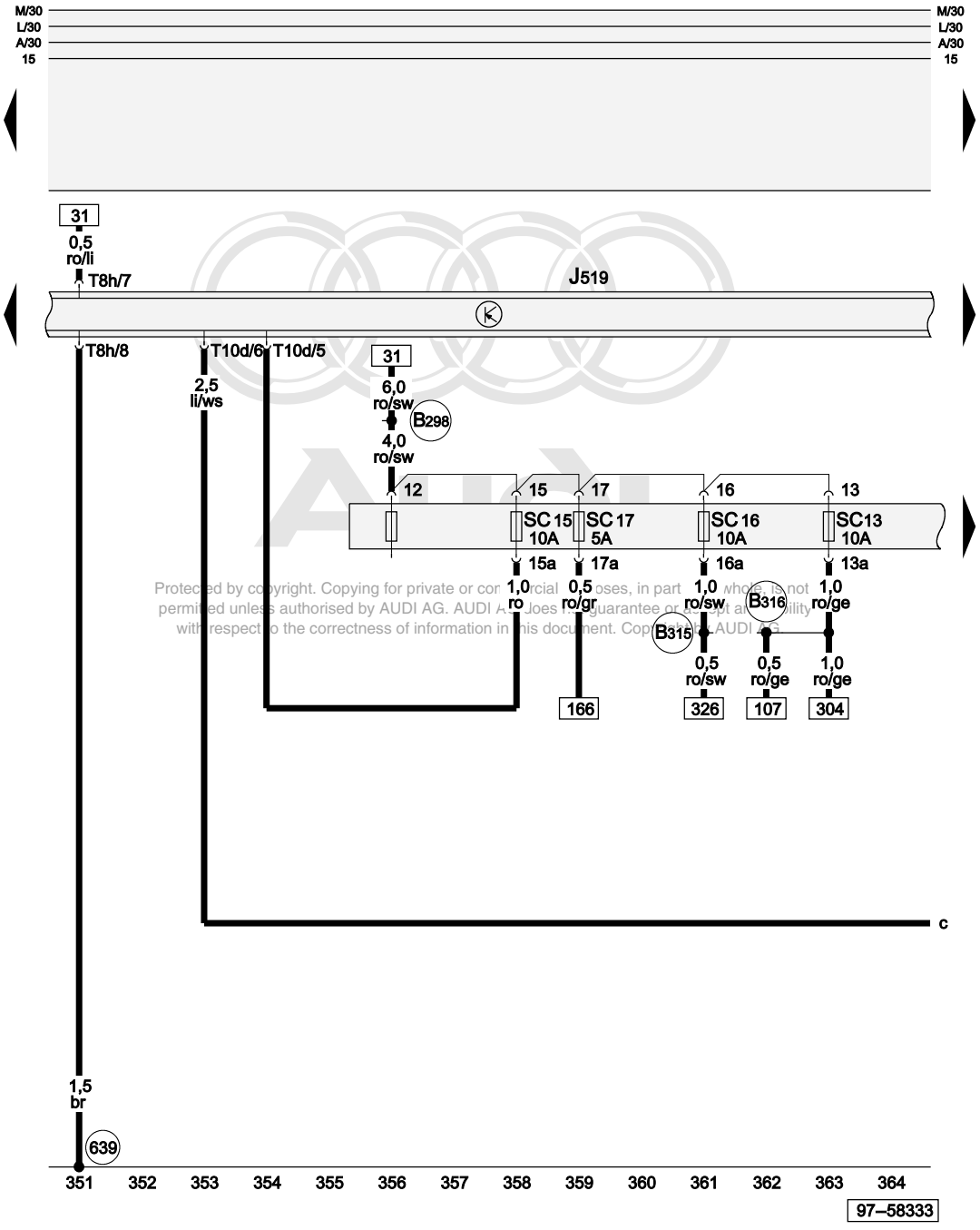


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Heated rear window button, heated rear window relay

E230	Heated rear window button
J9	Heated rear window relay
J519	Onboard supply control unit
K10	Heated rear window warning lamp
SB19	Fuse 19 on fuse holder
T6a	6-pin connector, black, on left C-pillar
T8	8-pin connector, black (connector A)
T10d	10-pin connector, black (connector K)
T12e	12-pin connector, black (connector G)
T20c	20-pin connector, black (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
Z1	Heated rear window
62	Earth point, right C-pillar
373	Earth connection 8, in main wiring harness
376	Earth connection 11, in main wiring harness
*	with preparation for radio

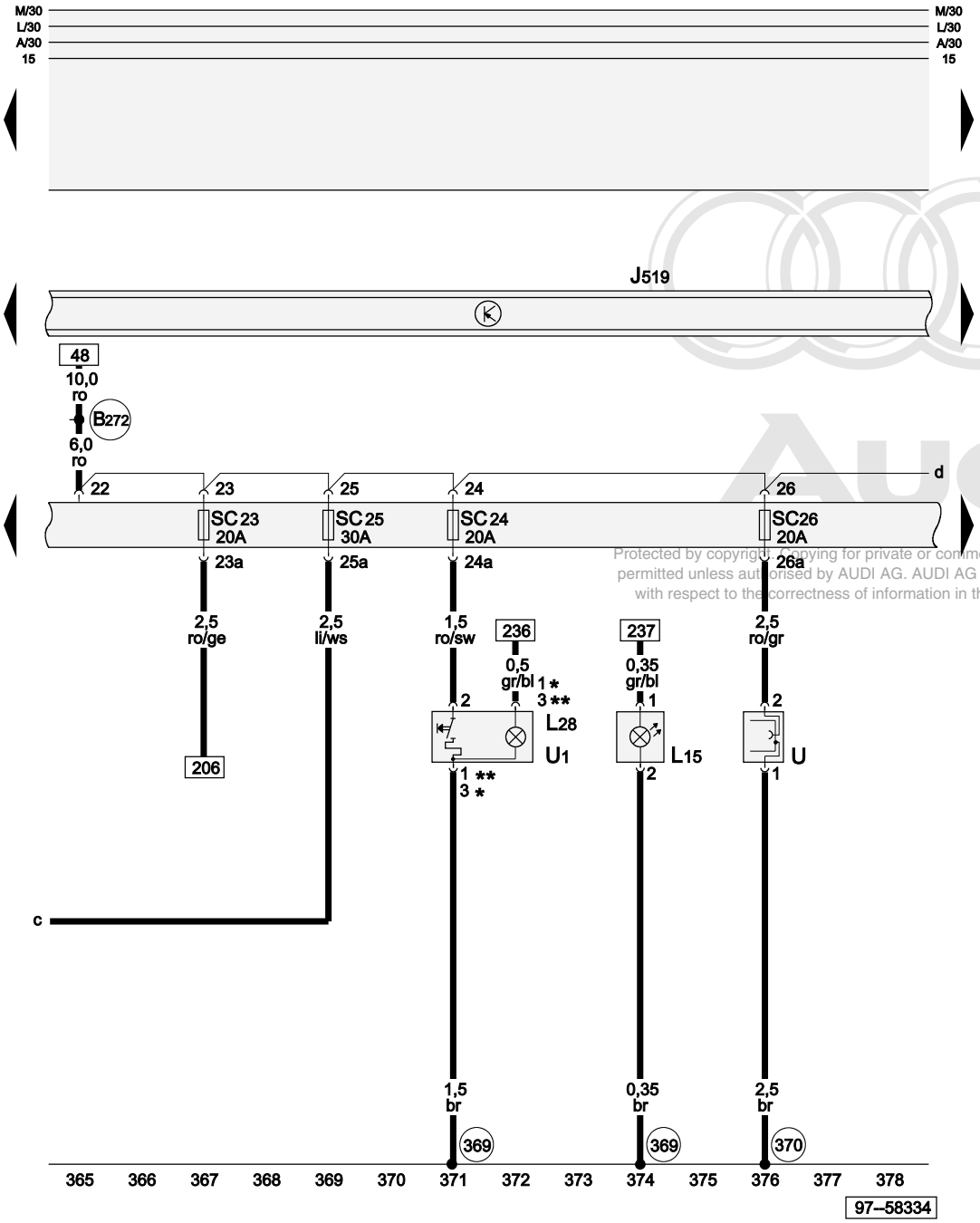


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Fuses on fuse holder

J519	Onboard supply control unit
SC13	Fuse 13 on fuse holder
SC15	Fuse 15 on fuse holder
SC16	Fuse 16 on fuse holder
SC17	Fuse 17 on fuse holder
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
639	Earth point, left A-pillar
B298	Positive connection -2- (30), in main wiring harness
B315	Positive connection 1 (30a), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness

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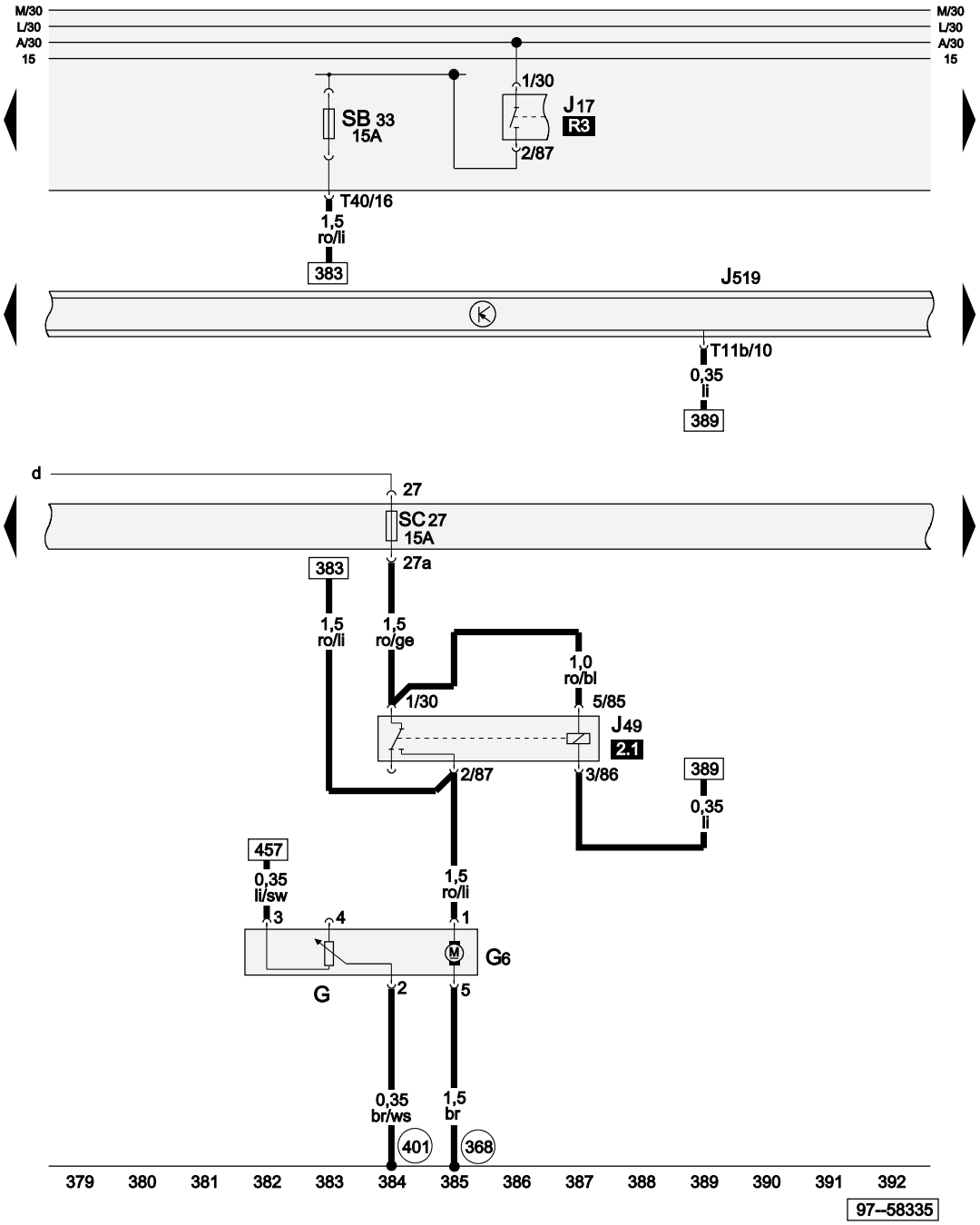


Ashtray illumination, cigarette lighter illumination, fuses on fuse holder

J519	Onboard supply control unit
L15	Ashtray illumination bulb
L28	Cigarette lighter illumination bulb
SC23	Fuse 23 on fuse holder
SC24	Fuse 24 on fuse holder
SC25	Fuse 25 on fuse holder
SC26	Fuse 26 on fuse holder
U	Electric socket
U1	Cigarette lighter
369	Earth connection 4, in main wiring harness
370	Earth connection 5, in main wiring harness
B272	Positive connection (30), in main wiring harness
*	for models with navigation only
**	for models without navigation only

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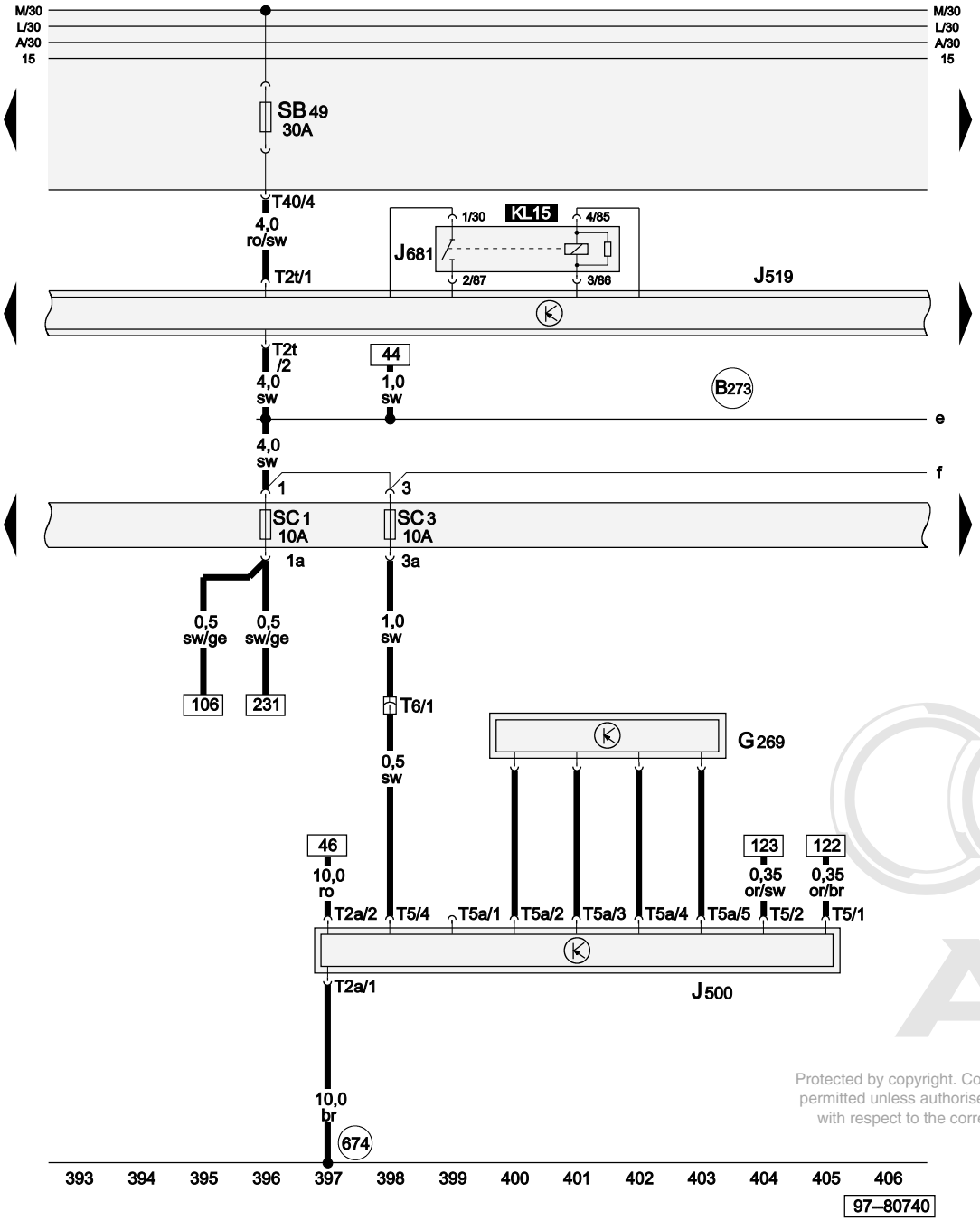


Fuel pump, fuel gauge sender

G	Fuel gauge sender
G6	Fuel pump (pre-supply pump)
J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J519	Onboard supply control unit
SC27	Fuse 27 on fuse holder
SB33	Fuse 33 on fuse holder
T11b	11-pin connector, black (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness

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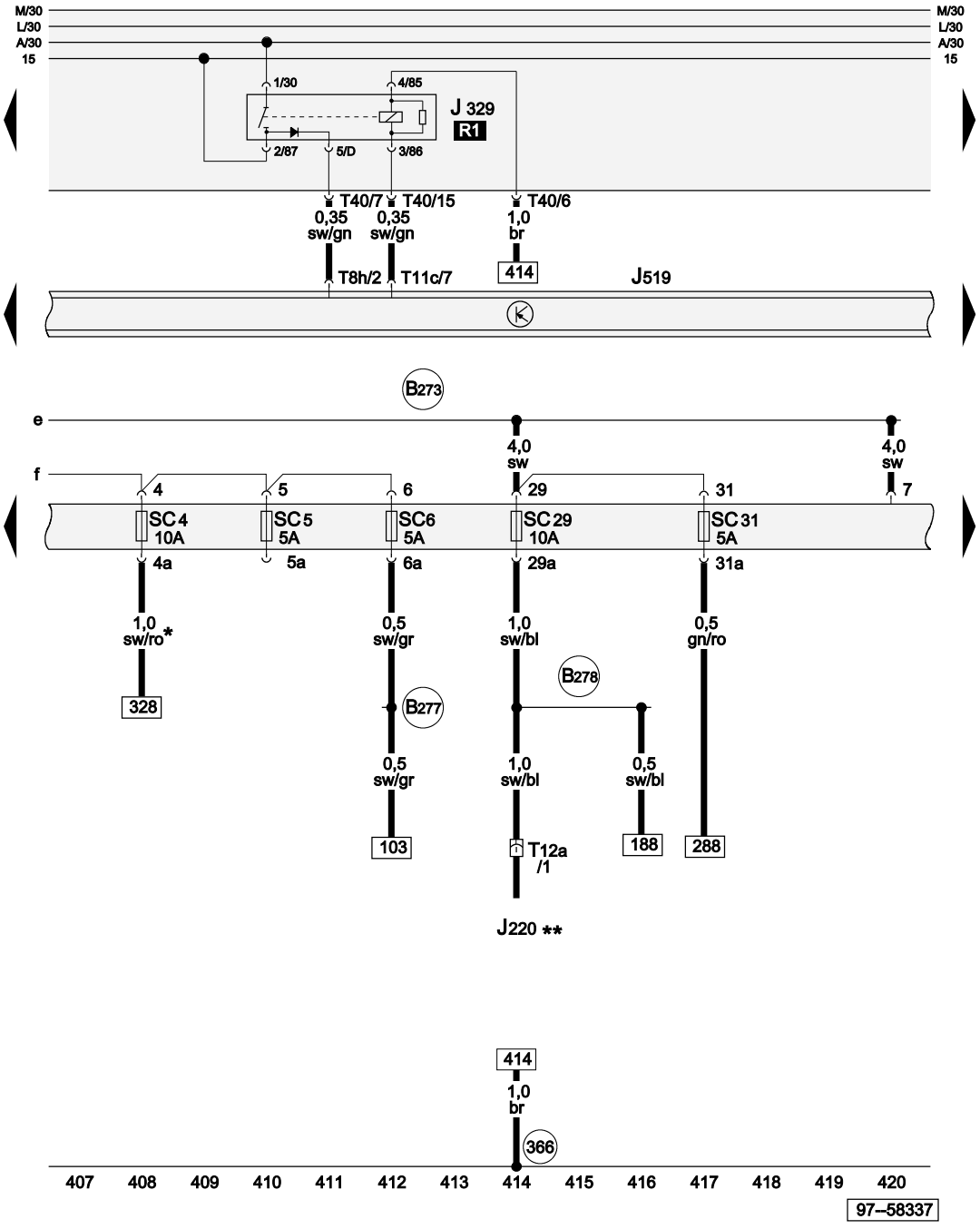


Power steering control unit, terminal 15 voltage supply relay 2

G269	Steering moment sender
J500	Power steering control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC3	Fuse 3 on fuse holder C
T2a	2-pin connector, black (connector A)
T2t	2-pin connector, black (connector L)
T5	5-pin connector, white (connector C)
T5a	5-pin connector, black (connector B)
T6	6-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
674	Earth point 4, on front of left longitudinal member
B273	Positive connection (15), in main wiring harness

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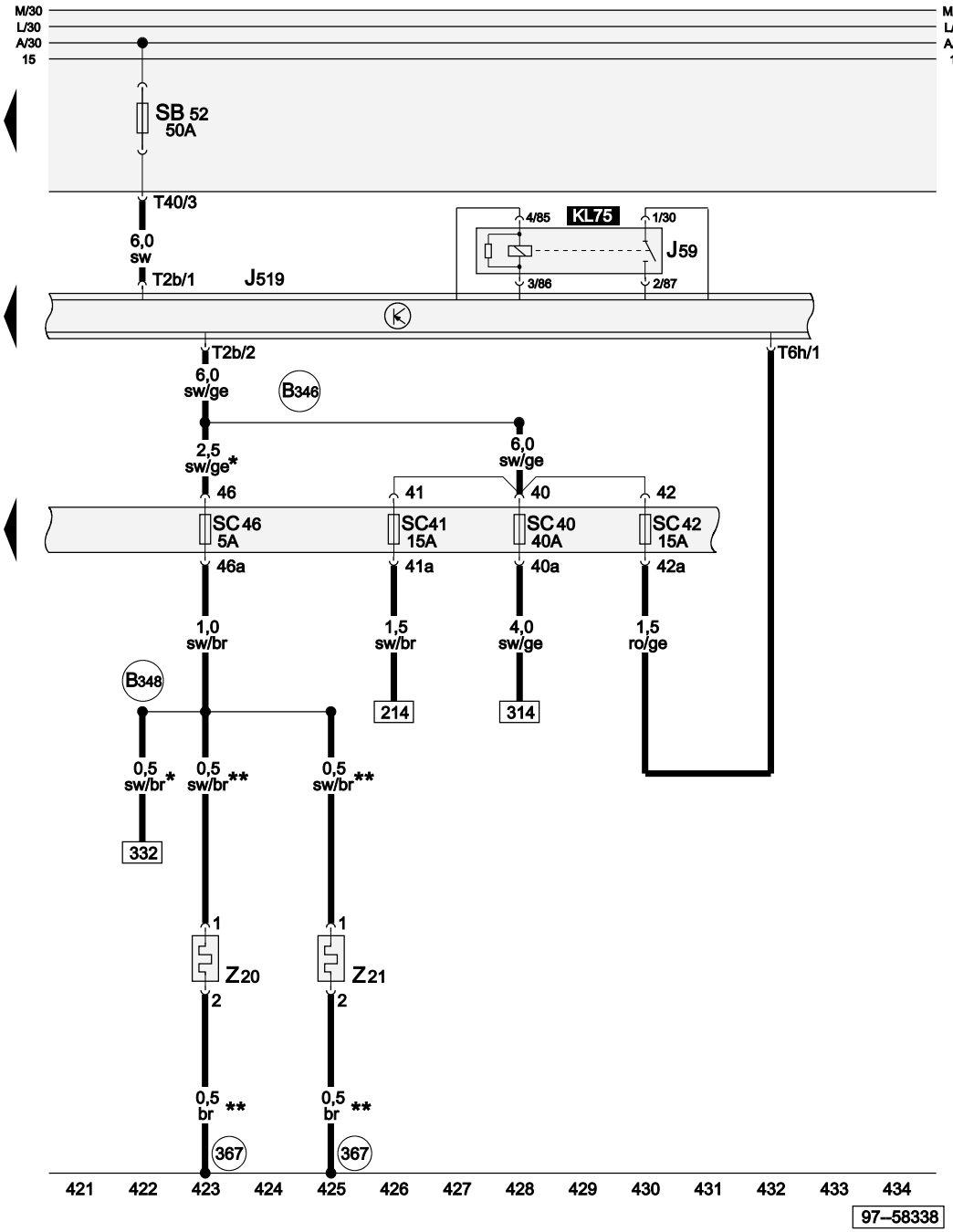


Terminal 15 voltage supply relay, fuses on fuse holder

J220	Motronic control unit
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SC4	Fuse 4 on fuse holder
SC5	Fuse 5 on fuse holder
SC6	Fuse 6 on fuse holder
SC29	Fuse 29 von fuse holder
SC31	Fuse 31 on fuse holder
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T12a	12-pin connector, blue, in plenum chamber
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	for models without air conditioning system only
**	⇒ applicable engine Current Flow Diagram

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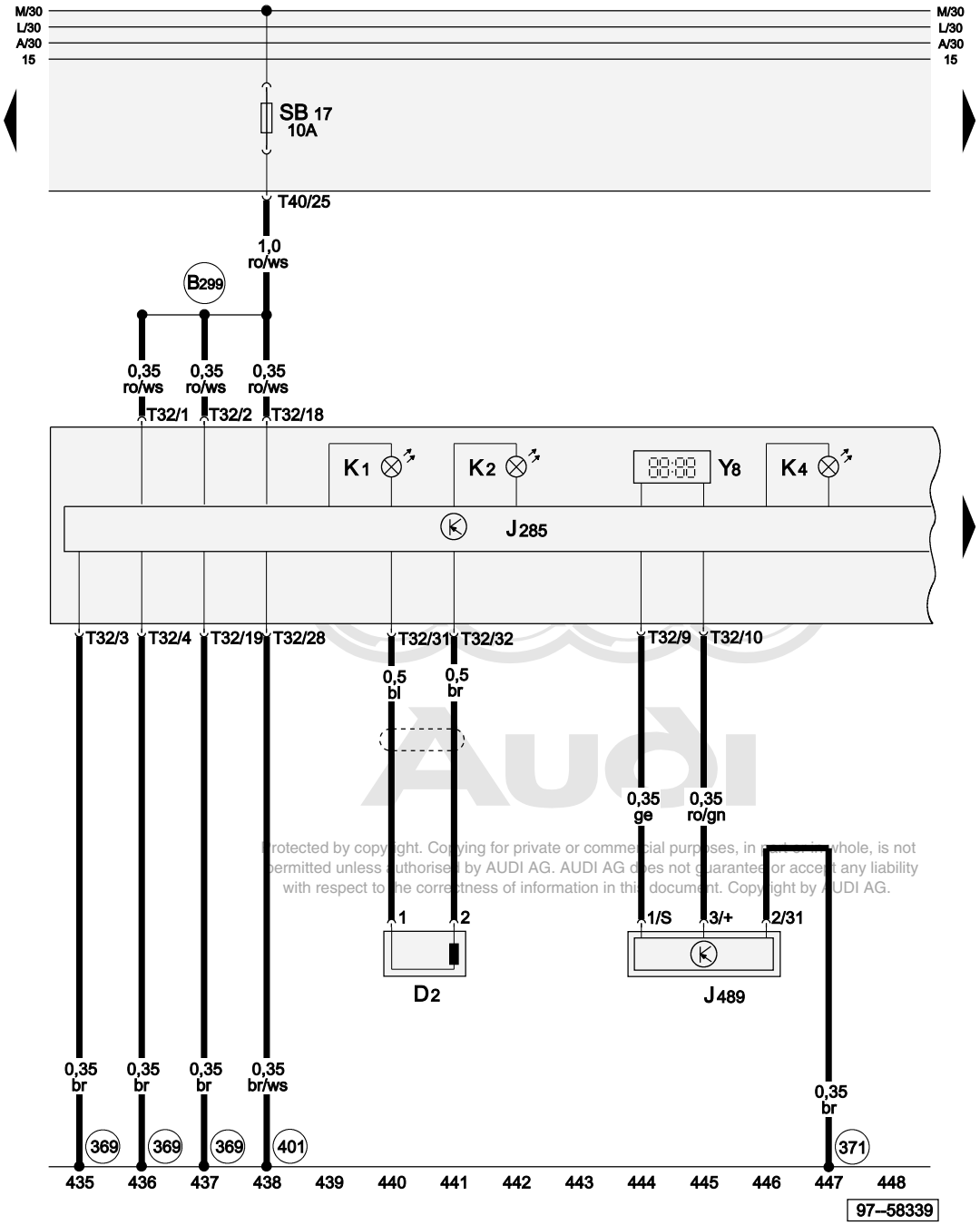


X-contact relief relay, fuses on fuse holder, left and right washer jet heater element

J59	X-contact relief relay
J519	Onboard supply control unit
SB52	Fuse 52 on fuse holder
SC40	Fuse 40 on fuse holder
SC41	Fuse 41 on fuse holder
SC42	Fuse 42 on fuse holder
SC46	Fuse 46 on fuse holder
T2b	2-pin connector, brown (connector I)
T6h	6-pin connector, black (connector J)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
Z20	Left washer jet heater element
Z21	Right washer jet heater element
367	Earth connection 2, in main wiring harness
B346	Connection 1 (75), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
*	for models with seat heating only
**	for models with washer jets heater element only

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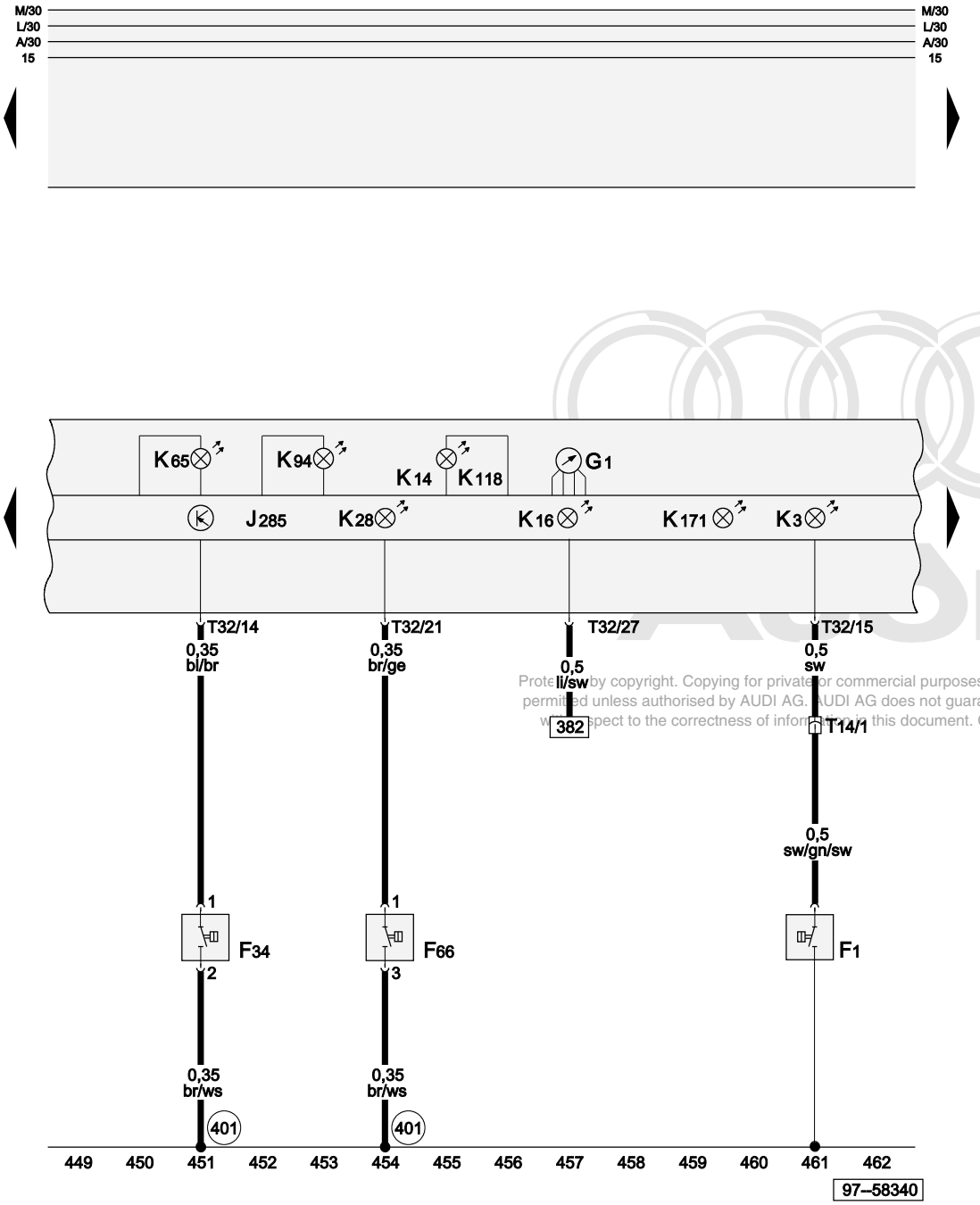


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Radio controlled clock receiver, immobilizer reader coil, control unit with display in dash panel insert

D2	Immobilizer reader coil
J285	Control unit with display in dash panel insert
J489	Radio controlled clock receiver
K1	Main beam warning lamp
K2	Alternator warning lamp
K4	Side light warning lamp
SB17	Fuse 17 on fuse holder
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
Y8	Radio controlled clock
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection -3- (30), in main wiring harness

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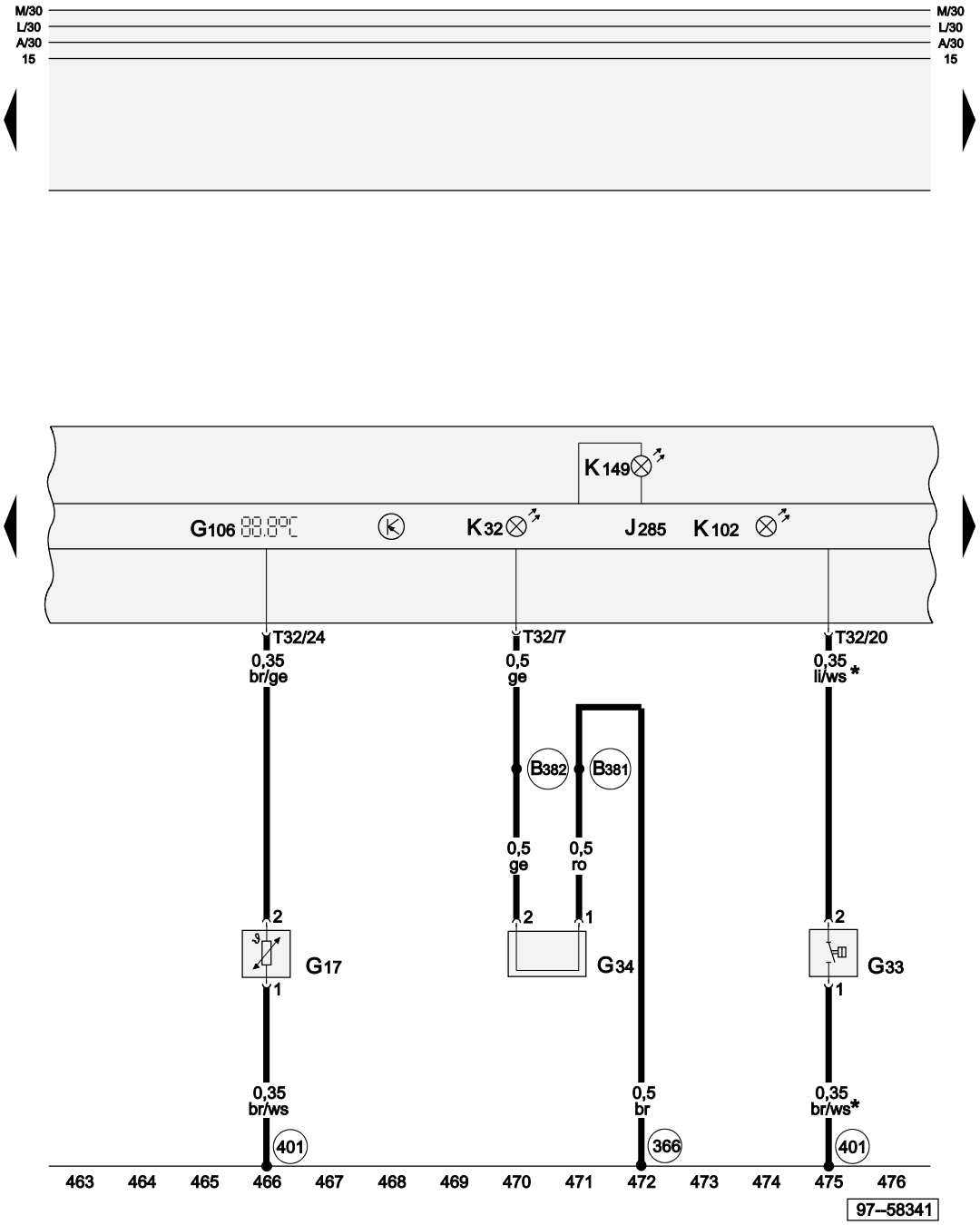


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Oil pressure switch, coolant shortage indicator switch, brake fluid level warning contact, control unit with display in dash panel insert

F1	Oil pressure switch
F34	Brake fluid level warning contact
F66	Coolant shortage indicator switch
G1	Fuel gauge
J285	Control unit with display in dash panel insert
K3	Oil pressure warning lamp
K14	Handbrake warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature/coolant shortage warning lamp
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
K171	Bonnet open warning lamp
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
401	Earth connection (sender earth), in interior wiring harness

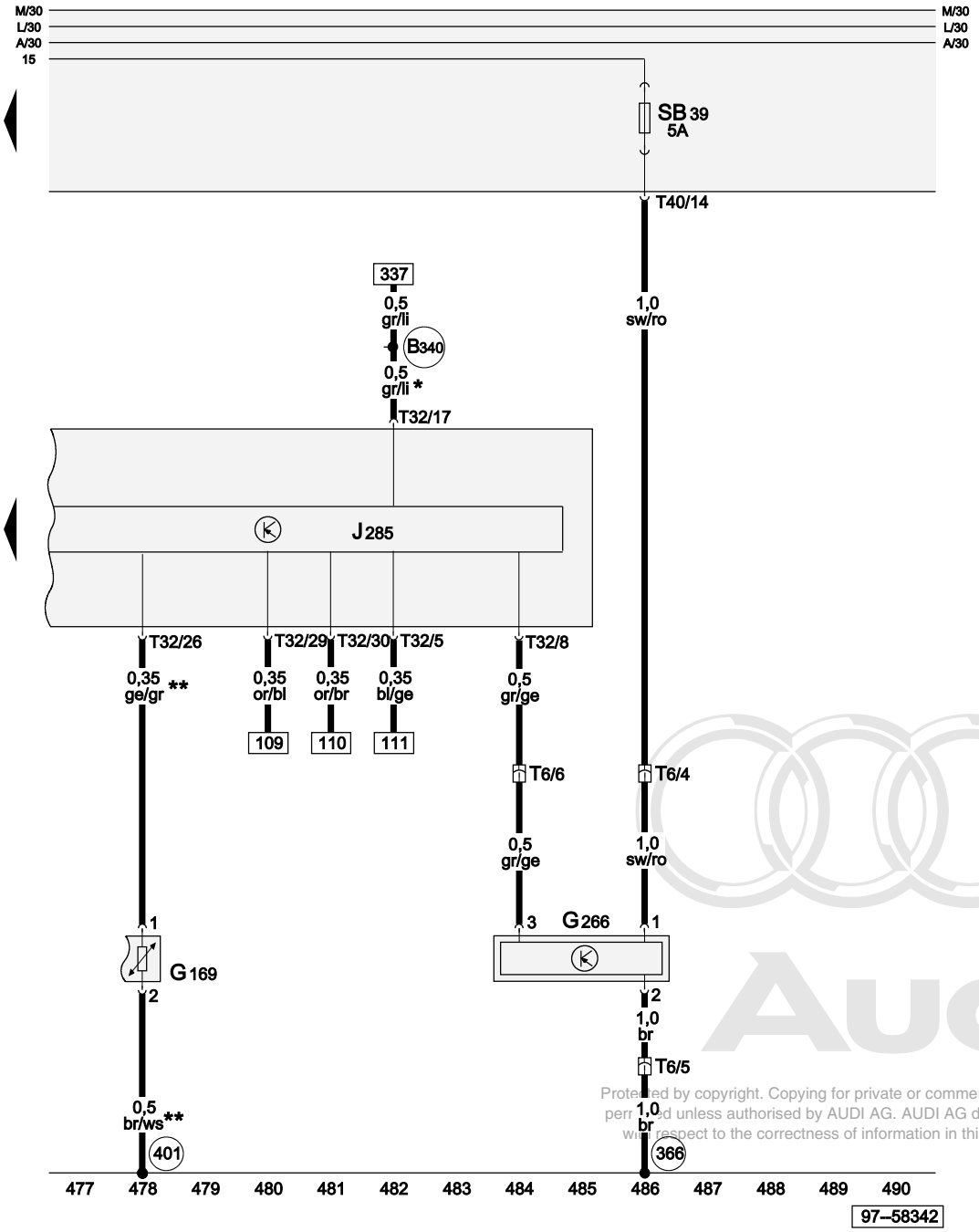


Ambient temperature sensor, windscreen washer fluid level sender/water level, front left brake pad wear sender, control unit with display in dash panel insert

G17	Ambient temperature sensor
G33	Windscreen washer fluid level sender/water level
G34	Front left brake pad wear sender
G106	Ambient temperature indicator
J285	Control unit with display in dash panel insert
K32	Brake pad warning lamp
K102	Rear lid closed warning lamp
K149	Engine electronics warning lamp
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B381	Connection 3 (brake wear indicator), in main wiring harness
B382	Connection 4 (brake wear indicator), in main wiring harness
*	for models with windscreen washer fluid level sender/water level only

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or	=	orange
rs	=	pink



Oil level and oil temperature sender, fuel gauge sender 2, control unit with display in dash panel insert

G169	Fuel gauge sender 2
G266	Oil level and oil temperature sender
J285	Control unit with display in dash panel insert
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
*	for models without air conditioning system and with automatic gearbox only
**	for models with four-wheel drive only

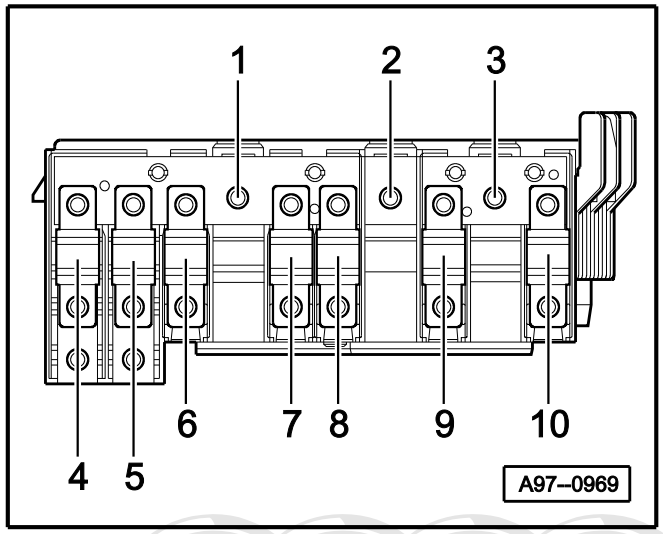
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3.2 l Fuel injection engine (184 kW - Motronic - 6 cylinder), engine code BDB

from model year 2004

Main fuse holder, electronics box



- On electronics box, in engine compartment, front left

Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

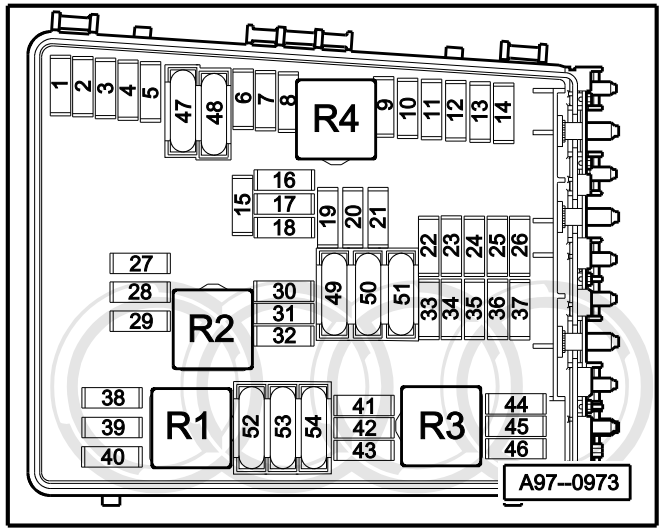
Fuse locations
4 - Fuse 1 on fuse holder/battery (SA1)
5 - Fuse 2 on fuse holder/battery (SA2)
6 - Fuse 3 on fuse holder/battery (SA3)
7 - Fuse 4 on fuse holder/battery (SA4)
8 - Fuse 5 on fuse holder/battery (SA5)
9 - Fuse 6 on fuse holder/battery (SA6)

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Note:

- *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

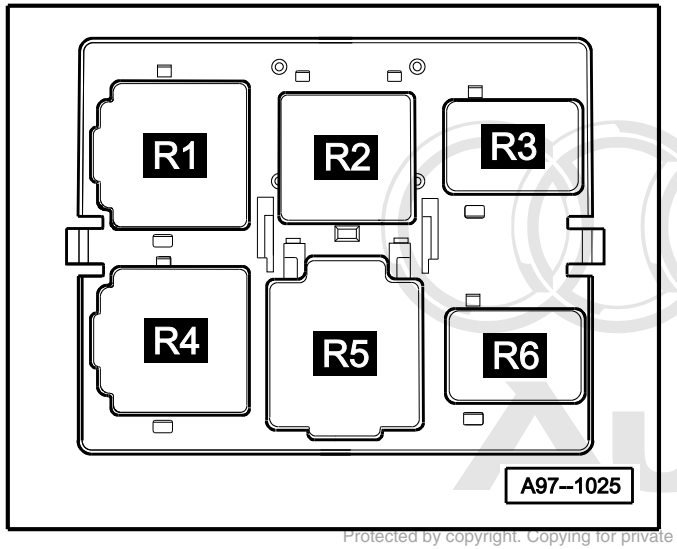
Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

Position of relays
R1 - Terminal 15 voltage supply relay - J329
R2 - Terminal 50 voltage supply relay - J682
R3 - Fuel pump relay - J17
R4 - Motronic current supply relay - J271

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6-point relay carrier

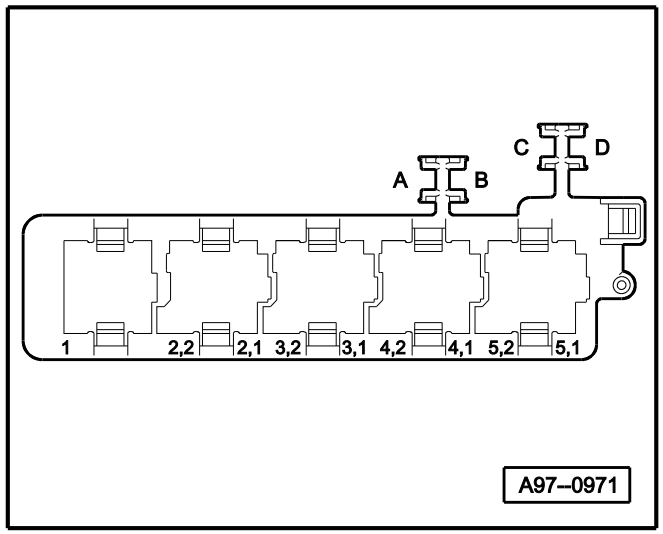


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- Under electronics box in engine compartment, left

Position of relays
R5 - Secondary air pump relay - J299
R6 - Continued coolant circulation relay - J151

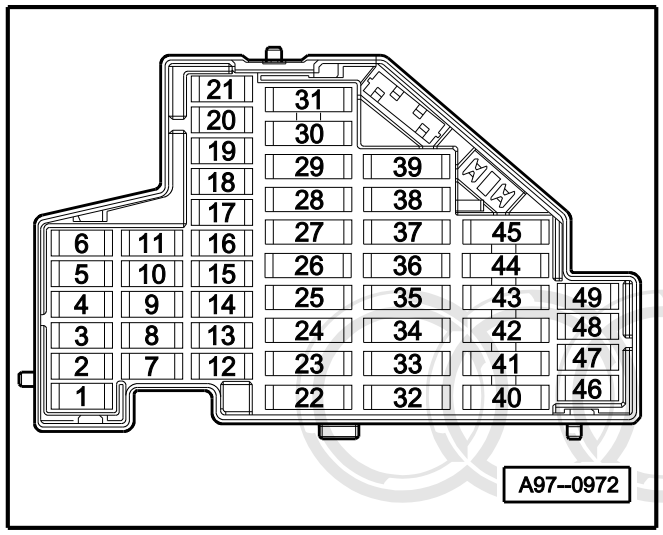
5-point relay carrier



- Above the onboard power supply control unit, dash panel, driver side, bottom left

Position of relays
2.1 - Electric fuel pump 2 relay - J49

Fuse holder



- Driver side dash panel

Fuse colours

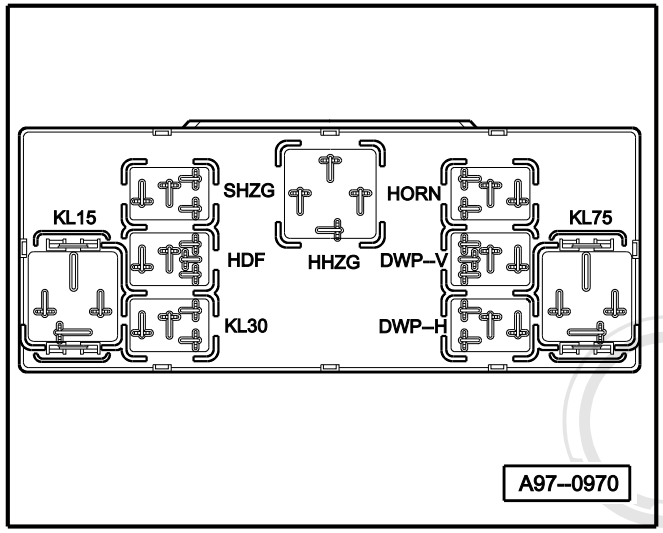
40 A - orange
20 A - yellow
15 A - blue
10 A - red
5 A - beige

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Note:

- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*

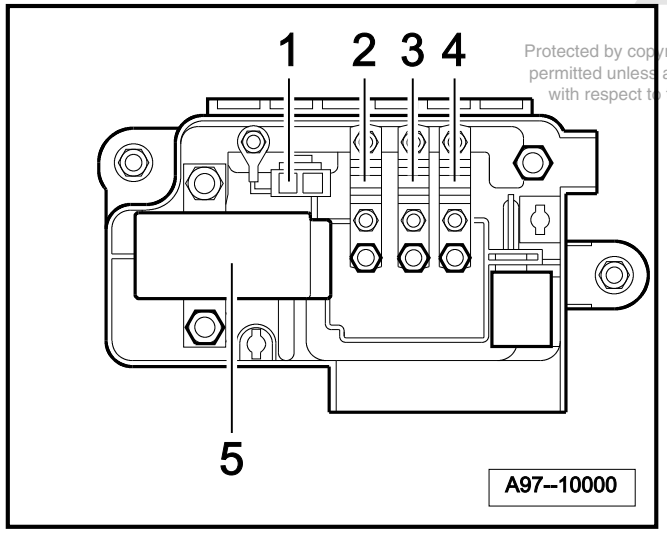
Onboard supply control unit - J519



♦ Dash panel, driver side, bottom left

Position of relays
KL15 - Terminal 15 voltage supply relay 2 - J681

Main fuse box



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♦ In luggage compartment, rear right

Fuse locations

1 - Fuse 1 on fuse holder - SD1
2 - Fuse -2- on fuse holder - SD2
3 - Fuse -3- on fuse holder - SD3
4 - Fuse 4 on fuse holder - SD4
Position of relays

5 - Battery cut-off relay - J655

Note:

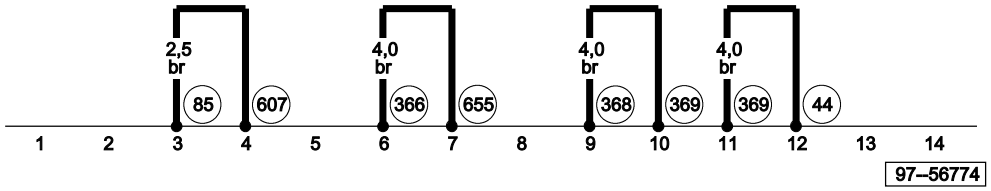
- *The fuses in the main fuse box are designated as SD in the Current Flow Diagram.*

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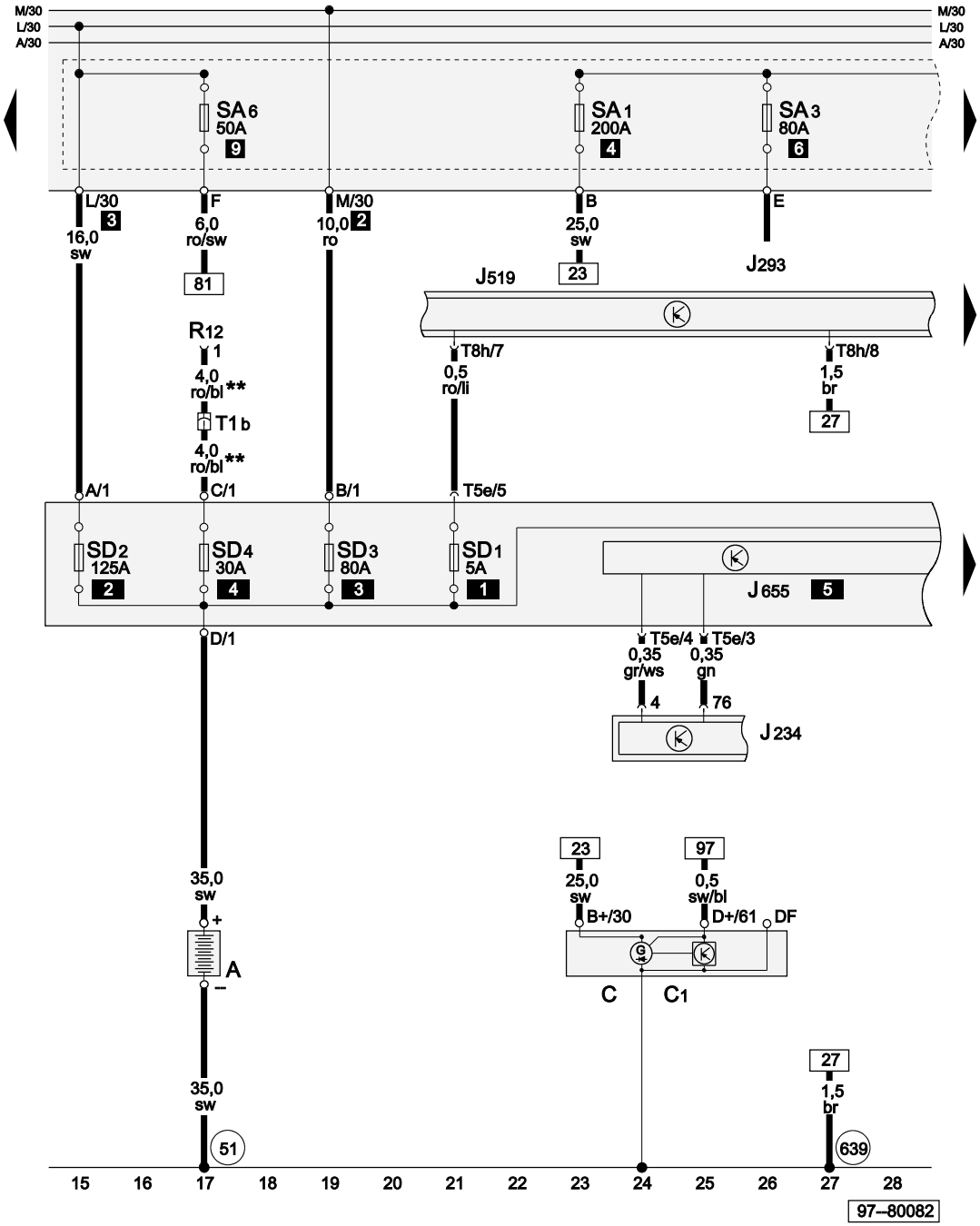
Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection -1-, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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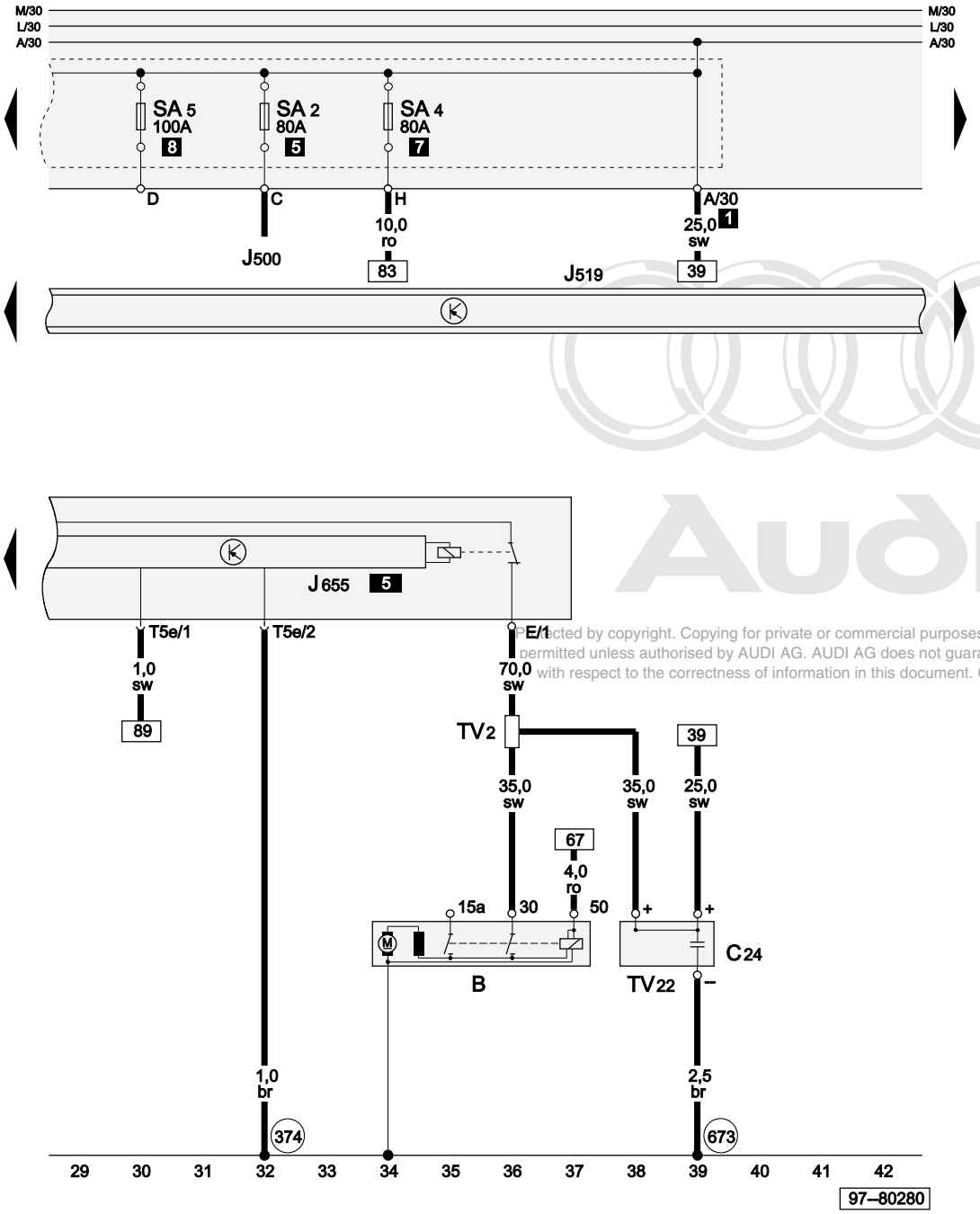


Battery, alternator

A	Battery
C	Alternator
C1	Voltage regulator
J234	Airbag control unit
J293	Radiator fan control unit
J519	Onboard supply control unit
J655	Battery cut-off relay
R12	Amplifier
SA1	Fuse 1 on fuse holder on battery
SA3	Fuse 3 on fuse holder on battery
SA6	Fuse 6 on fuse holder on battery
SD1	Fuse 1 on fuse holder
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
SD4	Fuse 4 on fuse holder
T1b	1-pin connector, black, on left C-pillar
T5e	5-pin connector, yellow, on main fuse box
T8h	8-pin connector, black (connector F)
51	Earth point, on right in luggage compartment
639	Earth point, left A-pillar
**	for models with Bose sound system only

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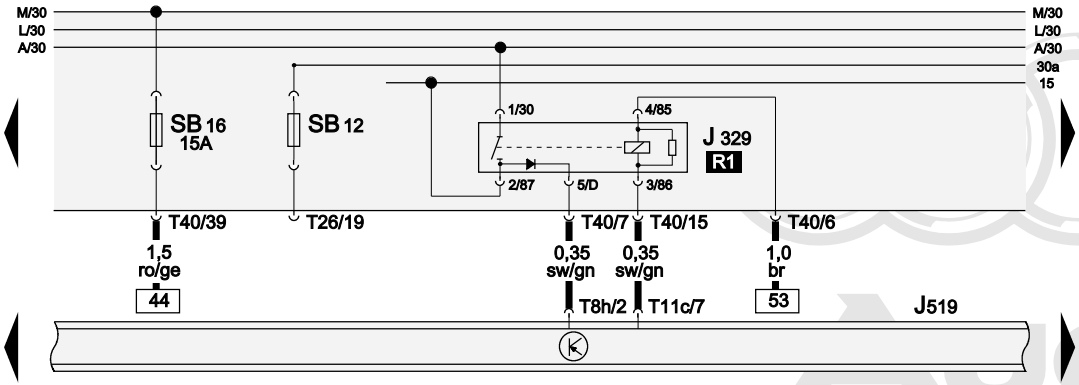


Starter, suppression filter, battery cut-off relay

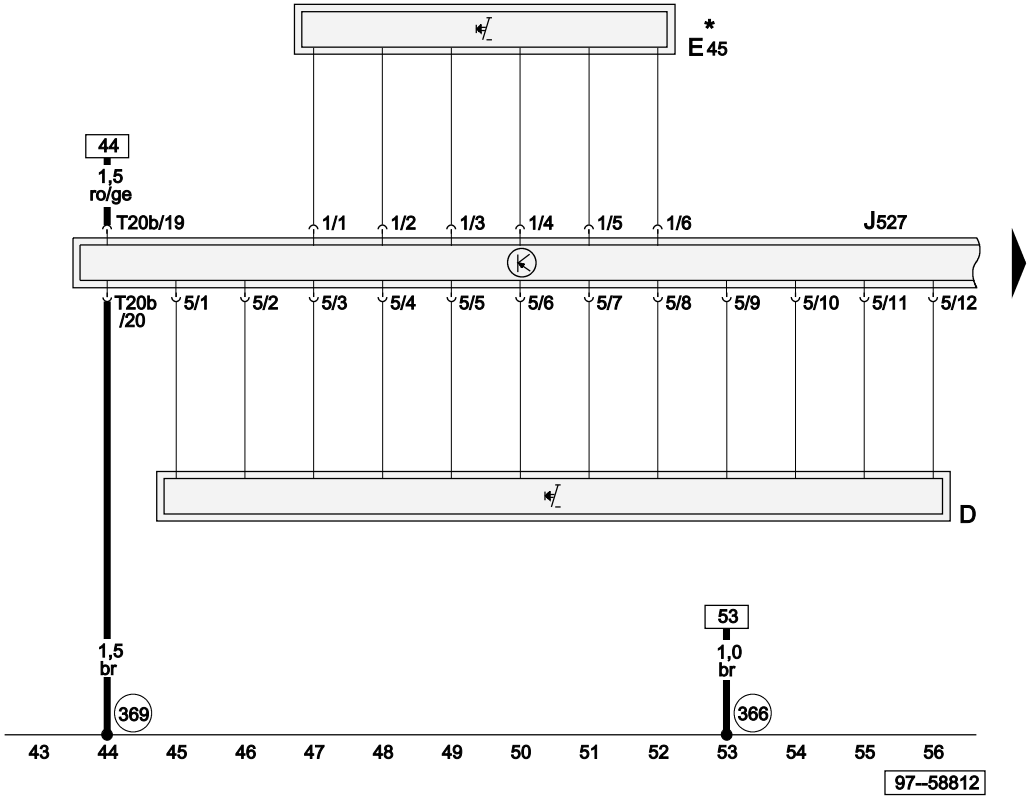
B	Starter
C24	Suppression filter
J500	Power steering control unit
J519	Onboard supply control unit
J655	Battery cut-off relay
SA2	Fuse 2 on fuse holder on battery
SA4	Fuse 4 on fuse holder on battery
SA5	Fuse 5 on fuse holder on battery
T5e	5-pin connector, yellow, on main fuse box
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
374	Earth connection 9, in main wiring harness
673	Earth point 3, on front of left longitudinal member

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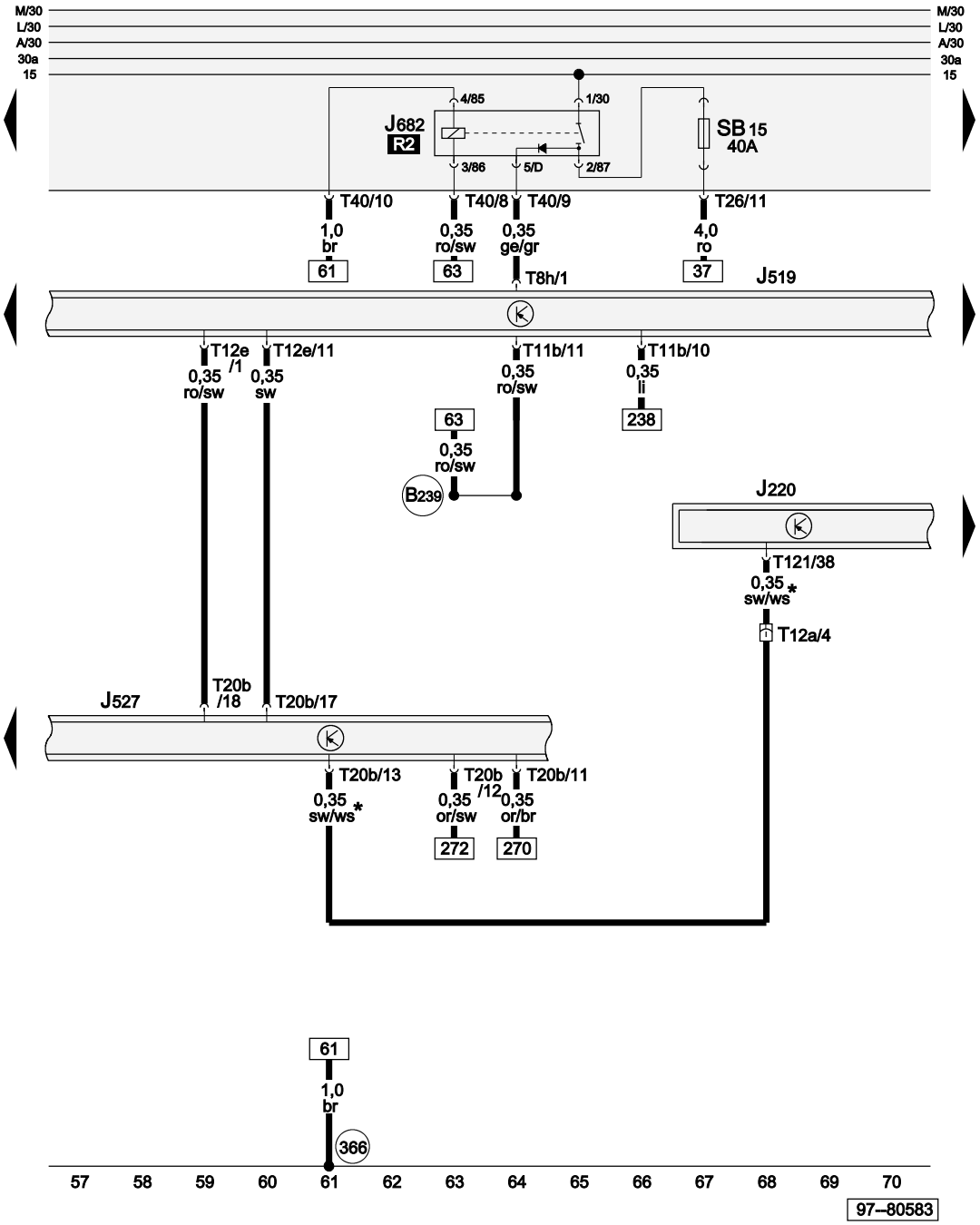
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Terminal 15 voltage supply relay, cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB12	Fuse 12 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, brown, on electronics box in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
*	for models with cruise control system only

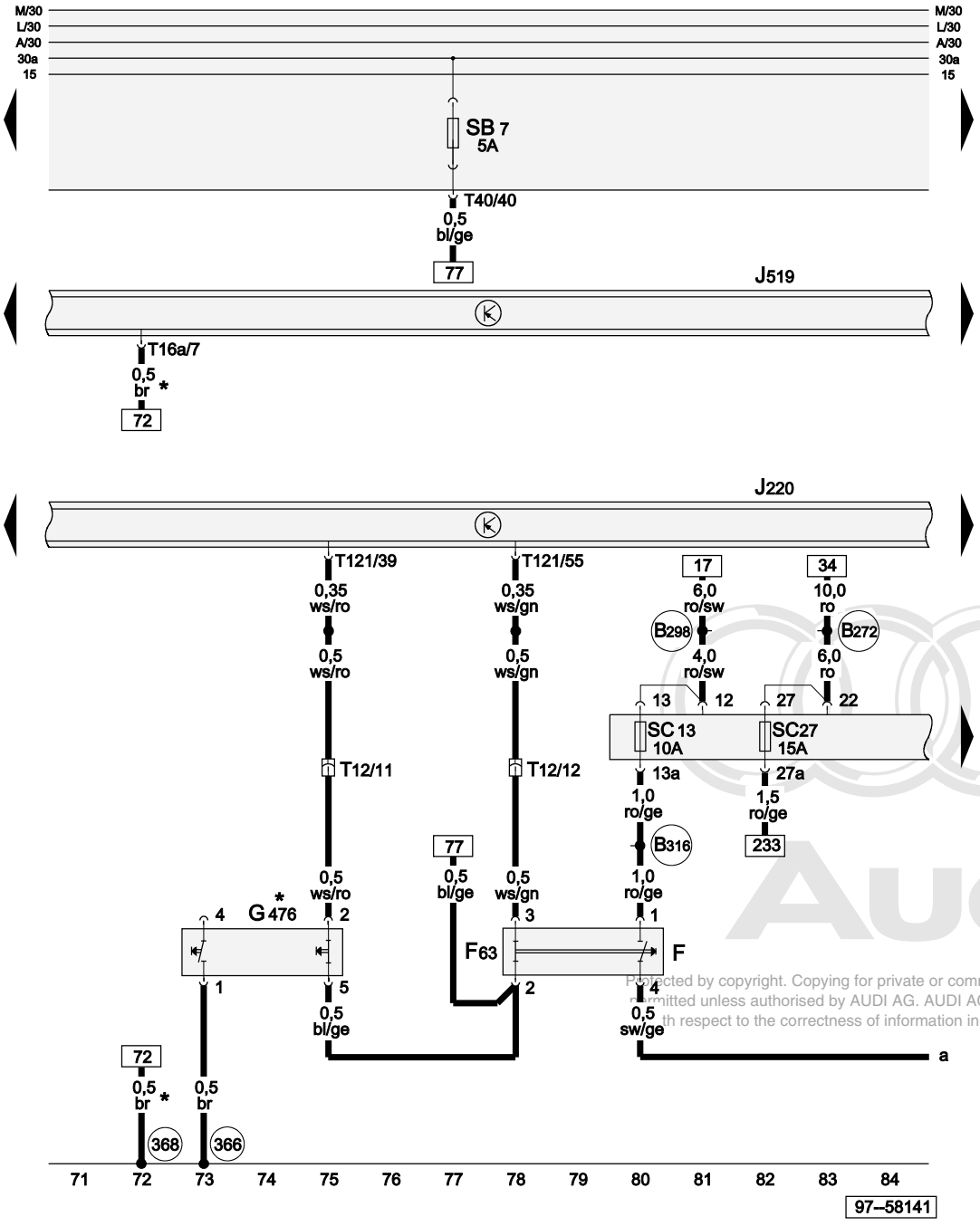


Terminal 50 voltage supply relay

J220	Motronic control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12a	12-pin connector, blue, in plenum chamber
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, brown, on electronics box in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
366	Earth connection 1, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	for models with cruise control system only

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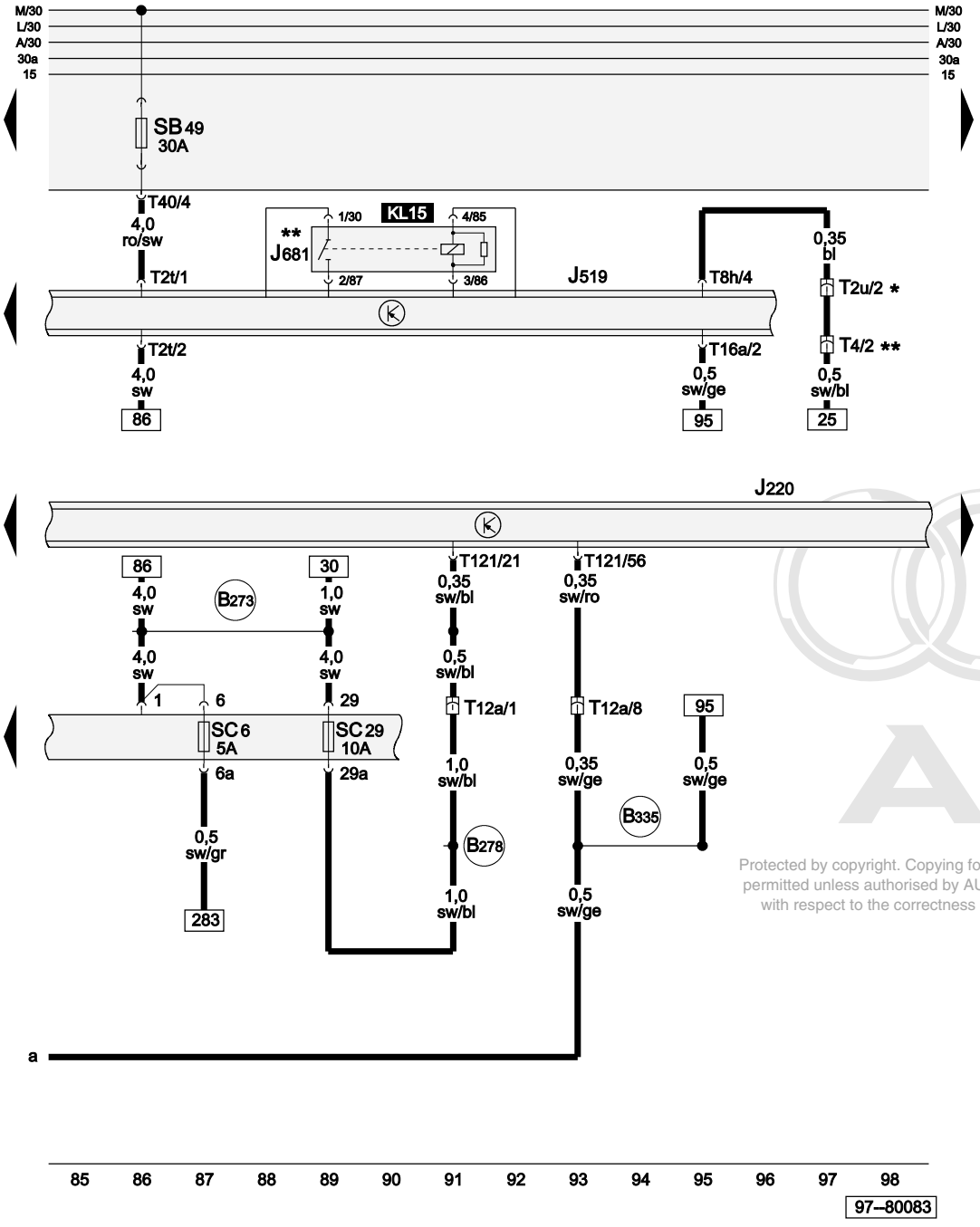


Brake light switch, brake pedal switch, clutch travel sender, fuses on fuse holder

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
J519	Onboard supply control unit
SB7	Fuse 7 on fuse holder
SC13	Fuse 13 on fuse holder
SC27	Fuse 27 on fuse holder
T12	12-pin connector, green, in plenum chamber
T16a	16-pin connector, black (connector E)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
B272	Positive connection (30), in main wiring harness
B298	Positive connection -2- (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
*	for models with manual gearbox only

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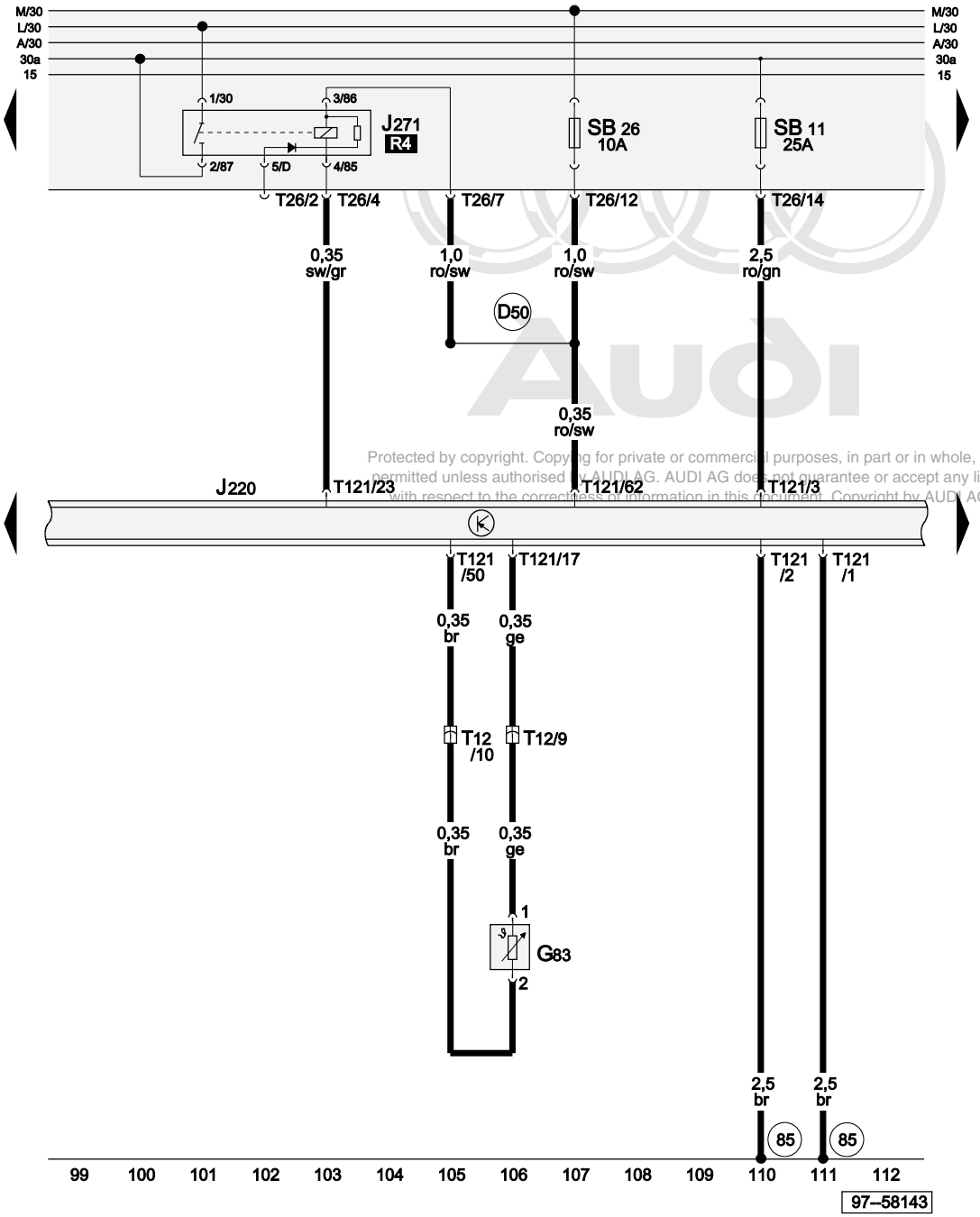


Terminal 15 voltage supply relay 2, fuses on fuse holder

J220	Motronic control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB49	Fuse 49 on fuse holder
SC6	Fuse 6 on fuse holder
SC29	Fuse 29 on fuse holder
T2t	2-pin connector, black (connector L)
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T12a	12-pin connector, blue, in plenum chamber
T16a	16-pin connector, black (connector E)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	for models without air conditioning system only
**	for models with air conditioning system only

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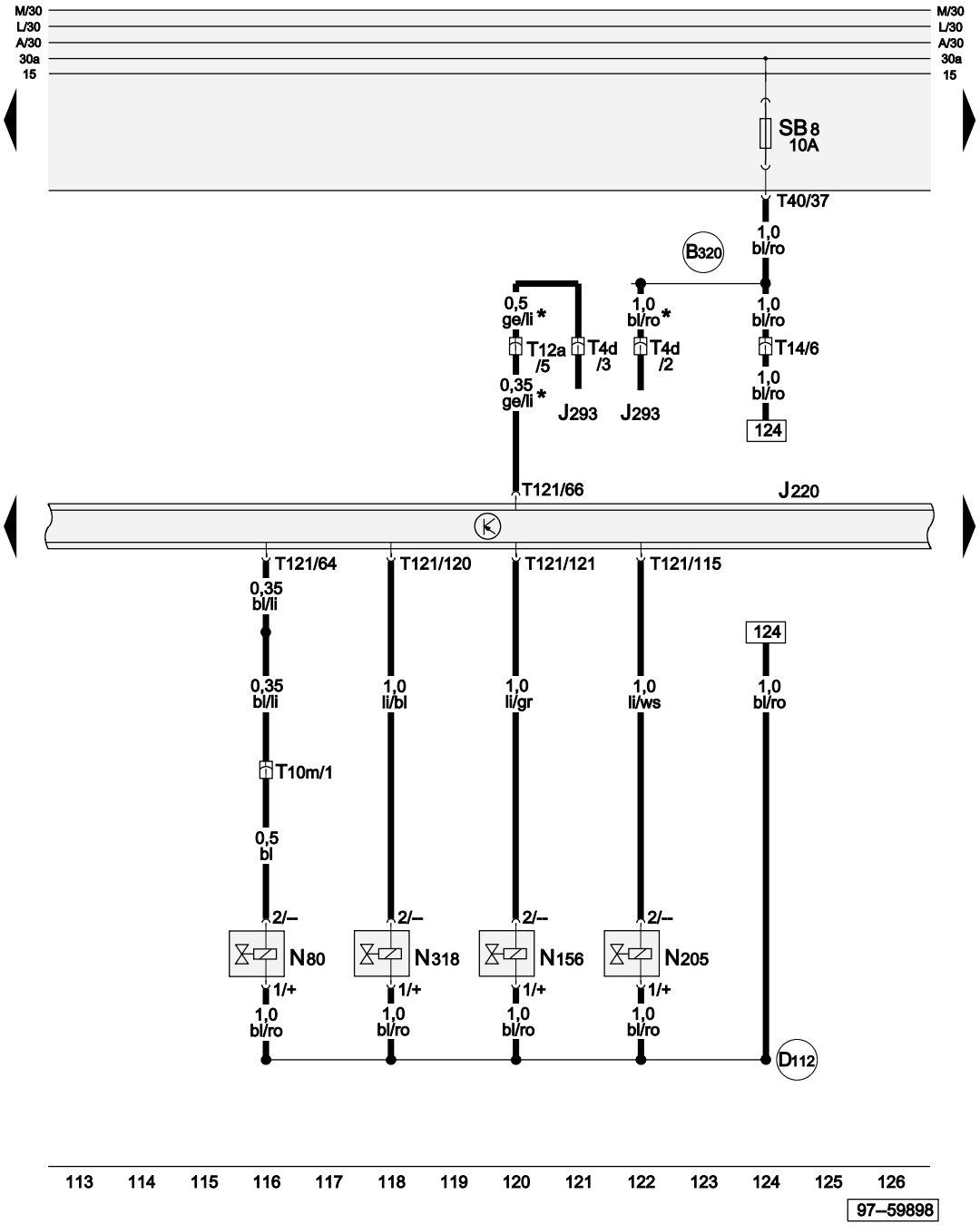


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Motronic current supply relay, radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J220	Motronic control unit
J271	Motronic current supply relay
SB11	Fuse 11 on fuse holder
SB26	Fuse 26 on fuse holder
T12	12-pin connector, green, in plenum chamber
T26	26-pin connector, brown, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
(85)	Earth connection -1-, in engine compartment wiring harness
(D50)	Positive connection (30), in engine compartment wiring harness

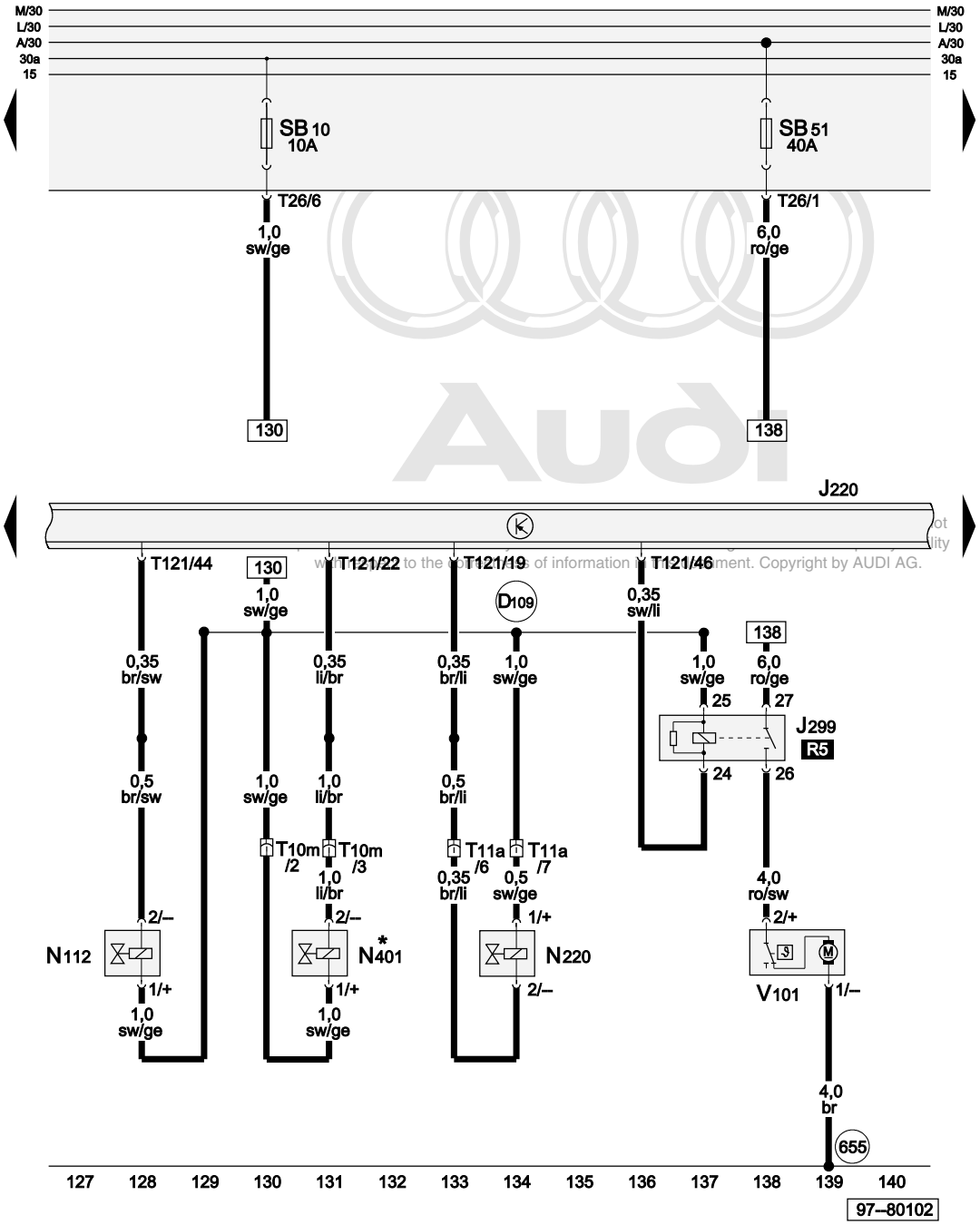


Variable intake manifold change-over solenoid valves, camshaft timing adjustment, activated charcoal filter system

J220	Motronic control unit
J293	Radiator fan control unit
N80	Activated charcoal filter system solenoid valve 1 (pulsed)
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
N318	Exhaust camshaft control valve 1
SB8	Fuse 8 on fuse holder
T4d	4-pin connector, black, on radiator fan (front end)
T10m	10-pin connector, black, near relay carrier electronics box
T12a	12-pin connector, blue, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
B320	Positive connection 6 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
*	See applicable Current Flow Diagram: radiator fan control

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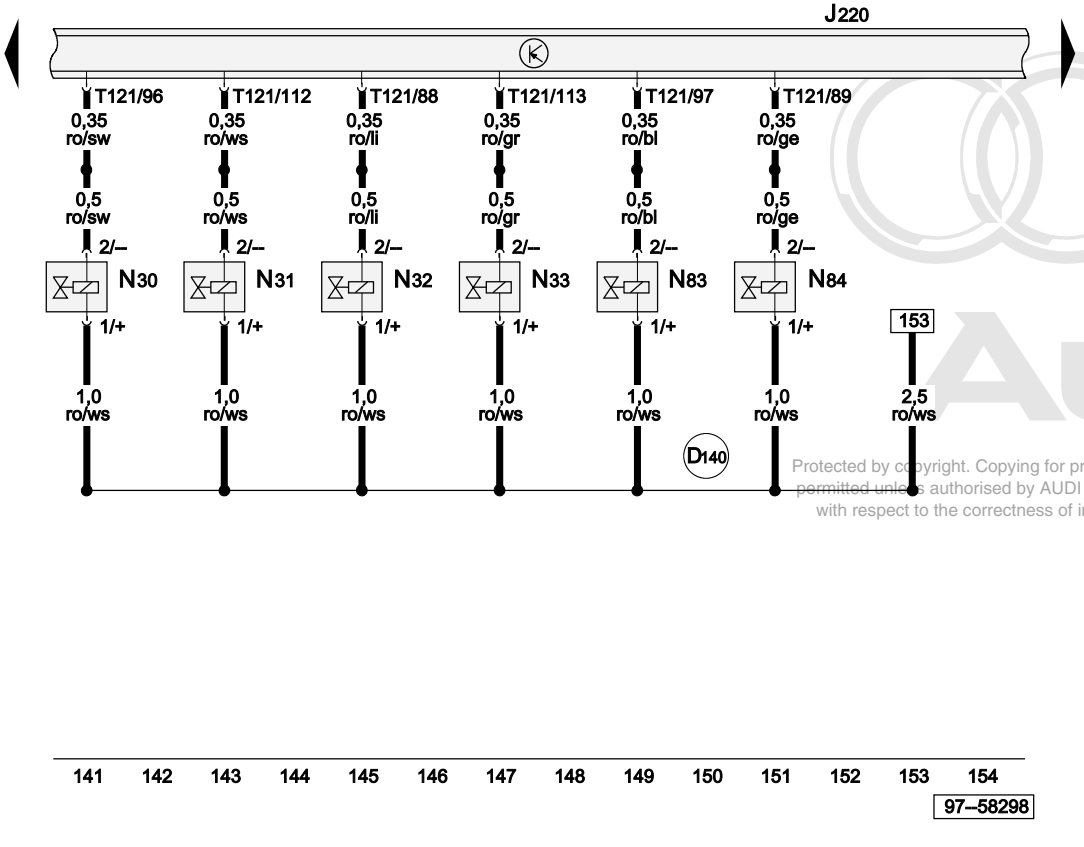
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Secondary air pump, secondary air inlet valve, suction jet pump valve, exhaust flap valve

J220	Motronic control unit
J299	Secondary air pump relay
N112	Secondary air inlet valve
N220	Exhaust flap valve
N401	Suction jet pump valve
SB10	Fuse 10 on fuse holder
SB51	Fuse 51 on fuse holder
T10m	10-pin connector, black, near relay carrier electronics box
T11a	11-pin connector, red, in plenum chamber
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
V101	Secondary air pump motor
655	Earth point, on left headlight
D109	Connection 7, in engine compartment wiring harness
*	No longer fitted, phased-in modification

Audi



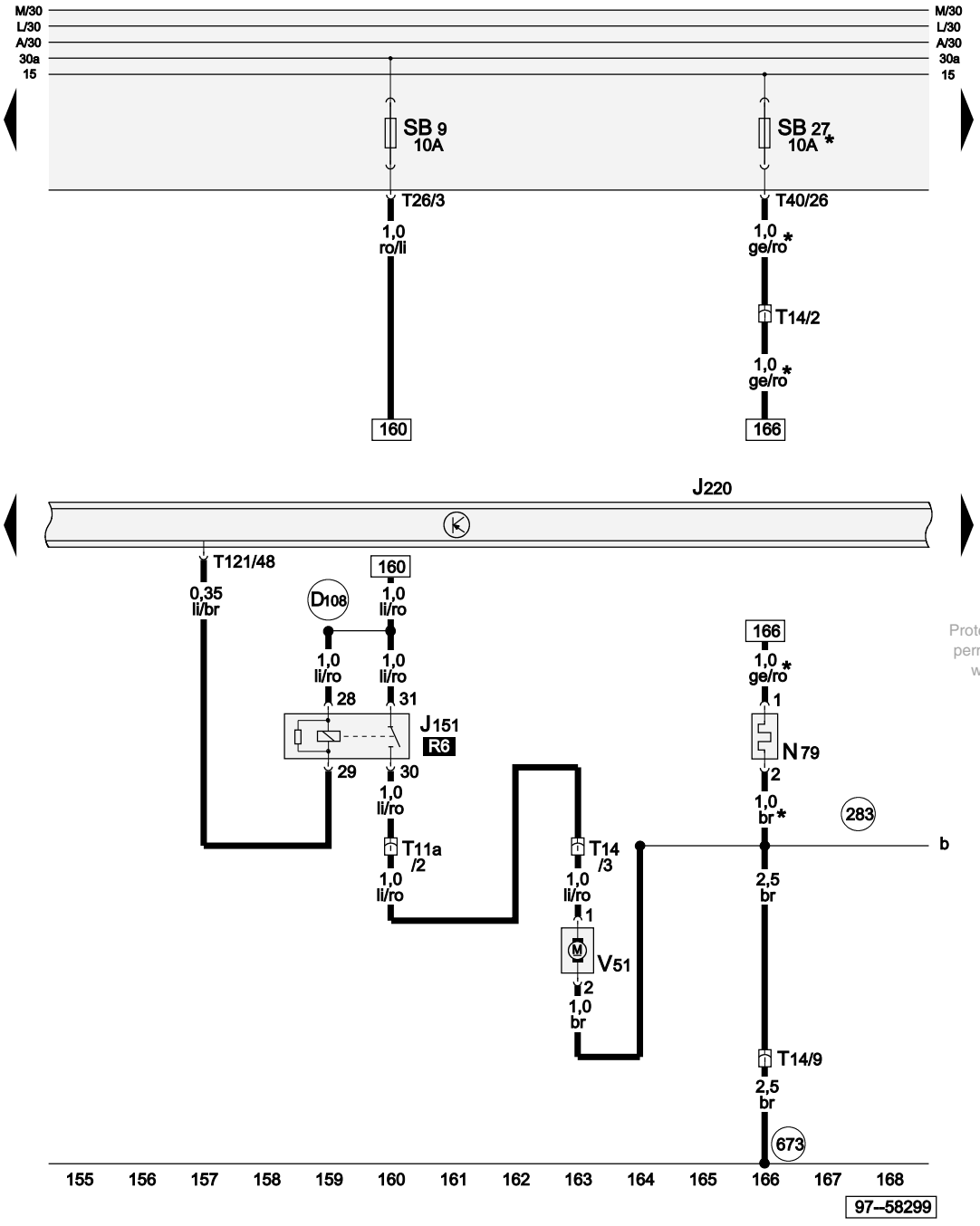


Injectors

J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
N83	Injector, cylinder 5
N84	Injector, cylinder 6
SB29	Fuse 29 on fuse holder
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
D140	Connection (injectors), in engine wiring harness

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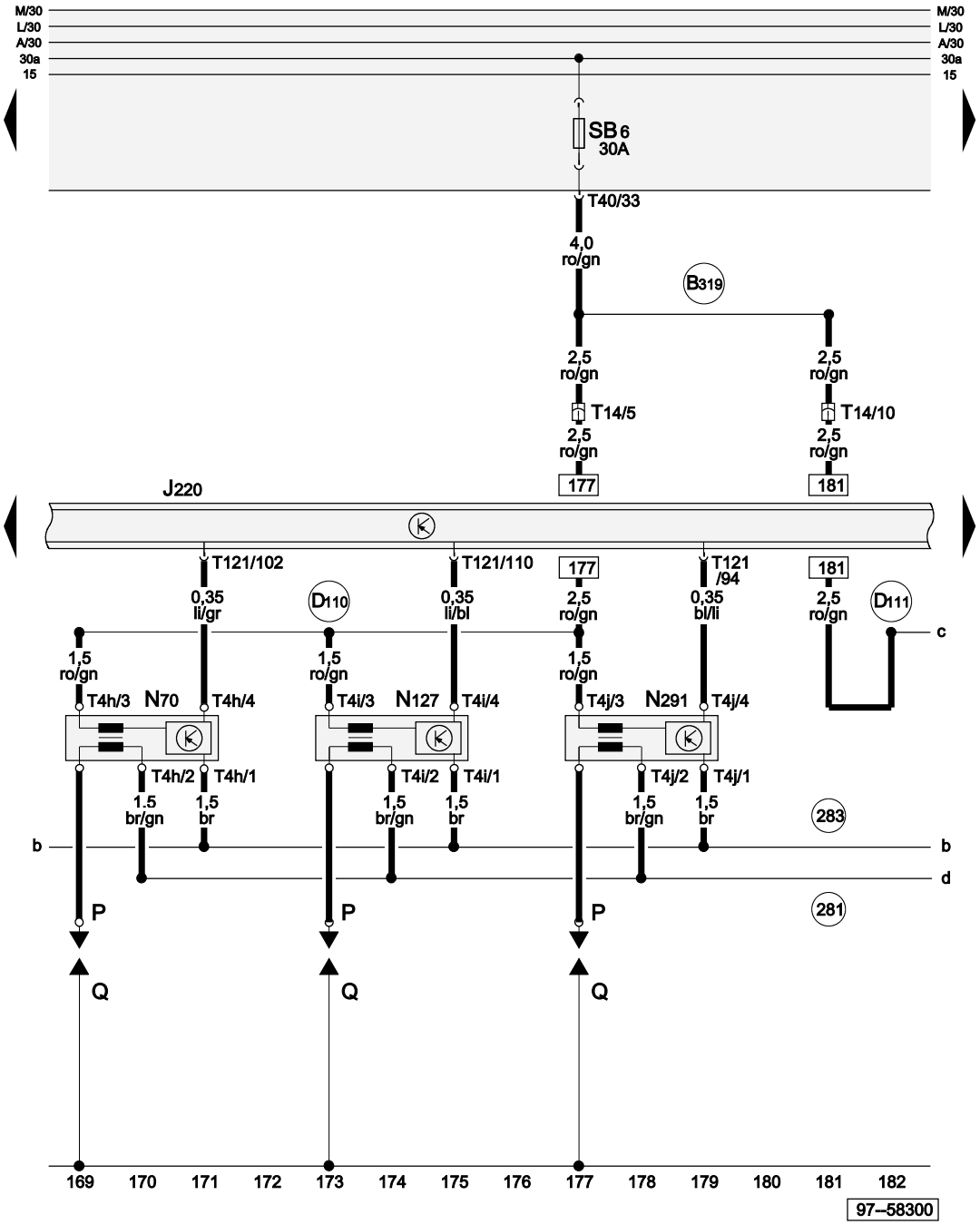


Continued coolant circulation relay, heater element (crankcase breather)

J151	Continued coolant circulation relay
J220	Motronic control unit
N79	Heater element for crankcase breather
SB9	Fuse 9 on fuse holder
SB27	Fuse 27 on fuse holder
T11a	11-pin connector, red, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T26	26-pin connector, brown, on electronics box in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
V51	Continued coolant circulation pump
283	Earth connection 2, in engine wiring harness
673	Earth point 3, on front of left longitudinal member
D108	Connection 6, in engine compartment wiring harness
*	with heater element

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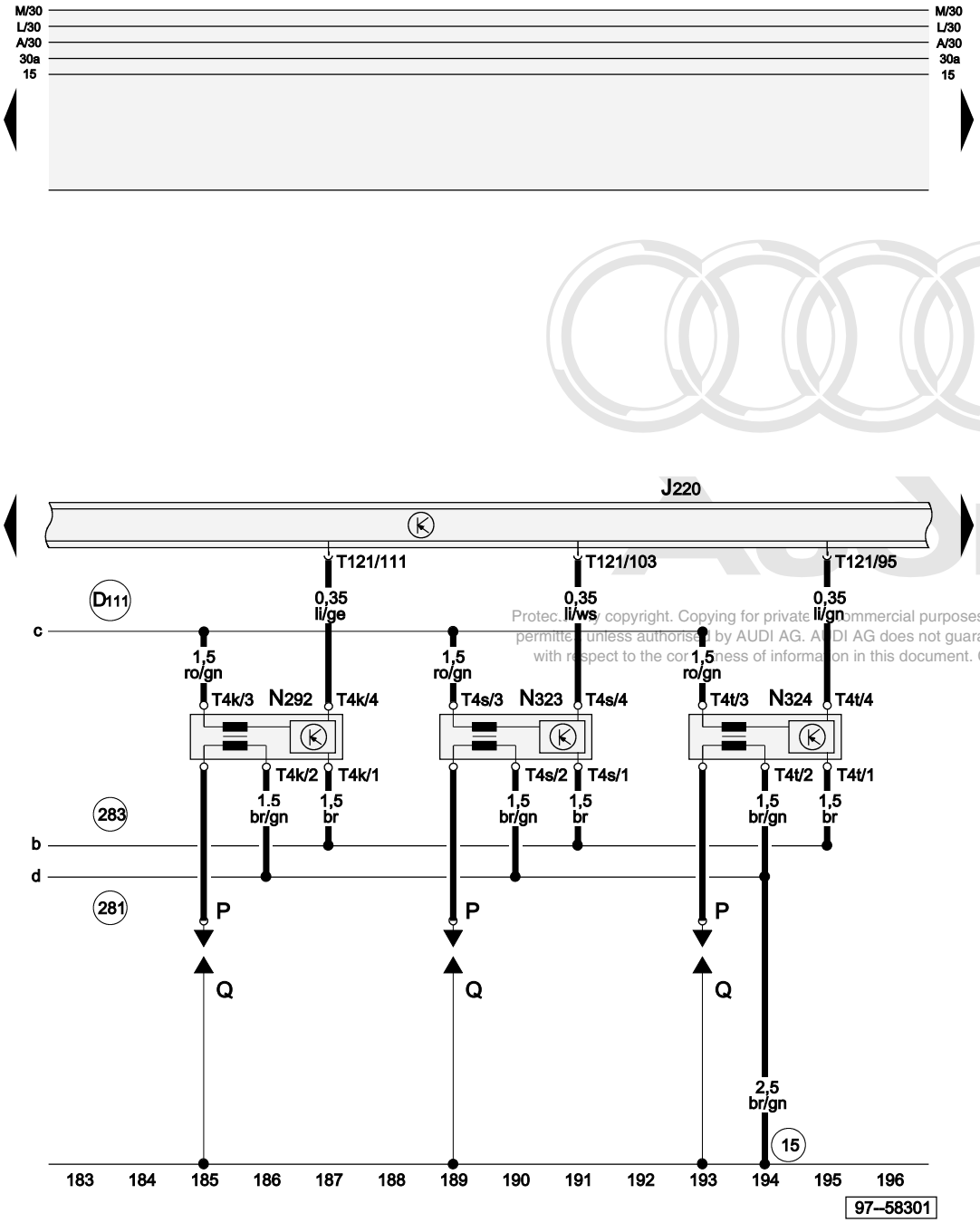


Ignition coils 1 to 3 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
P	Spark plug connector
Q	Spark plugs
SB6	Fuse 6 on fuse holder
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T4j	4-pin connector, black, on ignition coil 3 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
B319	Positive connection 5 (30a), in main wiring harness
D110	Connection 8, in engine compartment wiring harness
D111	Connection 9, in engine compartment wiring harness

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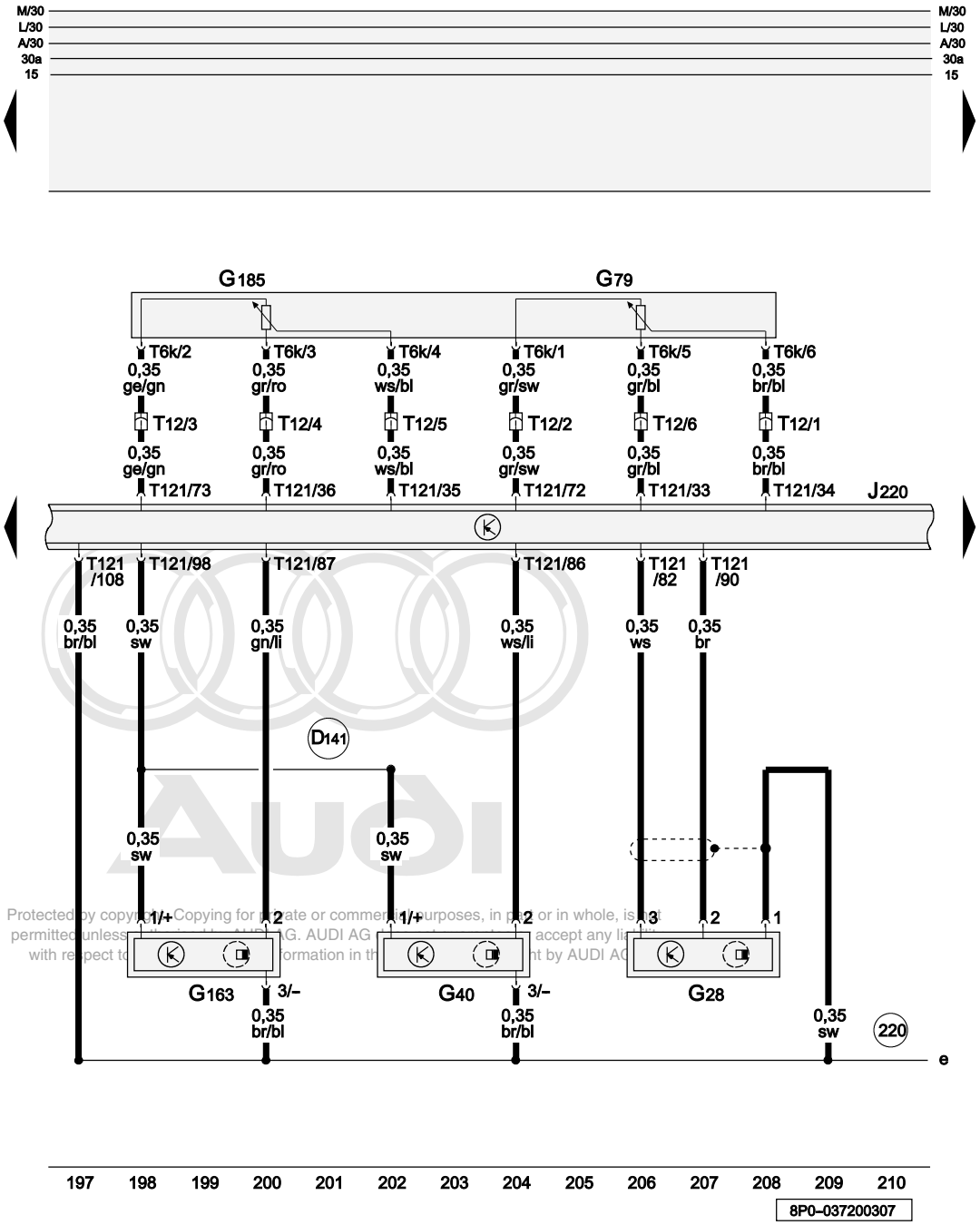


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Ignition coils 3 to 6 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N292	Ignition coil 4 with output stage
N323	Ignition coil -5- with output stage
N324	Ignition coil -6- with output stage
P	Spark plug connector
Q	Spark plugs
T4k	4-pin connector, black, on ignition coil 4 with output stage
T4s	4-pin connector, black, on ignition coil 5 with output stage
T4t	4-pin connector, black, on ignition coil 6 with output stage
T121	121-pin connector, black, on engine control unit
15	Earth point, on cylinder head
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
D111	Connection 9, in engine compartment wiring harness

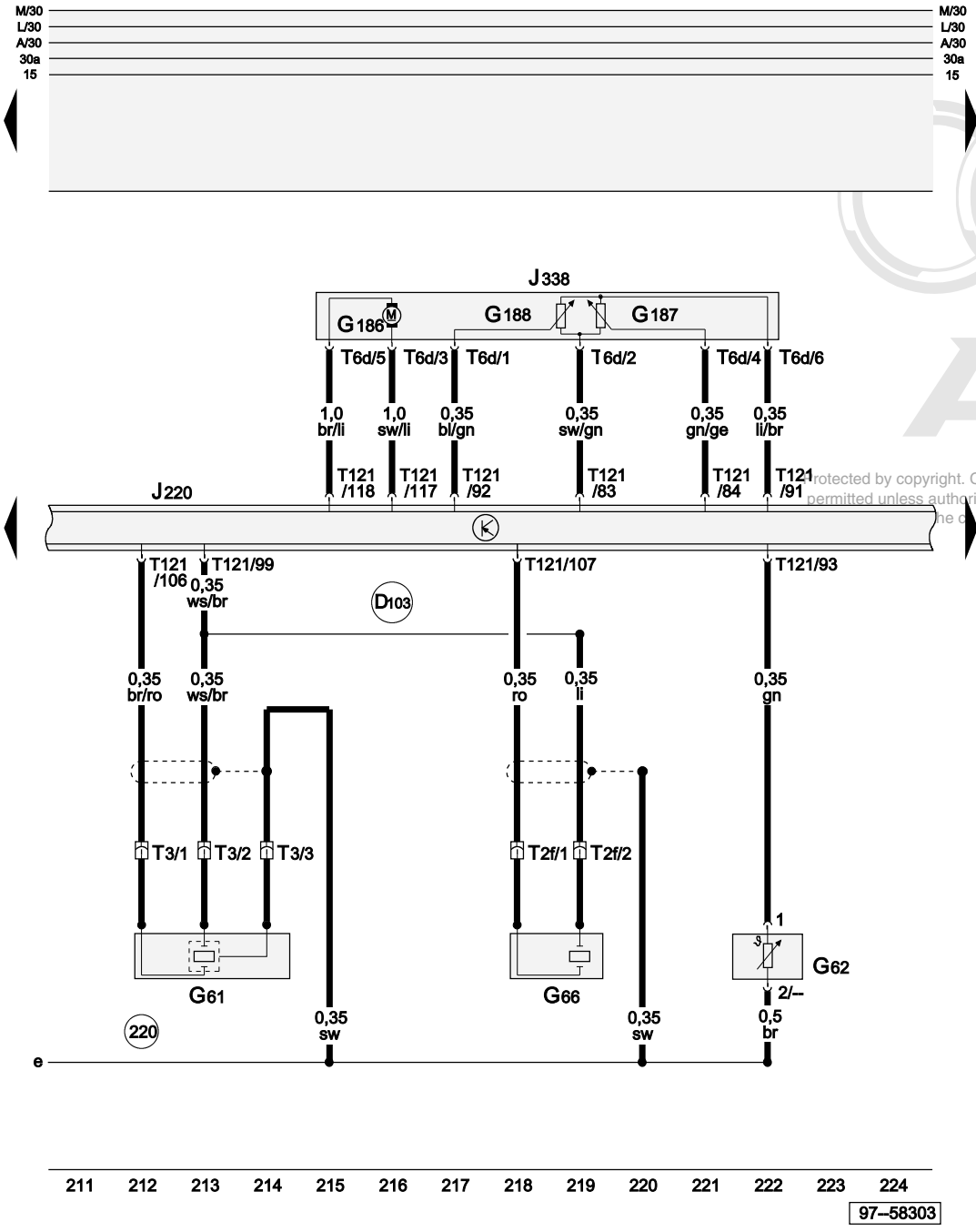


Hall sender, accelerator position sender

G28	Engine speed sender
G40	Hall sender
G79	Accelerator position sender
G163	Hall sender 2
G185	Accelerator position sender 2
J220	Motronic control unit
T6k	6-pin connector, black, near accelerator position sender
T12	12-pin connector, green, in plenum chamber
T121	121-pin connector, black, on engine control unit
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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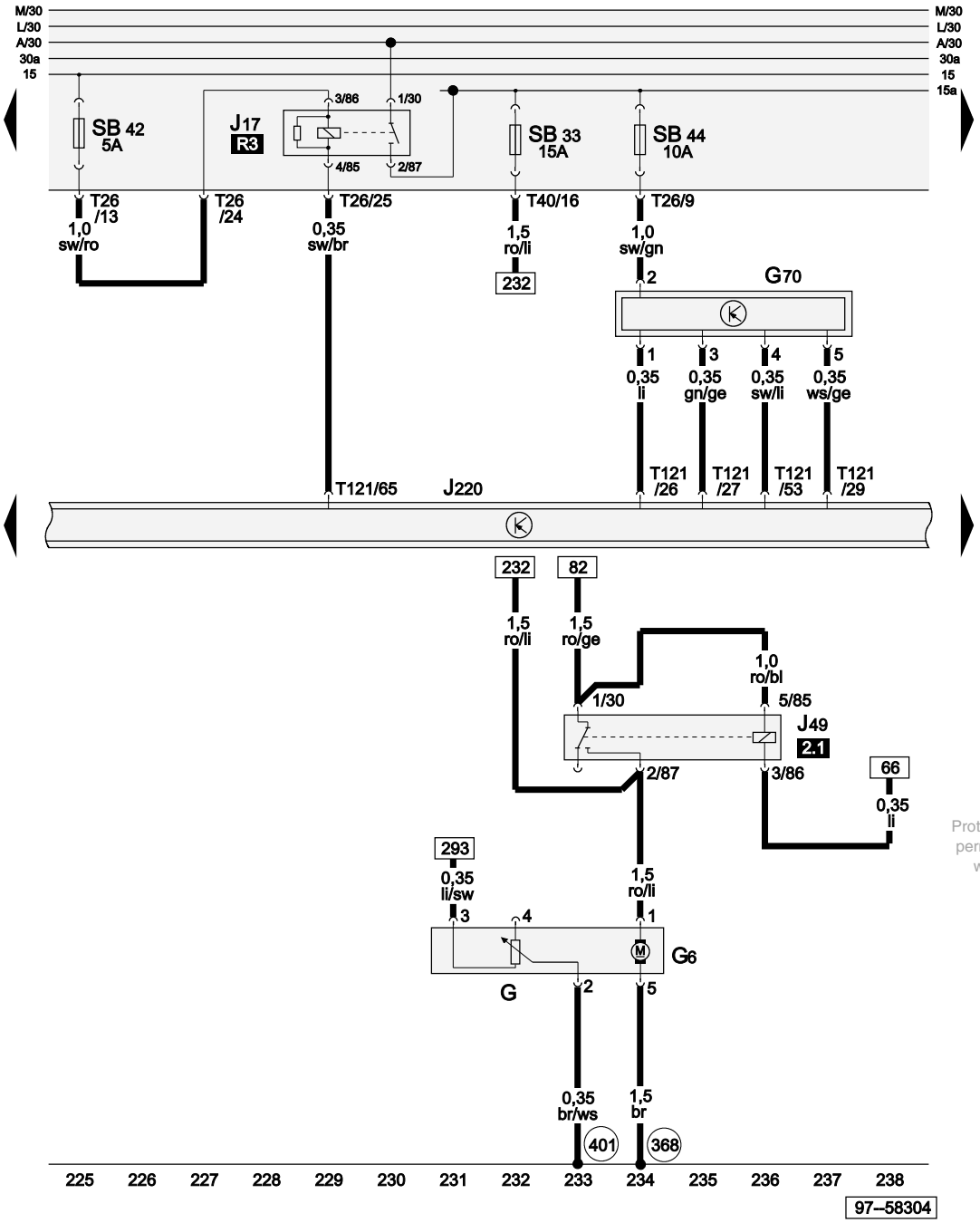


Throttle valve module, coolant temperature sender, knock sensors

G61	Knock sensor 1
G62	Coolant temperature sender
G66	Knock sensor 2
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 (electric power control)
G188	Throttle valve drive angle sender 2 (electric power control)
J220	Motronic control unit
J338	Throttle valve module
T2f	2-pin connector, black, in left engine compartment (knock sensor 2)
T3	3-pin connector, red, in left engine compartment (knock sensor)
T6d	6-pin connector, black, near throttle valve module
T121	121-pin connector, black, on engine control unit
220	Earth connection (sender earth), in engine wiring harness
D103	Connection 3, in engine compartment wiring harness

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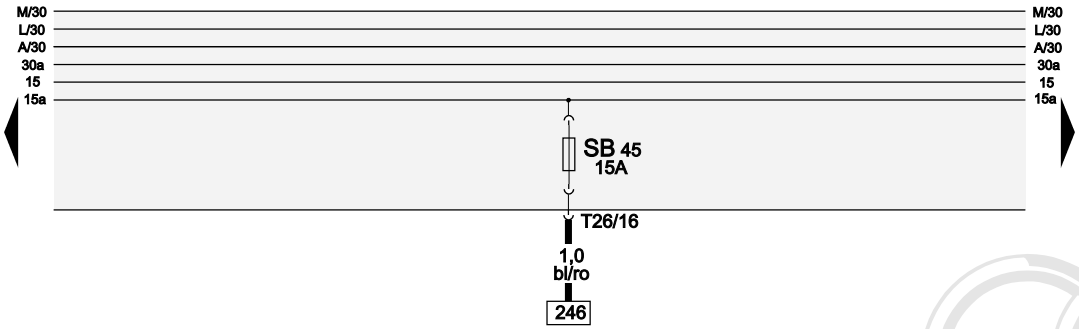


Fuel pump, fuel gauge sender, air mass meter

G	Fuel gauge sender
G6	Fuel pump (pre-supply pump)
G70	Air mass meter
J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J220	Motronic control unit
SB33	Fuse 33 on fuse holder
SB42	Fuse 42 on fuse holder
SB44	Fuse 44 on fuse holder
T26	26-pin connector, brown, on electronics box in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness

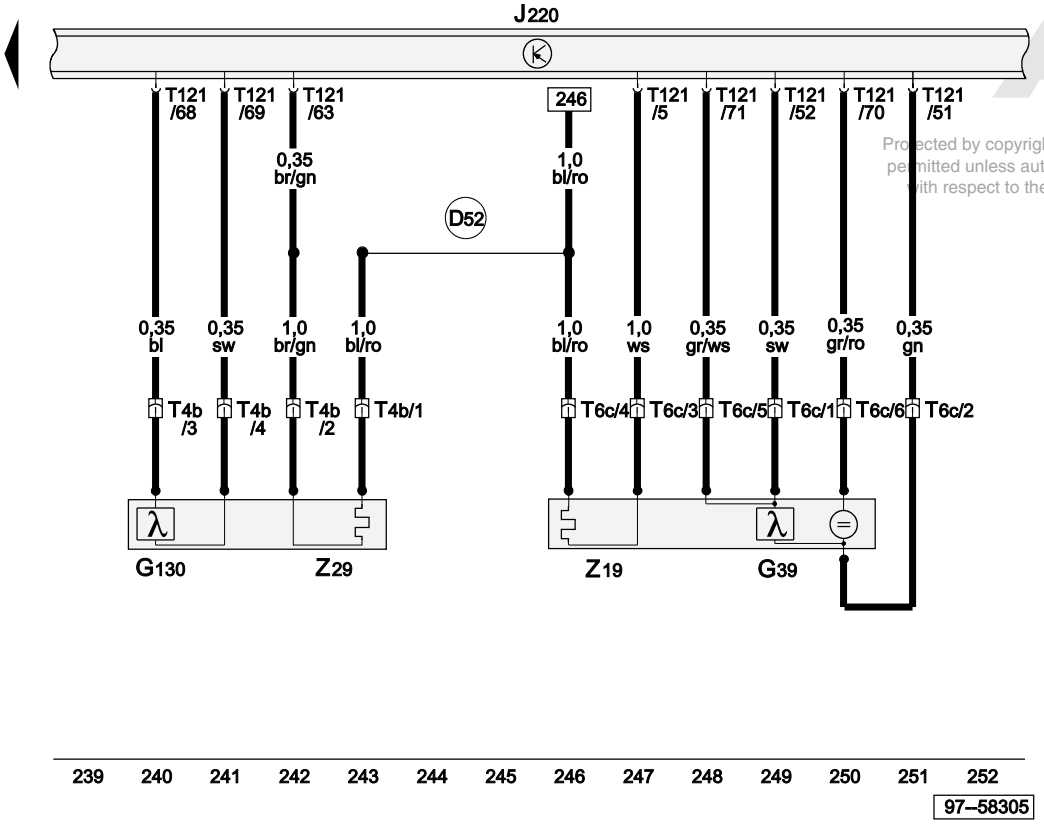
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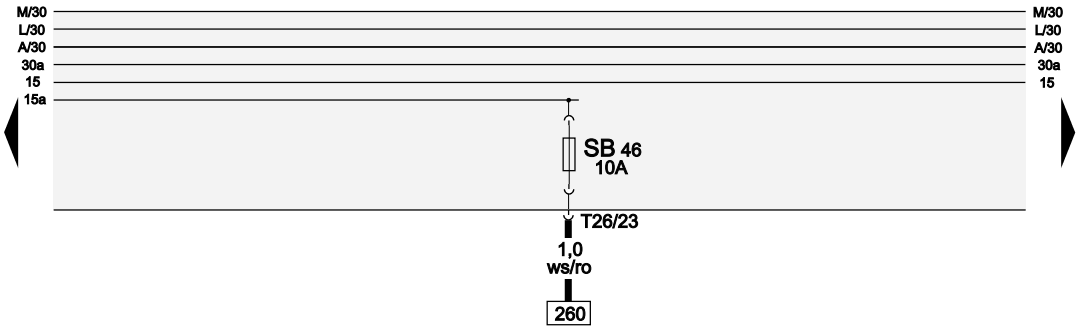
Lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J220	Motronic control unit
SB45	Fuse 45 on fuse holder
T4b	4-pin connector, black, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T26	26-pin connector, brown, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D52	Positive connection (15a), in engine compartment wiring harness



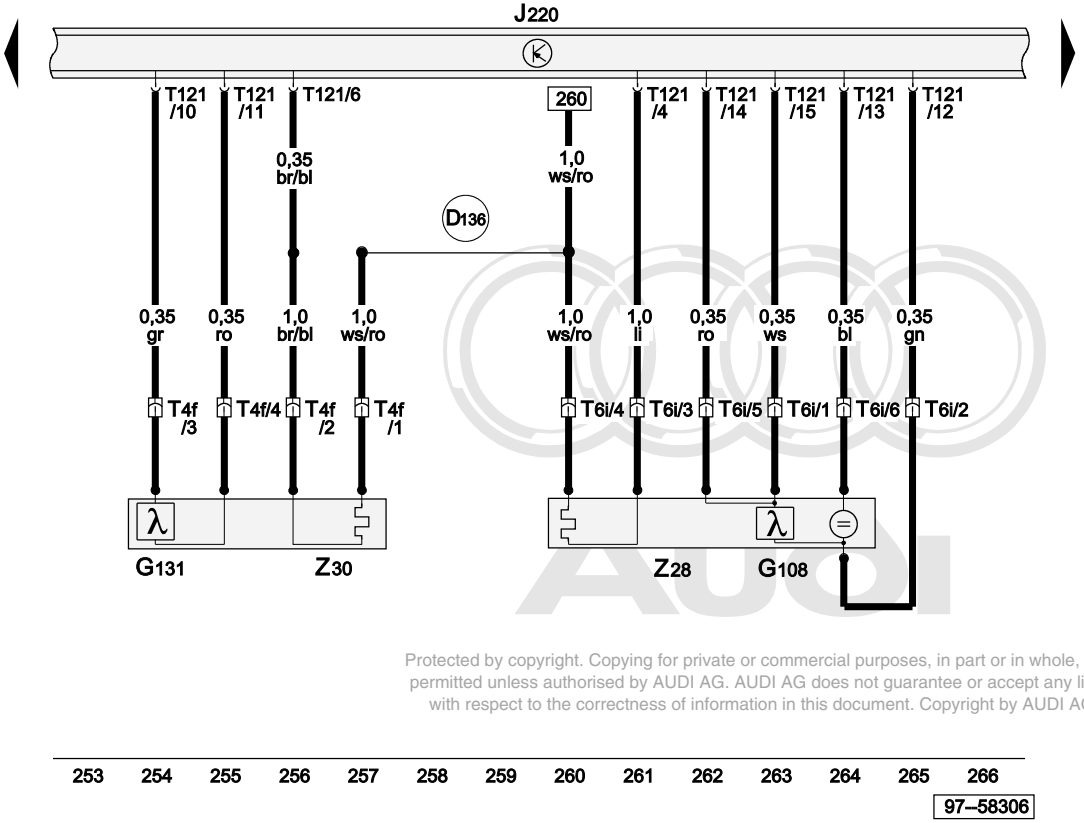
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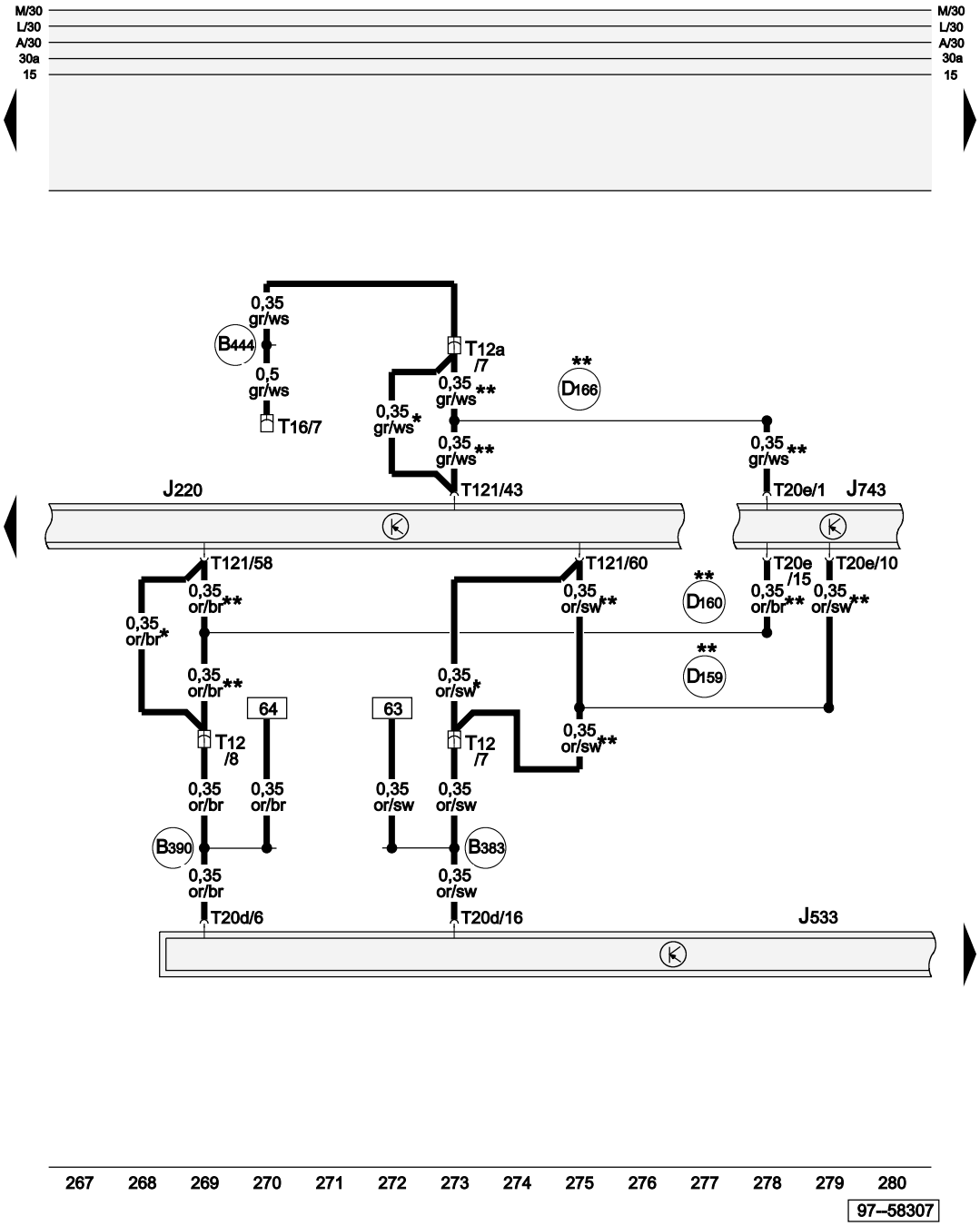
Lambda probe 2, lambda probe 2 after catalytic converter

G108	Lambda probe 2
G131	Lambda probe 2 after catalytic converter
J220	Motronic control unit
SB46	Fuse 46 on fuse holder
T4f	4-pin connector, brown, on lambda probe 2 after catalytic converter
T6i	6-pin connector, brown, on lambda probe 2 upstream of catalytic converter
T26	26-pin connector, brown, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
Z28	Lambda probe 2 heater
Z30	Lambda probe 2 heater after catalytic converter
D136	Positive connection 2 (15a), in engine compartment wiring harness



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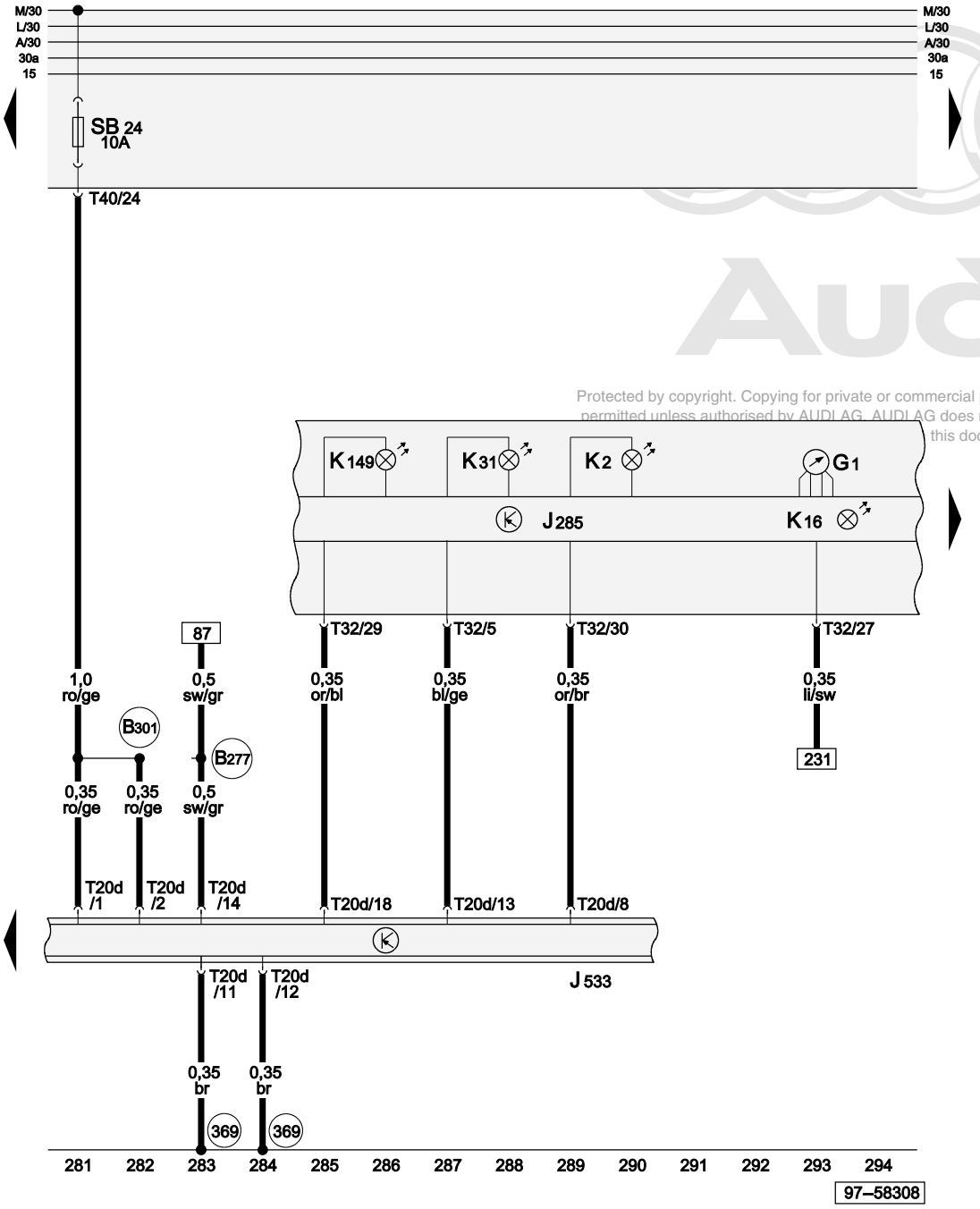


Drive train CAN bus, K-diagnosis wiring

J220	Motronic control unit
J533	Data bus diagnostic interface
J743	Mechatronics for direct shift gearbox
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
D159	Connection (high bus), in engine compartment wiring harness
D160	Connection (low bus), in engine compartment wiring harness
D166	Connection (K-diagnosis wiring), in engine compartment wiring harness
*	for models with manual gearbox only
**	for models with direct shift gearbox (02E) only

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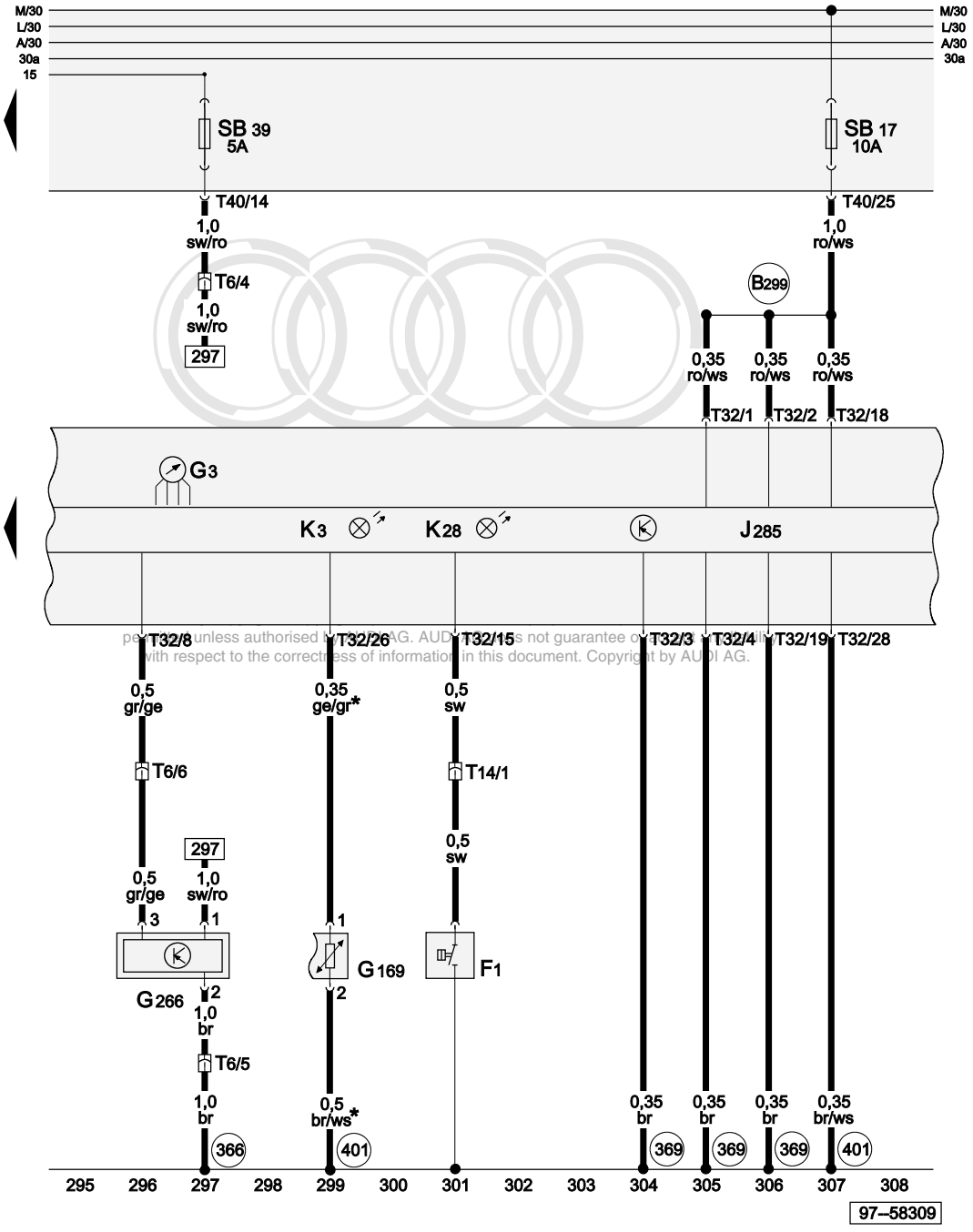


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Data bus diagnostic interface, control unit with display in dash panel insert

G1	Fuel gauge
J285	Display control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K16	Reserve fuel warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B301	Positive connection -5- (30), in main wiring harness

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Oil pressure switch, control unit with display in dash panel insert

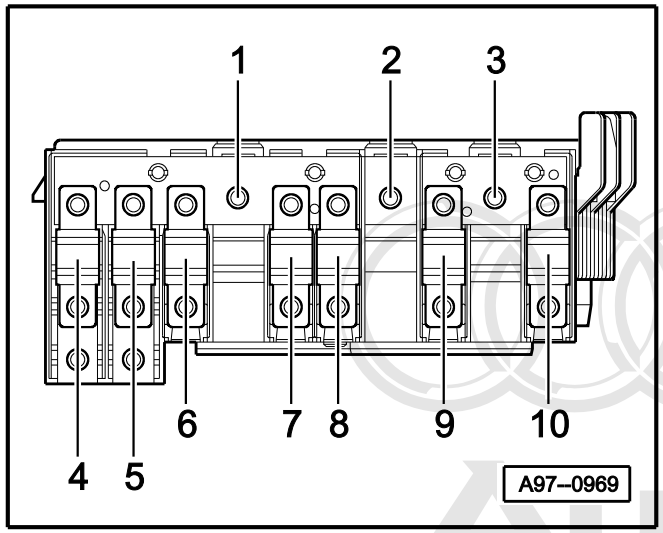
F1	Oil pressure switch
G3	Coolant temperature gauge
G169	Fuel gauge sender 2
G266	Oil level and oil temperature sender
J285	Display control unit in dash panel insert
K3	Oil pressure warning lamp
K28	Coolant temperature/coolant shortage warning lamp
SB17	Fuse 17 on fuse holder
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection -3- (30), in main wiring harness
*	for models with four-wheel drive only

Radiator fan control 520 W (with and without air conditioning system)

⇒ **3.2 l Fuel injection engine (184 kW - Motronic - 6 cylinder), engine code BDB**

from model year 2004

Main fuse holder, electronics box



- On electronics box, in engine compartment, front left

Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

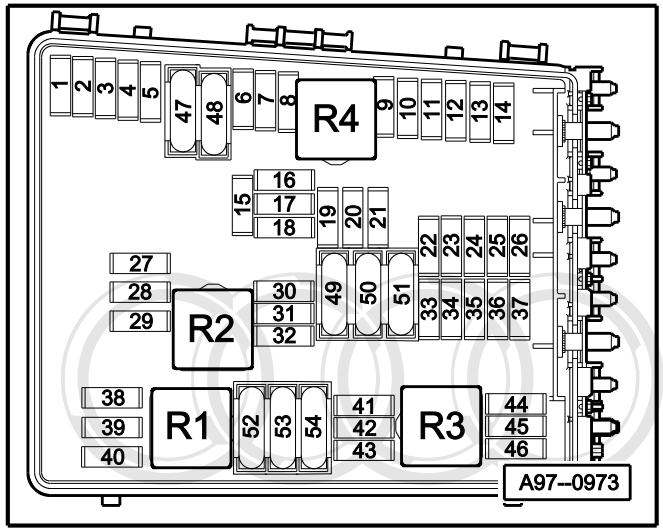
Fuse locations
6 - Fuse 3 on fuse holder/battery (SA3)

Note:

- *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

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Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

30 A - green

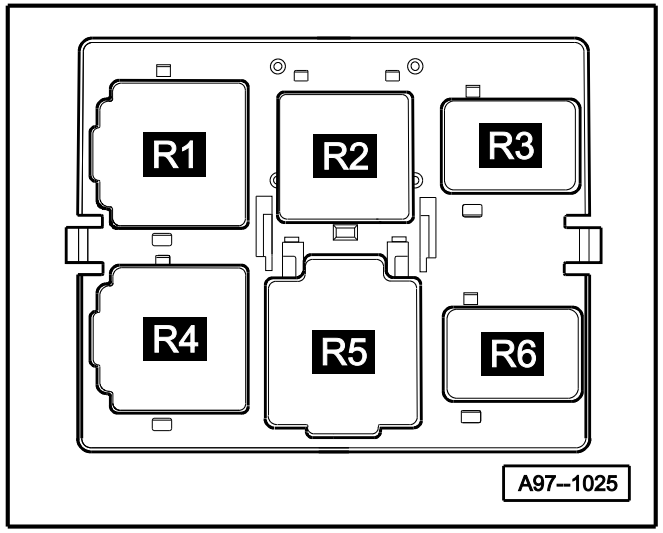
15 A - blue

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Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

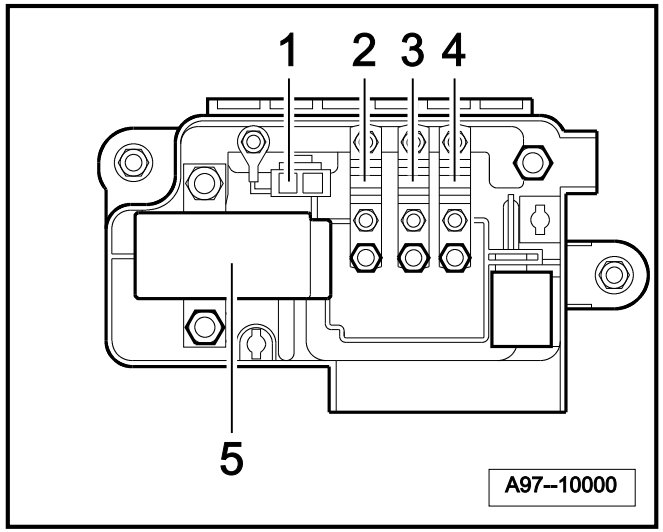
6-point relay carrier



- Under electronics box in engine compartment, left

Position of relays
R6 - Continued coolant circulation relay - J151

Main fuse box



- In luggage compartment, rear right

Fuse locations

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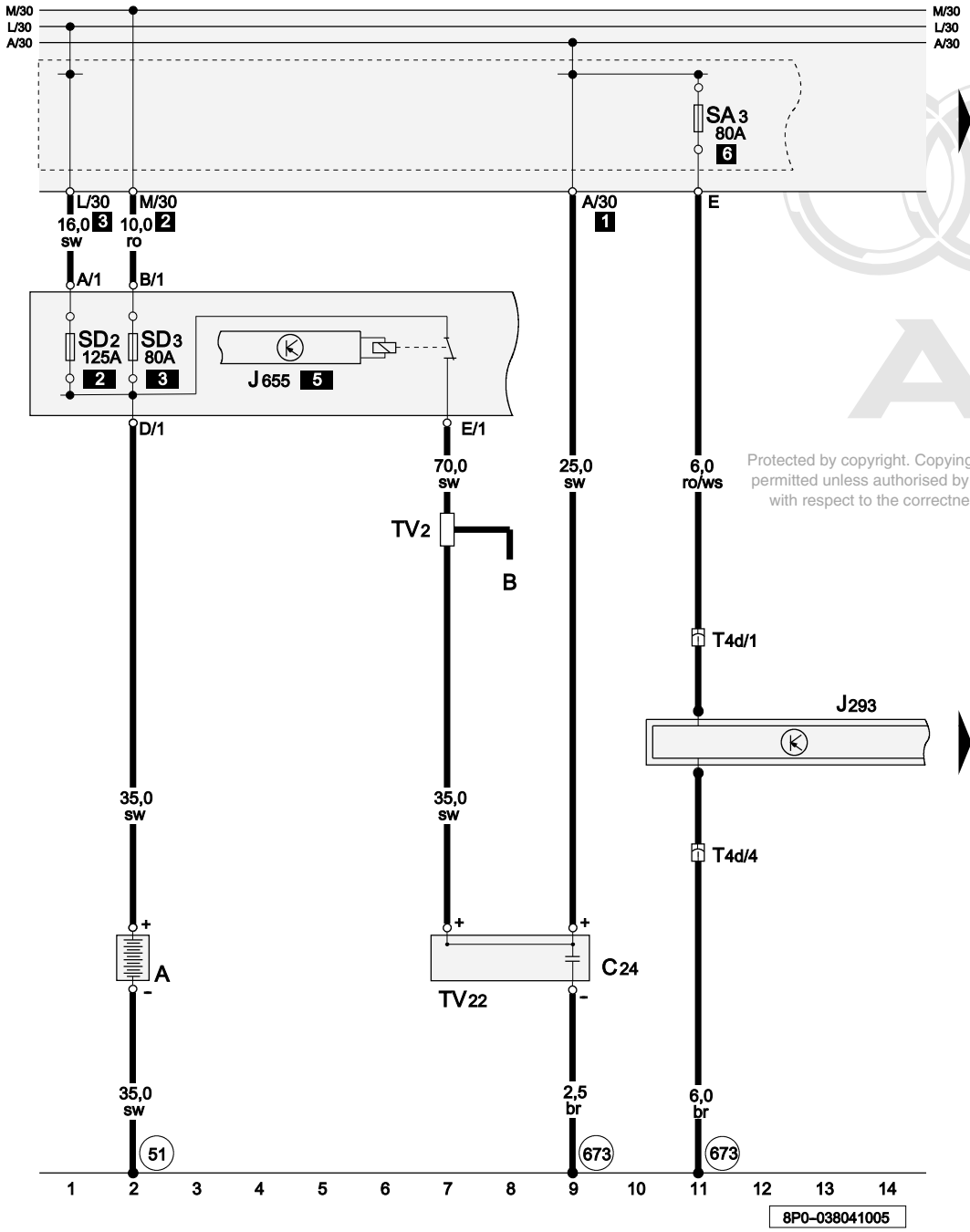
2 - Fuse -2- on fuse holder - SD2
3 - Fuse -3- on fuse holder - SD3
Position of relays

5 - Battery cut-off relay - J655

Note:

- *The fuses in the main fuse box are designated as SD in the Current Flow Diagram.*

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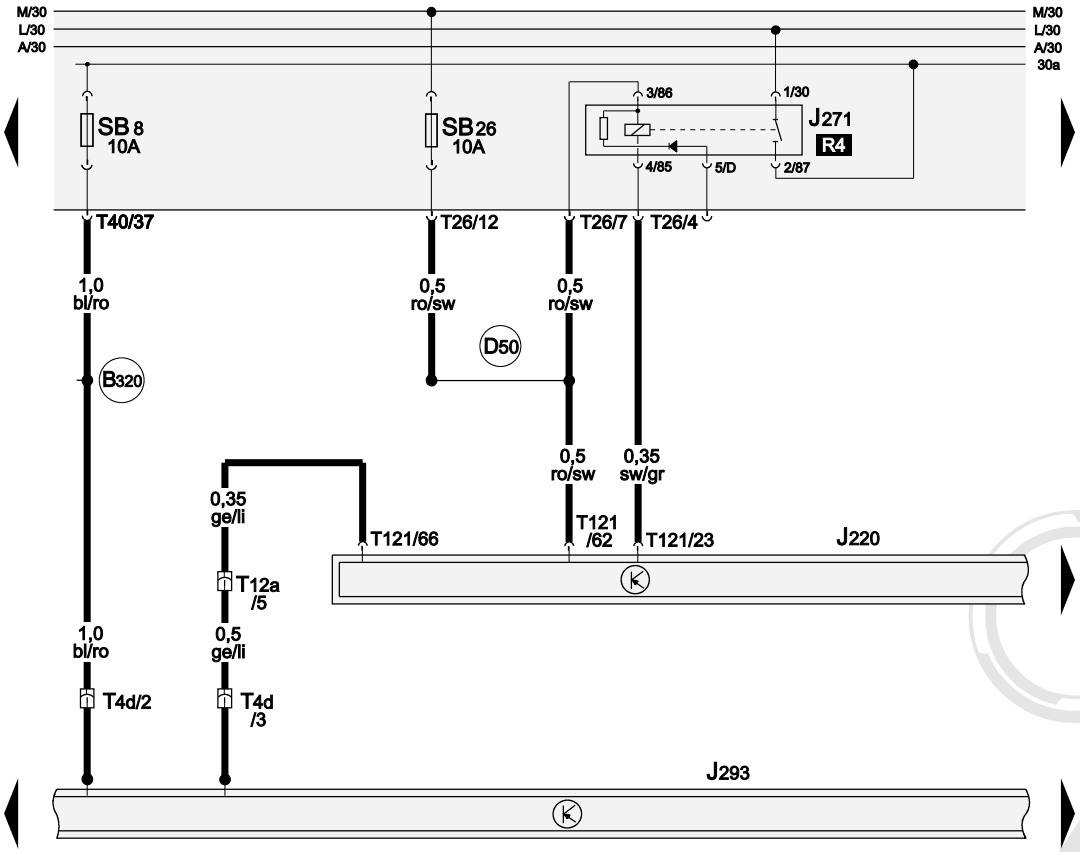


Battery, fuses on fuse holder

A	Battery
B	Starter
C24	Suppression filter
J293	Radiator fan control unit
J655	Battery cut-off relay
SA3	Fuse 3 on fuse holder A
SD2	Fuse 2 on fuse holder D
SD3	Fuse 3 on fuse holder D
T4d	4-pin connector, black, on radiator fan (front end)
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
51	Earth point, on right in luggage compartment
673	Earth point 3, on front of left longitudinal member

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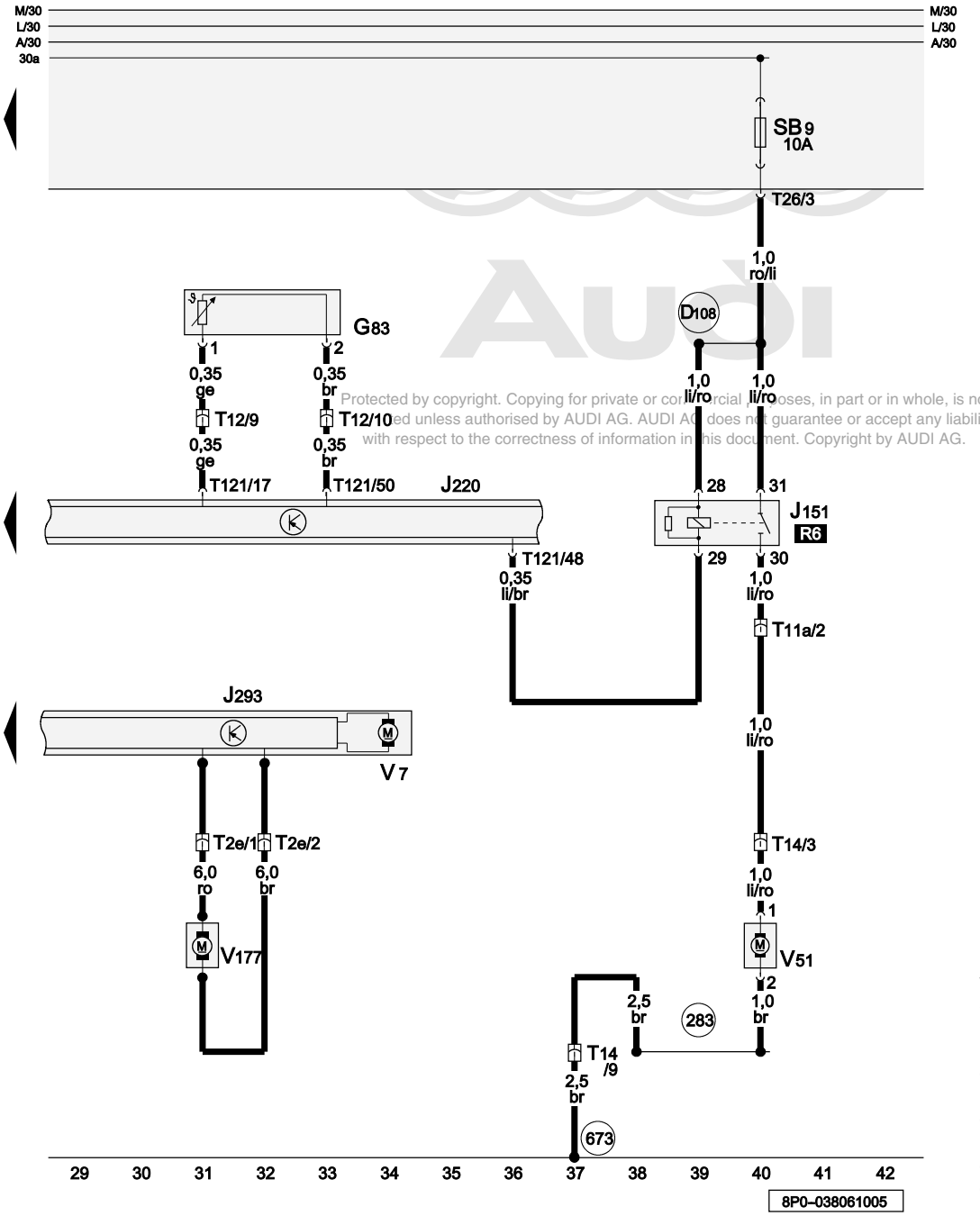


Radiator fan control unit, Motronic current supply relay

J220	Motronic control unit
J271	Motronic current supply relay
J293	Radiator fan control unit
SB8	Fuse 8 on fuse holder
SB26	Fuse 26 on fuse holder
T4d	4-pin connector, black, on radiator fan (front end)
T12a	12-pin connector, blue, in plenum chamber
T26	26-pin connector, brown on electronics box, in engine compartment (connector K)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
D50	Positive connection (30), in engine compartment wiring harness
B320	Positive connection -6- (30a), in main wiring harness

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Radiator fan, continued coolant circulation pump

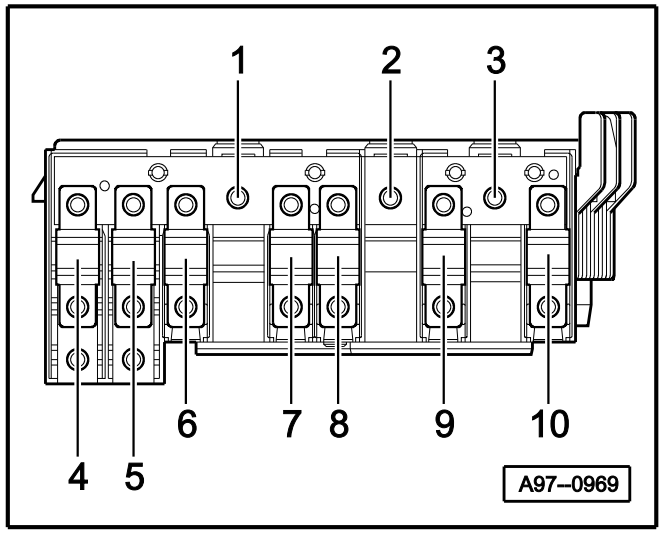
G83	Radiator outlet coolant temperature sender
J151	Continued coolant circulation relay
J220	Motronic control unit
J293	Radiator fan control unit
SB9	Fuse 9 on fuse holder B
T2e	2-pin connector, black, on radiator fan (front end)
T11a	11-pin connector, red, in plenum chamber
T12	12-pin connector, green, in plenum chamber
T14	14-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
V7	Radiator fan
V51	Continued coolant circulation pump
V177	Radiator fan 2
283	Earth connection 2, in engine harness
673	Earth point 3, on front of left longitudinal member
D108	Connection 6, in engine compartment wiring harness

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Radio and navigation system RNS-E without Bose sound system

from model year 2004

Main fuse holder, electronics box



♦ On electronics box, in engine compartment, front left

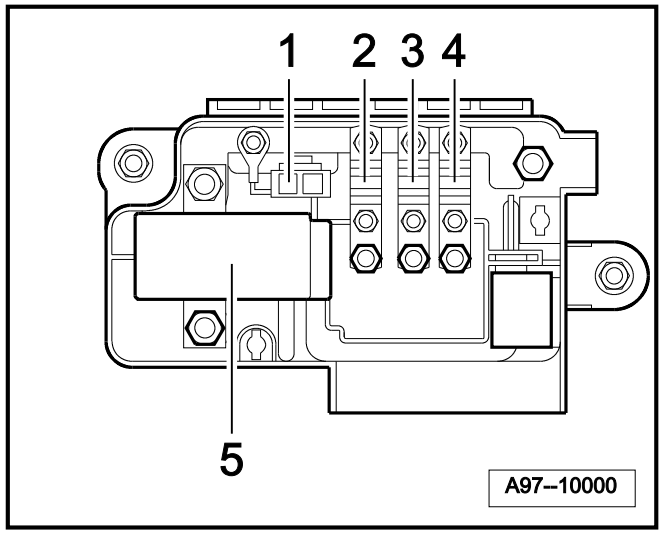
Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

Note:

♦ *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

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Main fuse box



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- In luggage compartment, rear right

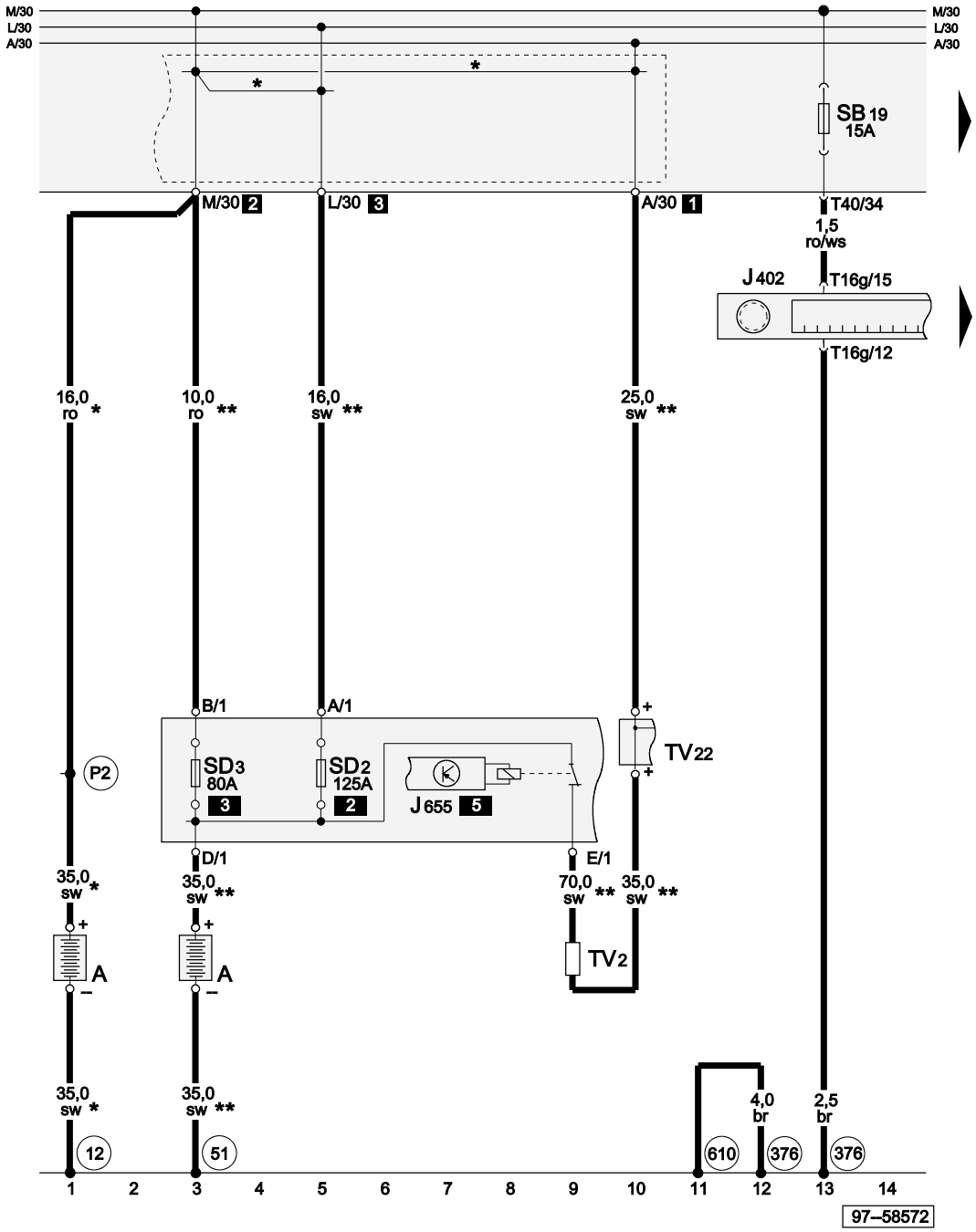
Fuse locations

2 - Fuse -2- on fuse holder - SD2
3 - Fuse -3- on fuse holder - SD3
Position of relays

5 - Battery cut-off relay - J655

Note:

- *The fuses in the main fuse box are designated as SD in the Current Flow Diagram.*

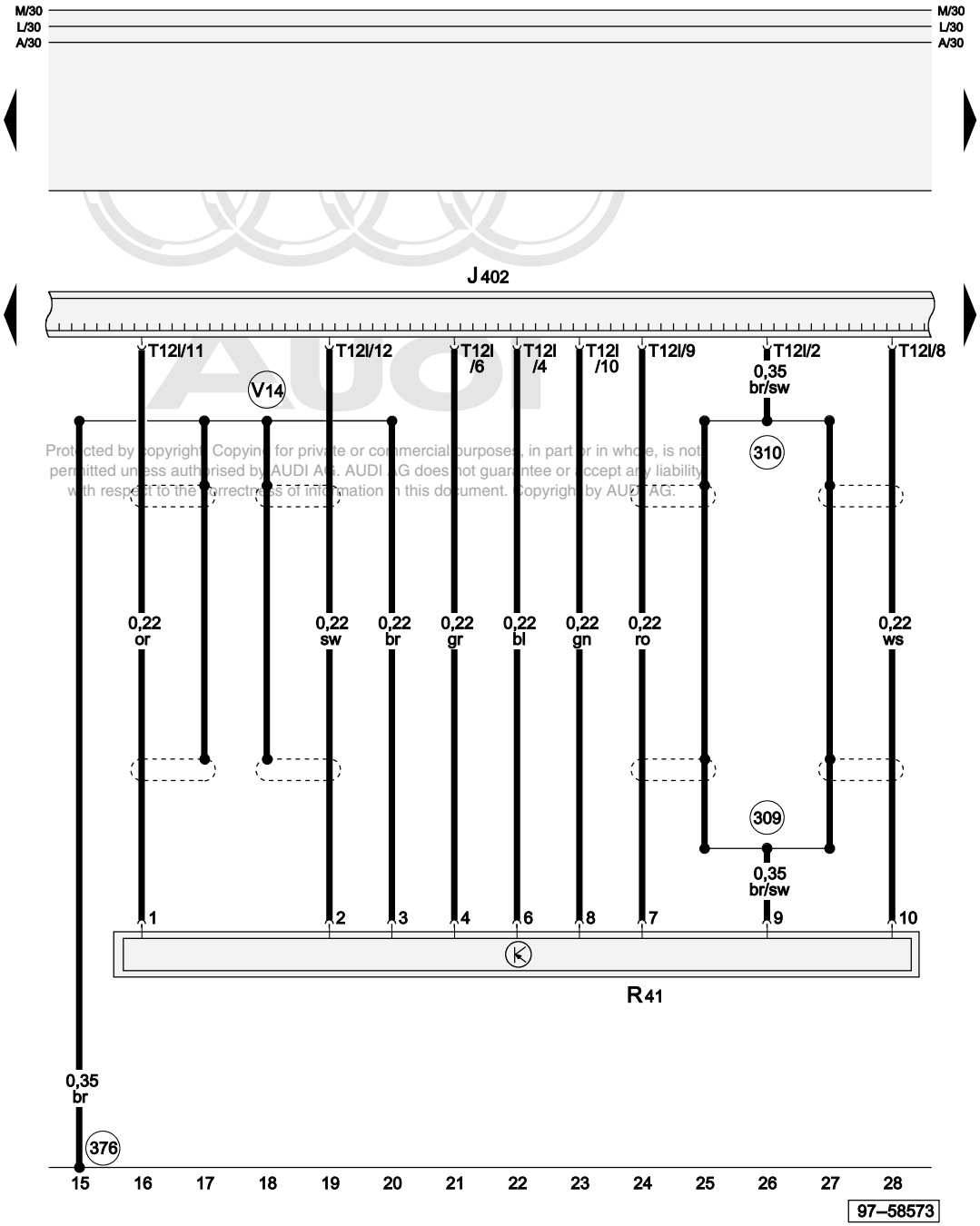


Battery, fuses on fuse holder

A	Battery
J402	Navigation operating electronics control unit
J655	Battery cut-off relay
SB19	Fuse 19 on fuse holder
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
T16g	16-pin connector, black (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
12	Earth point, on left in engine compartment
51	Earth point, on right in luggage compartment
376	Earth connection 11, in main wiring harness
610	Earth point (audio), front under centre console
P2	Positive connection (30), in battery wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

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CD changer

J402 Navigation operating electronics control unit
R41 CD changer
T12l 12-pin connector, blue (connector B)

309 Earth connection 1, screening, in CD changer wiring harness

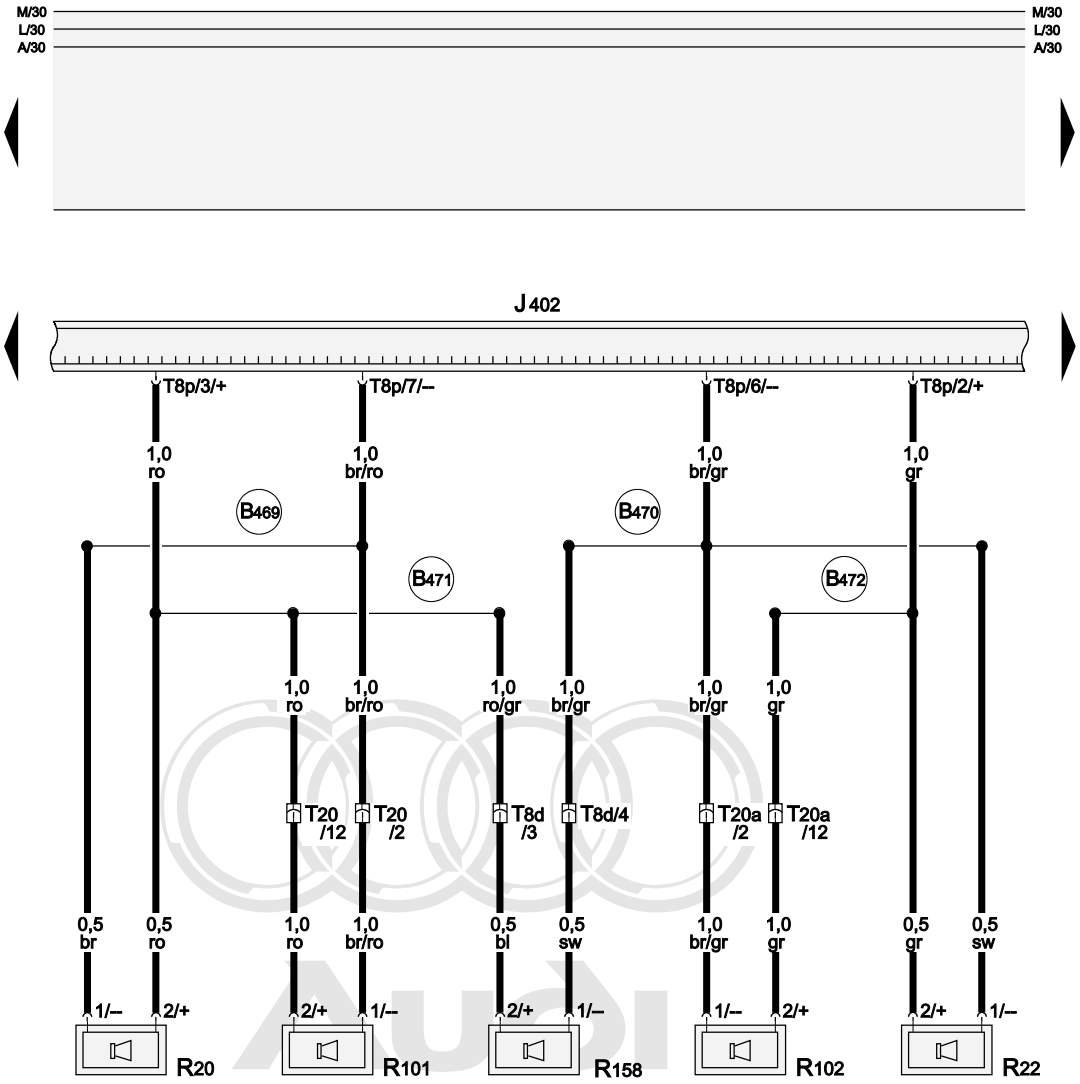
310 Earth connection 2, screening, in CD changer wiring harness

376 Earth connection 11, in main wiring harness

V14 Connection (screening), in CD changer wiring harness

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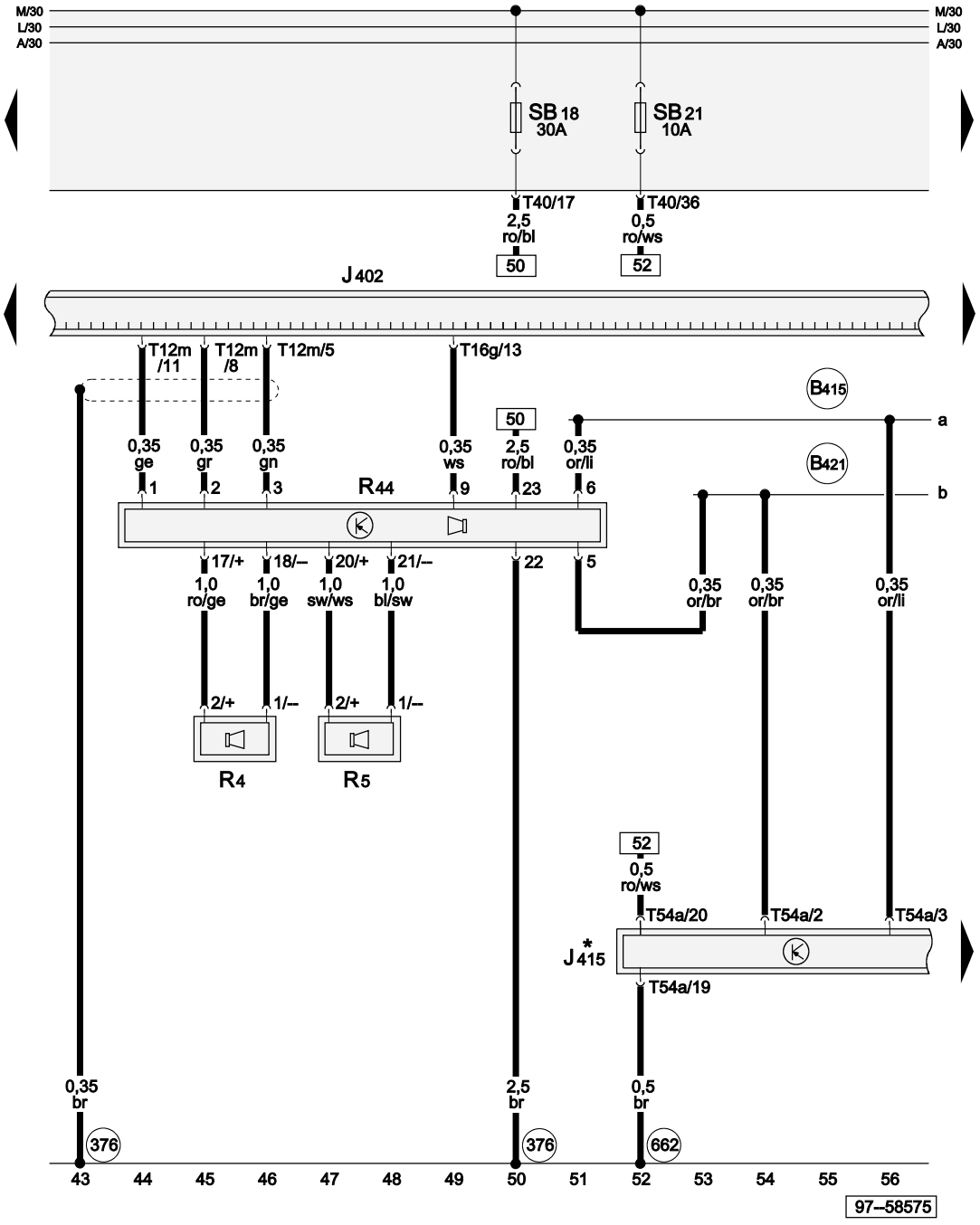


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Front loudspeaker

J402	Navigation operating electronics control unit
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8p	8-pin connector, brown (connector A)
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

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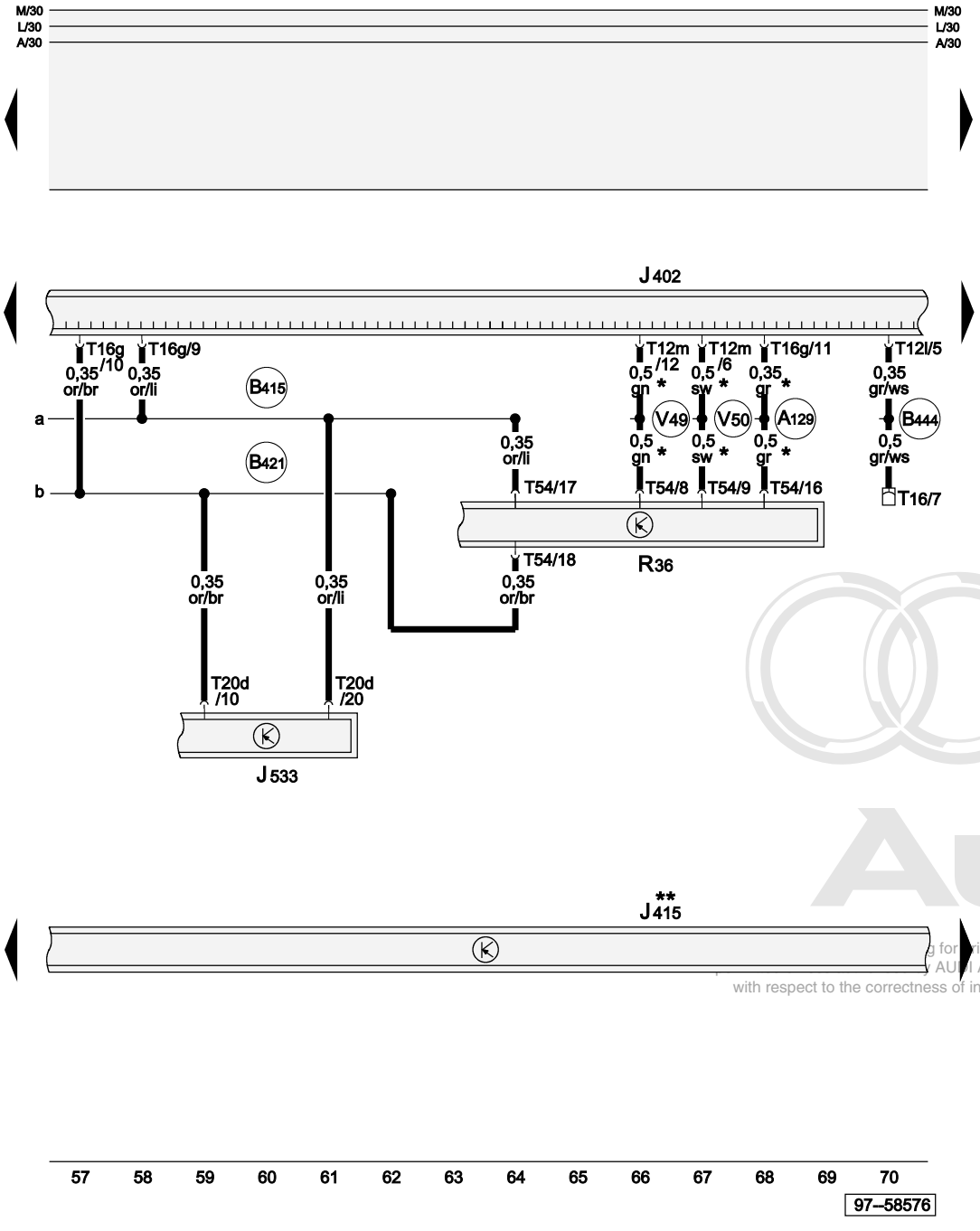


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Rear loudspeaker with amplifier, infotainment CAN bus

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder B
SB21	Fuse 21 on fuse holder B
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T54a	54-pin connector, black (connector A)
376	Earth connection 11, in main wiring harness
662	Earth point, rear left side panel
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	for models with TV tuner only

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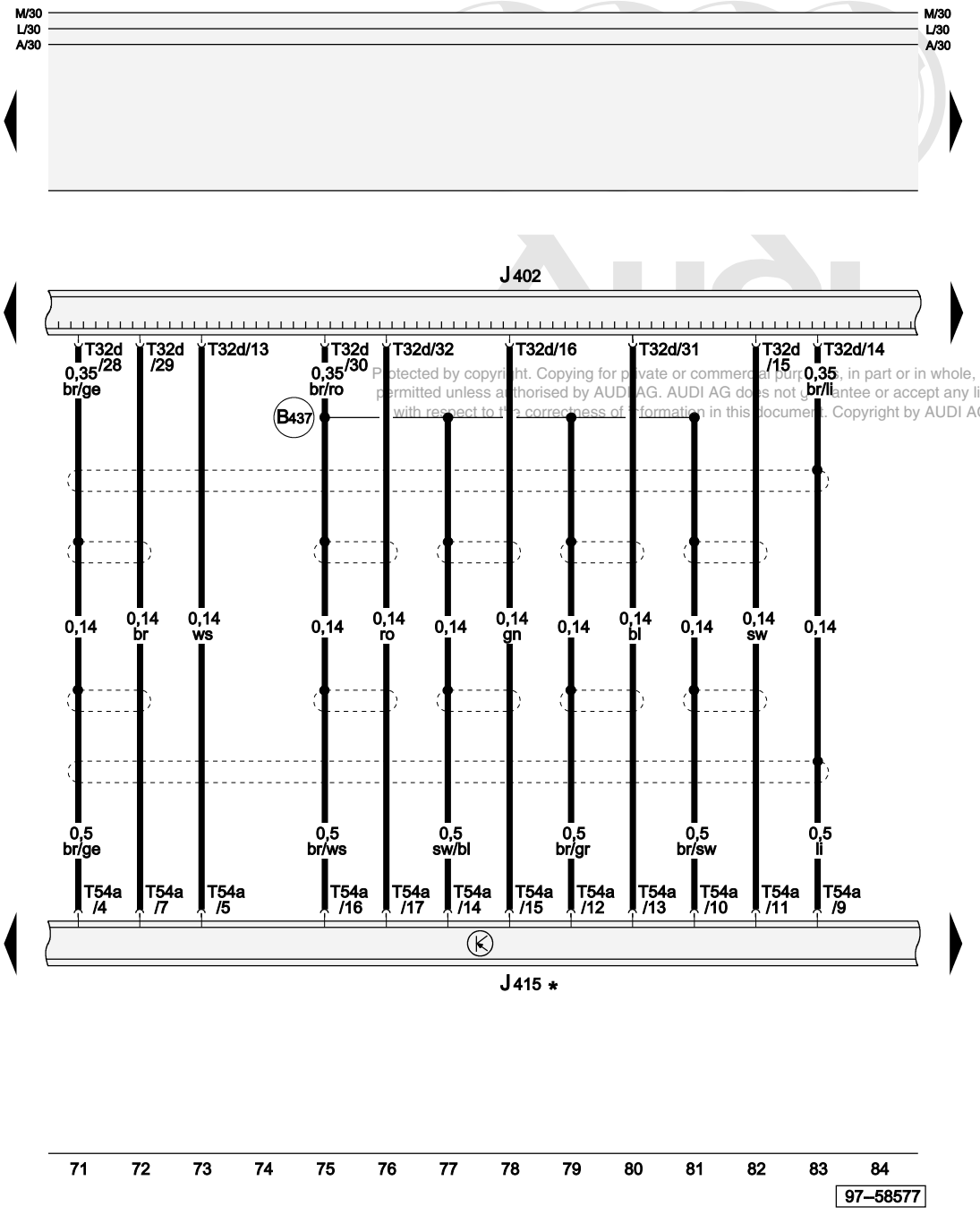


Muting, infotainment CAN bus

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
J533	Data bus diagnostic interface
R36	Telephone transmitter and receiver unit
T12l	12-pin connector, blue (connector B)
T12m	12-pin connector, black (connector C, connector locking green)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
V49	Connection (NF+), in communication wiring harness
V50	Connection (NF-), in communication wiring harness
*	for models with mobile telephone/ telephone only
**	for models with TV tuner only

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gn	=	green
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li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

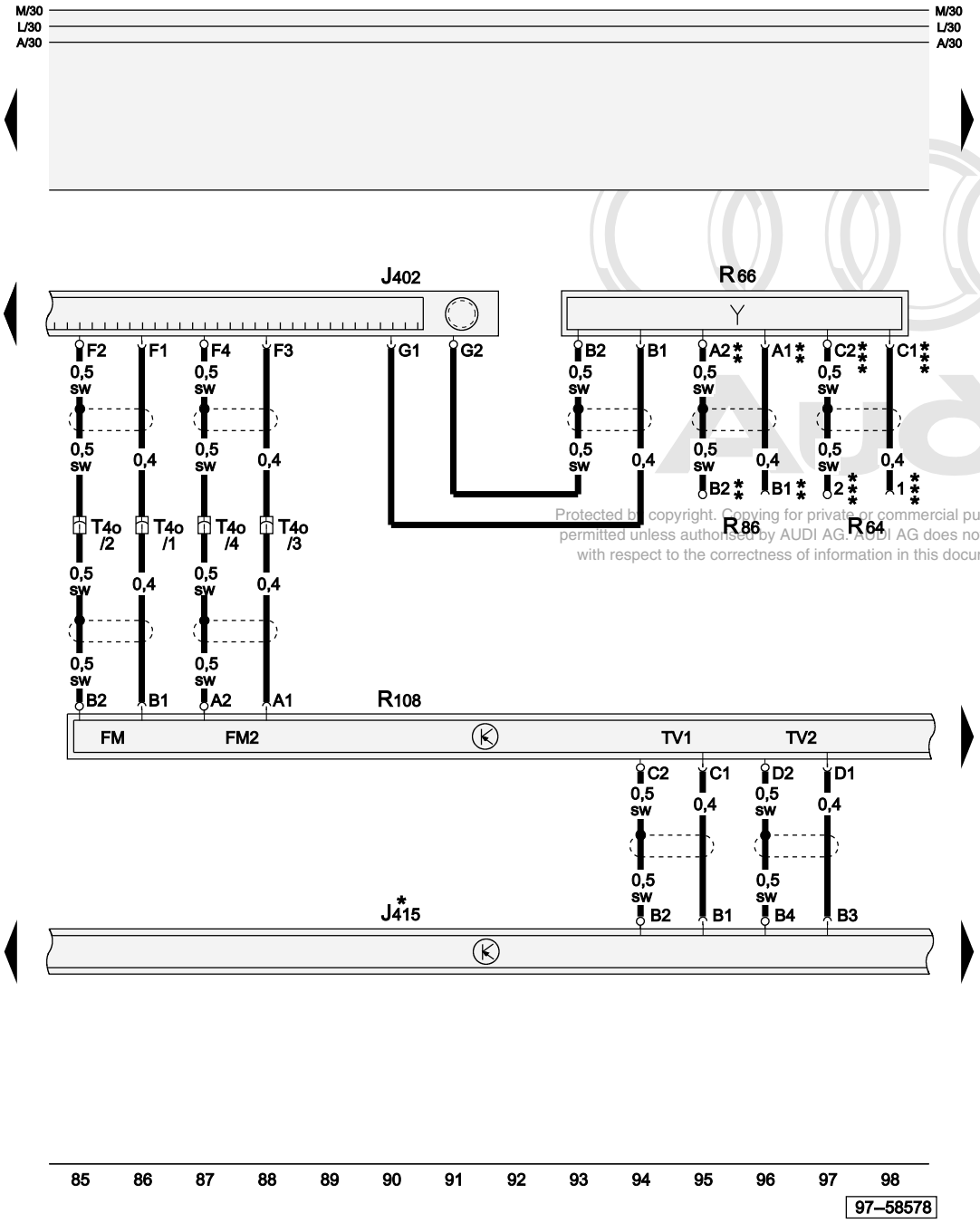


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Navigation system tuner for TV

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
T32d	32-pin connector, grey (connector E)
T54a	54-pin connector, black (connector A)
B437	Connection 1 (GPS), in main wiring harness
*	for models with TV tuner only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

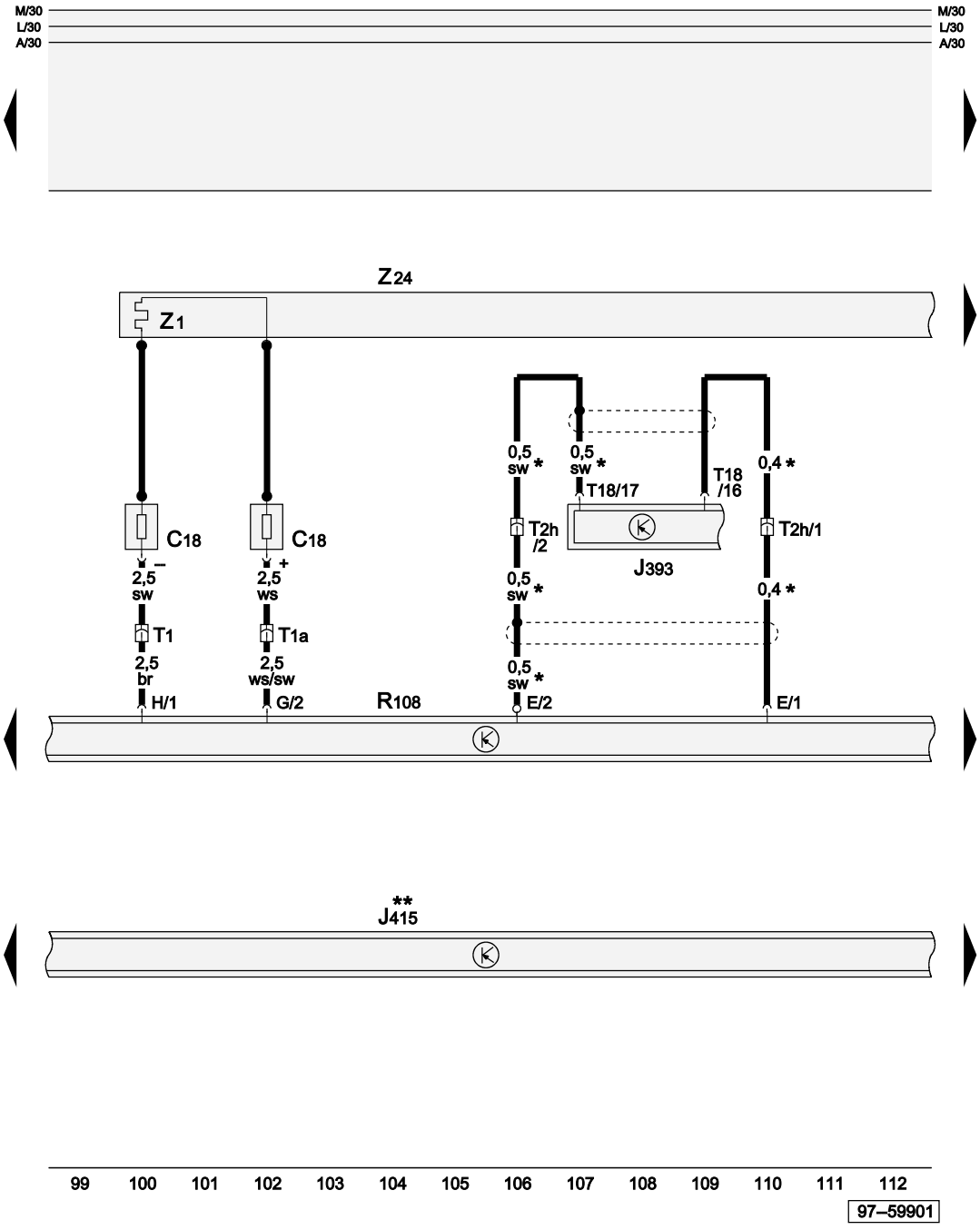


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Left aerial module, telephone, navigation system and auxiliary heater aerial

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R108	Aerial module, left
R64	Remote control receiver for auxiliary heating
R66	Telephone, navigation system and auxiliary heater aerial
R86	Aerial amplifier for mobile telephone
T4o	4-pin connector, near C-pillar right
*	for models with TV tuner only
**	for models with preparation for mobile telephone only
***	for models with auxiliary heating only

ws	=	white
sw	=	black
ro	=	red
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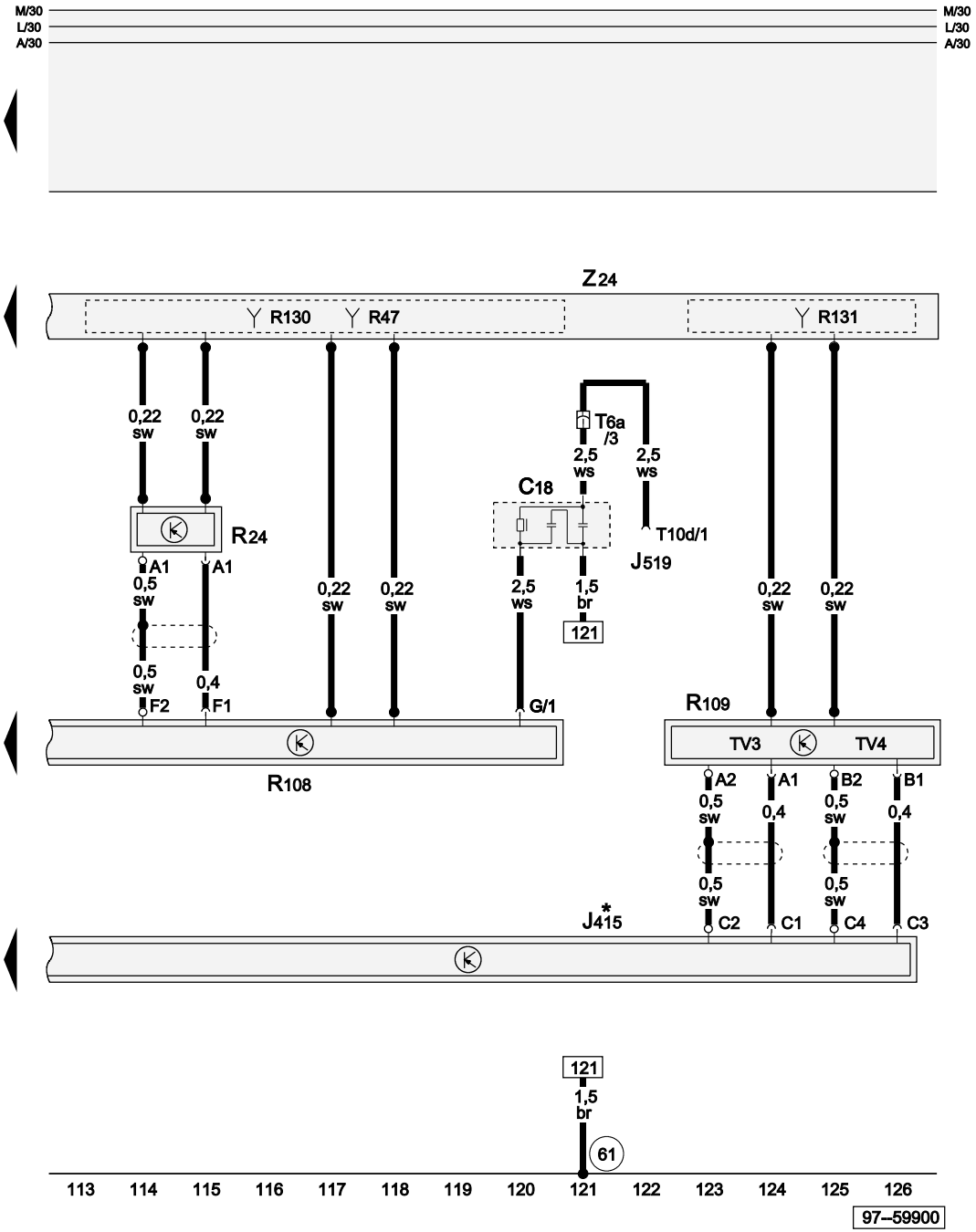


Left aerial module, heated rear window with window aerial

C18	Window aerial suppression filter
J393	Convenience system central control unit
J415	Navigation system tuner for TV
R108	Left aerial module
T1	1-pin connector, black, in rear lid
T1a	1-pin connector, brown, in rear lid
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
Z1	Heated rear window
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only
**	for models with TV tuner only

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bl	=	blue
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or	=	orange
rs	=	pink



Rear window aerial 1, rear window aerial 2

C18	Window aerial suppression filter
J415	Navigation system tuner for TV
J519	Onboard supply control unit
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R109	Right aerial module
R130	Rear window aerial 1
R131	Rear window aerial 2
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z24	Heated rear window with window aerial
(61)	Earth point, left C-pillar
*	for models with TV tuner only

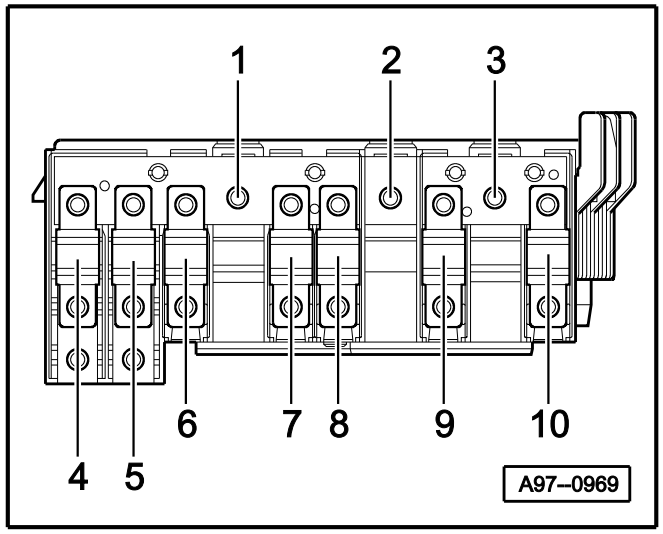
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rs	=	pink

Radio and navigation system RNS-E with Bose sound system

from model year 2004

Main fuse holder, electronics box



- On electronics box, in engine compartment, front left

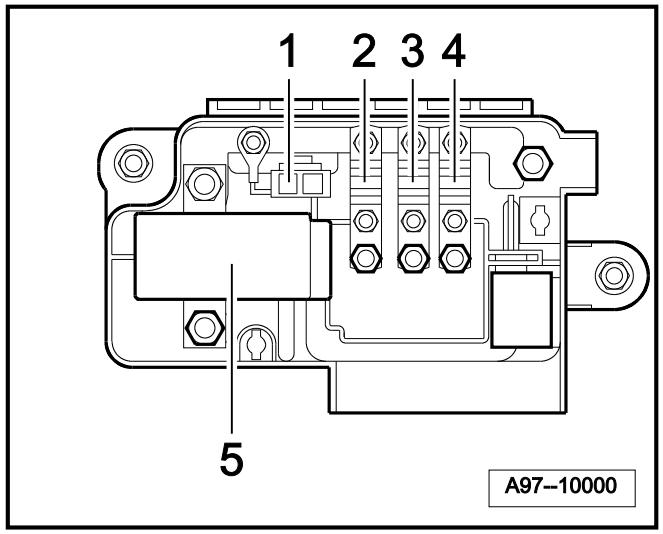
Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

Note:

- *The fuses in the main fuse holder are designated as SA in the Current Flow Diagram.*

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Main fuse box



♦ In luggage compartment, rear right

Fuse locations

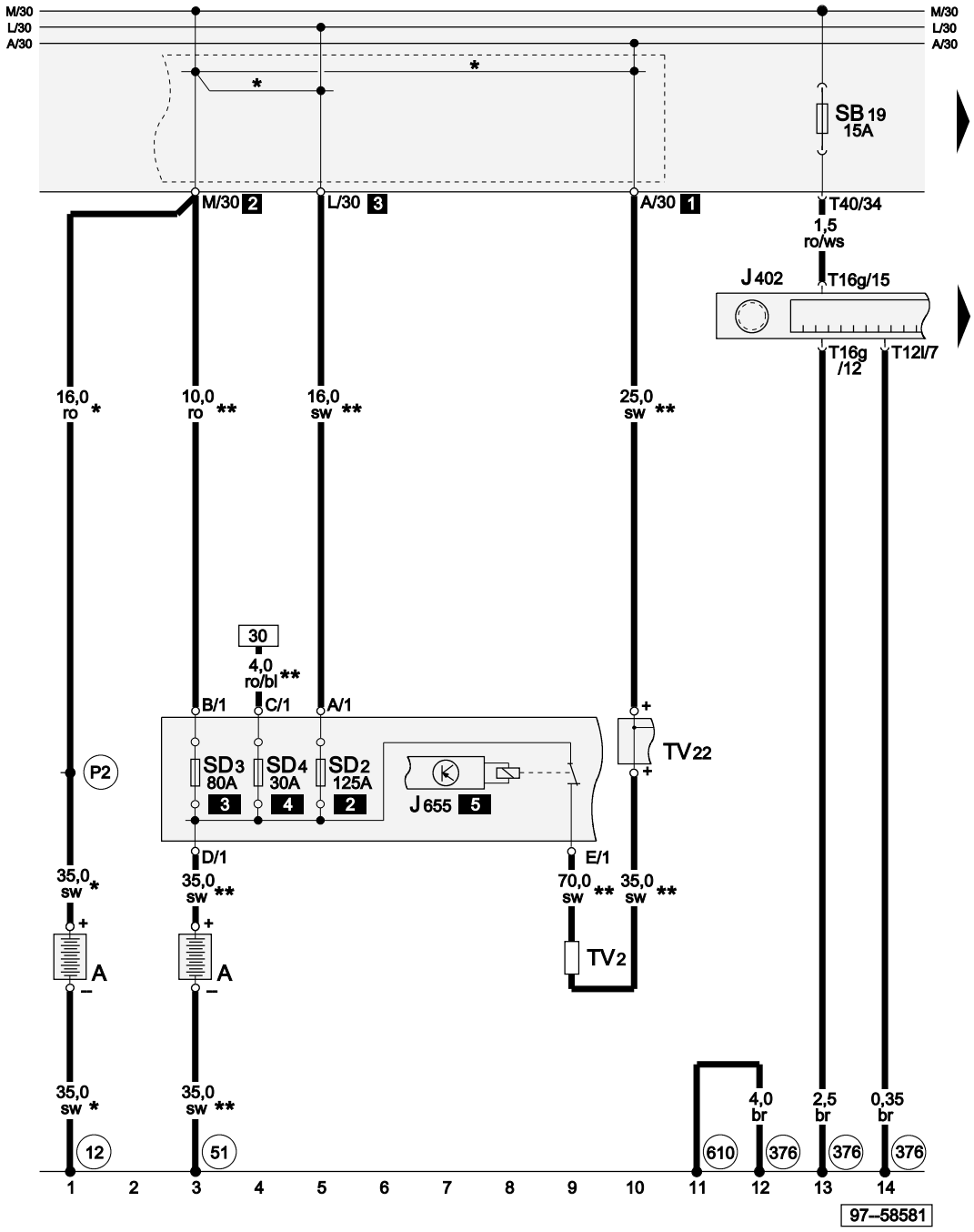
2 - Fuse -2- on fuse holder - SD2
3 - Fuse -3- on fuse holder - SD3
4 - Fuse 4 on fuse holder - SD4
Position of relays

5 - Battery cut-off relay - J655

Note:

♦ *The fuses in the main fuse box are designated as SD in the Current Flow Diagram.*

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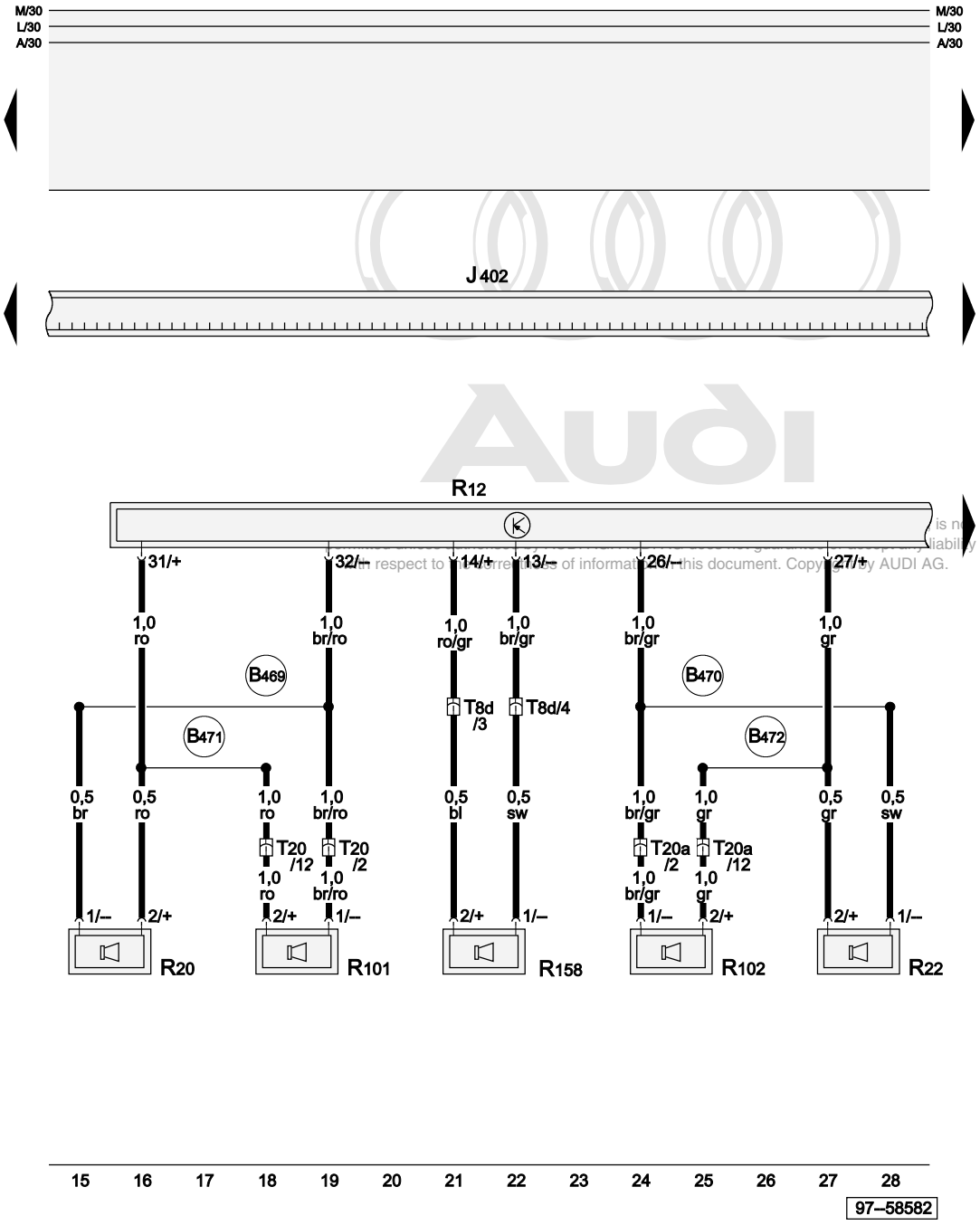


Battery, fuses on fuse holder

A	Battery
J655	Battery cut-off relay
J402	Navigation operating electronics control unit
SB19	Fuse 19 on fuse holder
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
SD4	Fuse 4 on fuse holder
T12l	12-pin connector, blue (connector B)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
12	Earth point, on left in engine compartment
51	Earth point, on right in luggage compartment
376	Earth connection 11, in main wiring harness
610	Earth point (audio), front under centre console
P2	Positive connection (30), in battery wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

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br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

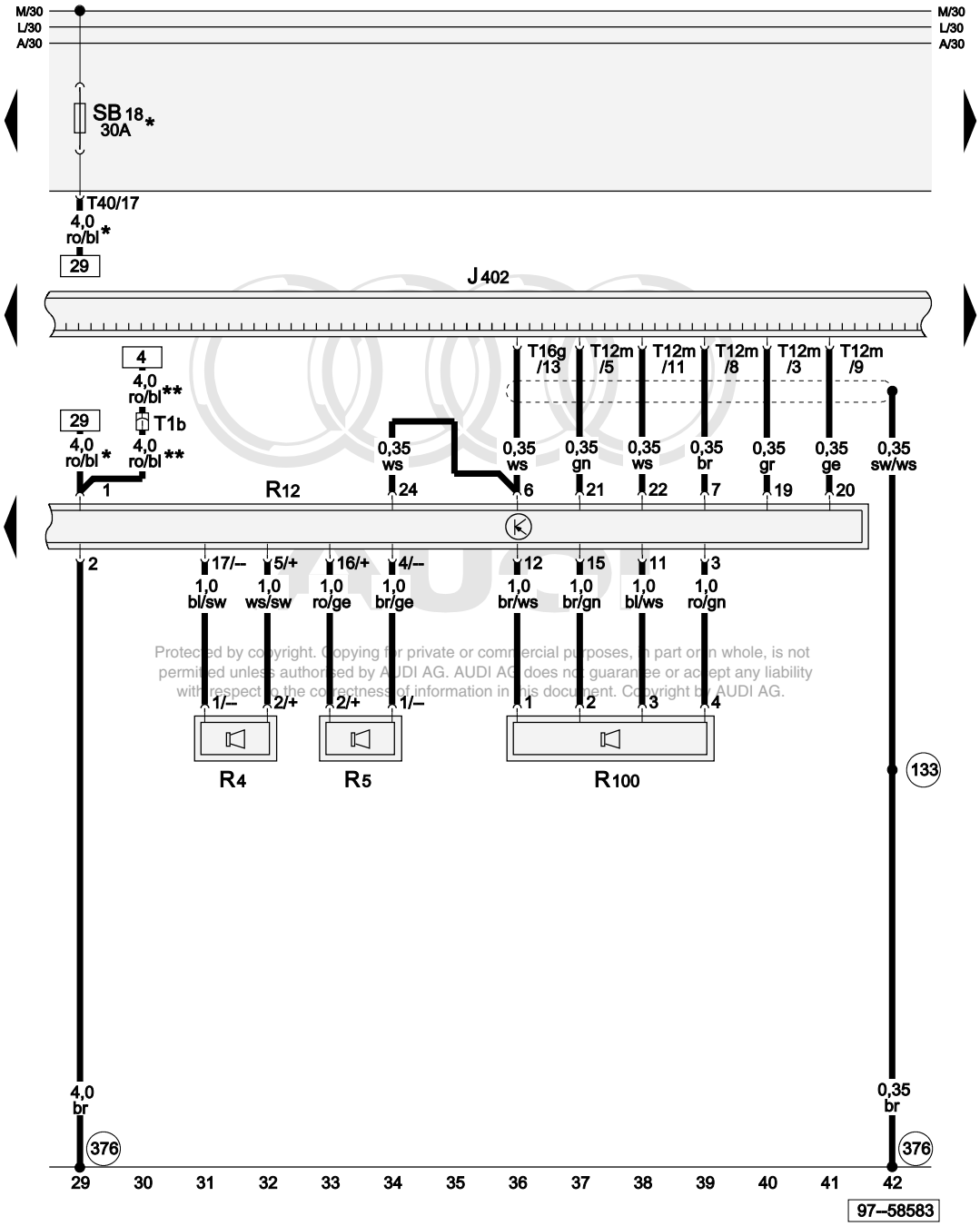


Front loudspeaker

J402	Navigation operating electronics control unit
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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rs	=	pink

Audi
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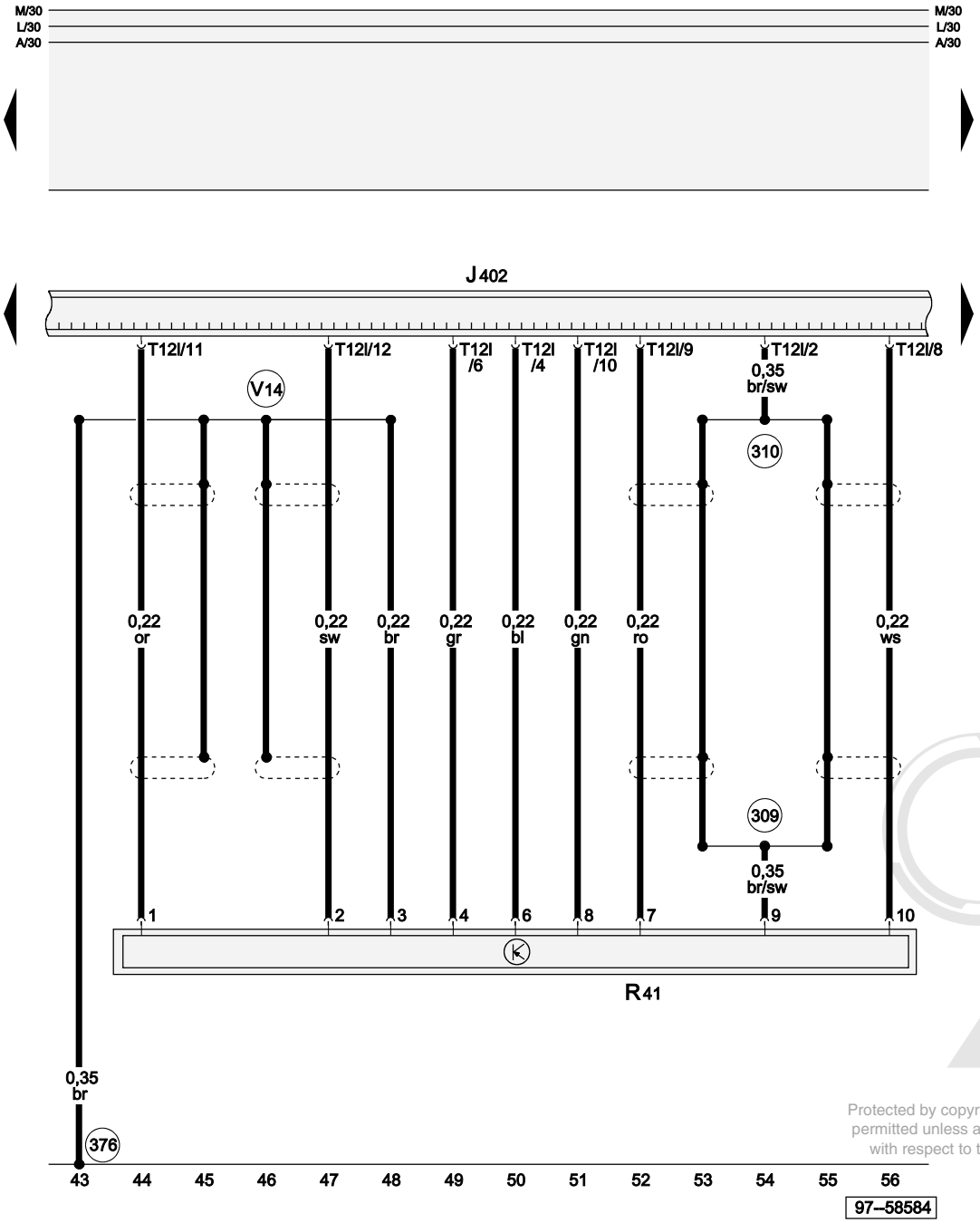


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Rear loudspeaker with amplifier

J402	Navigation operating electronics control unit
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder B
T1b	Single connector, black, on left C-pillar
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



CD changer

J402 Navigation operating electronics control unit
R41 CD changer
T12l 12-pin connector, blue (connector B)

309 Earth connection 1, screening, in CD changer wiring harness

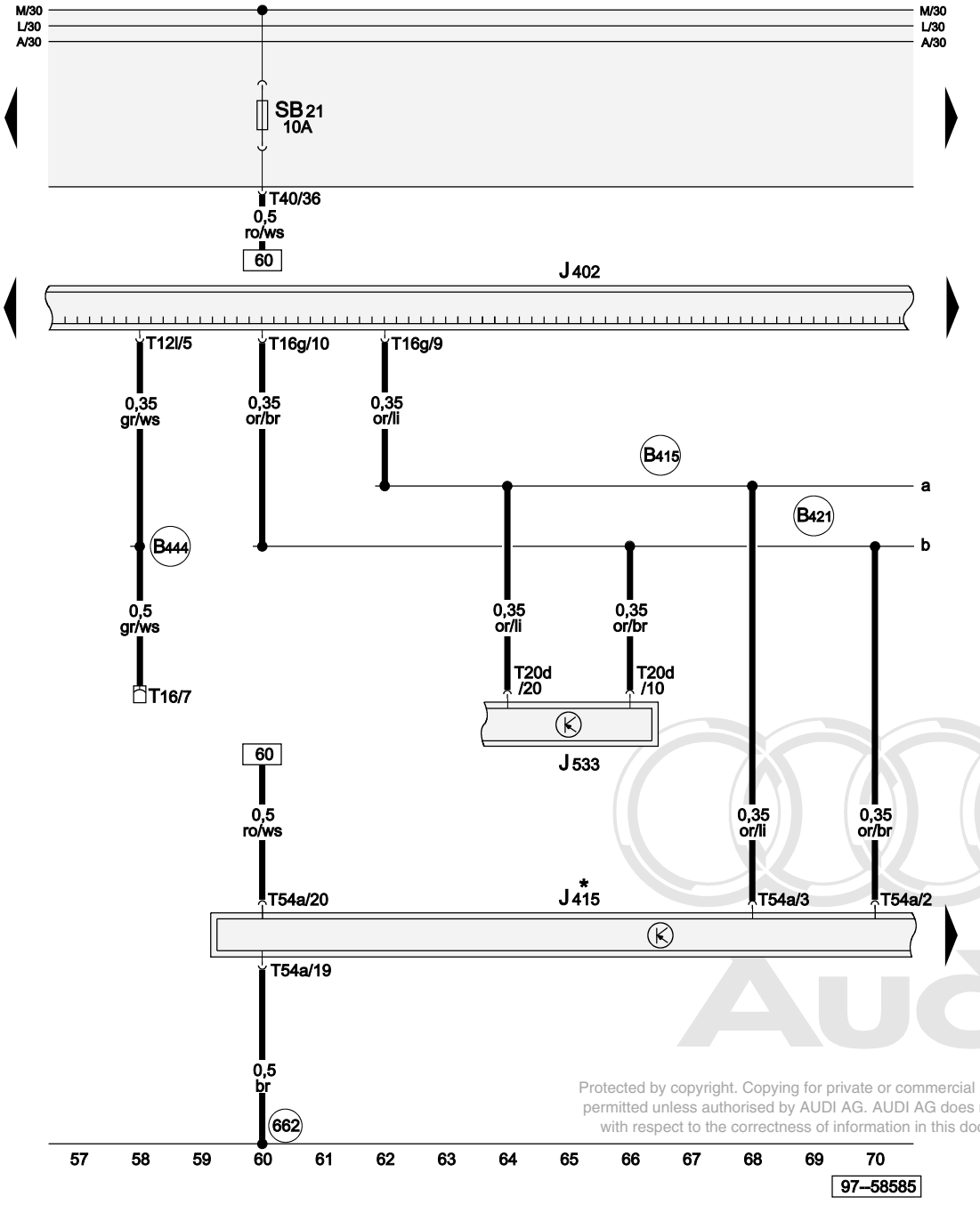
310 Earth connection 2, screening, in CD changer wiring harness

376 Earth connection 11, in main wiring harness

V14 Connection (screening), in CD changer wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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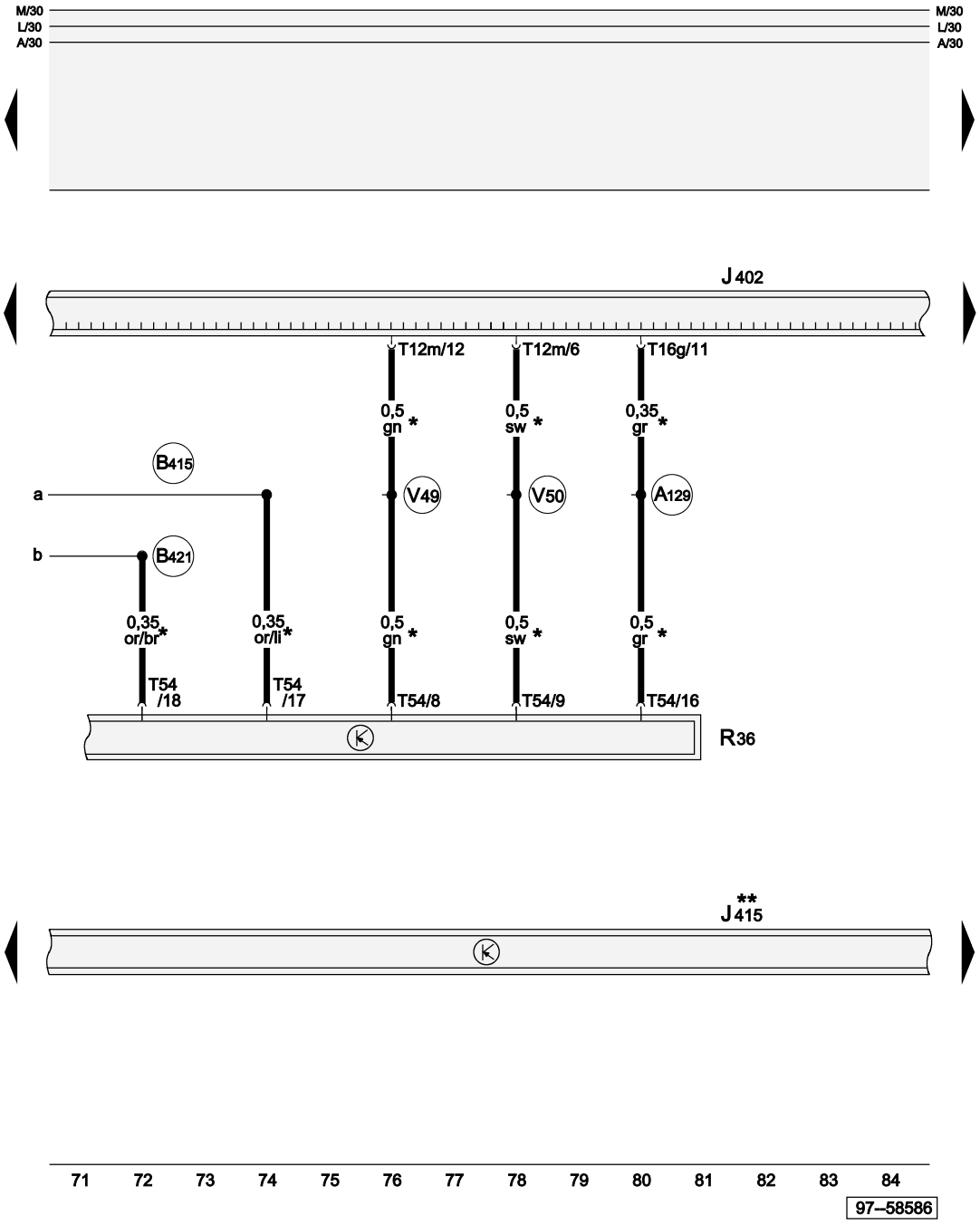


Infotainment CAN bus, diagnostic connector

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
J533	Data bus diagnostic interface
SB21	Fuse 21 on fuse holder
T12l	12-pin connector, blue (connector B)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, brown on electronics box, in engine compartment (connector J)
T54a	54-pin connector, black (connector A)
662	Earth point, rear left side panel
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with TV tuner only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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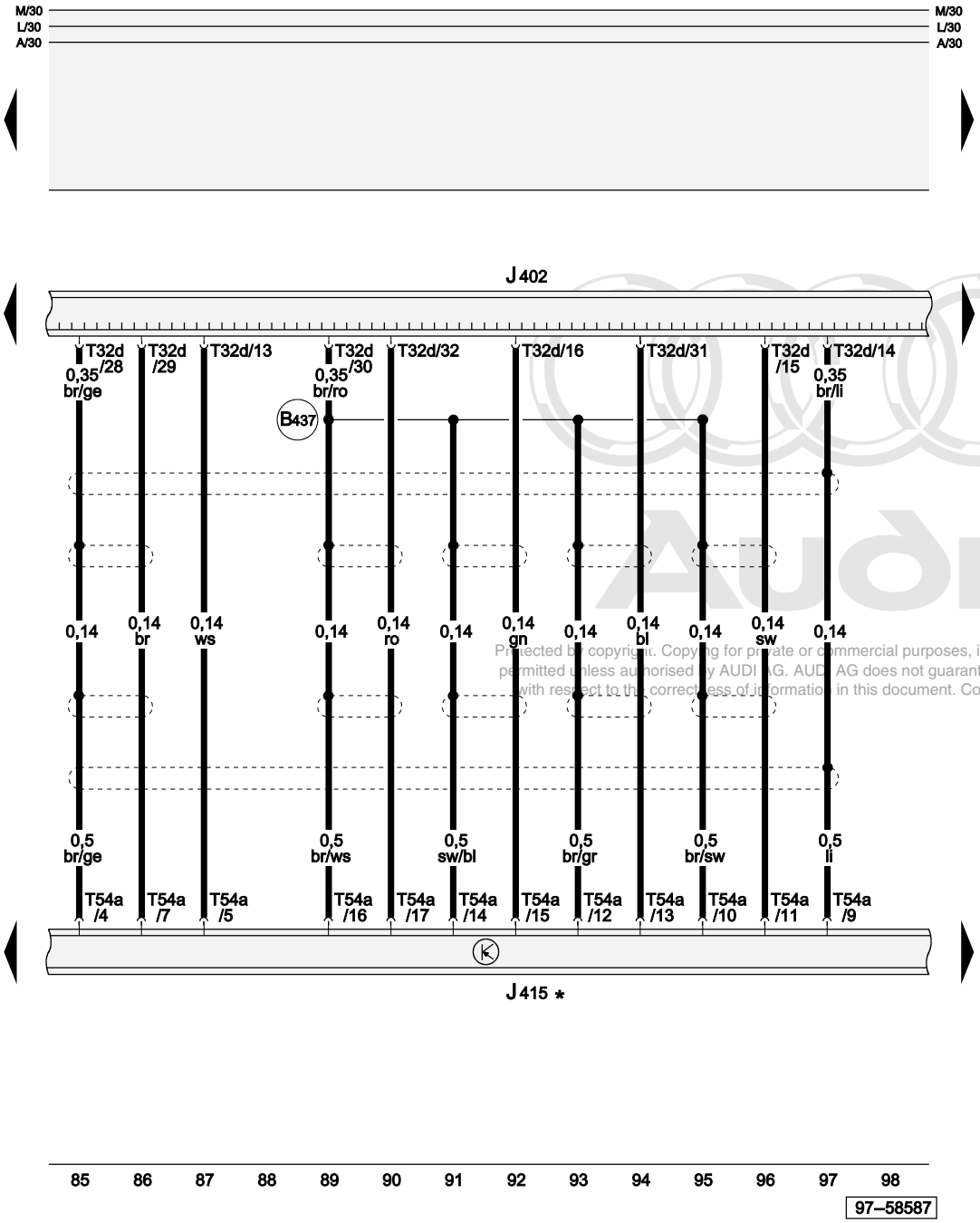


Infotainment CAN bus, muting

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R36	Telephone transmitter and receiver unit
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF+), in communication wiring harness
V50	Connection (NF-), in communication wiring harness
*	for models with mobile telephone/ telephone only
**	for models with TV tuner only

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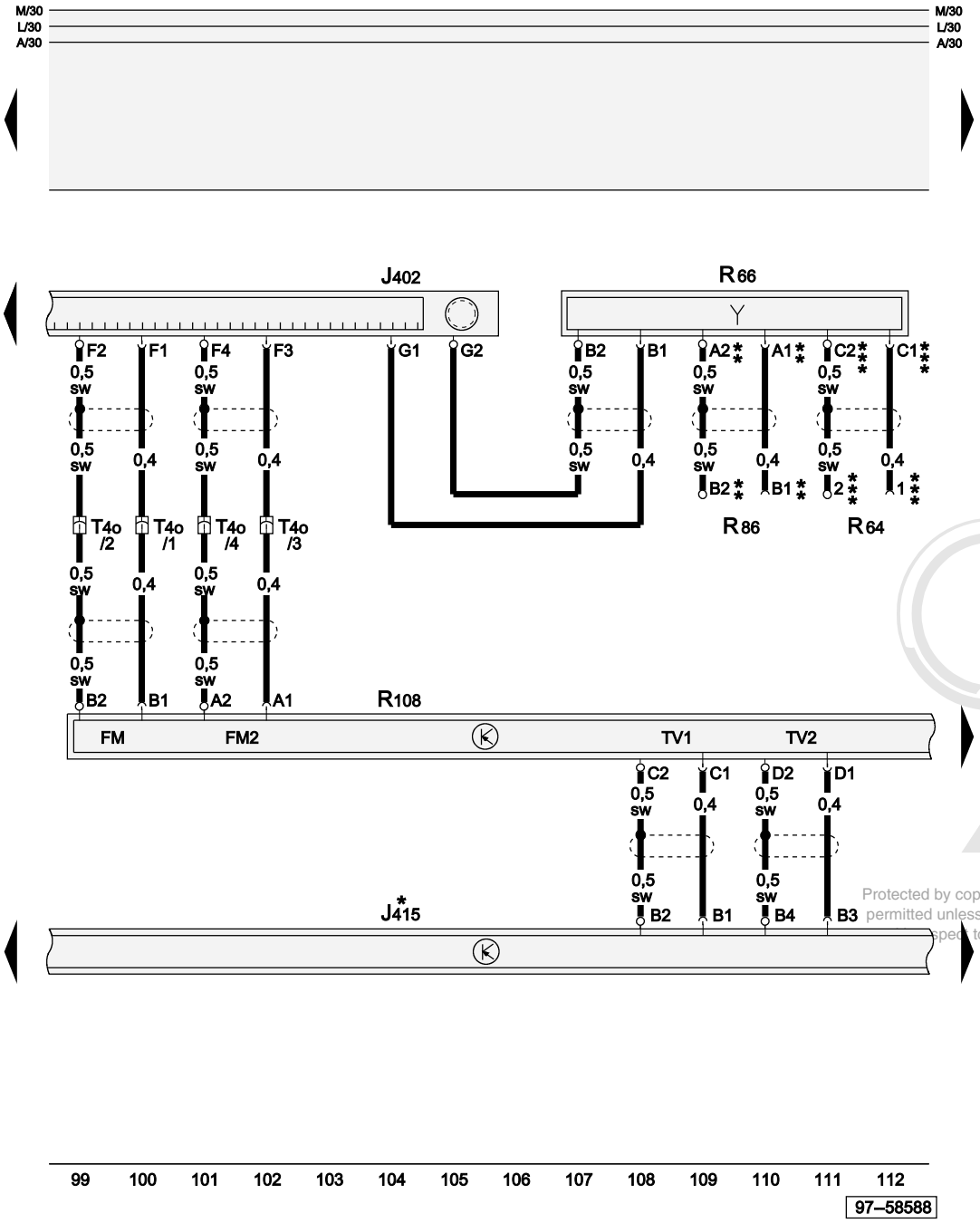


Navigation system tuner for TV

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
T32d	32-pin connector, grey (connector E)
T54a	54-pin connector, black (connector A)
B437	Connection 1 (GPS), in main wiring harness
*	for models with TV tuner only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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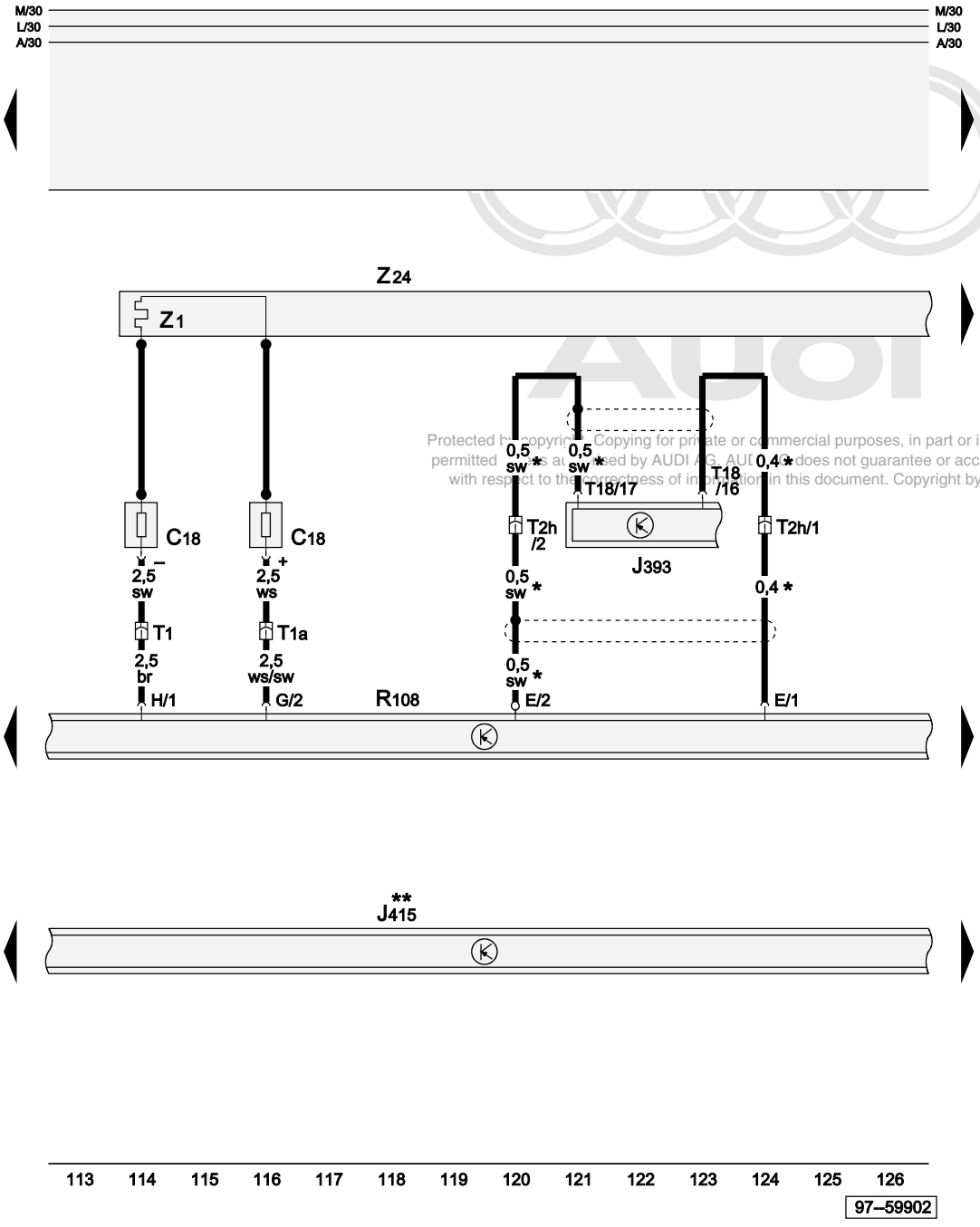


Left aerial module, telephone, navigation system and auxiliary heater aerial

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R108	Aerial module, left
R64	Remote control receiver for auxiliary heating
R66	Telephone, navigation system and auxiliary heater aerial
R86	Aerial amplifier for mobile telephone
T4o	4-pin connector, near C-pillar right
*	for models with TV tuner only
**	for models with preparation for mobile telephone only
***	for models with auxiliary heating only

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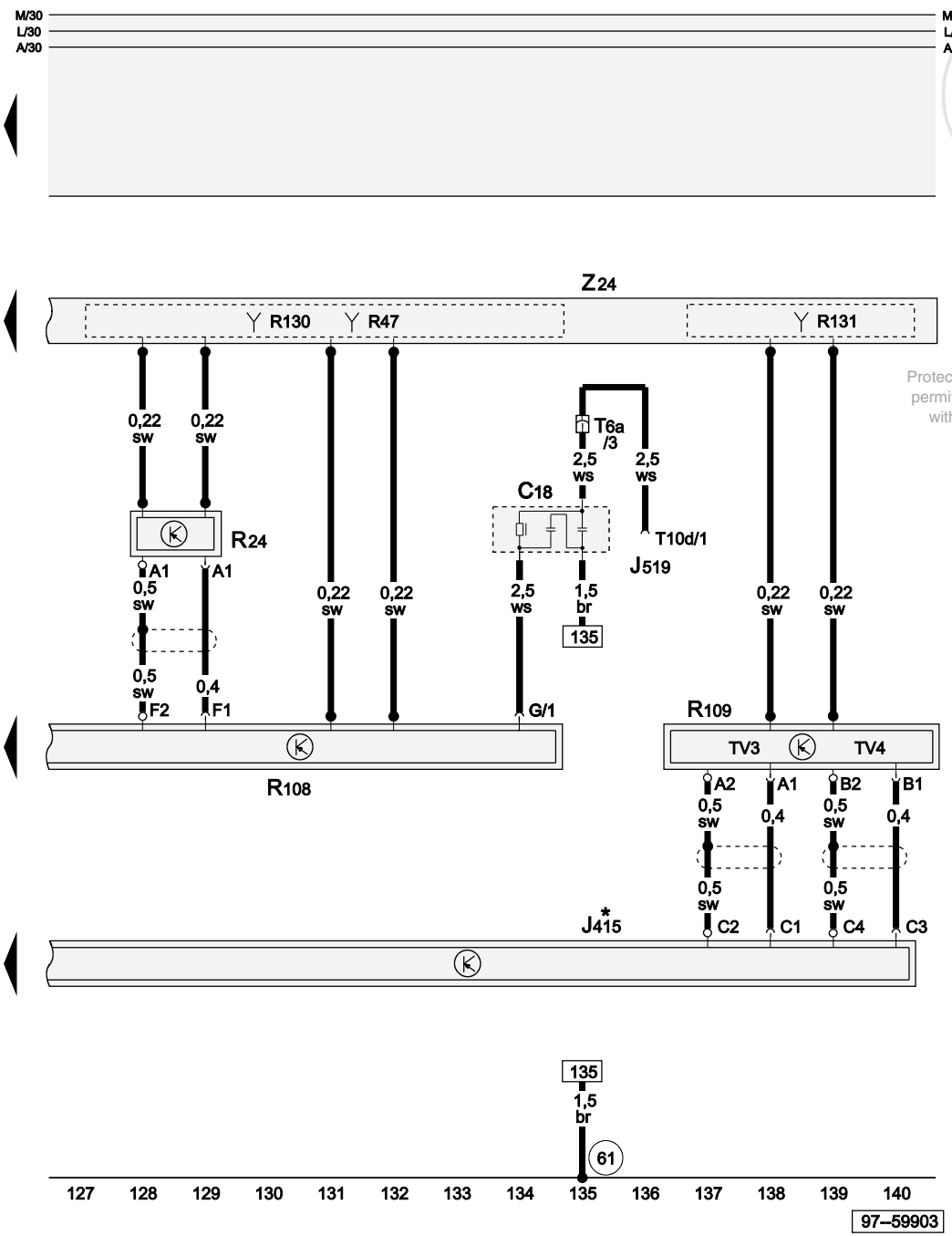


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Left aerial module, heated rear window with window aerial

C18	Window aerial suppression filter
J393	Convenience system central control unit
J415	Navigation system tuner for TV
R108	Left aerial module
T1	1-pin connector, black, in rear lid
T1a	1-pin connector, brown, in rear lid
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
Z1	Heated rear window
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only
**	for models with TV tuner only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Rear window aerial 1, rear window aerial 2

C18	Window aerial suppression filter
J415	Navigation system tuner for TV
J519	Onboard supply control unit
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R109	Right aerial module
R130	Rear window aerial 1
R131	Rear window aerial 2
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
*	for models with TV tuner only

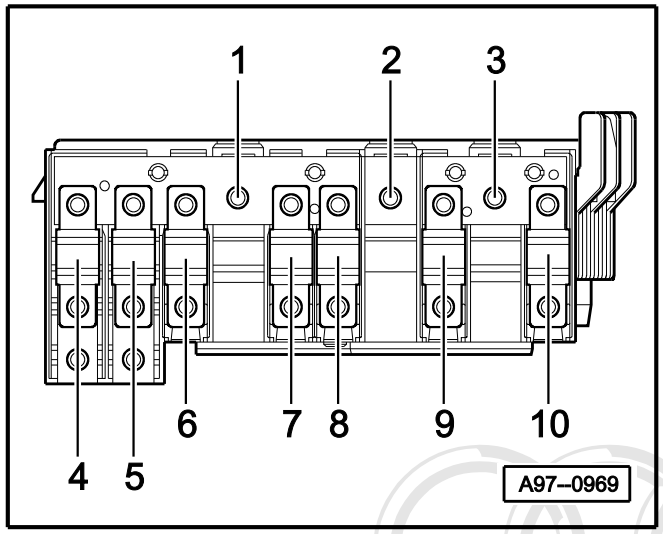
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rs	=	pink

Auxiliary heater

From model year 2004

Main fuse box, electronics box



♦ At electronics box, in engine compartment, front left

Main supply connection
1 - Screw connection A (terminal 30)
2 - Screw connection M (terminal 30)
3 - Screw connection L (terminal 30)

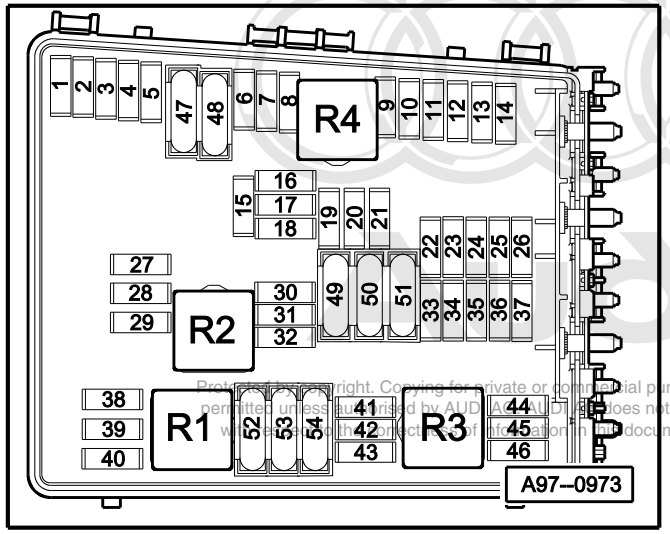
Position of fuses
7 - Fuse -4- on fuse box/battery (SA4)
9 - Fuse -6- on fuse box/battery (SA6)

Note:

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♦ *Fuses in main fuse box are designated as SA in the Current Flow Diagram.*

Relay and fuse carrier, electronics box



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- In engine compartment, front left

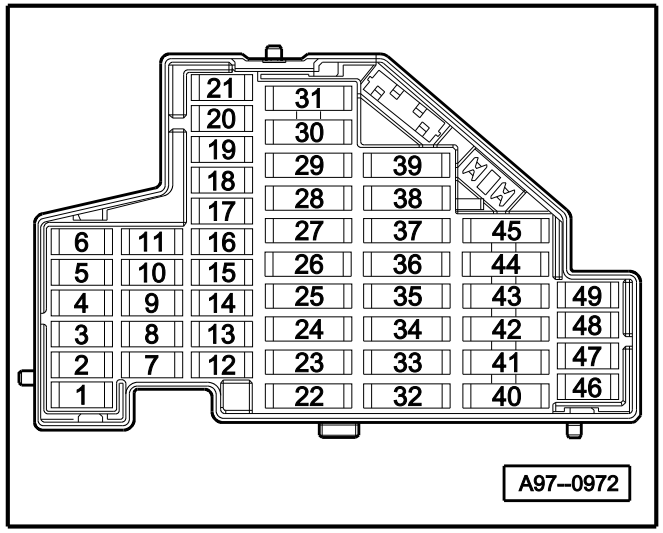
Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Fuse box



- Dash panel, driver's side

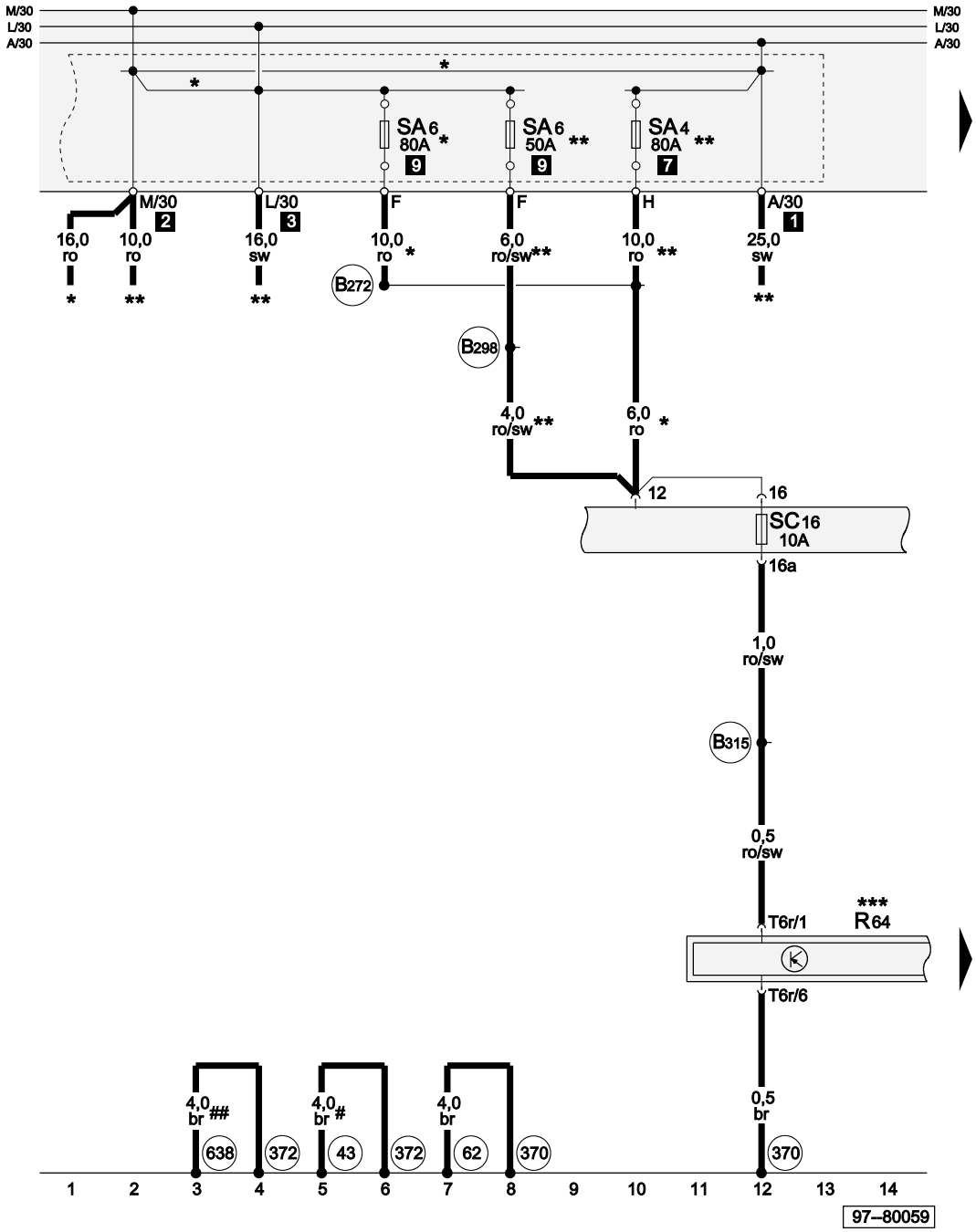
Fuse colours

40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

- *Fuses in fuse box are designated as SC in the Current Flow Diagram.*

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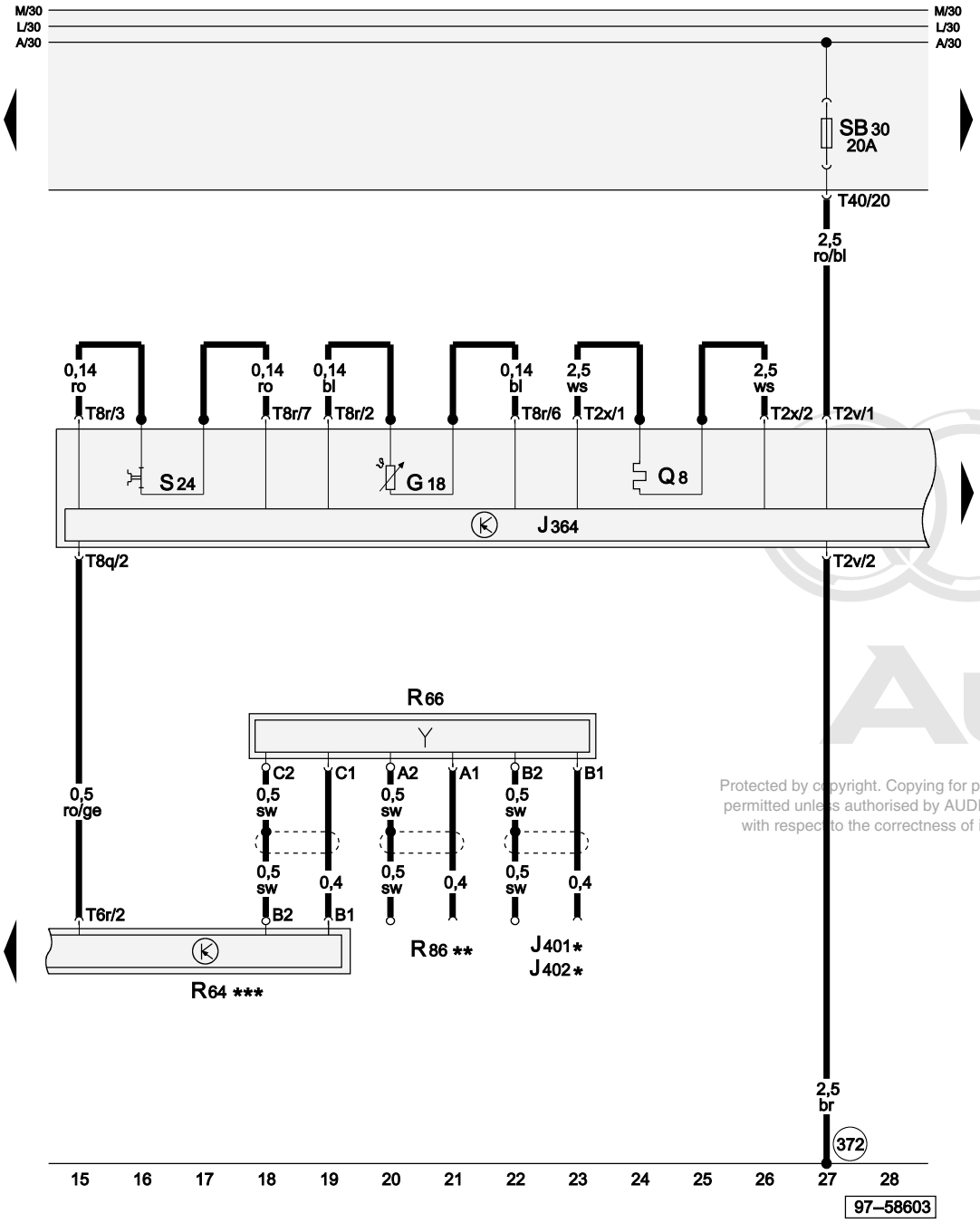


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Heater coolant shut-off valve, metering pump, combustion air blower, circulation pump

R64	Remote control receiver for auxiliary heating
SA4	Fuse 4 on fuse box/battery
SA6	Fuse 6 on fuse box/battery
SC16	Fuse 16 on fuse box
T6r	6-pin connector, black (connector A)
43	Earth point, A pillar, bottom right
62	Earth point in right C pillar
370	Earth connection 5, in main wiring harness
372	Earth connection 7, in main wiring harness
638	Earth point on right A pillar
B272	Positive (+) connection (30), in main wiring harness
B298	Positive (+) connection 2 (30), in main wiring harness
B315	Positive (+) connection 1 (30a), in main wiring harness
*	Only applies to models with battery in engine compartment
**	Only applies to models with battery in luggage compartment
***	Only applies to models with remote control receiver for auxiliary heating
#	As of model year 2005 no longer fitted
##	Applicable from model year 2005

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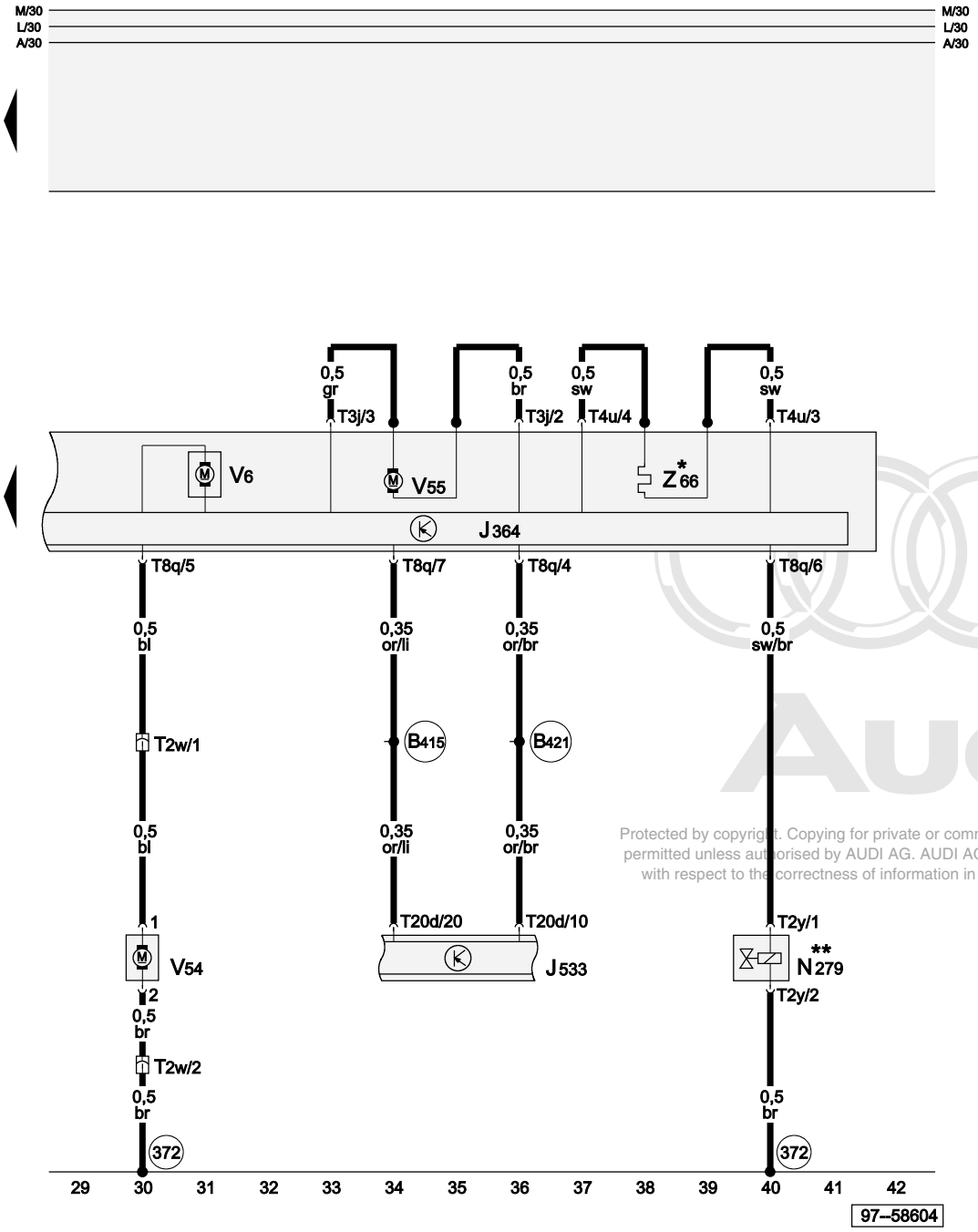


Temperature sensor, heater overheating fuse, glow plug with flame monitor

G18	Temperature sensor
J364	Additional heater control unit
J401	Navigation system with CD drive control unit
J402	Operating electronics control unit, navigation
Q8	Glow plug with flame monitor
R64	Auxiliary heating radio controlled receiver
R66	Telephone, navigation (GPS), auxiliary heater aerial
R86	Aerial amplifier, mobile telephone
S24	Heater overheating fuse/air conditioning system compressor
SB30	Fuse 30 on fuse box
T2v	2-pin connector, black (connector B)
T2x	2-pin connector, white
T6r	6-pin connector, black (connector A)
T8q	8-pin connector, black (connector A)
T8r	8-pin connector, black
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
372	Earth connection 7, in main wiring harness
*	Only applies to models with navigation system
**	Only applies to models with mobile telephone/provision for mobile telephone
***	Only applies to models with auxiliary heating radio controlled receiver

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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gr	=	grey
li	=	purple
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Heater coolant shut-off valve, metering pump, combustion air blower, circulation pump

J364	Additional heater control unit
J533	Data bus diagnostic interface
N279	Heater coolant shut-off valve
T2y	2-pin connector, black
T2w	2-pin connector, black, near fuel pump
T3j	3-pin connector, black
T4u	4-pin connector, black
T8q	8-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
V6	Combustion air blower
V54	Metering pump
V55	Circulation pump
Z66	Fuel pre-heating heater element
372	Earth connection -7-, in main wiring harness
B415	Connection -1- (infotainment CAN bus, high), in main wiring harness
B421	Connection -1- (infotainment CAN bus, low), in main wiring harness
*	Only applies to models with diesel engine
**	Only applies to models with heater coolant shut-off valve

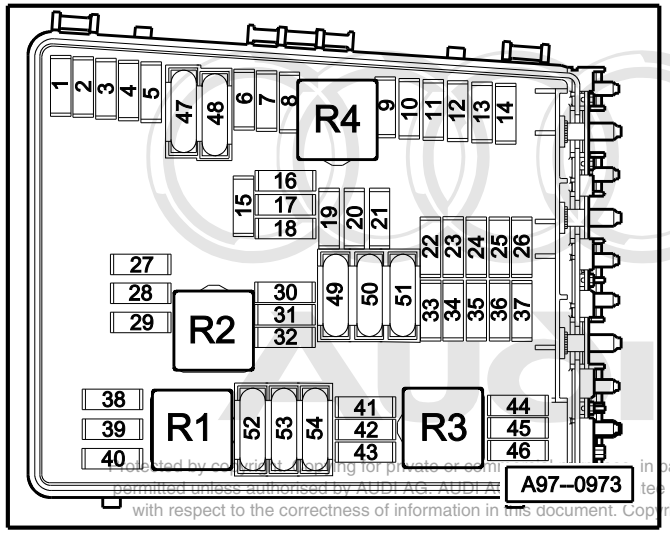
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Radiator fan control - 60 W, 220 W (without air conditioning system)

⇒ **1.6 litre fuel injection engine (75 kW - Simos - 4-cylinder), engine code BGU**
⇒ **1.6 litre fuel injection engine (85 kW - FSI - 4-cylinder), engine code BAG**
⇒ **1.9 litre diesel engine (77 kW - unit injector - 4-cylinder), engine code BKC**
From November 2003 onwards

Relay and fuse carrier, electronics box



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◆ In engine compartment, front left

Fuse colours

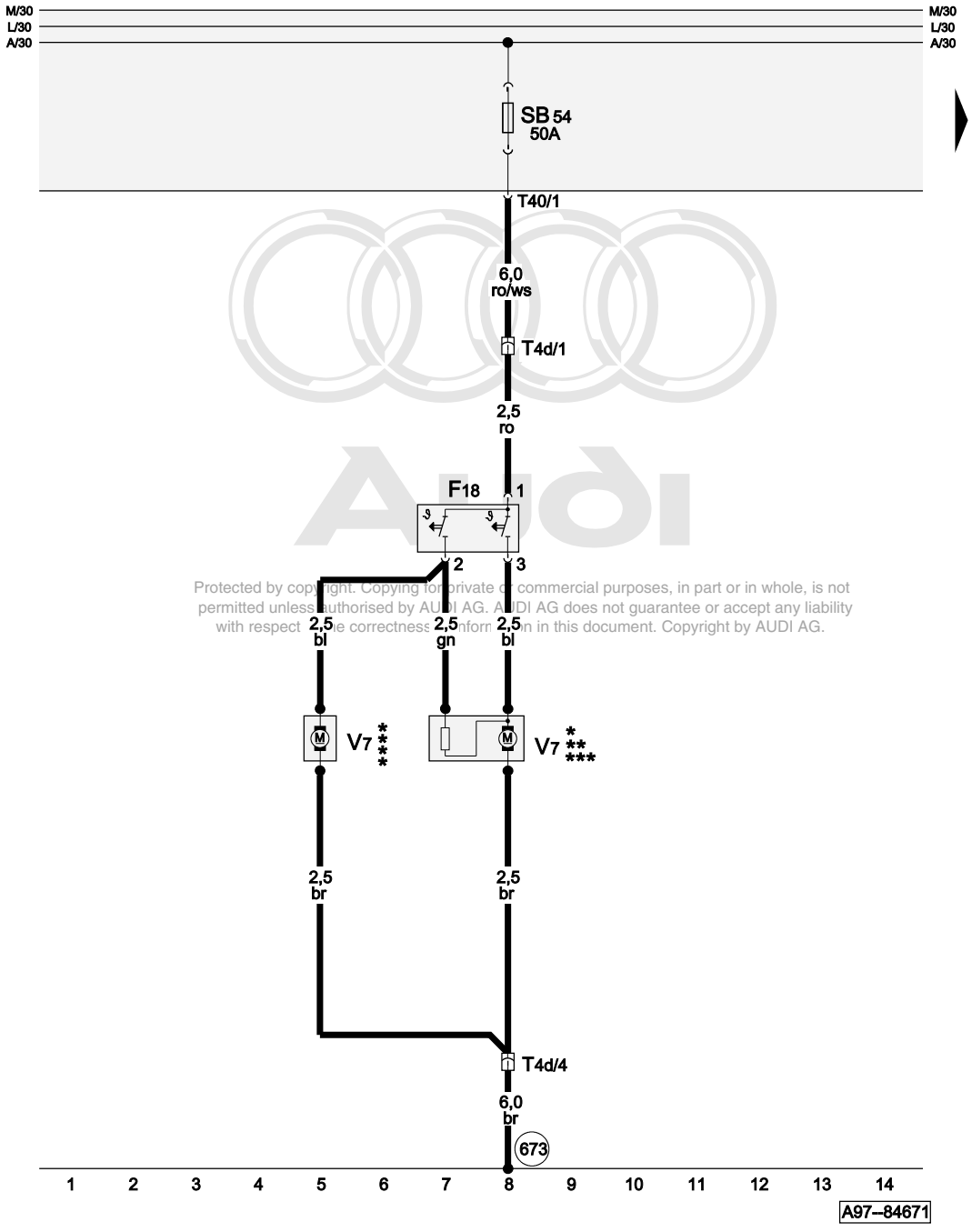
50 A - red
10 A - red

Note:

◆ *Fuses marked "F" in the electronics box are designated as SB in the Current Flow Diagram.*

Position of relays

R4 - Current supply relay for Simos control unit - J363
R4 - Terminal 30 voltage supply relay - J317
R4 - Motronic current supply relay - J271

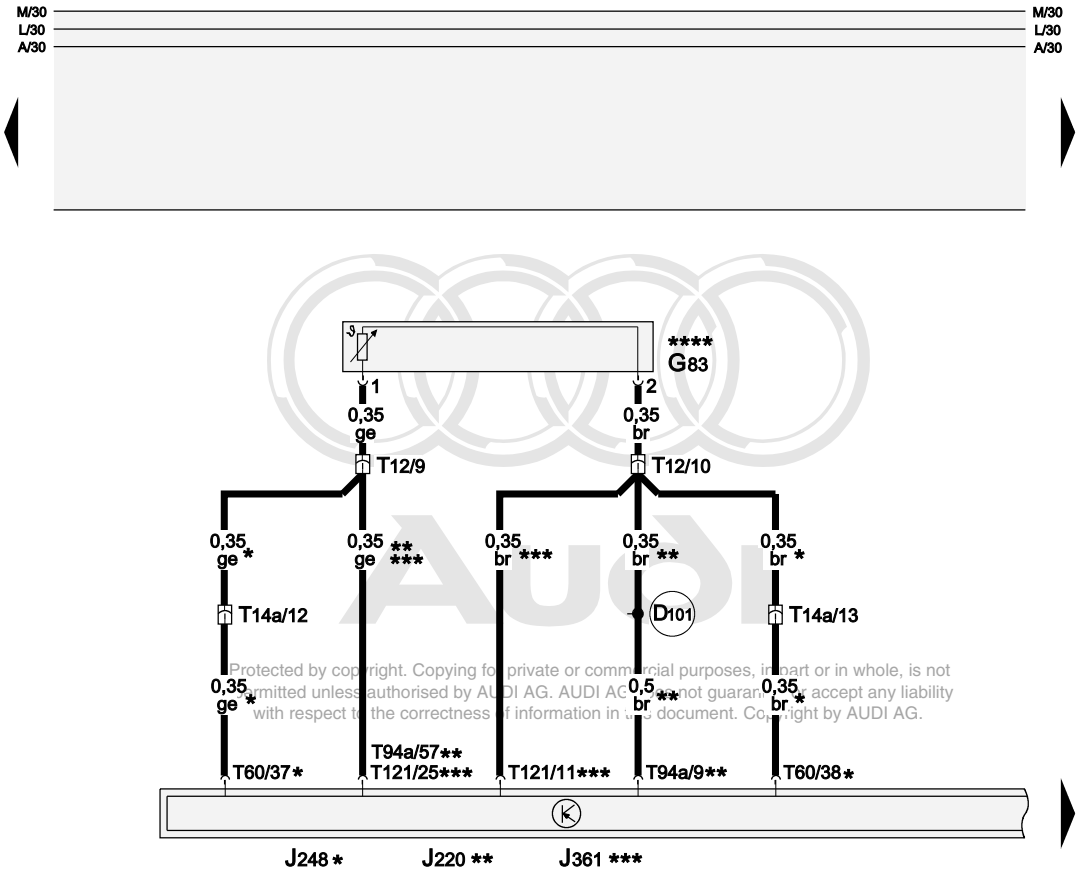


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li = purple
ge = yellow
or = orange
rs = pink

Radiator fan

F18	Radiator fan thermo-switch
SB54	Fuse -54- on fuse box
T4d	4-pin connector, black, at radiator fan (front end)
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
V7	Radiator fan
(673)	Earth point -3-, on longitudinal member, front left
*	Only applies to countries with hot climate or cold climate, models with manual gearbox and trailer operation or automatic gearbox, engine codes BAG, BGU
**	Only applies to countries with cold climate, models with manual gearbox, engine code BKC
***	Does not apply to countries with hot climate or cold climate, models with manual gearbox and trailer operation or automatic gearbox, engine code BKC
****	Only applies to countries with cold climate, models with manual gearbox, engine codes BAG, BGU



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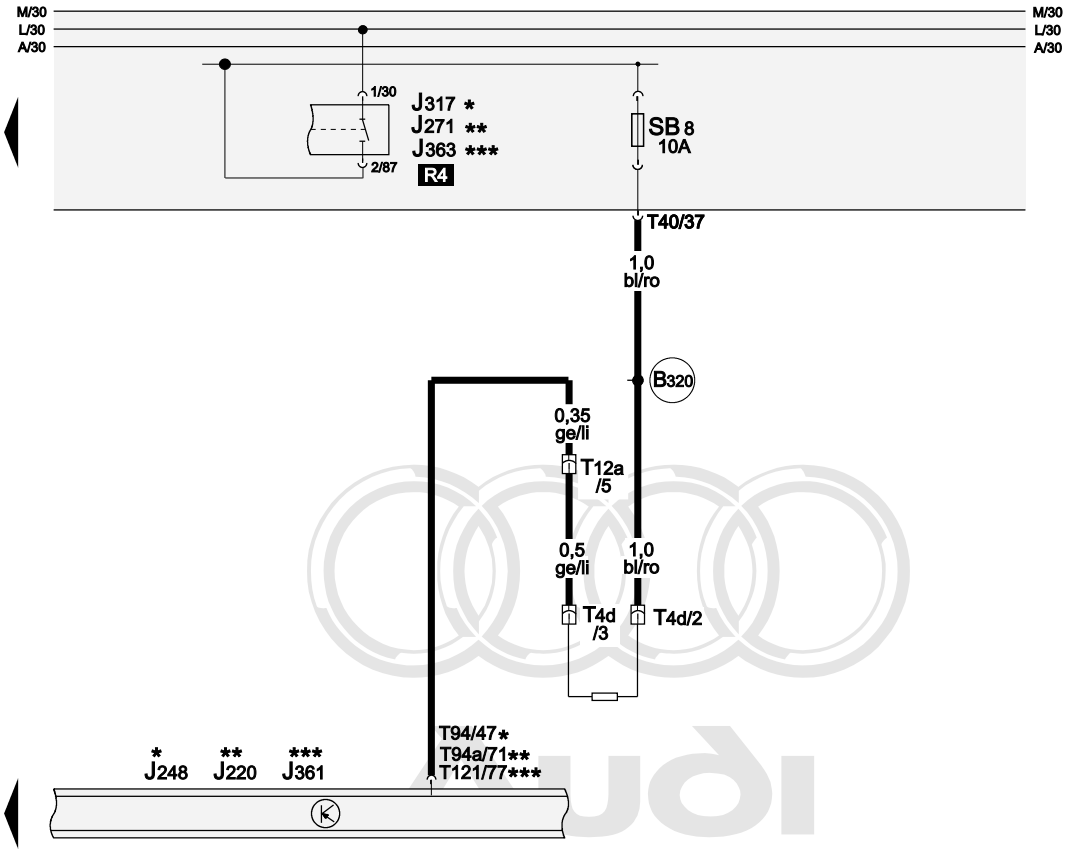
15 16 17 18 19 20 21 22 23 24 25 26 27 28

A97--84674

Coolant temperature sender - radiator outlet

G83	Coolant temperature sender - radiator outlet
J220	Motronic control unit
J248	Diesel direct injection system control unit
J361	Simos control unit
T12	12-pin connector, green, in plenum chamber
T14a	14-pin connector, black, near relay carrier, electronics box
T60	60-pin connector, black (connector A)
T94a	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
D101	Connection -1-, in engine compartment wiring harness
*	Only applies to models with engine code BKC
**	Only applies to models with engine code BAG
***	Only applies to models with engine code BGU
****	Only applies to models with coolant temperature sender - radiator outlet

ws	=	white
sw	=	black
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Matching resistor

J220	Motronic control unit
J248	Diesel direct injection system control unit
J361	Simos control unit
J363	Current supply relay for Simos control unit
J271	Motronic current supply relay
J317	Terminal 30 voltage supply relay
SB8	Fuse -8- on fuse box
T4d	4-pin connector, black, at radiator fan (front end)
T12a	12-pin connector, blue, in plenum chamber
T40	40-pin connector, brown, at electronics box, engine compartment (connector J)
T94	94-pin connector, black (connector B)
T94a	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B320	Positive (+) connection -6- (30a), in main wiring harness
*	Only applies to models with engine code BKC
**	Only applies to models with engine code BAG
***	Only applies to models with engine code BGU

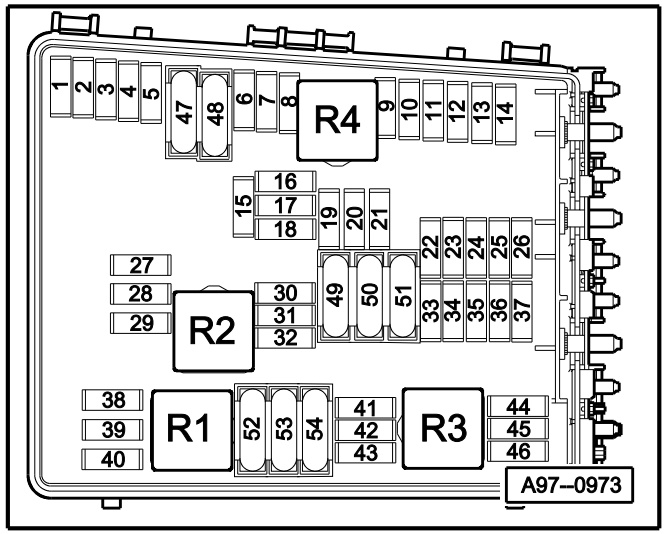
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rs	=	pink

Automatic gearbox (09G)

from model year 2004

Relay and fuse carrier, electronics box



- In engine compartment, front left

Fuse colours

50 A - red
40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

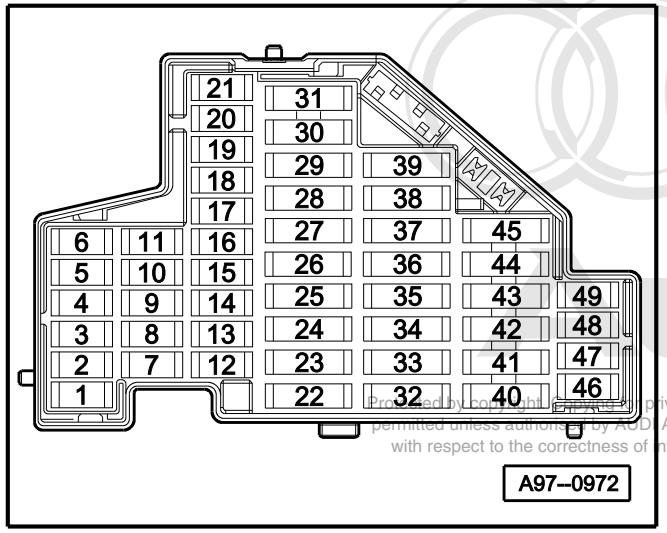
Note:

- *The fuses in electronics box with the designation F are designated as SB in the Current Flow Diagram.*

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Position of relays
R1 - Terminal 15 voltage supply relay - J329
R2 - Terminal 50 voltage supply relay - J682

Fuse holder



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- Driver side dash panel

Fuse colours

40 A - orange
30 A - green
25 A - white
20 A - yellow
15 A - blue
10 A - red
5 A - beige

Note:

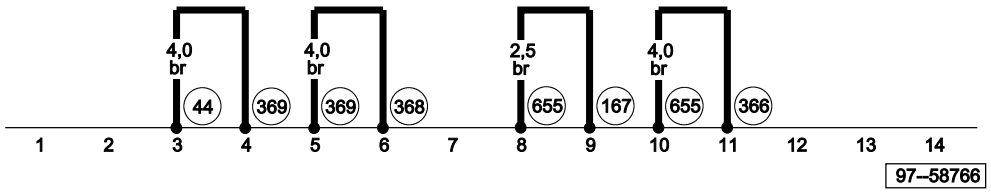
- *The fuses in the fuse holder are designated as SC in the Current Flow Diagram.*



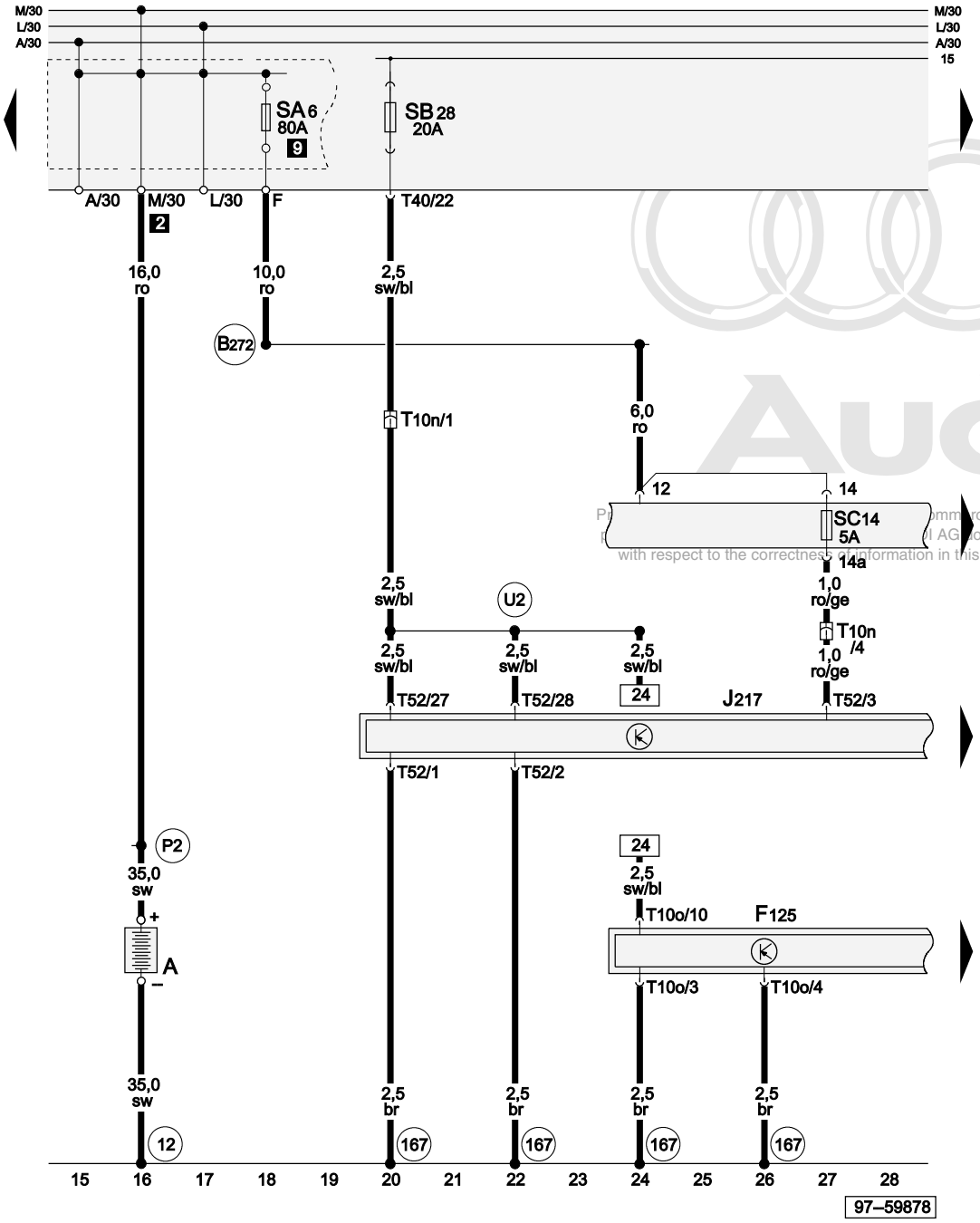
Earth points and earth connections

44	Earth point, lower part of left A-pillar
167	Earth connection 4, in engine compartment wiring harness
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
655	Earth point, on left headlight

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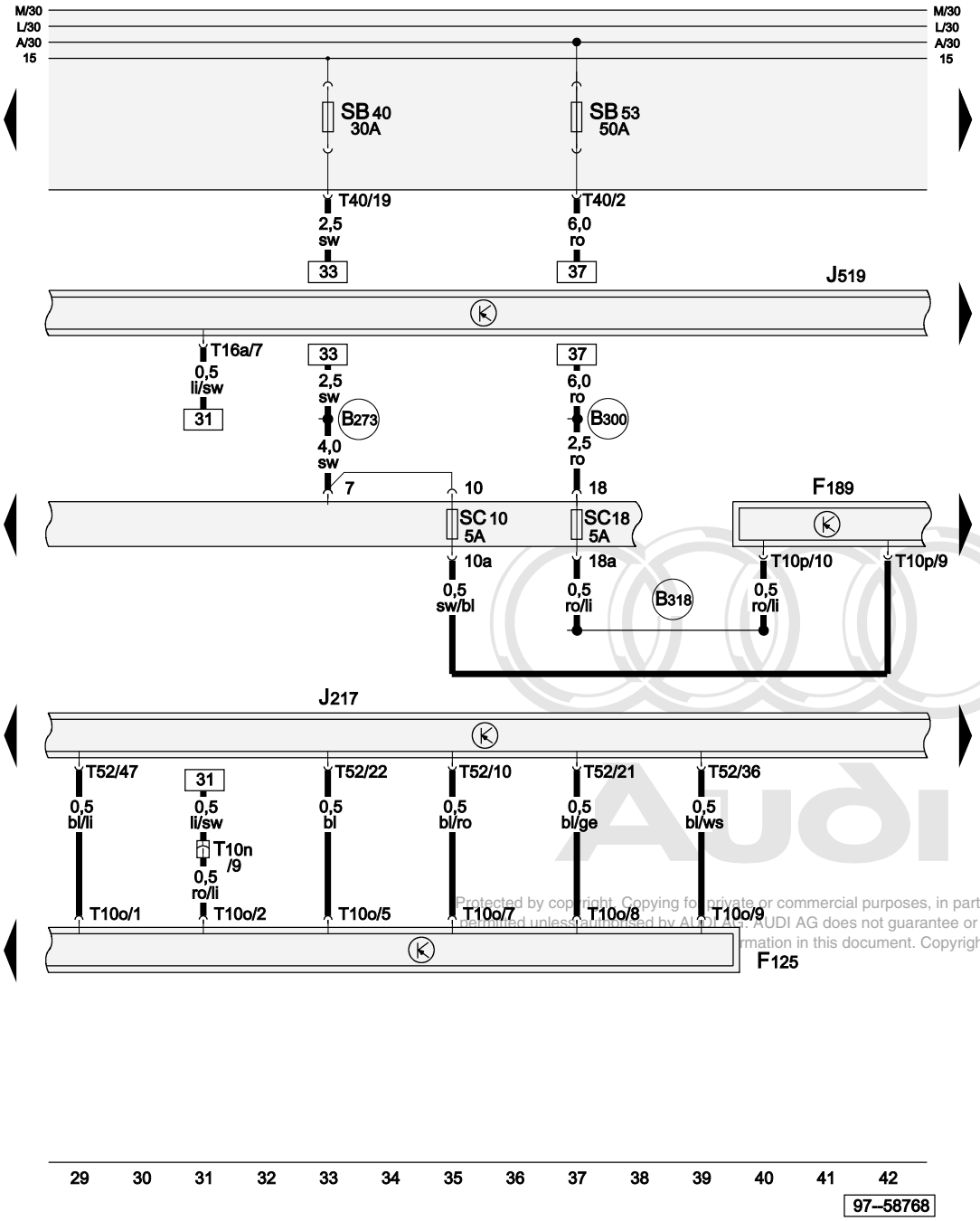


Fuses on fuse holder, multifunction switch

A	Battery
F125	Multifunction switch
J217	Automatic gearbox control unit
SA6	Fuse 6 on fuse holder on battery
SB28	Fuse 28 on fuse holder
SC14	Fuse 14 on fuse holder
T10n	10-pin connector, black, near longitudinal member, front left
T10o	10-pin connector, black (connector C)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T52	52-pin connector, black (connector A)
12	Earth point, on left in engine compartment
167	Earth connection 4, in engine compartment wiring harness
B272	Positive connection (30), in main wiring harness
P2	Positive connection (30), in battery wiring harness
U2	Connection 1 (15), in automatic gearbox wiring harness

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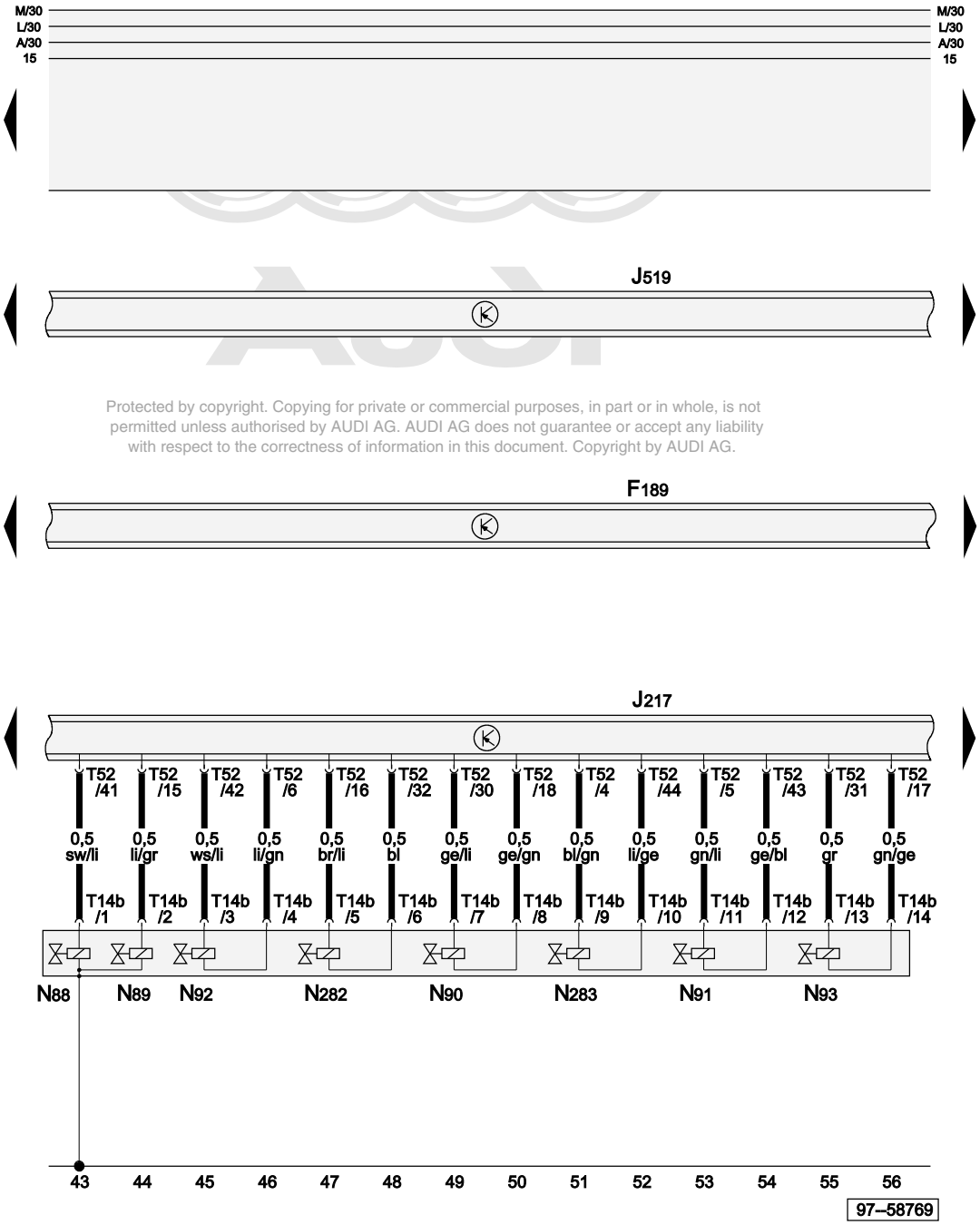


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Fuses on fuse holder, multifunction switch, Tiptronic switch

F125	Multifunction switch
F189	Tiptronic switch
J217	Automatic gearbox control unit
J519	Onboard supply control unit
SB40	Fuse 40 on fuse holder
SB53	Fuse 53 on fuse holder
SC10	Fuse 10 on fuse holder
SC18	Fuse 18 on fuse holder
T10n	10-pin connector, black, near longitudinal member, front left
T10o	10-pin connector, black (connector C)
T10p	10-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
T52	52-pin connector, black (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
B318	Positive connection 4 (30a), in main wiring harness

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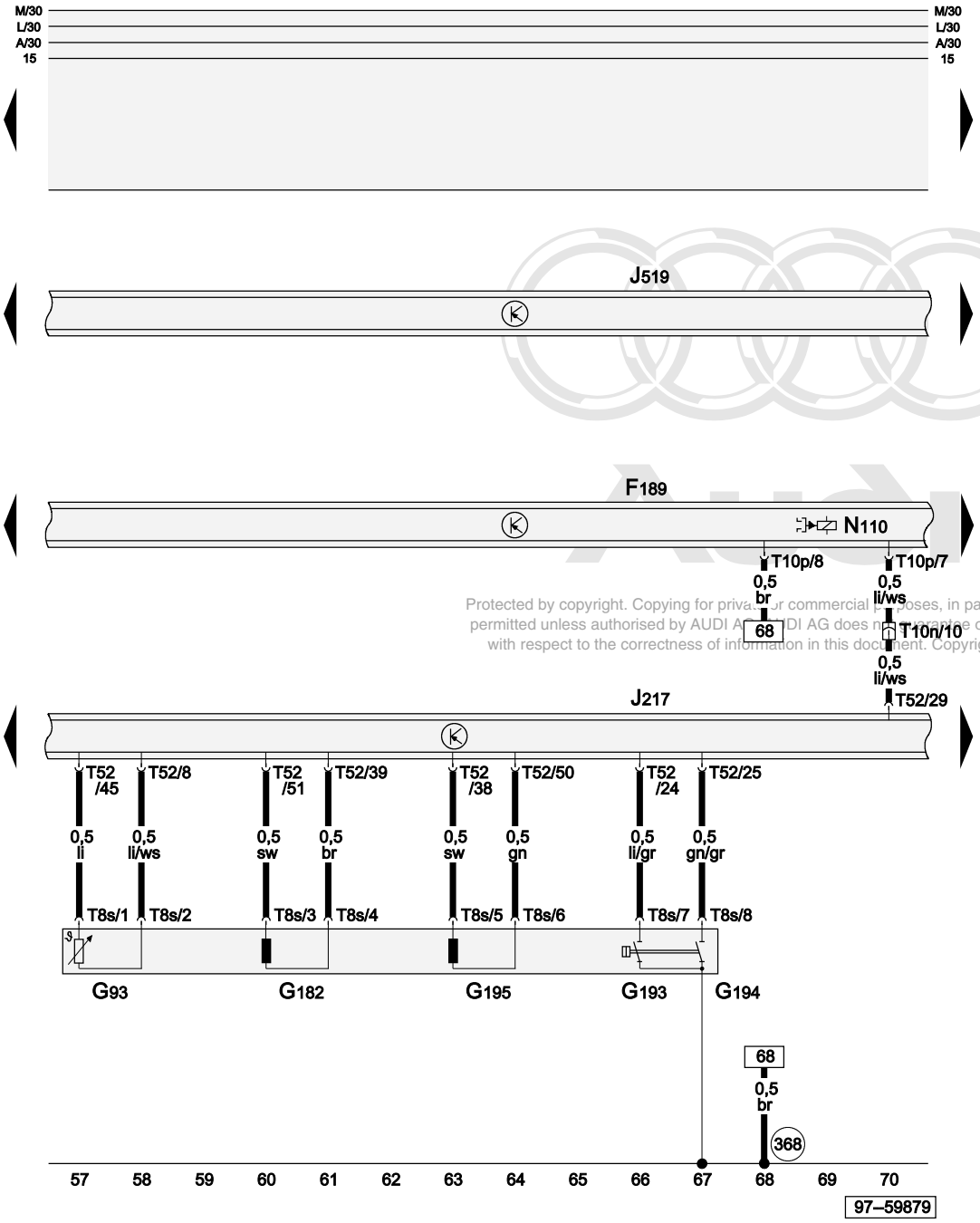


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Solenoid valves

F189	Tiptronic switch
J217	Automatic gearbox control unit
J519	Onboard supply control unit
N88	Solenoid valve 1
N89	Solenoid valve 2
N90	Solenoid valve 3
N91	Solenoid valve 4
N92	Solenoid valve 5
N93	Solenoid valve 6
N282	Solenoid valve 9
N283	Solenoid valve 10
T14b	14-pin connector, black (connector A)
T52	52-pin connector, black (connector A)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

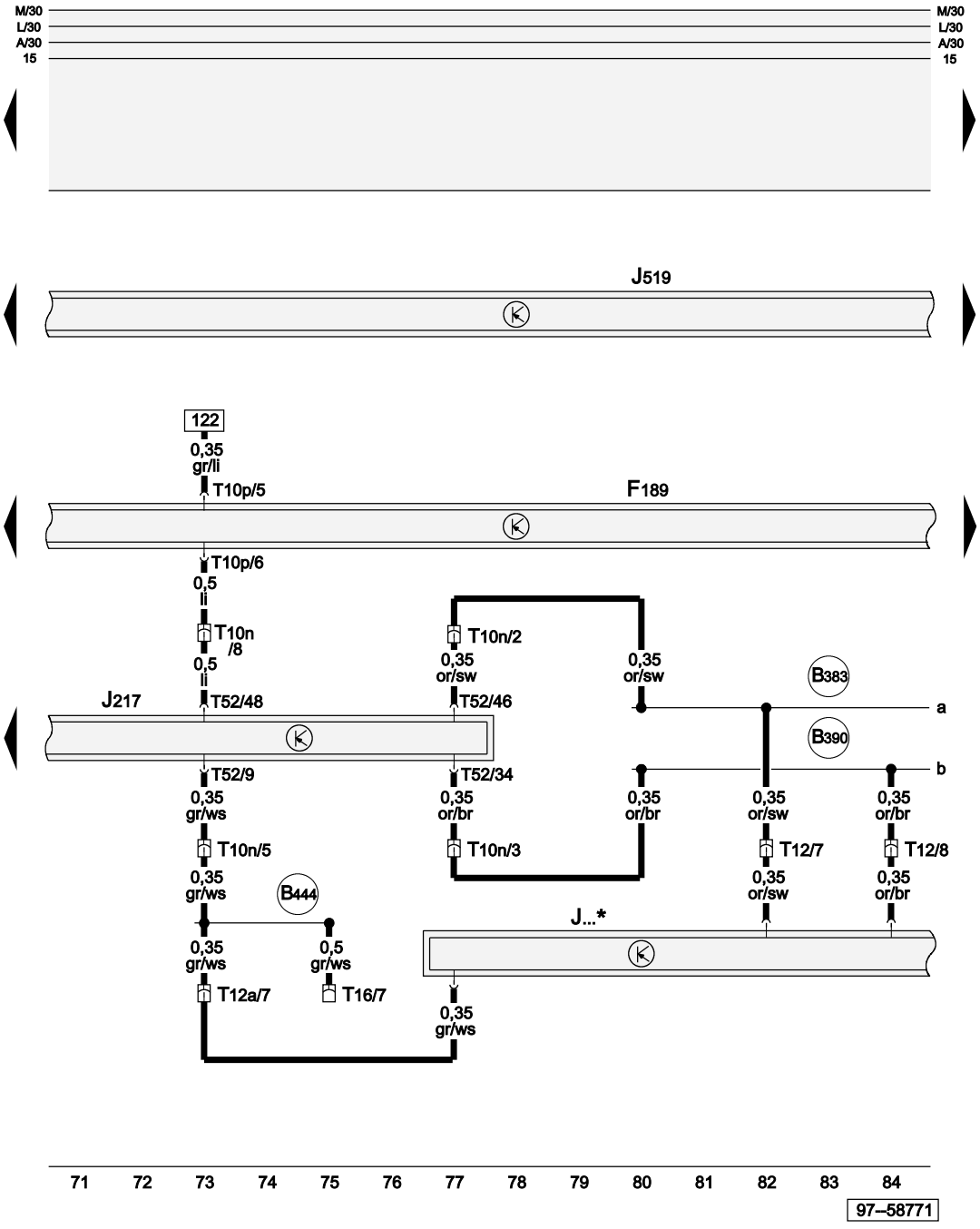


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Gearbox input speed sender, gearbox output speed sender, hydraulic pressure sender, gearbox oil temperature sender, selector lever lock solenoid

F189	Tiptronic switch
G93	Gearbox oil temperature sender
G182	Gearbox input speed sender
G193	Automatic gearbox hydraulic pressure sender 1
G194	Automatic gearbox hydraulic pressure sender 2
G195	Gearbox output speed sender
J217	Automatic gearbox control unit
J519	Onboard supply control unit
N110	Selector lever lock solenoid
T8s	8-pin connector, black (connector B)
T10n	10-pin connector, black, near longitudinal member, front left
T10p	10-pin connector, black (connector A)
T52	52-pin connector, black (connector A)
(368)	Earth connection 3, in main wiring harness

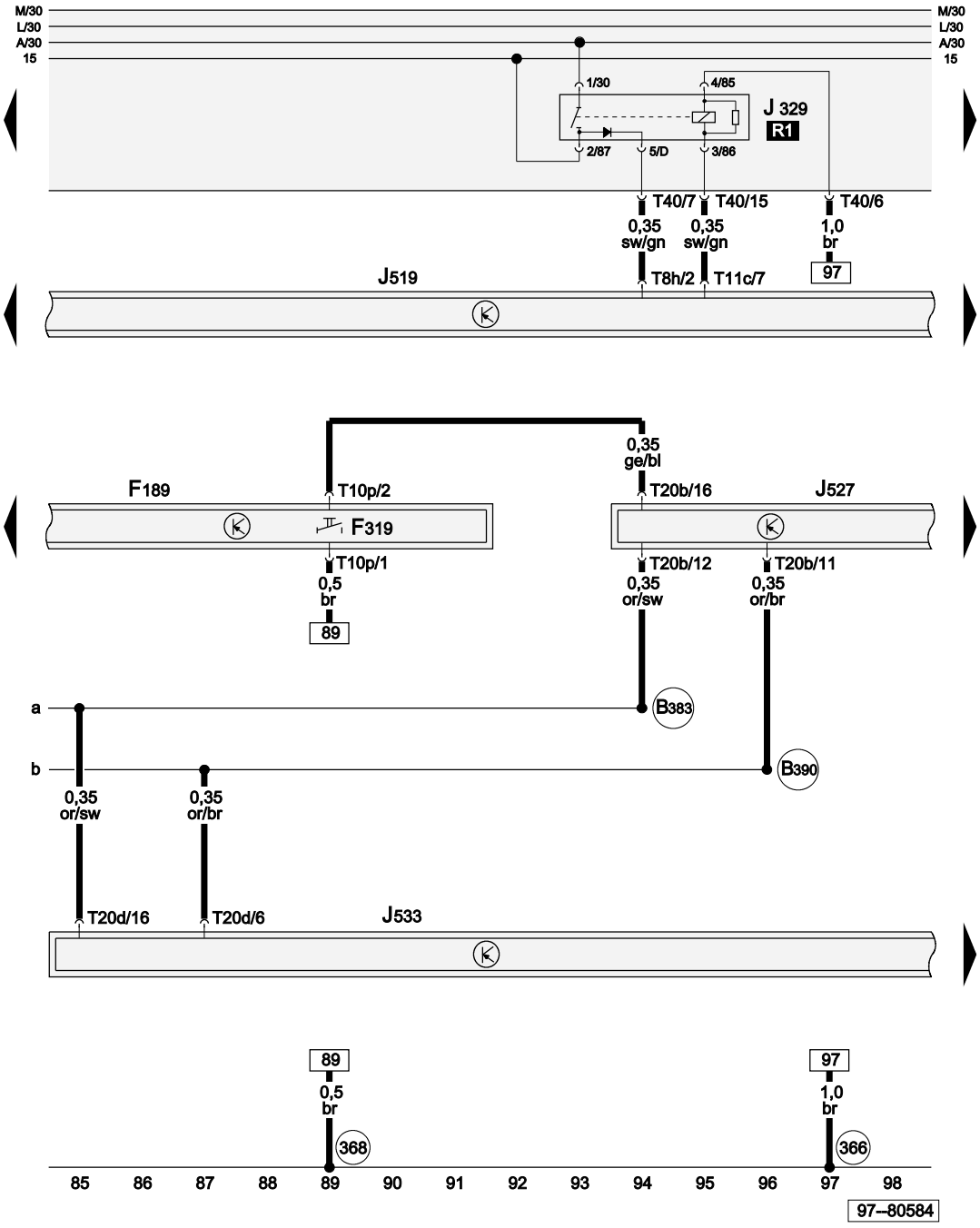


Drive train CAN bus, K-diagnosis wiring

F189	Tiptronic switch
J...	Engine control units
J217	Automatic gearbox control unit
J519	Onboard supply control unit
T10n	10-pin connector, black, near longitudinal member, front left
T10p	10-pin connector, black (connector A)
T12	12-pin connector, green, in plenum chamber
T12a	12-pin connector, blue, in plenum chamber
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T52	52-pin connector, black (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	⇒ Applicable engine Current Flow Diagram

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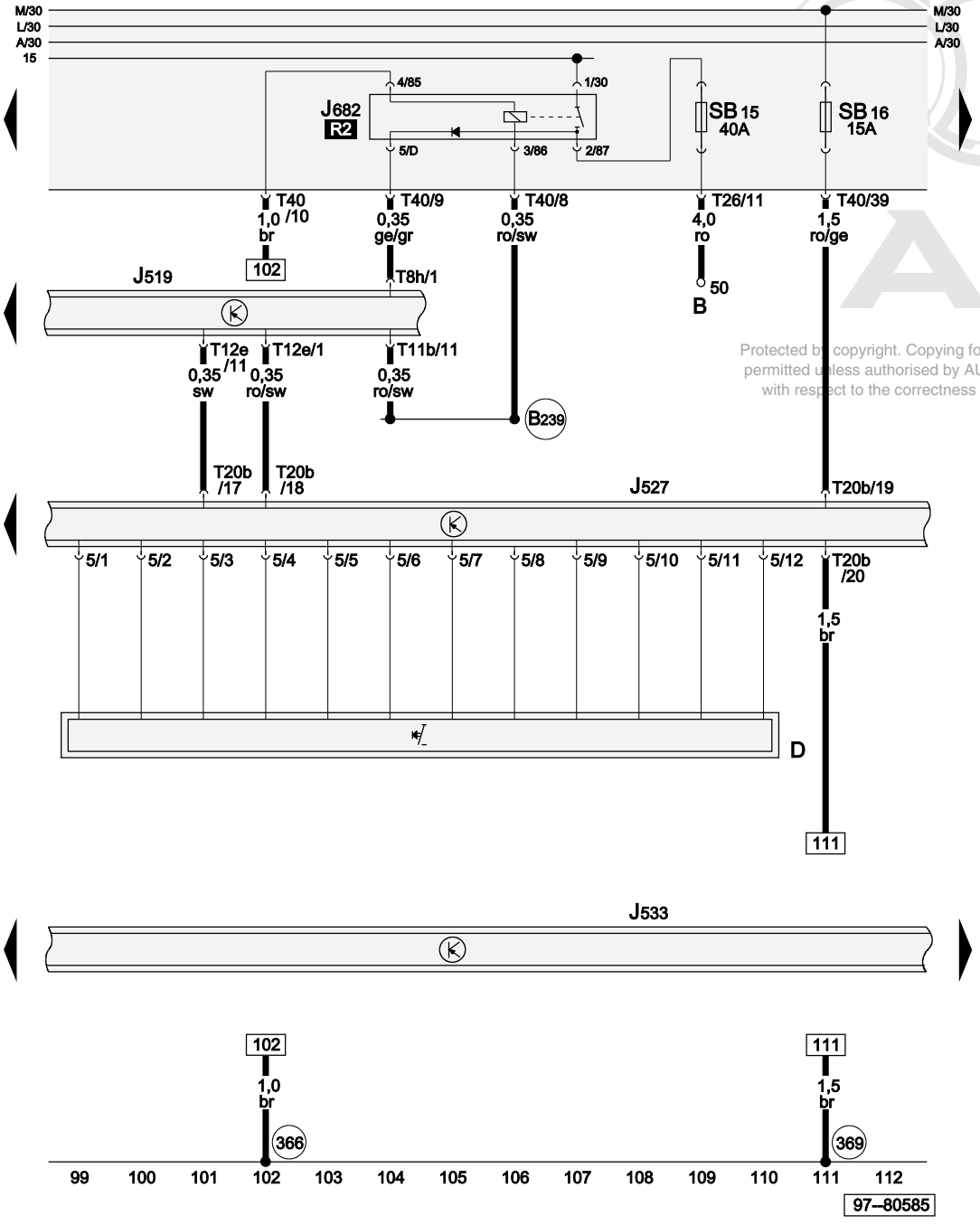


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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Selector lever locked in position P switch, terminal 15 voltage supply relay

F189	Tiptronic switch
F319	Selector lever locked in position P switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T8h	8-pin connector, black (connector F)
T10p	10-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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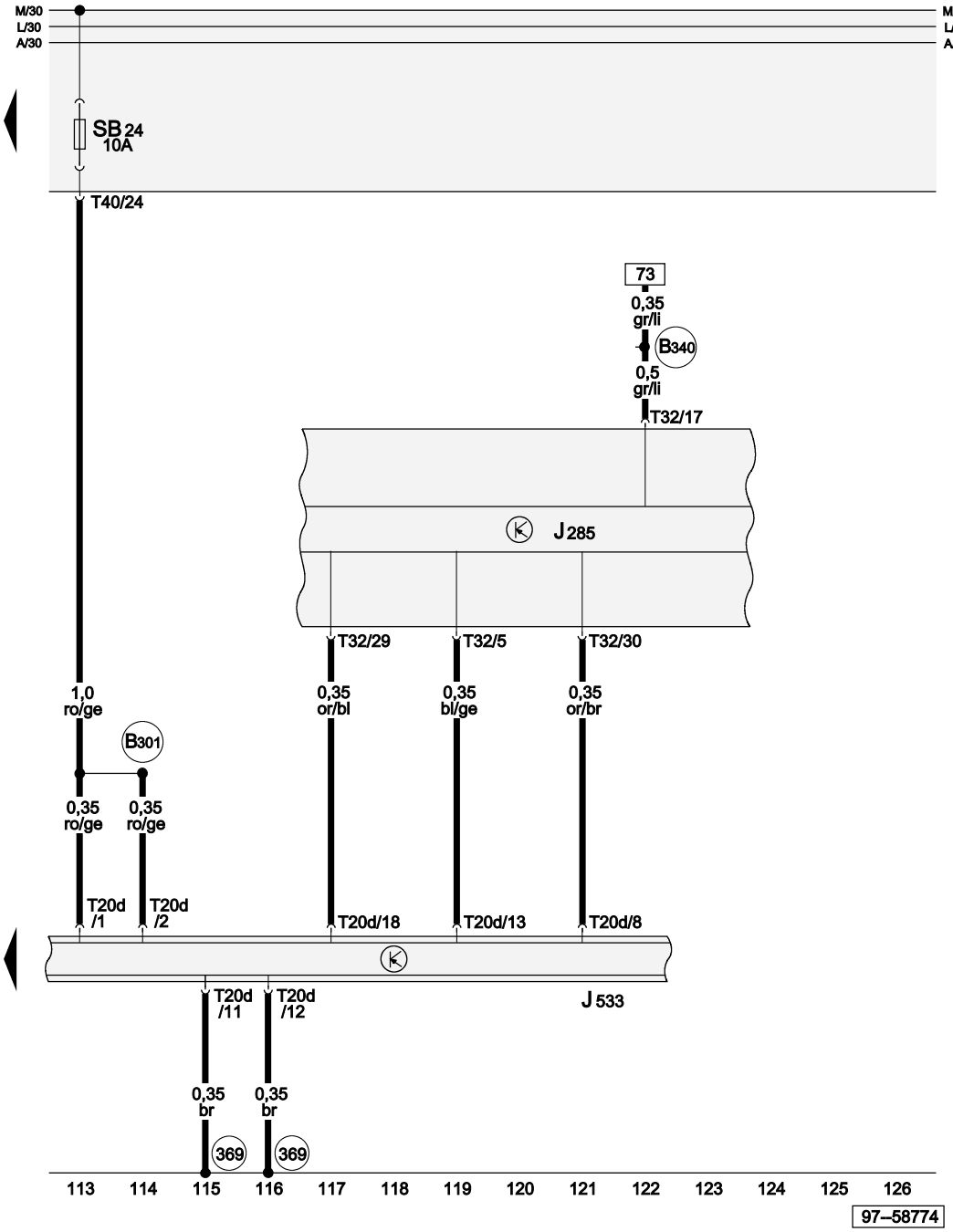


Terminal 50 voltage supply relay, ignition/starter switch

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Data bus diagnostic interface, control unit in dash panel insert

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B340	Connection 1 (58d), in main wiring harness

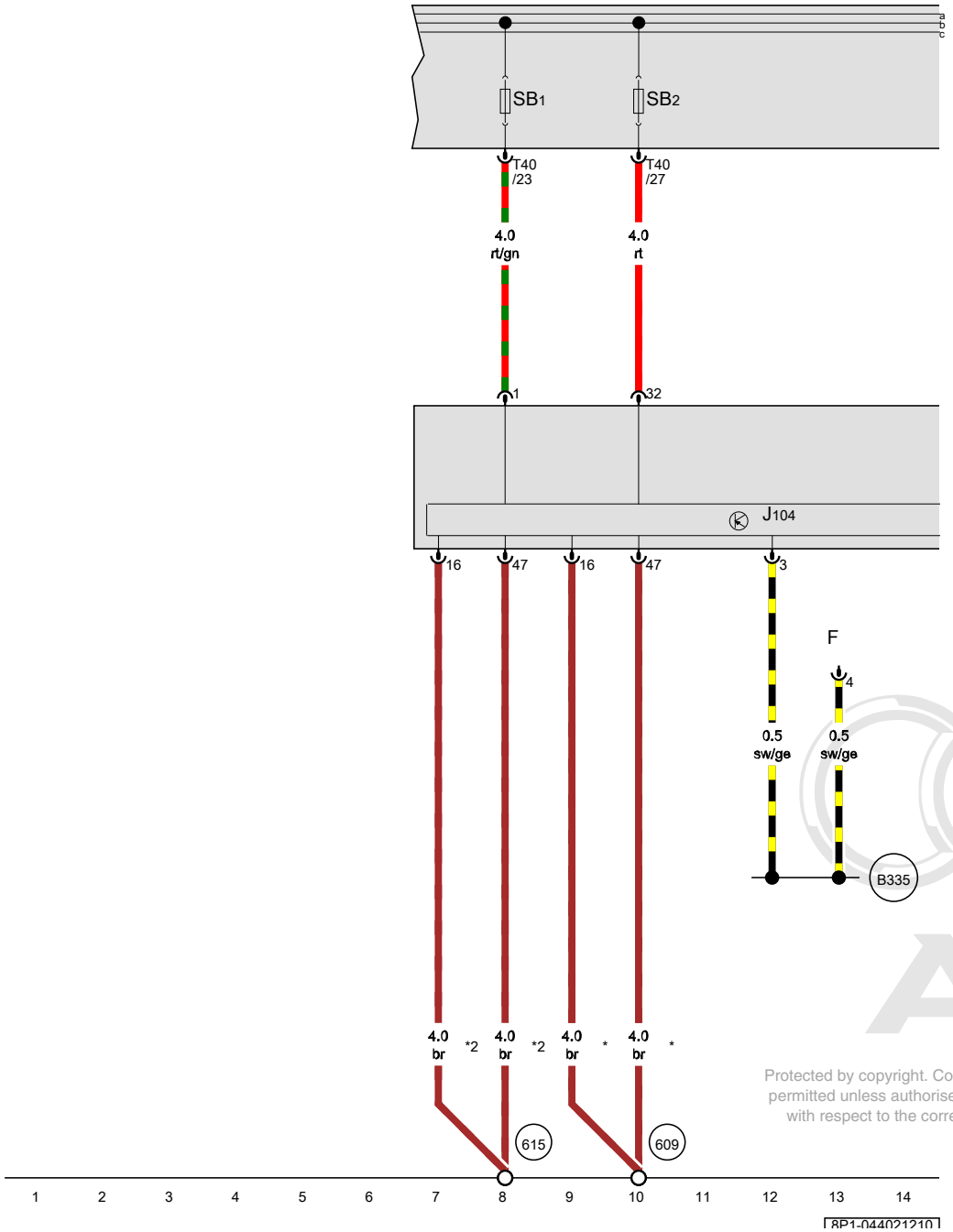
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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Anti-lock brake system (ABS) with electronic stabilisation program (ESP), traction control system (TCS) and hydraulic brake servo (HBS)

From May 2003

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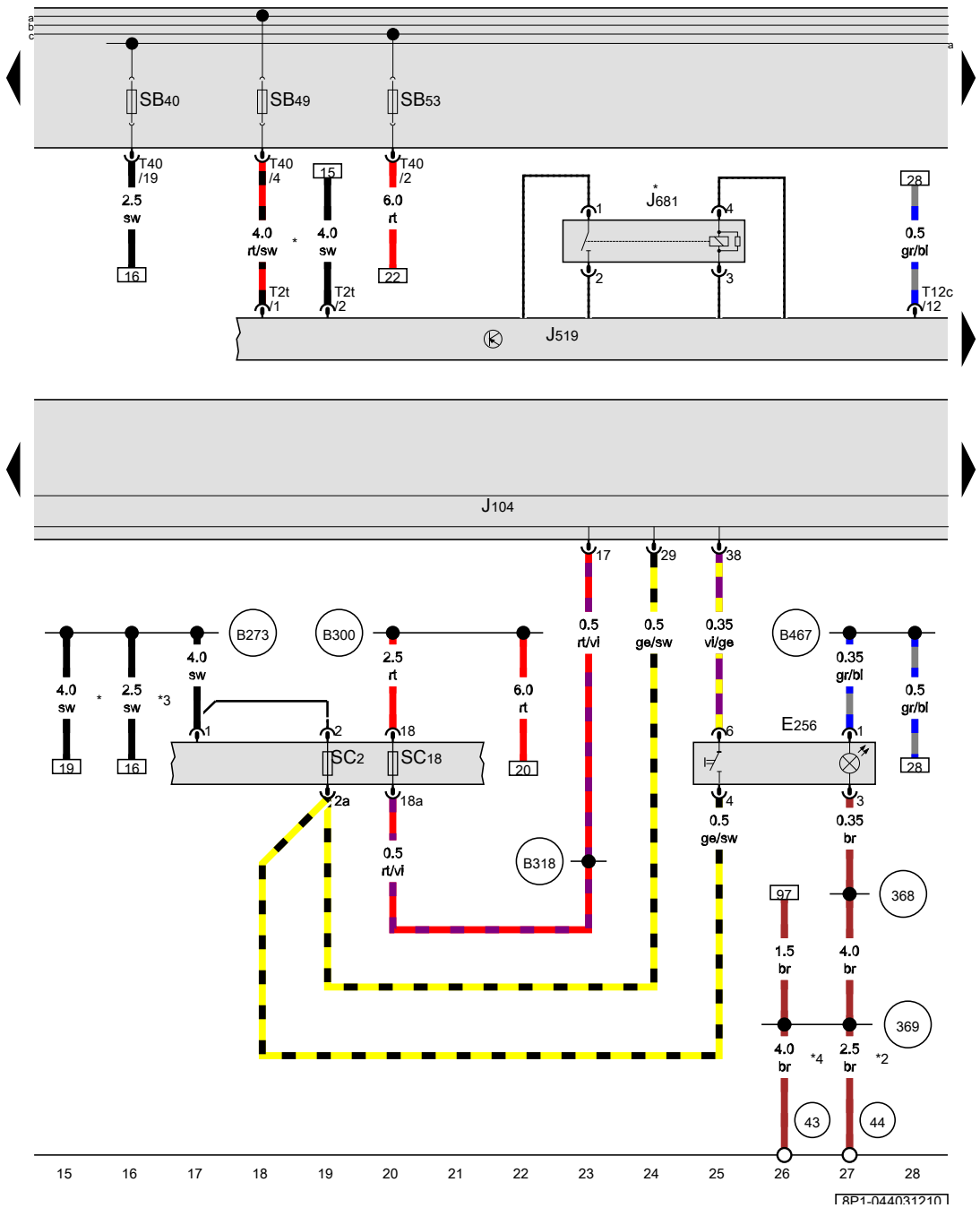


ABS control unit

F	Brake light switch
J104	ABS control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
T40	40-pin connector
609	Earth point, on right in plenum chamber
615	Earth point, on left suspension strut
B335	Connection 1 (54), in main wiring harness
*	Only left-hand drive models
*2	Only right-hand drive models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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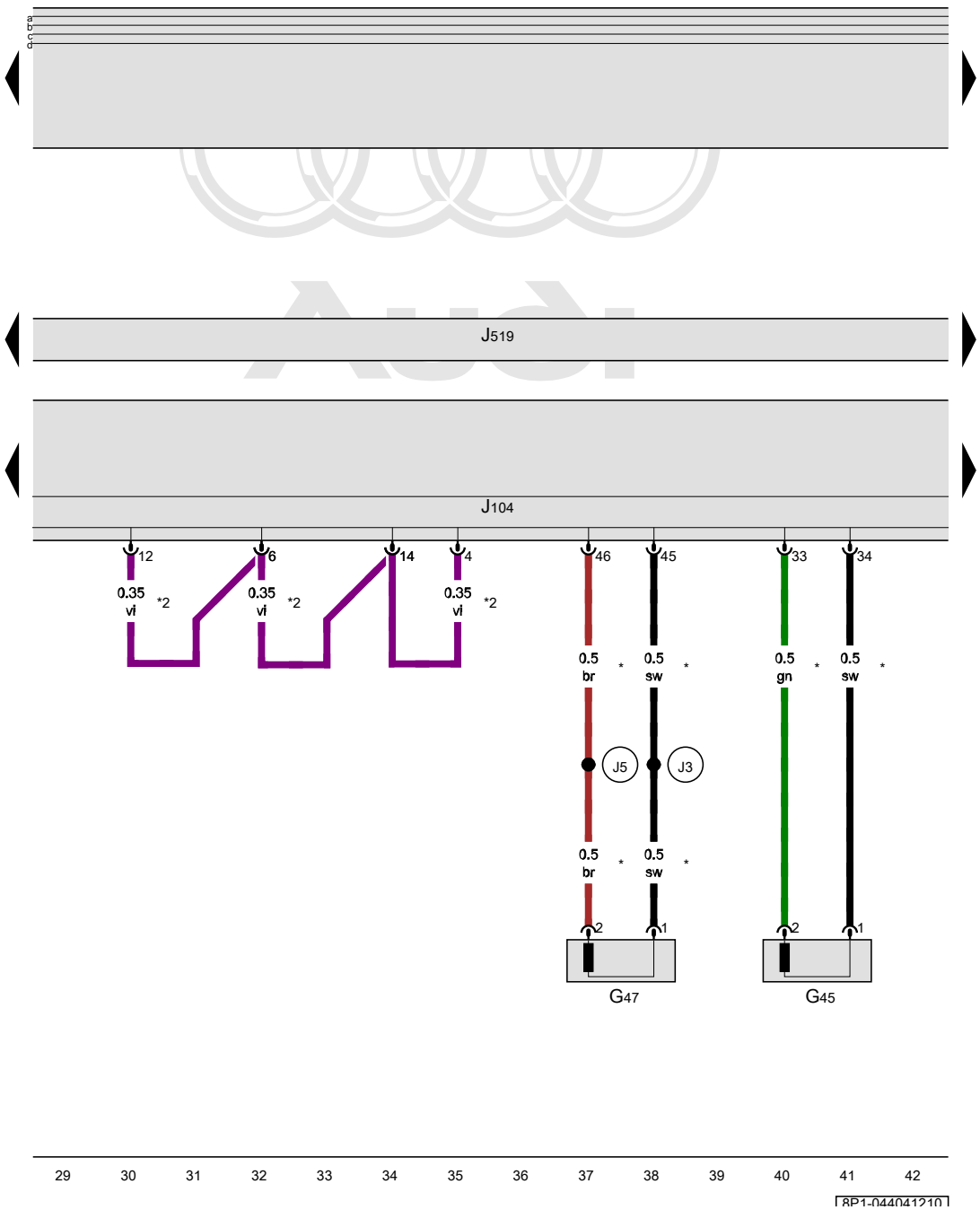


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

TCS and ESP button, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

E256	TCS and ESP button
J104	ABS control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SC2	Fuse 2 on fuse holder C
SC18	Fuse 18 on fuse holder C
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
T2t	2-pin connector
T12c	12-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
B273	Positive connection (15), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
B318	Positive connection 4 (30a) in main wiring harness
B467	Connection 3, in main wiring harness
*	Only models with battery in luggage compartment
*2	Only left-hand drive models
*3	Only models with battery in engine compartment
*4	Only right-hand drive models

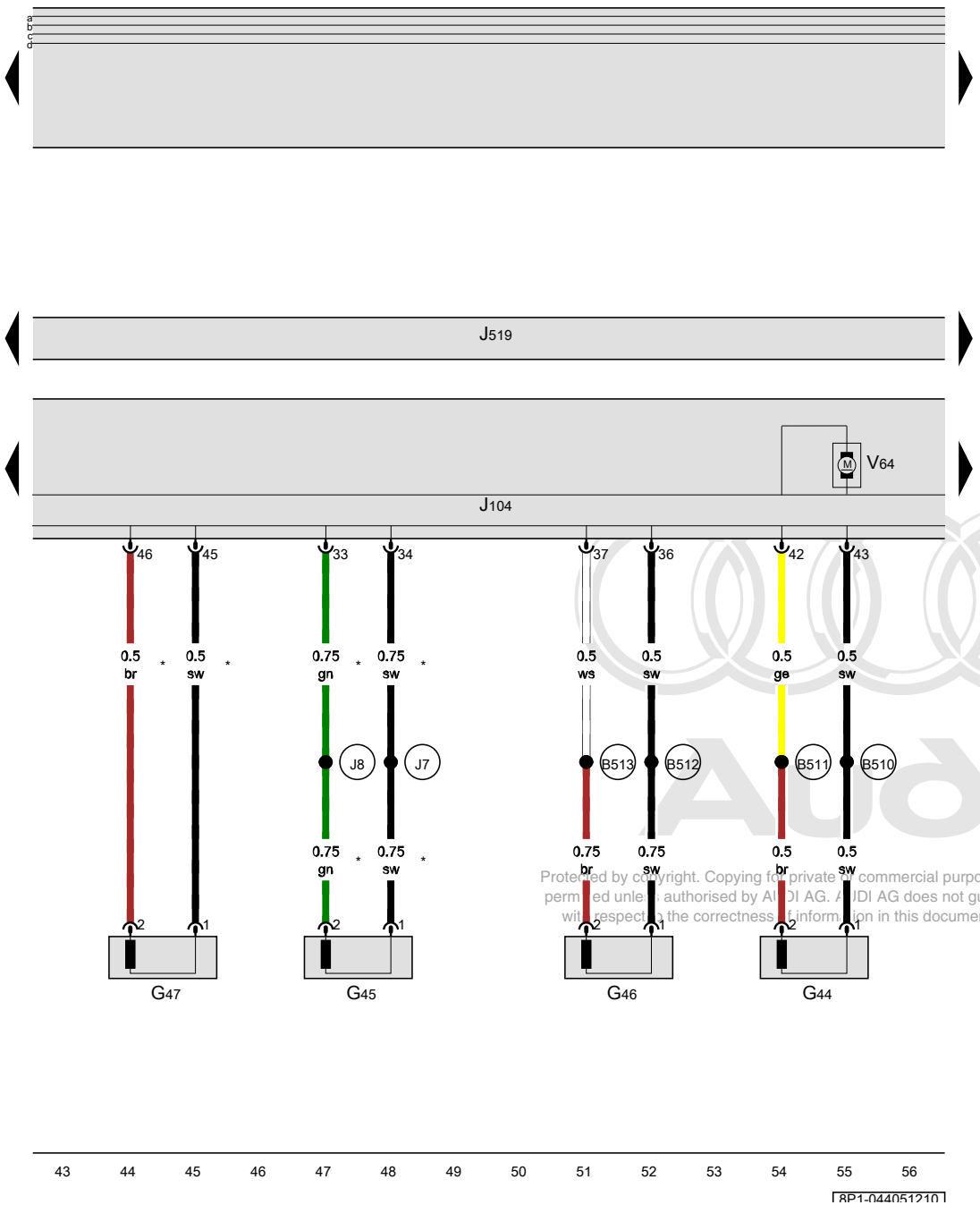
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Front right speed sensor, Front left speed sensor, ABS control unit, Onboard supply control unit

G45	Front right speed sensor
G47	Front left speed sensor
J104	ABS control unit
J519	Onboard supply control unit
J3	Connection 1, in ABS wiring harness
J5	Connection 2, in ABS wiring harness
*	Only left-hand drive models
*2	According to equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

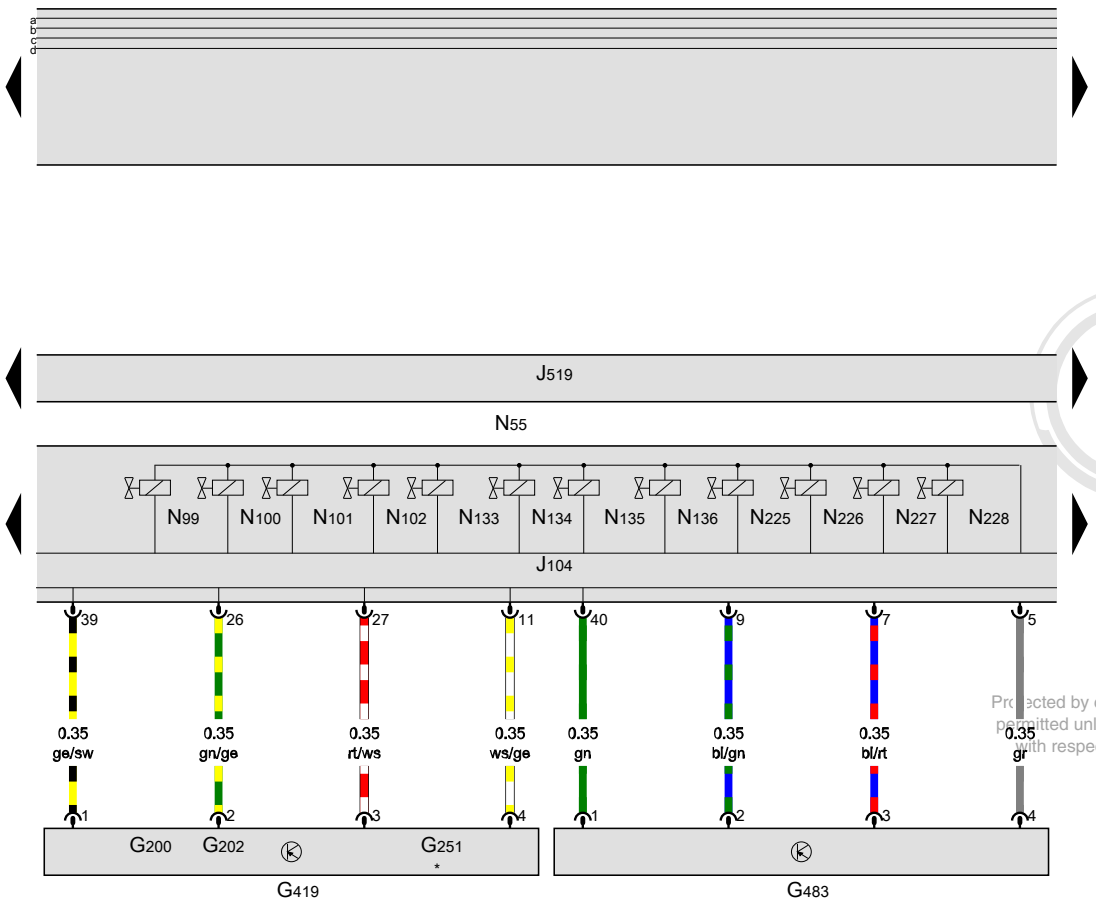


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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit, Onboard supply control unit

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
J519	Onboard supply control unit
V64	ABS hydraulic pump
B510	Connection 1 (rear right speed sensor), in interior wiring harness
B511	Connection 2 (rear right speed sensor), in interior wiring harness
B512	Connection 1 (rear left speed sensor), in interior wiring harness
B513	Connection 2 (rear left speed sensor), in interior wiring harness
J7	Connection 3, in ABS wiring harness
J8	Connection 4, in ABS wiring harness
*	Only right-hand drive models

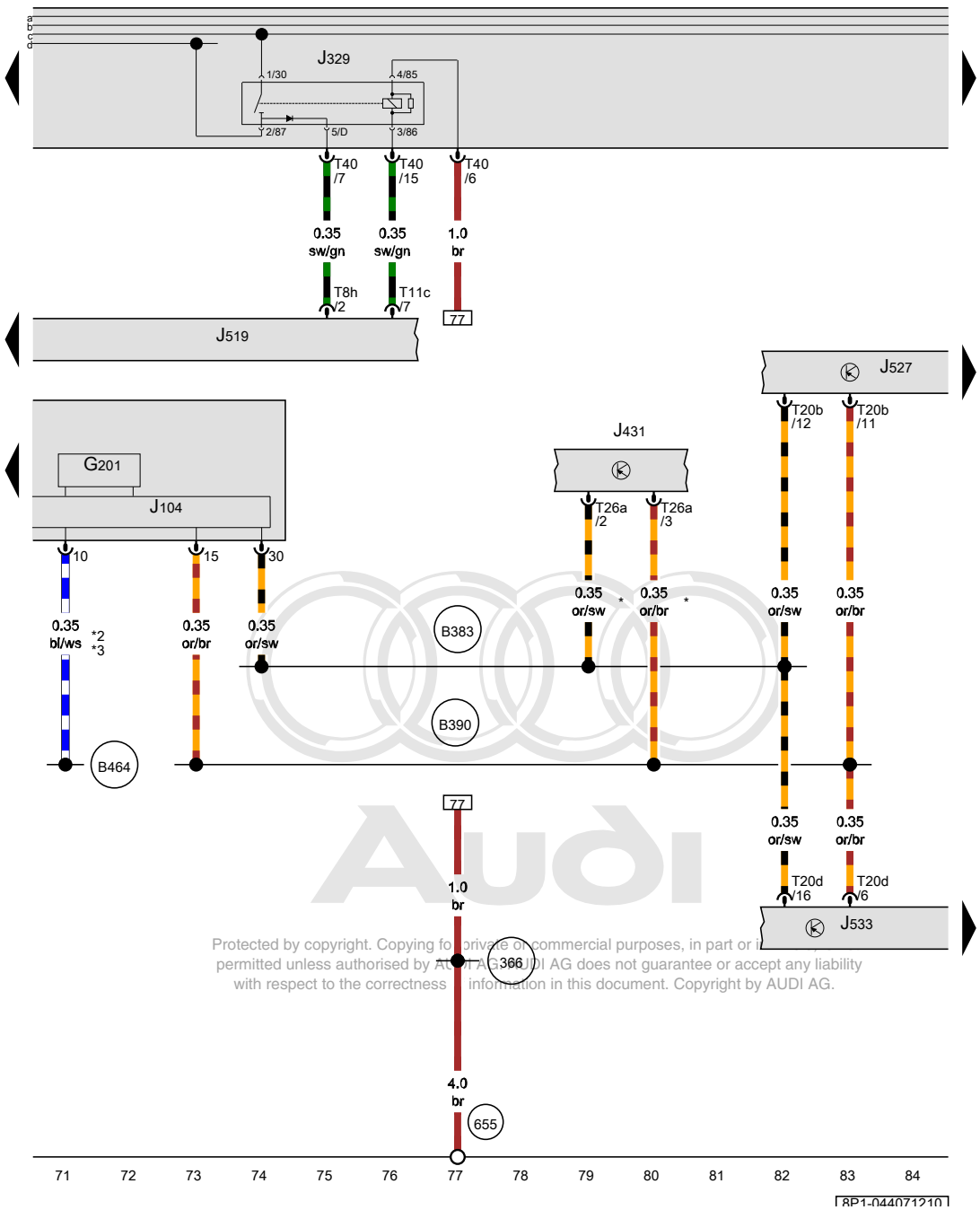


ESP sensor unit, Brake servo vacuum sender, ABS control unit, Onboard supply control unit, ABS hydraulic unit

G200	Lateral acceleration sender
G202	Yaw rate sender
G251	Longitudinal acceleration sender
G419	ESP sensor unit
G483	Brake servo vacuum sender
J104	ABS control unit
J519	Onboard supply control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N225	Vehicle stabilization program switch valve 1
N226	Vehicle stabilization program switch valve 2
N227	Vehicle stabilization program high-pressure valve 1
N228	Vehicle stabilization program high-pressure valve 2
*	Only models with all-wheel drive

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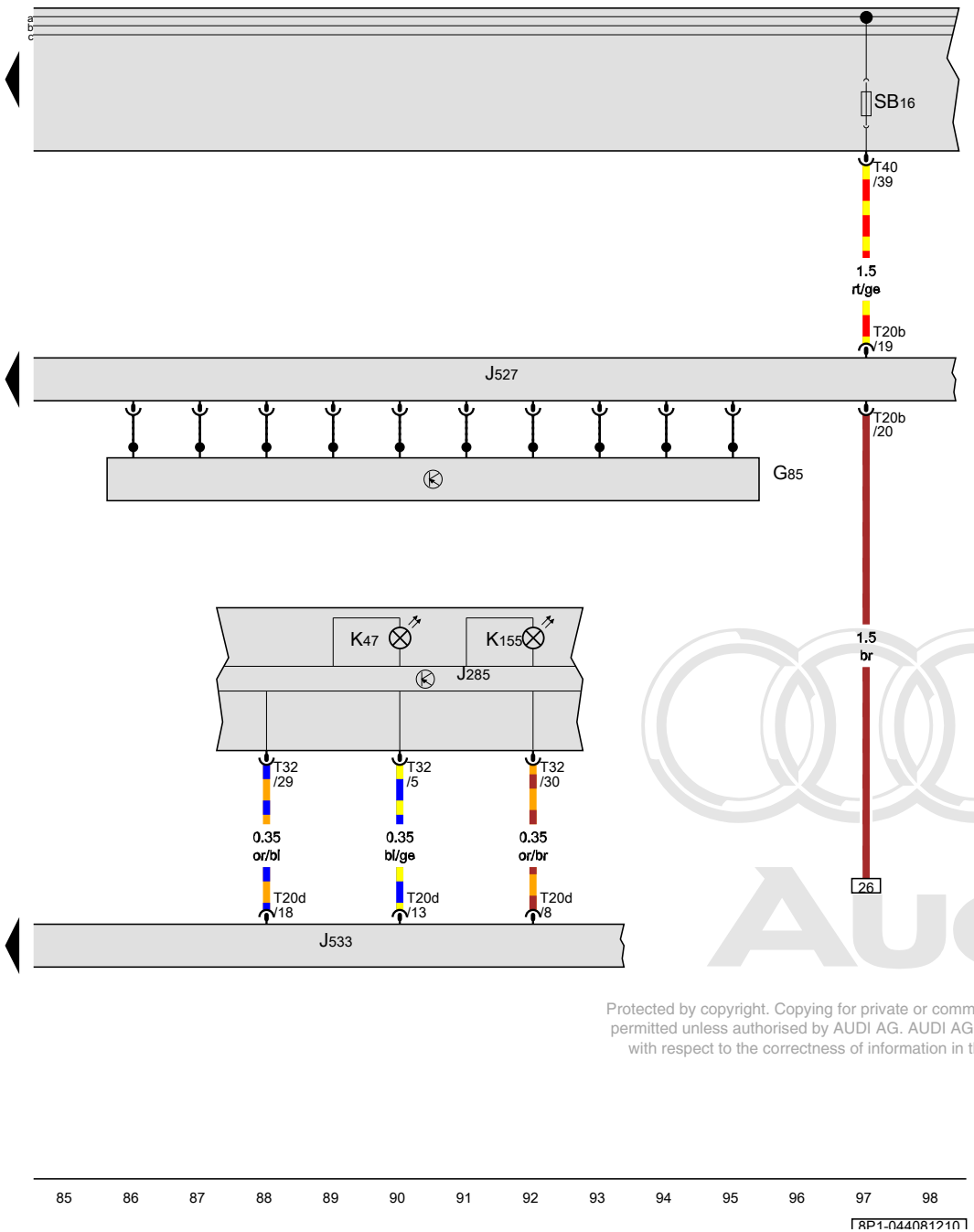


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Brake pressure sender 1, ABS control unit, Headlight range control unit, Onboard supply control unit, Steering column electronics control unit, Data bus diagnostic interface

G201	Brake pressure sender 1
J104	ABS control unit
J329	Terminal 15 voltage supply relay
J431	Headlight range control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T8h	8-pin connector
T11c	11-pin connector
T20b	20-pin connector
T20d	20-pin connector
T26a	26-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	According to equipment
*2	Only models with navigation system
*3	see applicable current flow diagram

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Steering angle sender, Control unit in dash panel insert, Steering column electronics control unit, Data bus diagnostic interface, ABS warning lamp, ESP and TCS warning lamp

G85	Steering angle sender
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K47	ABS warning lamp
K155	ESP and TCS warning lamp
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector

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Battery in luggage compartment (3-door models)

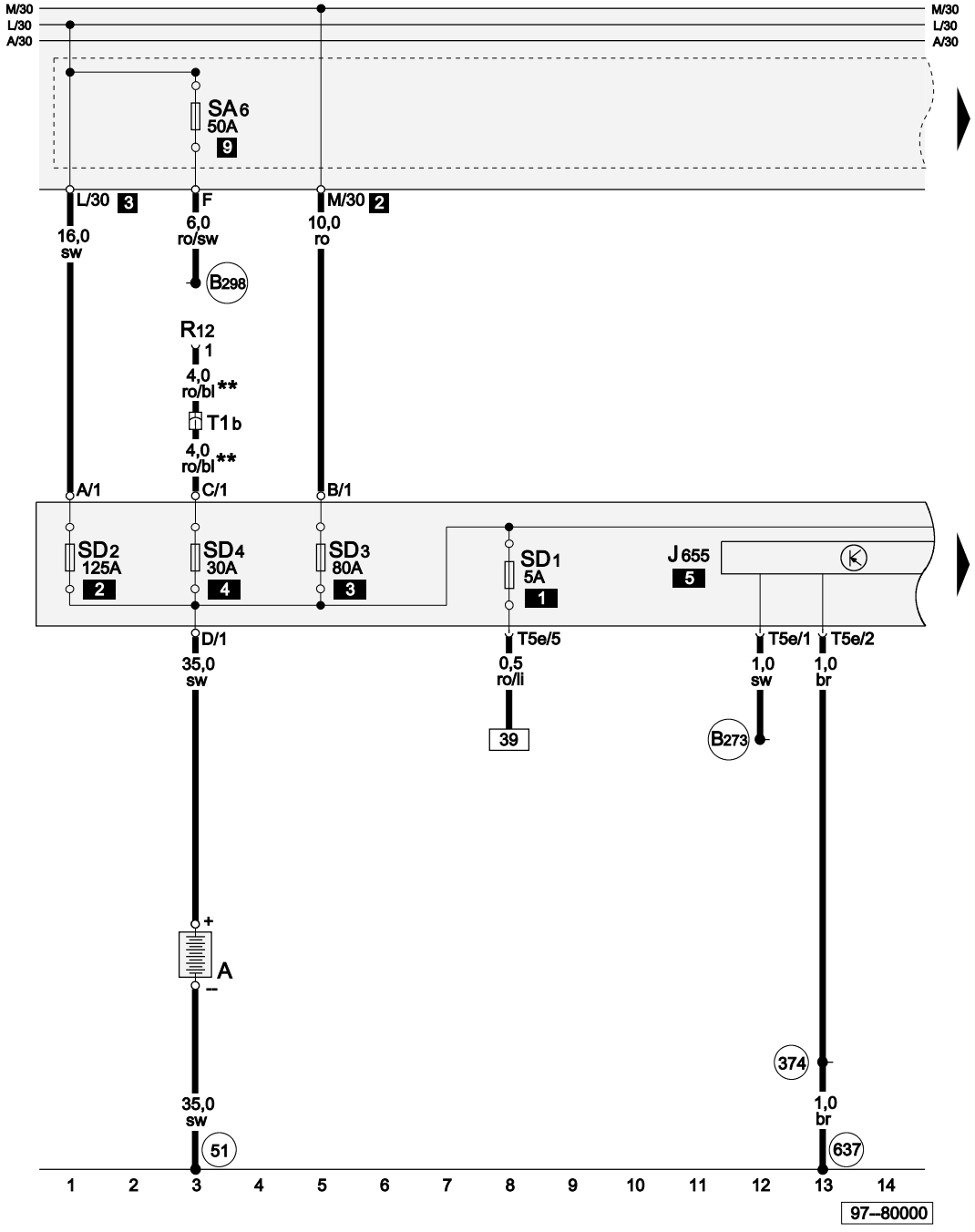
⇒ **3.2 l fuel injection engine (184 kW - Motronic - 6 cylinder), engine code BDB, BMJ**
from model year 2005

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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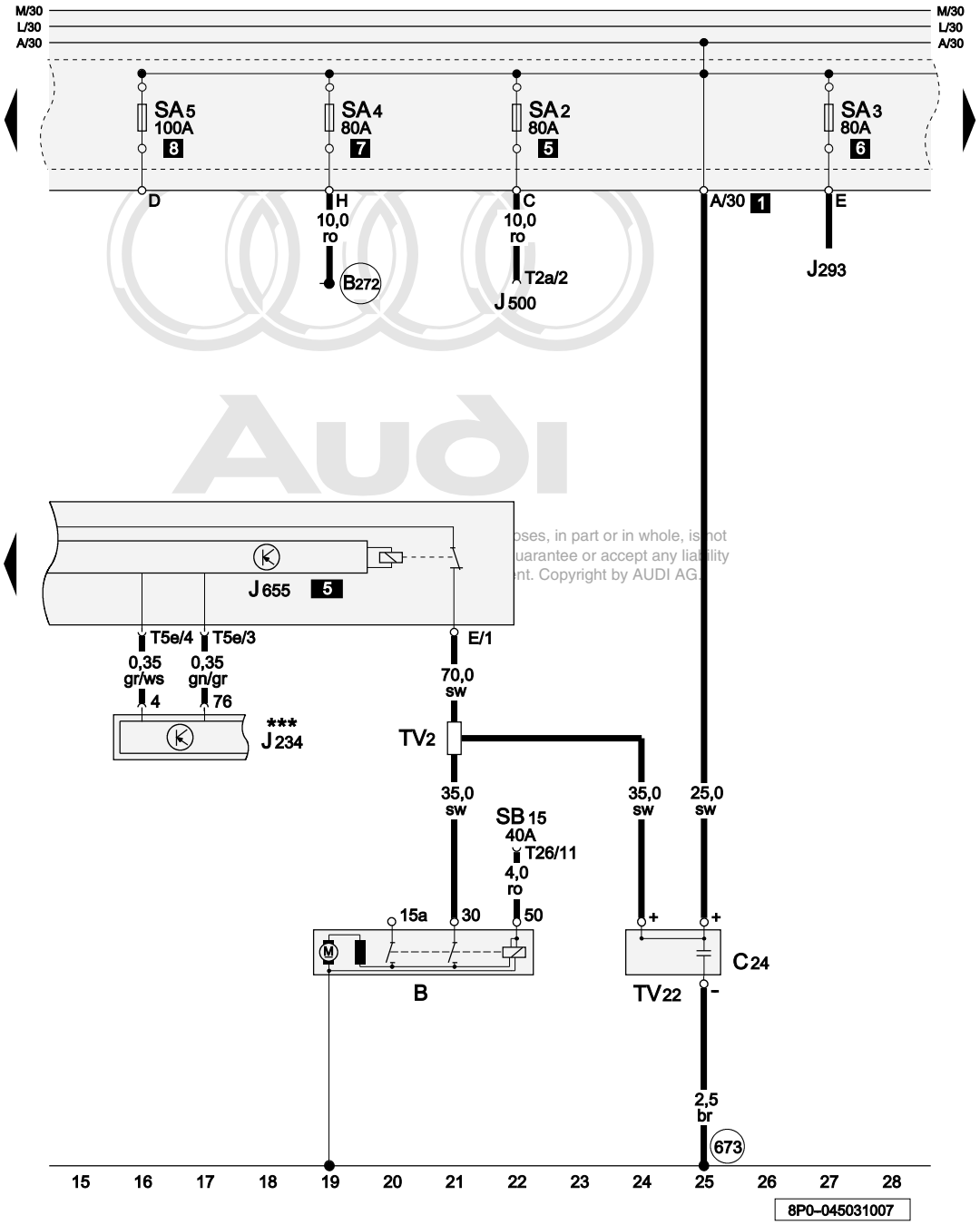


Battery

A	Battery
J655	Battery cut-off relay
R12	Amplifier
SA6	Fuse 6 on fuse holder on battery
SD1	Fuse 1 on fuse holder
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
SD4	Fuse 4 on fuse holder
T1b	1-pin connector, black, on left C-pillar
T5e	5-pin connector, yellow, on main fuse box
51	Earth point, on right in luggage compartment
374	Earth connection 9, in main wiring harness
637	Earth point, airbag control unit
B273	Positive connection (15), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
**	for models with Bose sound system only

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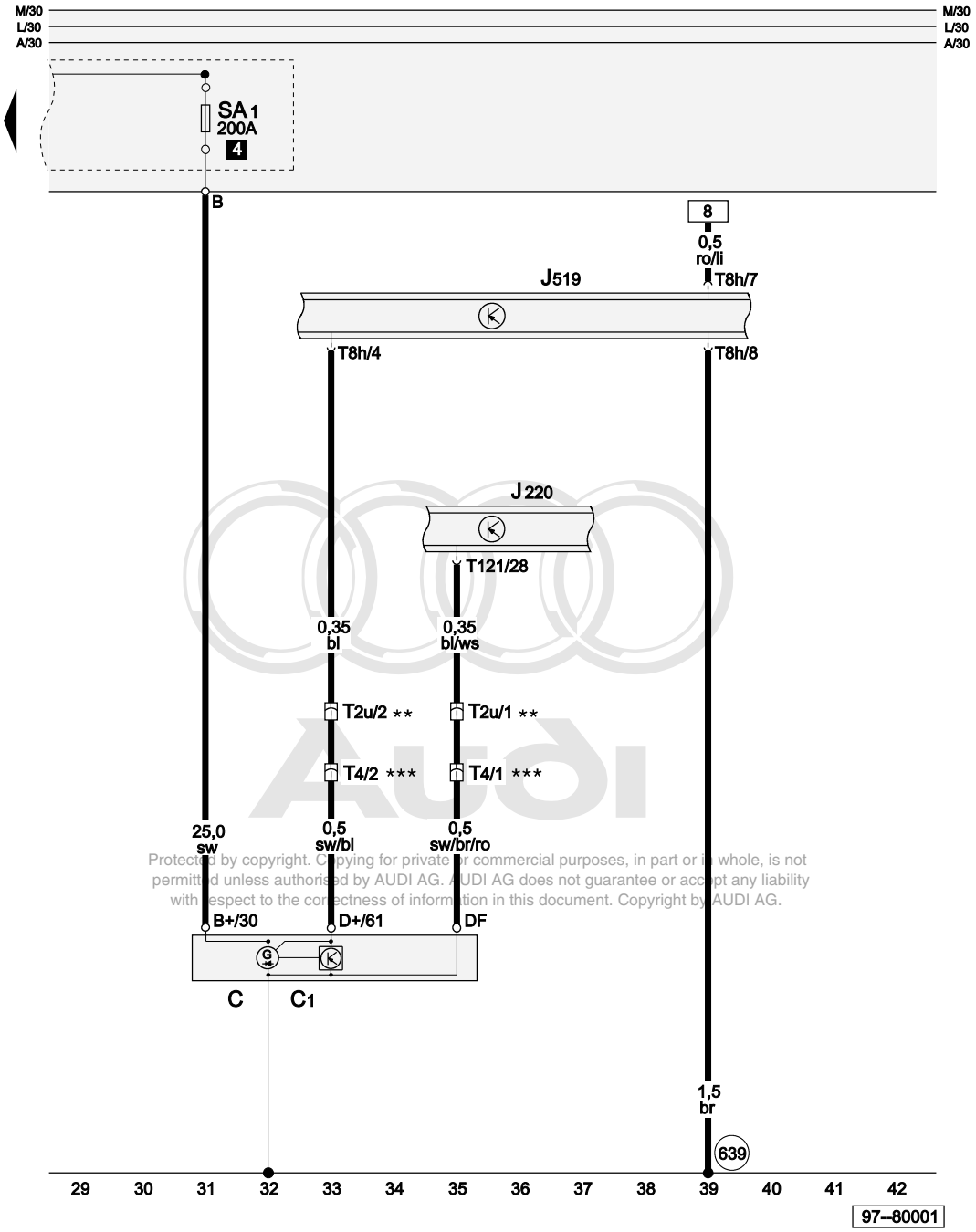


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Starter, suppression filter, battery cut-off relay

B	Starter
C24	Suppression filter
J234	Airbag control unit
J293	Radiator fan control unit
J500	Power steering control unit
J655	Battery cut-off relay
SA2	Fuse 2 on fuse holder on battery
SA3	Fuse 3 on fuse holder on battery
SA4	Fuse 4 on fuse holder on battery
SA5	Fuse 5 on fuse holder on battery
SB15	Fuse 15 on fuse holder
T2a	2-pin connector, black (connector A)
T5e	5-pin connector, yellow, on main fuse box
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
B272	Positive connection (30), in main wiring harness
***	⇒ applicable Current Flow Diagram: airbag

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



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Alternator

C	Alternator
C1	Voltage regulator
J220	Motronic control unit
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder on battery
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T121	121-pin connector, black, on engine control unit
(639)	Earth point, left A-pillar
**	for models without air conditioning system only
***	for models with air conditioning system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Battery in luggage compartment (5-door models)

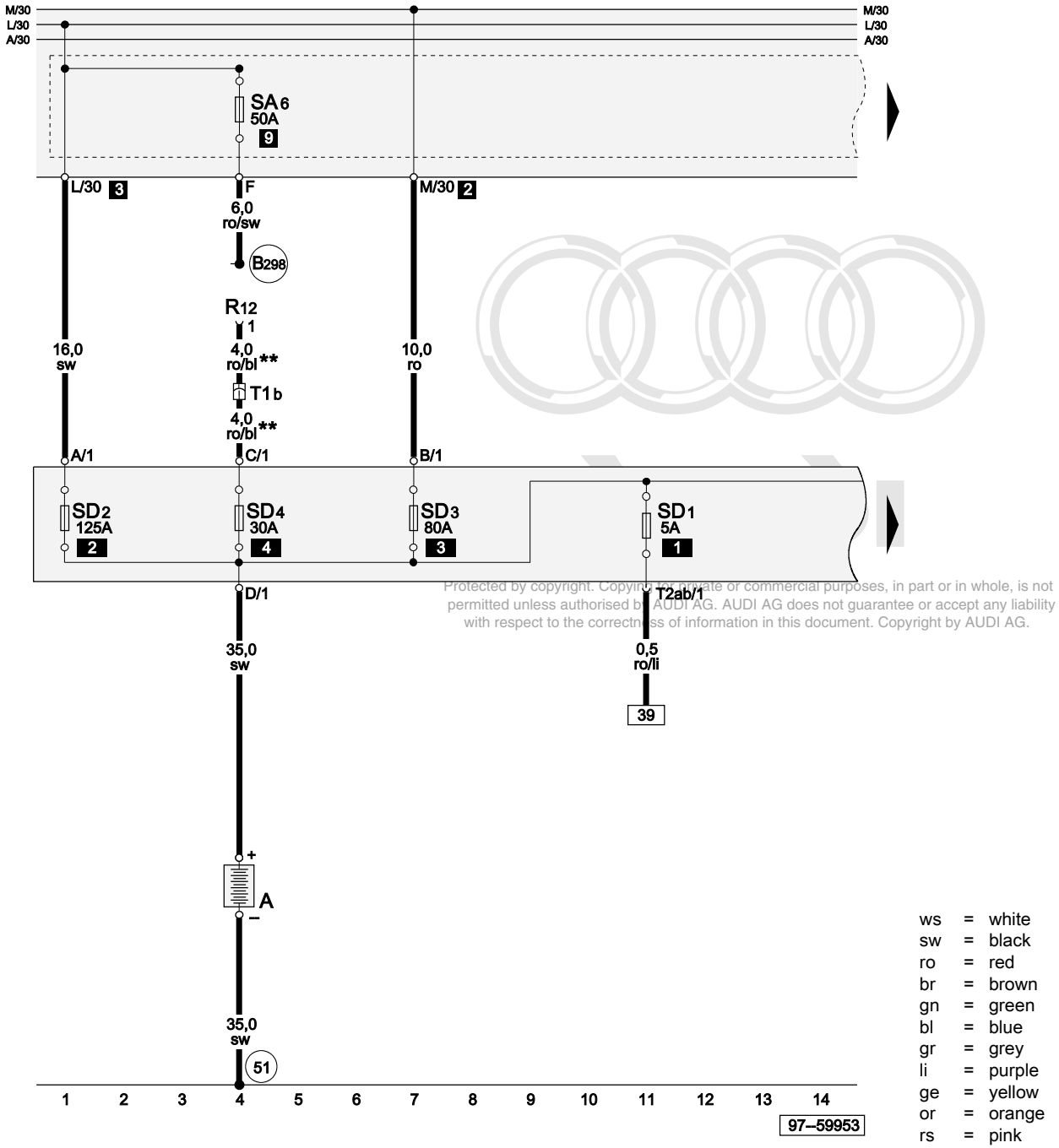
⇒ **3.2 l Fuel injection engine (184 kW - Motronic - 6 cylinder), engine code BDB, BMJ**
from model year 2005

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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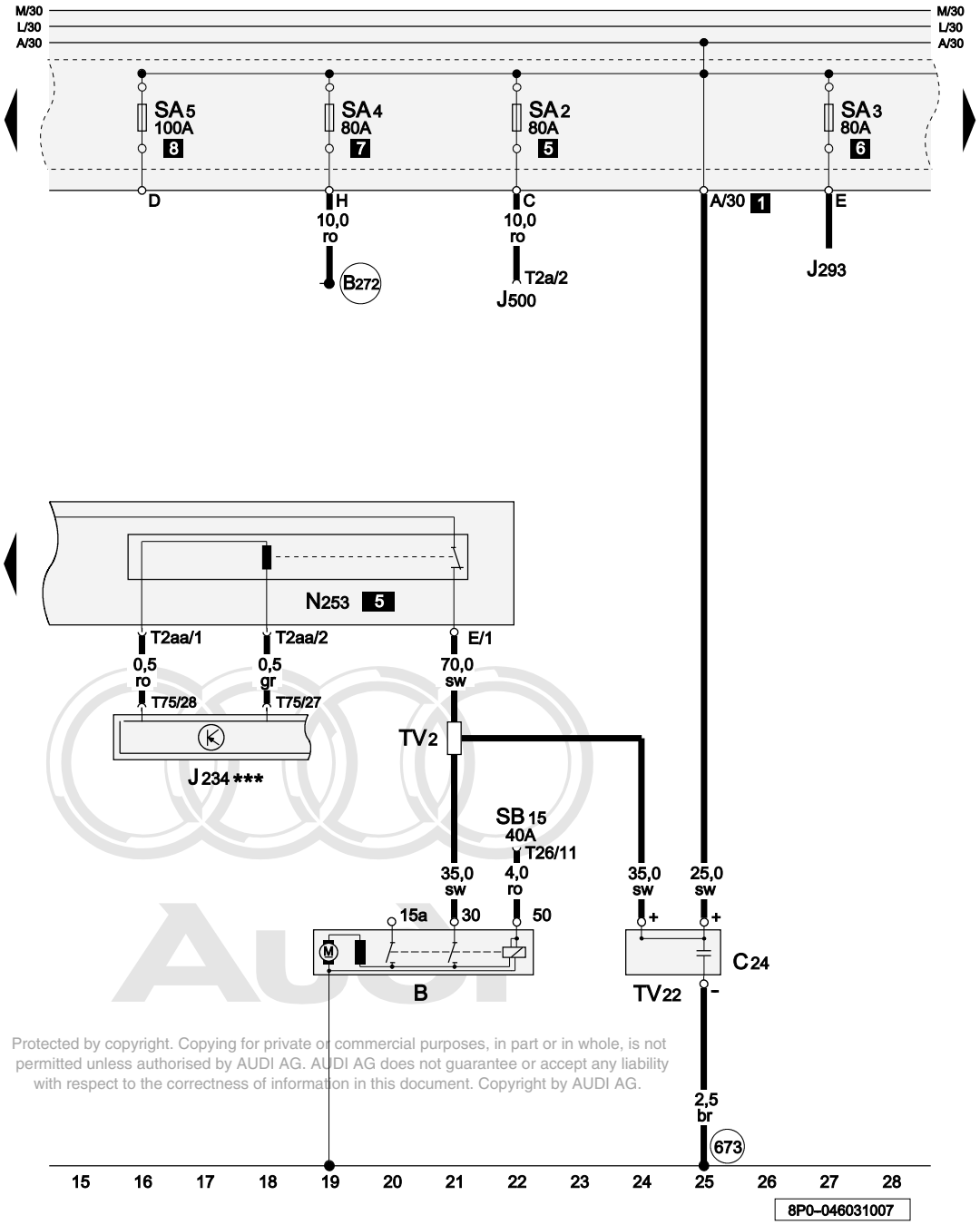


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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Battery

A	Battery
R12	Amplifier
SA6	Fuse 6 on fuse holder on battery
SD1	Fuse 1 on fuse holder
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
SD4	Fuse 4 on fuse holder
T1b	1-pin connector, black, on left C-pillar
T2ab	2-pin connector, black
51	Earth point, on right in luggage compartment
B298	Positive connection 2 (30), in main wiring harness
**	for models with Bose sound system only

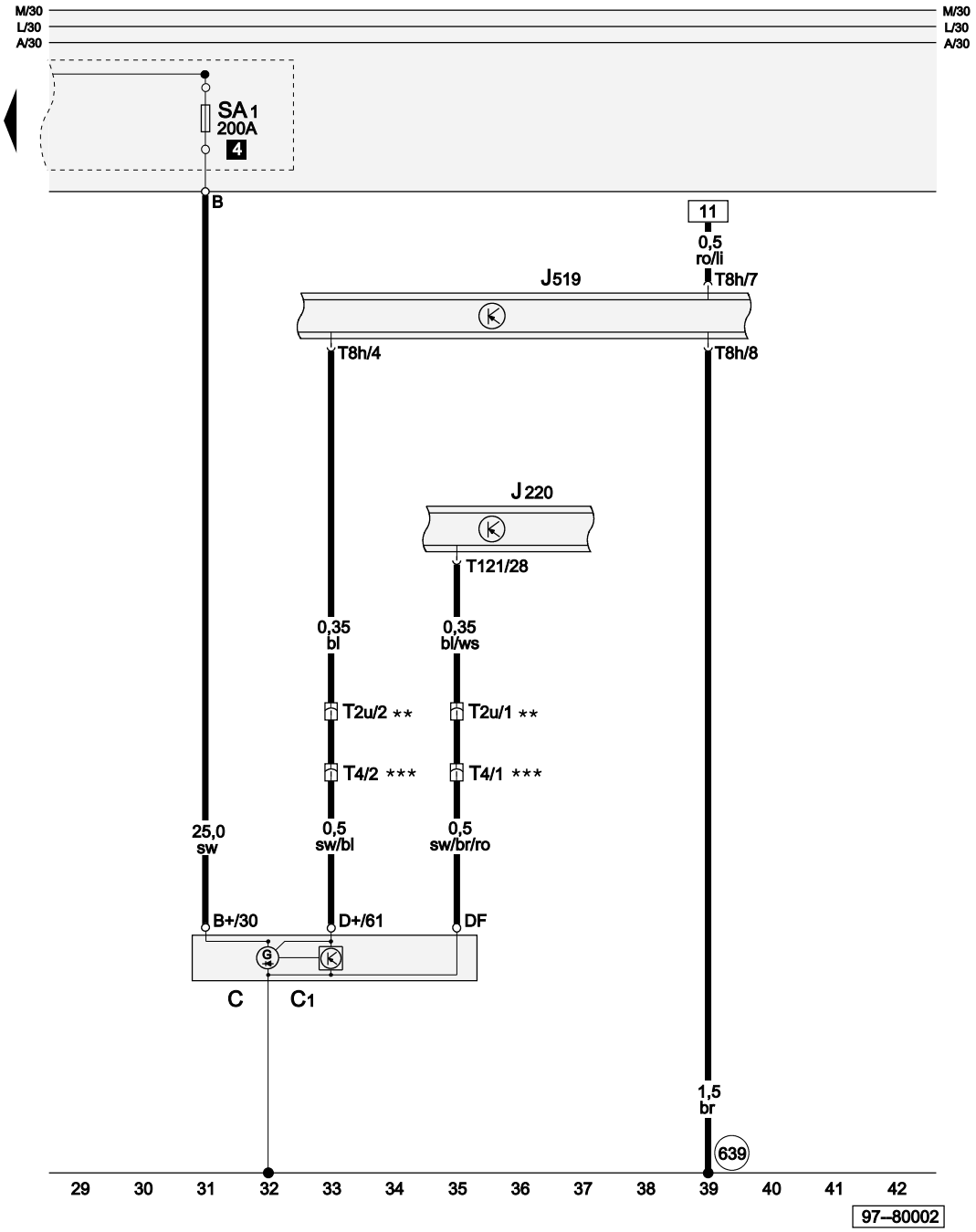


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Starter, battery isolation igniter

B	Starter
C24	Suppression filter
J234	Airbag control unit
J293	Radiator fan control unit
J500	Power steering control unit
N253	Battery isolation igniter
SA2	Fuse 2 on fuse holder on battery
SA3	Fuse 3 on fuse holder on battery
SA4	Fuse 4 on fuse holder on battery
SA5	Fuse 5 on fuse holder on battery
SB15	Fuse 15 on fuse holder
T2a	2-pin connector, black (connector A)
T2aa	2-pin connector, purple (connector locking yellow)
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T75	75-pin connector, yellow (connector locking green)
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
673	Earth point 3, on front of left longitudinal member
B272	Positive connection (30), in main wiring harness
***	⇒ applicable Current Flow Diagram: airbag

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Alternator

C	Alternator
C1	Voltage regulator
J220	Motronic control unit
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder on battery
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T121	121-pin connector, black, on engine control unit
(639)	Earth point, left A-pillar
**	for models without air conditioning system only
***	for models with air conditioning system only

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bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

Battery in engine compartment

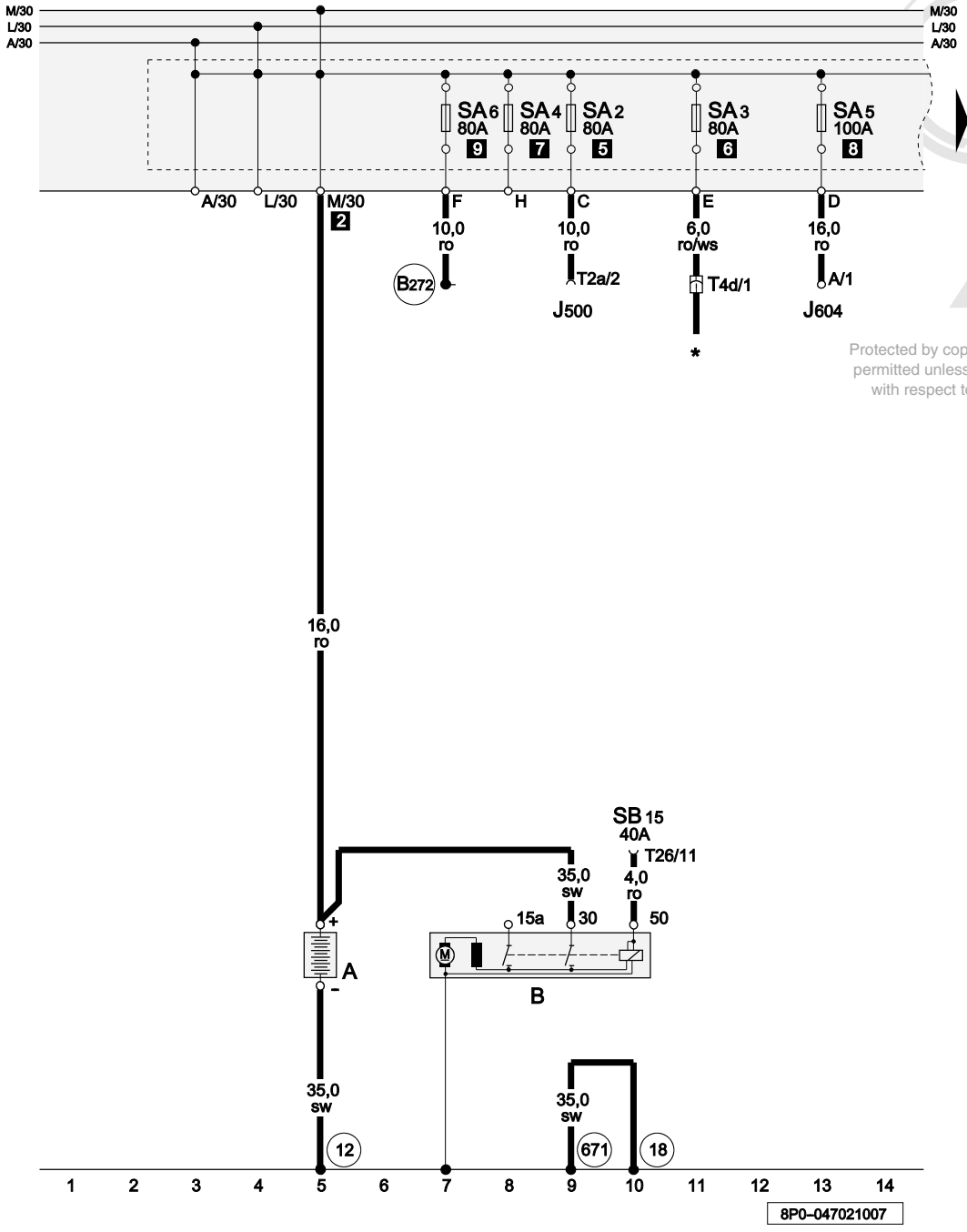
⇒ **models with engine codes BGU, BLP, BLF, BLX, AXX, BPY, BHD, BMB, BLY, BLR, BKC, AZV, BKD**
from model year 2005

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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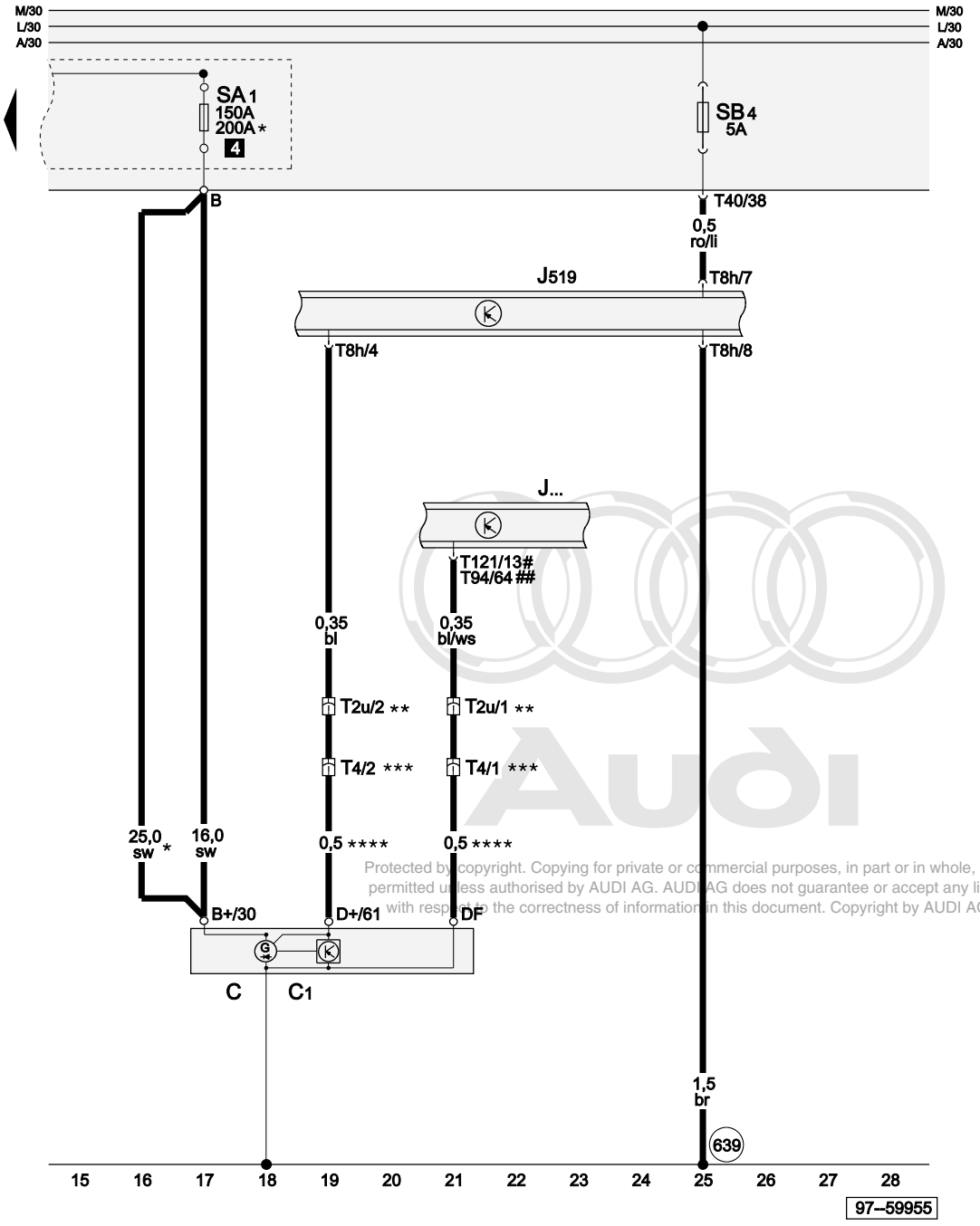
Starter, battery, fuses on fuse holder/battery

A	Battery
B	Starter
J500	Power steering control unit
J604	Auxiliary air heater control unit
SA2	Fuse 2 on fuse holder on battery
SA3	Fuse 3 on fuse holder on battery
SA4	Fuse 4 on fuse holder on battery
SA5	Fuse 5 on fuse holder on battery
SA6	Fuse 6 on fuse holder on battery
SB15	Fuse 15 on fuse holder
T2a	2-pin connector, black (connector A)
T4d	4-pin connector, black, on radiator fan (front end)
T26	26-pin connector, black, on electronics box in engine compartment (connector K)

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12	Earth point, on left in engine compartment
18	Earth point on engine block
671	Earth point 1, on front of left longitudinal member
B272	Positive connection (30), in main wiring harness
*	See applicable Current Flow Diagram: radiator fan control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Alternator, voltage regulator

C	Alternator
C1	Voltage regulator
J...	Engine control units
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SB4	Fuse 4 on fuse holder B
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
639	Earth point, left A-pillar
*	for models with alternator (140A) only
**	for models without air conditioning system only
***	for models with air conditioning system only
****	⇒ applicable engine Current Flow Diagram
#	for models with engine code BGU only
##	models with engine codes BLP, BLF, BLX, AXX, BPY, BHD, BMB, BLY, BLR, BKC, AZV, BKD only

Airbags for driver and front passenger with belt tensioners and side airbag (5-door models)

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

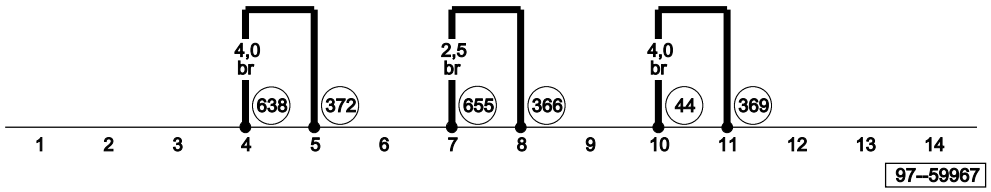
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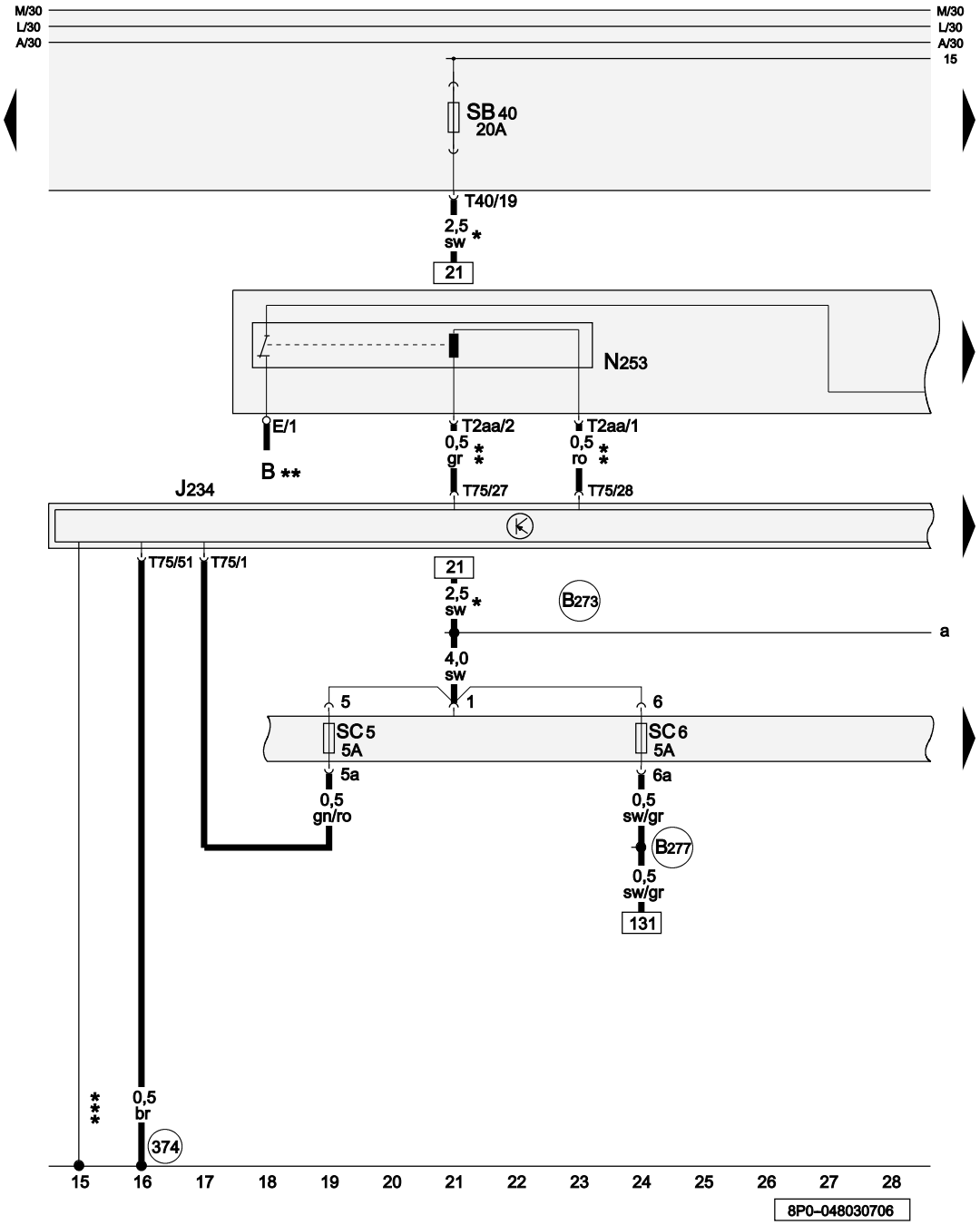
Earth connections, earth points

- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 638 Earth point, right A-pillar
- 655 Earth point, on left headlight

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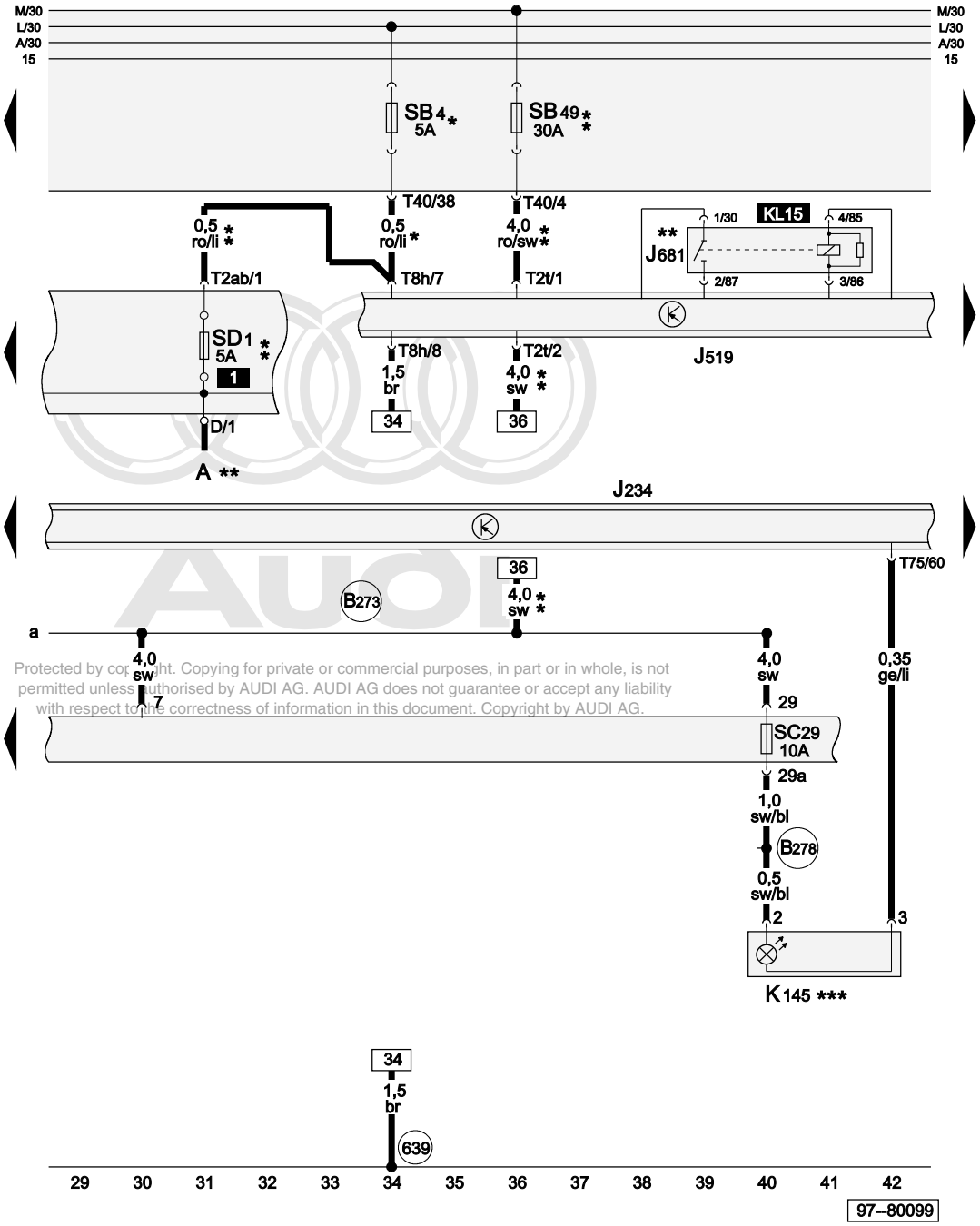


Fuses on fuse holder, battery isolation igniter

B	Starter
J234	Airbag control unit
N253	Battery isolation igniter
SB40	Fuse 40 on fuse holder
SC5	Fuse 5 on fuse holder
SC6	Fuse 6 on fuse holder
T2aa	2-pin connector, purple (connector locking yellow)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	⇒ applicable Current Flow Diagram with battery in luggage compartment
***	Earth supply via the housing from airbag control unit

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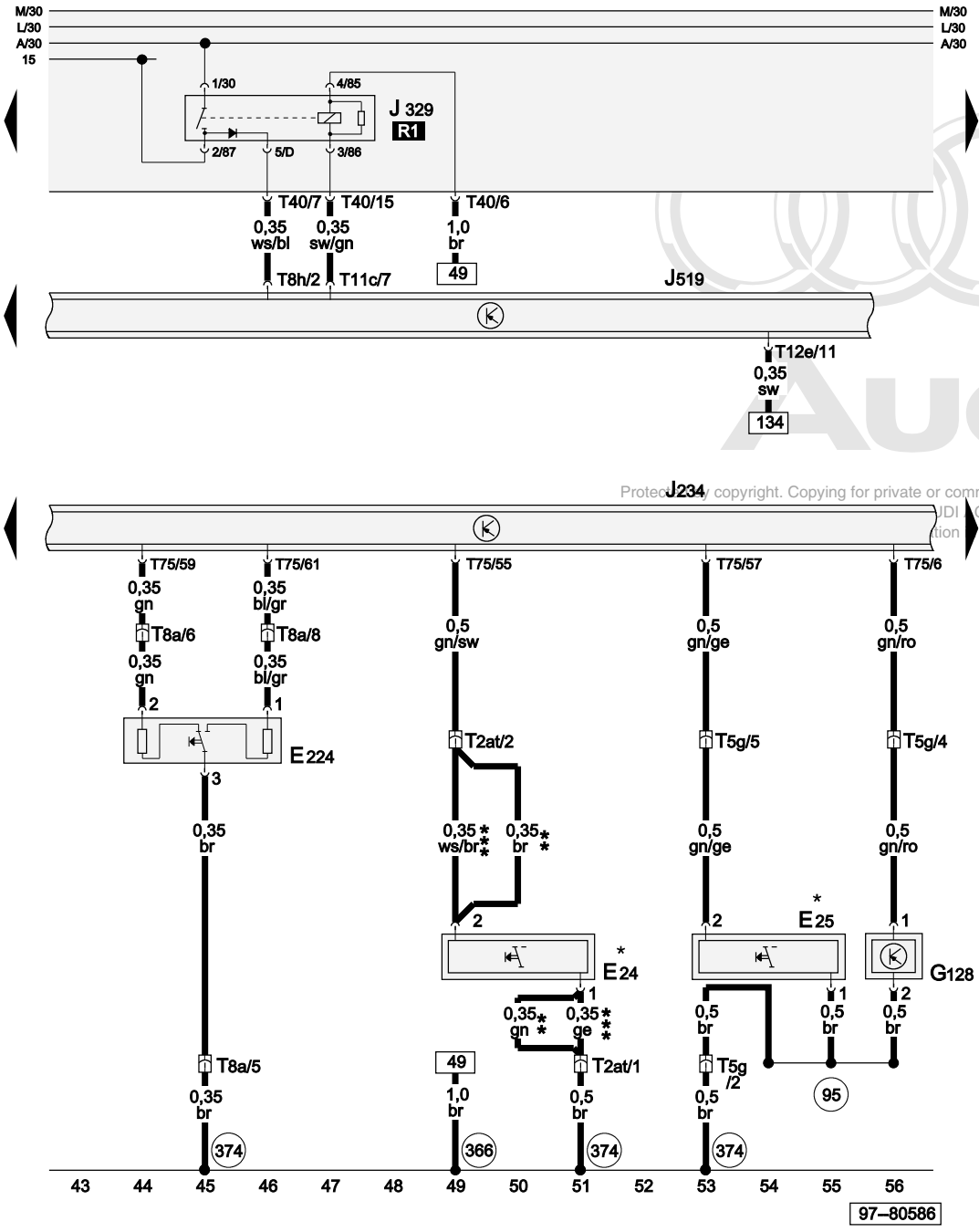


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Terminal 15 voltage supply relay 2, front passenger side airbag deactivated warning lamp

A	Battery
J234	Airbag control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
K145	Front passenger side airbag deactivated warning lamp
SB4	Fuse 4 on fuse holder
SB49	Fuse 49 on fuse holder
SC29	Fuse 29 on fuse holder
SD1	Fuse 1 on fuse holder
T2ab	2-pin connector, black
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T75	75-pin connector, yellow (connector locking green)
639	Earth point, left A-pillar
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	⇒ applicable Current Flow Diagram with battery in luggage compartment

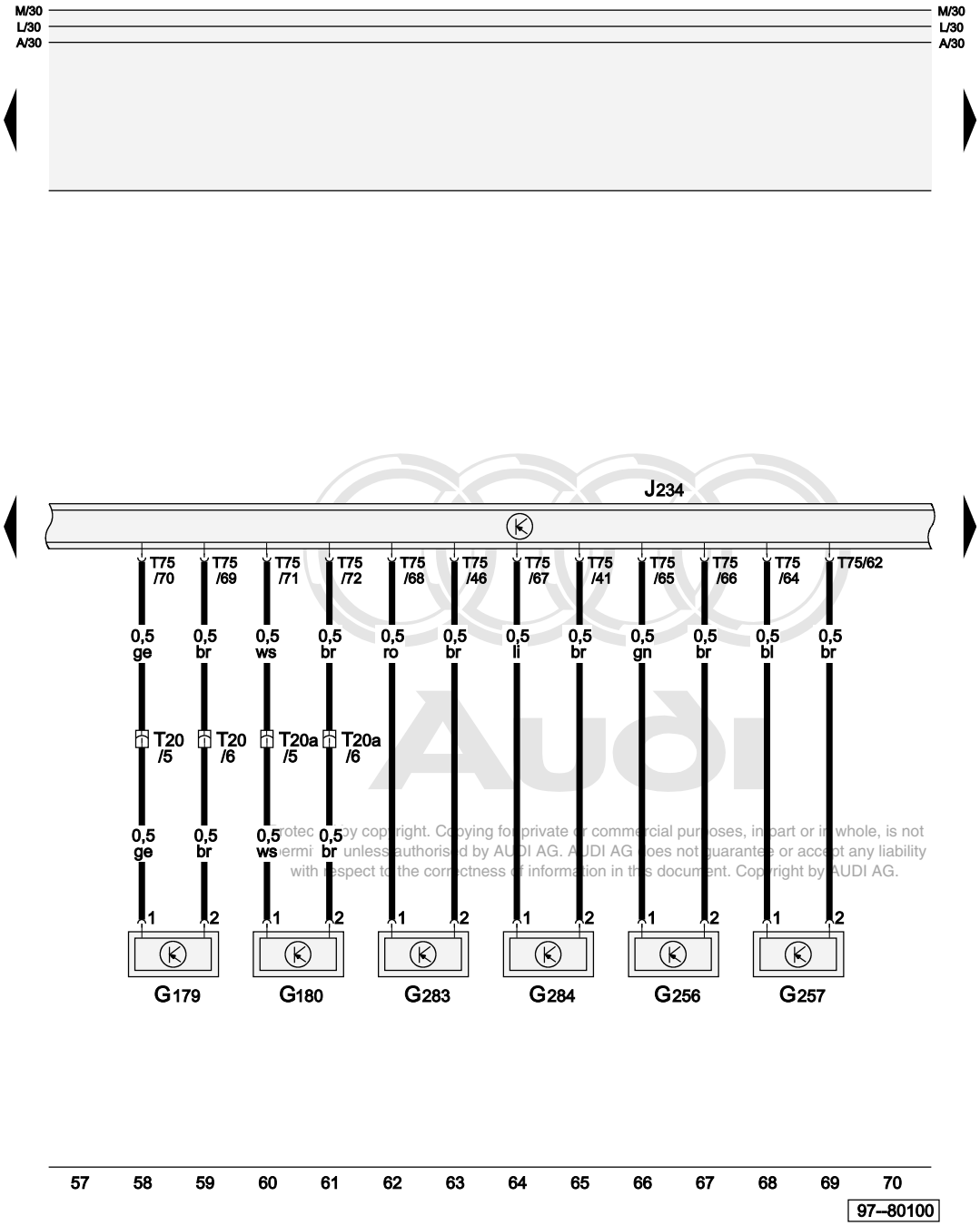


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Belt switch, terminal 15 voltage supply relay, key operated switch to deactivate airbag

E24	Driver side belt switch
E25	Front passenger side belt switch
E224	Key operated switch to deactivate front passenger side airbag
G128	Seat occupied sensor, front passenger side
J234	Airbag control unit
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
T2at	2-pin connector, black, under driver seat
T5g	5-pin connector, black, under front passenger seat
T8a	8-connector, black, near glove compartment
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T12e	12-pin connector, black (connector G)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T75	75-pin connector, yellow (connector locking green)
95	Earth connection 1, in seat adjuster wiring harness
366	Earth connection 1, in main wiring harness
374	Earth connection 9, in main wiring harness
*	for models with belt switch only
**	for models with seat adjustment only
***	for models without seat adjustment only

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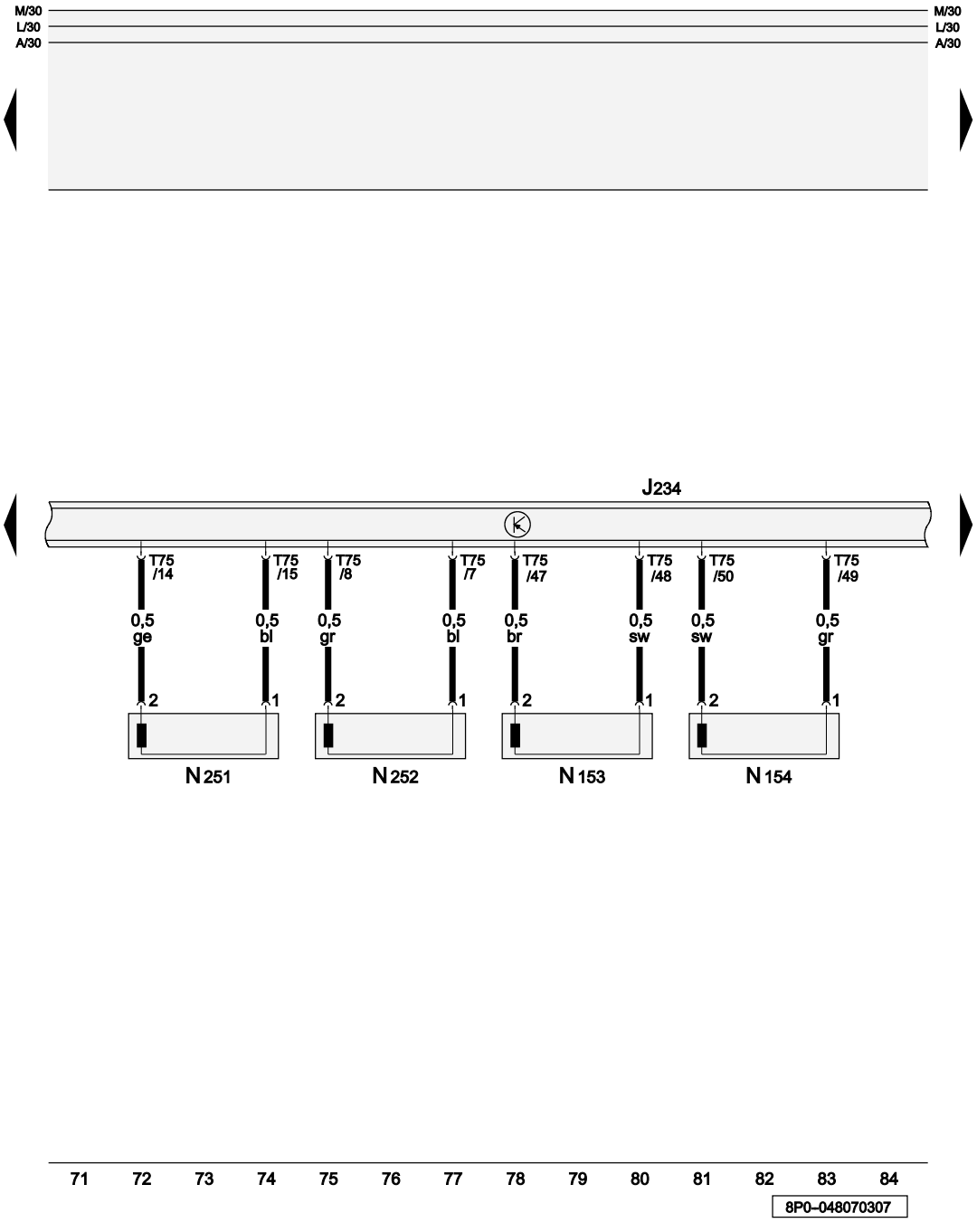


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Crash sensors

G179	Side airbag crash sensor on driver side
G180	Side airbag crash sensor on front passenger side
G256	Rear side airbag crash sensor on driver side
G257	Rear side airbag crash sensor on front passenger side
G283	Front airbag crash sensor for driver side
G284	Front airbag crash sensor for front passenger side
J234	Airbag control unit
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
T75	75-pin connector, yellow (connector locking green)

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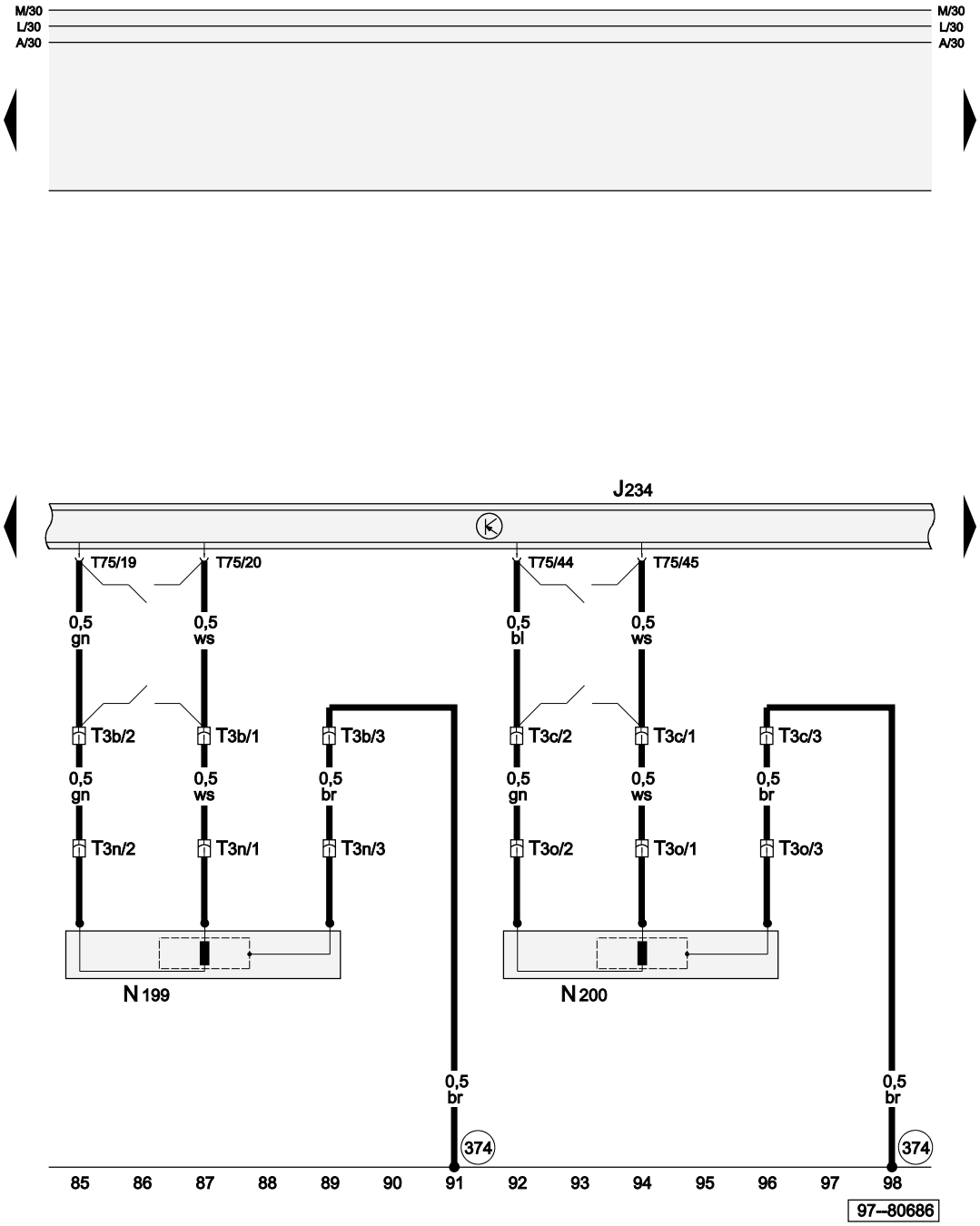


Seat belt tensioner, curtain airbag igniter

J234	Airbag control unit
N153	Driver seat belt tensioner igniter 1
N154	Front passenger side seat belt tensioner igniter 1
N251	Driver side curtain airbag igniter
N252	Front passenger side curtain airbag igniter
T75	75-pin connector, yellow (connector locking green)

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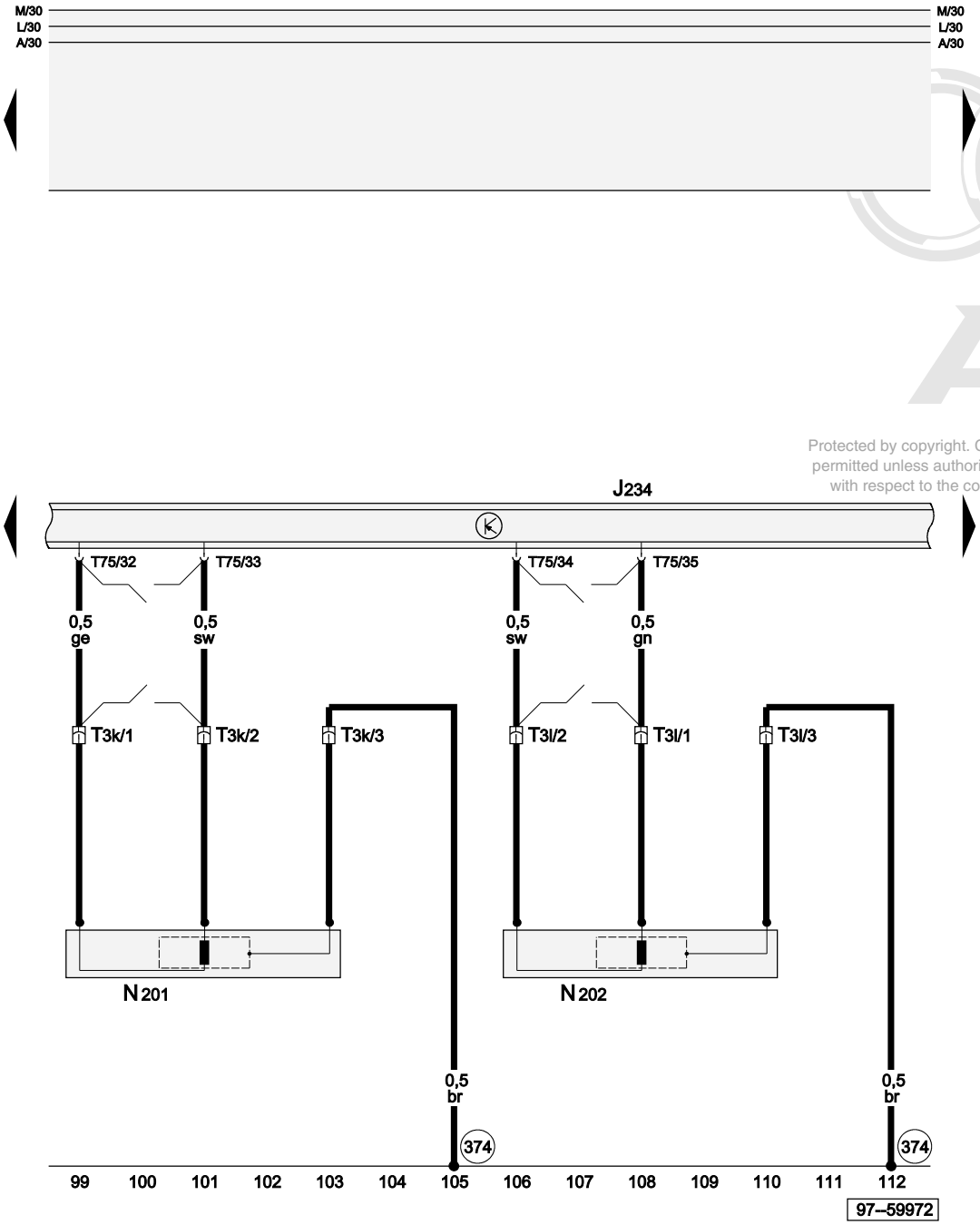
Side airbag igniter on driver side, side airbag igniter on front passenger side

J234	Airbag control unit
N199	Side airbag igniter on driver side
N200	Side airbag igniter on front passenger side
T3b	3-pin connector, yellow, near driver seat
T3c	3-pin connector, yellow, near front passenger seat
T3n	3-pin connector, in driver seat
T3o	3-pin connector, in front passenger seat
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness

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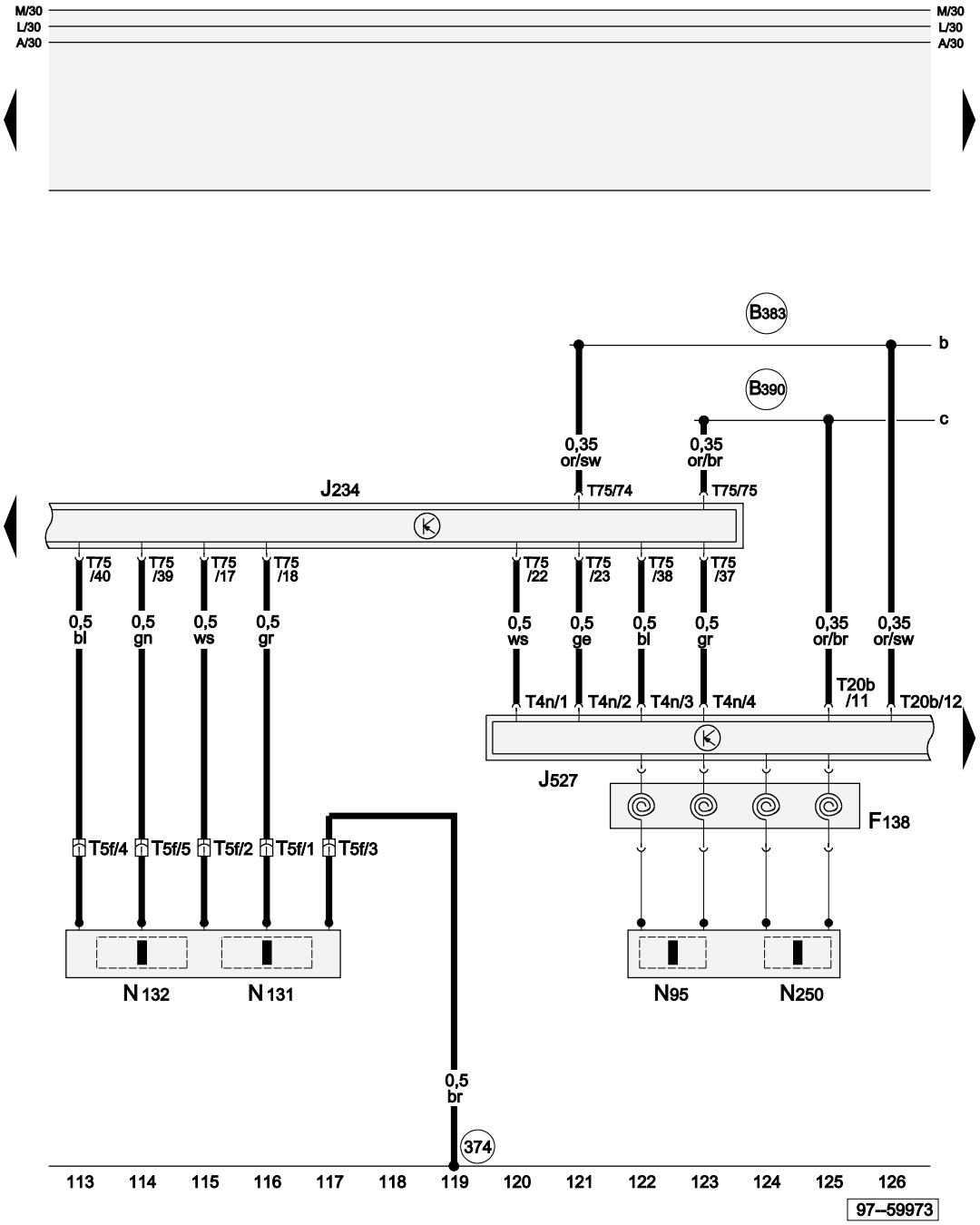
Rear side airbag igniter on driver side, rear side airbag igniter on front passenger side

J234	Airbag control unit
N201	Rear side airbag igniter on driver side
N202	Rear side airbag igniter on front passenger side
T3k	3-pin connector, yellow (connector locking purple), near C-pillar left
T3l	3-pin connector, yellow (connector locking purple), near C-pillar right
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness

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short circuit bridge becomes effective when connector is unplugged

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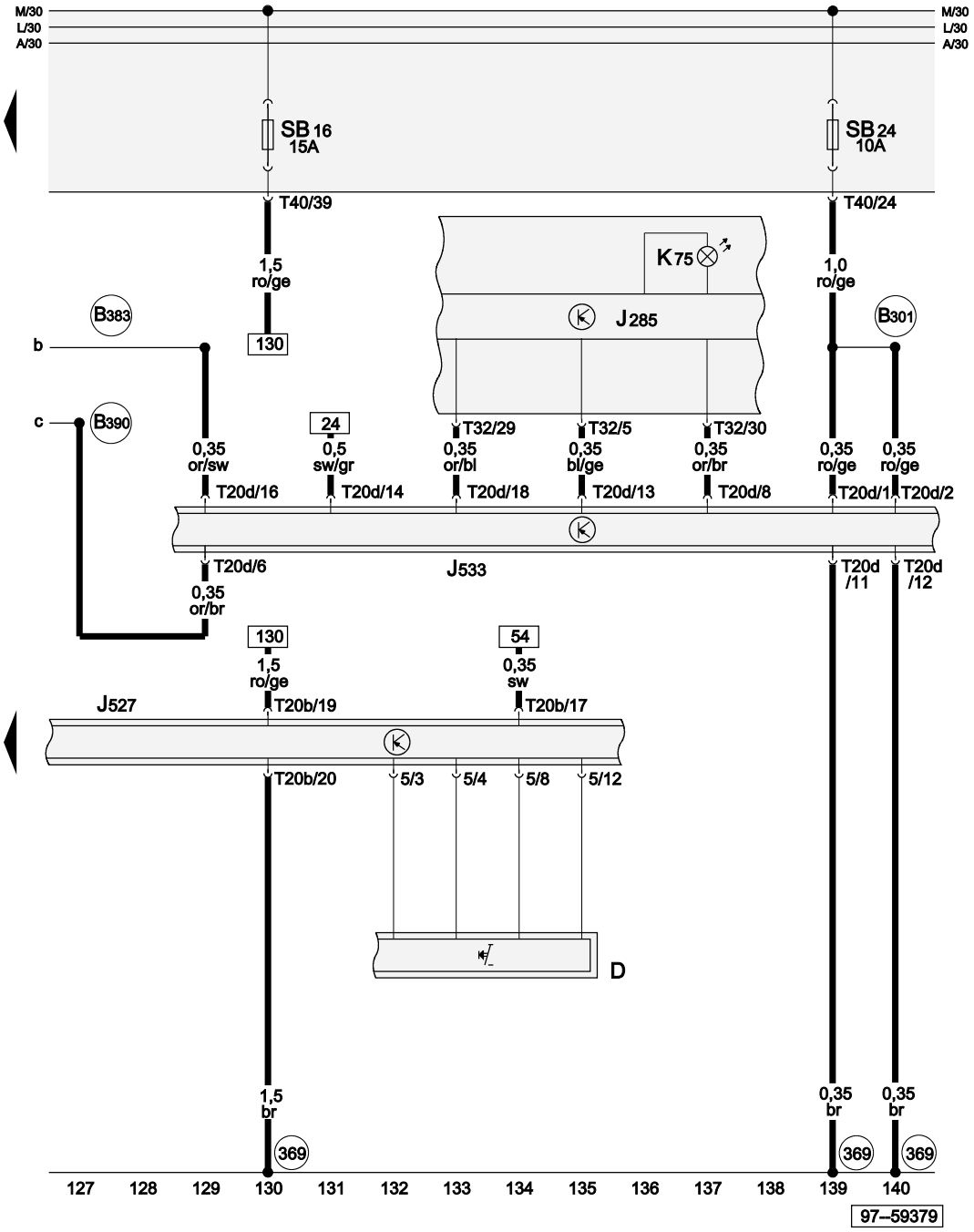


Driver side airbag igniter, front passenger side airbag igniter

F138	Airbag coil connector and return spring with slip ring
J234	Airbag control unit
J527	Steering column electronics control unit
N95	Driver side airbag igniter
N131	Front passenger side airbag igniter 1
N132	Front passenger side airbag igniter 2
N250	Driver side airbag igniter 2
T4n	4-pin connector, yellow (connector B)
T5f	5-pin connector, black
T20b	20-pin connector, black (connector A)
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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Display unit control unit

D	Ignition/starter switch
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K75	Airbag warning lamp
SB16	Fuse 16 on fuse holder
SB24	Fuse 24 on fuse holder
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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Basic equipment

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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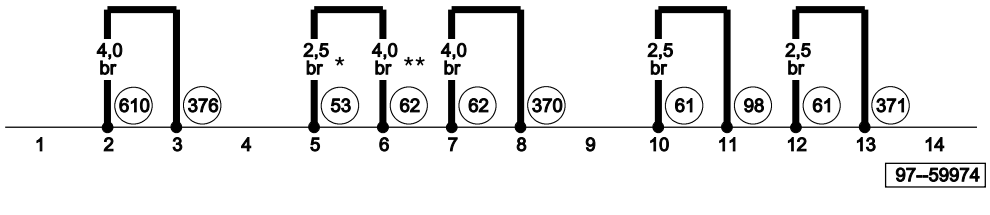


Earth points, earth connections

53	Earth point, on right in rear lid
61	Earth point, left C-pillar
62	Earth point, right C-pillar
98	Earth connection, in rear lid wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front

* for models without radio only
** for models with radio only

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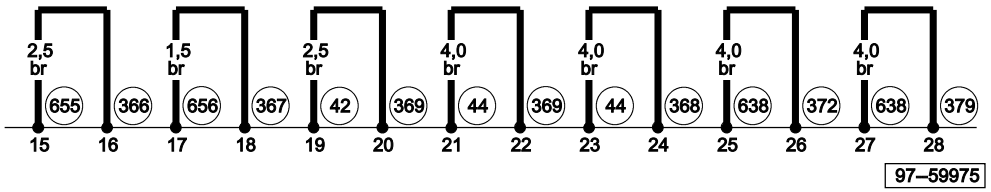
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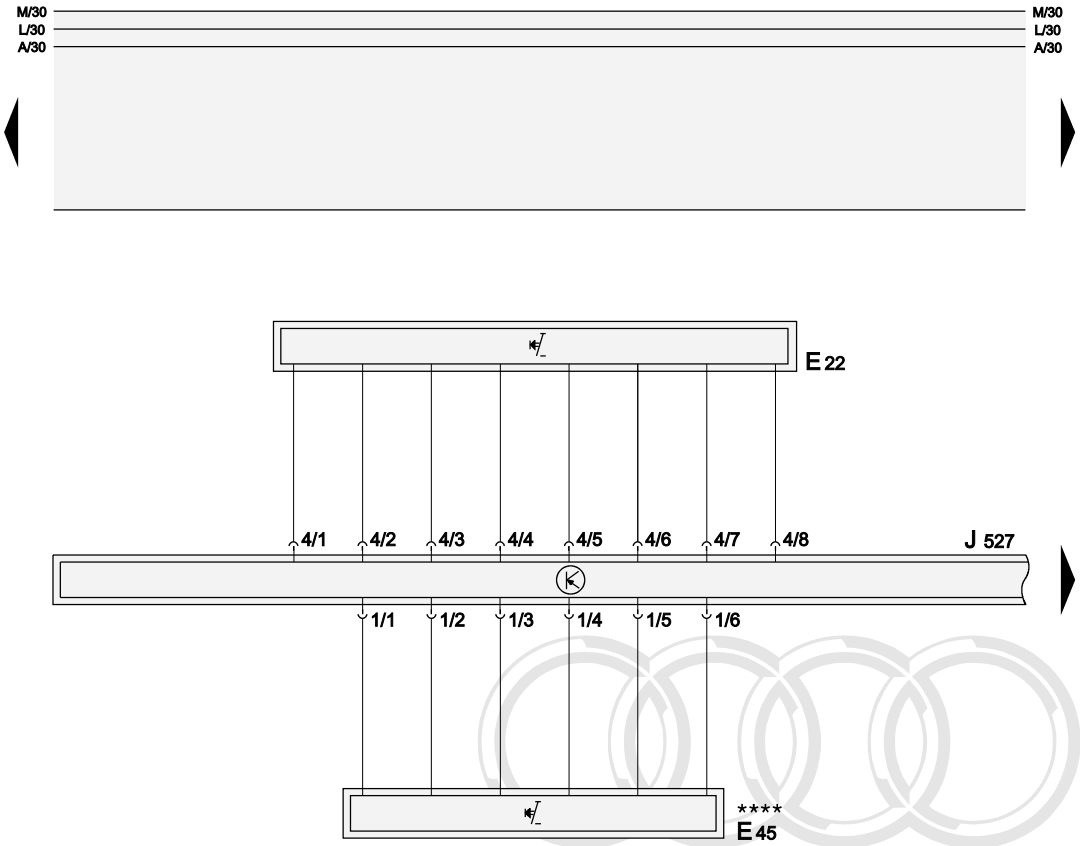
Earth points, earth connections

42	Earth point, next to steering column
44	Earth point, lower part of left A-pillar
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
379	Earth connection 14, in main wiring harness
638	Earth point, right A-pillar
655	Earth point, on left headlight
656	Earth point, on right headlight

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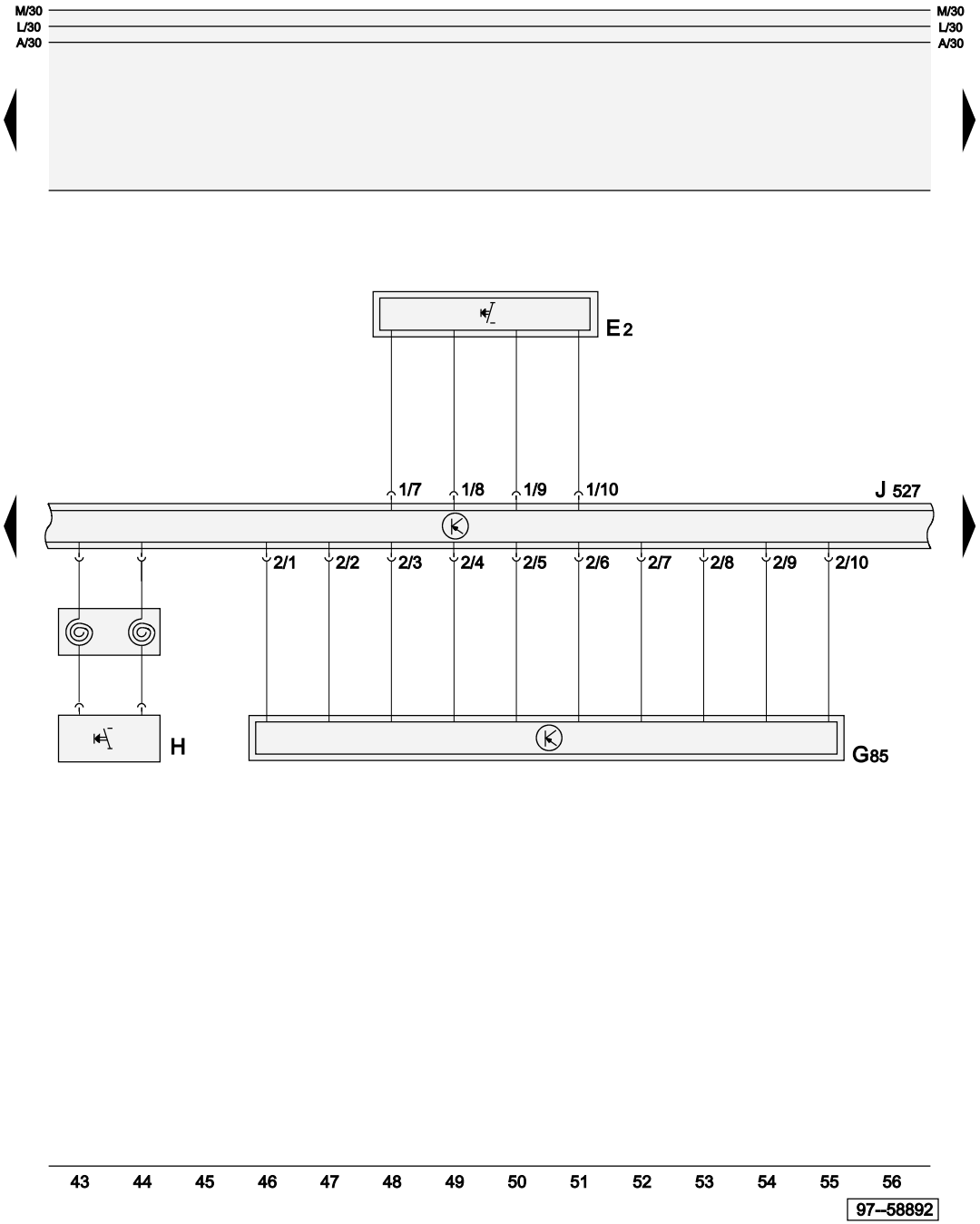


Intermittent wiper switch, cruise control system switch

E22	Intermittent wiper switch
E45	Cruise control system switch
J527	Steering column electronics control unit
****	for models with cruise control system only

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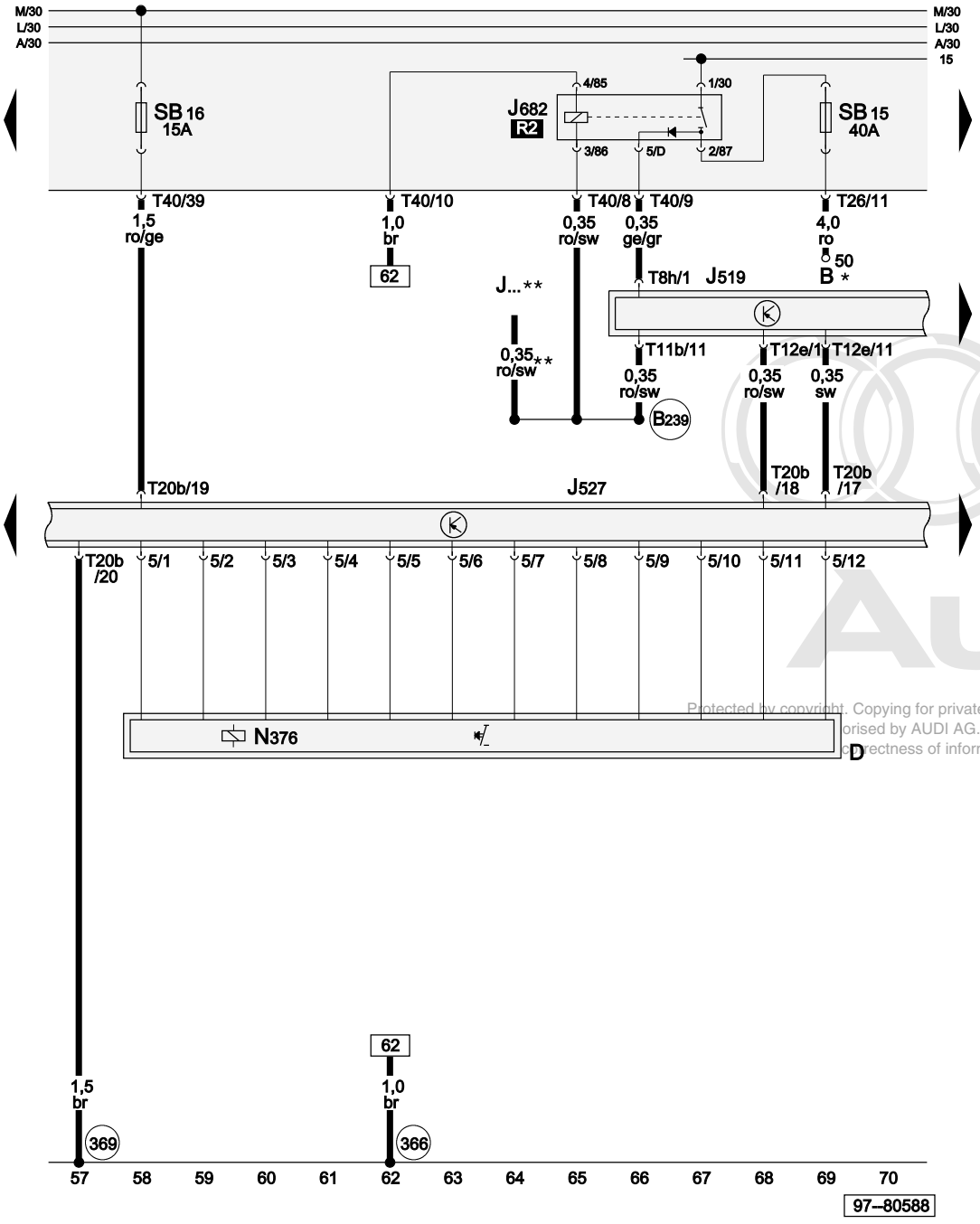


Turn signal switch, steering angle sender, horn plate

E2	Turn signal switch
G85	Steering angle sender
H	Horn plate
J527	Steering column electronics control unit

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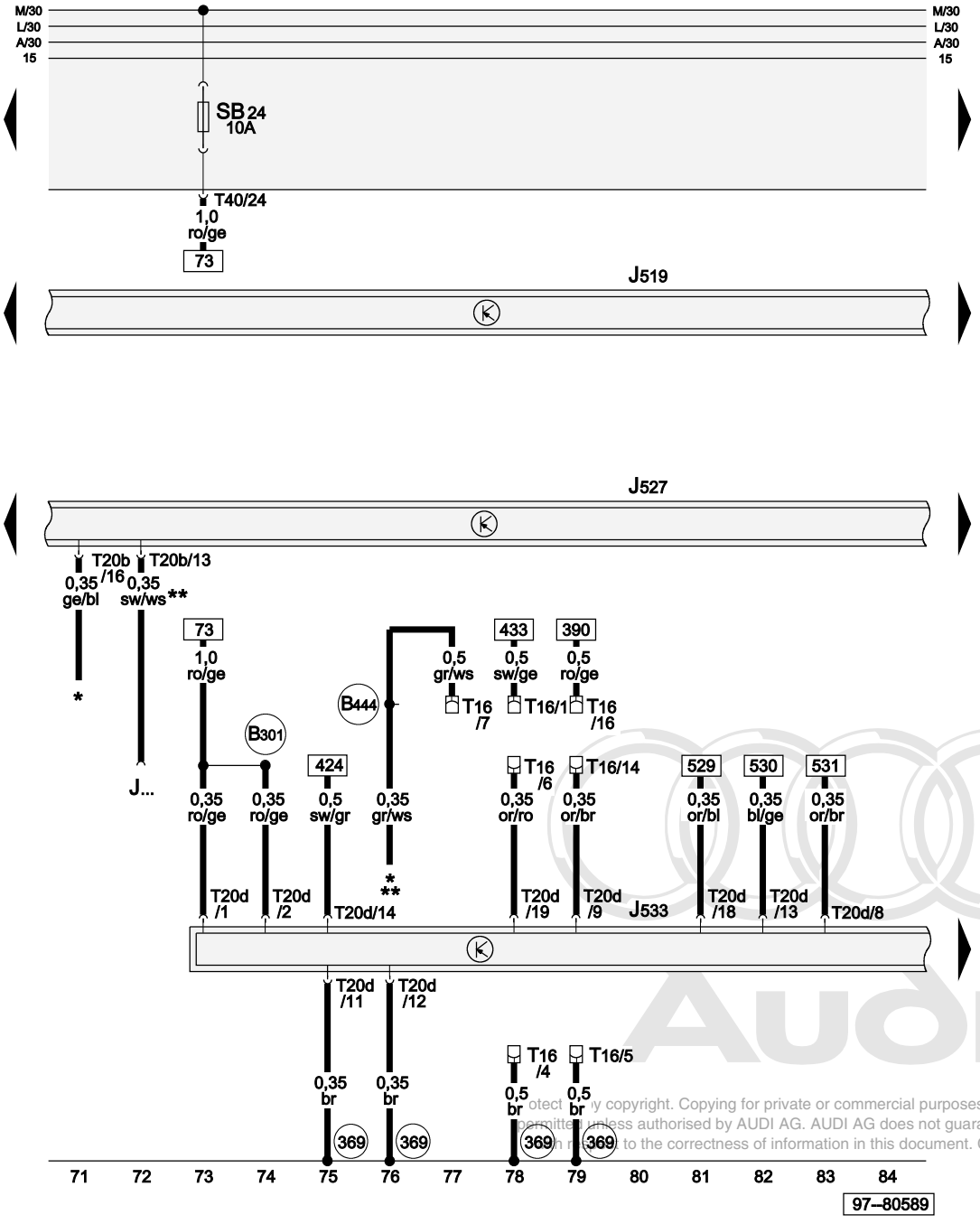


Terminal 50 voltage supply relay, ignition/starter switch

B	Starter
D	Ignition/starter switch
J...	Engine control units
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
N376	Ignition key withdrawal lock solenoid
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram with battery in luggage compartment or engine compartment
**	⇒ applicable engine Current Flow Diagram

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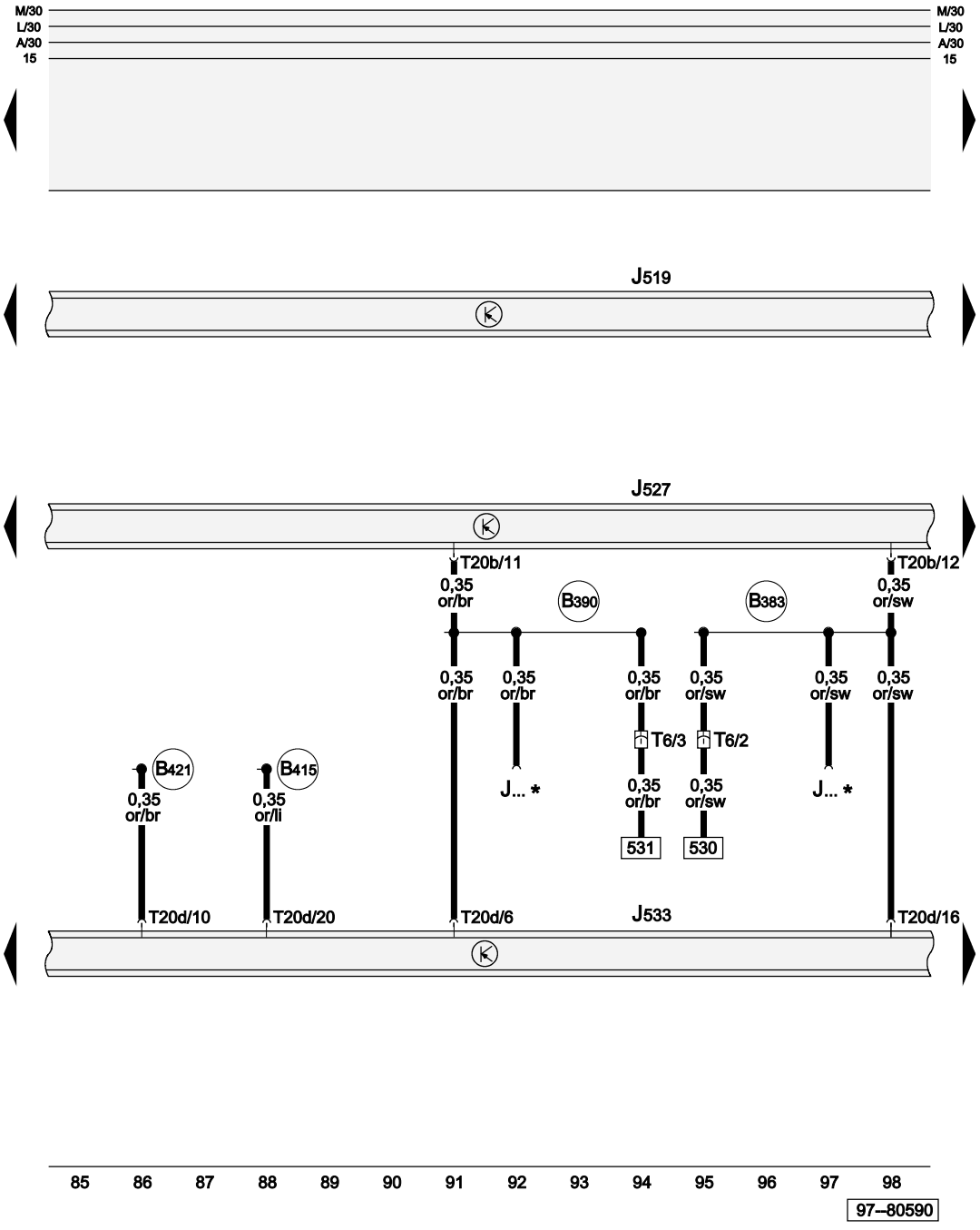


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Diagnostic connector, data bus diagnostic interface

J...	Engine control units
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB24	Fuse 24 on fuse holder
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	⇒ applicable Current Flow Diagram: automatic gearbox
**	⇒ applicable engine Current Flow Diagram

Audi
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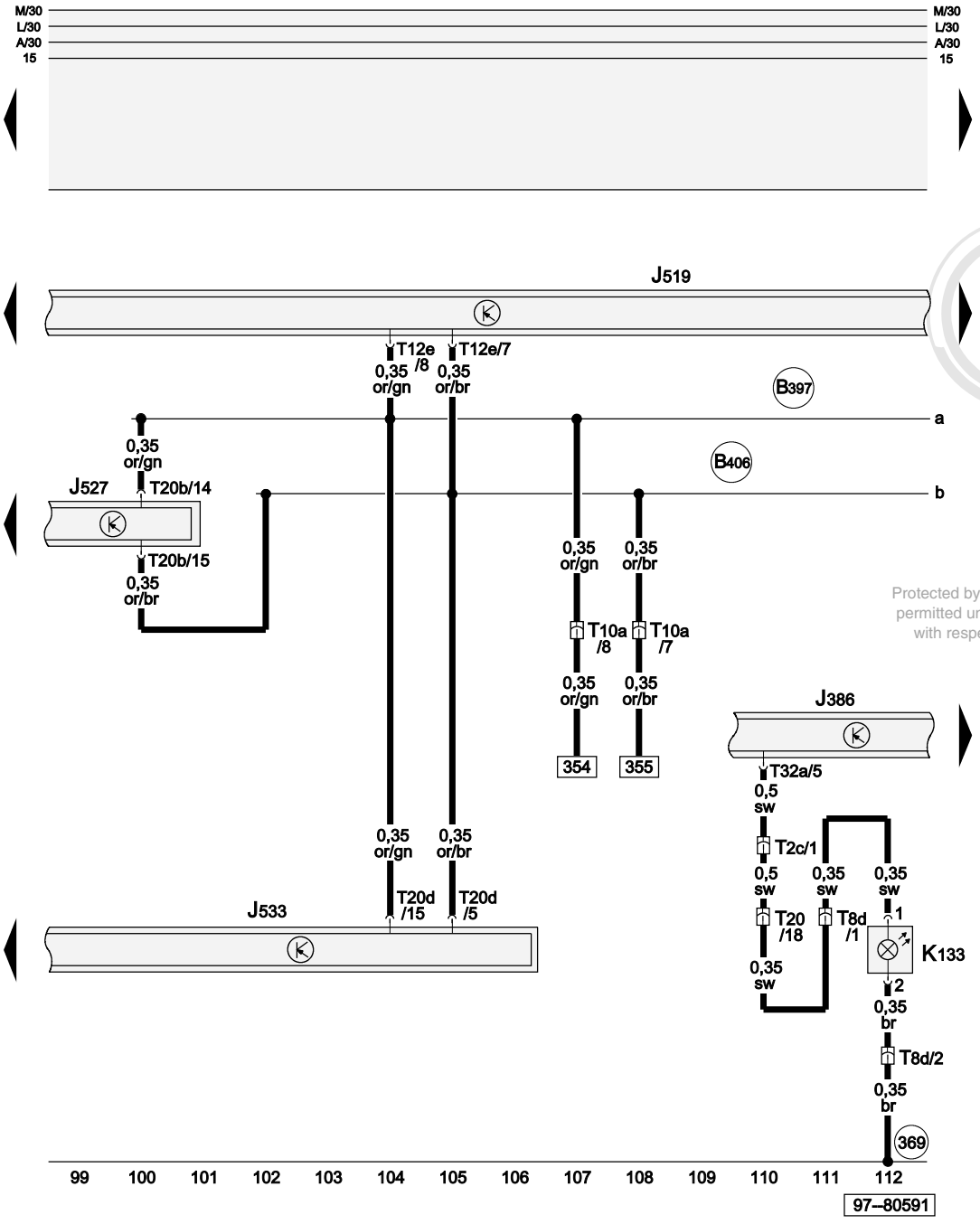


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Data bus diagnostic interface, drive train CAN bus, infotainment CAN bus

J...	Engine control units
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T6	6-pin connector, black, near longitudinal member, front left
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	⇒ applicable engine Current Flow Diagram

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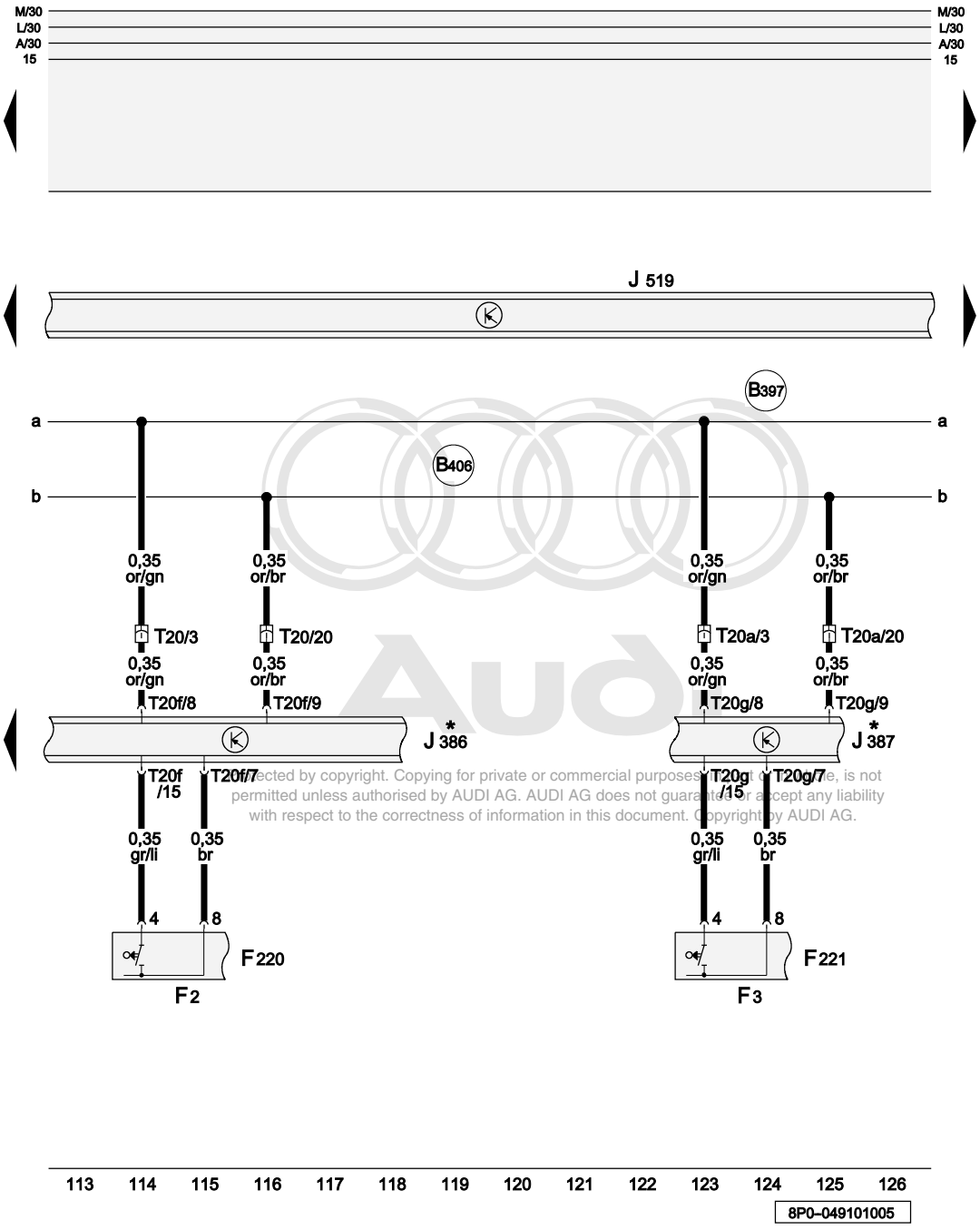


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ge = yellow
or = orange
rs = pink

Data bus diagnostic interface, convenience CAN bus

J386	Driver side door control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K133	Central locking deadlock function warning lamp
T2c	2-pin connector, black, behind door trim driver door
T8d	8-pin connector, black, behind centre console
T10a	10-pin connector, black, behind the glove compartment
T12e	12-pin connector, black (connector G)
T20	20-pin connector, black, door, A pillar, left
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32a	32-pin connector, grey (connector C)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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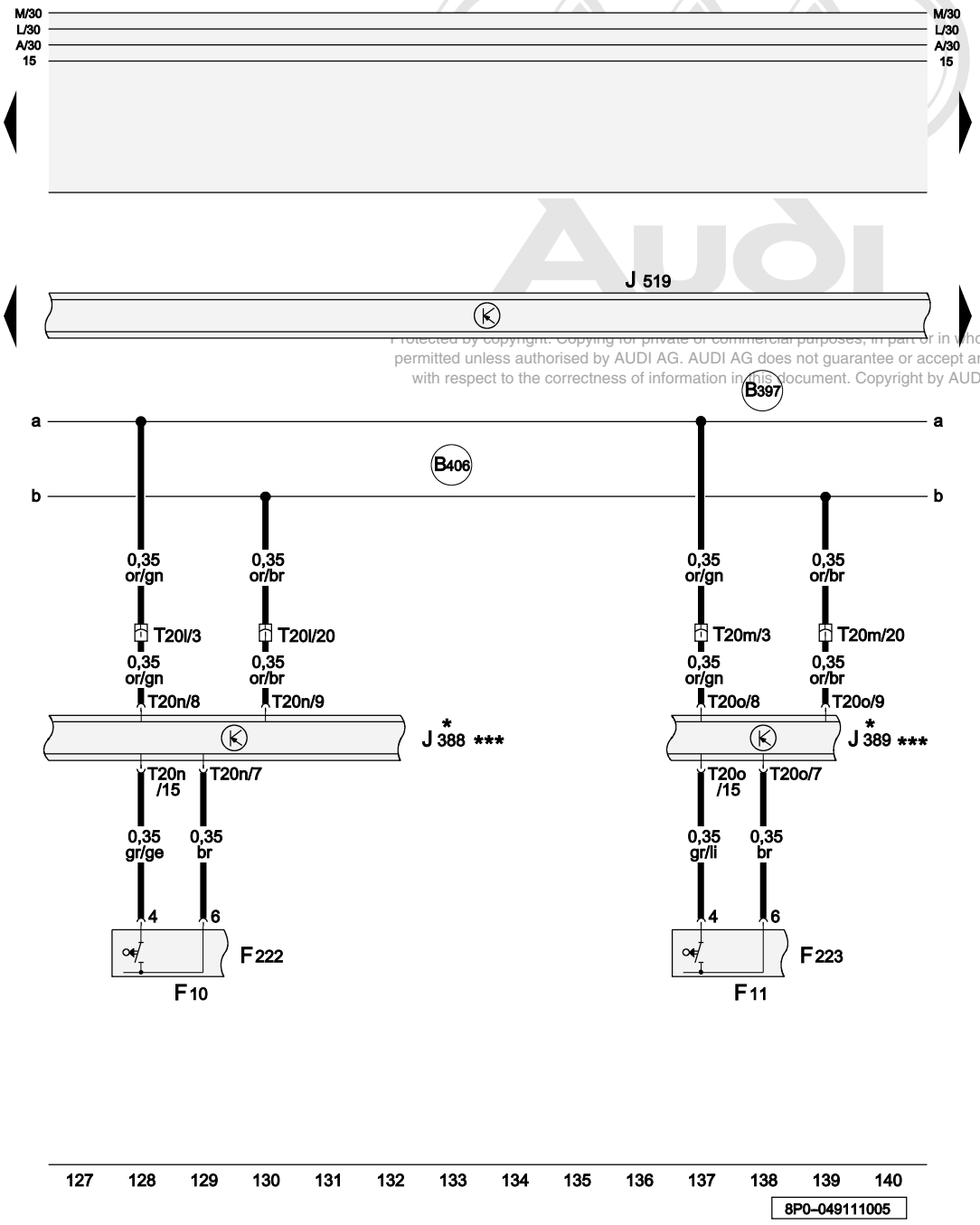


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Convenience CAN bus, driver door contact switch, front passenger door contact switch

F2	Driver door contact switch
F3	Front passenger door contact switch
F220	Driver side central locking lock unit
F221	Front passenger side central locking lock unit
J386	Driver side door control unit
J387	Front passenger door control unit
J519	Onboard supply control unit
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Voltage supply, ⇒ applicable Current Flow Diagram: convenience system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

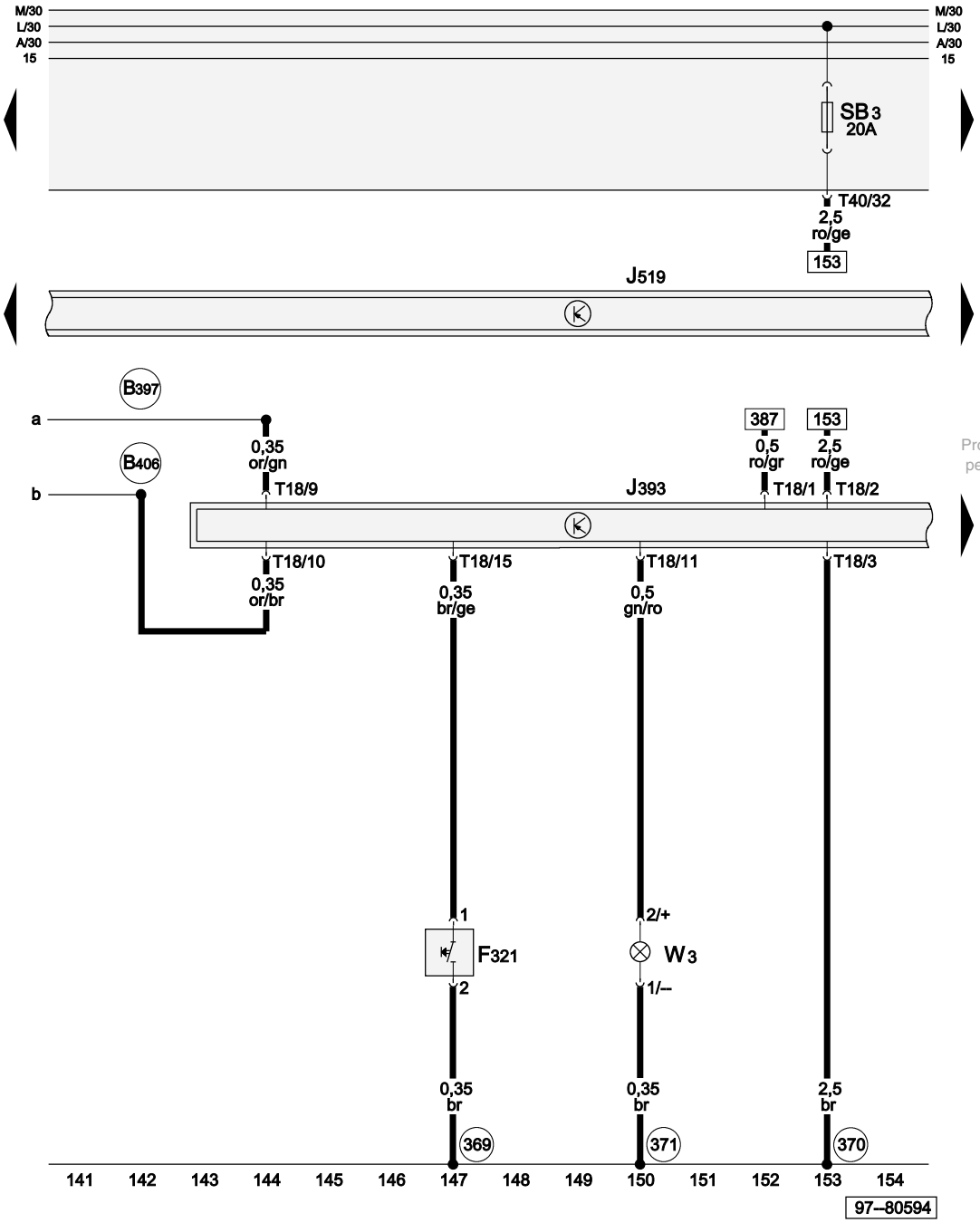


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Convenience CAN bus, rear left door contact switch, rear right door contact switch

F10	Rear left door contact switch
F11	Rear right door contact switch
F222	Rear left central locking lock unit
F223	Rear right central locking lock unit
J388	Rear left door control unit
J389	Rear right door control unit
J519	Onboard supply control unit
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
T20n	20-pin connector, black (connector A)
T20o	20-pin connector, black (connector A)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Voltage supply, ⇒ applicable Current Flow Diagram: convenience system
***	for models with 5-door models only

ws	=	white
sw	=	black
ro	=	red
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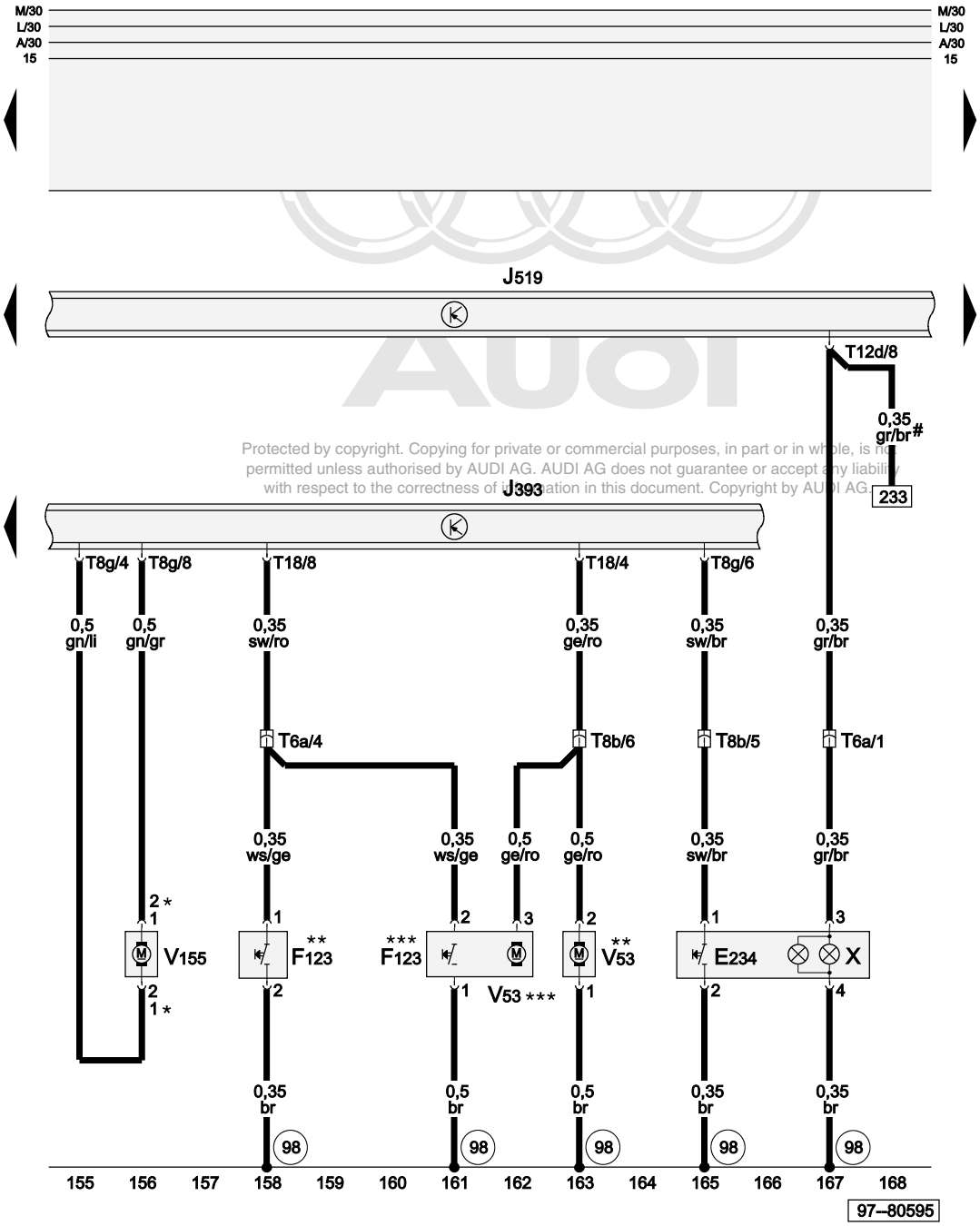


Parking brake contact switch, luggage compartment light

F321	Parking brake contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
SB3	Fuse 3 on fuse holder
T18	18-pin connector, brown (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
W3	Luggage compartment light
369	Earth connection 4, in main wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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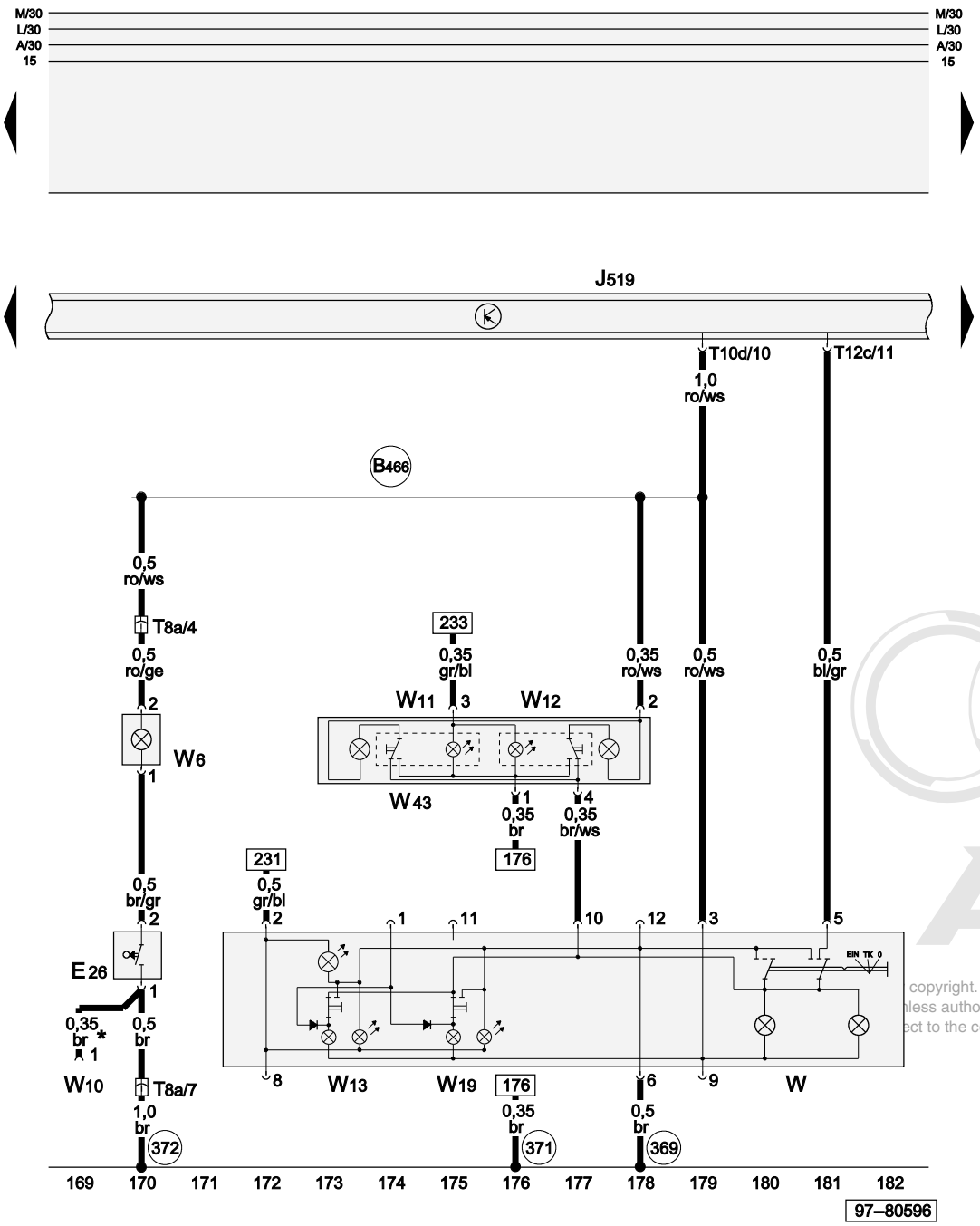


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Rear lid contact switch, number plate light

E234	Rear lid handle release button
F123	Rear lid contact switch for anti-theft alarm system
J393	Convenience system central control unit
J519	Onboard supply control unit
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
T18	18-pin connector, brown (connector A)
V53	Rear lid central locking motor
V155	Tank filler flap locking motor
X	Number plate light
98	Earth connection, in rear lid wiring harness
*	For USA only
**	for models with 3-door models only
***	for models with 5-door models only
#	applicable from November 2004

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

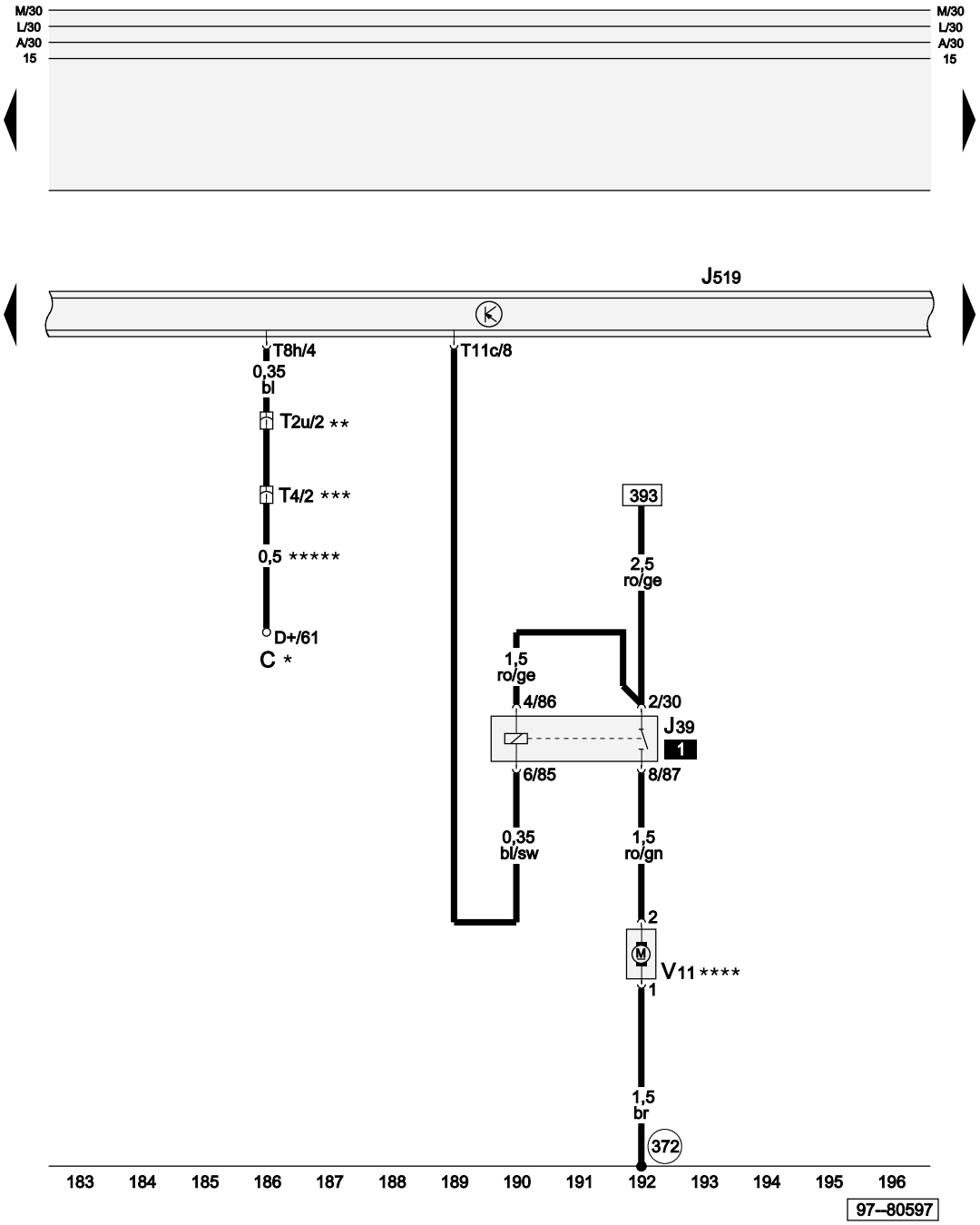


Front and rear interior light, glove compartment light

E26	Glove compartment light switch
J519	Onboard supply control unit
T8a	8-pin connector, black, near glove compartment
T10d	10-pin connector, black (connector K)
T12c	12-pin connector, black (connector B)
W	Front interior light
W6	Glove compartment light
W10	Right footwell light
W11	Rear left reading light
W12	Rear right reading light
W13	Front passenger side reading light
W19	Driver side reading light
W43	Rear interior light
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
372	Earth connection 7, in main wiring harness
B466	Connection 2, in main wiring harness
*	⇒ applicable Current Flow Diagram: convenience system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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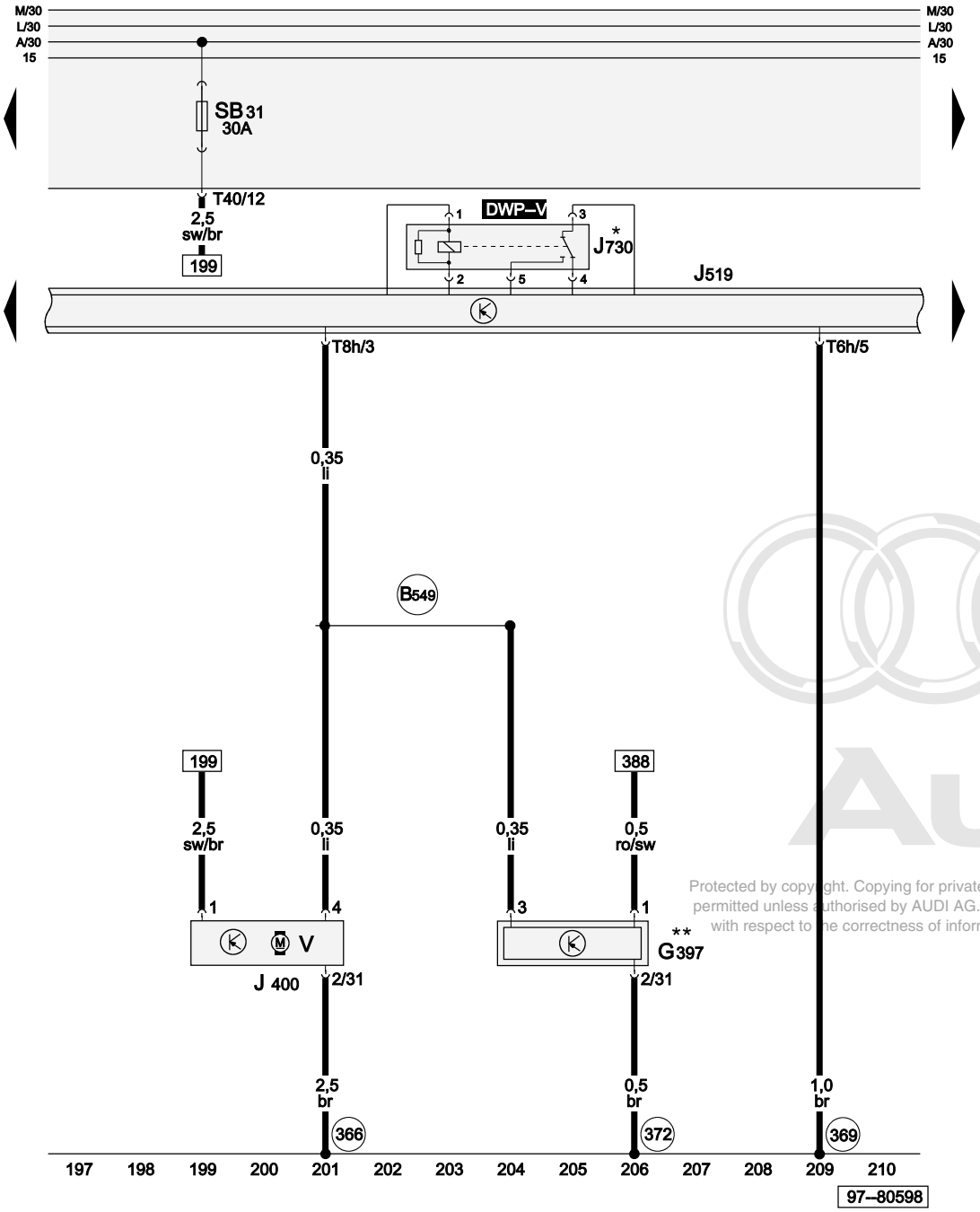


Headlight washer system relay, headlight washer system pump

C	Alternator
J39	Headlight washer system relay
J519	Onboard supply control unit
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
V11	Headlight washer system pump
372	Earth connection 7, in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in luggage compartment or engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
****	for models with headlight washer system only
*****	⇒ applicable engine Current Flow Diagram

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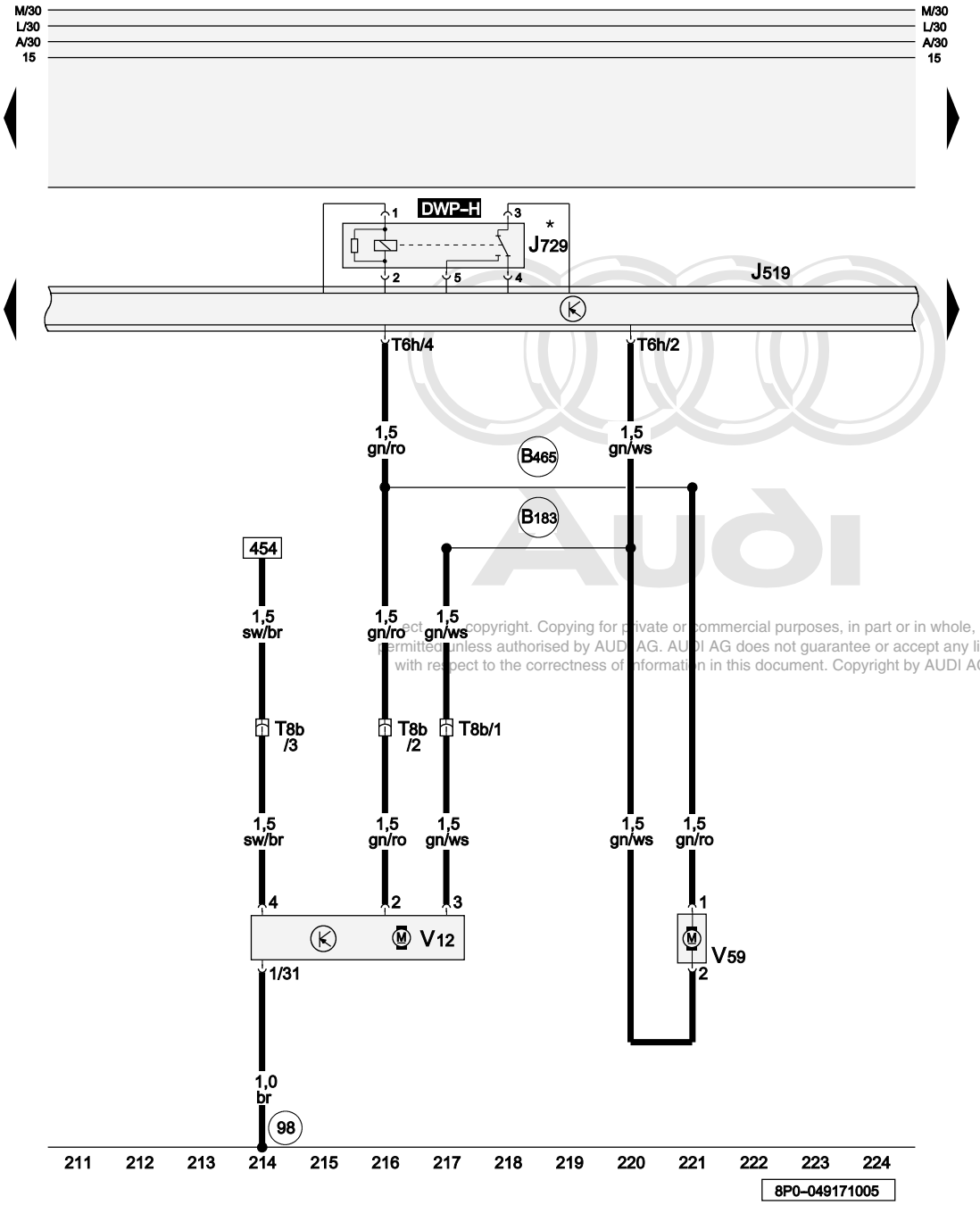


Double washer pump relay 2, windscreen wiper motor, rain and light detector sensor

G397	Rain and light detector sensor
J400	Wiper motor control unit
J519	Onboard supply control unit
J730	Double washer pump relay 2
SB31	Fuse 31 on fuse holder
T6h	6-pin connector, black (connector J)
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
V	Windscreen wiper motor
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B549	Connection 2 (LIN bus), in main wiring harness
*	Washer pump relay, front
**	for models with automatic headlight switching only

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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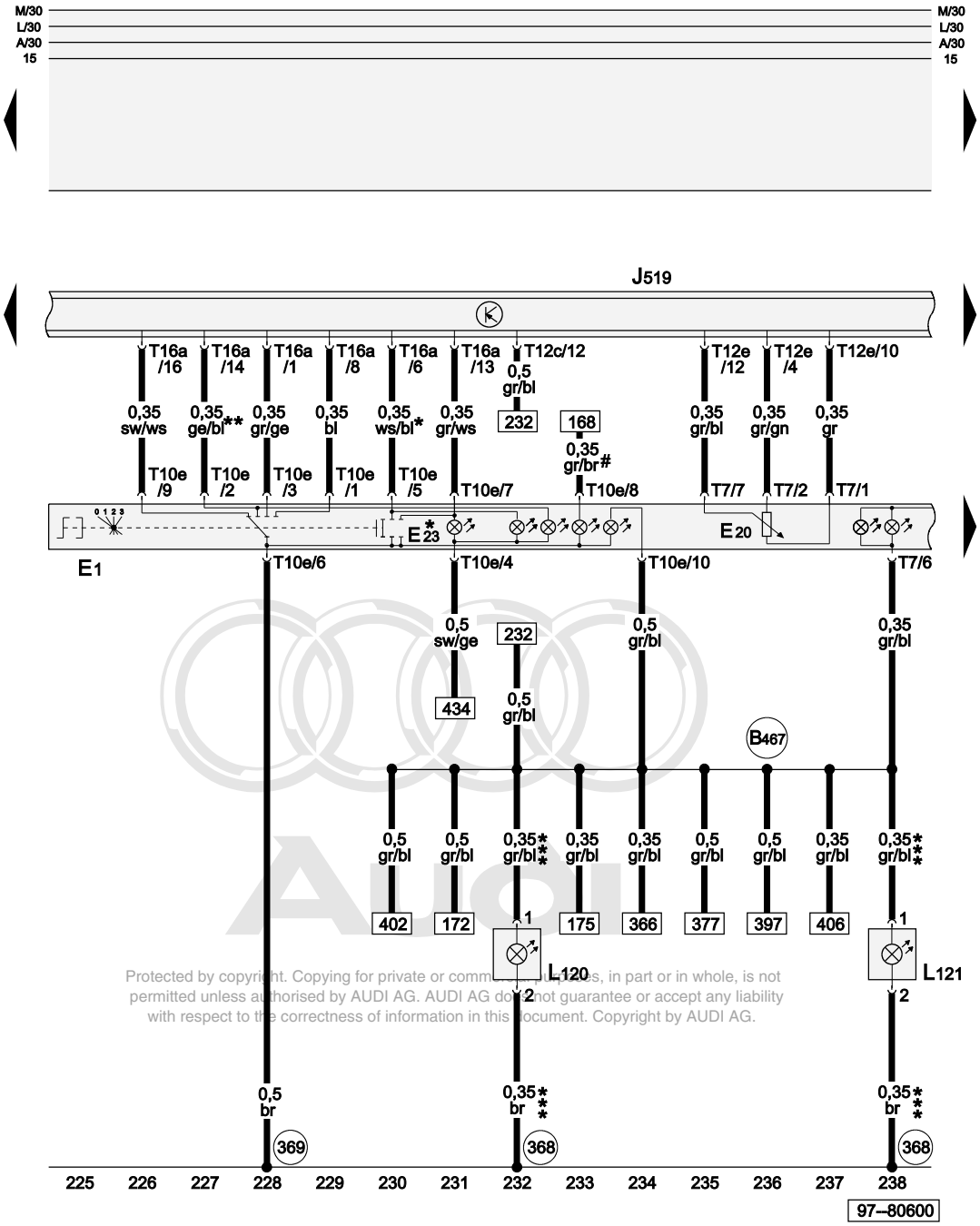


Rear window wiper motor, double washer pump relay 1

J519	Onboard supply control unit
J729	Double washer pump relay 1
T6h	6-pin connector, black (connector J)
T8b	8-pin connector, brown, on left C-pillar
V12	Rear window wiper motor
V59	Windscreen and rear window washer pump
98	Earth connection, in rear lid wiring harness
B183	Connection 1 (washer pump), in interior wiring harness
B465	Connection 1, in main wiring harness
*	Rear window washer pump relay

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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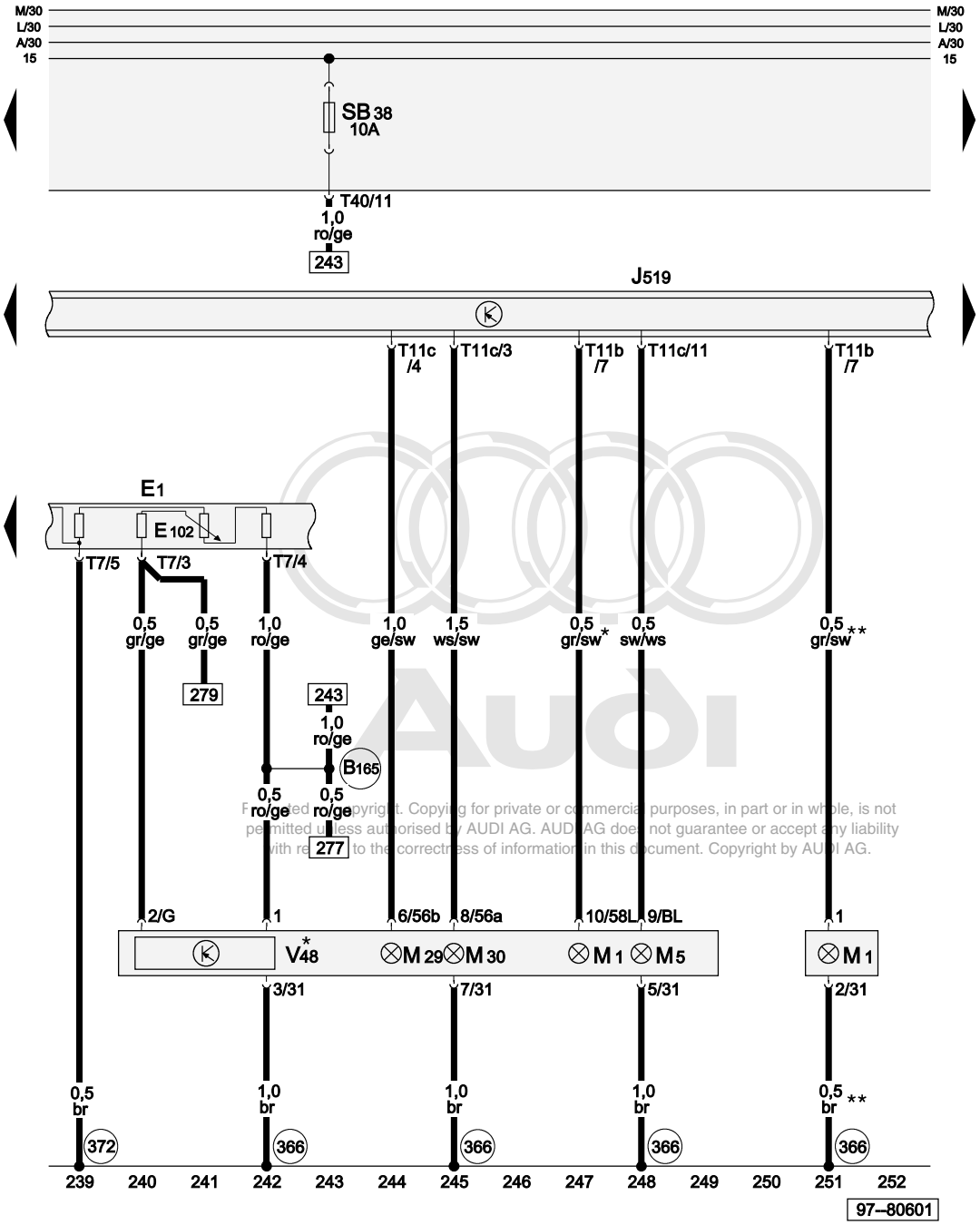
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or = orange
rs = pink

Light switch, illumination regulators, switches, instruments, front and rear fog light switch

E1	Light switch
E20	Illumination regulators, switches, instruments
E23	Front and rear fog light switch
J519	Onboard supply control unit
L120	Storage compartment illumination bulb
L121	Cup holder illumination bulb
T7	7-pin connector, black (connector B)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T12e	12-pin connector, black (connector G)
T16a	16-pin connector, black (connector E)
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
B467	Connection 3, in main wiring harness

* for models with front fog light only
** for models with automatic headlight switching only
*** for models with shelf illumination and cup holder illumination only
# applicable from November 2004

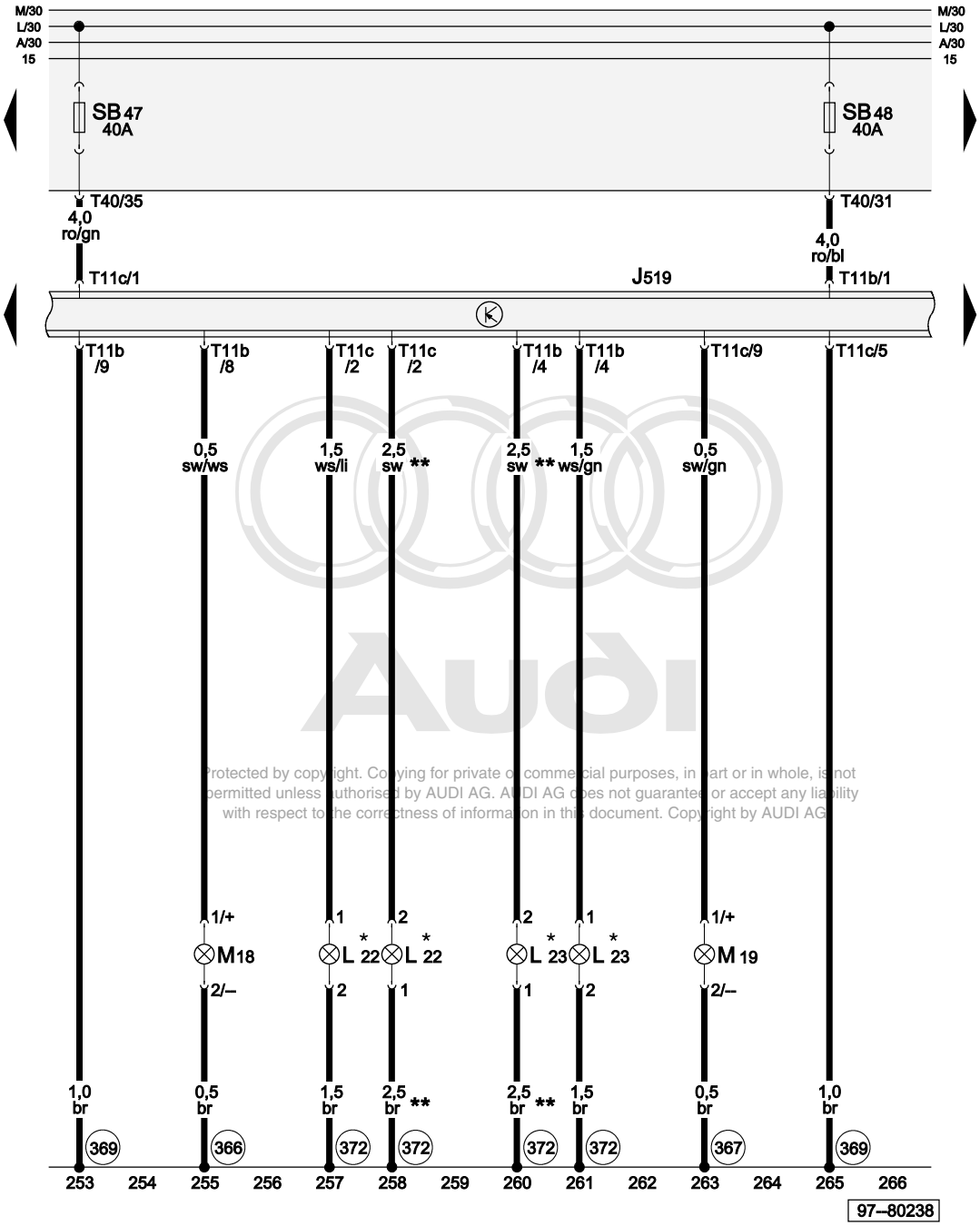


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Headlight range control regulator, front left headlight bulbs

E1	Light switch
E102	Headlight range control regulator
J519	Onboard supply control unit
M1	Left side light bulb
M5	Front left turn signal bulb
M29	Left headlight dipped beam bulb
M30	Left main beam bulb
SB38	Fuse 38 on fuse holder
T7	7-pin connector, black (connector B)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
V48	Left headlight range control motor
366	Earth connection 1, in main wiring harness
372	Earth connection 7, in main wiring harness
B165	Positive connection 2 (15), in interior wiring harness
*	for models with headlight range control motor only
**	Not for models with headlight range control motor

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

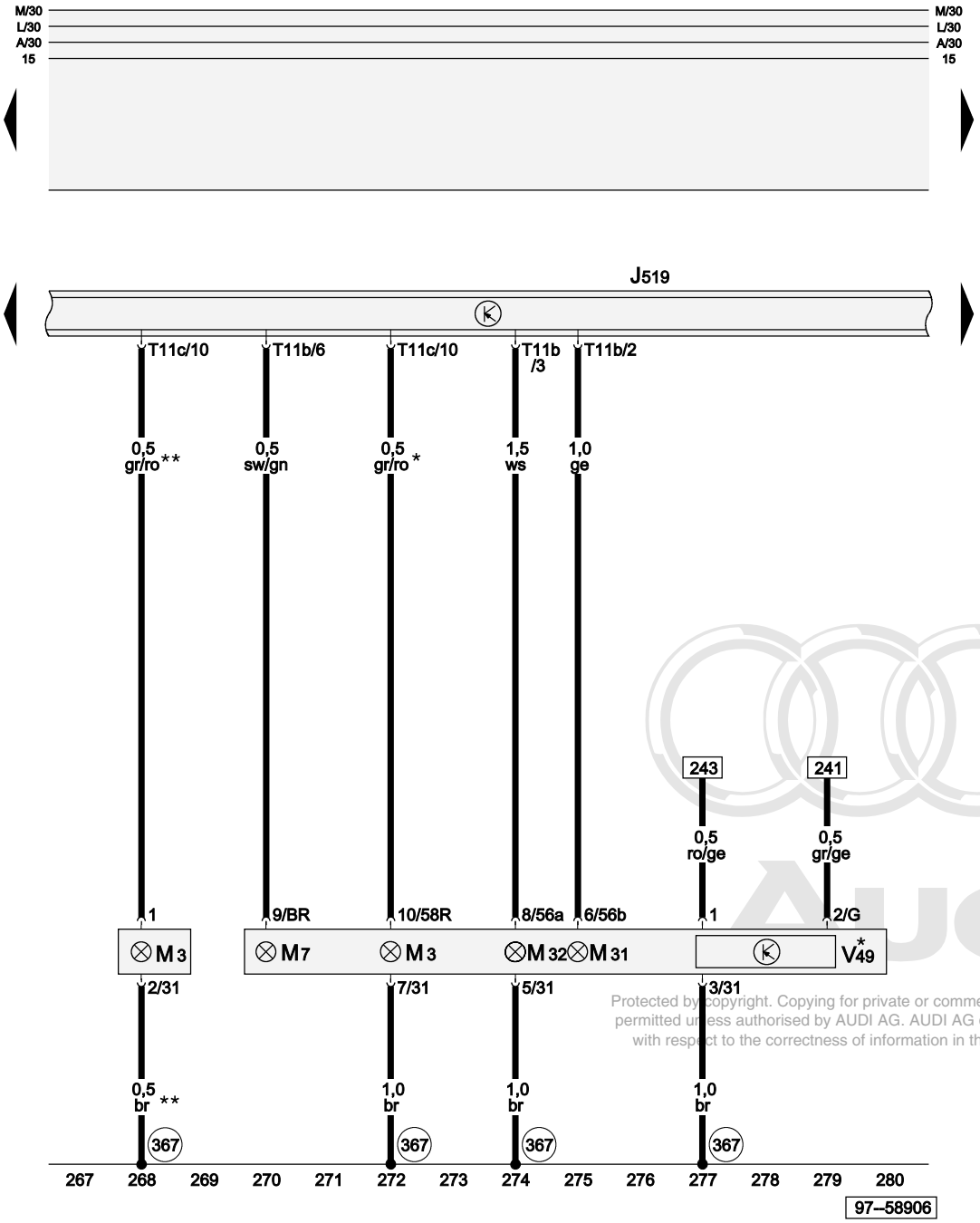


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Fog light, side repeater turn signals

J519	Onboard supply control unit
L22	Left fog light bulb
L23	Right fog light bulb
M18	Left side mounted turn signal bulb
M19	Right side mounted turn signal bulb
SB47	Fuse 47 on fuse holder
SB48	Fuse 48 on fuse holder
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
*	for models with front fog light only
**	for models with S line equipment only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

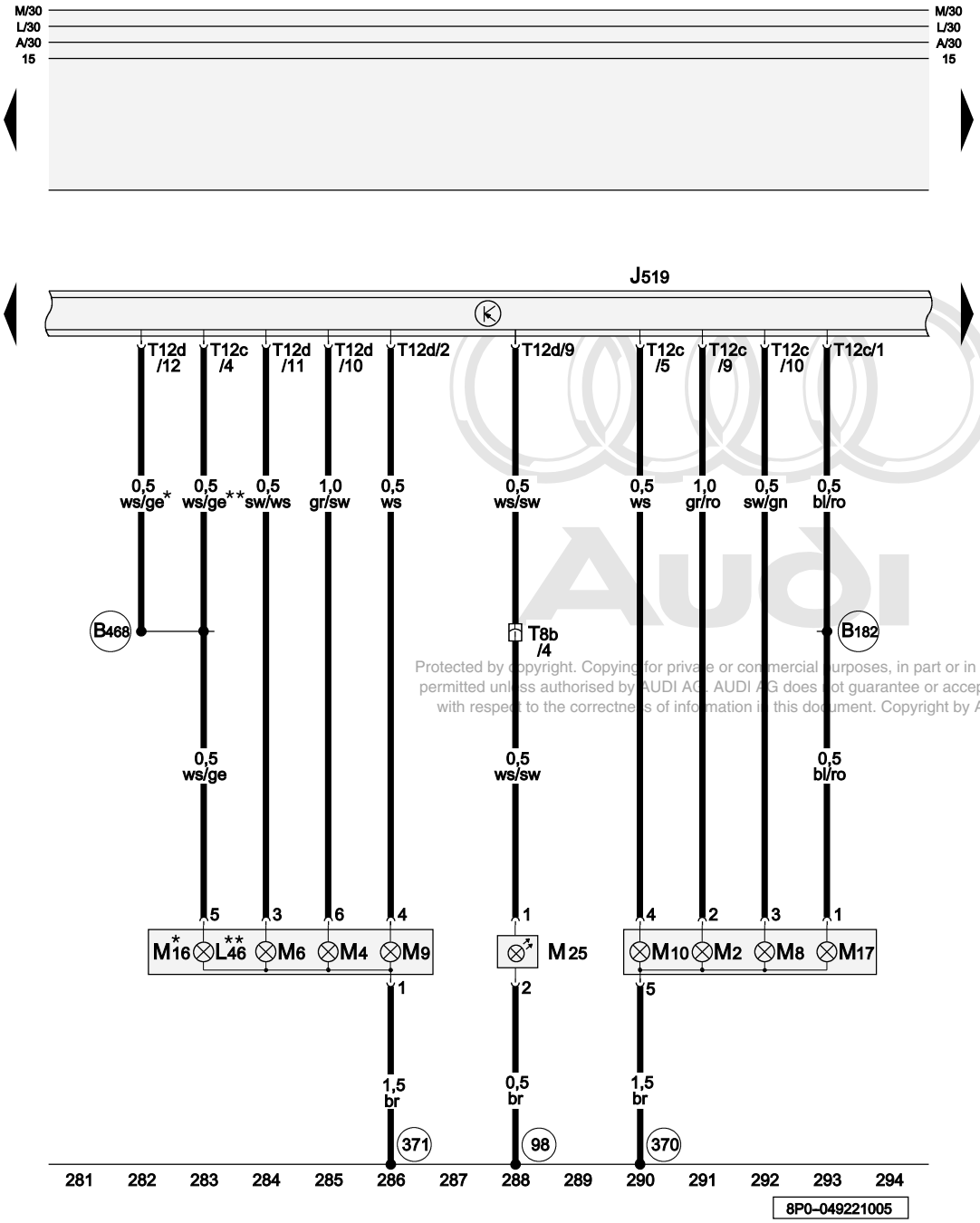


Front right headlight bulbs, right fog light

J519	Onboard supply control unit
M3	Right side light bulb
M7	Front right turn signal bulb
M31	Right dipped beam bulb
M32	Right main beam bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
V49	Right headlight range control motor
(367)	Earth connection 2, in main wiring harness
*	for models with headlight range control motor only
**	Not for models with headlight range control motor

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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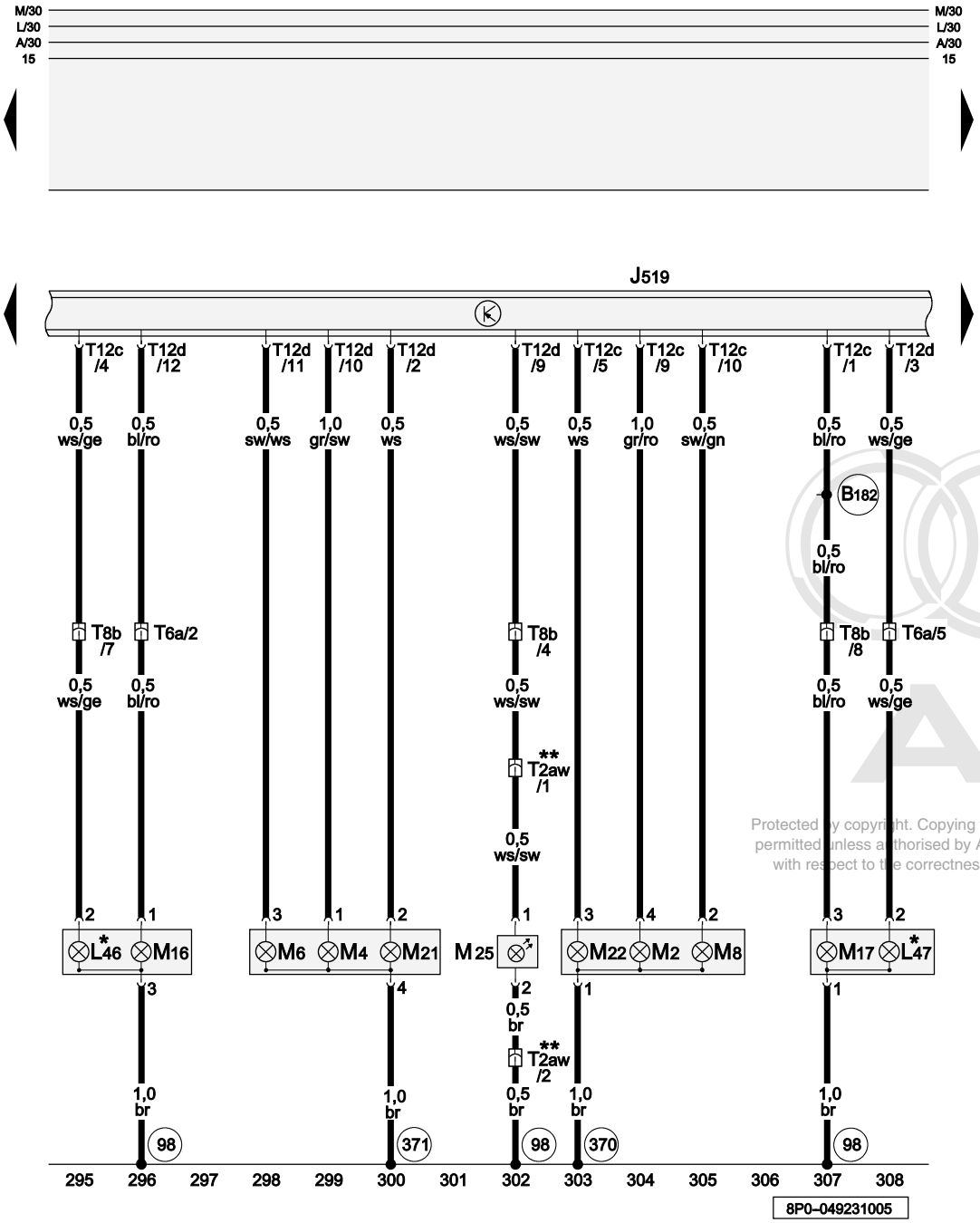


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

3-door models rear lid, tail light bulbs, turn signal, brake light, reversing light

J519	Onboard supply control unit
L46	Rear left fog light bulb
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M9	Left brake light bulb
M10	Right brake light bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M25	High level brake light bulb
T8b	8-pin connector, brown, on left C-pillar
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
98	Earth connection, in rear lid wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B182	Connection (RL), in interior wiring harness
B468	Connection 4, in main wiring harness
*	For Mexico only
**	Not for Mexico

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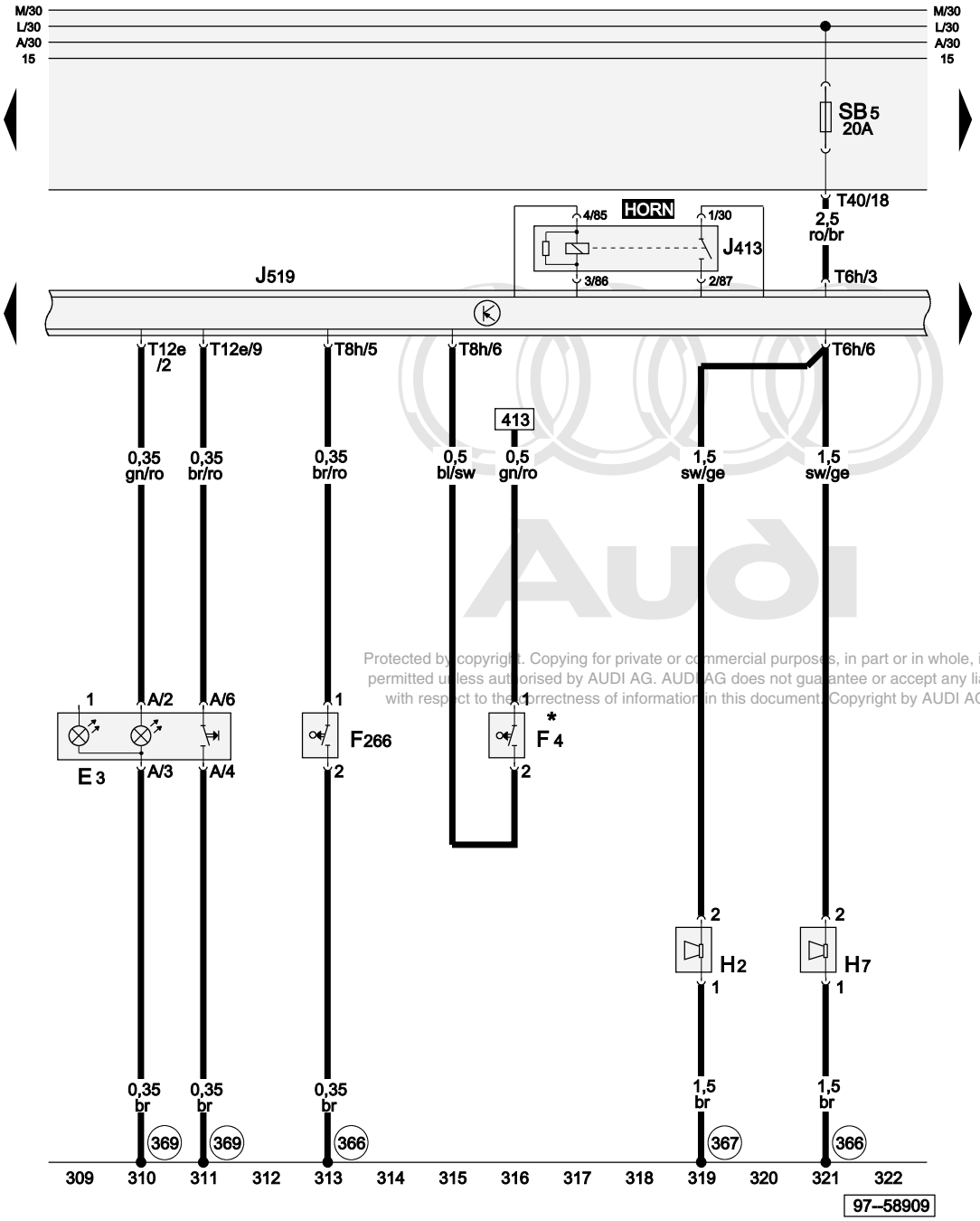


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

5-door models rear lid, tail light bulbs, turn signal, brake light, reversing light

J519	Onboard supply control unit
L46	Rear left fog light bulb
L47	Rear right fog light bulb
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M21	Left brake and tail light bulb
M22	Right brake and tail light bulb
M25	High level brake light bulb
T2aw	2-pin connector, black, on right in rear lid
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
98	Earth connection, in rear lid wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B182	Connection (RL), in interior wiring harness
*	for models with rear fog lights only
**	for models with S line equipment only

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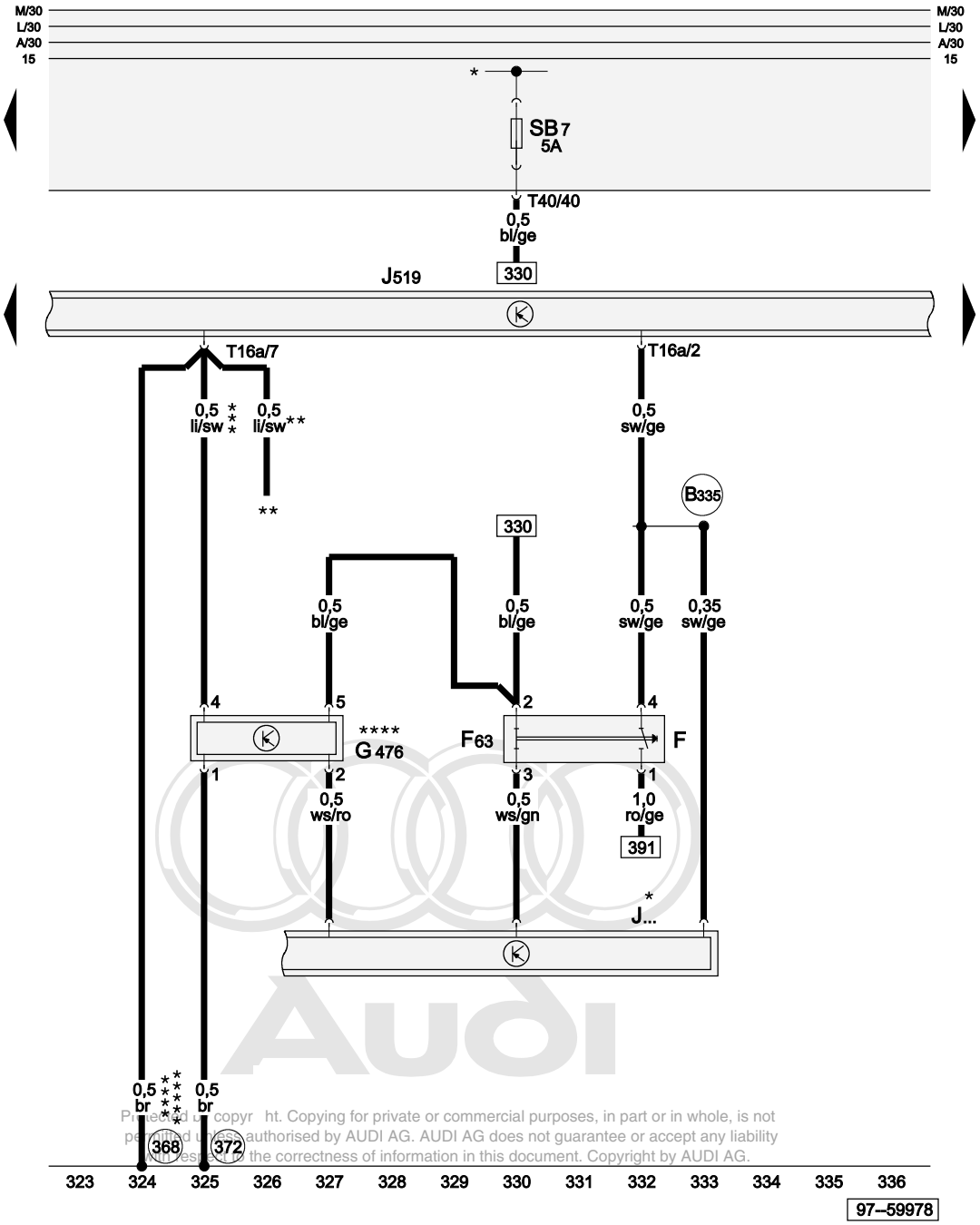


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br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Hazard warning light switch, treble tone horn, bass tone horn, reversing light switch

E3	Hazard warning light switch
F4	Reversing light switch
F266	Bonnet contact switch
H2	Treble tone horn
H7	Bass tone horn
J413	Horn relay
J519	Onboard supply control unit
SB5	Fuse 5 on fuse holder
T6h	6-pin connector, black (connector J)
T8h	8-pin connector, black (connector F)
T12e	12-pin connector, black (connector G)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
*	for models with manual gearbox only

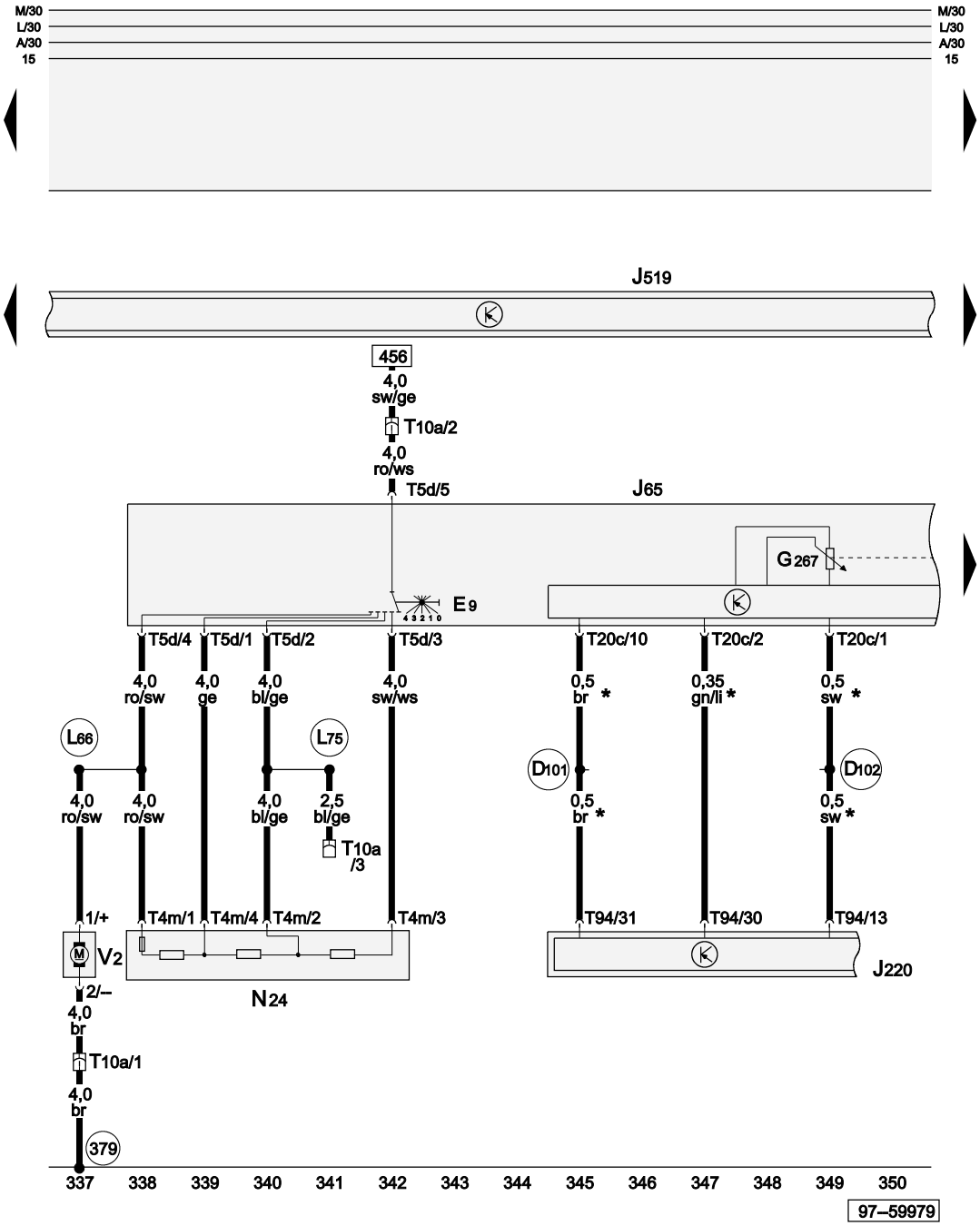


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Clutch travel sender, brake light switch

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J...	Engine control units
J519	Onboard supply control unit
SB7	Fuse 7 on fuse holder
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
368	Earth connection 3, in main wiring harness
372	Earth connection 7, in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable engine Current Flow Diagram
**	⇒ applicable Current Flow Diagram: automatic gearbox
***	For USA only
****	for models with manual gearbox only
*****	Not for USA

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



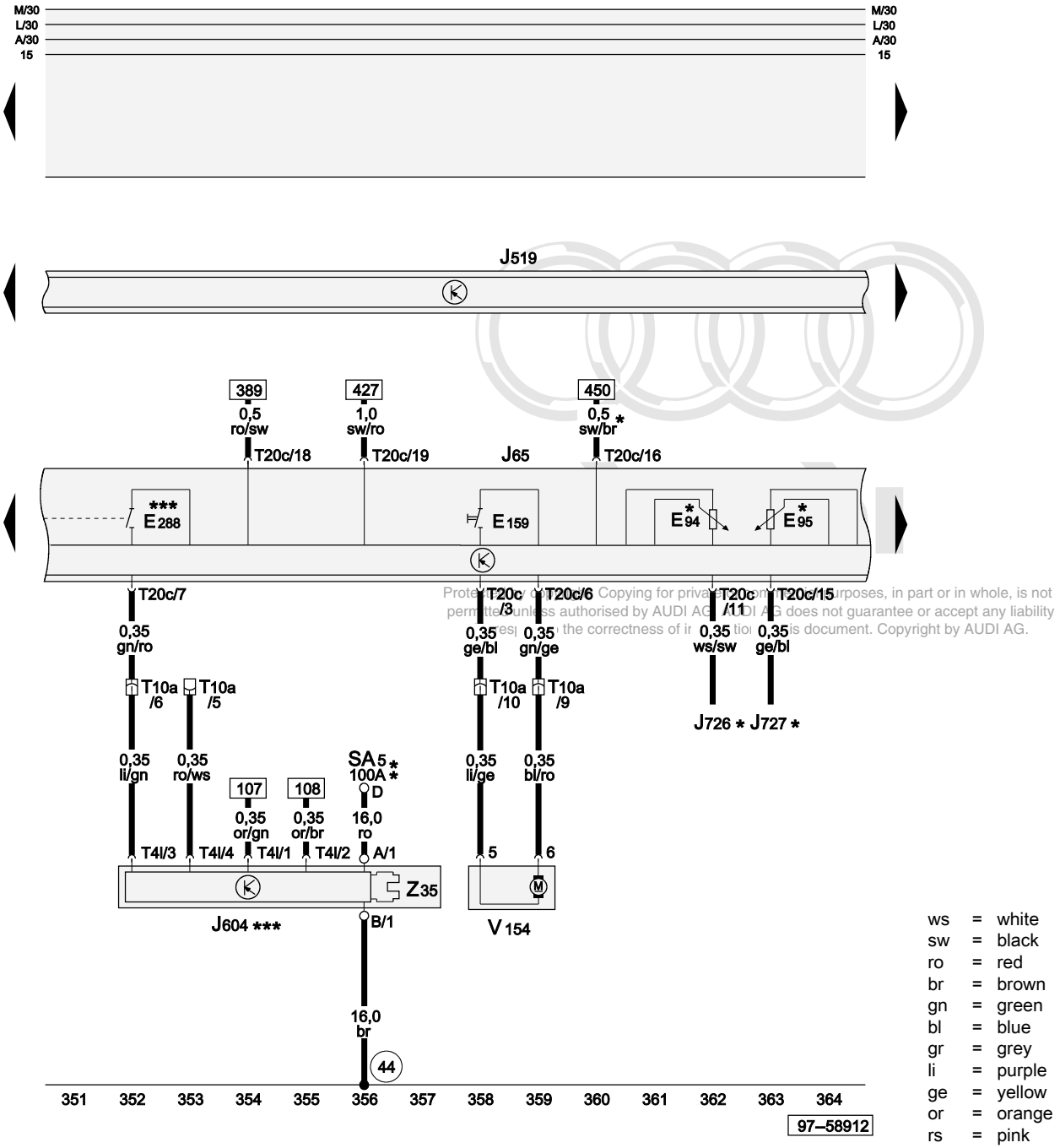
Fresh air blower switch, potentiometer for temperature selection rotary knob

E9	Fresh air blower switch
G267	Potentiometer for temperature selection rotary knob
J65	Heater control unit
J220	Motronic control unit
J519	Onboard supply control unit
N24	Fresh air blower series resistor with overheating fuse
T4m	4-pin connector, black (connector A)
T5d	5-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T20c	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V2	Fresh air blower
379	Earth connection 14, in main wiring harness
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness
L66	Connection, in heater blower wiring harness
L75	Connection 2, in heater blower wiring harness

* for models with FSI - fuel injection engine only

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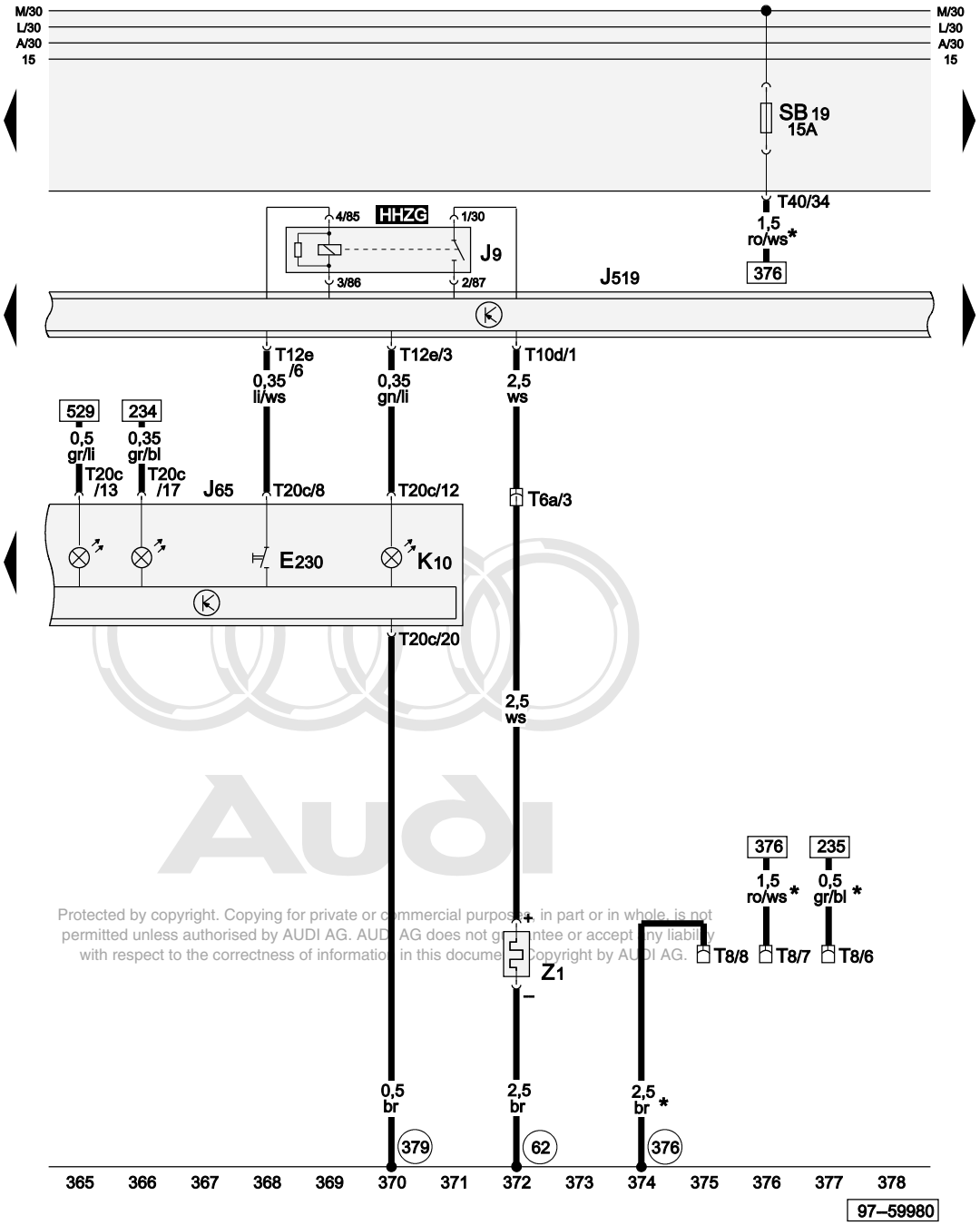


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Auxiliary heating heater element, fresh air and air recirculation flap switch, auxiliary heater economy (ECON) button

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
E159	Fresh air/air recirculation flap switch
E288	Auxiliary heater economy ECON button
J65	Heater control unit
J519	Onboard supply control unit
J604	Auxiliary air heater control unit
J726	Driver seat heating control unit
J727	Front passenger seat heating control unit
SA5	Fuse 5 on fuse holder on battery
T4l	4-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T20c	20-pin connector, black (connector A)
V154	Fresh air/recirculated air flap control motor
Z35	Auxiliary heater element
44	Earth point, lower part of left A-pillar
*	⇒ applicable Current Flow Diagram: seat heating
**	⇒ applicable Current Flow Diagram with battery in luggage compartment or engine compartment
***	for models with auxiliary air heater only

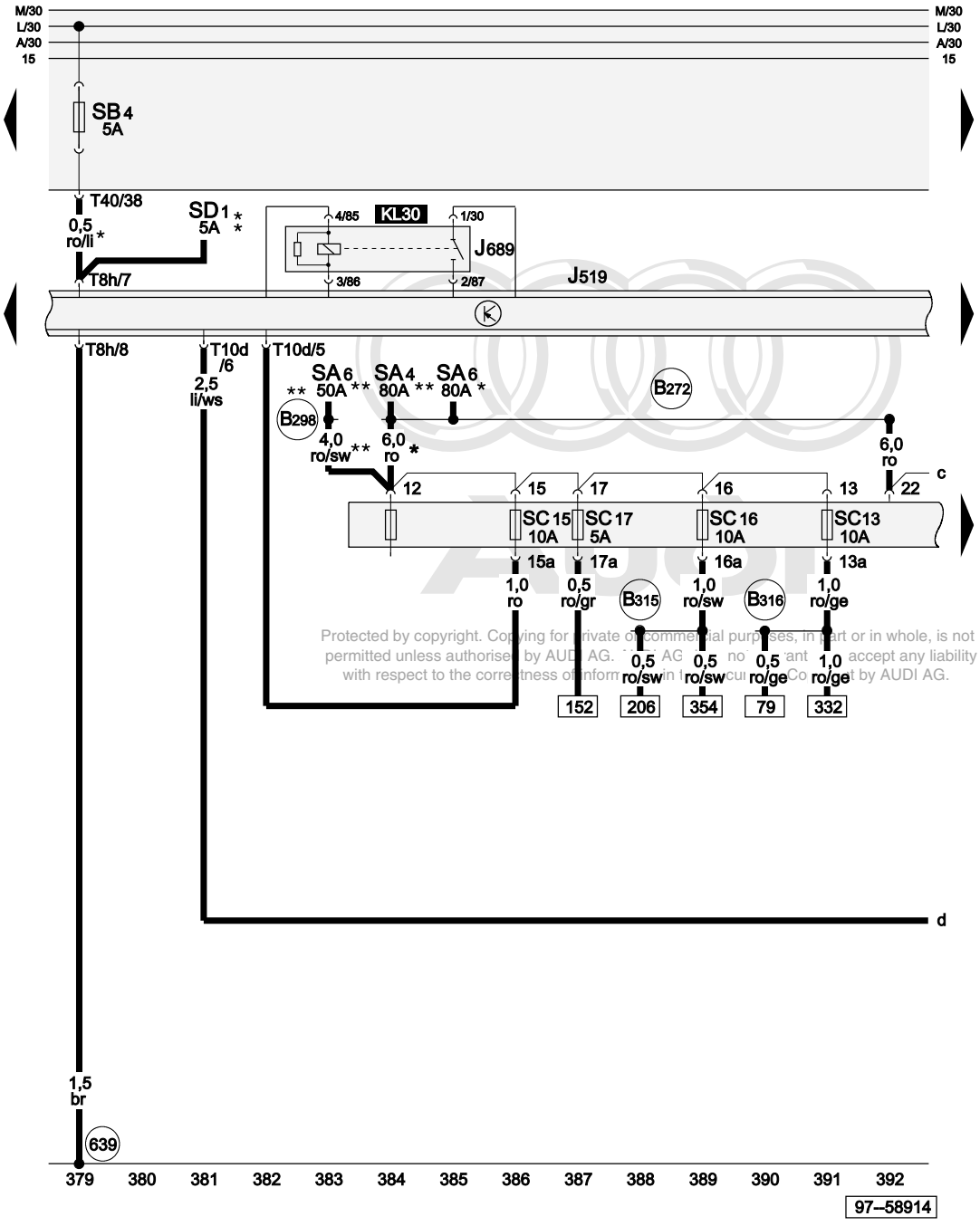


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Heated rear window button, heated rear window relay

E230	Heated rear window button
J9	Heated rear window relay
J65	Heater control unit
J519	Onboard supply control unit
K10	Heated rear window warning lamp
SB19	Fuse 19 on fuse holder
T6a	6-pin connector, black, on left C-pillar
T8	8-pin connector, black (connector A)
T10d	10-pin connector, black (connector K)
T12e	12-pin connector, black (connector G)
T20c	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
Z1	Heated rear window
62	Earth point, right C-pillar
376	Earth connection 11, in main wiring harness
379	Earth connection 14, in main wiring harness
*	with preparation for radio

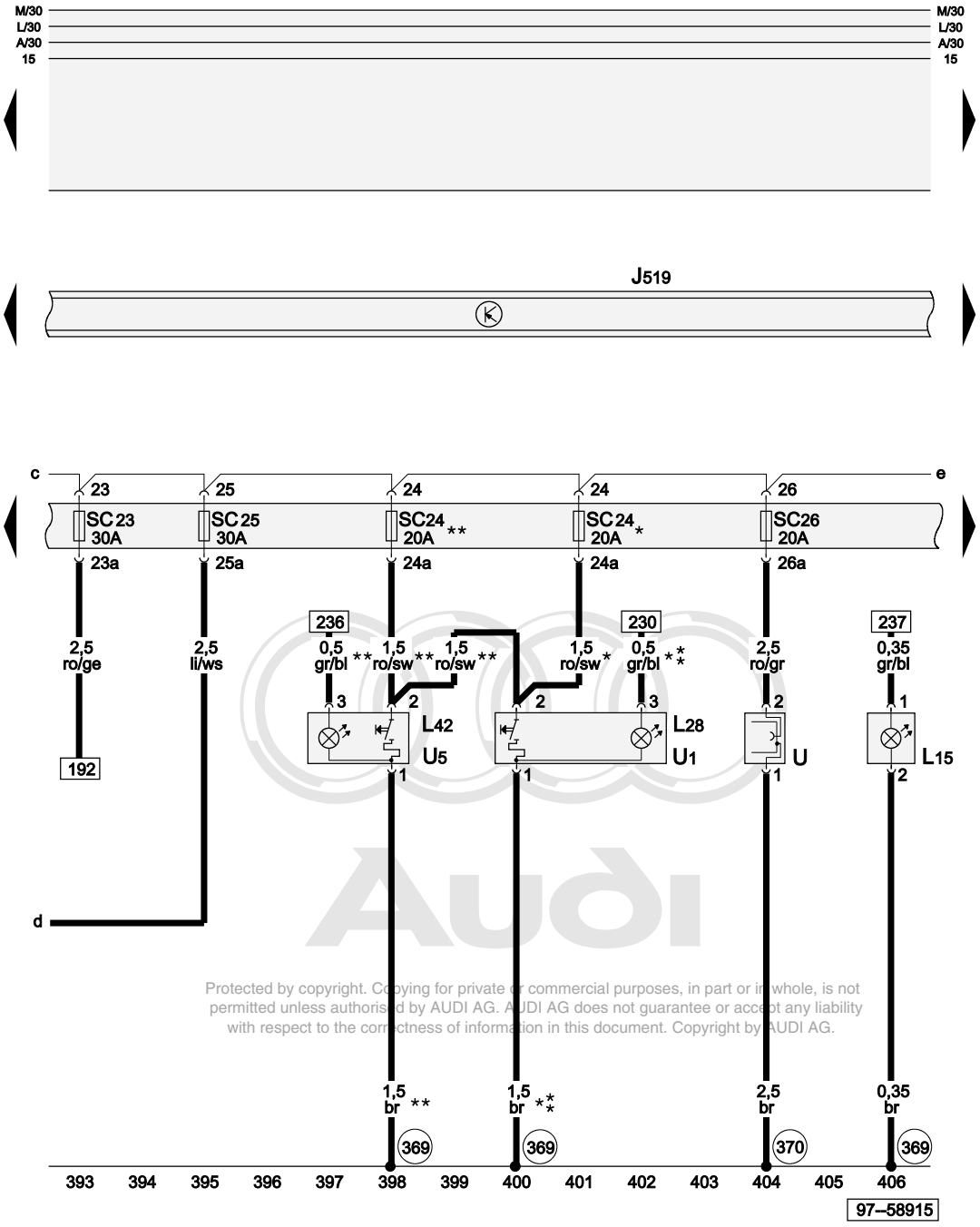


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Terminal 30 voltage supply relay 2, fuses on fuse holder

J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
SA4	Fuse 4 on fuse holder on battery
SA6	Fuse 6 on fuse holder on battery
SB4	Fuse 4 on fuse holder
SC13	Fuse 13 on fuse holder
SC15	Fuse 15 on fuse holder
SC16	Fuse 16 on fuse holder
SC17	Fuse 17 on fuse holder
SD1	Fuse 1 on fuse holder
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
(639)	Earth point, left A-pillar
(B272)	Positive connection (30), in main wiring harness
(B298)	Positive connection 2 (30), in main wiring harness
(B315)	Positive connection 1 (30a), in main wiring harness
(B316)	Positive connection 2 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	⇒ applicable Current Flow Diagram with battery in luggage compartment

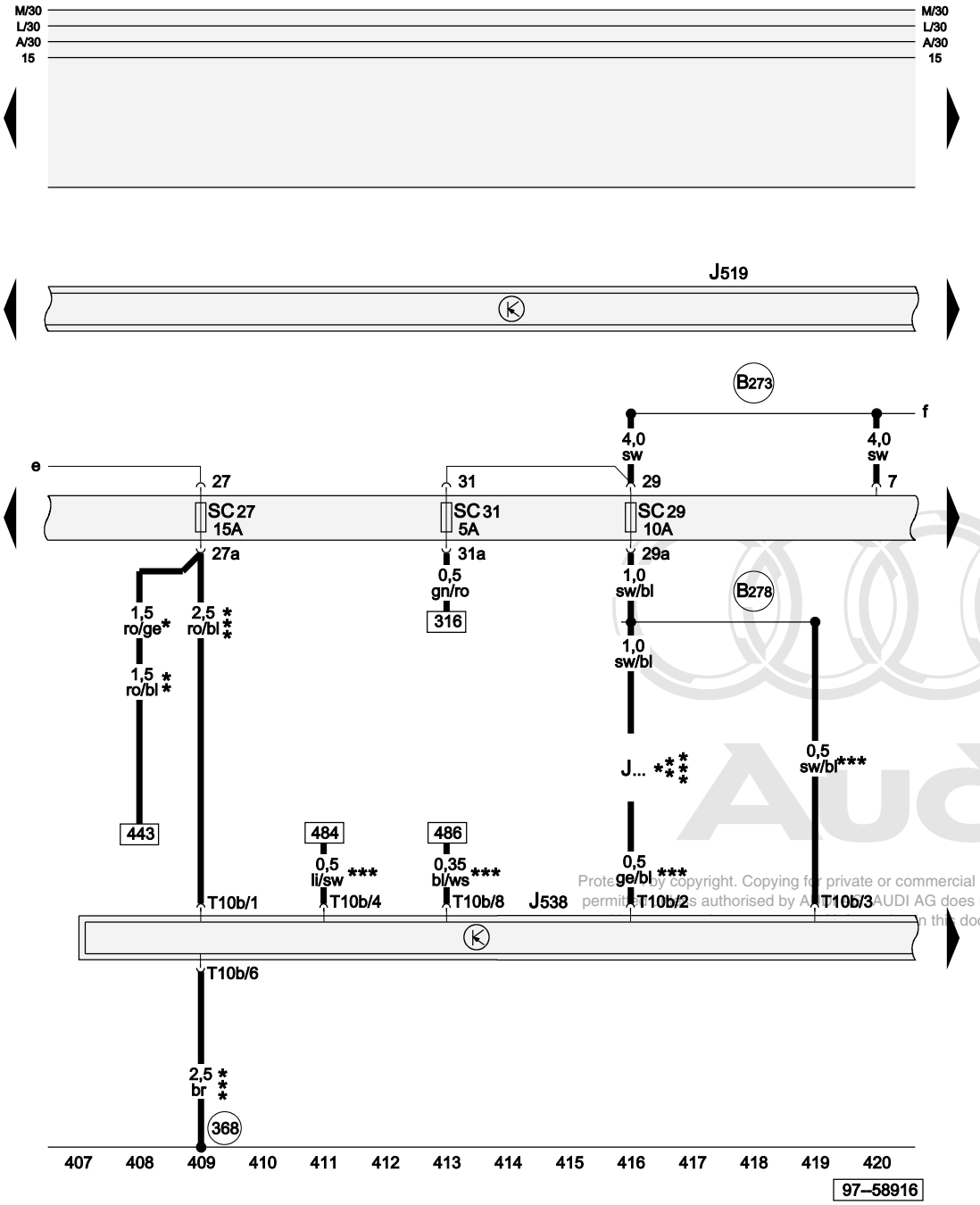


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Ashtray illumination, cigarette lighter illumination, fuses on fuse holder

J519	Onboard supply control unit
L15	Ashtray illumination bulb
L28	Cigarette lighter illumination bulb
L42	Socket illumination bulb
SC23	Fuse 23 on fuse holder
SC24	Fuse 24 on fuse holder
SC25	Fuse 25 on fuse holder
SC26	Fuse 26 on fuse holder
U	Electric socket
U1	Cigarette lighter
U5	12 V socket
369	Earth connection 4, in main wiring harness
370	Earth connection 5, in main wiring harness
*	for models without 12 V socket only
**	for models with 12 V socket only

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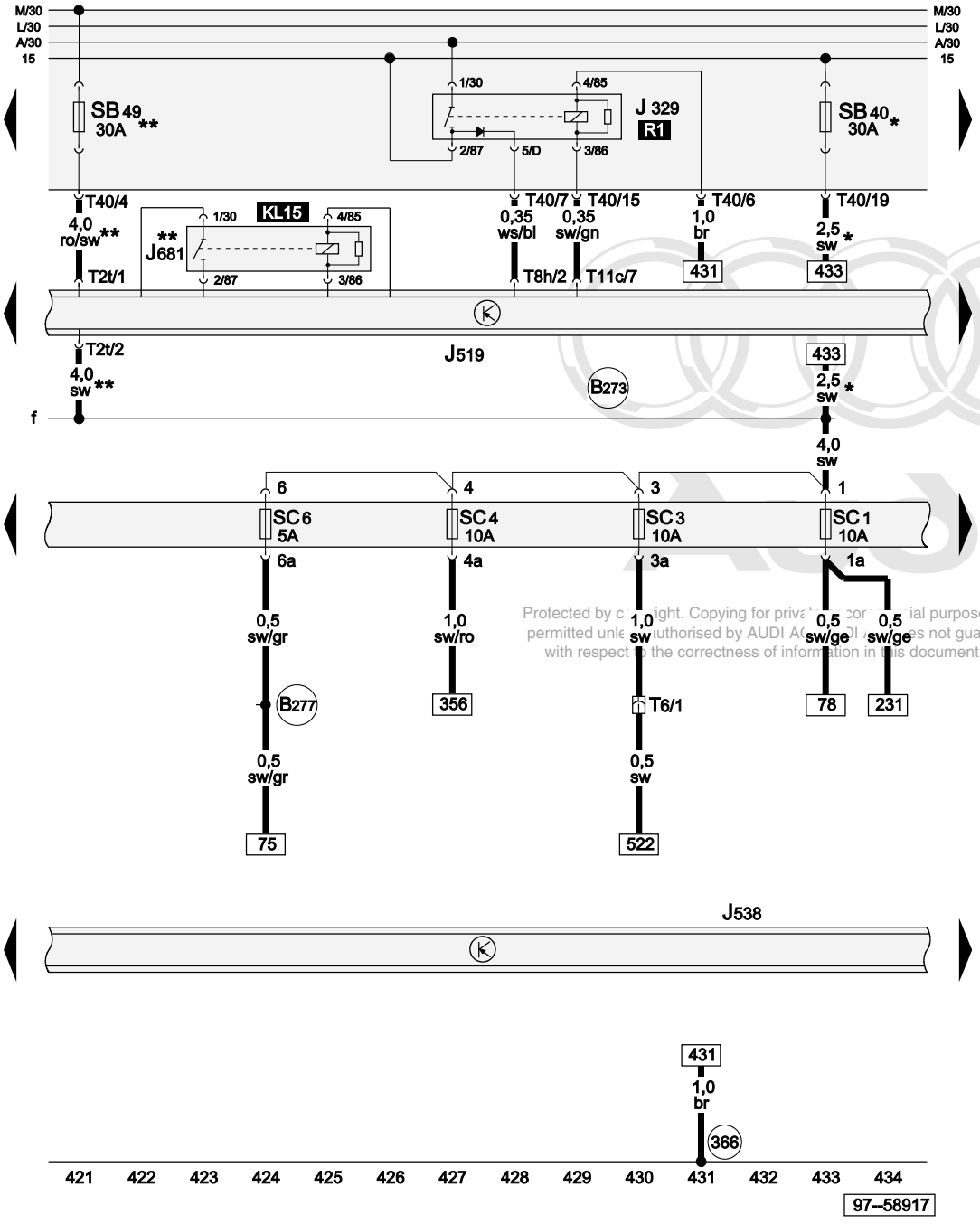


Fuel pump control unit, fuses on fuse holder

J...	Engine control units
J519	Onboard supply control unit
J538	Fuel pump control unit
SC27	Fuse 27 on fuse holder
SC29	Fuse 29 on fuse holder
SC31	Fuse 31 on fuse holder
T10b	10-pin connector, black (connector A)
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	for models with engine codes BKC, AZV, BKD only
**	for models with engine codes BGU, BDB, BMJ only
***	for models with FSI - fuel injection engine only

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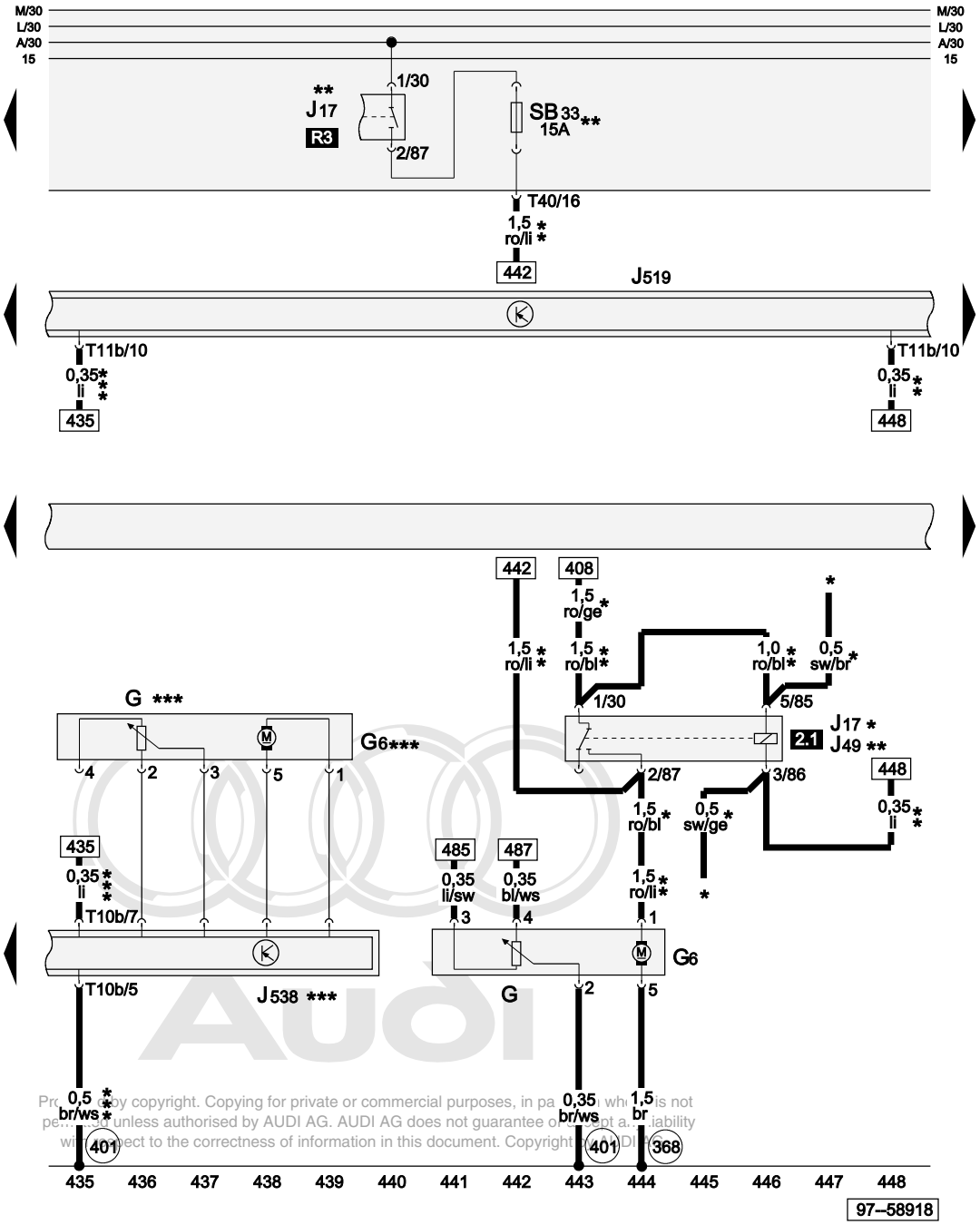


Terminal 15 voltage supply relay, fuses on fuse holder

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J538	Fuel pump control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC3	Fuse 3 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC6	Fuse 6 on fuse holder C
T2t	2-pin connector, black (connector L)
T6	6-pin connector, black, near longitudinal member, front left
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

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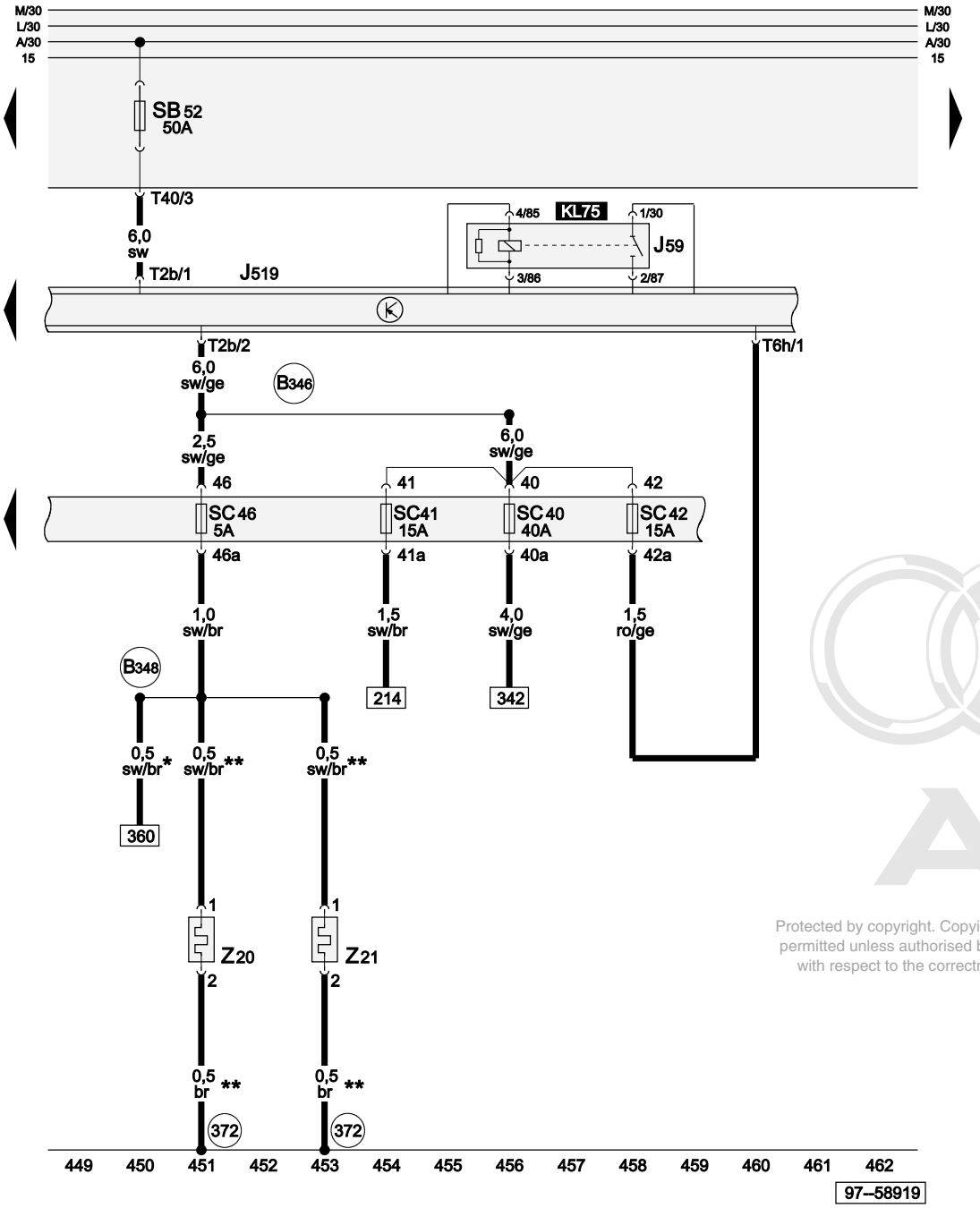


Fuel pump relay, fuel gauge sender, fuel pump

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J519	Onboard supply control unit
J538	Fuel pump control unit
SB33	Fuse 33 on fuse holder
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
(368)	Earth connection 3, in main wiring harness
(401)	Earth connection (sender earth), in interior wiring harness
*	for models with engine codes BKC, AZV, BKD, ⇒ applicable Current Flow Diagram
**	for models with engine codes BGU, BDB, BMJ, ⇒ applicable engine Current Flow Diagram
***	for models with FSI - fuel injection engine only

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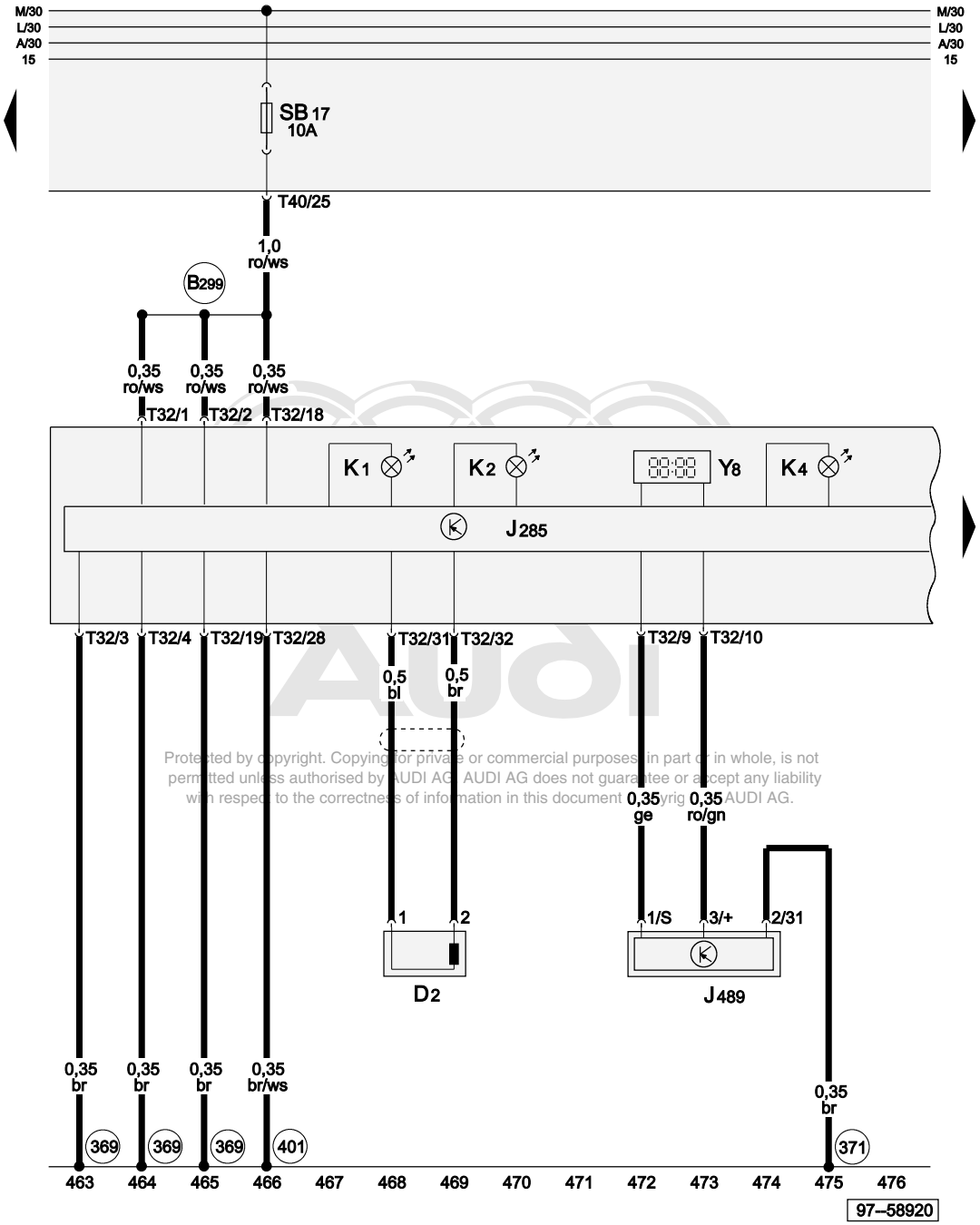


X-contact relief relay, fuses on fuse holder, left and right washer jet heater element

J59	X-contact relief relay
J519	Onboard supply control unit
SB52	Fuse 52 on fuse holder
SC40	Fuse 40 on fuse holder
SC41	Fuse 41 on fuse holder
SC42	Fuse 41 on fuse holder
SC46	Fuse 46 on fuse holder
T2b	2-pin connector, brown (connector I)
T6h	6-pin connector, black (connector J)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
Z20	Left washer jet heater element
Z21	Right washer jet heater element
372	Earth connection 7, in main wiring harness
B346	Connection 1 (75), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
*	for models with seat heating only
**	for models with washer jets heater element only

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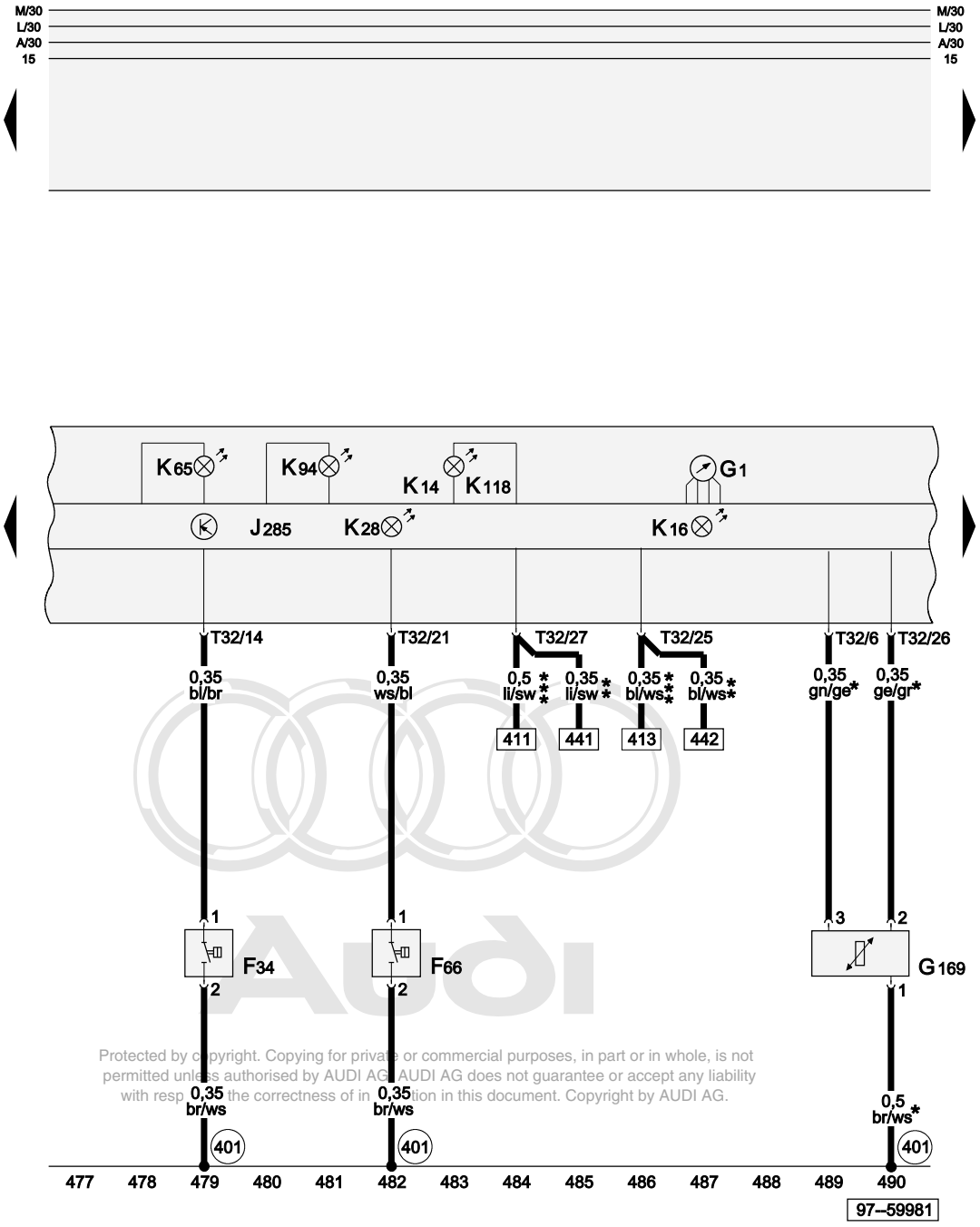


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Radio controlled clock receiver, immobilizer reader coil, control unit in dash panel insert

D2	Immobilizer reader coil
J285	Control unit in dash panel insert
J489	Radio controlled clock receiver
K1	Main beam warning lamp
K2	Alternator warning lamp
K4	Side light warning lamp
SB17	Fuse 17 on fuse holder
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
Y8	Radio controlled clock
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness

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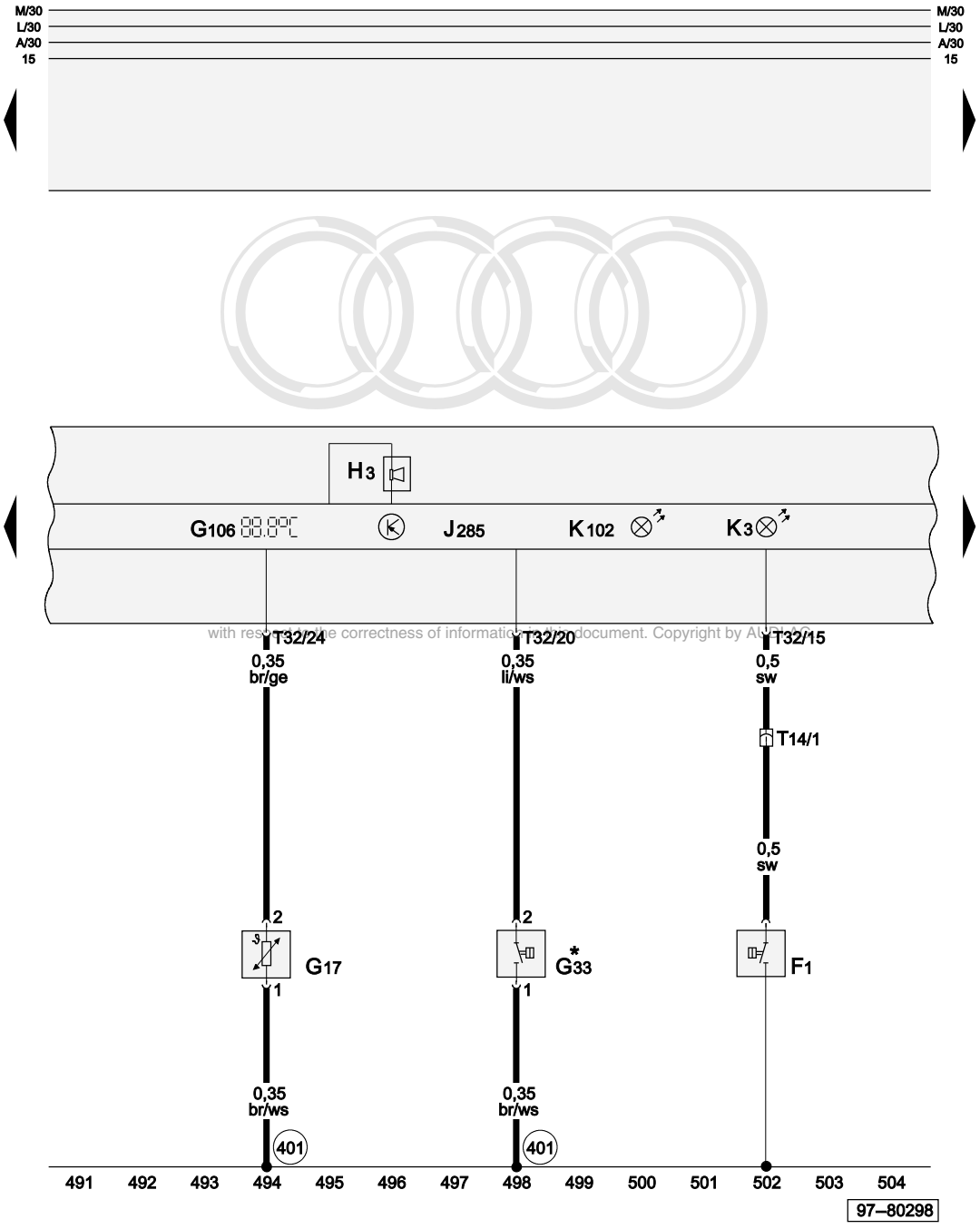


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Coolant shortage indicator switch, fuel gauge sender 2, control unit in dash panel insert

F34	Brake fluid level warning contact
F66	Coolant shortage indicator switch
G1	Fuel gauge
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
K14	Handbrake warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
T32	32-pin connector, blue (connector A)
(401)	Earth connection (sender earth), in interior wiring harness
*	for models with four-wheel drive only
**	for models with engine codes BGU, BDB, BMJ, BKC, AZV, BKD only
***	for models with FSI - fuel injection engine only

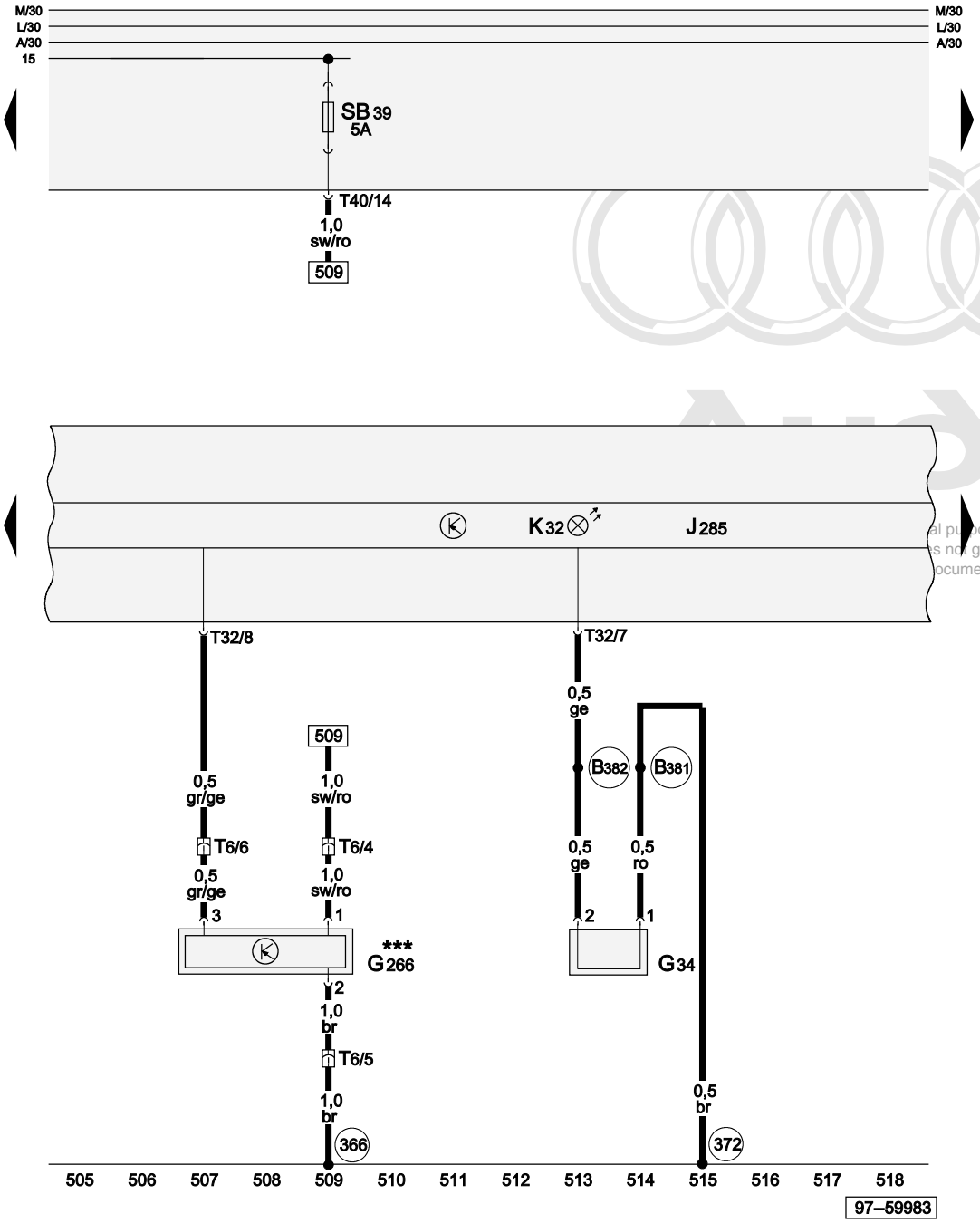


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Oil pressure switch, ambient temperature sensor, windscreen washer fluid level sender, control unit in dash panel insert

F1	Oil pressure switch
G17	Ambient temperature sensor
G33	Windscreen washer fluid level sender
G106	Ambient temperature indicator
H3	Buzzer and gong
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K102	Rear lid closed warning lamp
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
401	Earth connection (sender earth), in interior wiring harness
*	for models with windscreen washer fluid level sender/water level only

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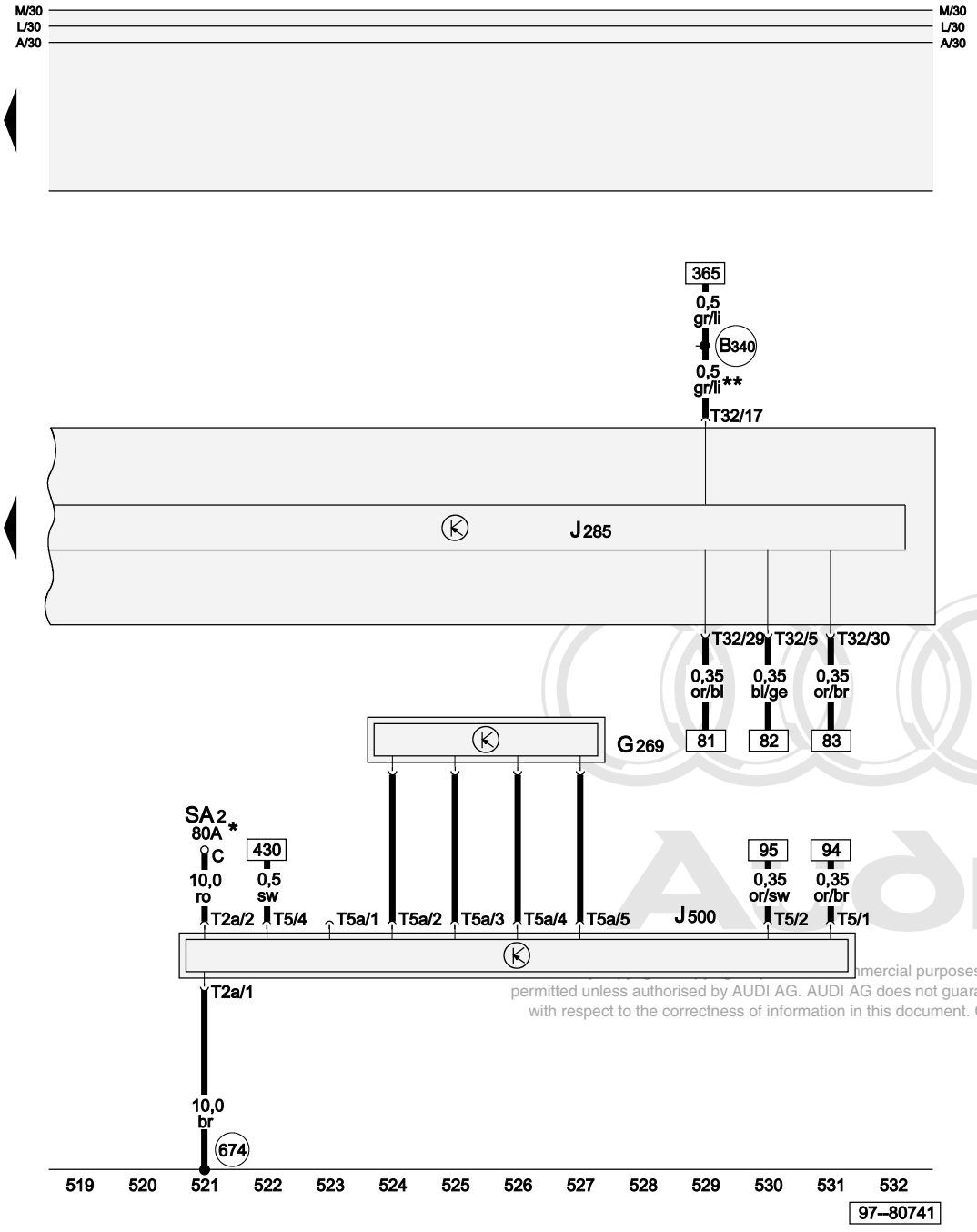


Front left brake pad wear sender, oil level and oil temperature sender, control unit in dash panel insert

G34	Front left brake pad wear sender
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K32	Brake pad warning lamp
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
372	Earth connection 7, in main wiring harness
B381	Connection 3 (brake wear indicator) in main wiring harness
B382	Connection 4 (brake wear indicator) in main wiring harness
***	for models with extended servicing intervals (ESI) only

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Power steering control unit, control unit in dash panel insert

G269	Steering moment sender
J285	Control unit in dash panel insert
J500	Power steering control unit
SA2	Fuse 2 on fuse holder on battery
T2a	2-pin connector, black (connector A)
T5	5-pin connector, white (connector C)
T5a	5-pin connector, black (connector B)
T32	32-pin connector, blue (connector A)
674	Earth point 4, on front of left longitudinal member
B340	Connection 1 (58d), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in luggage compartment or engine compartment
**	for models without air conditioning system and with automatic gearbox only

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Convenience system

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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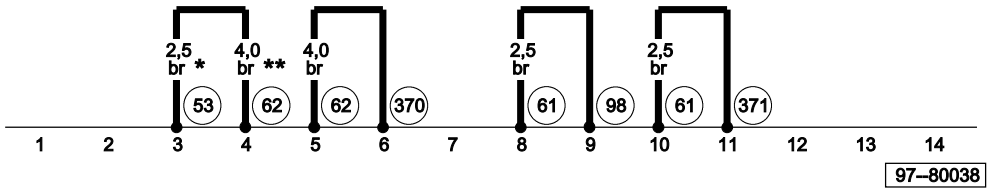


Earth points, earth connections

53	Earth point, on right in rear lid
61	Earth point, left C-pillar
62	Earth point, right C-pillar
98	Earth connection, in rear lid wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness

* for models without radio only
** for models with radio only

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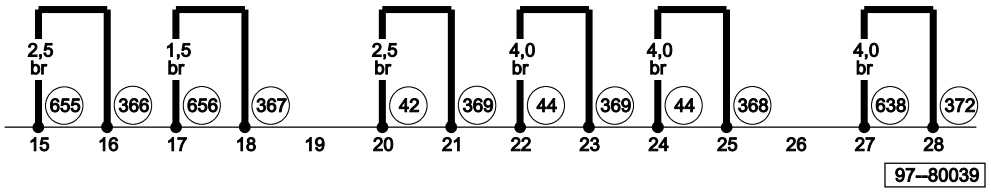
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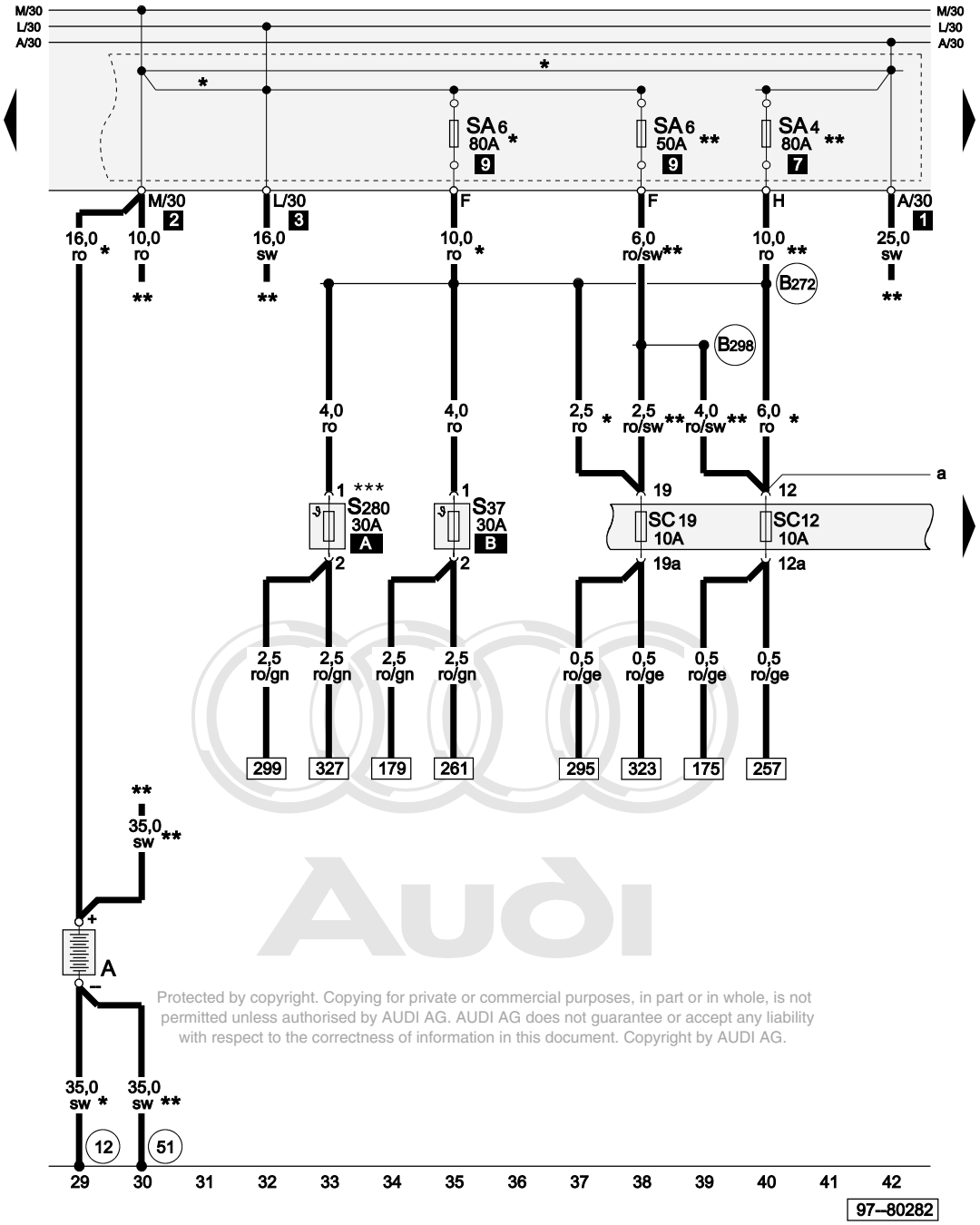
Earth points, earth connections

42	Earth point, next to steering column
44	Earth point, lower part of left A-pillar
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
655	Earth point, on left headlight
656	Earth point, on right headlight

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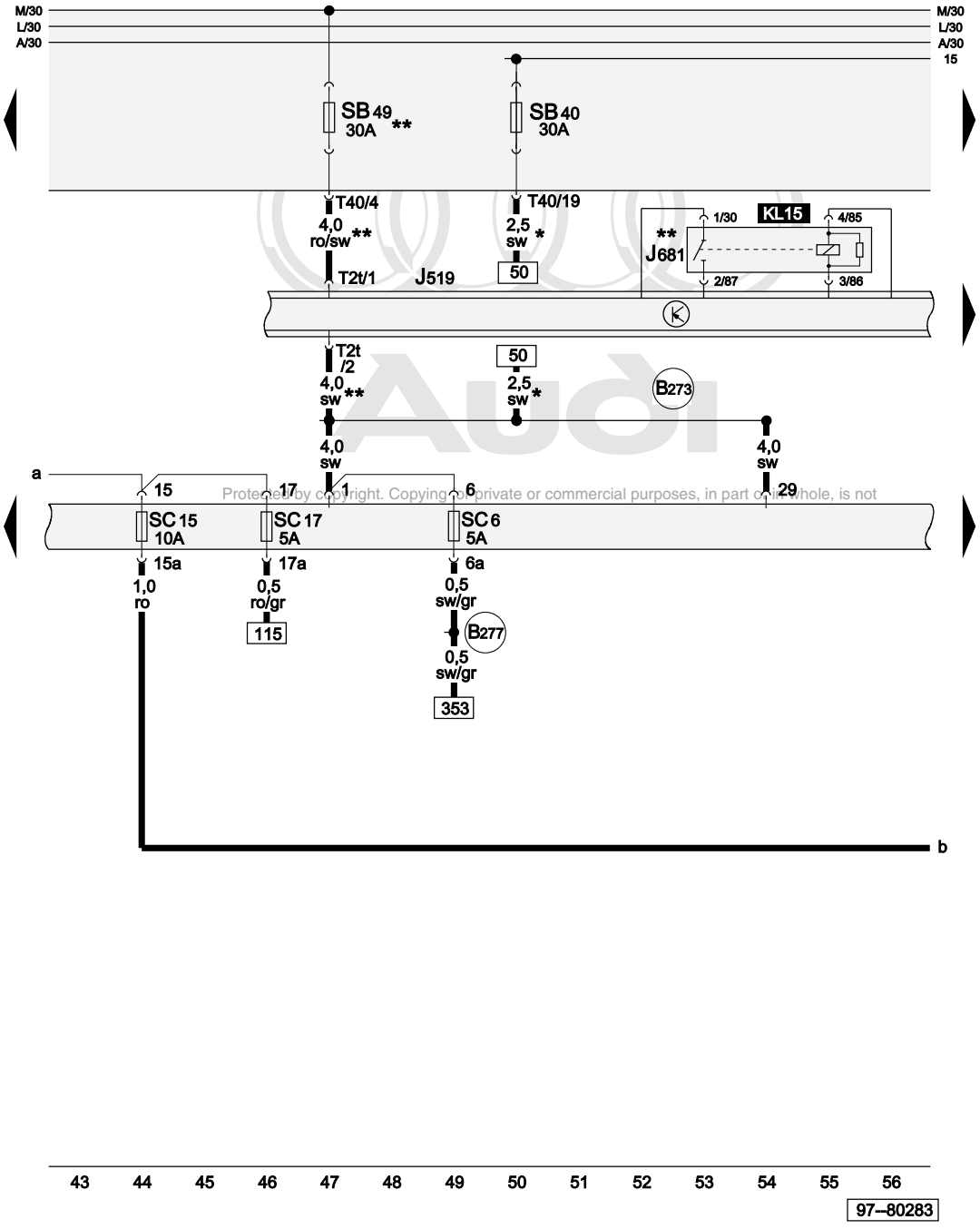


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Battery, window regulator single fuse

A	Battery
S37	Window regulator single fuse
S280	Window regulator single fuse 2
SA4	Fuse 4 on fuse holder on battery
SA6	Fuse 6 on fuse holder on battery
SC12	Fuse 12 on fuse holder
SC19	Fuse 19 on fuse holder
12	Earth point, on left in engine compartment
51	Earth point, on right in luggage compartment
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only
***	for models with 5-door models only

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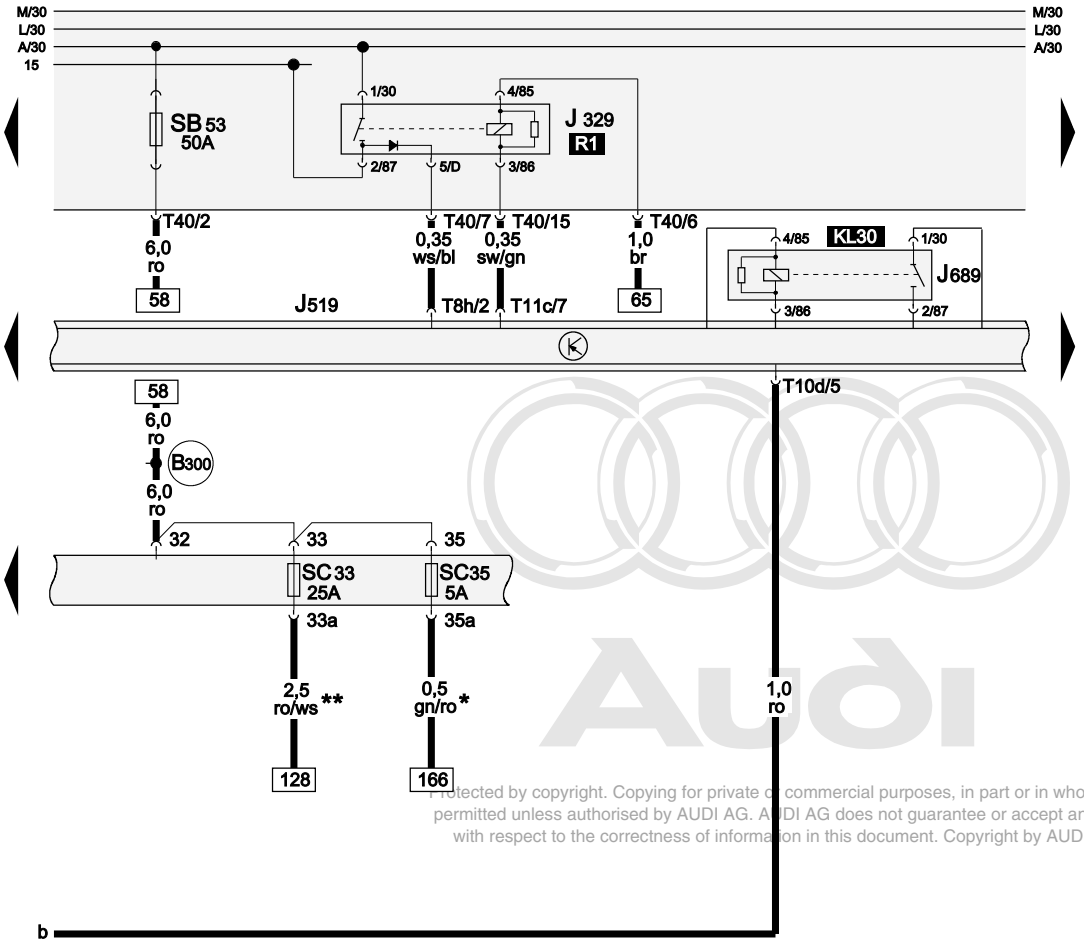


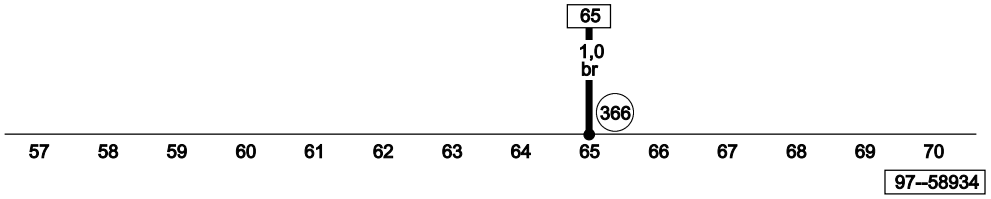
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Fuses on fuse holder, terminal 15 voltage supply relay 2

J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC6	Fuse 6 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC17	Fuse 17 on fuse holder C
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

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ro	=	red
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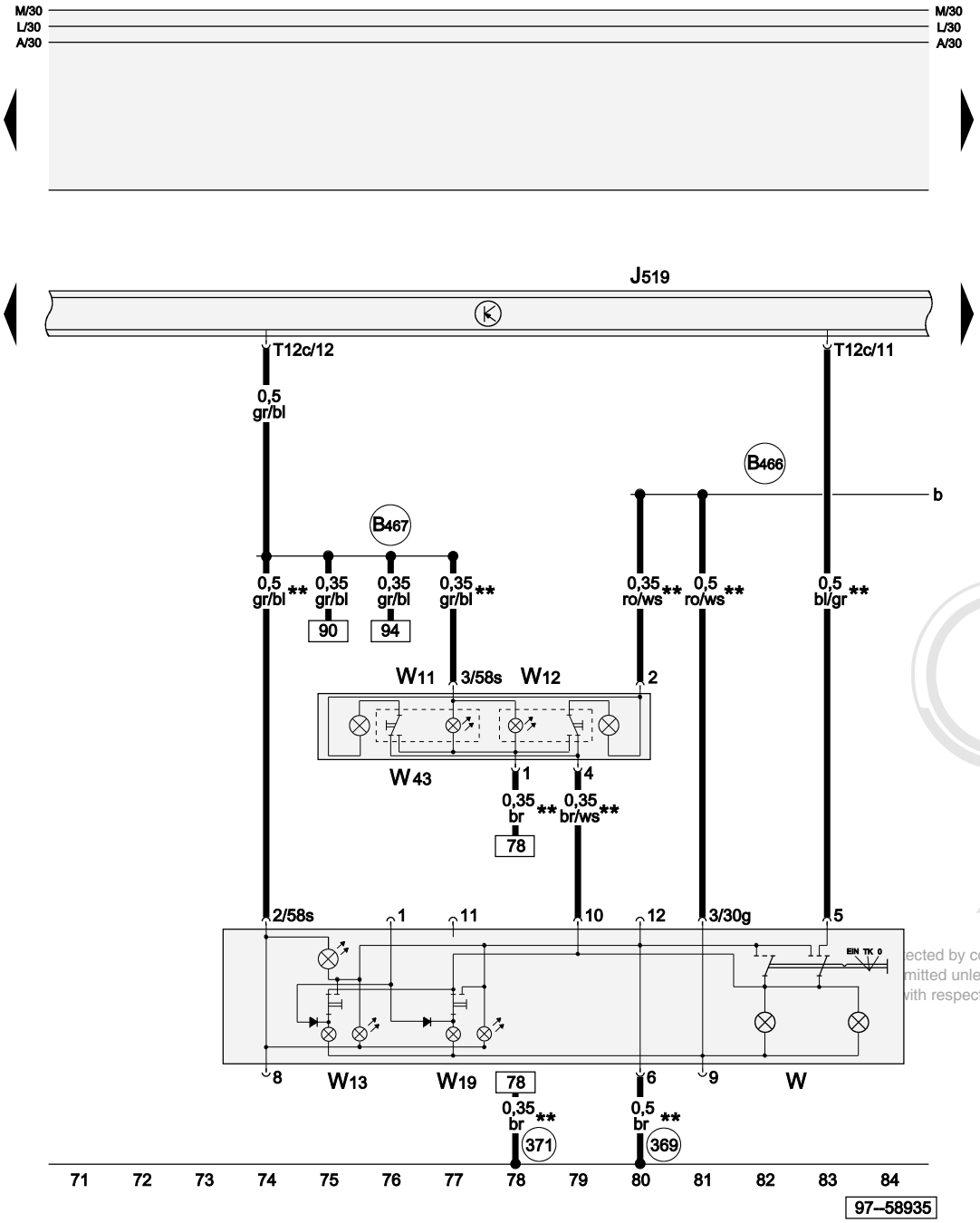


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Terminal 15 voltage supply relay, terminal 30 voltage supply relay 2

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
SB53	Fuse 53 on fuse holder
SC33	Fuse 33 on fuse holder
SC35	Fuse 35 on fuse holder
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
*	for models with anti-theft alarm system only
**	⇒ Applicable Current Flow Diagram: sliding/tilting sunroof

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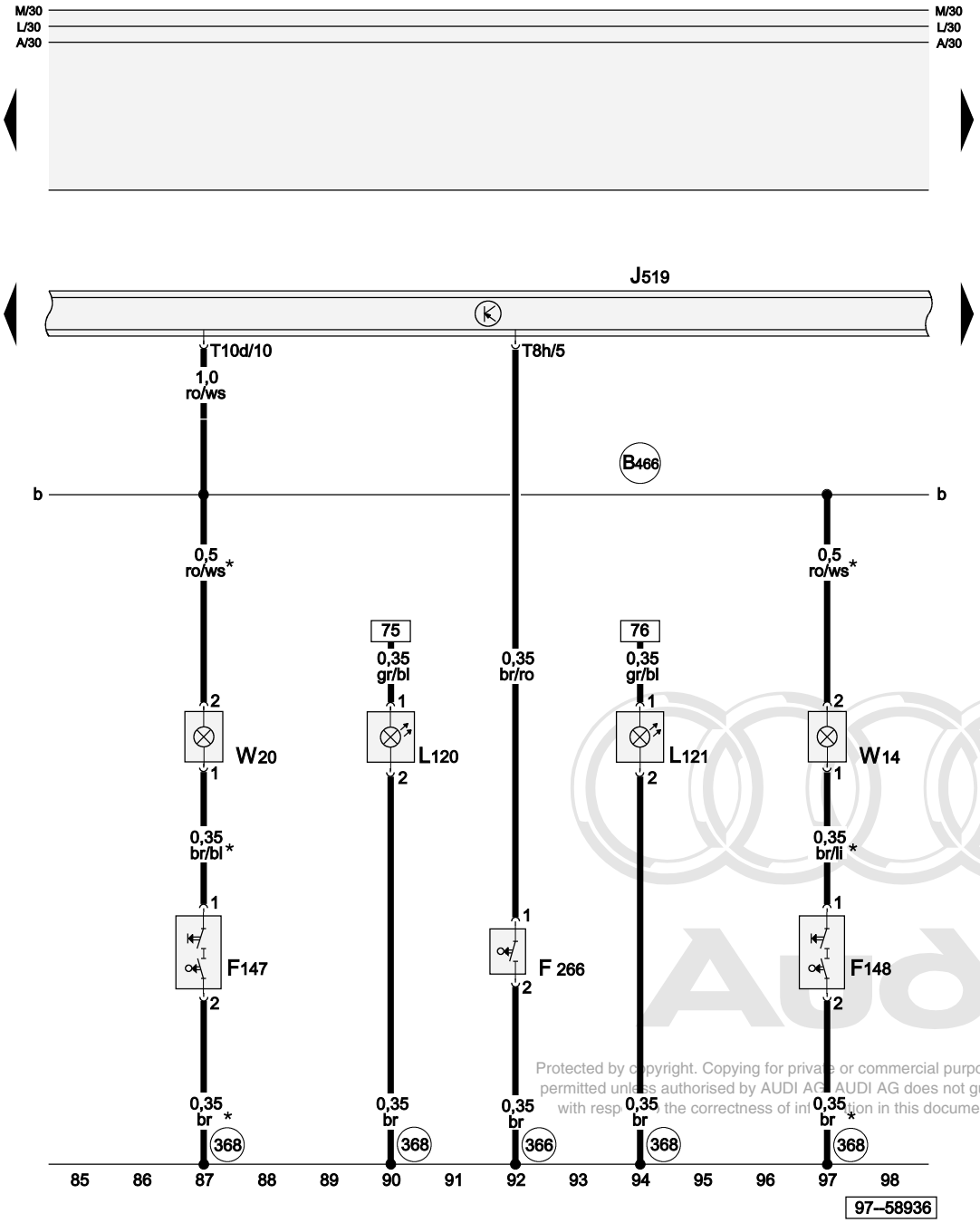


Interior light (front and rear) with reading lights

J519	Onboard supply control unit
T12c	12-pin connector, black (connector B)
W	Front interior light
W11	Rear left reading light
W12	Rear right reading light
W13	Front passenger side reading light
W19	Driver side reading light
W43	Rear interior light
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
B466	Connection 2, in main wiring harness
B467	Connection 3, in main wiring harness
**	for models with reading lights only

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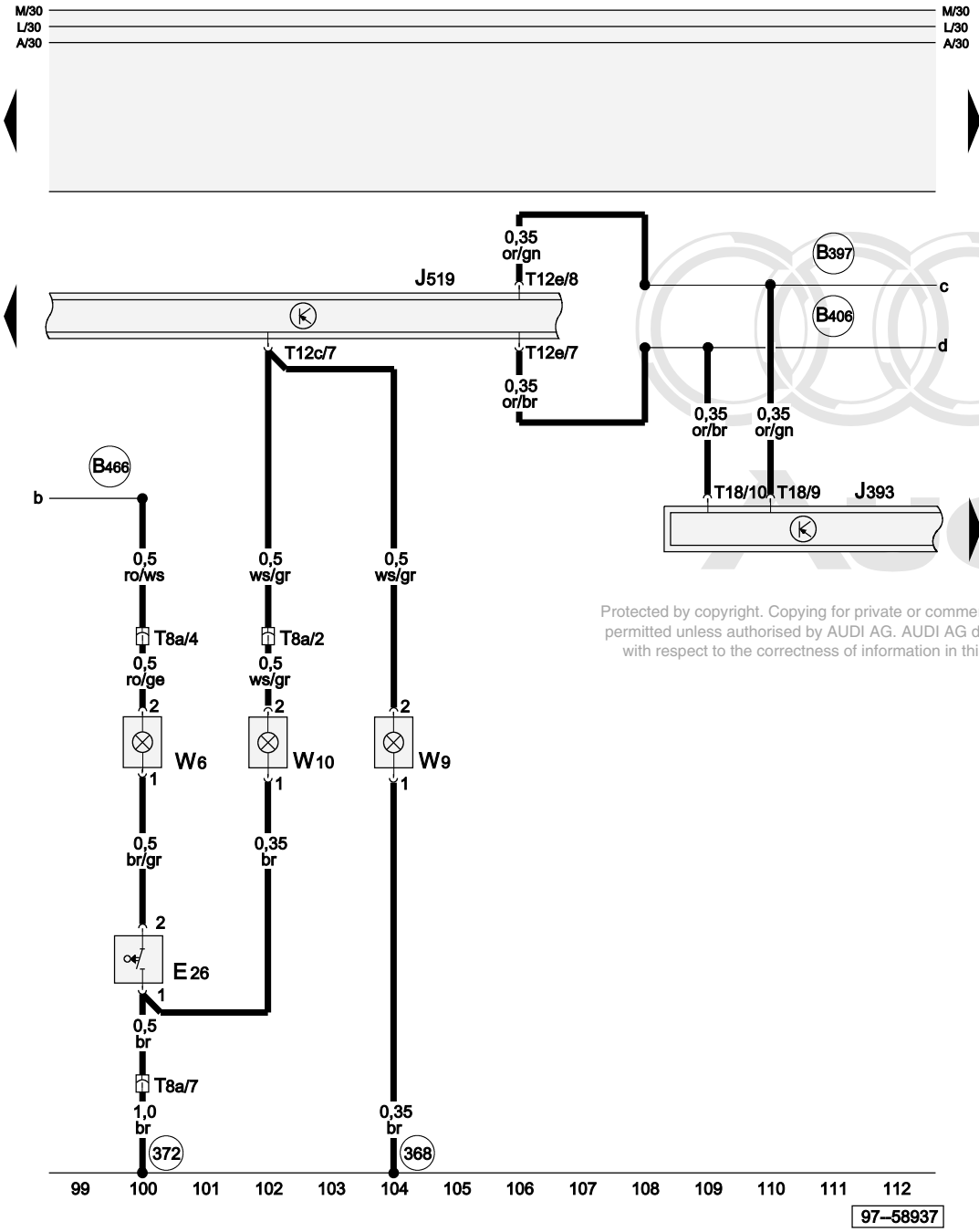


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Bonnet contact switch, vanity mirrors on driver and front passenger side

F147	Driver vanity mirror contact switch
F148	Front passenger side vanity mirror contact switch
F266	Bonnet contact switch
J519	Onboard supply control unit
L120	Storage compartment illumination bulb
L121	Cup holder illumination bulb
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
W14	Front passenger side illuminated vanity mirror
W20	Driver side illuminated vanity mirror
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
B466	Connection 2, in main wiring harness
*	for models with illuminated vanity mirror without garage door operation only

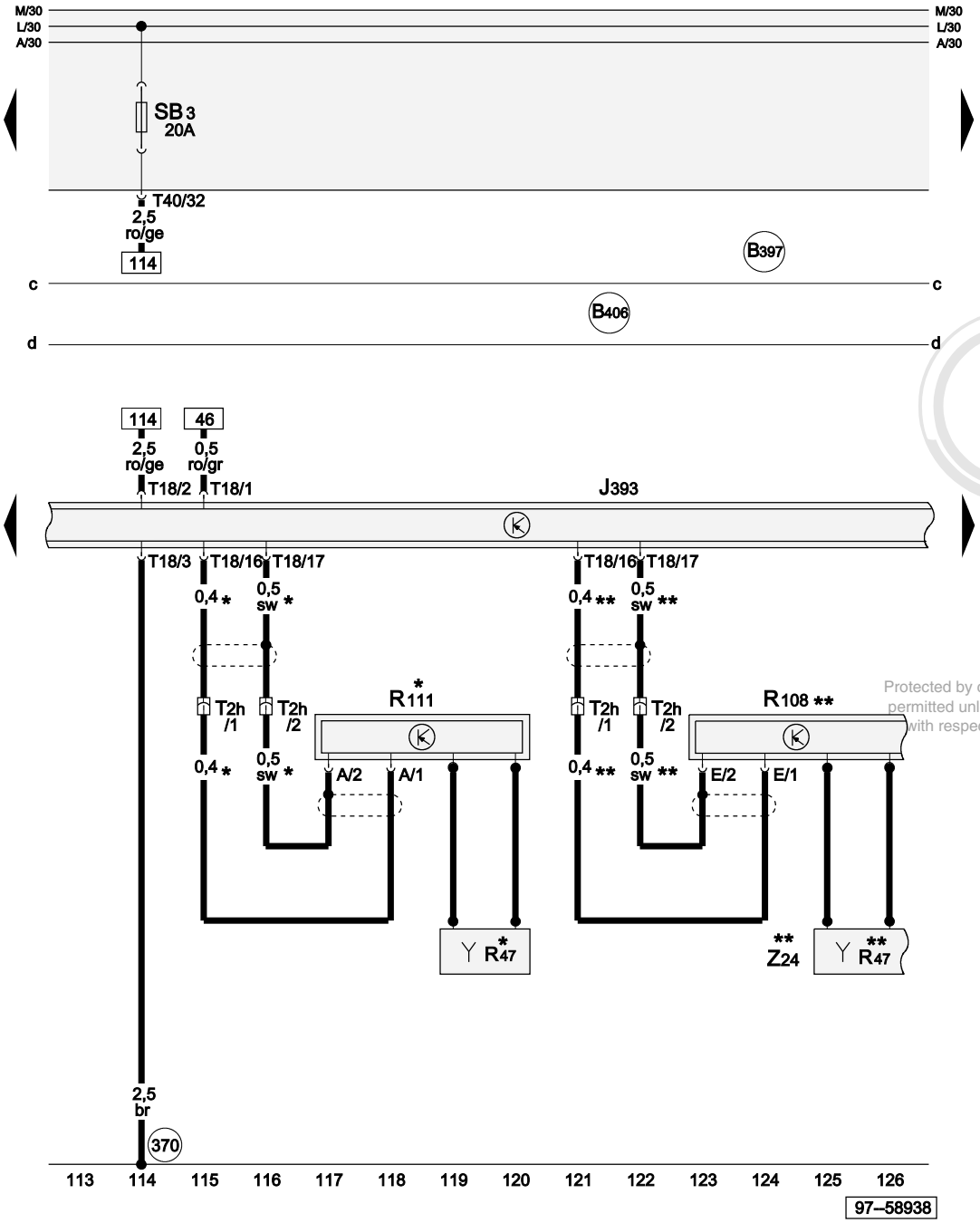


Left and right footwell light, glove compartment light

E26	Glove compartment light switch
J393	Convenience system central control unit
J519	Onboard supply control unit
T8a	8-pin connector, black, near glove compartment
T12c	12-pin connector, black (connector B)
T12e	12-pin connector, black (connector G)
T18	18-pin connector, brown (connector A)
W6	Glove compartment light
W9	Left footwell light
W10	Right footwell light
368	Earth connection 3, in main wiring harness
372	Earth connection 7, in main wiring harness
B466	Connection 2, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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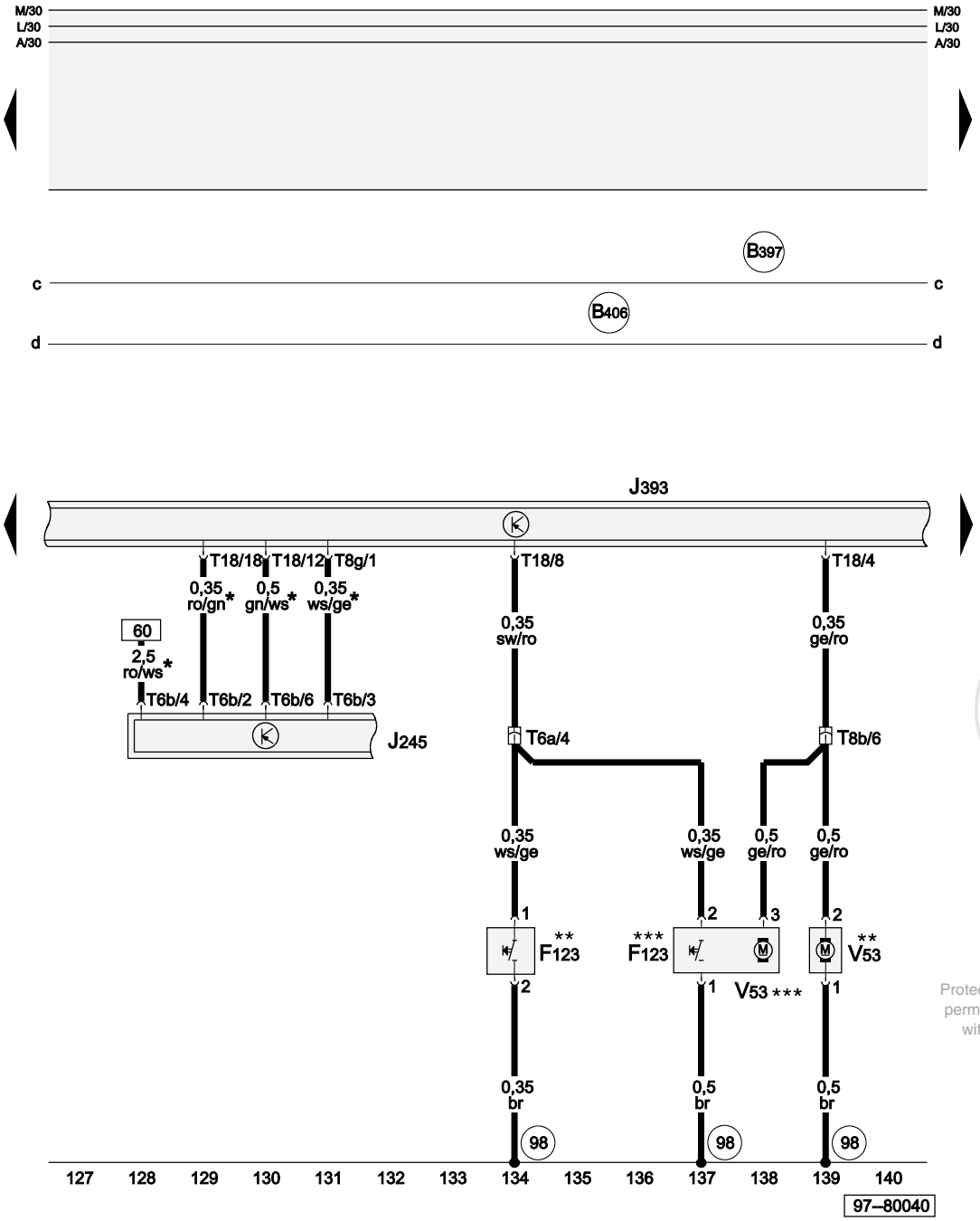


Central locking and anti-theft alarm system aerial

J393	Convenience system central control unit
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R111	Aerial amplifier 2
SB3	Fuse 3 on fuse holder
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
Z24	Heated rear window with window aerial
370	Earth connection 5, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models without radio only
**	for models with radio only

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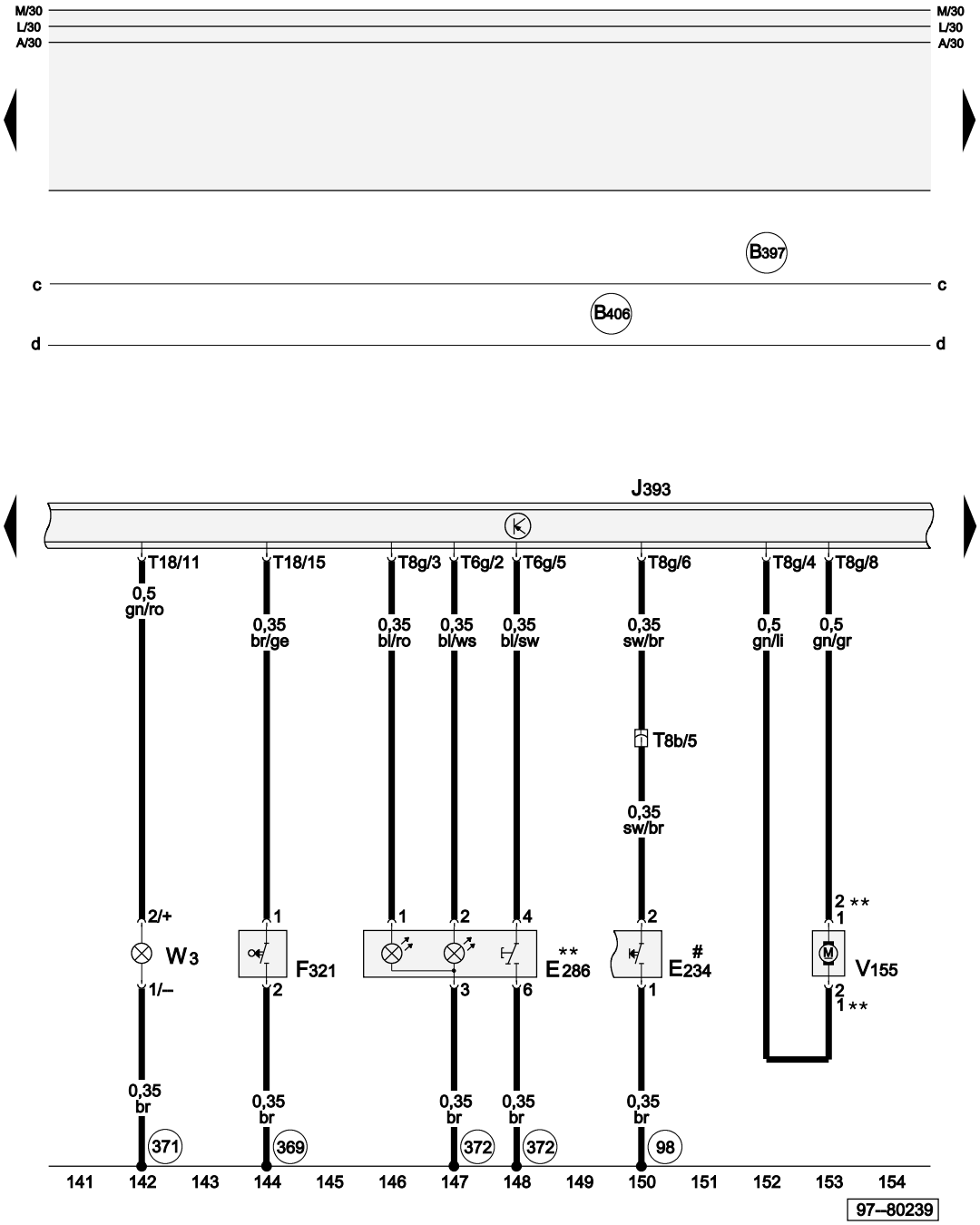


Rear lid central locking motor

F123	Rear lid contact switch for anti-theft alarm system
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
T6a	6-pin connector, black, on left C-pillar
T6b	6-pin connector, blue, sunroof, near interior light
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T18	18-pin connector, brown (connector A)
V53	Rear lid central locking motor
98	Earth connection, in rear lid wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	⇒ Applicable Current Flow Diagram: sliding/tilting sunroof
**	for models with 3-door models only
***	for models with 5-door models only

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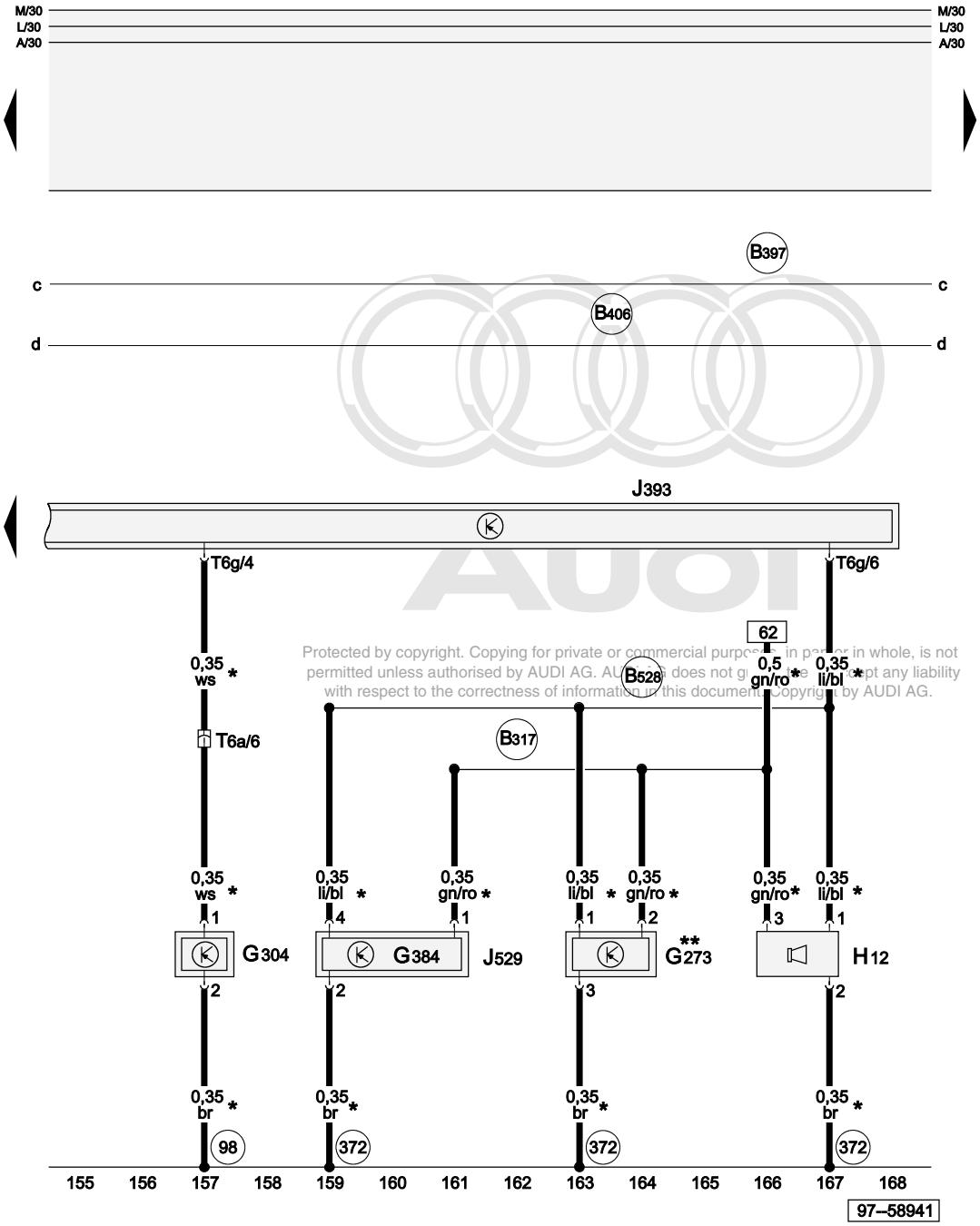
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bl = blue
gr = grey
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Parking brake contact switch, tank filler flap locking motor, luggage compartment light

E234	Rear lid handle release button
E286	Rear central switch for interior locking
F321	Parking brake contact switch
J393	Convenience system central control unit
T6g	6-pin connector, black (connector E)
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T18	18-pin connector, brown (connector A)
V155	Tank filler flap locking motor
W3	Luggage compartment light
98	Earth connection, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
372	Earth connection 7, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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\# F248 is replaced by E234
** For USA only

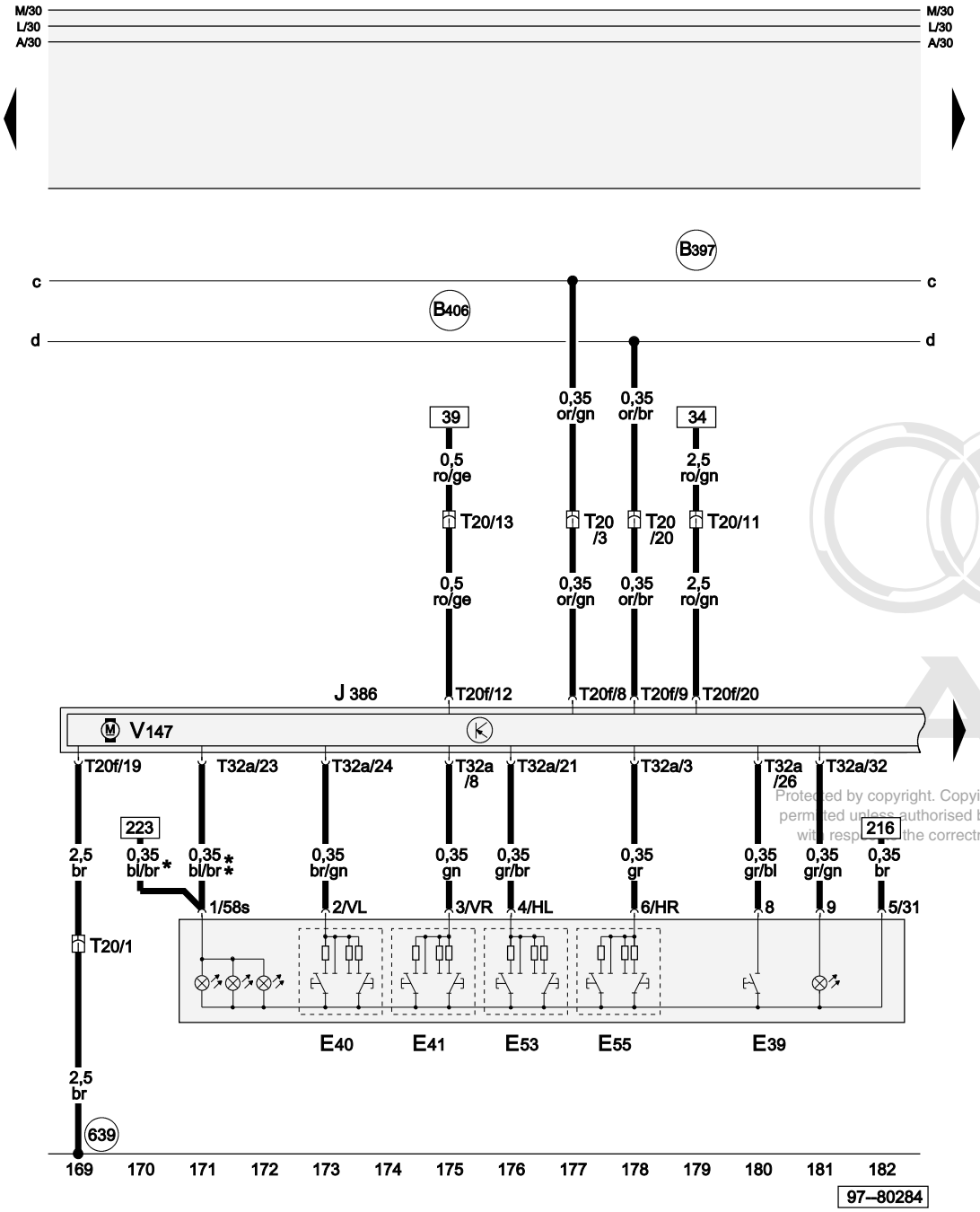


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Alarm horn, vehicle inclination sender, glass breakage sensor for rear window, interior monitoring sensor

G273	Interior monitoring sensor
G304	Glass breakage sensor for rear window
G384	Vehicle inclination sender
H12	Alarm horn
J393	Convenience system central control unit
J529	Anti-theft and tilt system control unit
T6a	6-pin connector, black, on left C-pillar
T6g	6-pin connector, black (connector E)
98	Earth connection, in rear lid wiring harness
372	Earth connection 7, in main wiring harness
B317	Positive connection 3 (30a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B528	Connection 1 (LIN bus), in main wiring harness
*	for models with anti-theft alarm system only
**	for models with interior monitoring sensor only

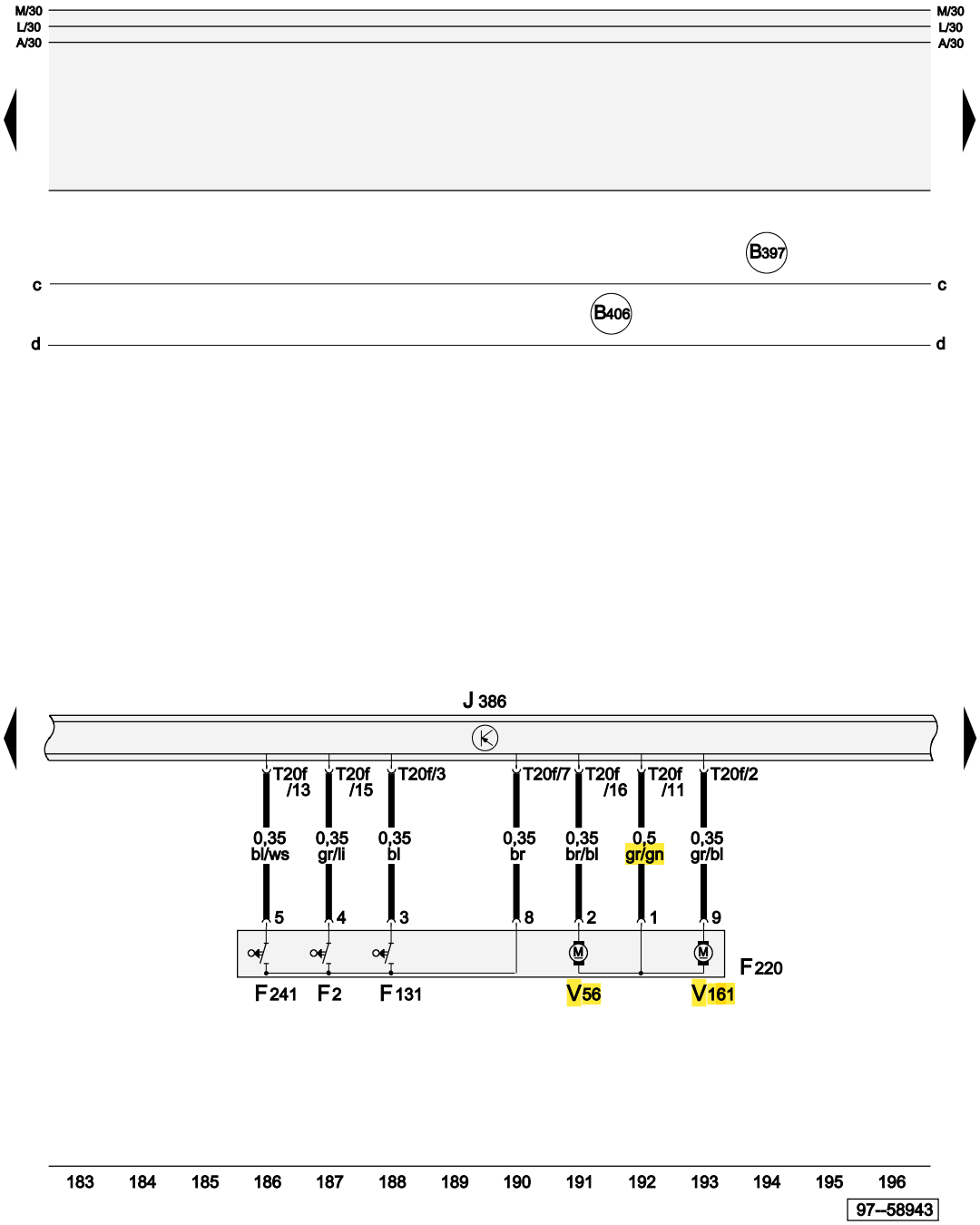


Window regulator switch, driver side

E39	Rear window regulator isolation switch
E40	Front left window regulator switch
E41	Front right window regulator switch
E53	Rear left window regulator switch, in driver side
E55	Rear right window regulator switch, in driver side
J386	Driver side door control unit
T20	20-pin connector, black, door, A pillar, left
T20f	20-pin connector, black (connector A)
T32a	32-pin connector, grey (connector C)
V147	Driver side window regulator motor
639	Earth point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with interior monitor only
**	for models without interior monitor only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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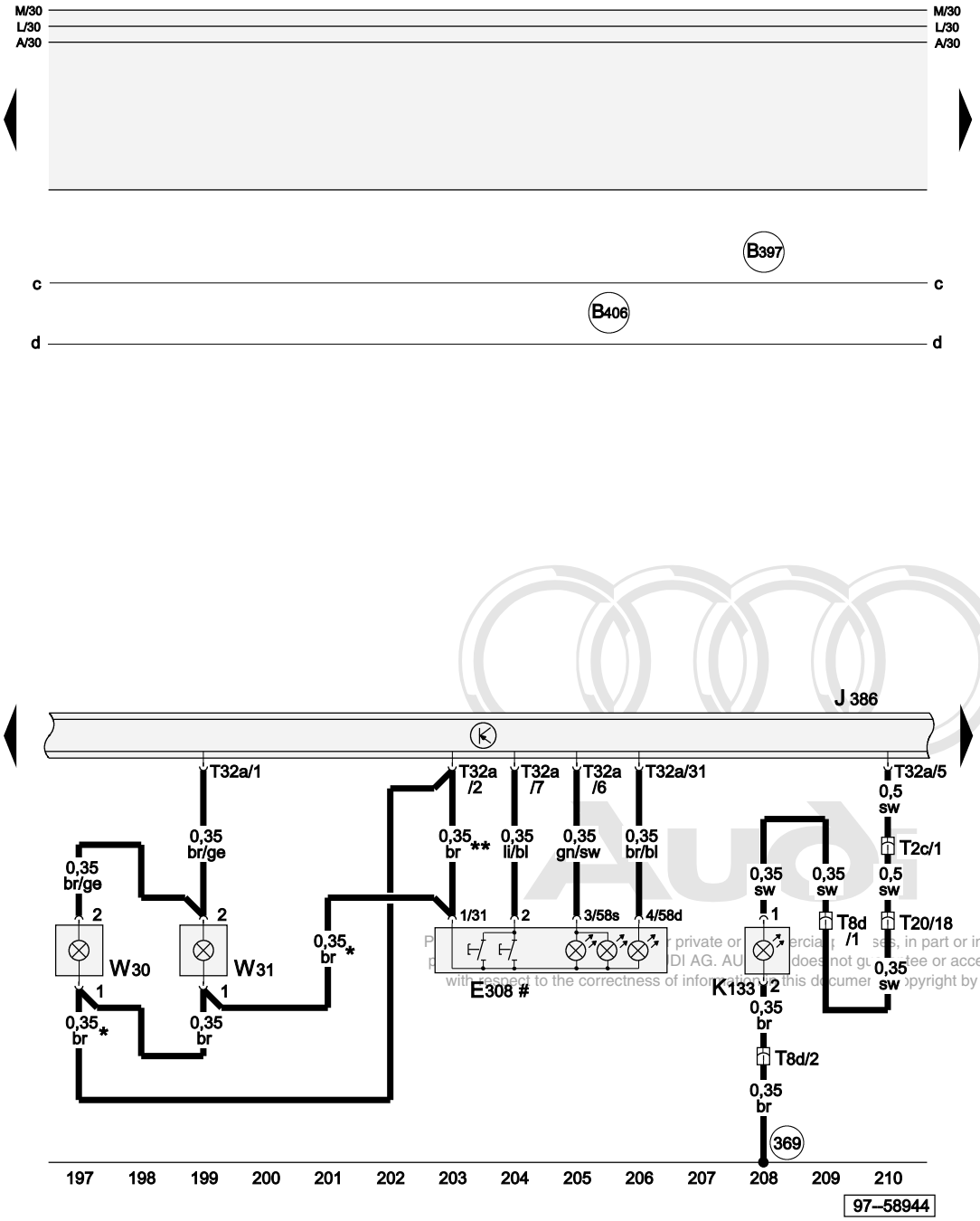


Driver side central locking lock unit

F2	Driver door contact switch
F131	Front left central locking actuator
F220	Driver side central locking lock unit
F241	Driver side contact switch in lock cylinder
J386	Driver side door control unit
T20f	20-pin connector, black (connector A)
V56	Driver door central locking motor
V161	Driver door central locking deadlock function motor
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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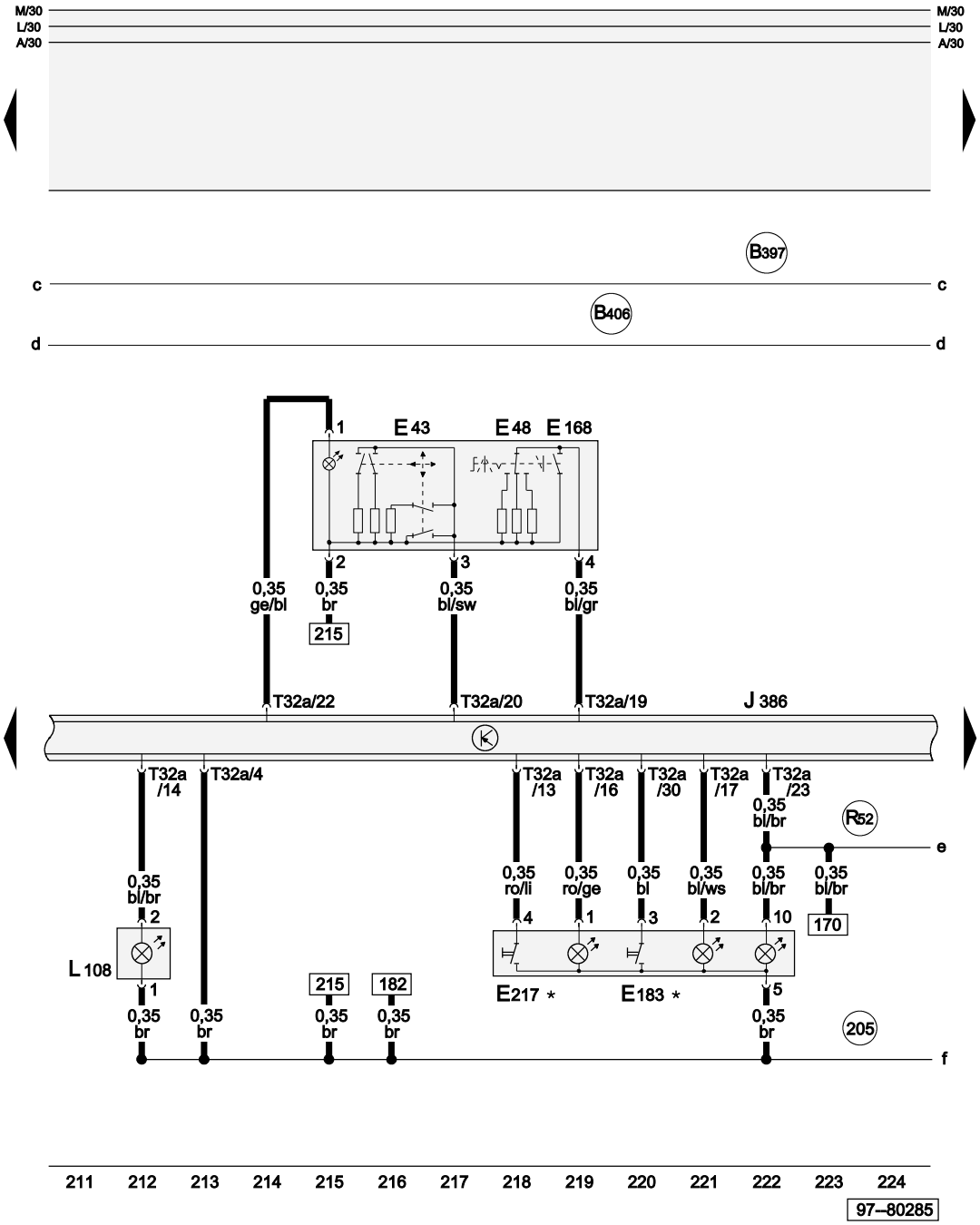


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Front left entry light, driver side interior locking button for central locking system, driver door control unit

E308	Driver side interior locking button for central locking system
J386	Driver side door control unit
K133	Central locking deadlock function warning lamp
T2c	2-pin connector, black, behind door trim driver door
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door, A pillar, left
T32a	32-pin connector, grey (connector C)
W30	Driver side door warning lamp
W31	Front left entry light
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with entry warning lamp and door warning lamp only
**	for models without entry warning lamp and door warning lamp only
#	E150 is replaced by E308

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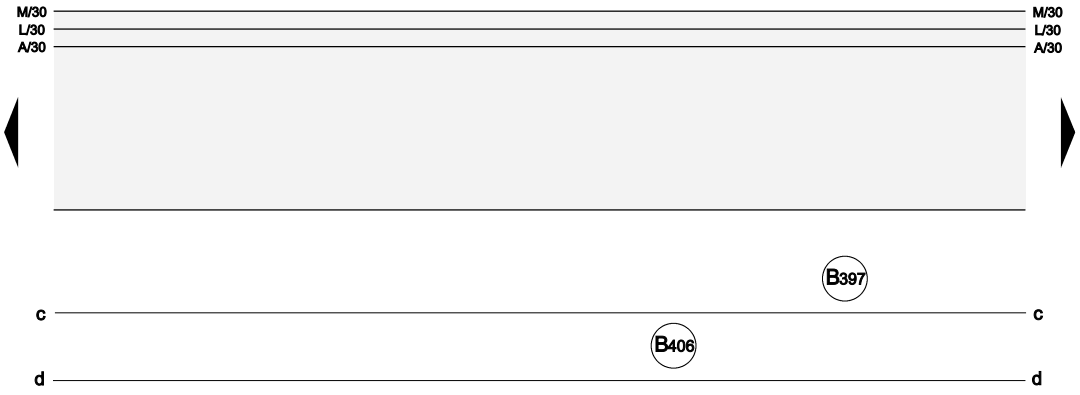


Mirror adjustment switch, interior monitoring switch

E43	Mirror adjustment switch
E48	Mirror adjustment change-over switch
E168	Adjustment switch for mirror with fold-in feature
E183	Interior monitor deactivation switch
E217	Alarm system off switch
J386	Driver side door control unit
L108	Driver door opener illumination
T32a	32-pin connector, grey (connector C)
205	Earth connection, in driver door wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
R52	Connection (58s), in driver side door wiring harness
*	for models with interior monitor only

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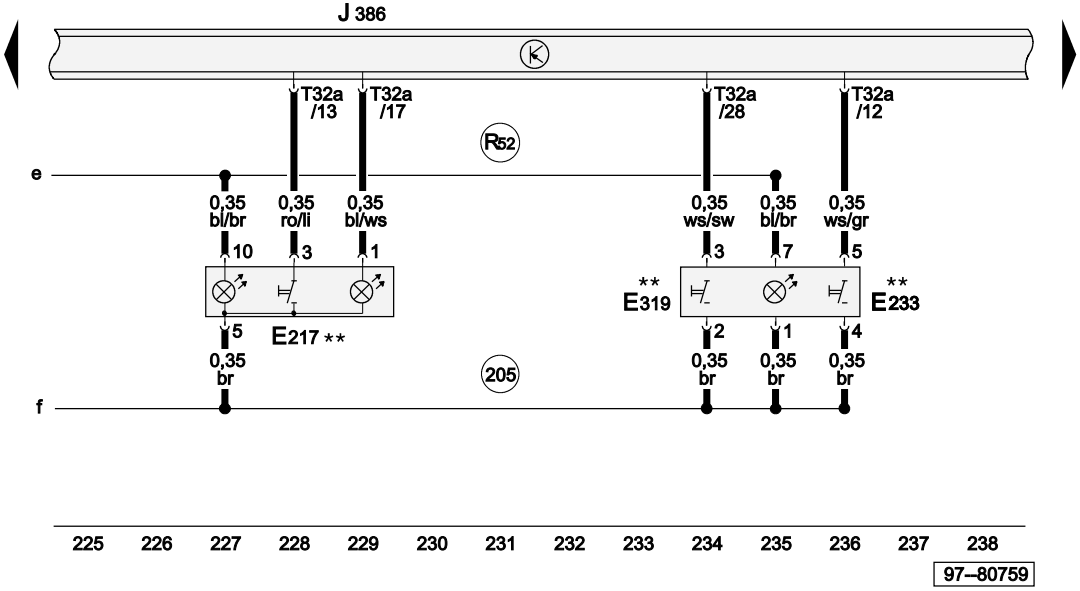
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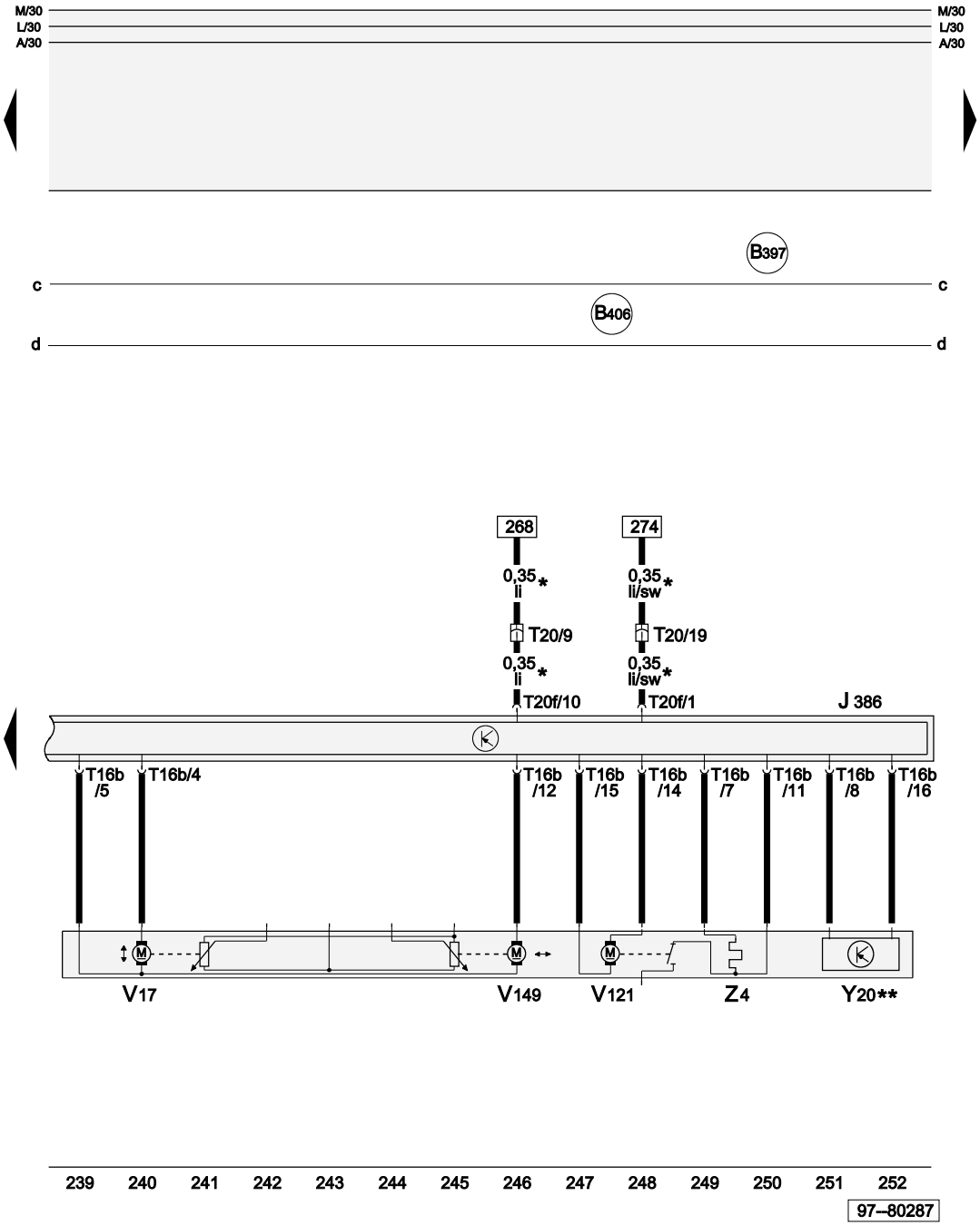
Alarm system off switch, rear lid remote release button

E217 Alarm system off switch
E233 Rear lid remote release button
E319 Fuel tank flap release button
J386 Driver side door control unit
T32a 32-pin connector, grey (connector C)
205 Earth connection, in driver door wiring harness
B397 Connection 1 (convenience CAN bus, high), in main wiring harness
B406 Connection 1 (convenience CAN bus, low), in main wiring harness
R52 Connection (58s), in driver side door wiring harness
** For USA only

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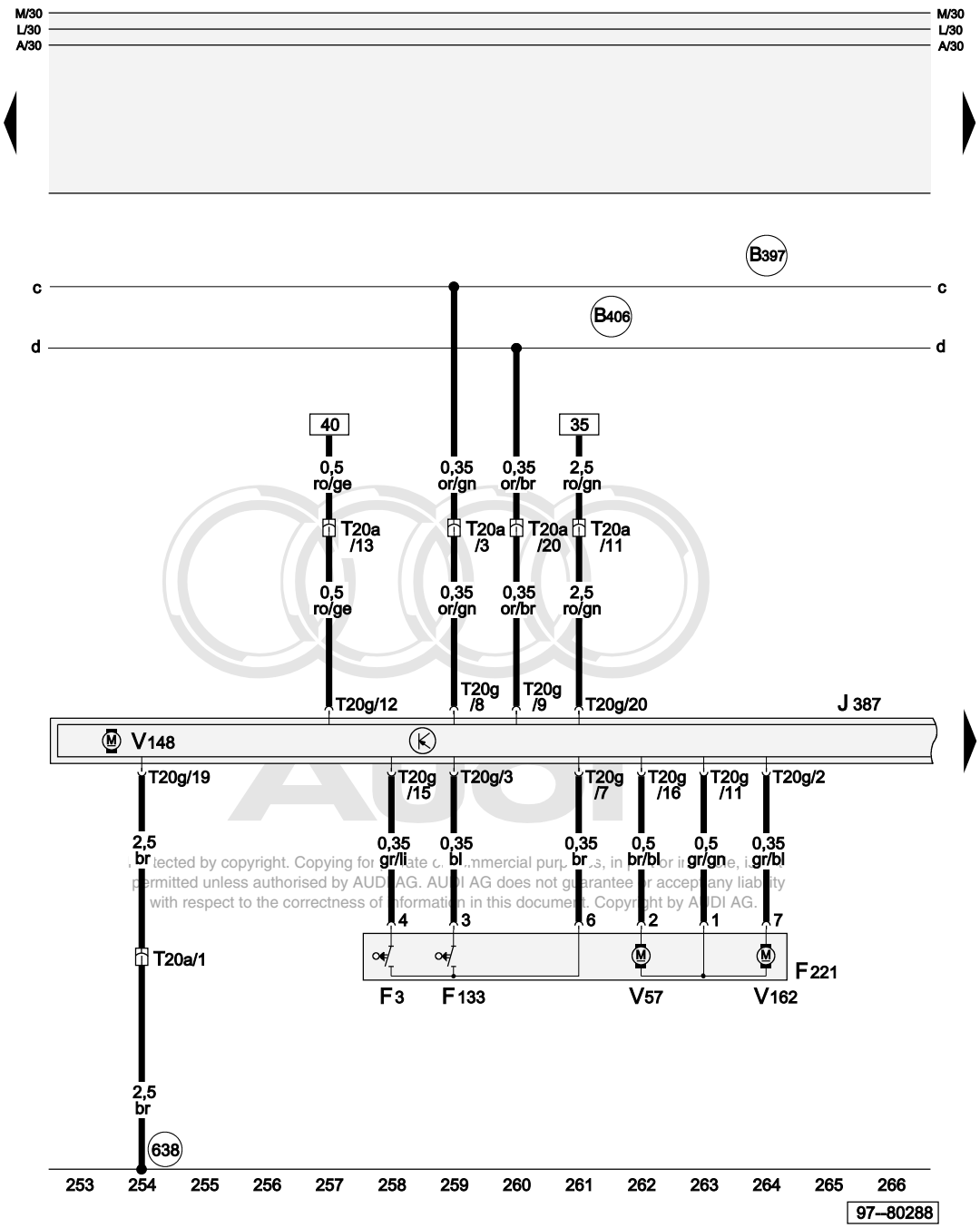


Mirror adjustment motor/folding mirror motor, driver side

J386	Driver side door control unit
T16b	16-pin connector (connector B)
T20	20-pin connector, black, door, A pillar, left
T20f	20-pin connector, black (connector A)
V17	Driver side mirror adjustment motor
V121	Driver side folding mirror motor
V149	Driver side mirror adjustment motor
Y20	Driver side automatic anti-dazzle exterior mirror
Z4	Driver side heated exterior mirror
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with automatic anti-dazzle interior mirror only
**	for models with automatic anti-dazzle exterior mirror only

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sw	=	black
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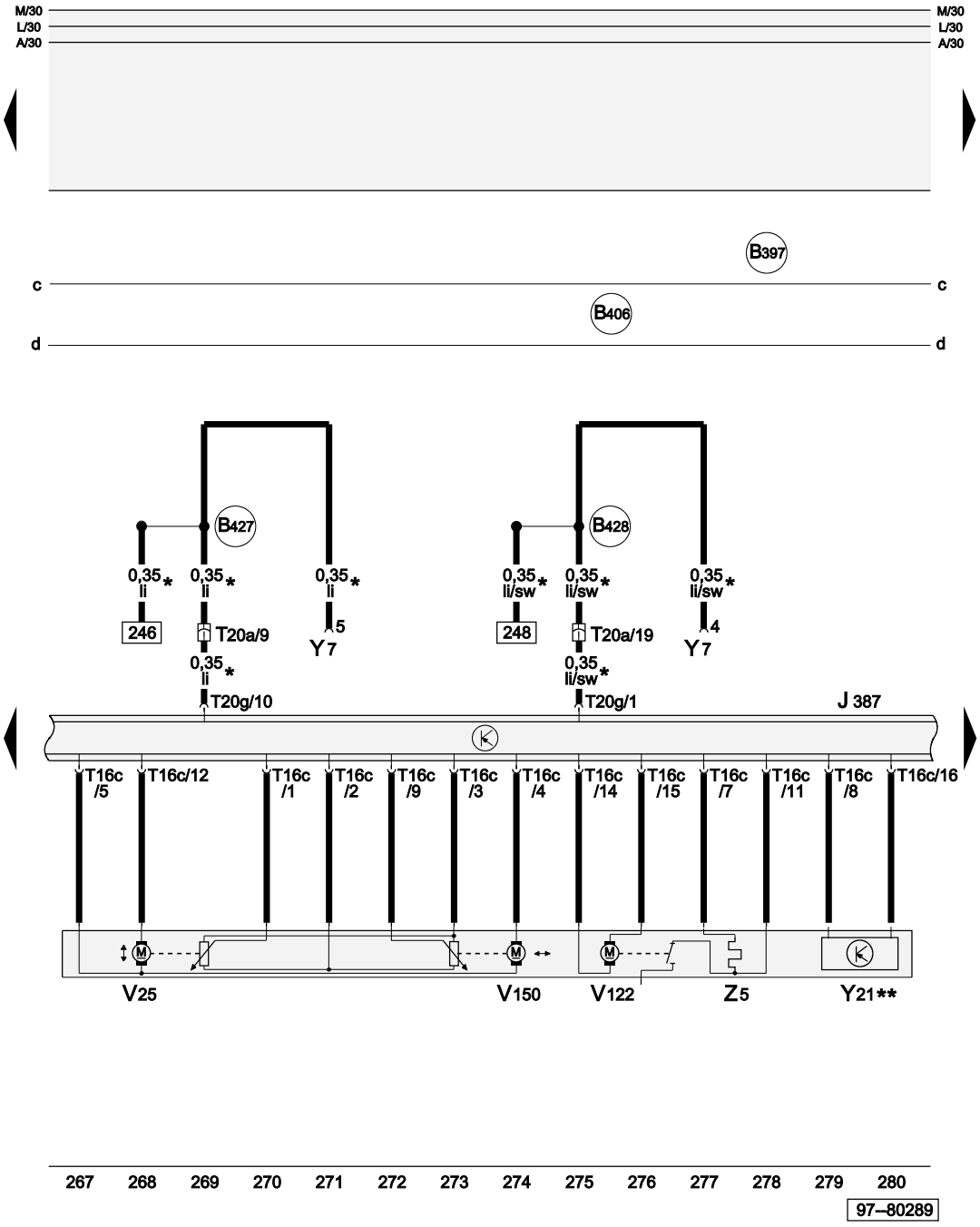


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Front passenger side central locking lock unit

F3	Front passenger door contact switch
F133	Front right central locking actuator
F221	Front passenger side central locking lock unit
J387	Front passenger side door control unit
T20a	20-pin connector, black, door, A pillar, right
T20g	20-pin connector, black (connector A)
V57	Front passenger seat central locking motor
V148	front passenger side window regulator motor
V162	Front passenger door central locking deadlock function motor
638	Earth point, right A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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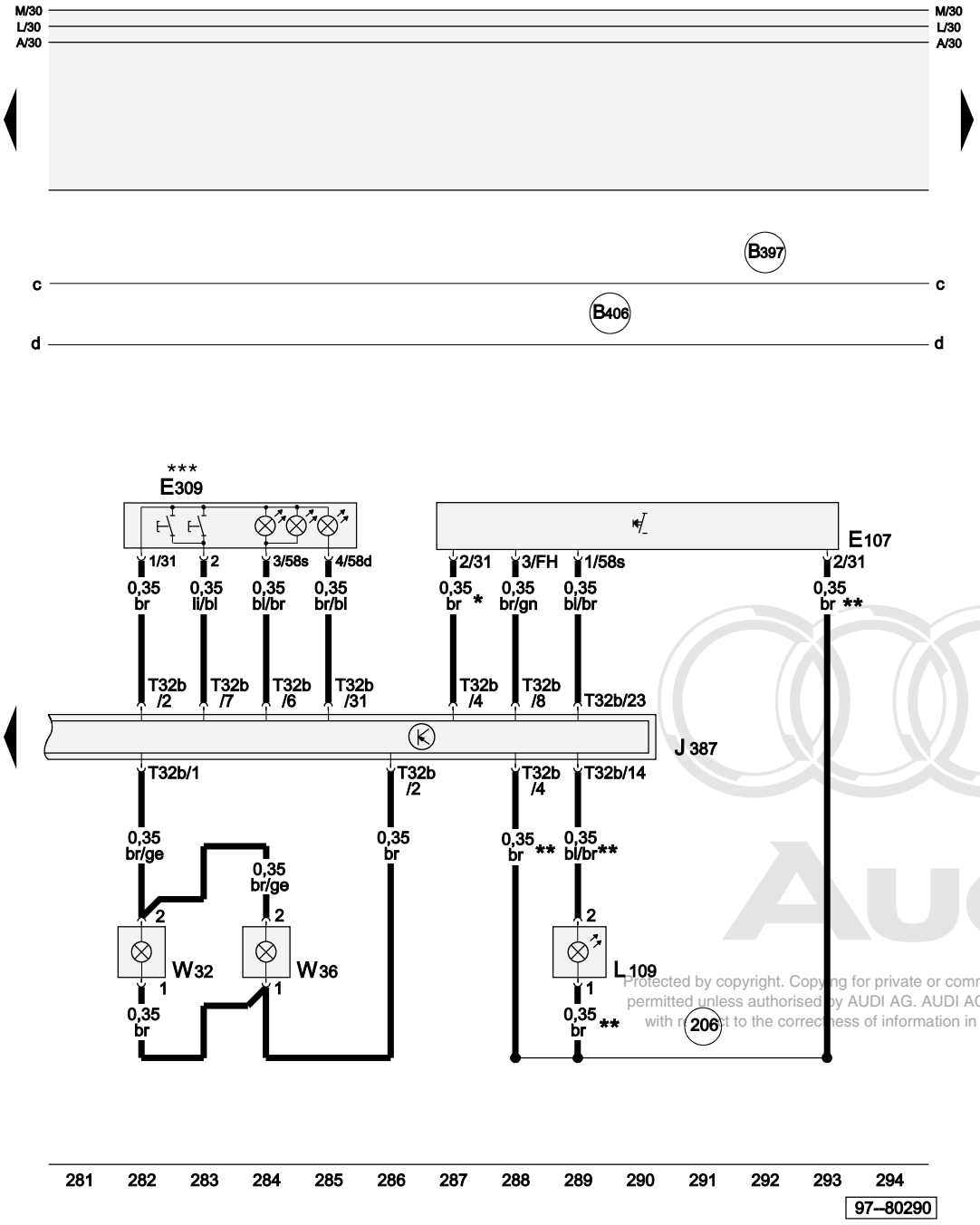


Mirror adjustment motor/folding mirror motor, front passenger side

J387	Front passenger side door control unit
T16c	16-pin connector (connector B)
T20a	20-pin connector, black, door, A pillar, right
T20g	20-pin connector, black (connector A)
V25	Mirror adjustment motor (front passenger side)
V122	Front passenger side folding mirror motor
V150	Front passenger side mirror adjustment motor
Y7	Automatic anti-dazzle interior mirror
Y21	Front passenger side automatic anti-dazzle exterior mirror
Z5	Front passenger side heated exterior mirror
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B427	Connection 1 (mirror signal), in main wiring harness
B428	Connection 2 (mirror signal), in main wiring harness
*	for models with automatic anti-dazzle interior mirror only
**	for models with automatic anti-dazzle exterior mirror only

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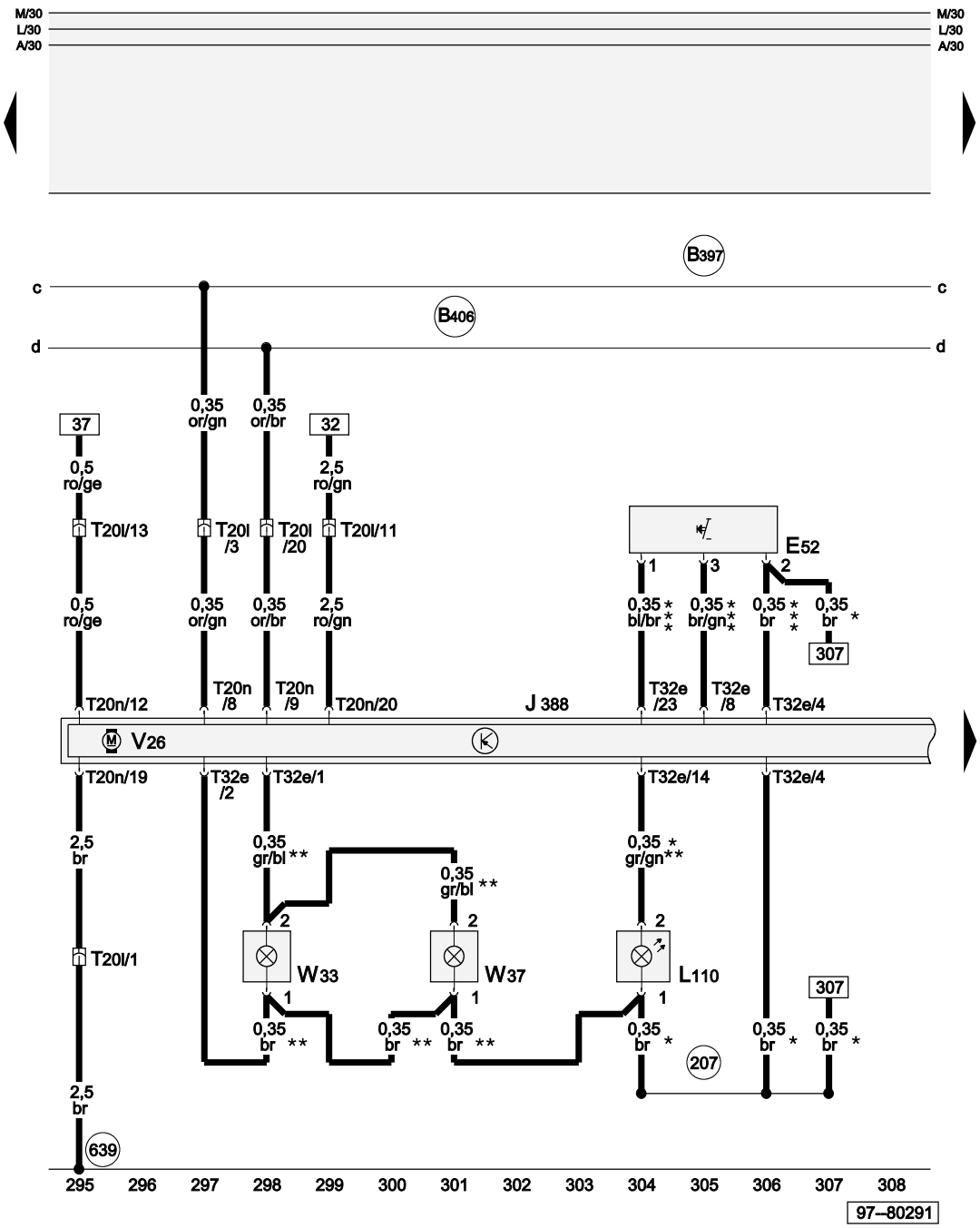


Front right entry light, front passenger side door warning lamp, window regulator switch in front passenger door

E107	Window regulator switch in front passenger door
E309	Front passenger side interior locking button for central locking system
J387	Front passenger side door control unit
L109	Front passenger side door opener illumination
T32b	32-pin connector, grey (connector C)
W32	Front right entry light
W36	Front passenger side door warning lamp
206	Earth connection, in door wiring harness, front passenger side
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models without front passenger side door opener illumination only
**	for models with front passenger side door opener illumination only
***	for models with front passenger side interior locking button for central locking system only

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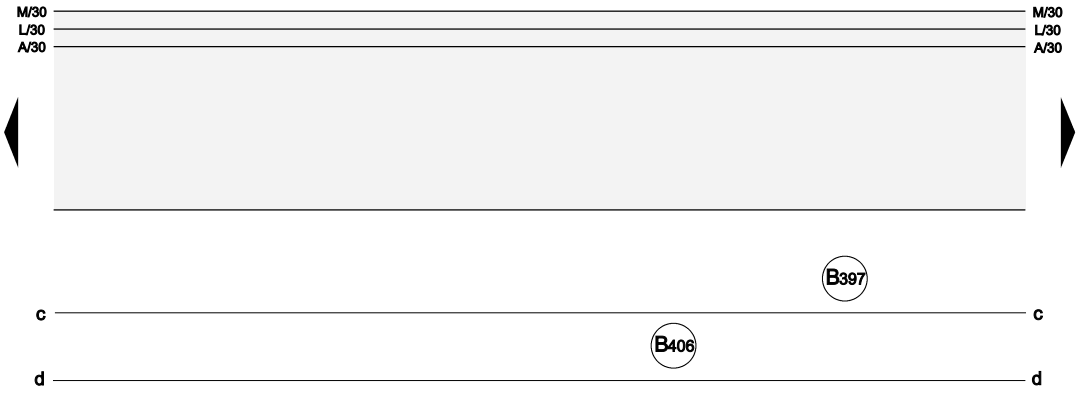


5-door models rear left, rear left window regulator switch, in door, entry light, door warning lamp

E52	Rear left window regulator switch, in door
J388	Rear left door control unit
L110	Rear left door opener illumination
T20l	20-pin connector, black, door, B pillar, left
T20n	20-pin connector, black (connector A)
T32e	32-pin connector
V26	Rear left window regulator motor
W33	Rear left entry light
W37	Rear left door warning lamp
639	Earth point, left A-pillar
207	Earth connection, in rear left door wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with window regulator switch and door opener illumination only
**	for models with door opener illumination, entry light and door warning lamp only
***	for models with window regulator switch only

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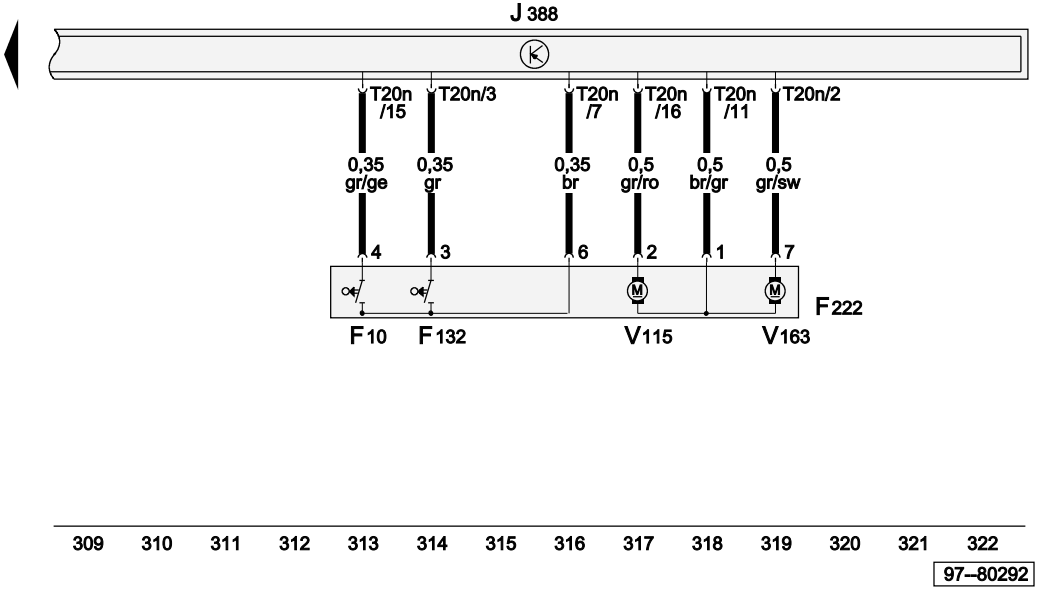
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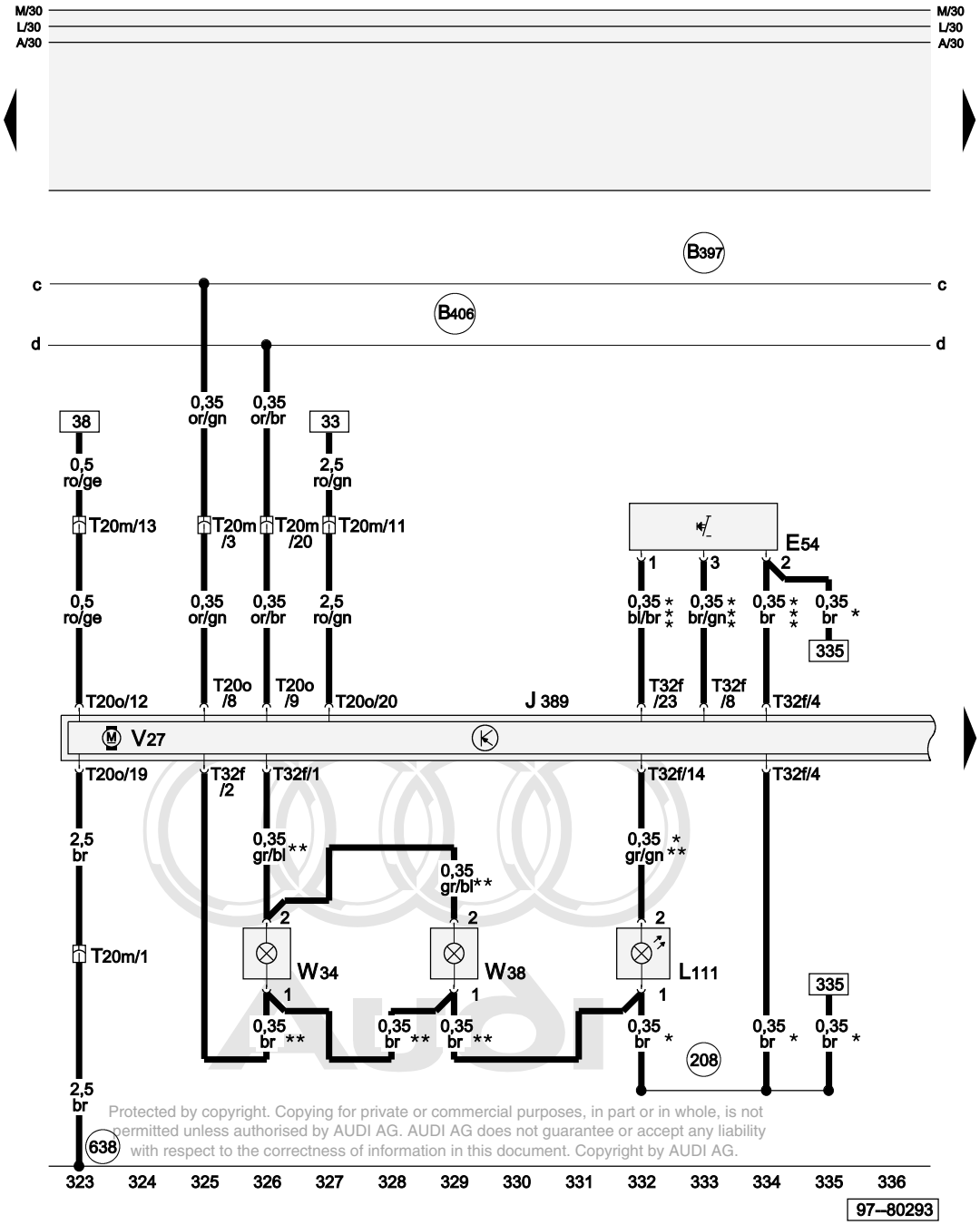
5-door models rear left, rear left central locking lock unit

F10	Rear left door contact switch
F132	Rear left central locking actuator
F222	Rear left central locking lock unit
J388	Rear left door control unit
T20n	20-pin connector, black (connector A)
V115	Rear left door central locking motor
V163	Rear left door central locking deadlock function motor
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness

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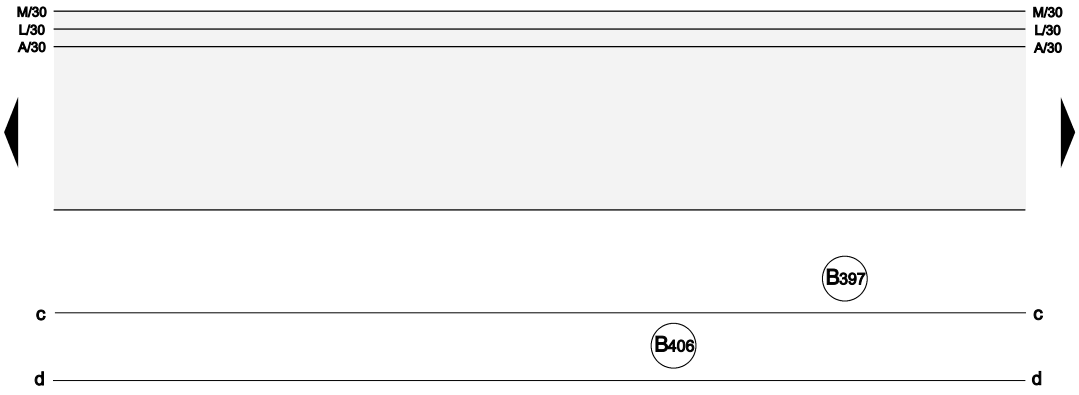


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5-door models rear right, rear right window regulator switch, in door, entry light, door warning lamp

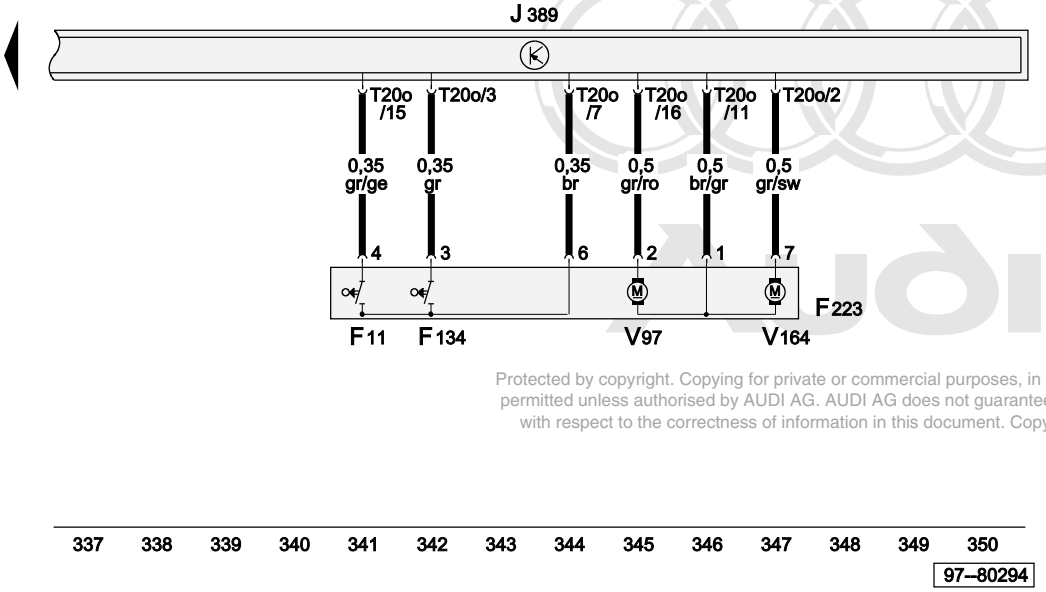
E54	Rear right window regulator switch, in door
J389	Rear right door control unit
L111	Rear right door opener illumination
T20m	20-pin connector, black, door, B pillar, right
T20o	20-pin connector, black (connector A)
T32f	32-pin connector
V27	Rear right window regulator motor
W34	Rear right entry light
W38	Rear right door warning lamp
208	Earth connection, in rear right door wiring harness
638	Earth point, right A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with window regulator switch and door opener illumination only
**	for models with door opener illumination, entry light and door warning lamp only
***	for models with window regulator switch only

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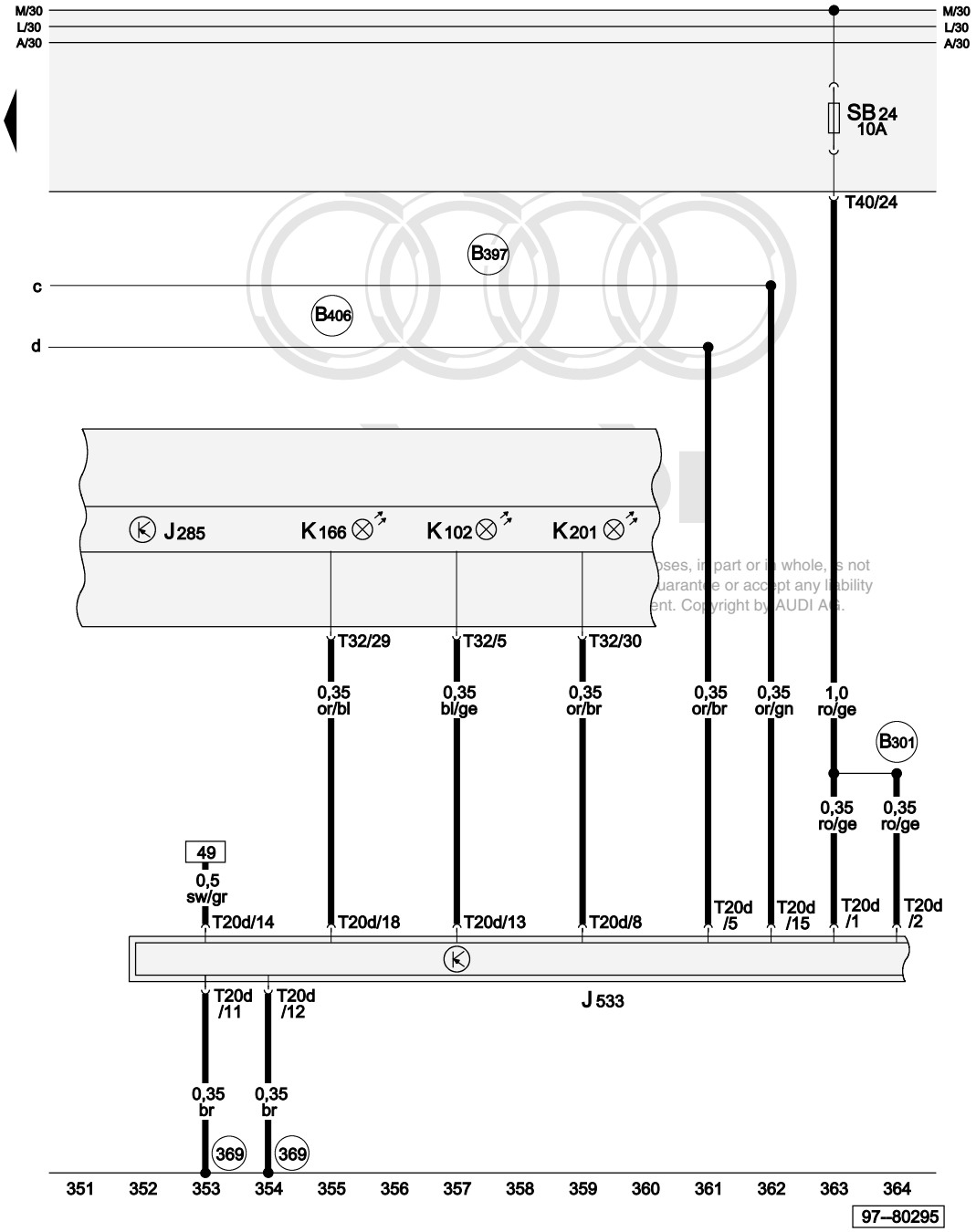
5-door models rear right, rear right central locking lock unit

F11	Rear right door contact switch
F134	Rear right central locking actuator
F223	Rear right central locking lock unit
J389	Rear right door control unit
T20o	20-pin connector, black (connector A)
V97	Rear right door central locking motor
V164	Rear right door central deadlock function locking motor
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness



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Control unit with display in dash panel insert, data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K102	Rear lid closed warning lamp
K166	Door open warning lamp
K201	Fuel tank flap lock warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

3.2 l Fuel injection engine (184 kW - Motronic - 6 cylinder), engine code BDB, BMJ

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

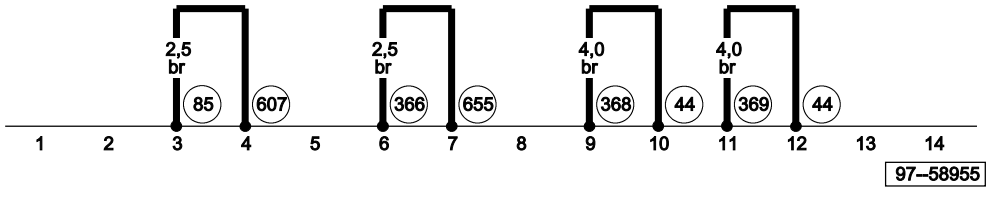
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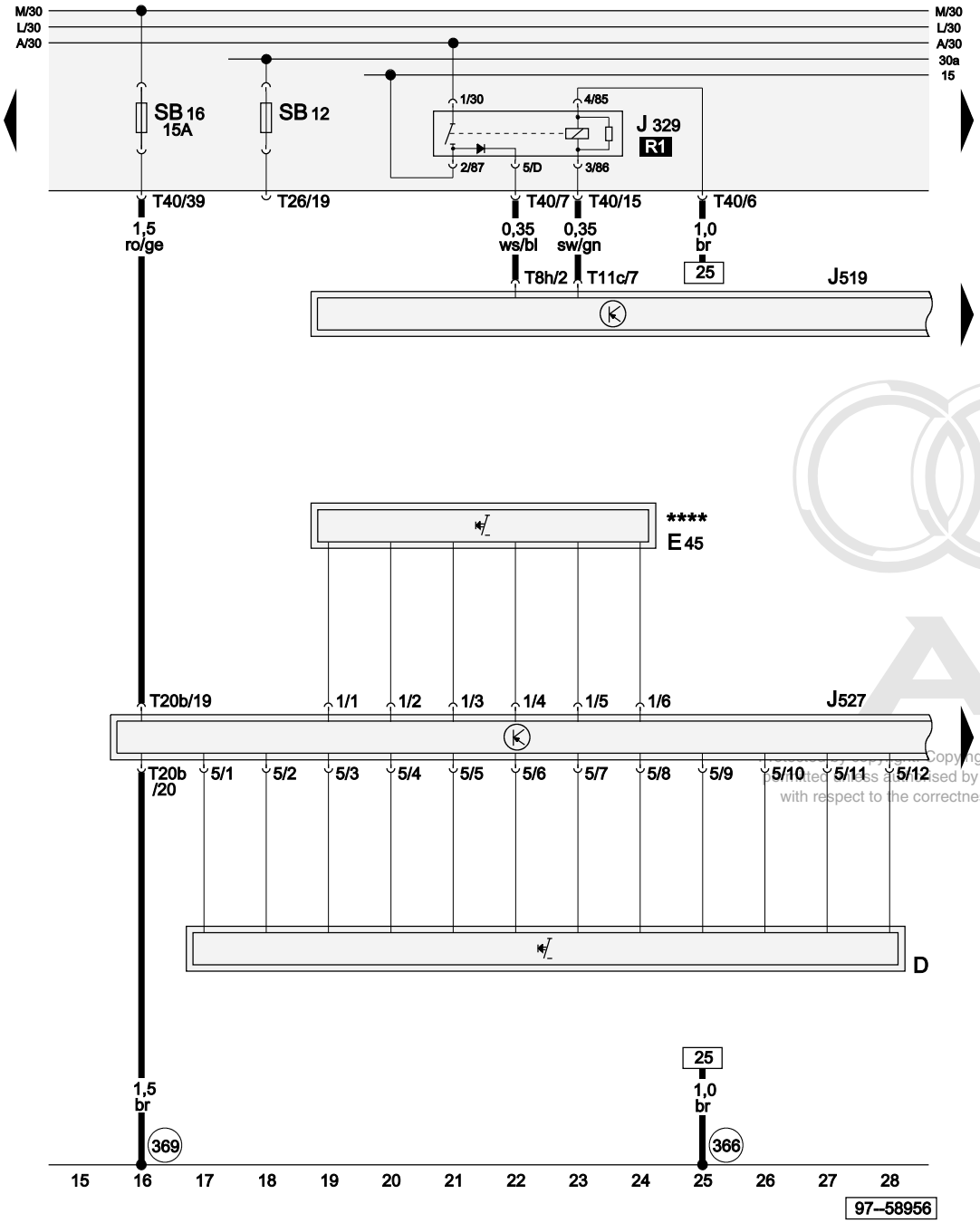
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Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection 1, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight



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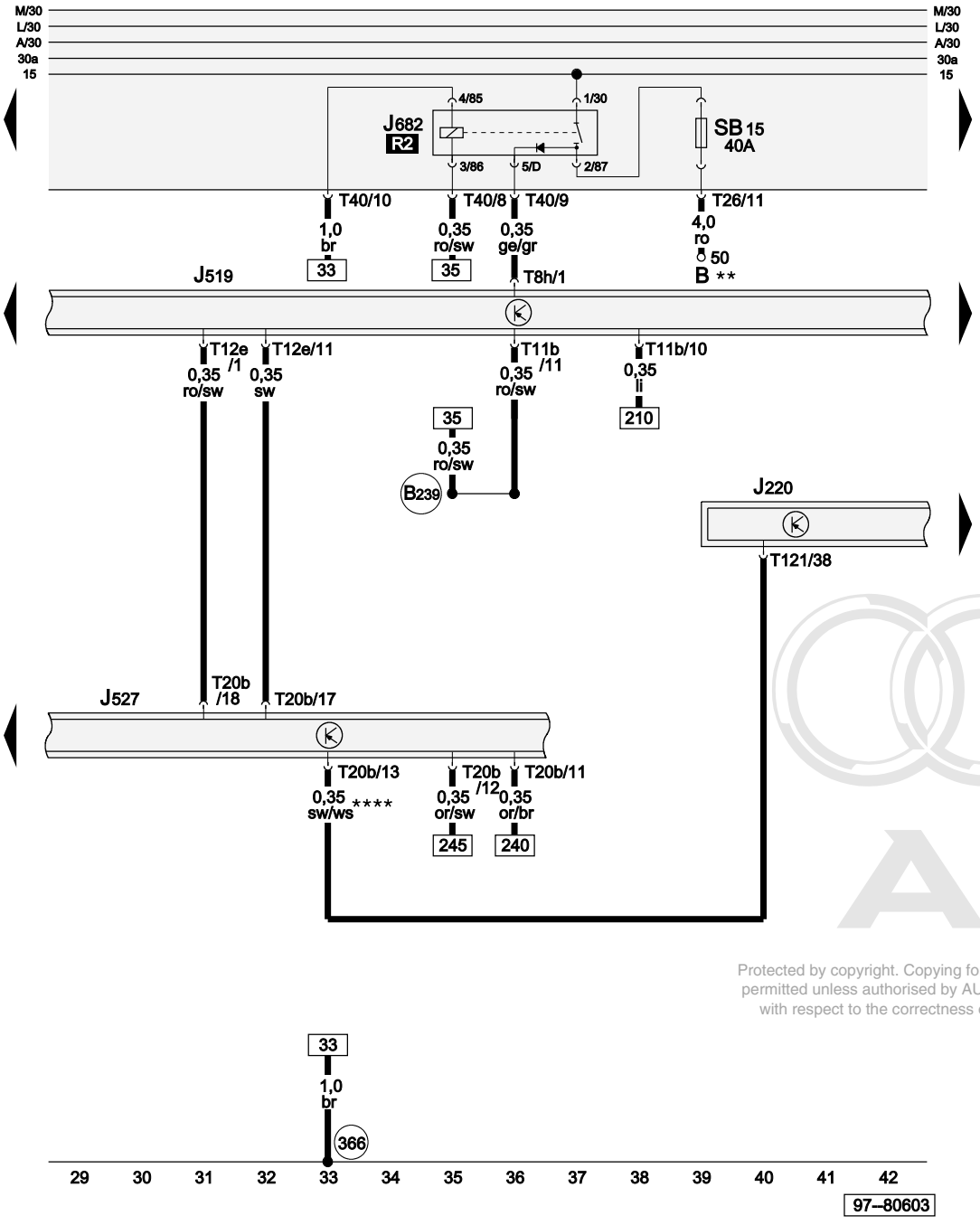


Terminal 15 voltage supply relay, cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB12	Fuse 12 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
****	for models with cruise control system only

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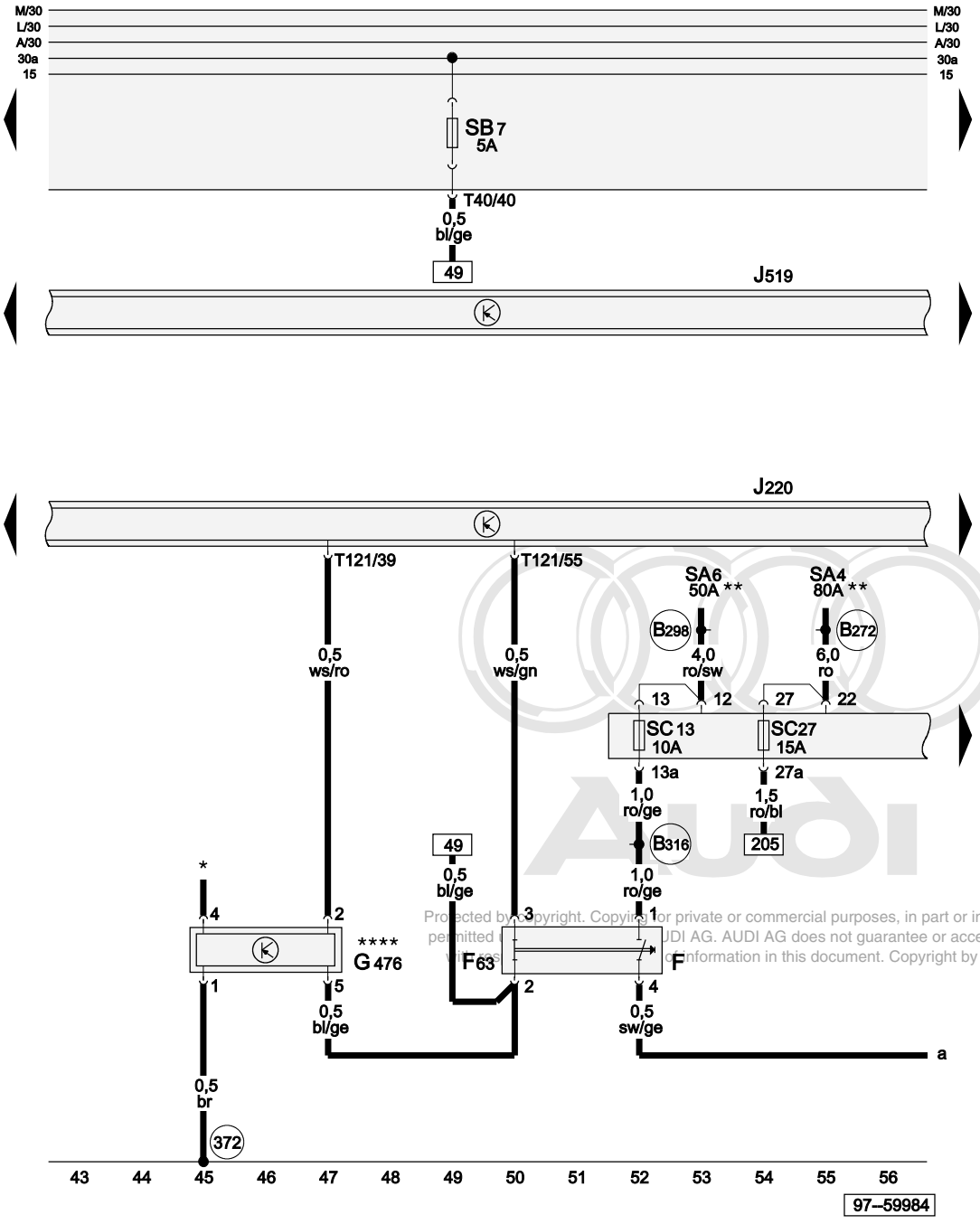


Terminal 50 voltage supply relay

B	Starter
J220	Motronic control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
366	Earth connection 1, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
**	⇒ applicable Current Flow Diagram with battery in luggage compartment
****	for models with cruise control system only

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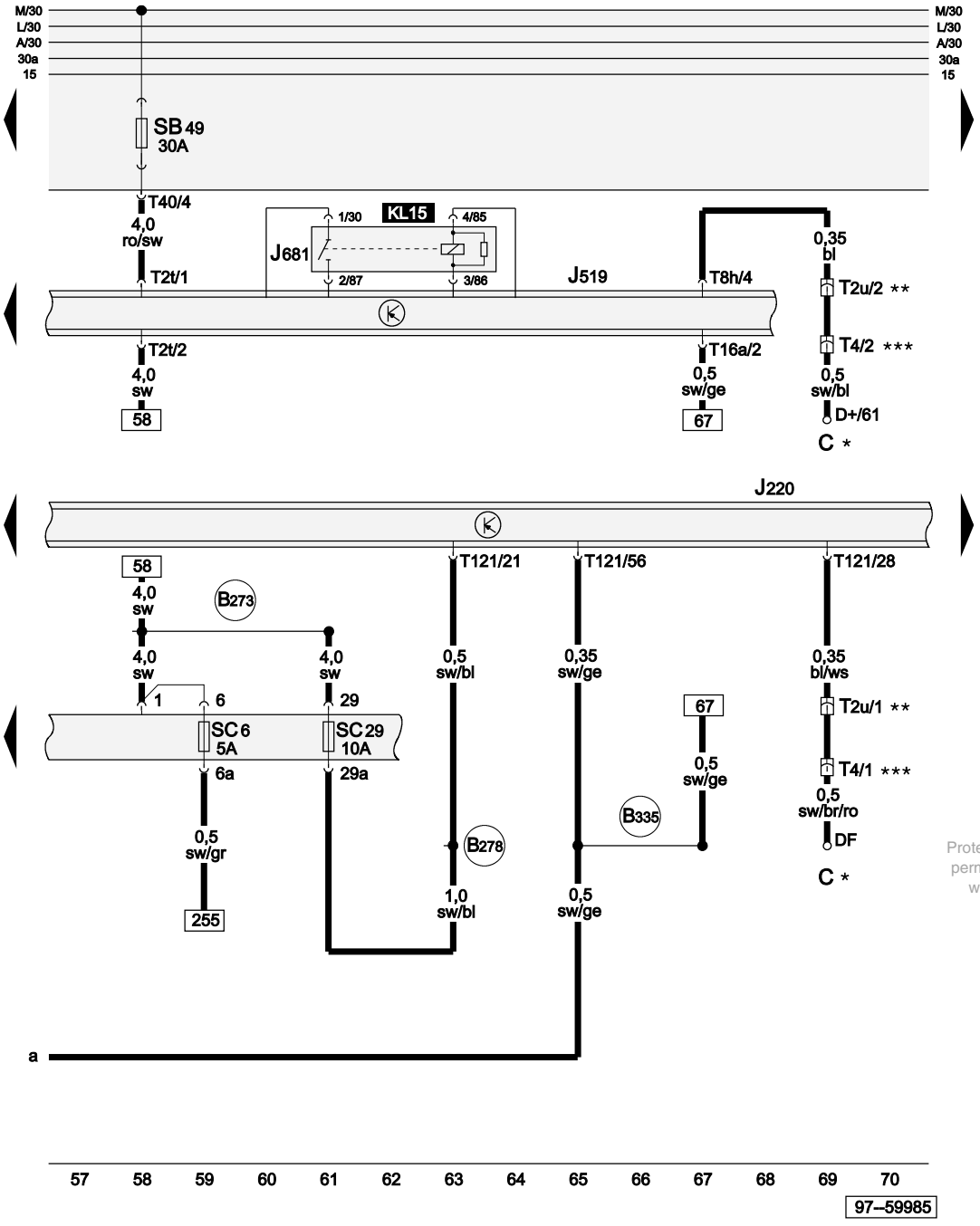


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Brake light switch, brake pedal switch, clutch travel sender, fuses on fuse holder

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder on battery
SA6	Fuse 6 on fuse holder on battery
SB7	Fuse 7 on fuse holder
SC13	Fuse 13 on fuse holder
SC27	Fuse 27 on fuse holder
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
372	Earth connection 7, in main wiring harness
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram basic equipment
**	⇒ applicable Current Flow Diagram with battery in luggage compartment
****	for models with manual gearbox only

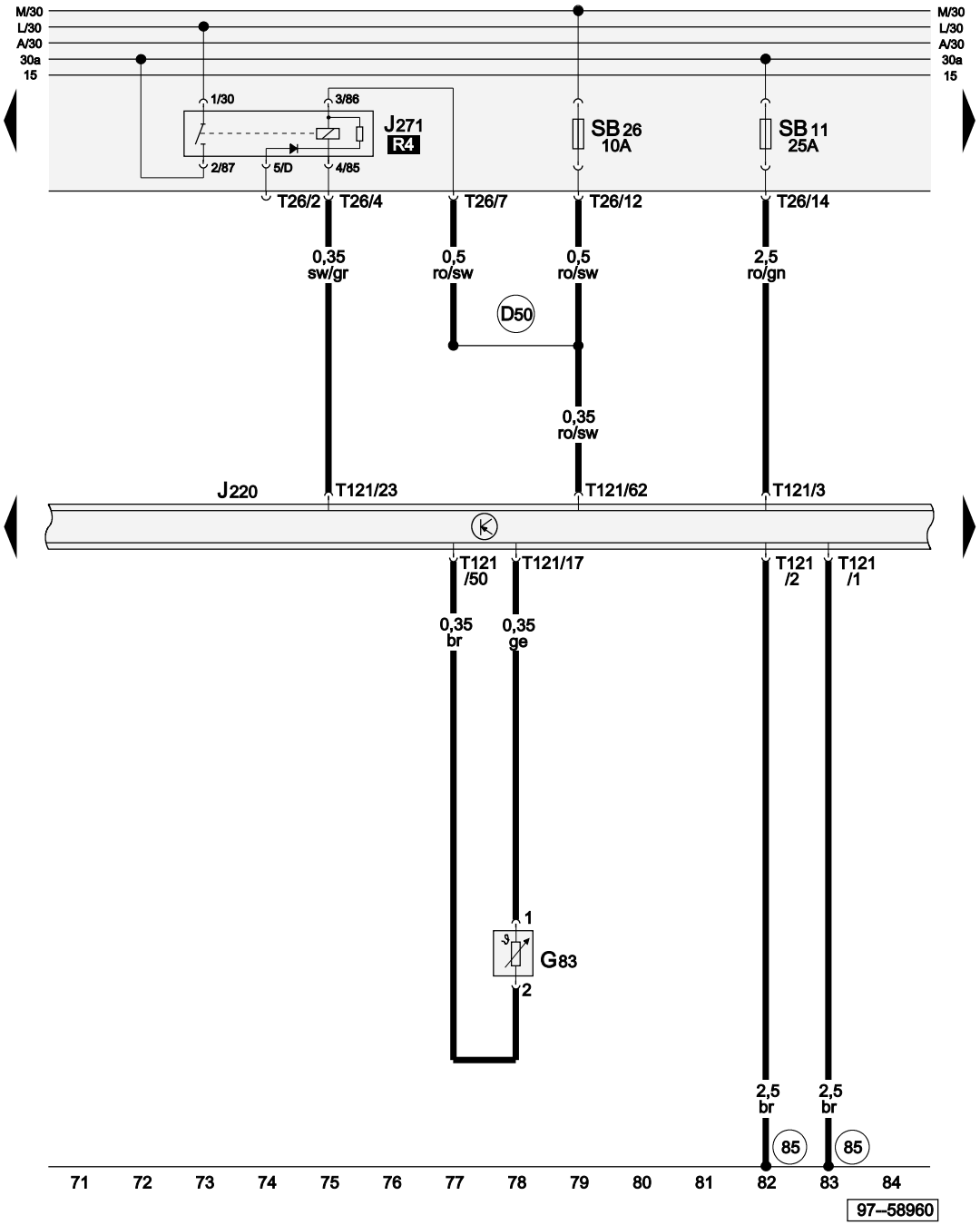


Terminal 15 voltage supply relay 2

C	Alternator
J220	Motronic control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB49	Fuse 49 on fuse holder B
SC6	Fuse 6 on fuse holder C
SC29	Fuse 29 on fuse holder C
T2t	2-pin connector, black (connector L)
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in luggage compartment
**	for models without air conditioning system only
***	for models with air conditioning system only

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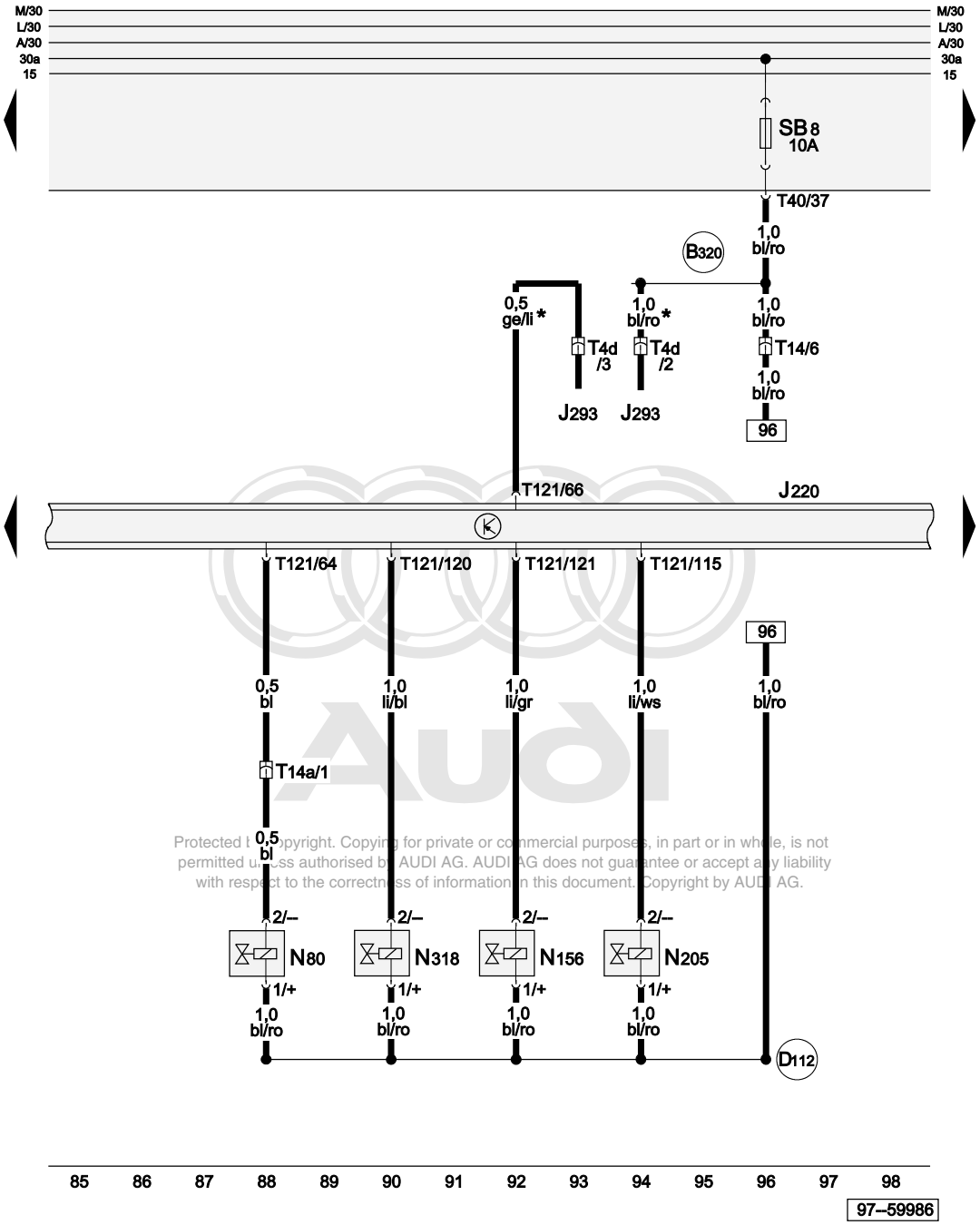


Motronic current supply relay, radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J220	Motronic control unit
J271	Motronic current supply relay
SB11	Fuse 11 on fuse holder
SB26	Fuse 26 on fuse holder
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
85	Earth connection 1, in engine compartment wiring harness
D50	Positive connection (30), in engine compartment wiring harness

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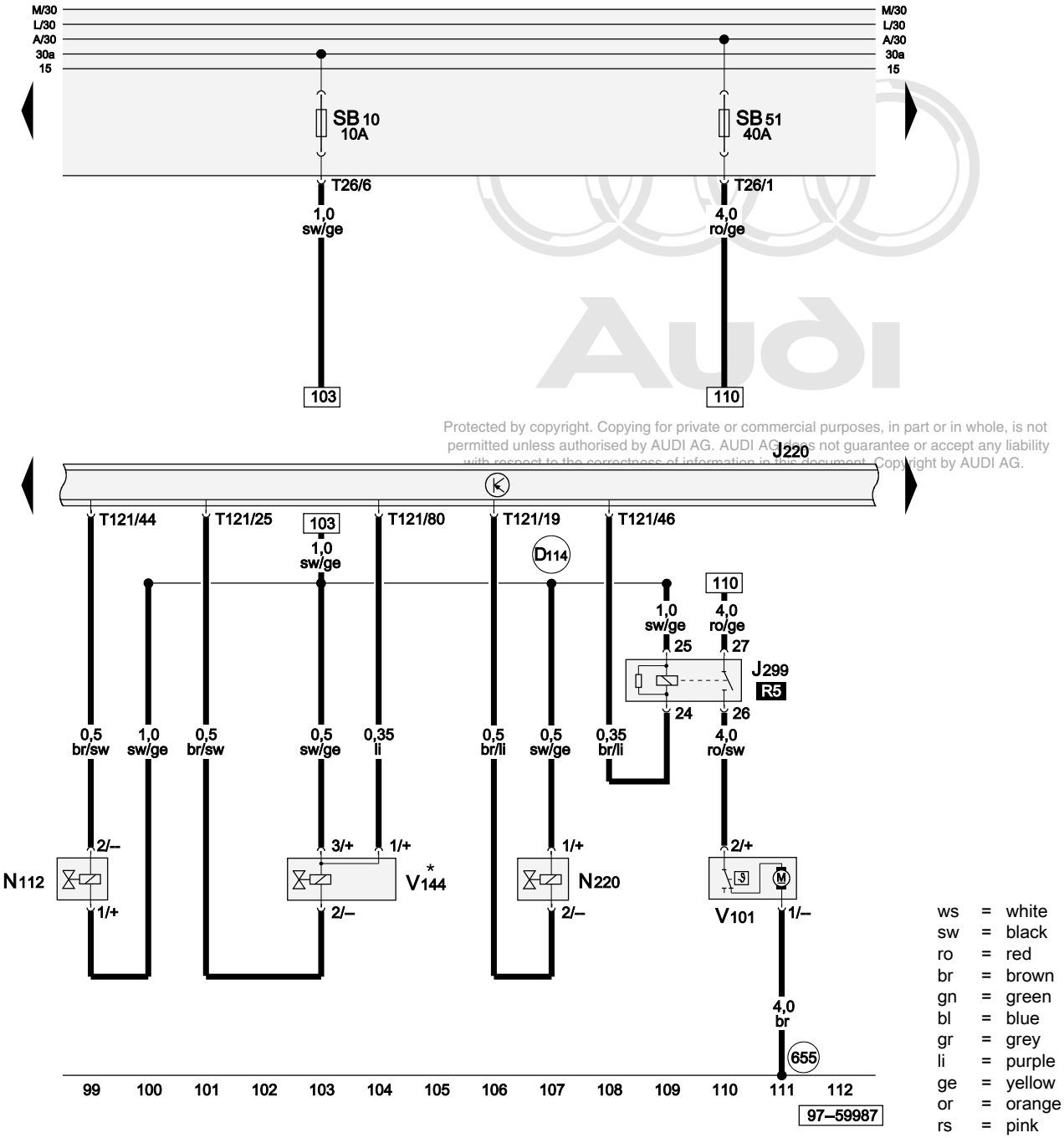


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Active charcoal filter system solenoid valve, variable intake manifold change-over, inlet camshaft control

J220	Motronic control unit
J293	Radiator fan control unit
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
N318	Exhaust camshaft control valve 1
SB8	Fuse 8 on fuse holder
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
B320	Positive connection 6 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
*	See applicable Current Flow Diagram: radiator fan control

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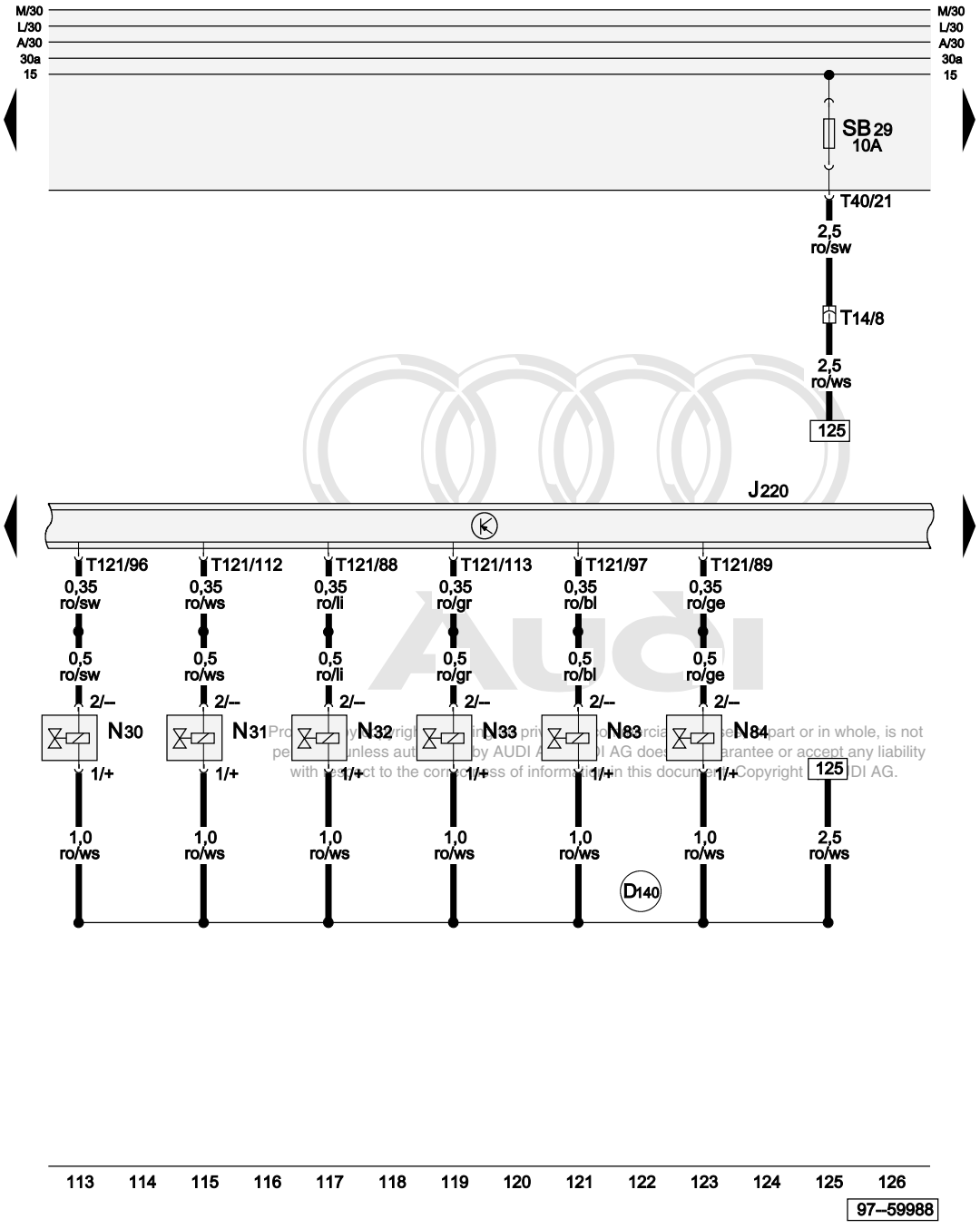


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Secondary air pump, secondary air inlet valve, exhaust flap valve

J220	Motronic control unit
J299	Secondary air pump relay
N112	Secondary air inlet valve
N220	Exhaust flap valve
SB10	Fuse 10 on fuse holder
SB51	Fuse 51 on fuse holder
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
V101	Secondary air pump motor
V144	Fuel system diagnostic pump
655	Earth point, on left headlight
D114	Connection 12, in engine compartment wiring harness
*	for models with fuel system diagnostic pump only

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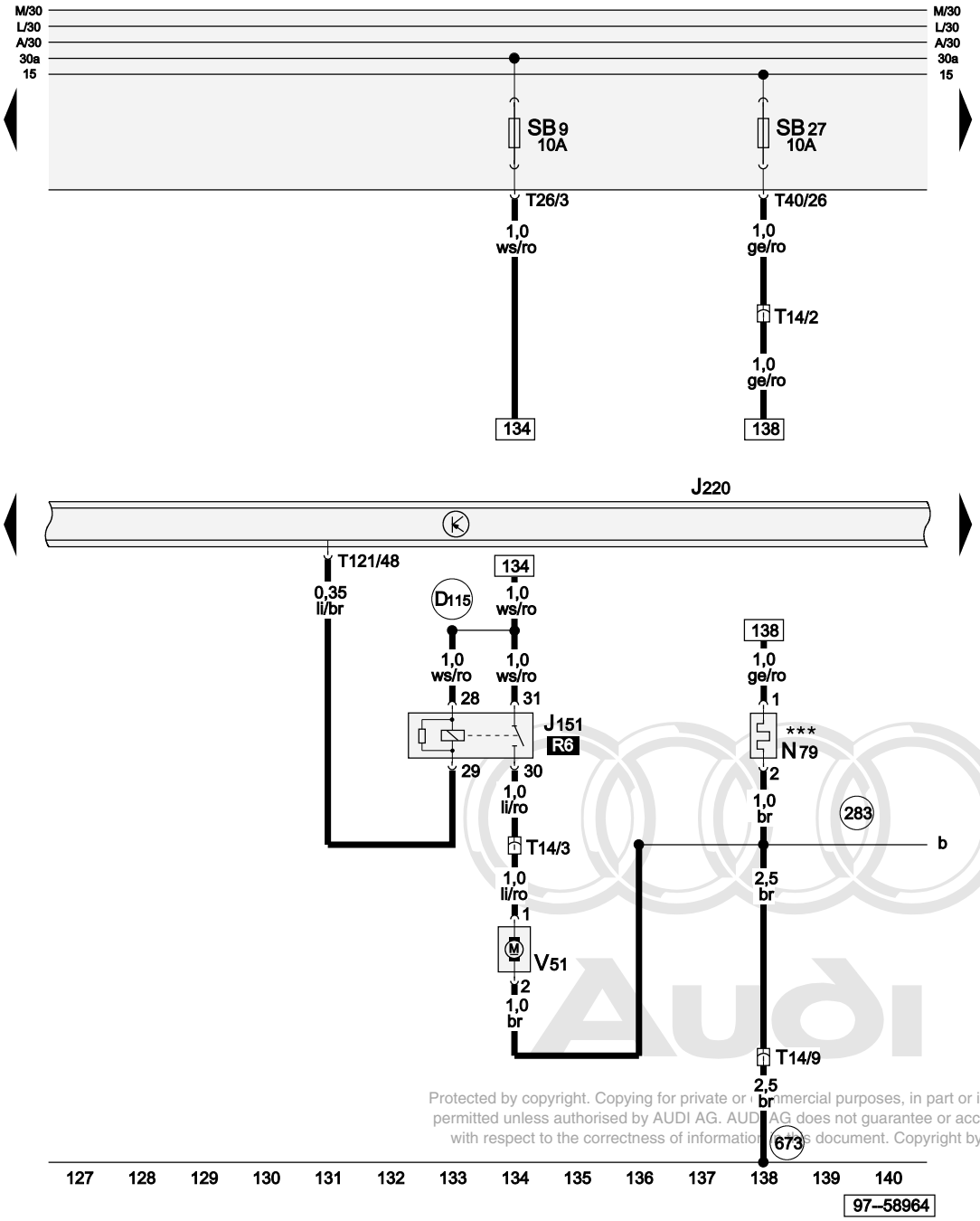


Injectors

J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
N83	Injector, cylinder 5
N84	Injector, cylinder 6
SB29	Fuse 29 on fuse holder
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
(D140)	Connection (injectors), in engine wiring harness

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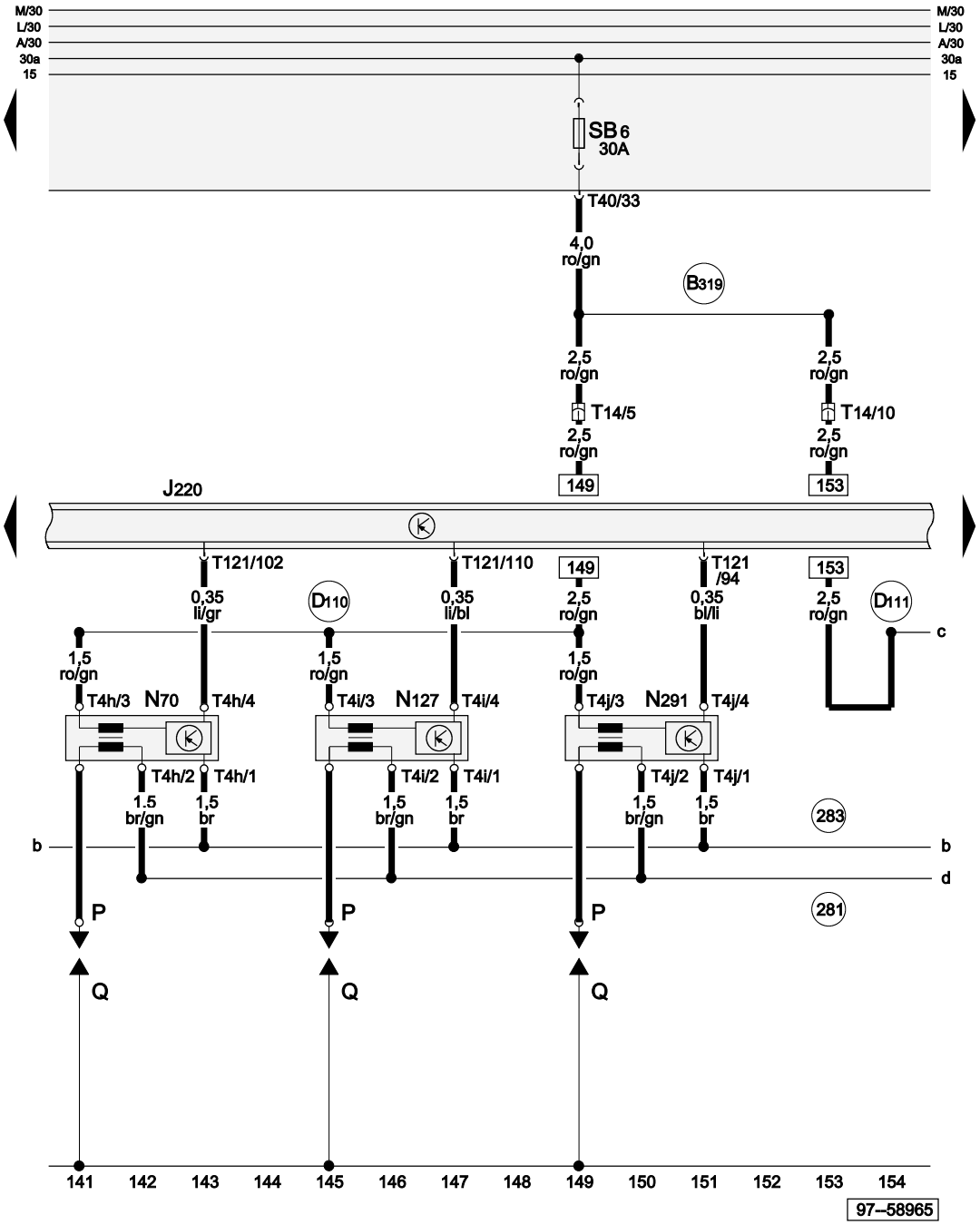


Continued coolant circulation relay, heater element for crankcase breather

J151	Continued coolant circulation relay
J220	Motronic control unit
N79	Heater element for crankcase breather
SB9	Fuse 9 on fuse holder
SB27	Fuse 27 on fuse holder
T14	14-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
V51	Continued coolant circulation pump
283	Earth connection 2, in engine wiring harness
673	Earth point 3, on front of left longitudinal member
D115	Connection 13, in engine compartment wiring harness
***	for models with heater element only

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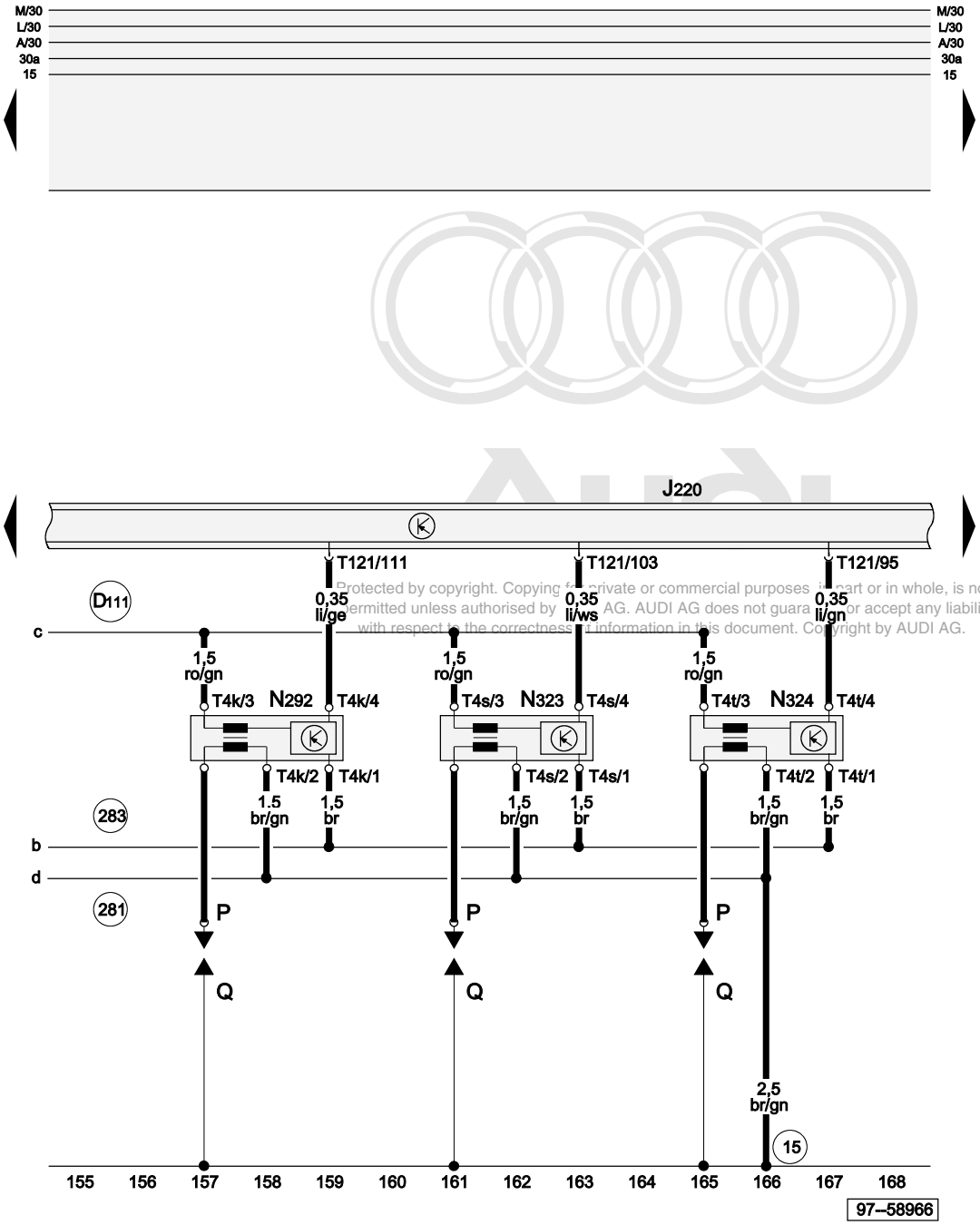


Ignition coils 1 to 3 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
P	Spark plug connector
Q	Spark plugs
SB6	Fuse 6 on fuse holder
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T4j	4-pin connector, black, on ignition coil 3 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
B319	Positive connection 5 (30a), in main wiring harness
D110	Connection 8, in engine compartment wiring harness
D111	Connection 9, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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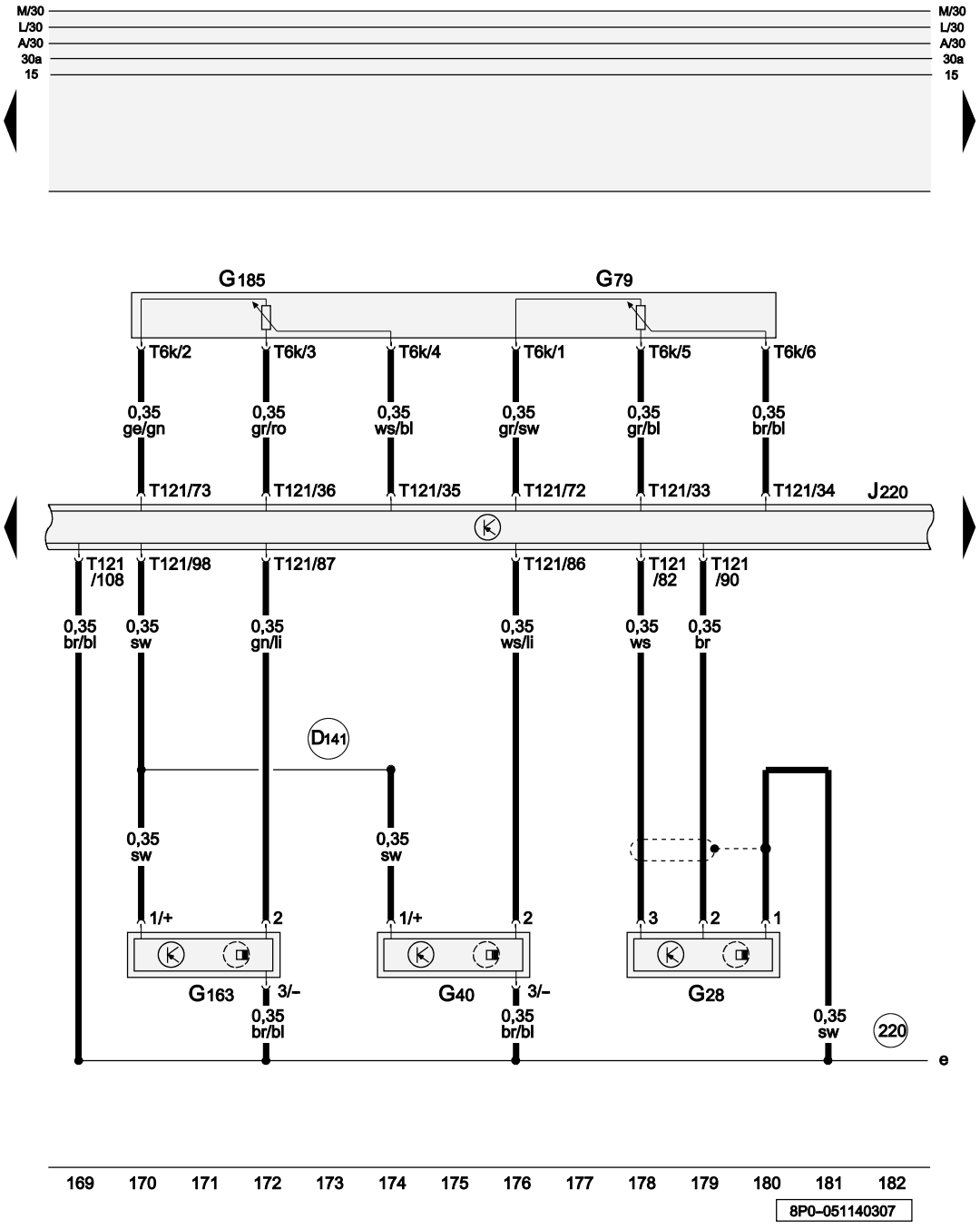


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Ignition coils 3 to 6 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N292	Ignition coil 4 with output stage
N323	Ignition coil 5 with output stage
N324	Ignition coil 6 with output stage
P	Spark plug connector
Q	Spark plugs
T4k	4-pin connector, black, on ignition coil 4 with output stage
T4s	4-pin connector, black, on ignition coil 5 with output stage
T4t	4-pin connector, black, on ignition coil 6 with output stage
T121	121-pin connector, black, on engine control unit
15	Earth point, on cylinder head
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
D111	Connection 9, in engine compartment wiring harness

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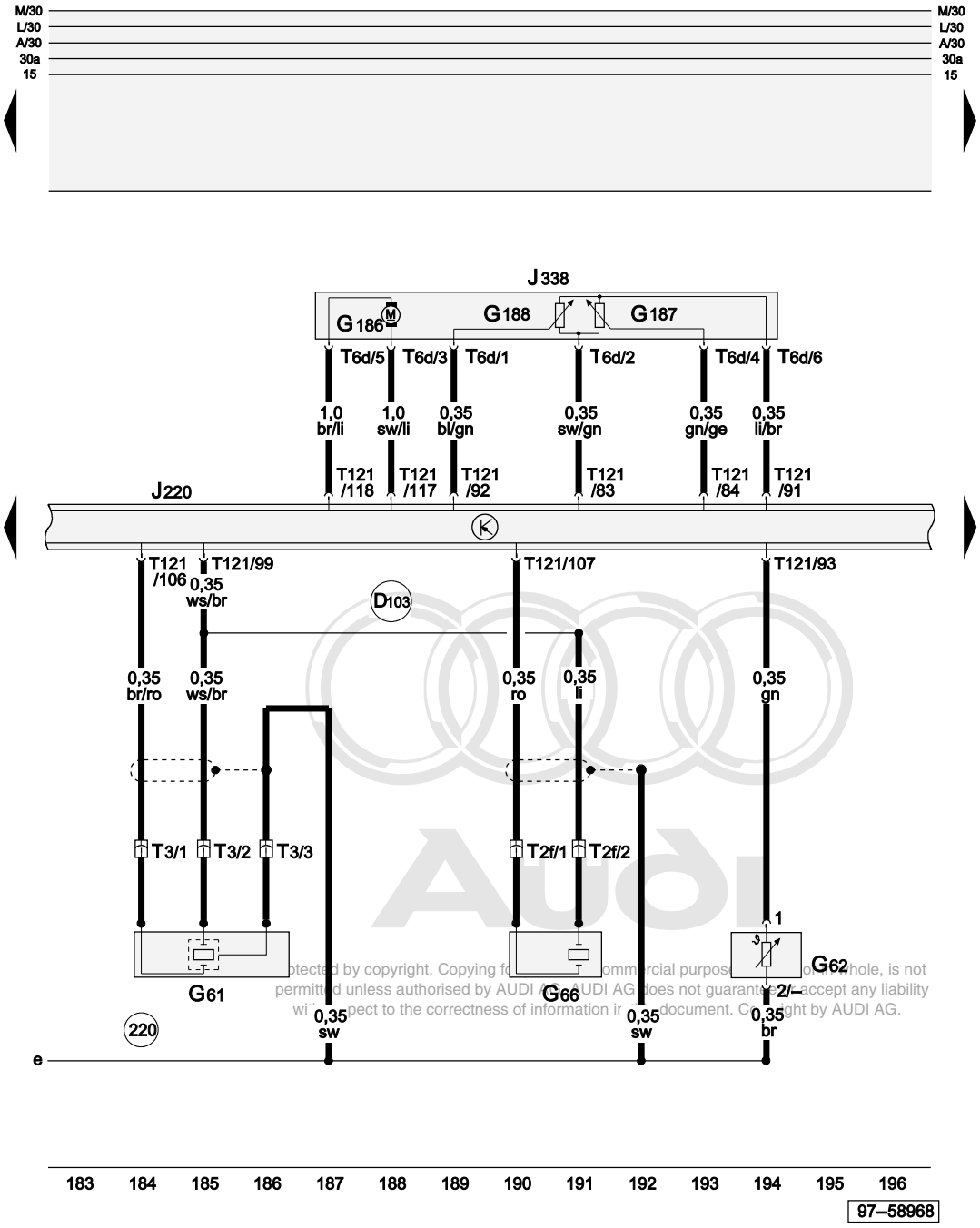


Hall sender, accelerator position sender

G28	Engine speed sender
G40	Hall sender
G79	Accelerator position sender
G163	Hall sender 2
G185	Accelerator position sender 2
J220	Motronic control unit
T6k	6-pin connector, black, near accelerator position sender
T121	121-pin connector, black, on engine control unit
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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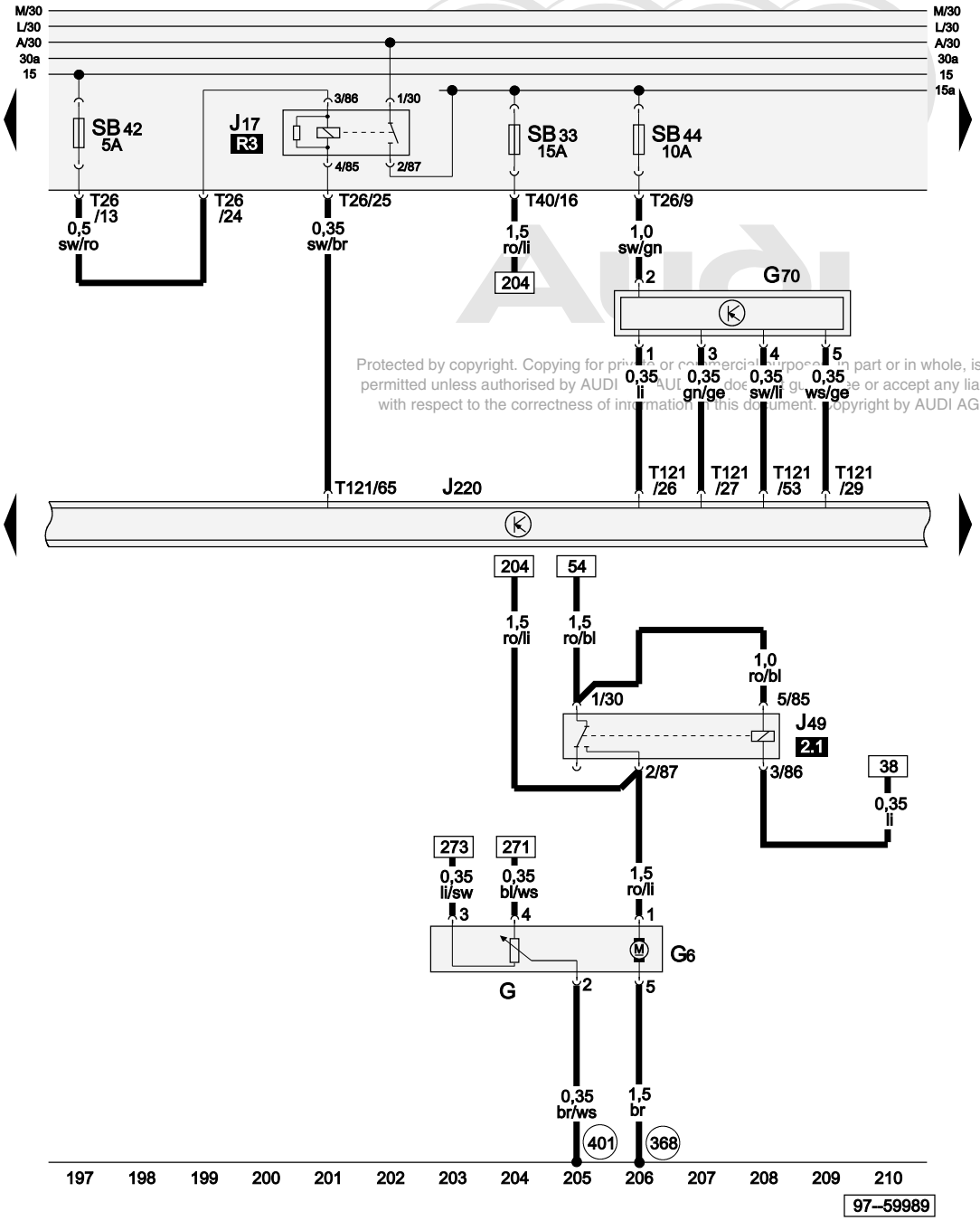


Throttle valve module, coolant temperature sender, knock sensors

G61	Knock sensor 1
G62	Coolant temperature sender
G66	Knock sensor 2
G186	Throttle valve drive, electric throttle
G187	Throttle valve drives angle sender 1, electric throttle
G188	Throttle valve drives angle sender 2, electric throttle
J220	Motronic control unit
J338	Throttle valve module
T2f	2-pin connector, black, in left engine compartment (knock sensor 2)
T3	3-pin connector, red, in left engine compartment (knock sensor)
T6d	6-pin connector, black, near throttle valve module
T121	121-pin connector, black, on engine control unit
220	Earth connection (sender earth), in engine wiring harness
D103	Connection 3, in engine compartment wiring harness

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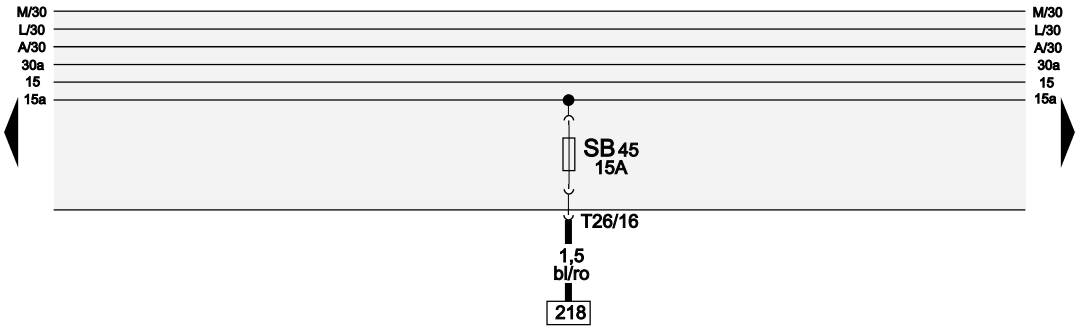


Fuel pump, fuel gauge sender, air mass meter

G	Fuel gauge sender
G6	Fuel system pressurisation pump
G70	Air mass meter
J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J220	Motronic control unit
SB33	Fuse 33 on fuse holder
SB42	Fuse 42 on fuse holder
SB44	Fuse 44 on fuse holder
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness

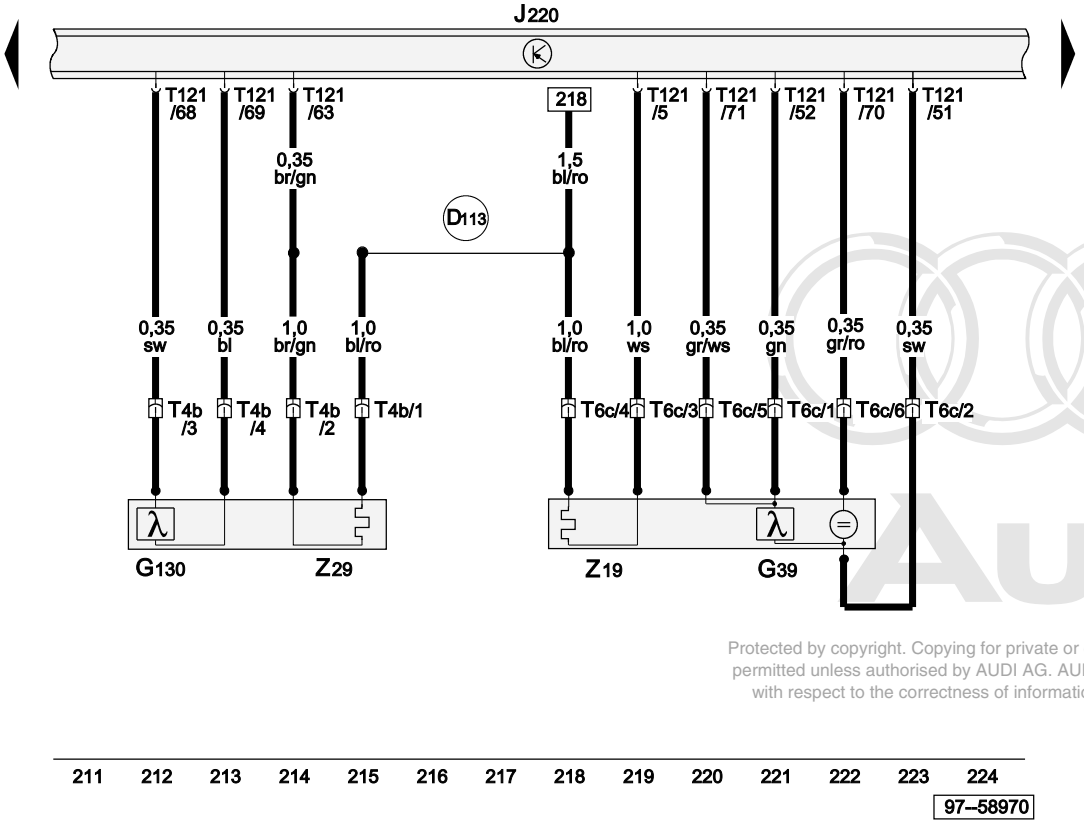
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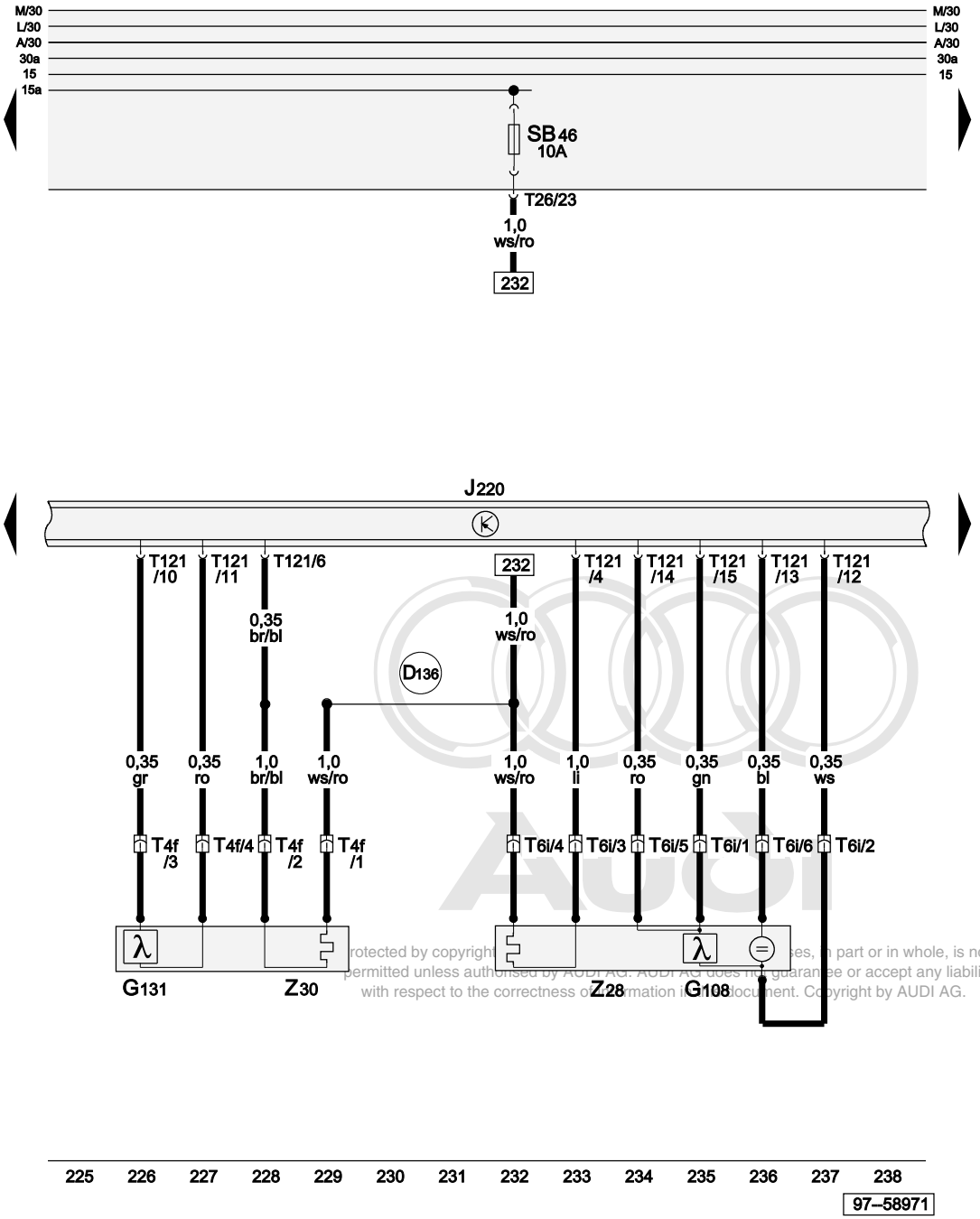
Lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J220	Motronic control unit
SB45	Fuse 45 on fuse holder
T4b	4-pin connector, black, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D113	Connection 11, in engine compartment wiring harness



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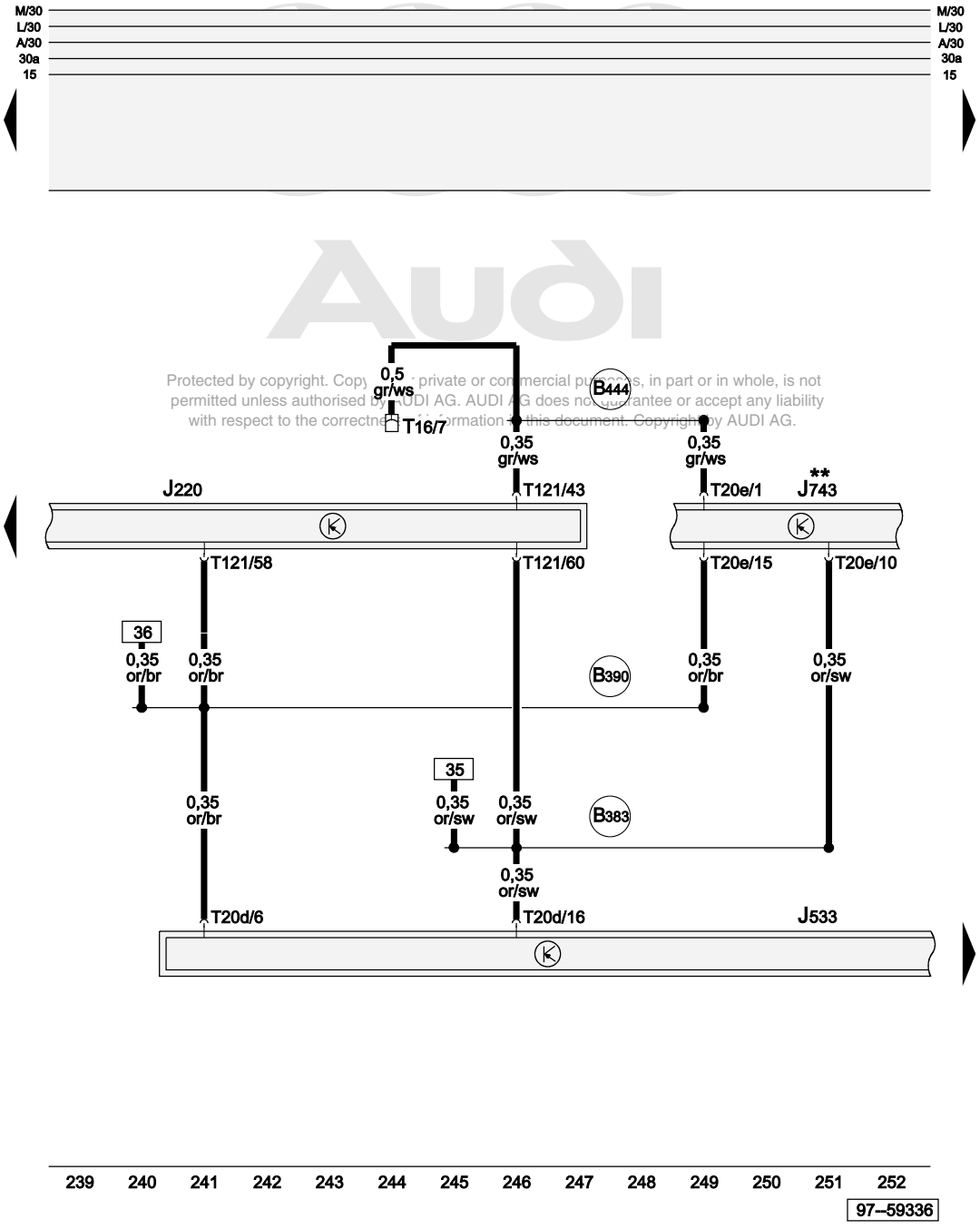


Lambda probe 2, lambda probe 2 after catalytic converter

G108	Lambda probe 2
G131	Lambda probe 2 after catalytic converter
J220	Motronic control unit
SB46	Fuse 46 on fuse holder
T4f	4-pin connector, brown, on lambda probe 2 after catalytic converter
T6i	6-pin connector, brown, on lambda probe 2 upstream of catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
Z28	Lambda probe 2 heater
Z30	Lambda probe 2 heater after catalytic converter
D136	Positive connection 2 (15a), in engine compartment wiring harness

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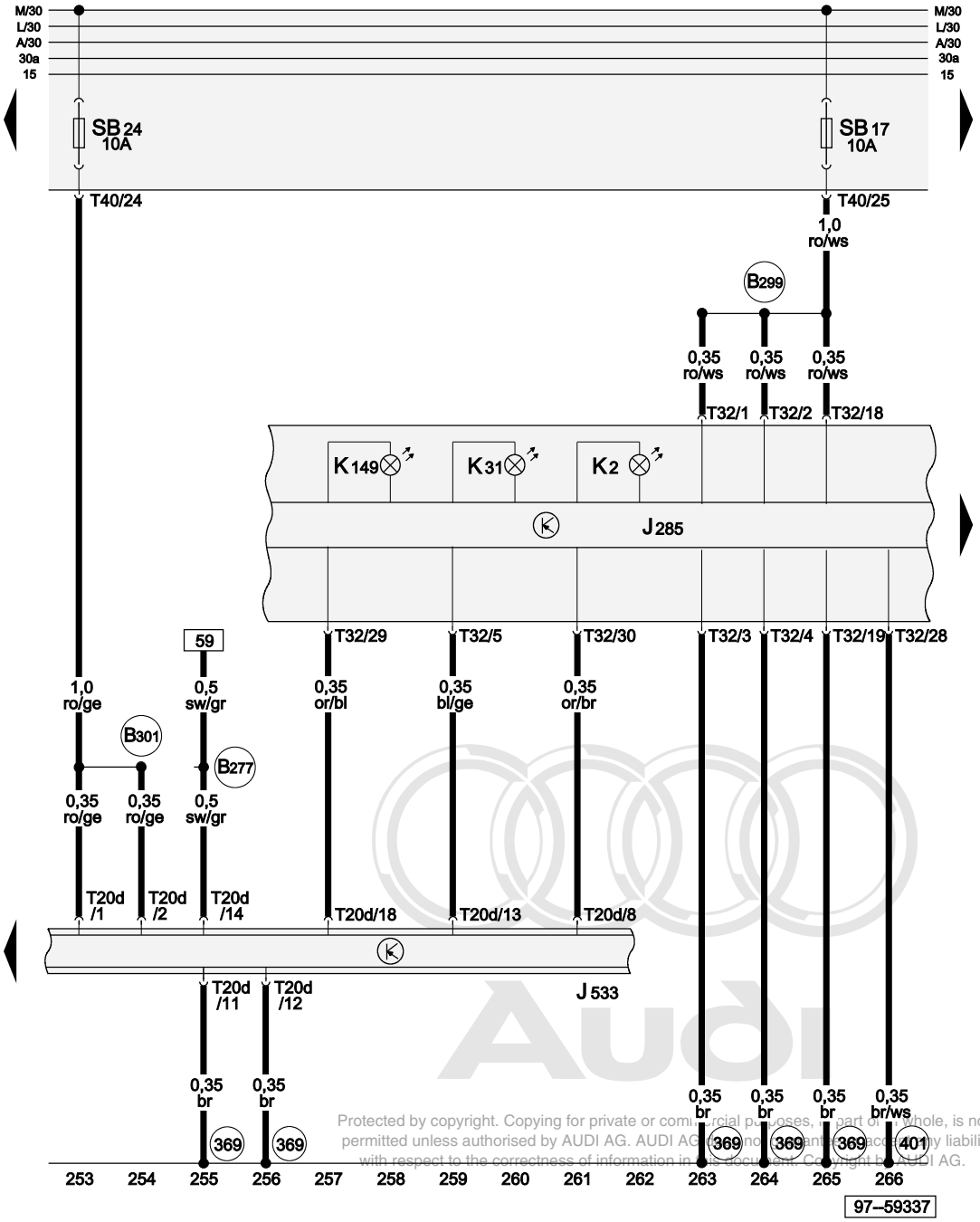


Drive train CAN bus, K-diagnosis wiring

J220	Motronic control unit
J533	Data bus diagnostic interface
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
**	for models with direct shift gearbox (02E) only

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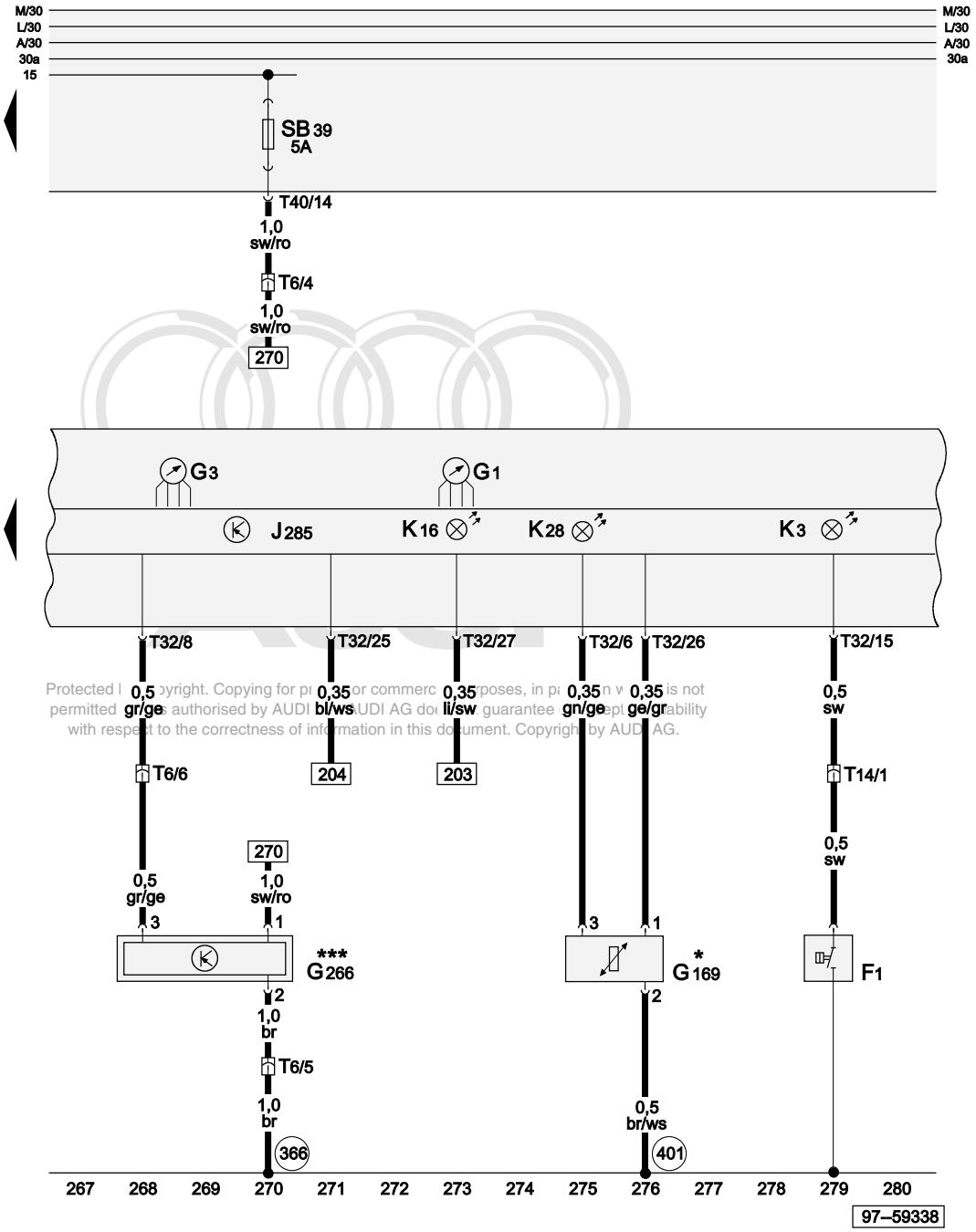


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Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
401	Earth connection (sender earth), in interior wiring harness
369	Earth connection 4, in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G169	Fuel gauge sender 2
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
*	for models with four-wheel drive only
***	for models with extended servicing intervals (ESI) only

Garage door operation - (Homelink)

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

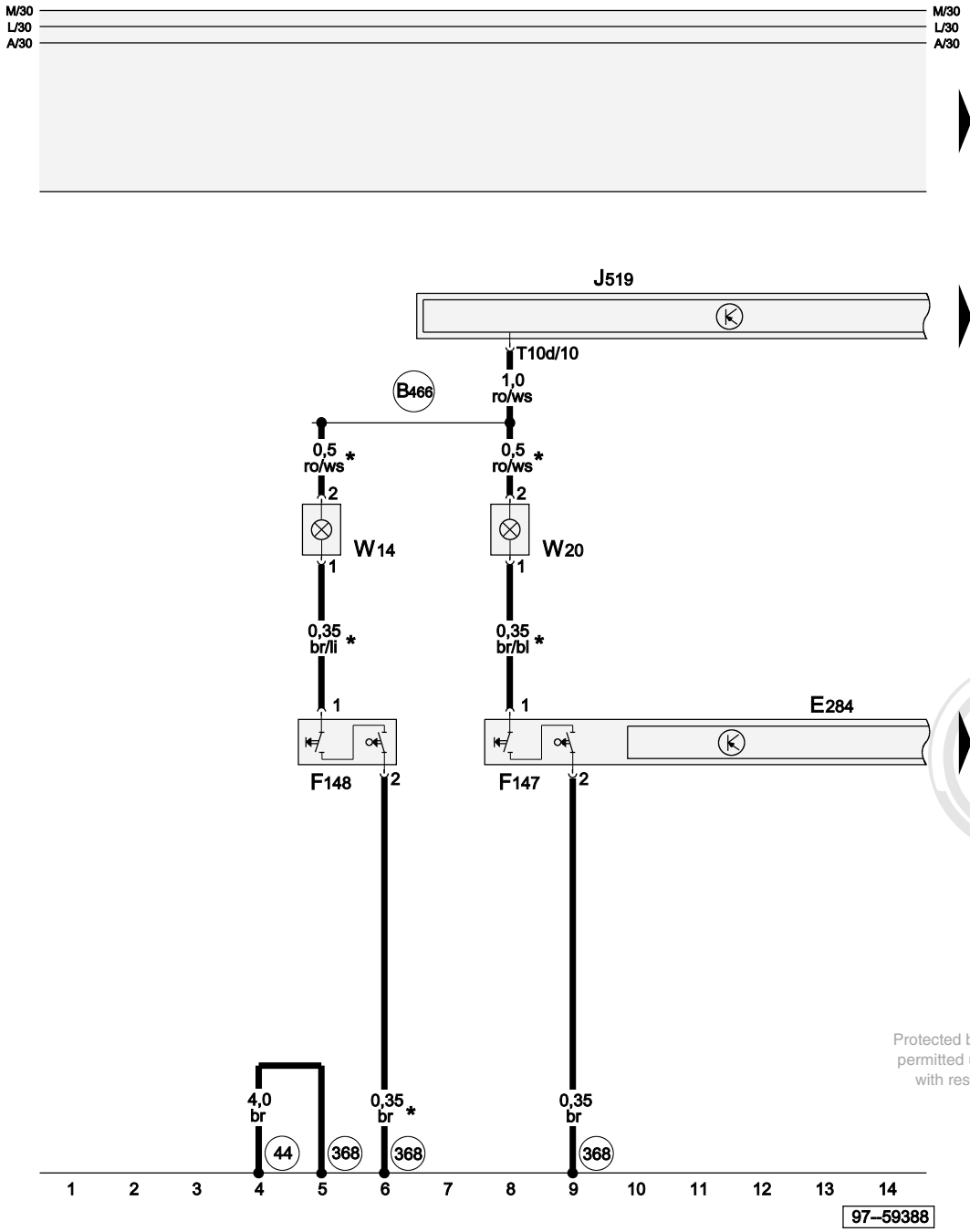
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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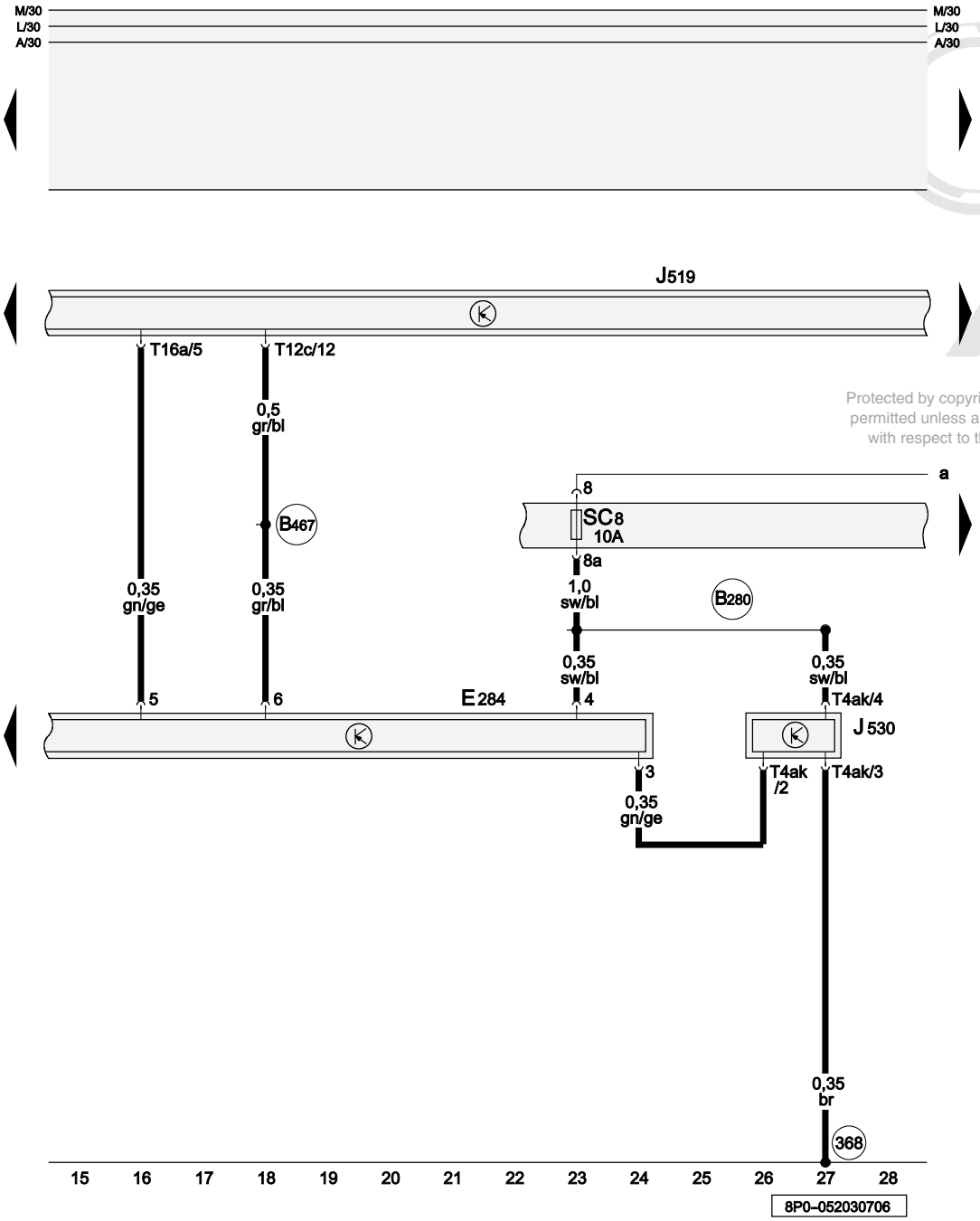


Garage door operating unit

E284	Garage door operating unit
F147	Driver vanity mirror contact switch
F148	Front passenger vanity mirror contact switch
J519	Onboard supply control unit
T10d	10-pin connector, black (connector K)
W14	Illuminated vanity mirror (front passenger side)
W20	Illuminated vanity mirror (driver side)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B466	Connection 2, in main wiring harness
*	models with illuminated vanity mirror only

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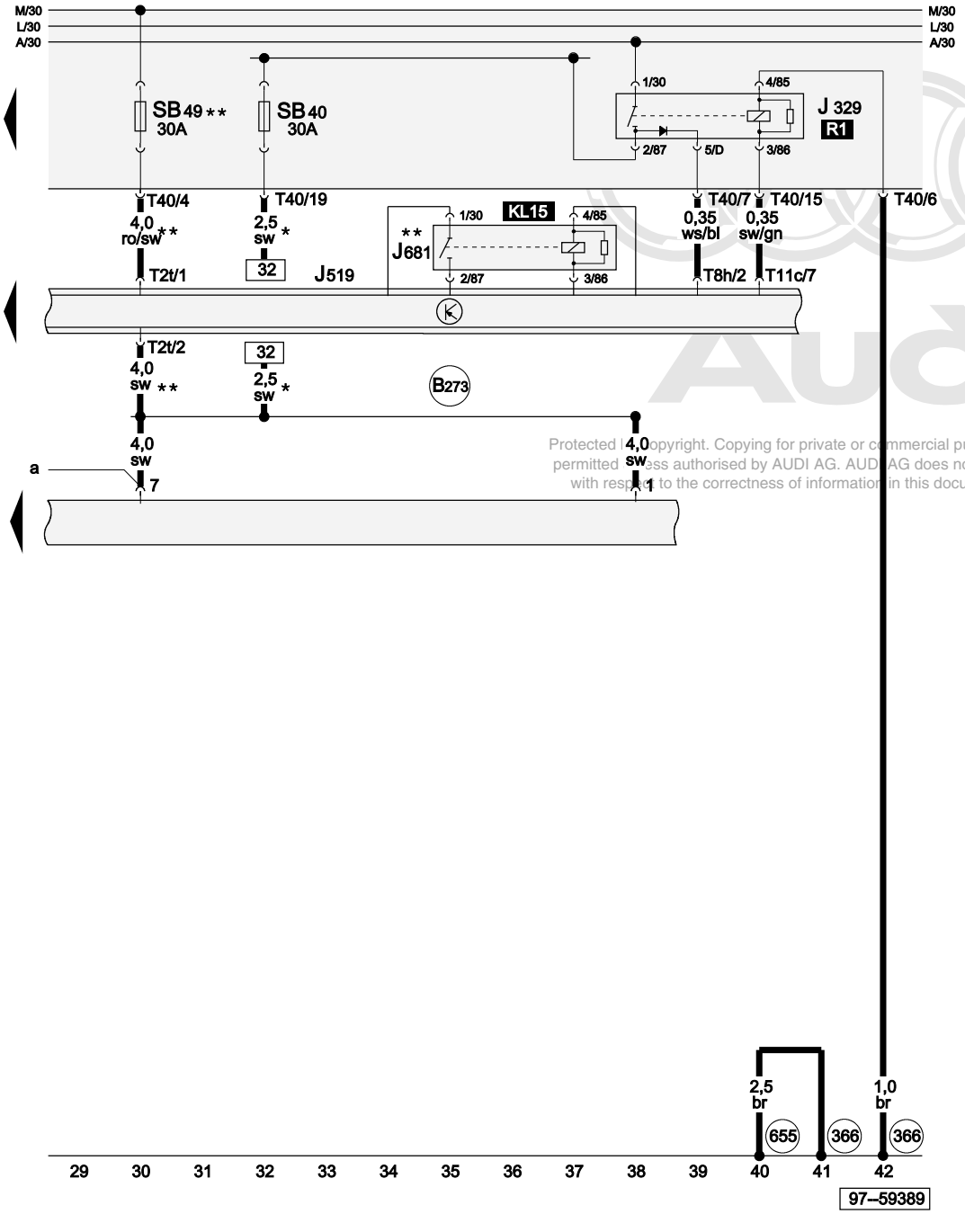


Garage door operating unit, garage door operation control unit

E284	Garage door operating unit
J519	Onboard supply control unit
J530	Garage door operation control unit
SC8	Fuse 8 on fuse holder
T4ak	4-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T16a	16-pin connector, black (connector E)
368	Earth connection 3, in main wiring harness
B280	Positive connection 4 (15a), in main wiring harness
B467	Connection 3, in main wiring harness

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Terminal 15 voltage supply relay, terminal 15 voltage supply relay 2

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder
SB49	Fuse 49 on fuse holder
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B273	Positive connection (15), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

Ultrasonic parking aid, rear

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

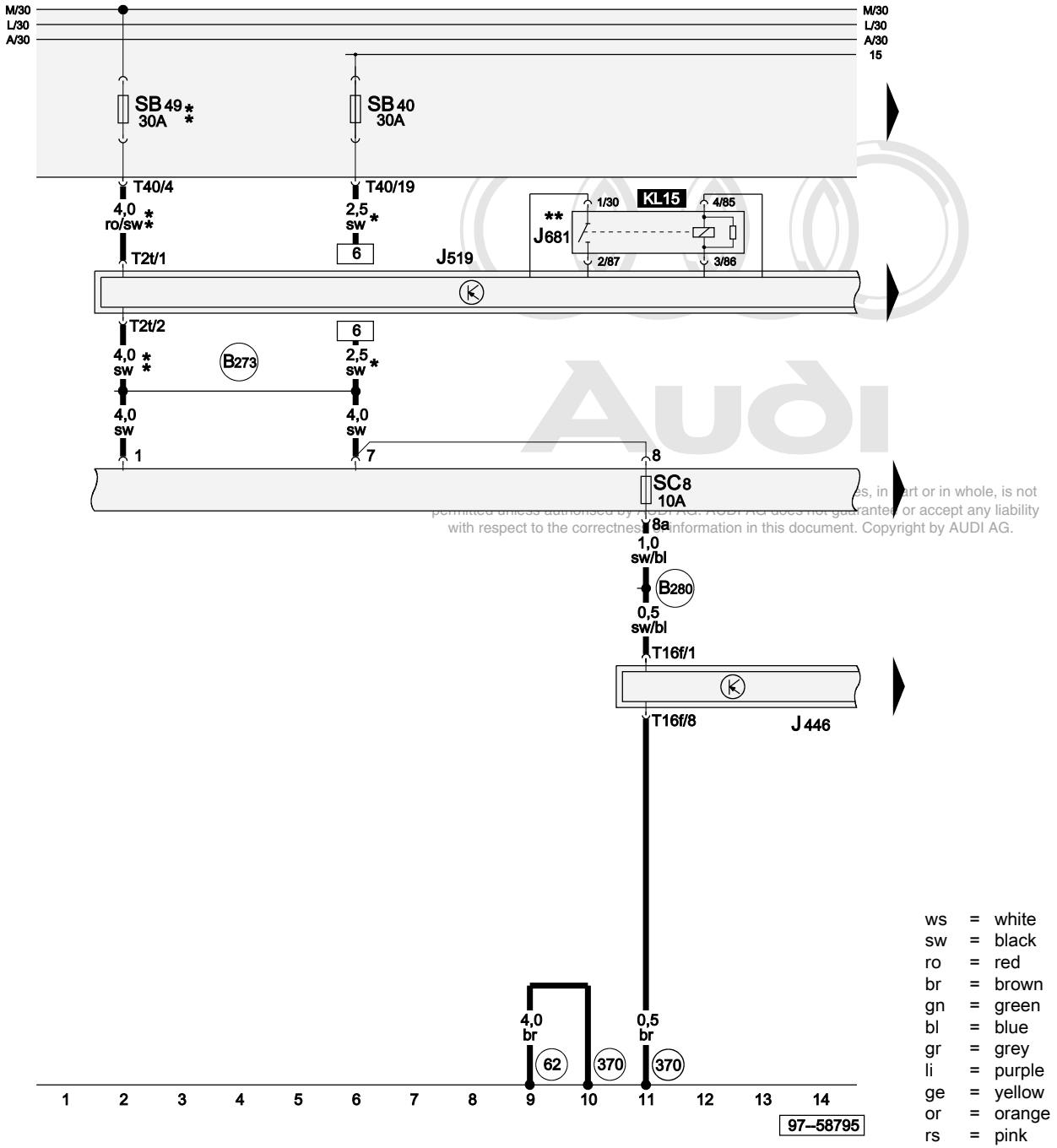
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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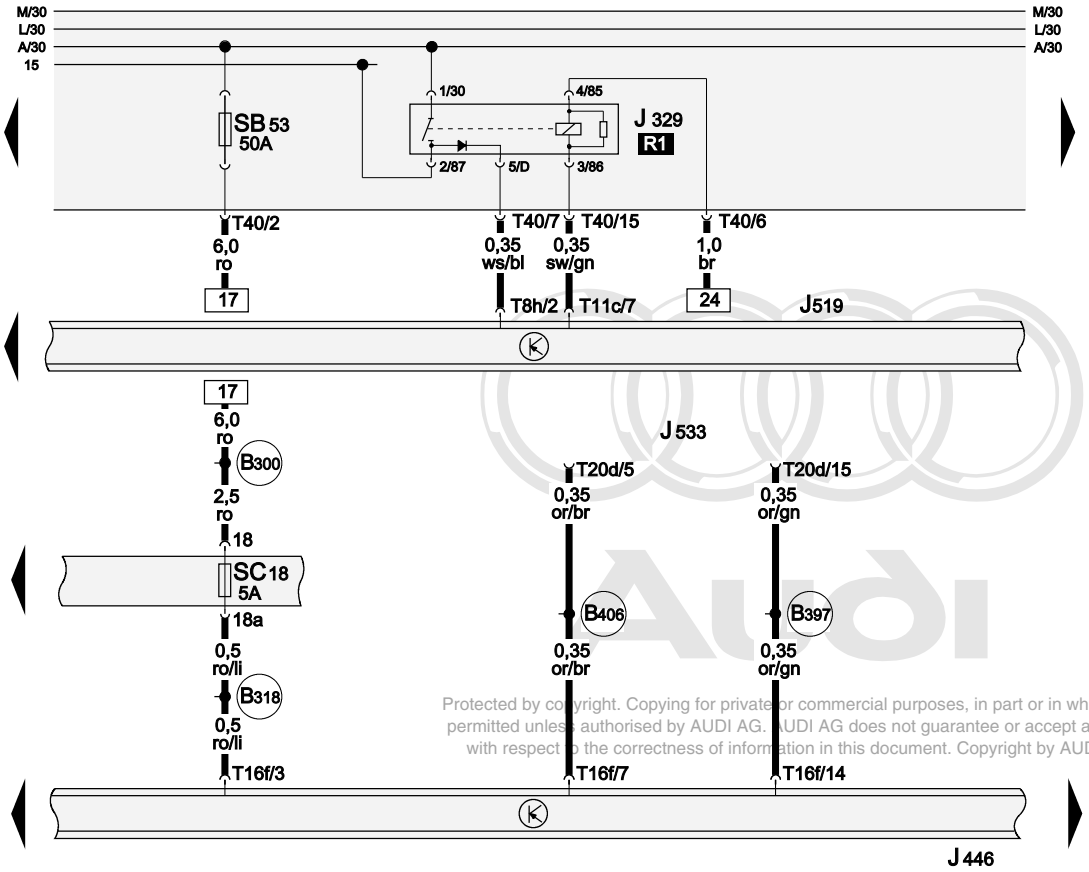


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Voltage supply relay, parking aid control unit, fuses

J446	Parking aid control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC8	Fuse 8 on fuse holder C
T2t	2-pin connector, black (connector L)
T16f	16-pin connector, brown, on parking aid control unit
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
62	Earth point, right C-pillar
370	Earth connection 5, in main wiring harness
B273	Positive connection (15), in main wiring harness
B280	Positive connection 4 (15a), in main wiring harness
*	For models with battery in engine compartment only
**	For models with battery in luggage compartment only



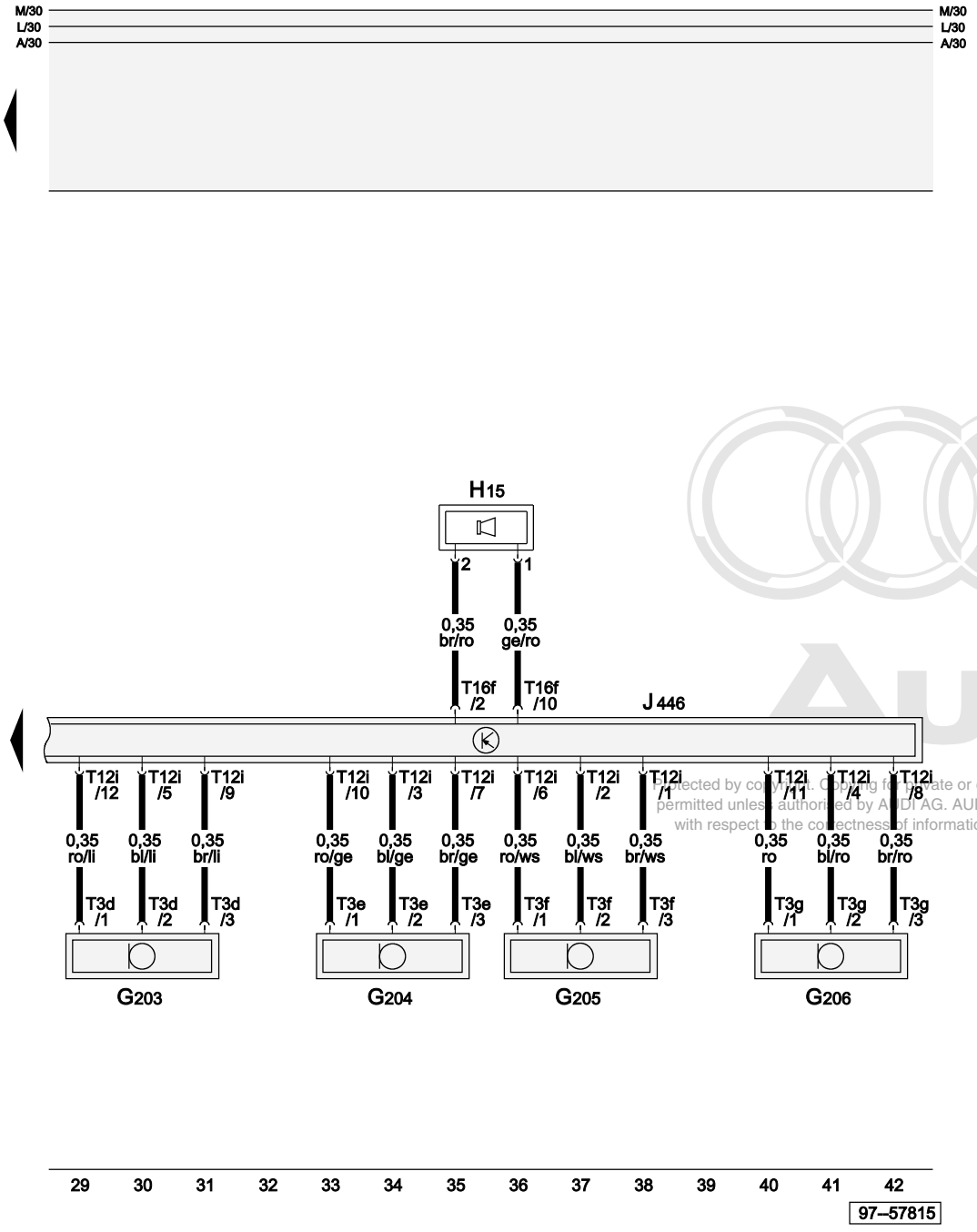
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Parking aid control unit, data bus diagnostic interface, fuses

J329	Terminal 15 voltage supply relay
J446	Parking aid control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
SB53	Fuse 53 on fuse holder
SC18	Fuse 18 on fuse holder
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T16f	16-pin connector, brown, on parking aid control unit
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B300	Positive connection 4 (30), in main wiring harness
B318	Positive connection 4 (30a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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Parking aid sender, parking aid warning buzzer, parking aid control unit

G203	Rear left parking aid sender
G204	Rear centre left parking aid sender
G205	Rear centre right parking aid sender
G206	Rear right parking aid sender
H15	Rear parking aid warning buzzer
J446	Parking aid control unit
T3d	3-pin connector, black, on rear left parking aid sender
T3e	3-pin connector, black, on rear centre left parking aid sender
T3f	3-pin connector, black, on rear centre right parking aid sender
T3g	3-pin connector, black, on rear right parking aid sender
T12i	12-pin connector, black, on parking aid control unit
T16f	16-pin connector, brown, on parking aid control unit

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Trailer operation

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

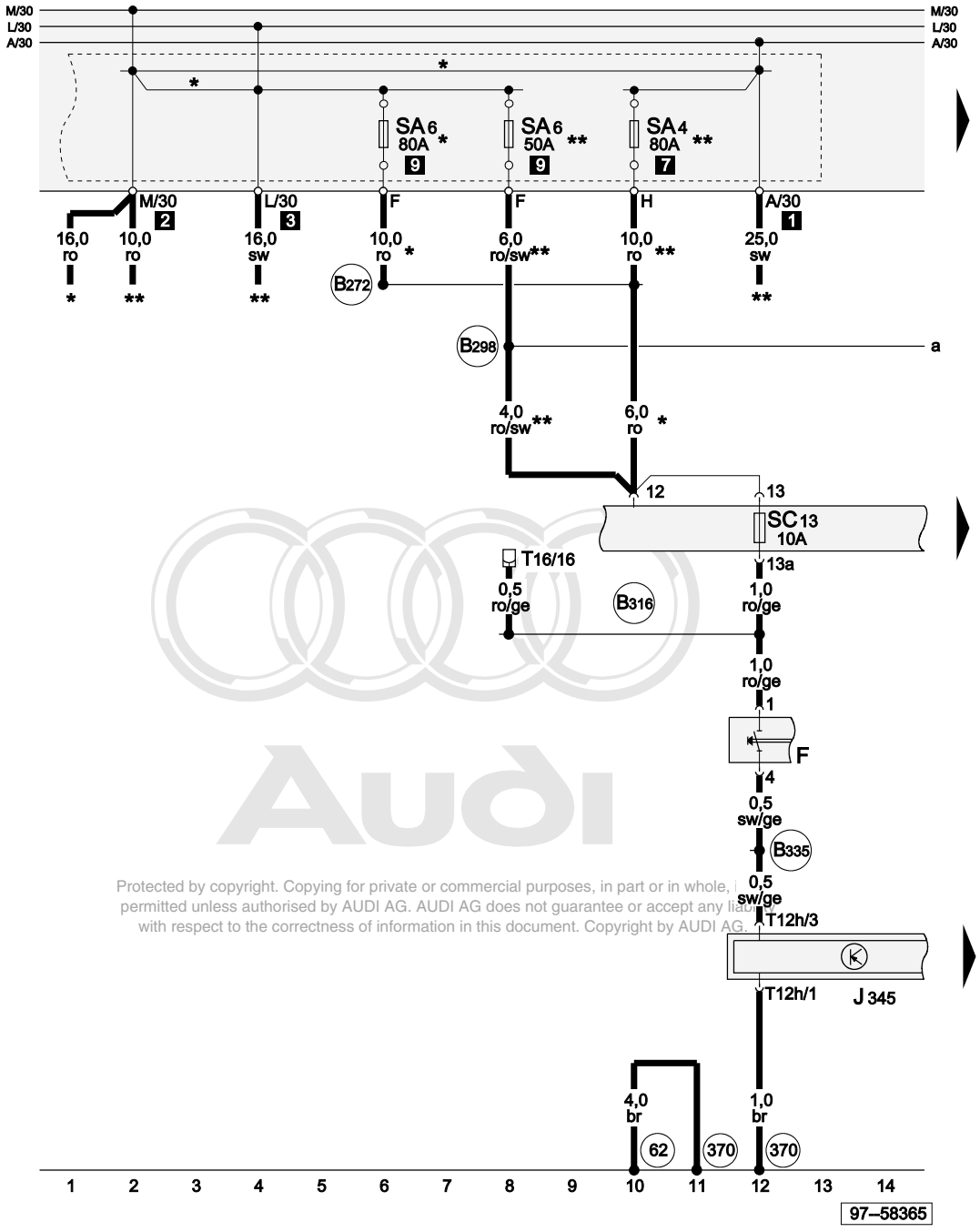
⇒ List of Fitting Locations!

For information concerning

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⇒ guided fault finding

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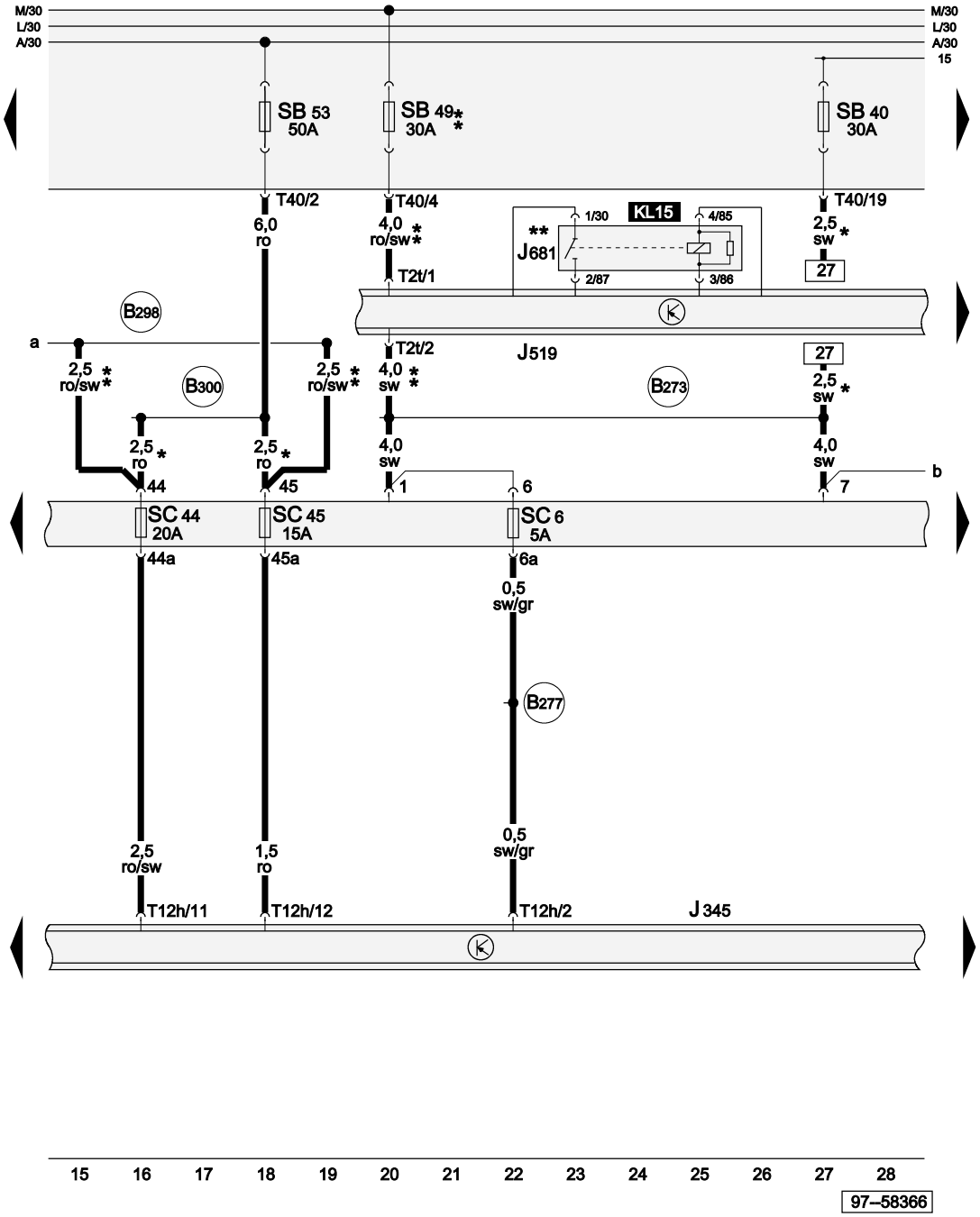


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Fuses, trailer detector control unit

F	Brake light switch
J345	Trailer detector control unit
SA4	Fuse 4 on fuse holder on battery
SA6	Fuse 6 on fuse holder on battery
SC13	Fuse 13 on fuse holder
T12h	12-pin connector, red (connector A)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
62	Earth point, right C-pillar
370	Earth connection 5, in main wiring harness
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ Applicable Current Flow Diagram with battery in engine compartment
**	⇒ Applicable Current Flow Diagram with battery in luggage compartment

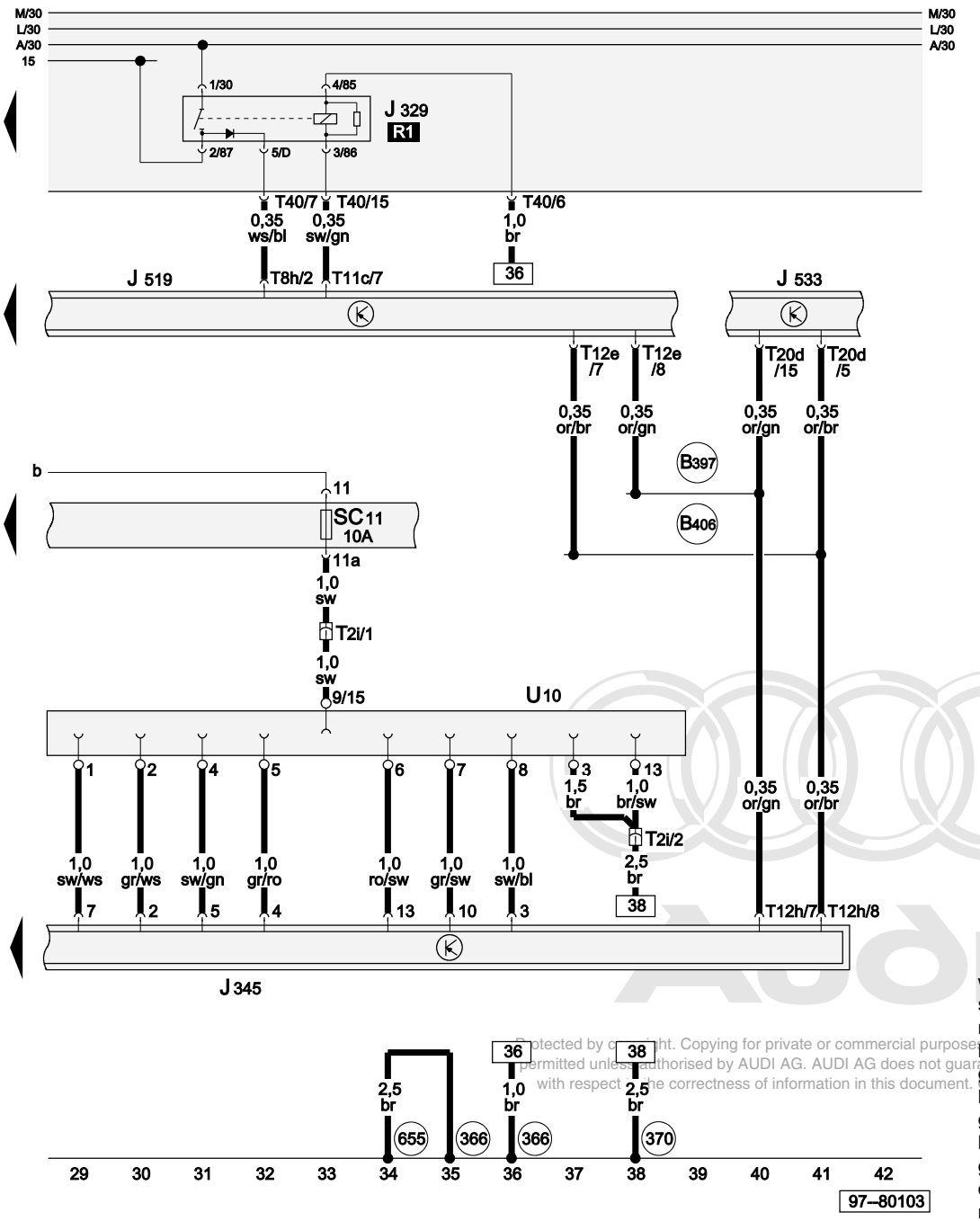


Fuses, trailer detector control unit

J345	Trailer detector control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse -40- on fuse holder
SB49	Fuse -49- on fuse holder
SB53	Fuse -53- on fuse holder
SC6	Fuse -6- on fuse holder
SC44	Fuse -44- on fuse holder
SC45	Fuse -45- on fuse holder
T2t	2-pin connector, black (connector L)
T12h	12-pin connector, red (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
B277	Positive connection -1- (15a), in main wiring harness
B298	Positive connection -2- (30), in main wiring harness
B300	Positive connection -4- (30), in main wiring harness
*	For models with battery in engine compartment only
**	For models with battery in luggage compartment only

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Voltage supply relay, trailer socket

J329	Terminal 15 voltage supply relay
J345	Trailer detector control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
SC11	Fuse 11 on fuse holder
T2i	2-pin connector, black, on trailer socket
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T12e	12-pin connector, black (connector G)
T12h	12-pin connector, red (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
U10	Trailer socket
366	Earth connection 1, in main wiring harness
370	Earth connection 5, in main wiring harness
655	Earth point, on left headlight
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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Heated front seats (models with air conditioning system and manual seat adjustment)

From model year 2005

Notes:

Information on

- Position of relays and fuses
- Multi-pin connectors
- Control units and relays
- Earth connections

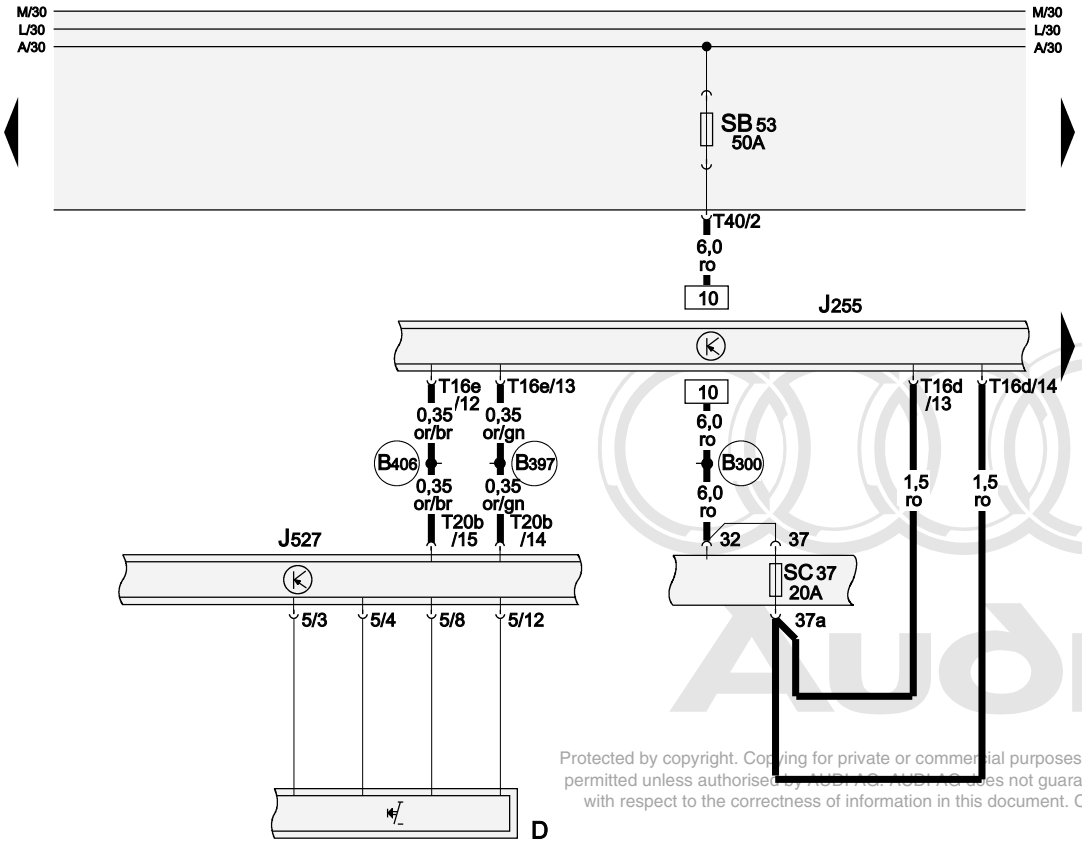
⇒ Overview of Fitting Locations

Information on

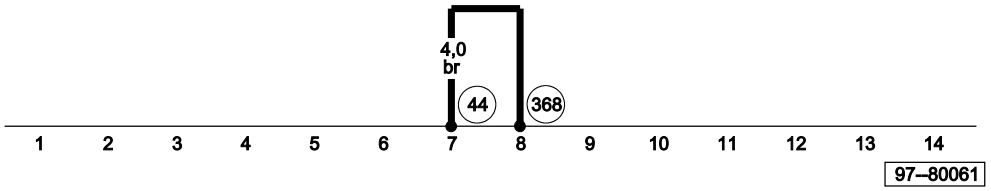
- Fault Finding Programmes

⇒ Guided Fault Finding

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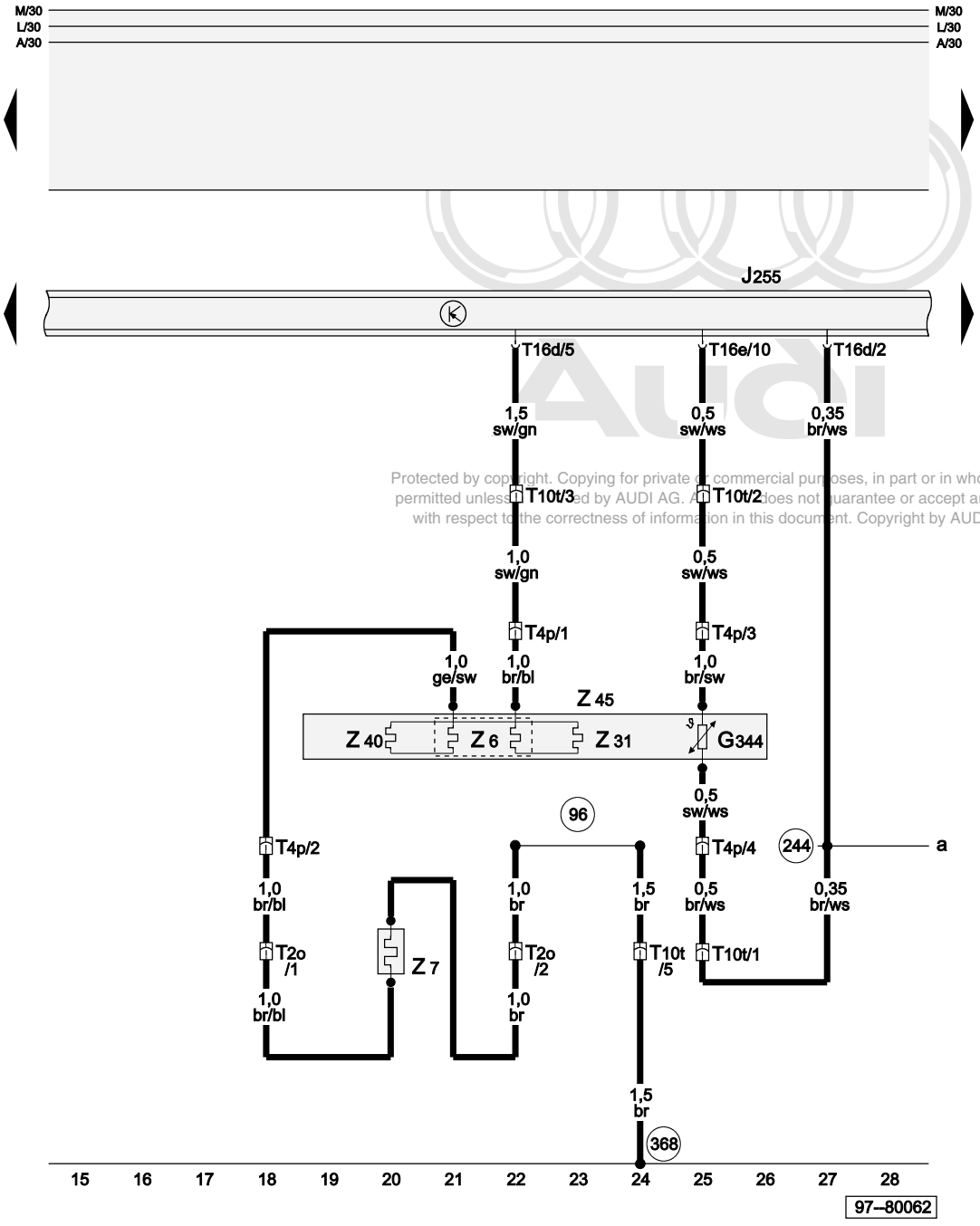
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Fuses on fuse box

D	Ignition/starter switch
J255	Climatronic control unit
J527	Steering column electronics control unit
SB53	Fuse 53 on fuse box
SC37	Fuse 37 on fuse box
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
44	Earth point, A pillar, bottom left
368	Earth connection 3, in main wiring harness
B300	Positive (+) connection 4 (30), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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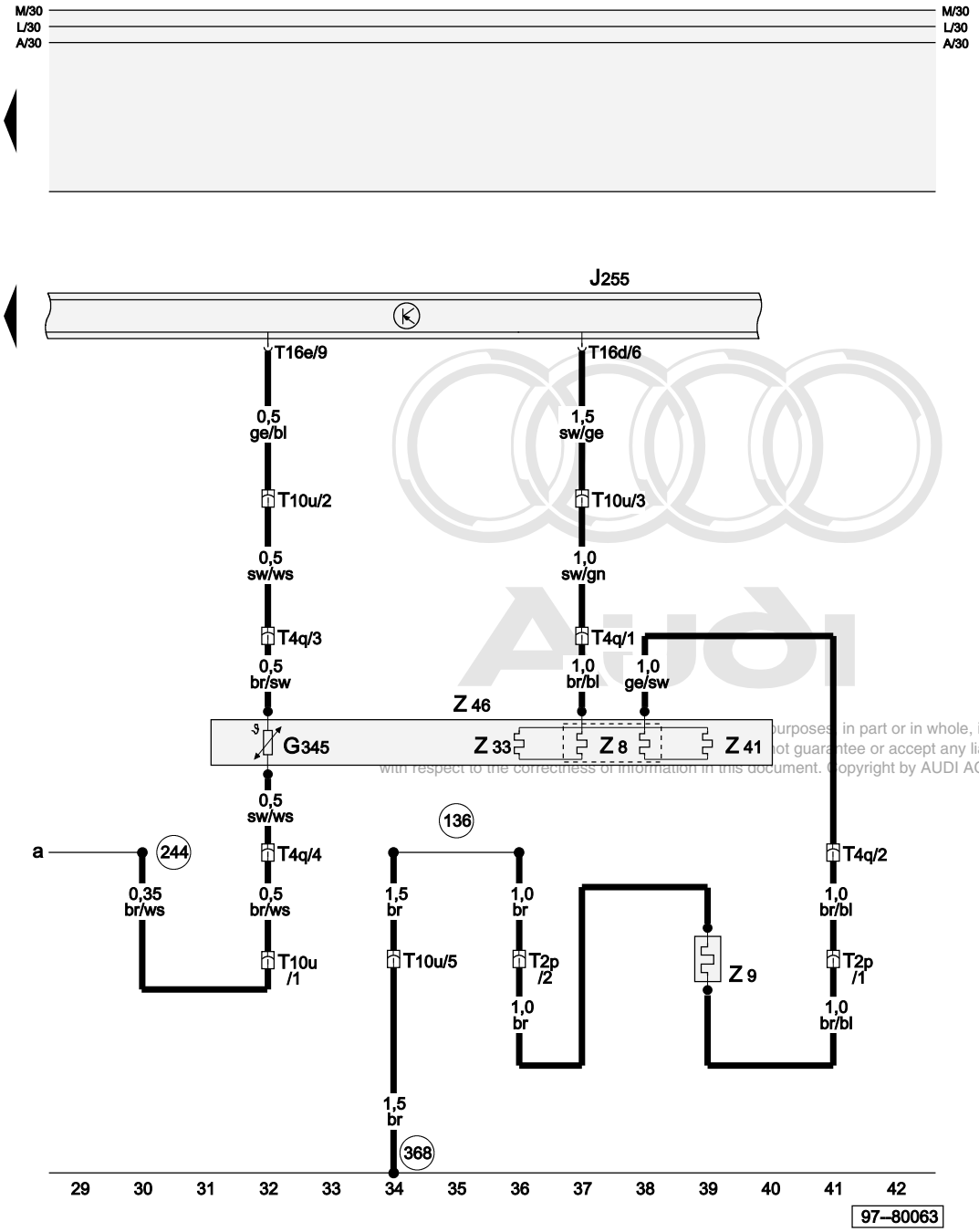


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Heated driver's seat

G344	Temperature sensor for front left seat
J255	Climatronic control unit
T2o	2-pin connector, black, on driver's seat for heated backrest
T4p	4-pin connector, black, on heated driver's seat
T10t	10-pin connector, black, under driver's seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z6	Heated driver's seat cushion
Z7	Heated driver's seat backrest
Z31	Driver's seat lateral support heater
Z40	Driver's seat lateral support heater 2
Z45	Front left seat heating
96	Earth connection 1, in seat heating wiring harness
244	Earth connection (sender earth), in Climatronic wiring harness
368	Earth connection 3, in main wiring harness

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Heated front passenger's seat

G345	Temperature sensor for front right seat
J255	Climatronic control unit
T2p	2-pin connector, black, on front passenger's seat for heated backrest
T4q	4-pin connector, black, on heated front passenger's seat
T10u	10-pin connector, black, under front passenger's seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z8	Heated front passenger's seat cushion
Z9	Heated front passenger's seat backrest
Z33	Front passenger's seat lateral support heater
Z41	Front passenger's seat lateral support heater 2
Z46	Front right seat heating
136	Earth connection 2, in seat heating wiring harness
244	Earth connection (sender earth), in Climatronic wiring harness
368	Earth connection 3, in main wiring harness

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Heated front seats (models without air conditioning system, with manual seat adjustment)

From model year 2005

Notes:

Information on

- Position of relays and fuses
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations

Information on

- Fault Finding Programmes

⇒ Guided Fault Finding

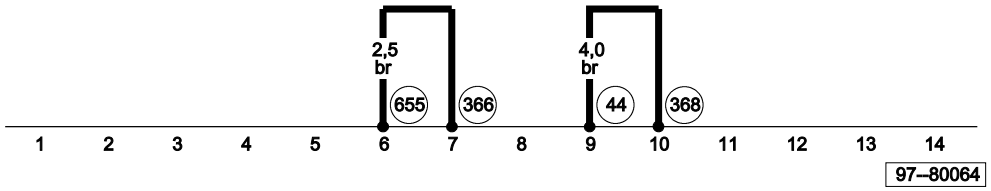
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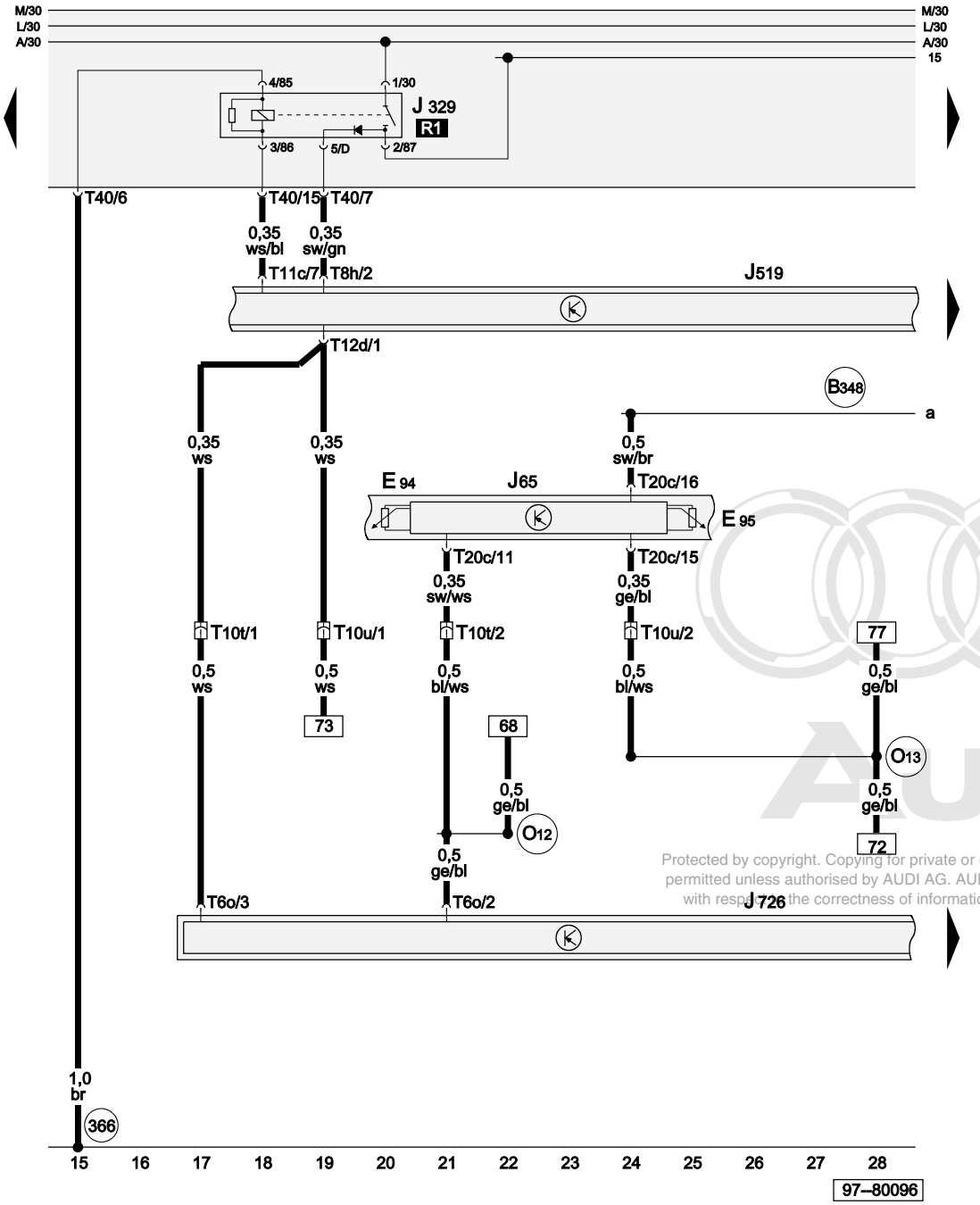
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Earth points, earth connections

- 44 Earth point, A pillar, bottom left
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 655 Earth point on left headlight



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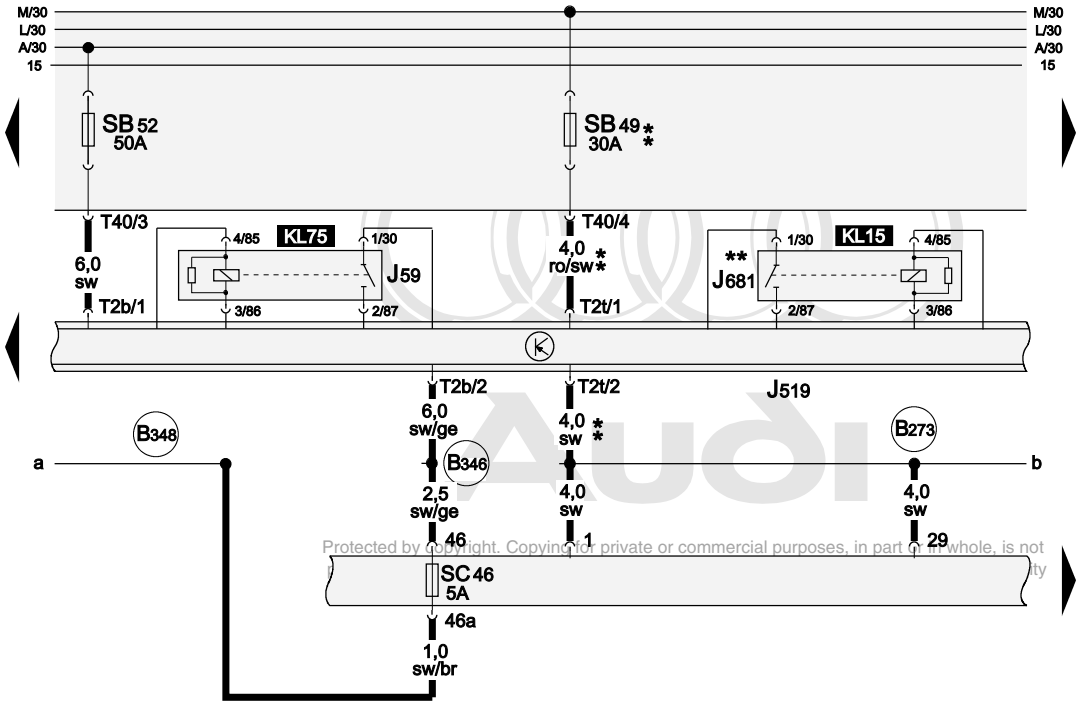


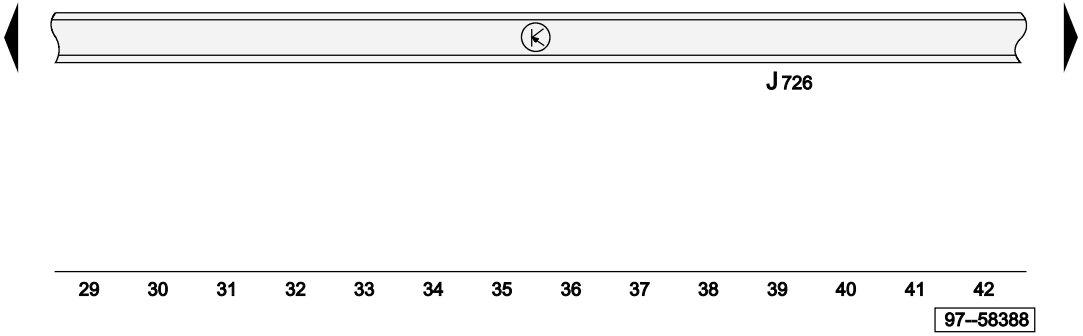
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Heated driver's seat regulator, heated front passenger's seat regulator

E94	Heated driver's seat regulator
E95	Heated front passenger's seat regulator
J65	Heater control unit
J329	Terminal 15 voltage supply relay
J519	Onboard power supply control unit
J726	Driver's seat heating control unit
T6o	6-pin connector, black, on driver's seat heating control unit
T8h	8-pin connector, black (connector F)
T10t	10-pin connector, black, under driver's seat
T10u	10-pin connector, black, under front passenger's seat
T11c	11-pin connector, brown (connector D)
T12d	12-pin connector, brown (connector C)
T20c	20-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B348	Connection 1 (75A), in main wiring harness
O12	Connection 1, in seat heating wiring harness
O13	Connection 2, in seat heating wiring harness

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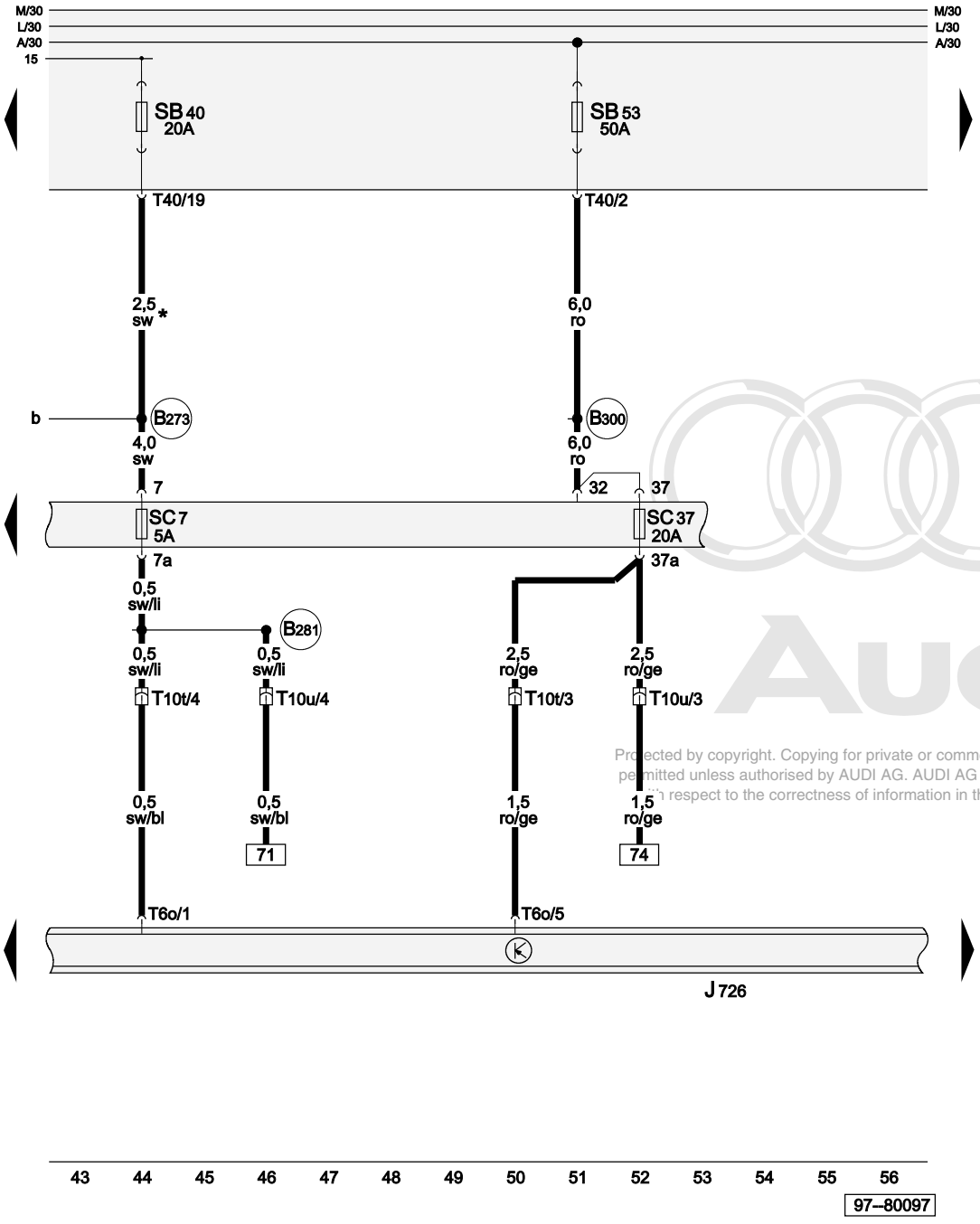


Driver's seat heating control unit, terminal 15 voltage supply relay 2

J59	X contact relief relay
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay 2
J726	Driver's seat heating control unit
SB49	Fuse 49 on fuse box
SB52	Fuse 52 on fuse box
SC46	Fuse 46 on fuse box
T2b	2-pin connector, brown (connector I)
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
B273	Positive (+) connection (15), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
**	Only applies to models with battery in luggage compartment

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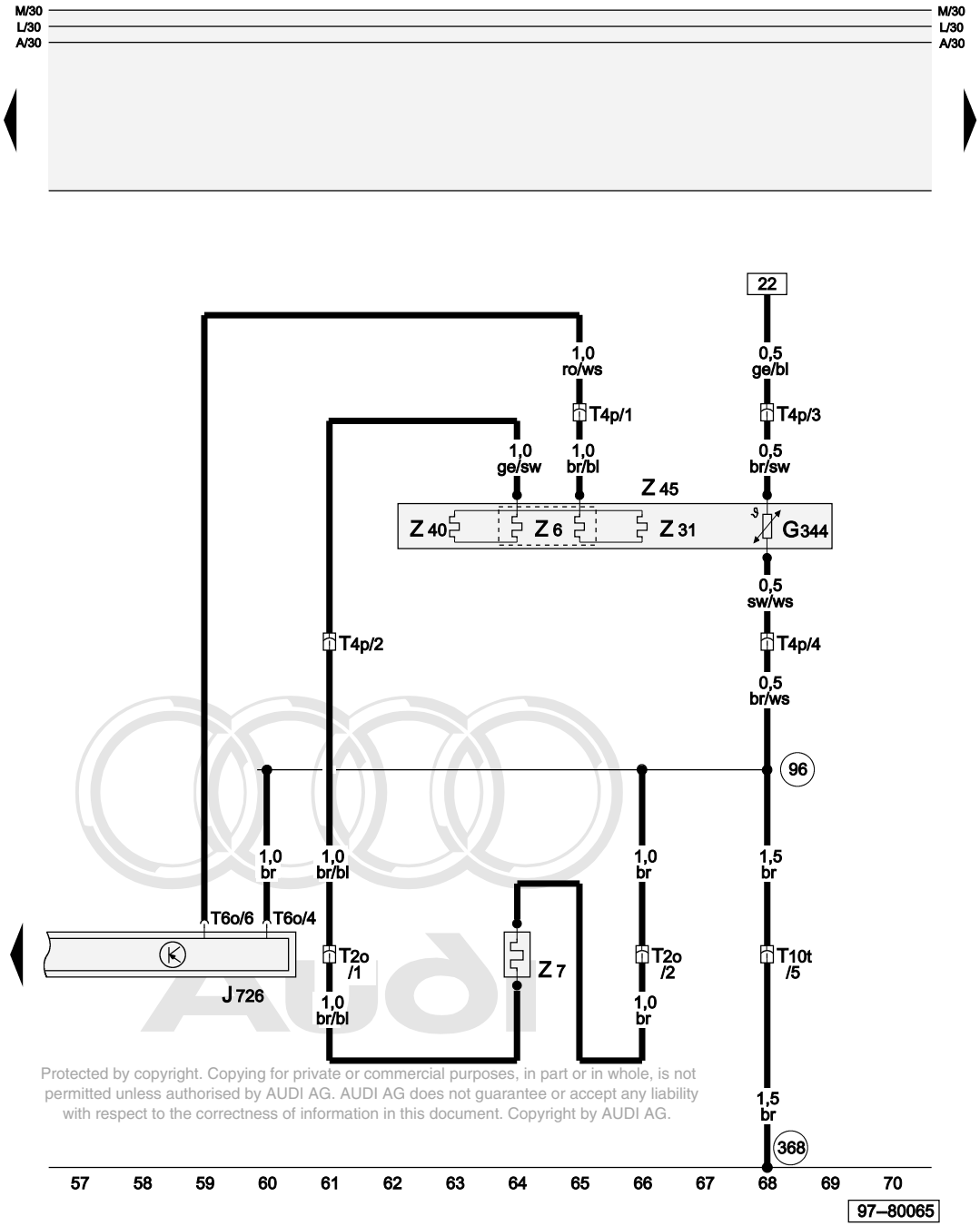


Driver's seat heating control unit, fuses

J726	Driver's seat heating control unit
SB40	Fuse 40 on fuse box
SB53	Fuse 53 on fuse box
SC7	Fuse 7 on fuse box
SC37	Fuse 37 on fuse box
T6o	6-pin connector, black, on driver's seat heating control unit
T10t	10-pin connector, black, under driver's seat
T10u	10-pin connector, black, under front passenger's seat
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
B273	Positive (+) connection (15), in main wiring harness
B281	Positive (+) connection 5 (15a), in main wiring harness
B300	Positive (+) connection 4 (30), in main wiring harness
*	Only applies to models with battery in engine compartment

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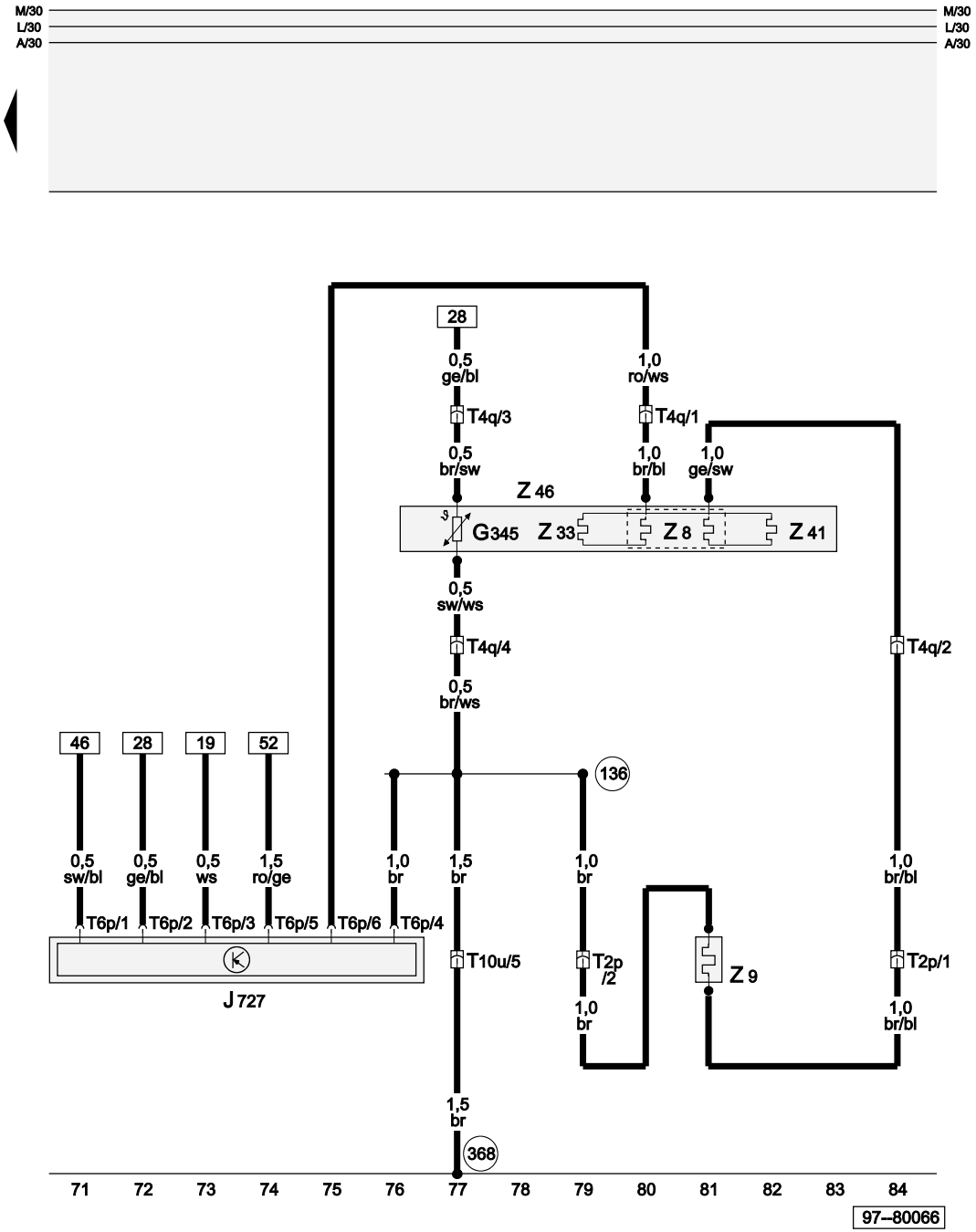


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Driver's seat heating control unit, front left seat heating

G344	Temperature sensor for front left seat
J726	Driver's seat heating control unit
T2o	2-pin connector, black, on driver's seat for heated backrest
T4p	4-pin connector, black, on heated driver's seat
T6o	6-pin connector, black, on driver's seat heating control unit
T10t	10-pin connector, black, under driver's seat
Z6	Heated driver's seat cushion
Z7	Heated driver's seat backrest
Z31	Driver's seat lateral support heater
Z40	Driver's seat lateral support heater 2
Z45	Front left seat heating
96	Earth connection 1, in seat heating wiring harness
368	Earth connection 3, in main wiring harness

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Front passenger's seat heating control unit, front right seat heating

G345	Temperature sensor for front right seat
J727	Front passenger's seat heating control unit
T2p	2-pin connector, black, on front passenger's seat for heated backrest
T4q	4-pin connector, black, on heated front passenger's seat
T6p	6-pin connector, black, on front passenger's seat heating control unit
T10u	10-pin connector, black, under front passenger's seat
Z8	Heated front passenger's seat cushion
Z9	Heated front passenger's seat backrest
Z33	Front passenger's seat lateral support heater
Z41	Front passenger's seat lateral support heater 2
Z46	Front right seat heating
136	Earth connection 2, in seat heating wiring harness
368	Earth connection 3, in main wiring harness

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Heated rear seats (models with and without air conditioning system)

From model year 2005

Notes:

Information on

- Position of relays and fuses
- Multi-pin connectors
- Control units and relays
- Earth connections

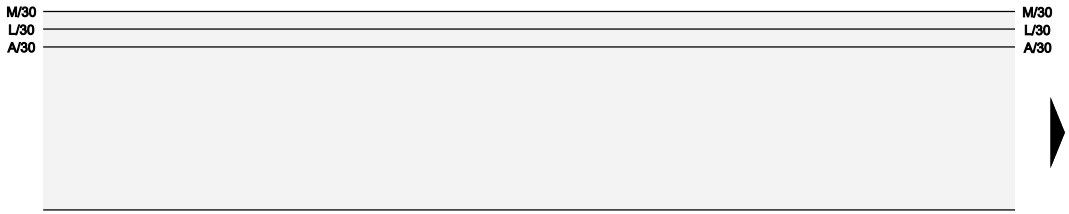
⇒ Overview of Fitting Locations

Information on

- Fault Finding Programmes

⇒ Guided Fault Finding

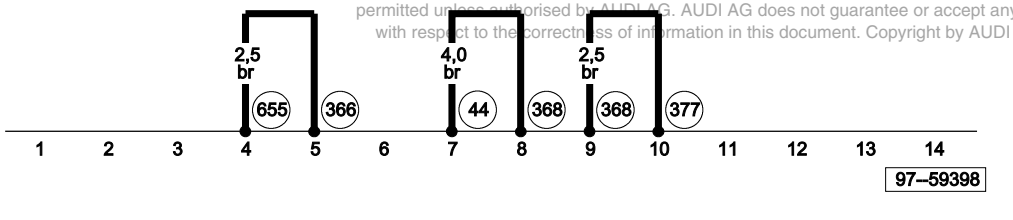
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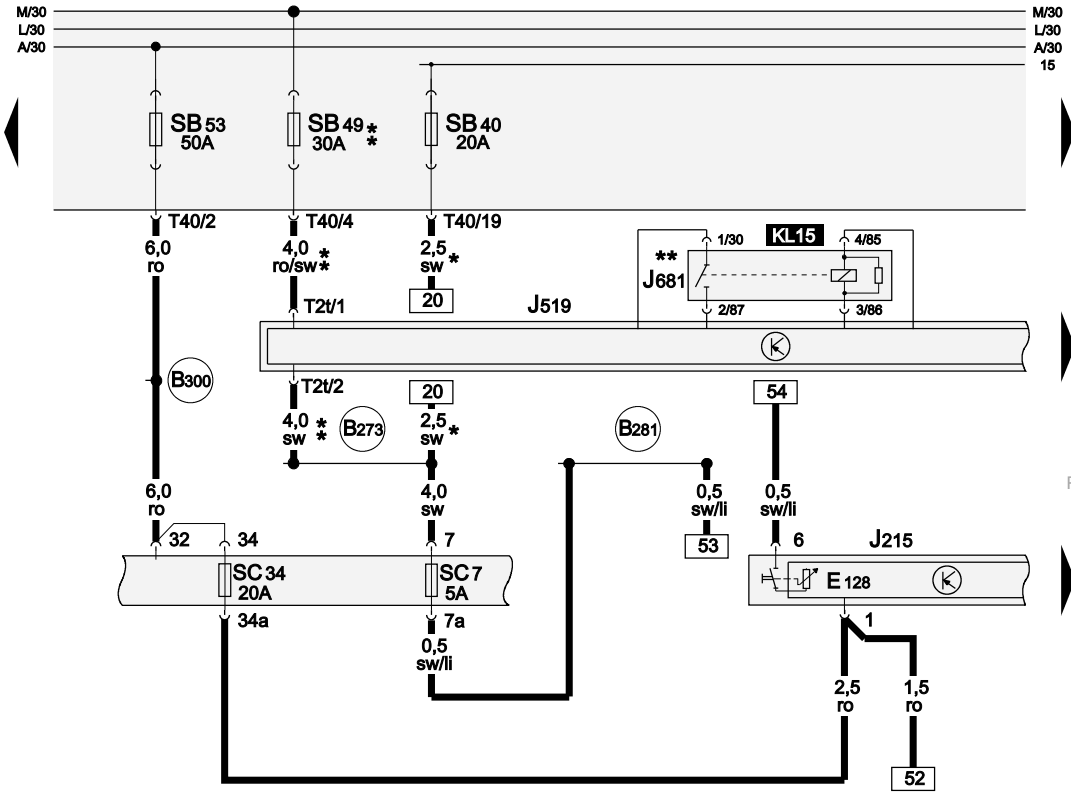
Earth points, earth connections

- 44 Earth point, A pillar, bottom left
- 366 Earth connection -1-, in main wiring harness
- 368 Earth connection -3-, in main wiring harness
- 377 Earth connection -12-, in main wiring harness
- 655 Earth point, on left headlight

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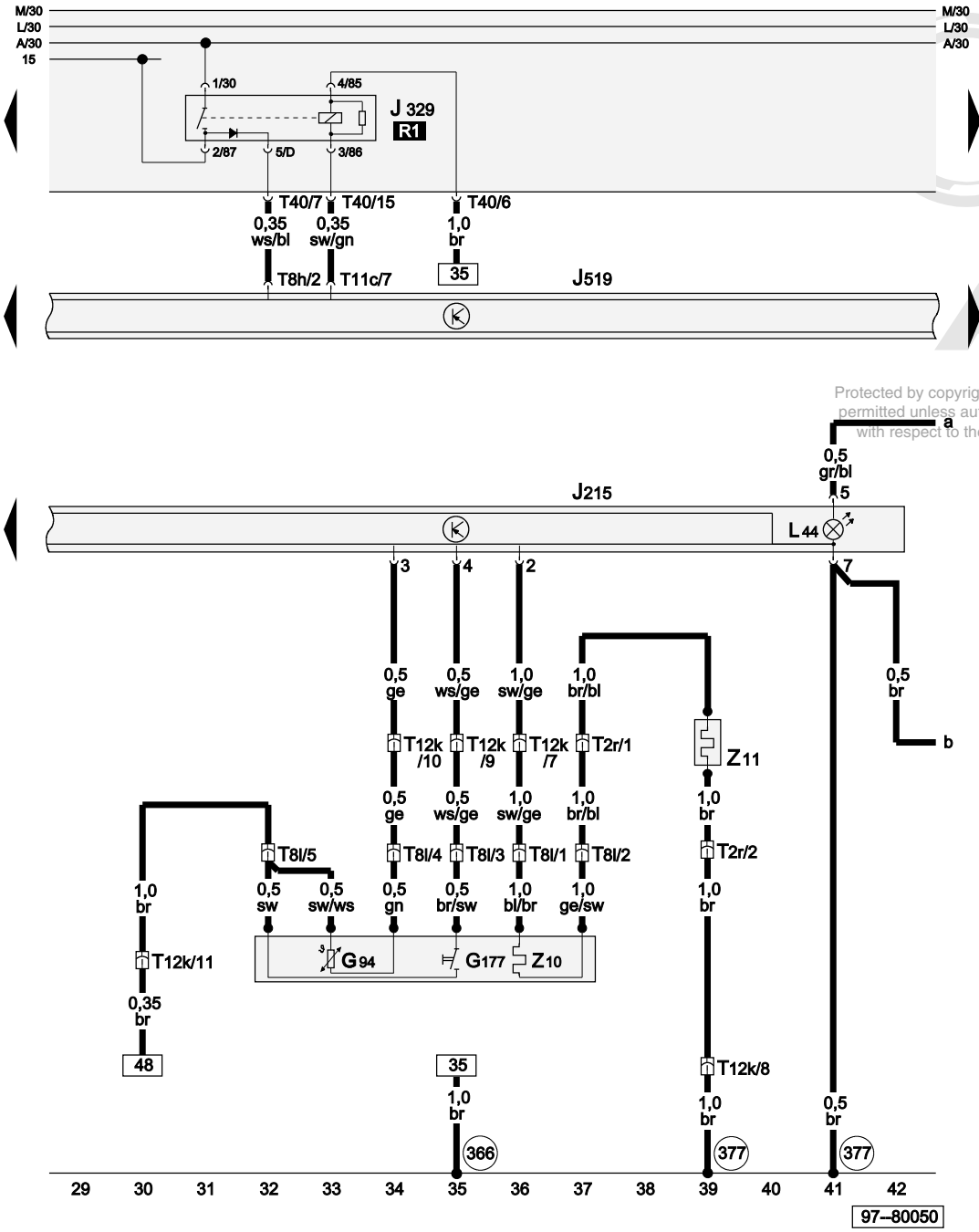


Fuses on fuse box, heated rear left seat control unit

E128	Heated rear left seat switch with regulator
J215	Heated rear left seat control unit
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse box
SB49	Fuse 49 on fuse box
SB53	Fuse 53 on fuse box
SC7	Fuse 7 on fuse box
SC34	Fuse 34 on fuse box
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
B273	Positive (+) connection (15), in main wiring harness
B281	Positive (+) connection 5 (15a), in main wiring harness
B300	Positive (+) connection 4 (30), in main wiring harness
*	Only applies to models with battery in engine compartment
**	Only applies to models with battery in luggage compartment

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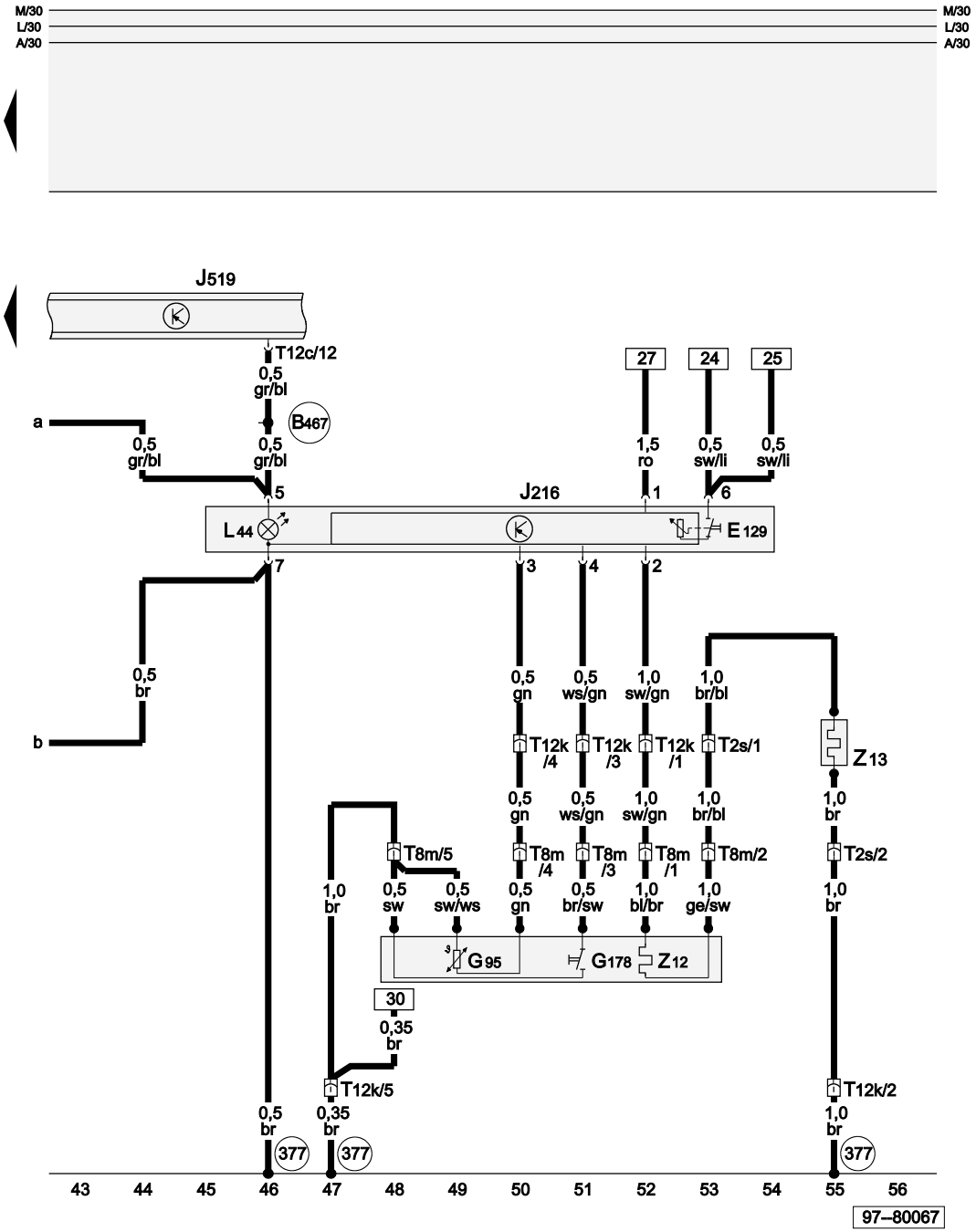


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Heated rear left seat control unit, rear left seat temperature sensor

G94	Rear left seat temperature sensor
G177	Rear seat occupied sensor, driver's side
J215	Heated rear left seat control unit
J329	Terminal 15 voltage supply relay
J519	Onboard power supply control unit
L44	Light bulb in seat heating switch
T2r	2-pin connector, black, under rear seat bench
T8l	8-pin connector, black, on rear left seat
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T12k	12-pin connector, black, under rear seat bench
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
Z10	Heated rear left seat
Z11	Heated rear left seat backrest
366	Earth connection 1, in main wiring harness
377	Earth connection 12, in main wiring harness

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Heated rear right seat control unit, rear right seat temperature sensor

E129	Heated rear right seat switch with regulator
G95	Rear right seat temperature sensor
G178	Rear seat occupied sensor, front passenger's side
J216	Heated rear right seat control unit
J519	Onboard power supply control unit
L44	Seat heating switch light bulb
T2s	2-pin connector, black, under rear seat bench
T8m	8-pin connector, black, on rear right seat
T12c	12-pin connector, black (connector B)
T12k	12-pin connector, black, under rear seat bench
Z12	Heated rear right seat
Z13	Heated rear seat backrest, right
377	Earth connection 12, in main wiring harness
B467	Connection 3, in main wiring harness

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Lumbar support adjustment (models with manual seat adjustment)

From model year 2005

Notes:

Information on

- Position of relays and fuses
- Multi-pin connectors
- Control units and relays
- Earth connections

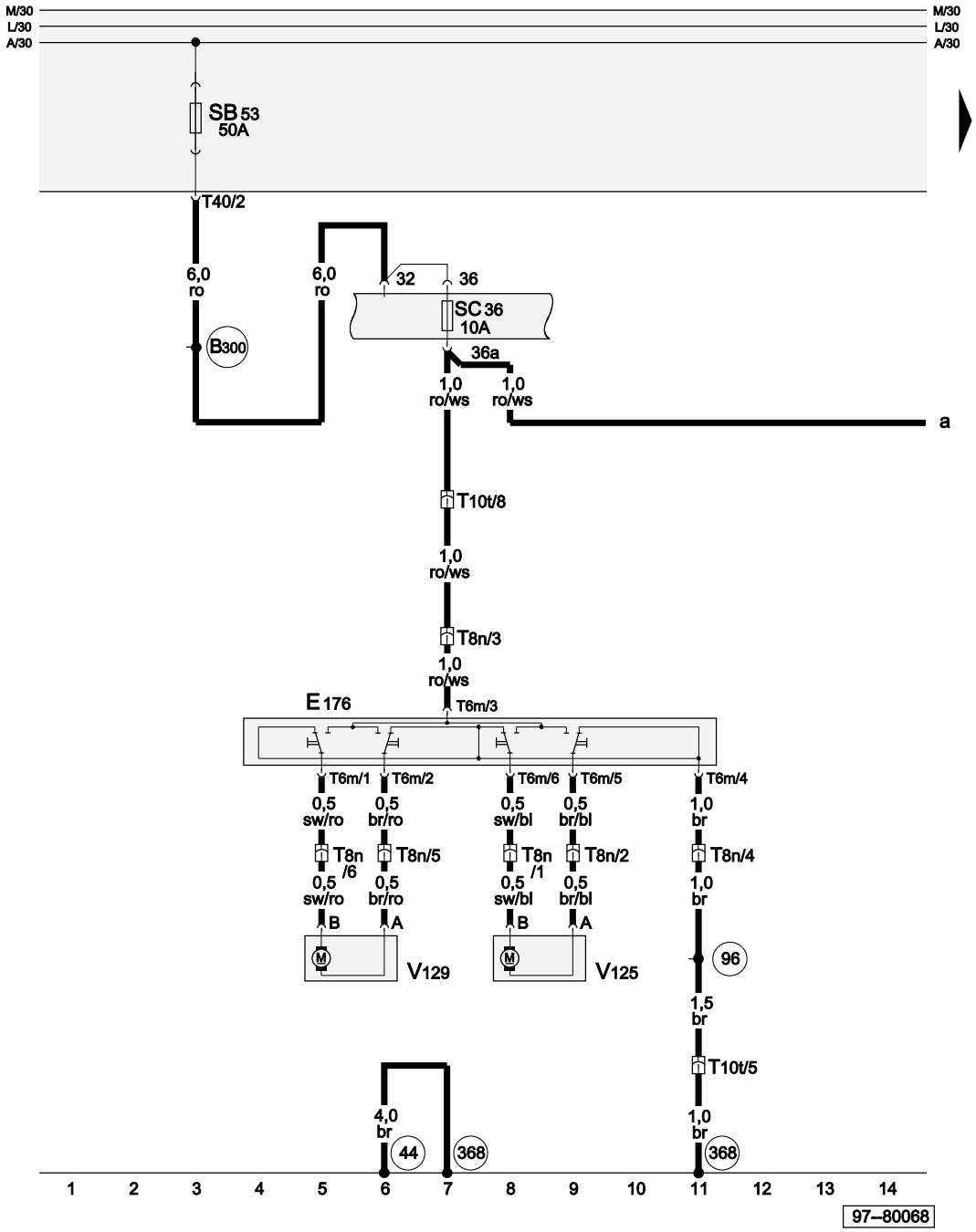
⇒ Overview of Fitting Locations

Information on

- Fault Finding Programmes

⇒ Guided Fault Finding

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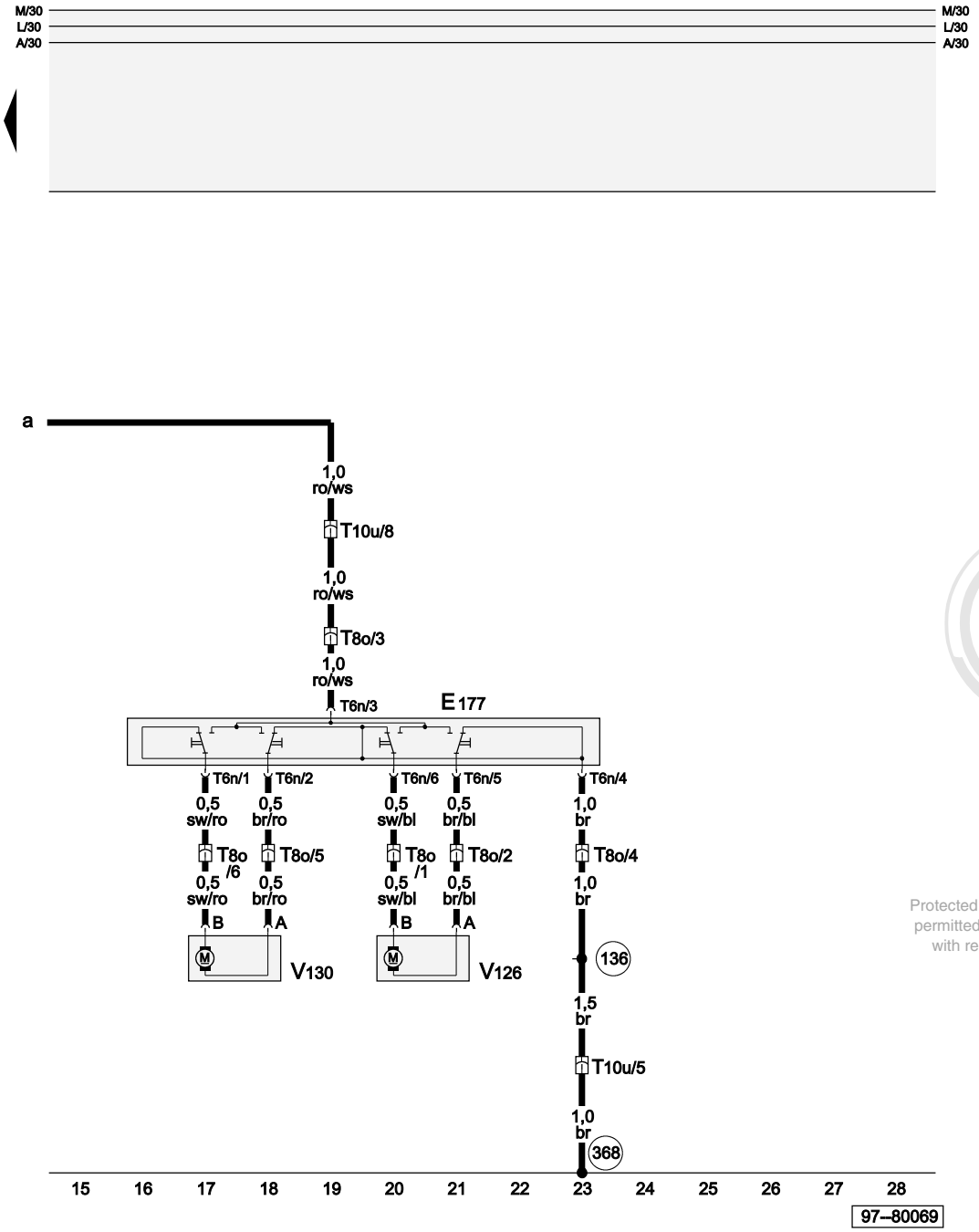


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Lumbar support adjustment (driver's seat)

E176	Lumbar support adjustment switch, driver's seat
SB53	Fuse 53 on fuse box
SC36	Fuse 36 on fuse box
T6m	6-pin connector, black, on lumbar support adjustment switch, driver's seat
T8n	8-pin connector, black, under driver's seat
T10t	10-pin connector, black, under driver's seat
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
V125	Lumbar support longitudinal adjustment motor, driver's seat
V129	Lumbar support height adjustment motor, driver's seat
44	Earth point, A pillar, bottom left
96	Earth connection 1, in seat heating wiring harness
368	Earth connection 3, in main wiring harness
B300	Positive (+) connection 4 (30), in main wiring harness

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Lumbar support adjustment (front passenger's seat)

E177	Lumbar support adjustment switch, front passenger's seat
T6n	6-pin connector, black, on lumbar support adjustment switch, front passenger's seat
T8o	8-pin connector, black, under front passenger's seat
T10u	10-pin connector, black, under front passenger's seat
V126	Lumbar support longitudinal adjustment motor, front passenger's seat
V130	Lumbar support height adjustment motor, front passenger's seat
(136)	Earth connection 2, in seat heating wiring harness
(368)	Earth connection 3, in main wiring harness

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Preparation for mobile telephone

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

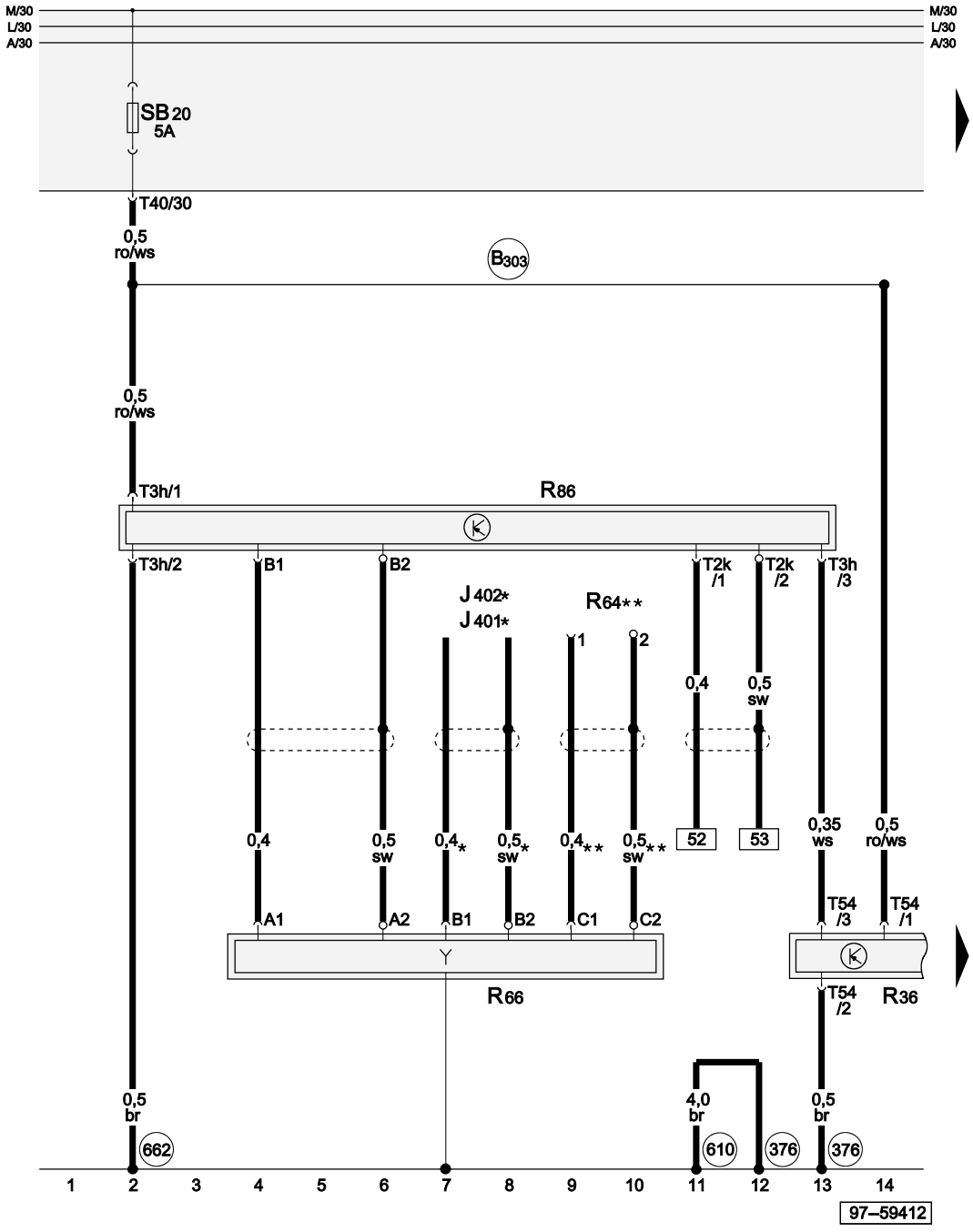
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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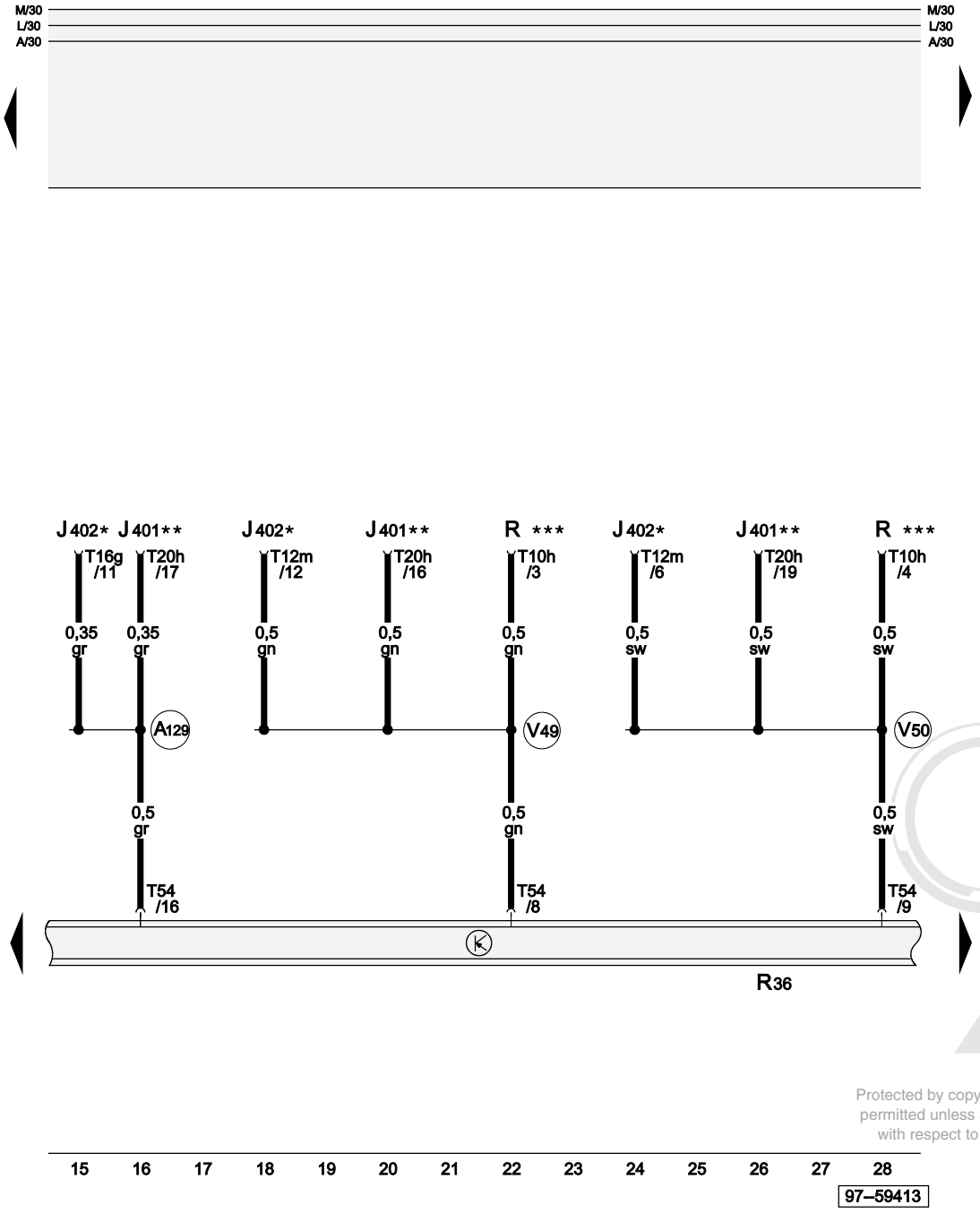
Telephone transmitter and receiver unit, telephone / navigation / auxiliary heater aerial

J401	Navigation system with CD drive control unit
J402	Navigation operating electronics control unit
R36	Telephone transmitter and receiver unit
R64	Remote control receiver for auxiliary heating
R66	Telephone, navigation system and auxiliary heater aerial
R86	Aerial amplifier for mobile telephone
SB20	Fuse 20 on fuse holder
T2k	2-pin connector, yellow (connector C)
T3h	3-pin connector, black, rear left on C-pillar (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T54	54-pin connector, black (connector A)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
662	Earth point, rear left side panel
B303	Positive connection 7 (30), in main wiring harness
*	for models with navigation system only
**	for models with auxiliary heating only

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Audi

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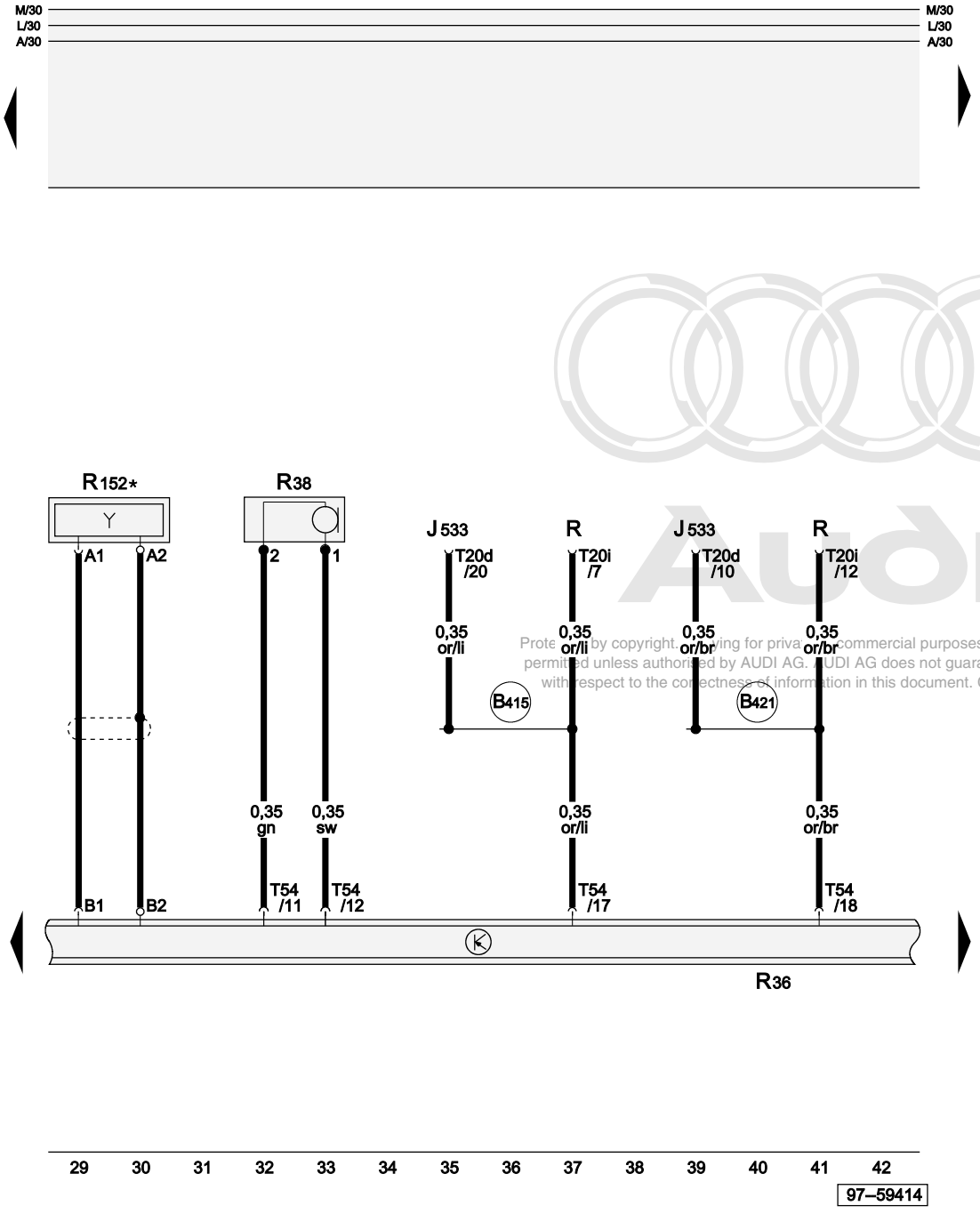


Muting

J401	Navigation system with CD drive control unit
J402	Navigation operating electronics control unit
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T20h	20-pin connector, black (connector C)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with radio navigation system RNS-E only
**	for models with navigation system NS-LOW only
***	for models with radio only

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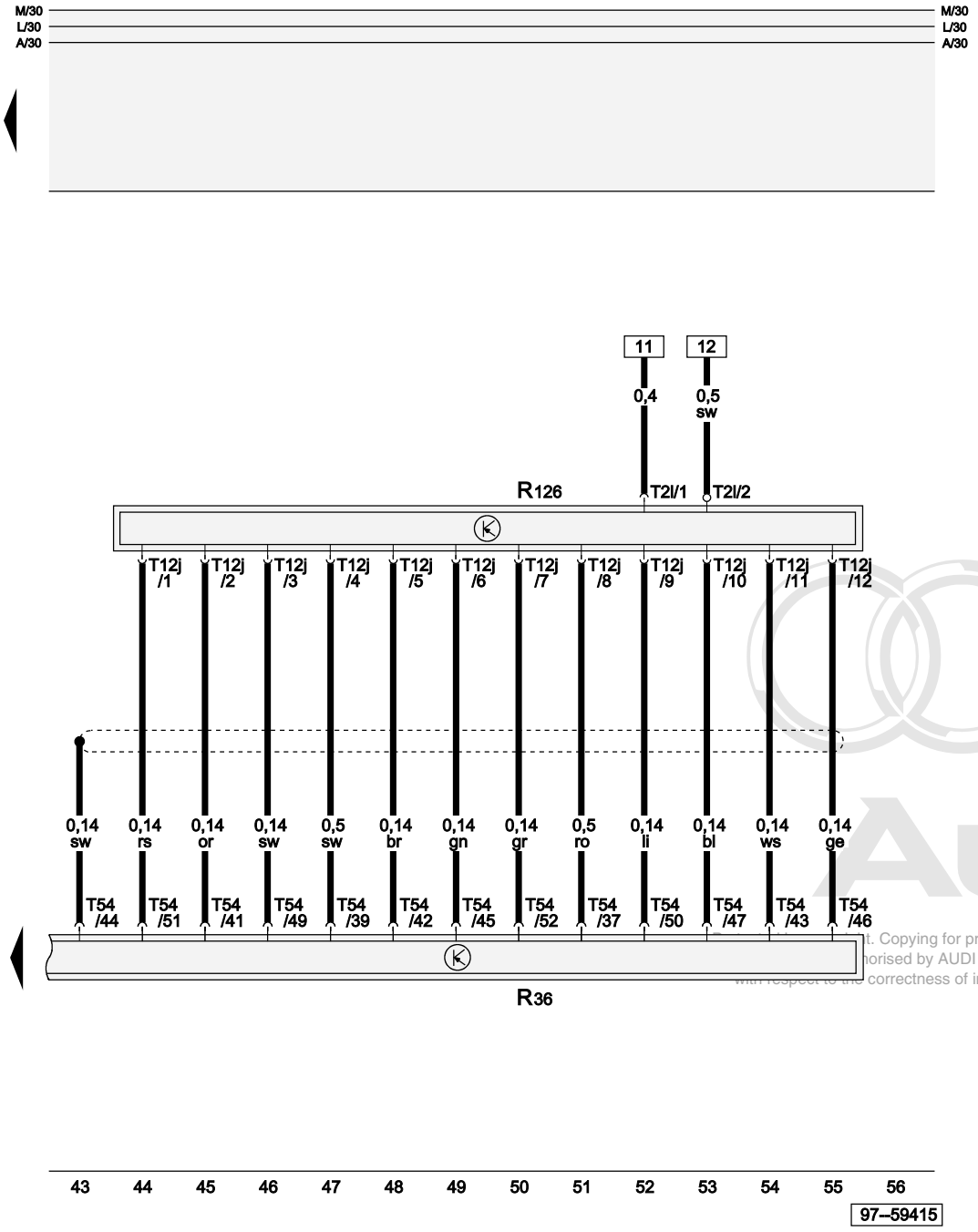


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Telephone microphone

J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
R38	Telephone microphone
R152	Aerial for Bluetooth
T20d	20-pin connector, yellow (connector A)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	for models with aerial for Bluetooth only

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Telephone bracket

R36	Telephone transmitter and receiver unit
R126	Telephone bracket
T2l	2-pin connector, yellow (connector B)
T12j	12-pin connector, brown (connector A)
T54	54-pin connector, black (connector A)

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Airbags for driver and front passenger with belt tensioners and side airbag (3-door models)

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

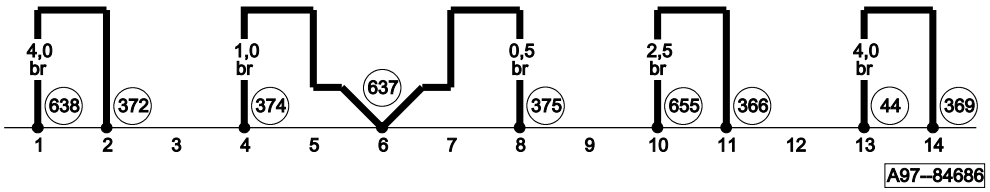
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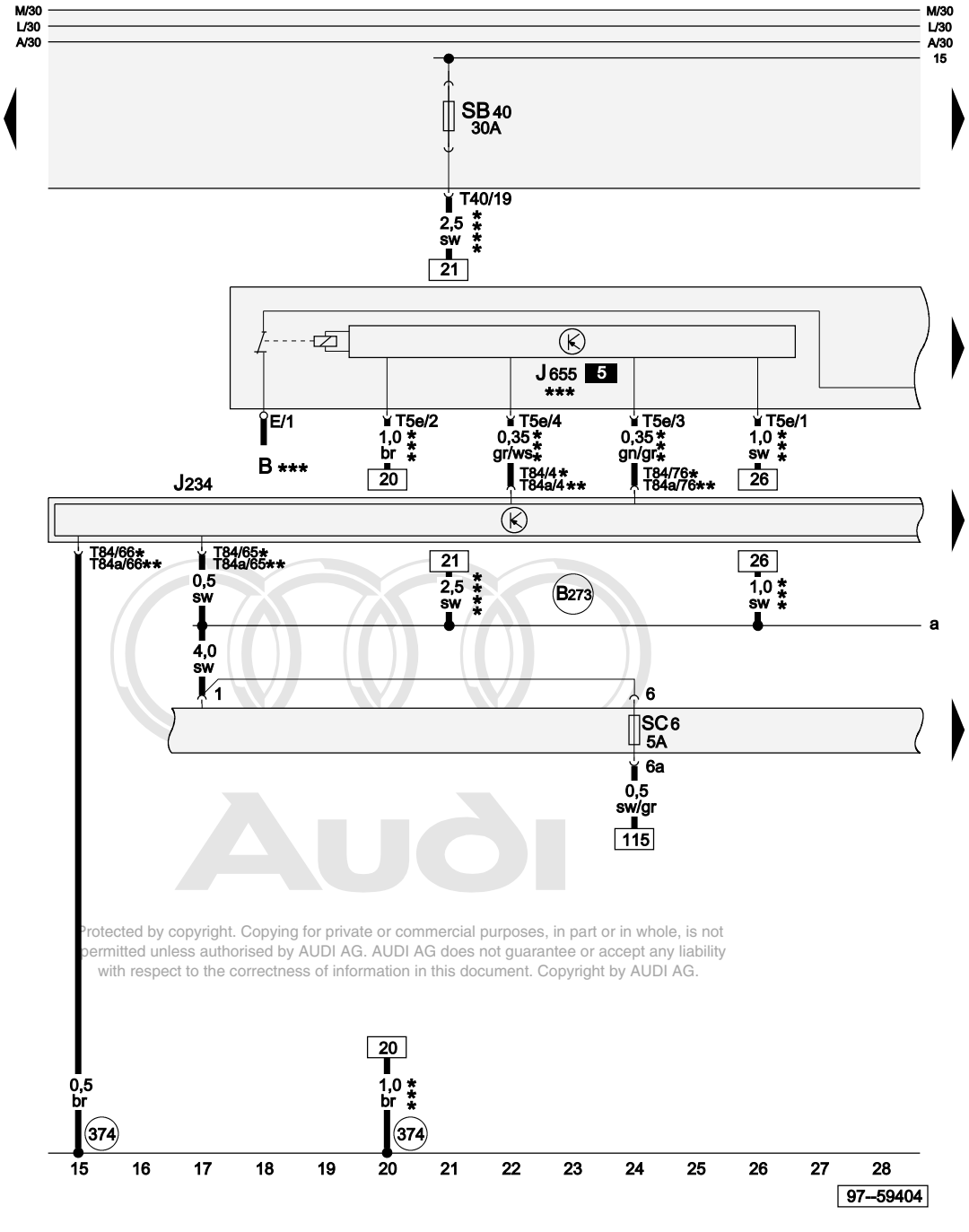
Earth connections, earth points

- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 374 Earth connection 9, in main wiring harness
- 375 Earth connection 10, in main wiring harness
- 637 Earth point, airbag control unit
- 638 Earth point, right A-pillar
- 655 Earth point, on left headlight

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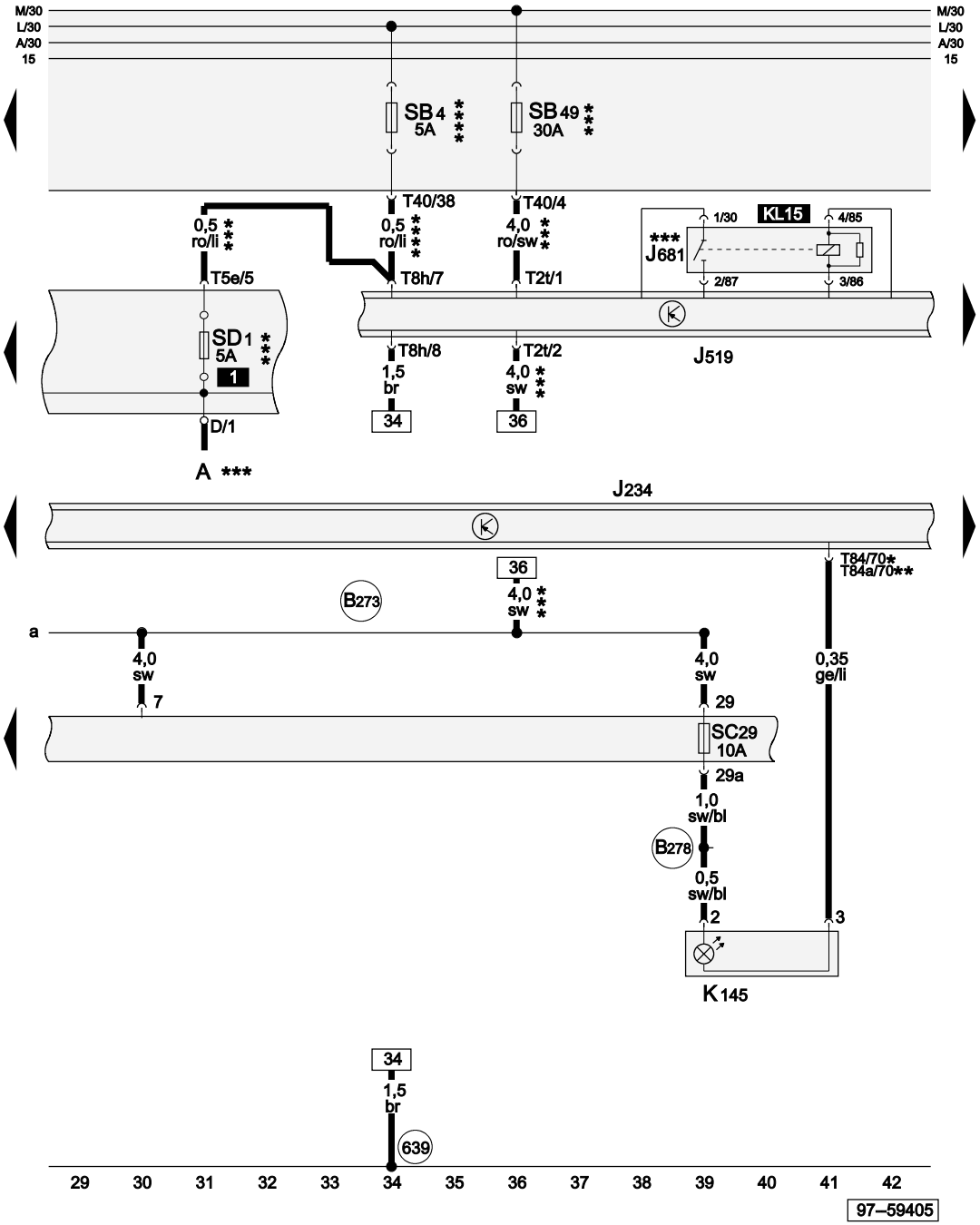


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Fuse on fuse holder, battery cut-off relay

B	Starter
J234	Airbag control unit
J655	Battery cut-off relay
SB40	Fuse 40 on fuse holder
SC6	Fuse 6 on fuse holder
T5e	5-pin connector, yellow, on main fuse box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
374	Earth connection 9, in main wiring harness
B273	Positive connection (15), in main wiring harness
*	for models with curtain airbag (connector locking blue) only
**	for models without curtain airbag (connector locking green) only
***	for models with battery in luggage compartment only
****	for models with battery in engine compartment only

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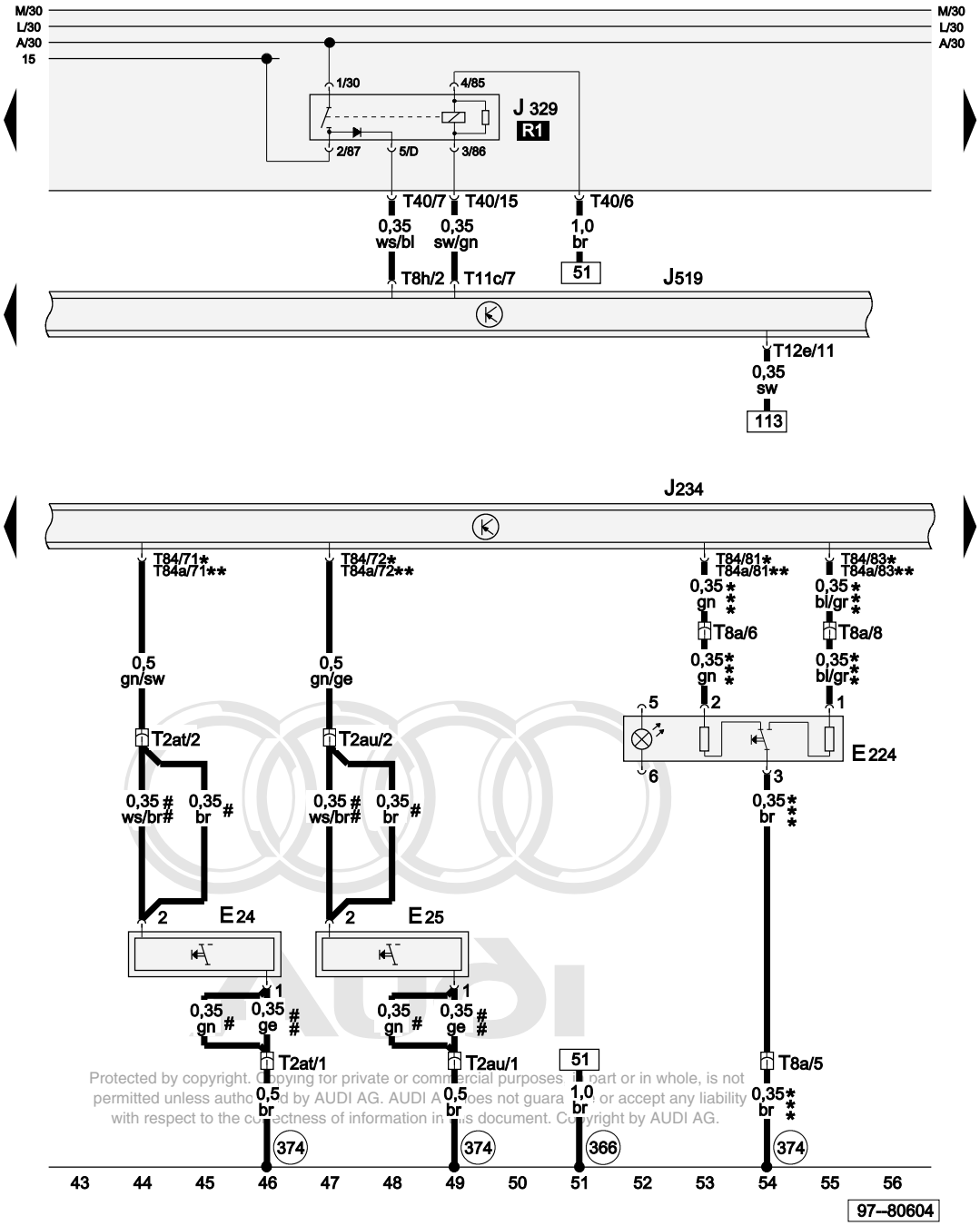


Terminal 15 voltage supply relay 2, front passenger side airbag deactivated warning lamp

A	Battery
J234	Airbag control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
K145	Front passenger side airbag deactivated warning lamp
SB4	Fuse 4 on fuse holder
SB49	Fuse 49 on fuse holder
SC29	Fuse 29 on fuse holder
SD1	Fuse 1 on fuse holder
T2t	2-pin connector, black (connector L)
T5e	5-pin connector, yellow, on main fuse box
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
639	Earth point, left A-pillar
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	for models with curtain airbag (connector locking blue) only
**	for models without curtain airbag (connector locking green) only
***	for models with battery in luggage compartment only
****	for models with battery in engine compartment only

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Belt switch, terminal 15 voltage supply relay

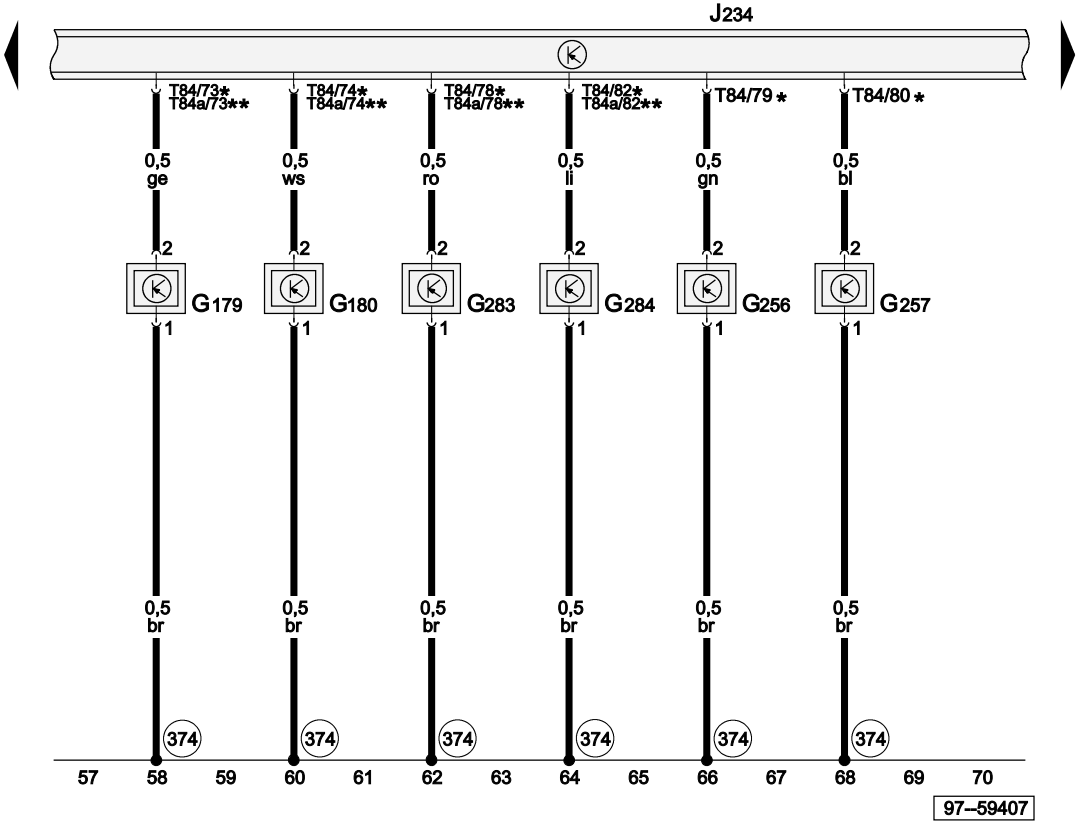
E24	Driver side belt switch
E25	Front passenger side belt switch
E224	Key operated switch to deactivate front passenger side airbag
J234	Airbag control unit
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
T2at	2-pin connector, black, under driver seat
T2au	2-pin connector, black, under front passenger seat
T8a	8-connector, black, near glove compartment
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T12e	12-pin connector, black (connector G)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
366	Earth connection 1, in main wiring harness
374	Earth connection 9, in main wiring harness
*	for models with curtain airbag (connector locking blue) only
**	for models without curtain airbag (connector locking green) only
***	for models with key operated switch to deactivate airbag only
#	for models with seat adjustment only
##	for models without seat adjustment only

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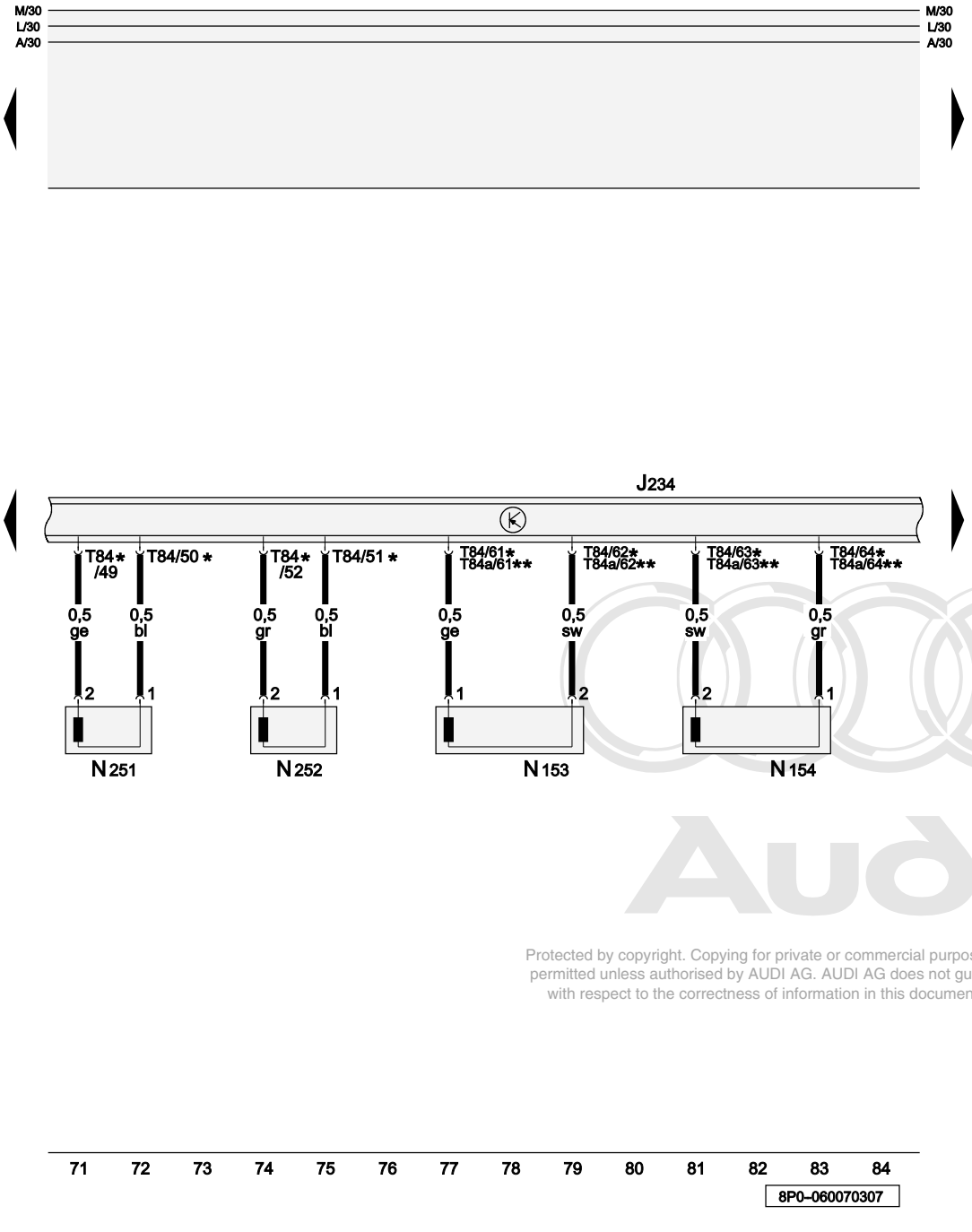
Crash sensors

G179	Side airbag crash sensor on driver side
G180	Side airbag crash sensor on front passenger side
G256	Rear side airbag crash sensor on driver side
G257	Rear side airbag crash sensor on front passenger side
G283	Front airbag crash sensor for driver side
G284	Front airbag crash sensor for front passenger side
J234	Airbag control unit
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
(374)	Earth connection 9, in main wiring harness
*	for models with curtain airbag (connector locking blue) only
**	for models without curtain airbag (connector locking green) only



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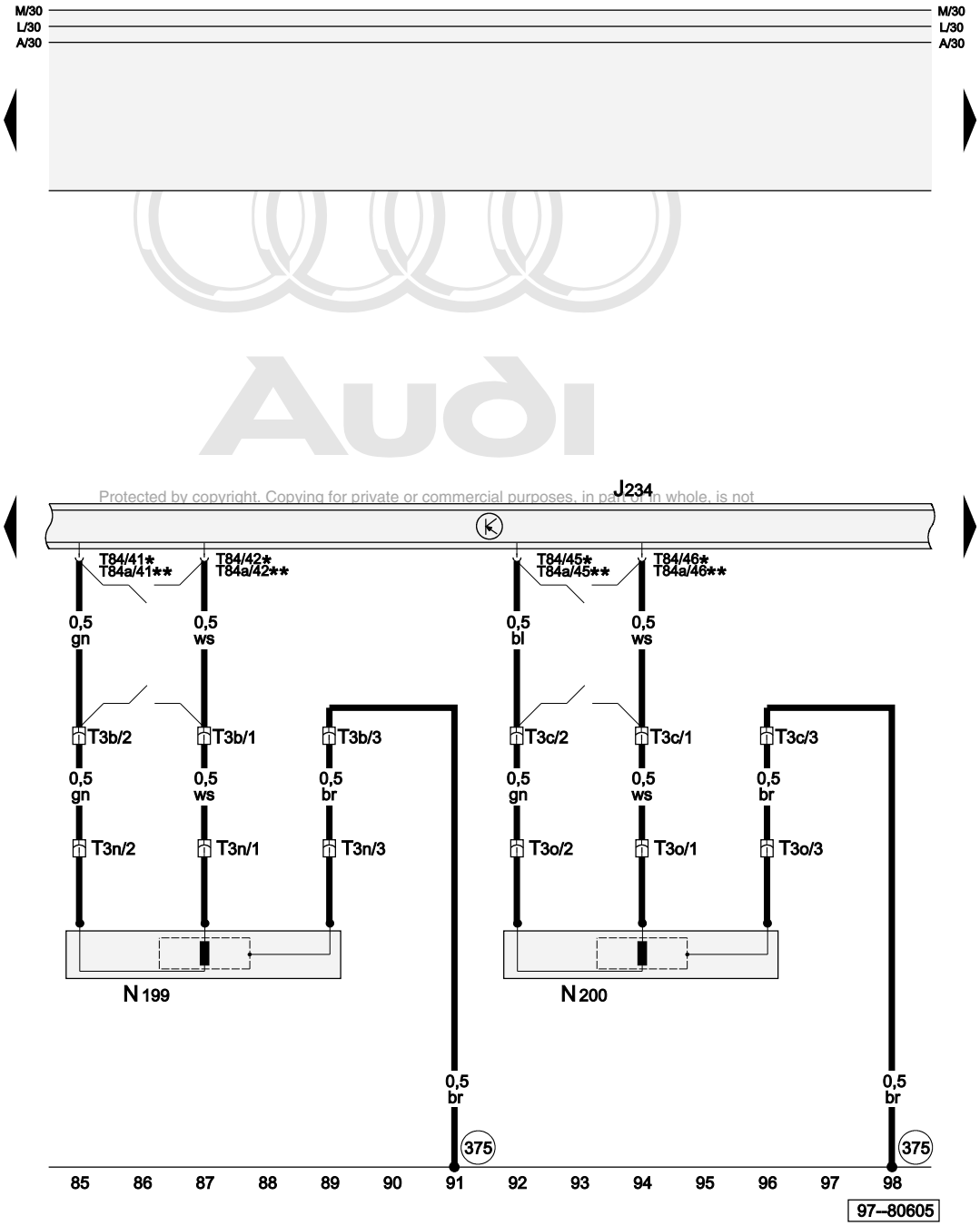


Seat belt tensioner, curtain airbag igniter

J234	Airbag control unit
N153	Driver seat belt tensioner igniter 1
N154	Front passenger side seat belt tensioner igniter 1
N251	Driver side curtain airbag igniter
N252	Front passenger side curtain airbag igniter
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
*	for models with curtain airbag (connector locking blue) only
**	for models without curtain airbag (connector locking green) only

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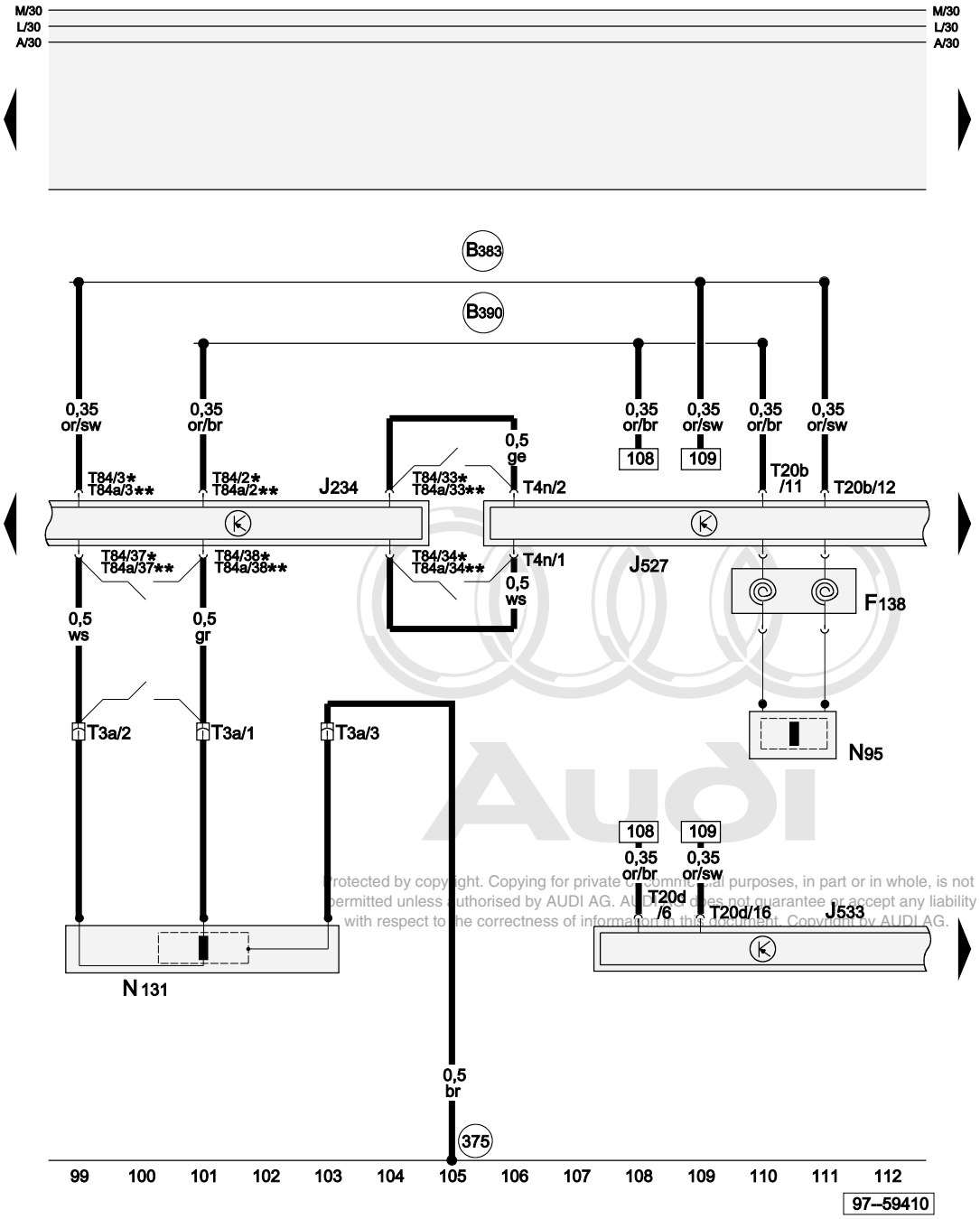
Side airbag igniter on driver side, side airbag igniter on front passenger side

J234	Airbag control unit
N199	Side airbag igniter on driver side
N200	Side airbag igniter on front passenger side
T3b	3-pin connector, yellow, near driver seat
T3c	3-pin connector, yellow, near front passenger seat
T3n	3-pin connector, in driver seat
T3o	3-pin connector, in front passenger seat
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
375	Earth connection 10, in main wiring harness
*	for models with curtain airbag (connector locking blue) only
**	for models without curtain airbag (connector locking green) only

<fo:exter short circuit bridge becomes effective when connector is unplugged

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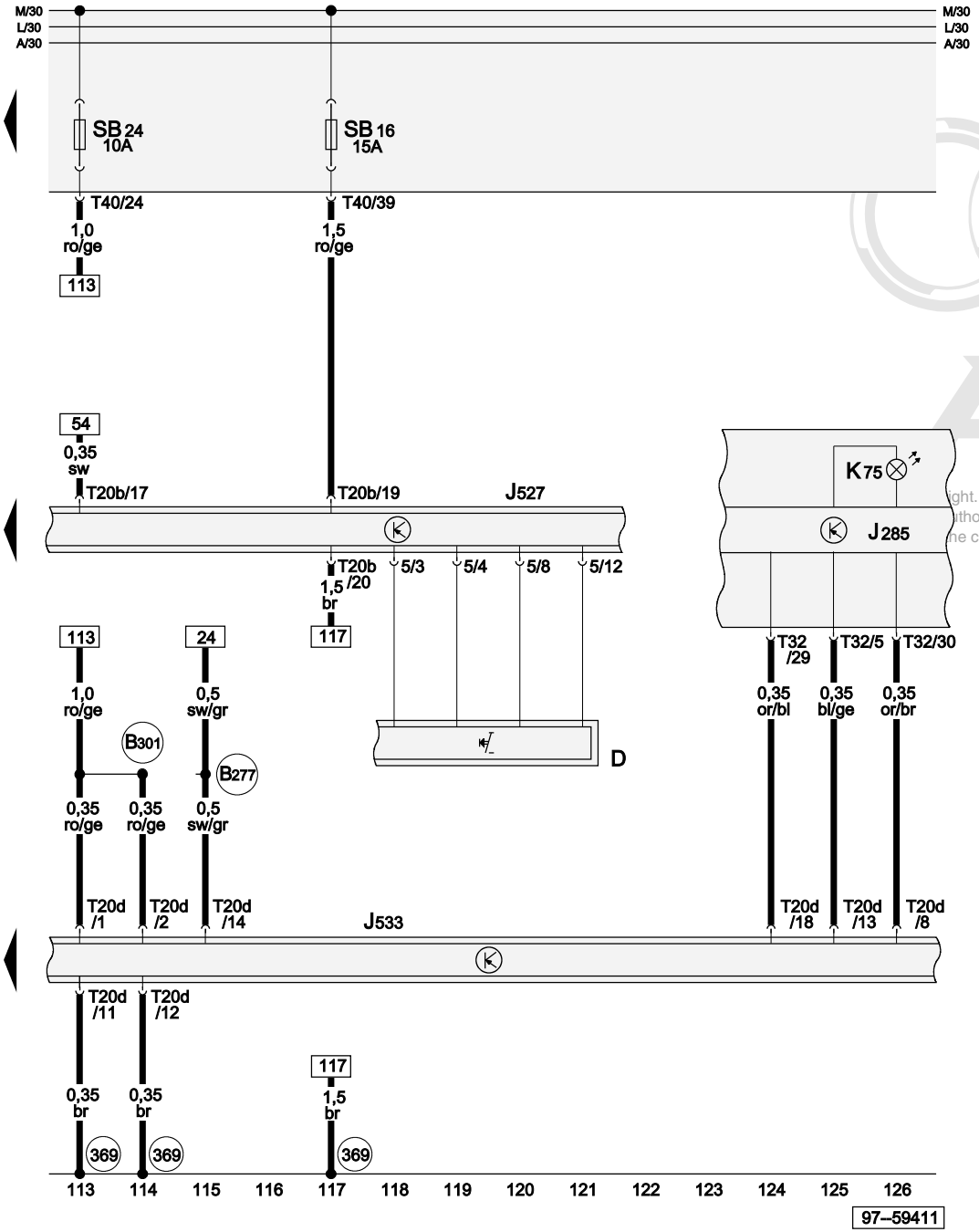
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Driver side airbag igniter, front passenger side airbag igniter 1

F138	Airbag coil connector and return spring with slip ring
J234	Airbag control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
N95	Driver side airbag igniter
N131	Front passenger side airbag igniter 1
T3a	3-pin connector, yellow, near glove compartment
T4n	4-pin connector, yellow (connector B)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
375	Earth connection 10, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	for models with curtain airbag (connector locking blue) only
**	for models without curtain airbag (connector locking green) only

<fo:external-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/kurzbr_l.png" content-width="20pt" scaling="uniform"/> short circuit bridge becomes effective when connector is unplugged



Control unit in dash panel insert

D	Ignition/starter switch
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K75	Airbag warning lamp
SB16	Fuse 16 on fuse holder
SB24	Fuse 24 on fuse holder
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

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Navigation system "NS LOW"

From model year 2005

Notes:

Information on

- Position of relays and fuses
- Multi-pin connectors
- Control units and relays
- Earth connections

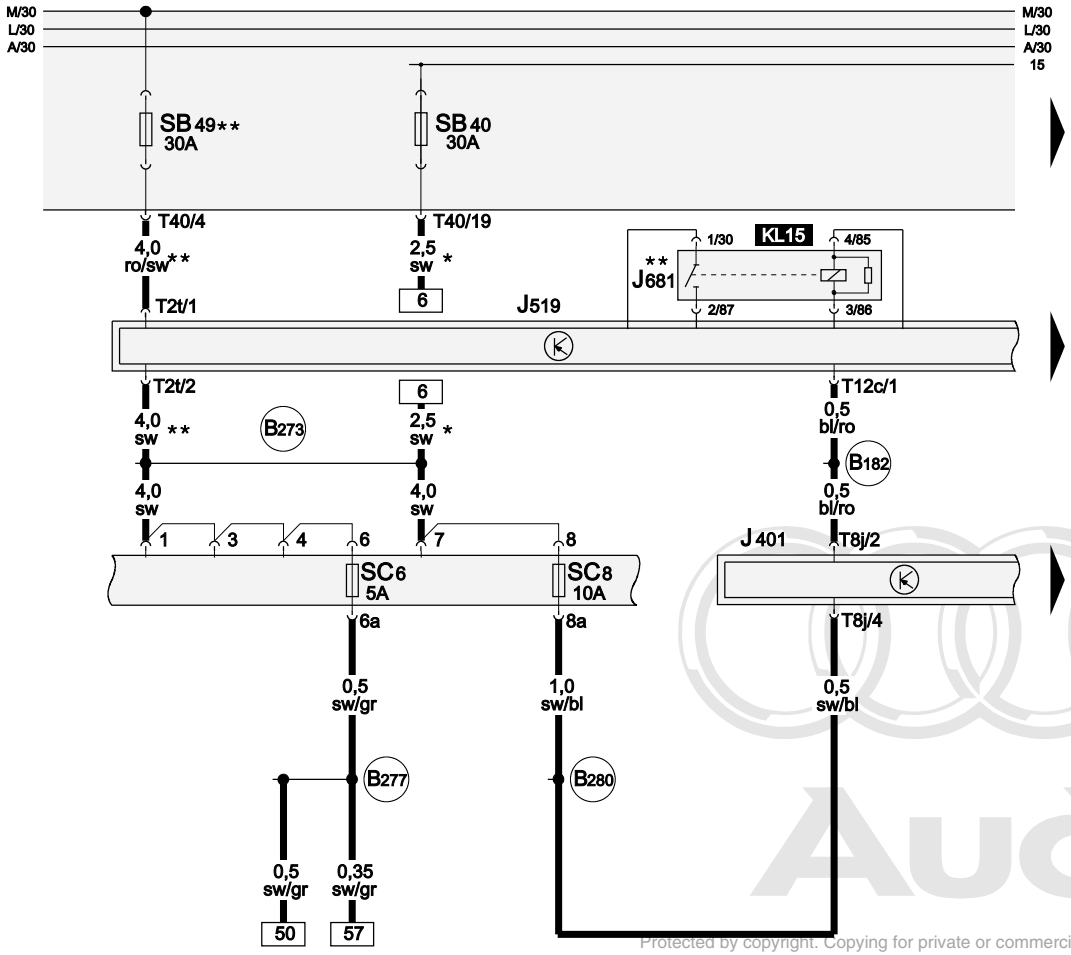
⇒ Overview of Fitting Locations

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⇒ Guided Fault Finding

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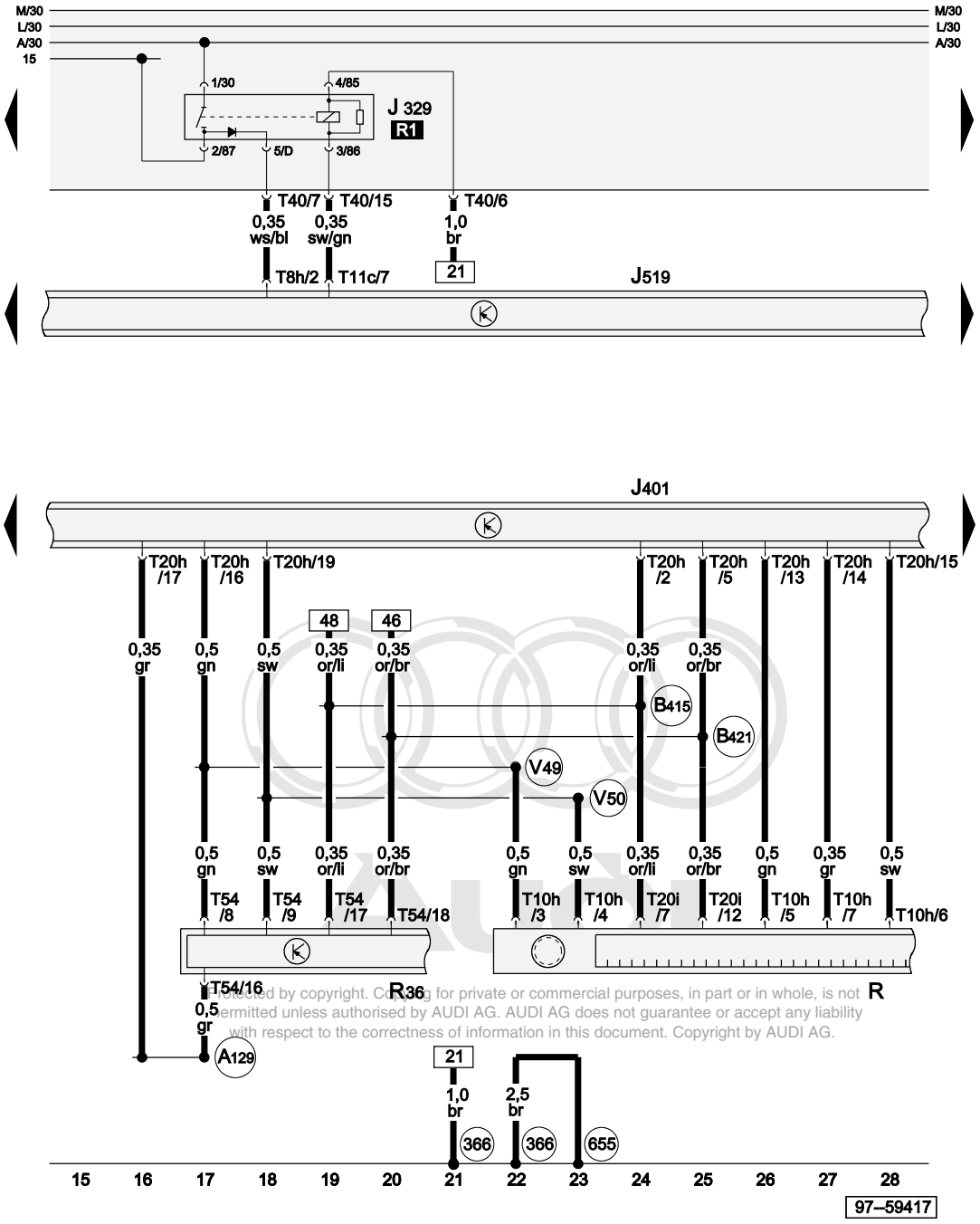


Fuses, navigation system with CD drive control unit, onboard power supply control unit

J401	Navigation system with CD drive control unit
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse box
SB49	Fuse 49 on fuse box
SC6	Fuse 6 on fuse box
SC8	Fuse 8 on fuse box
T2t	2-pin connector, black (connector L)
T8j	8-pin connector, black
T12c	12-pin connector, black (connector B)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
B182	Connection (RF (reversing light)), in interior wiring harness
B273	Positive (+) connection (15), in main wiring harness
B277	Positive (+) connection 1 (15a), in main wiring harness
B280	Positive (+) connection 4 (15a), in main wiring harness
*	Only applies to models with battery in engine compartment
**	Only applies to models with battery in luggage compartment

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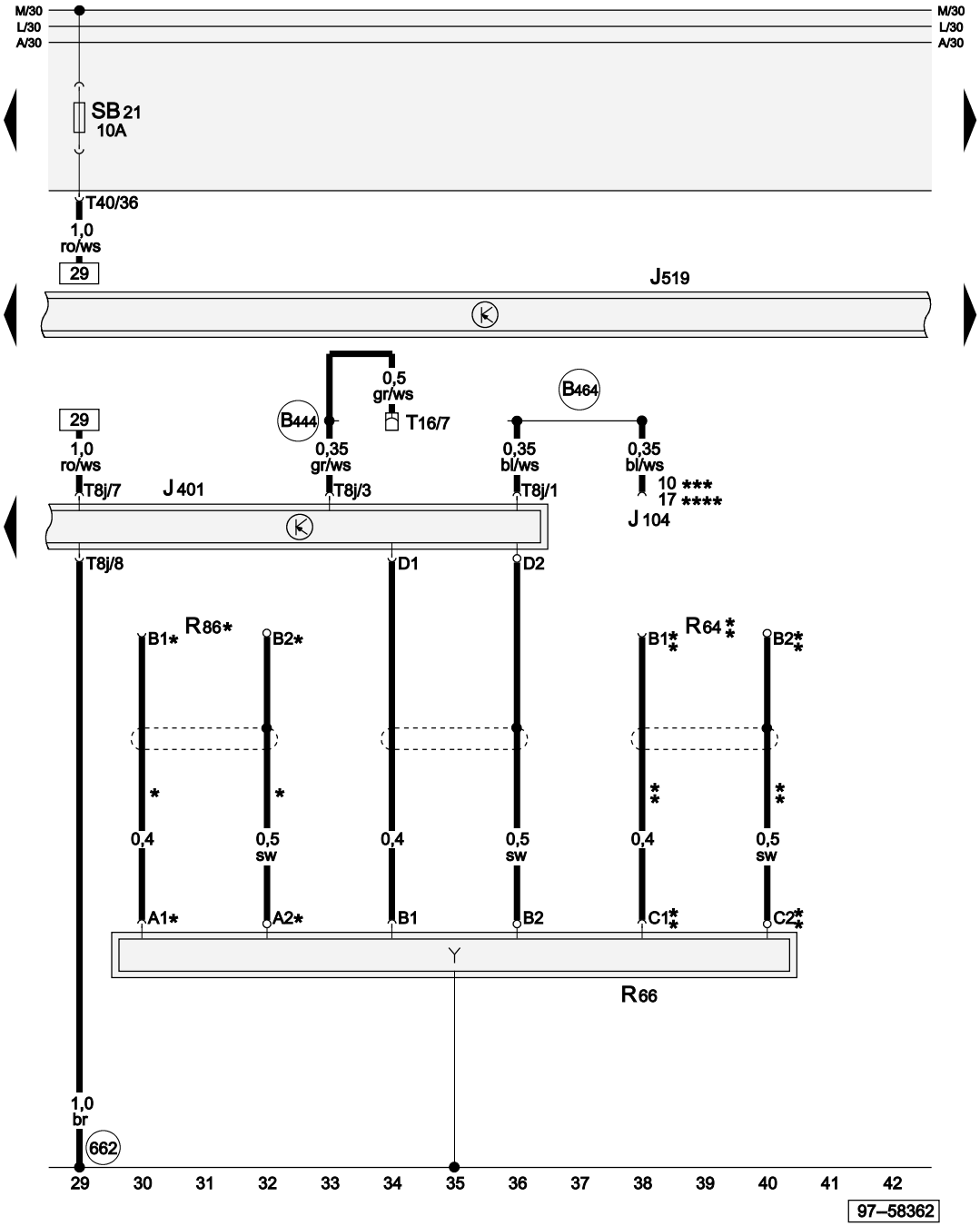


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Muting, infotainment CAN bus

J329	Terminal 15 voltage supply relay
J401	Navigation system with CD drive control unit
J519	Onboard power supply control unit
R	Radio
R36	Telephone transmitter and receiver unit
T8h	8-pin connector, black (connector F)
T10h	10-pin connector, red
T11c	11-pin connector, brown (connector D)
T20h	20-pin connector, black
T20i	20-pin connector, black
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
T54	54-pin connector, black
366	Earth connection 1, in main wiring harness
655	Earth point on left headlight
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (low frequency, NF +), in communication systems wiring harness
V50	Connection (low frequency, NF -), in communication systems wiring harness

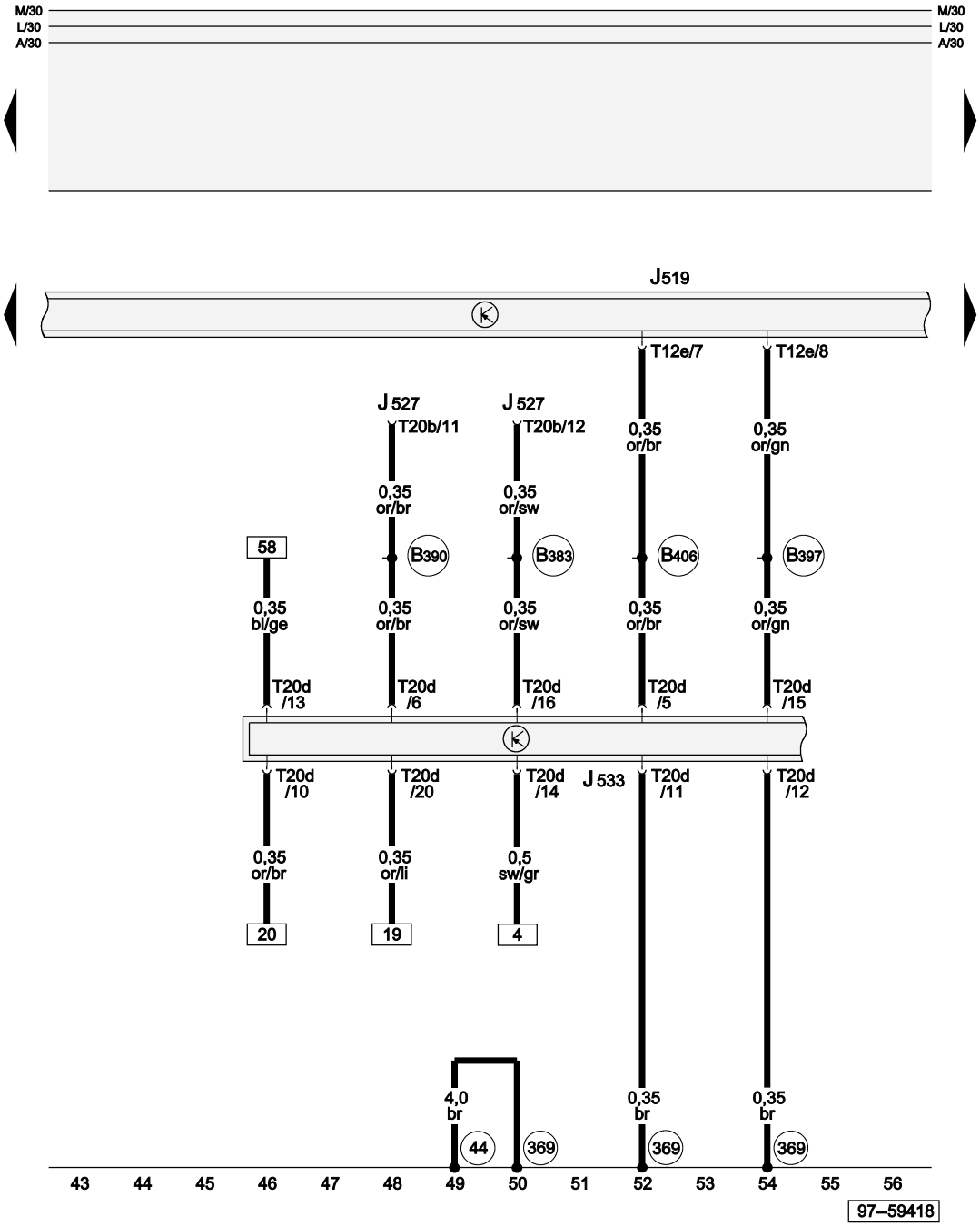


Telephone/navigation (GPS)/auxiliary heater aerial

J104	ABS control unit
J401	Navigation system with CD drive control unit
J519	Onboard power supply control unit
R64	Auxiliary heating radio controlled receiver
R66	Telephone, navigation (GPS), auxiliary heater aerial
R86	Aerial amplifier, mobile telephone
SB21	Fuse 21 on fuse box
T8j	8-pin connector, black
T16	16-pin connector, black, dash panel, driver's side, bottom left (diagnostic connector)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
662	Earth point, rear left side panel
B444	Connection 1 (diagnosis), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	Only applies to models with mobile telephone/provision for mobile telephone
**	Only applies to models with auxiliary heater
***	Only applies to models with anti-lock brake system (ABS) MK60
****	Only applies to models with anti-lock brake system (ABS) MK70

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Data bus diagnostic interface

J519 Onboard power supply control unit
J527 Steering column electronics control unit
J533 Data bus diagnostic interface
T12e 12-pin connector, black (connector G)
T20b 20-pin connector, black (connector A)
T20d 20-pin connector, yellow (connector A)

(44) Earth point, A pillar, bottom left

(369) Earth connection -4-, in main wiring harness

(B383) Connection -1- (drive train CAN bus, high), in main wiring harness

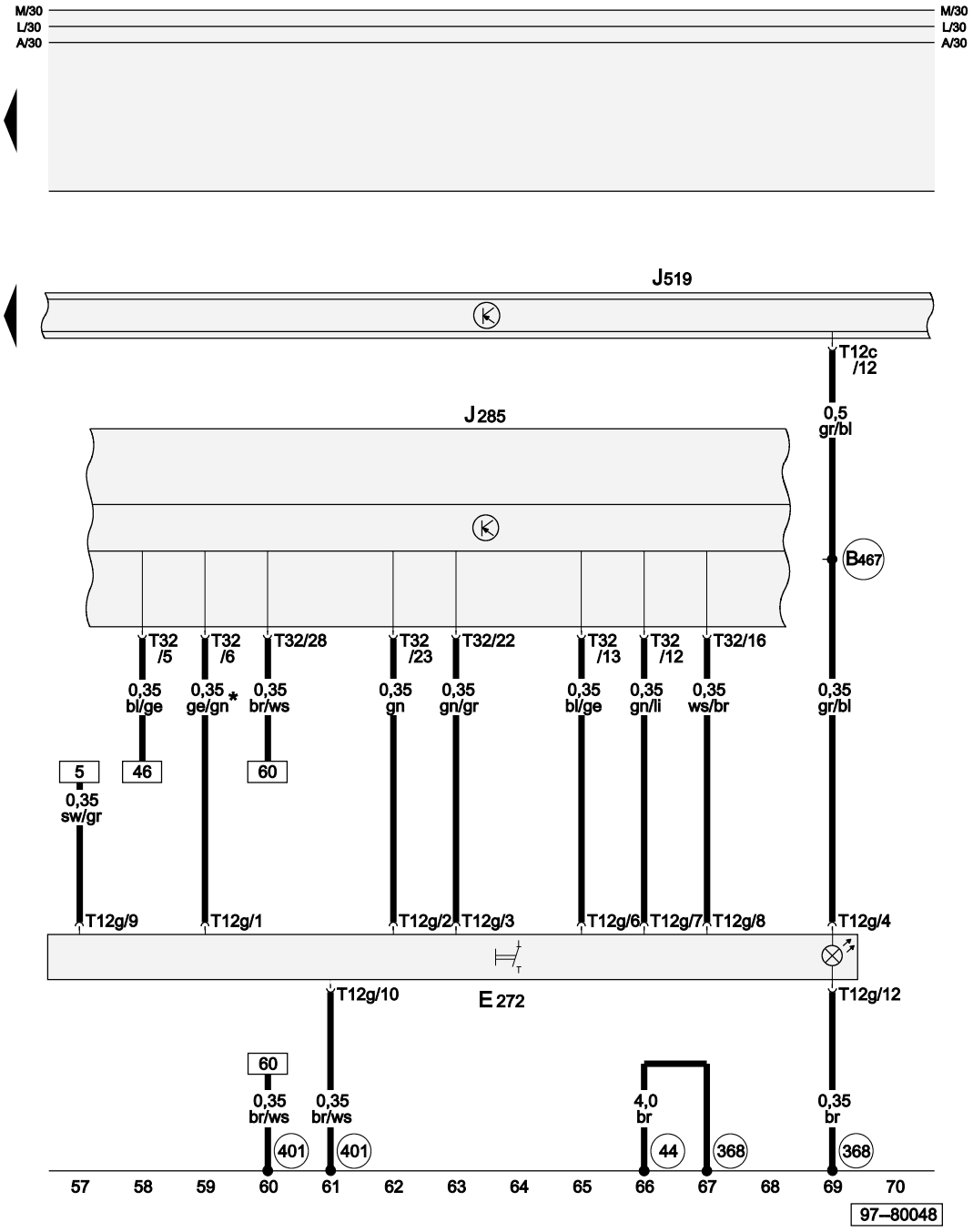
(B390) Connection -1- (drive train CAN bus, low), in main wiring harness

(B397) Connection -1- (convenience CAN bus, high), in main wiring harness

(B406) Connection -1- (convenience CAN bus, low), in main wiring harness

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Function selection switch II, control unit with display in dash panel insert

E272	Function selection switch 2
J285	Control unit in dash panel insert
J519	Onboard power supply control unit
T12c	12-pin connector, black (connector B)
T12g	12-pin connector, brown
T32	32-pin connector, blue (connector A)
44	Earth point, A pillar, bottom left
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B467	Connection 3, in main wiring harness
*	No longer fitted, phased-in modification

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Diagnostic connector

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

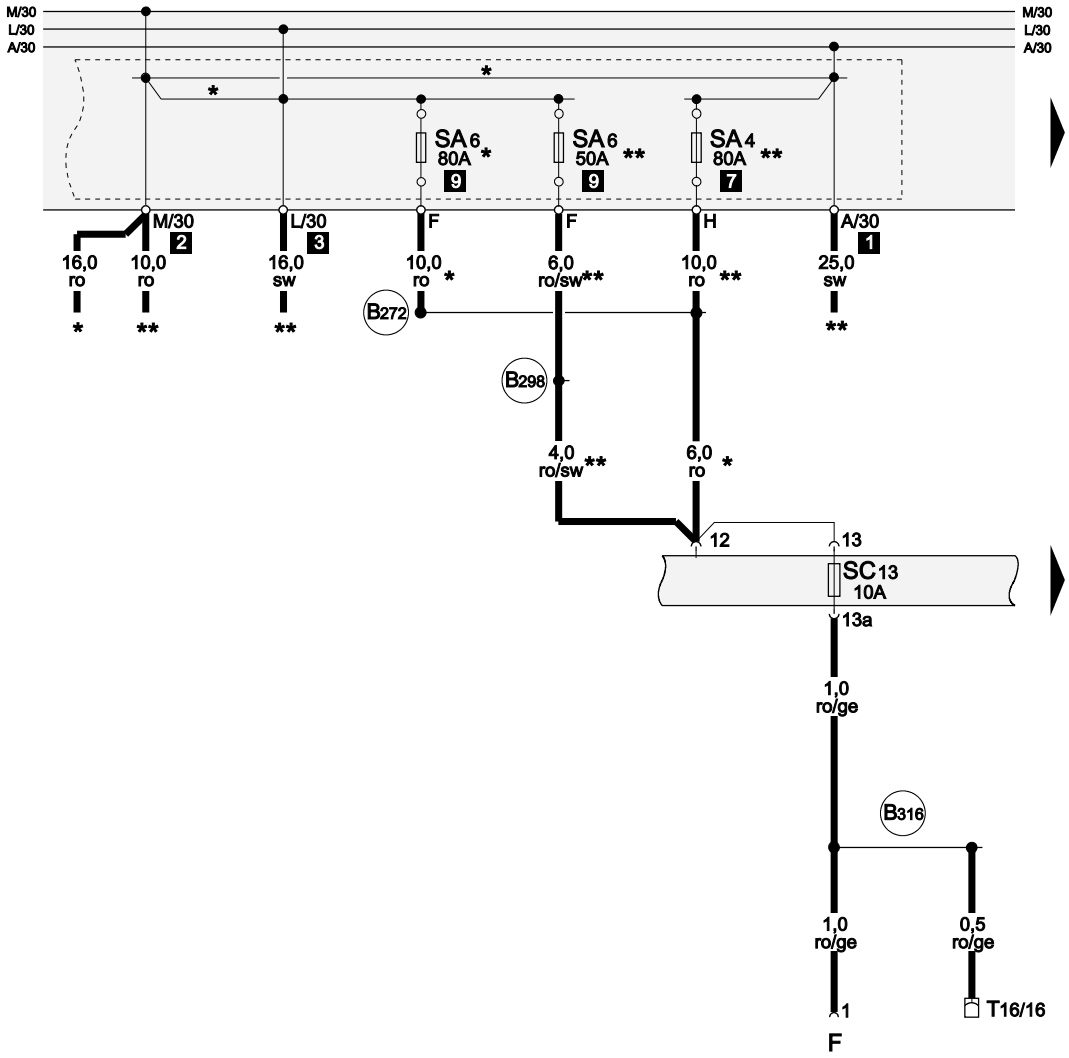
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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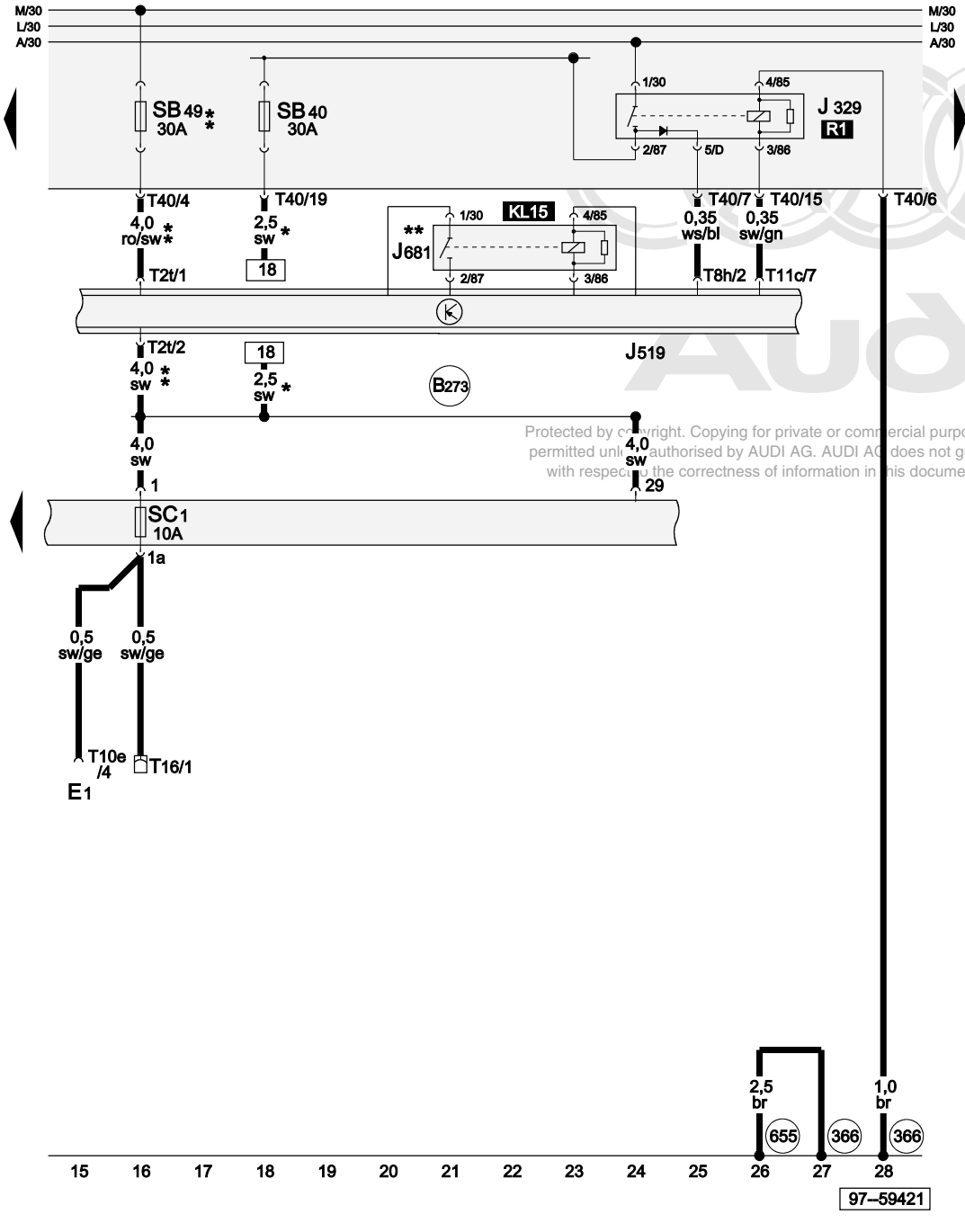


Diagnostic connector, fuses

F	Brake light switch
SA4	Fuse 4 on fuse holder on battery
SA6	Fuse 6 on fuse holder on battery
SC13	Fuse 13 on fuse holder
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
*	⇒ Applicable Current Flow Diagram with battery in engine compartment
**	⇒ Applicable Current Flow Diagram with battery in luggage compartment

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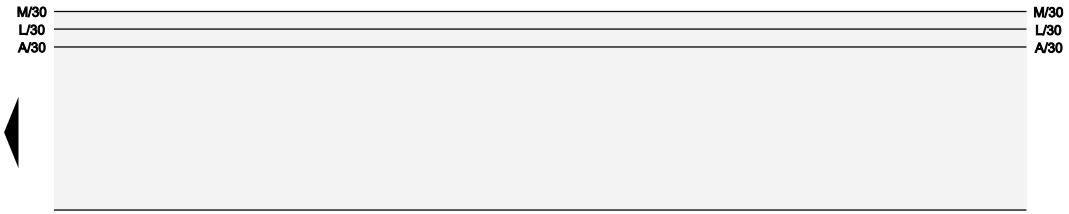


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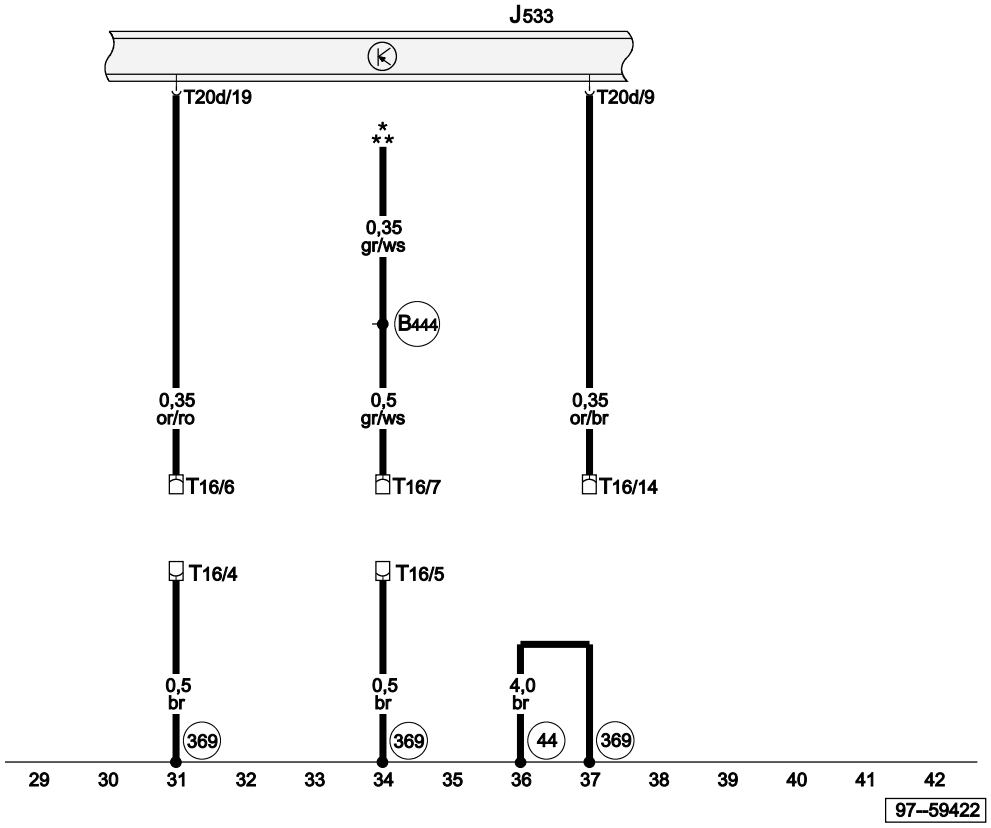
Diagnostic connector, terminal 15 voltage supply relay

E1	Light switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T10e	10-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B273	Positive connection (15), in main wiring harness
*	For models with battery in engine compartment only
**	For models with battery in luggage compartment only



Data bus diagnostic interface, diagnostic connector

J533	Data bus diagnostic interface
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
44	Earth point, lower part of left A-pillar
369	Earth connection -4-, in main wiring harness
B444	Connection -1- (diagnosis), in main wiring harness
*	See applicable Current Flow Diagram: automatic gearbox
**	See applicable engine Current Flow Diagram



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Headlights with gas discharge lamps and automatic headlight range control

From model year 2005

Notes:

Information on

- Position of relays and fuses
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations

Information on

- Fault Finding Programmes

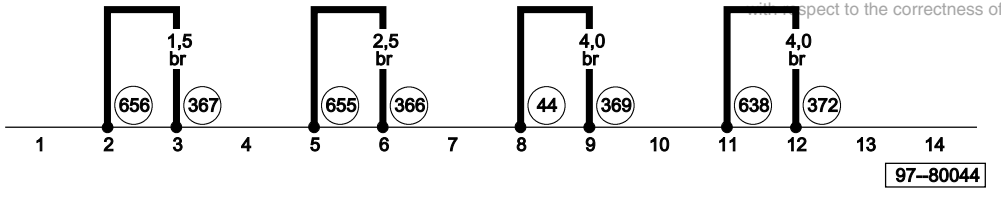
⇒ Guided Fault Finding

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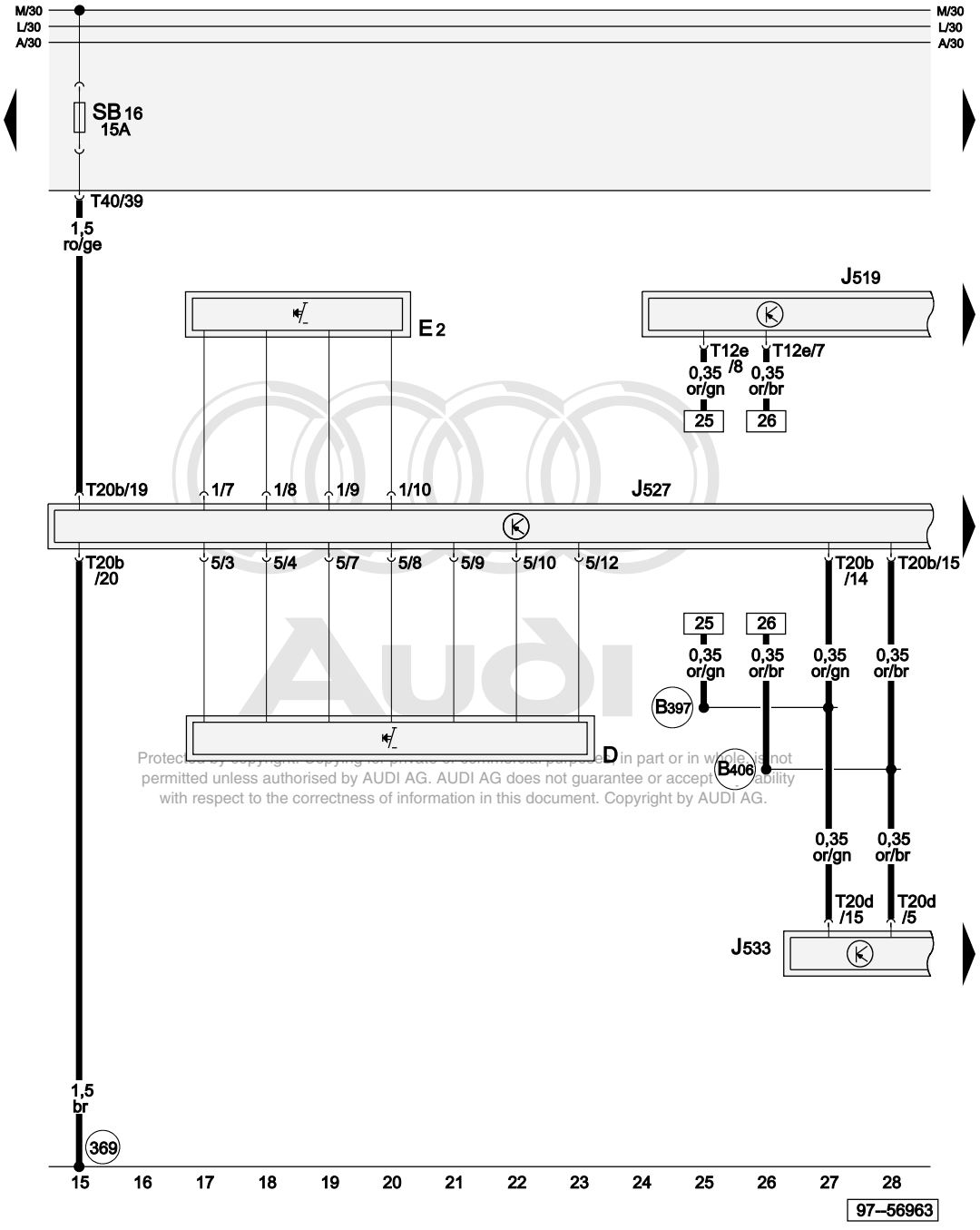
Earth points, earth connections

- 44 Earth point, A pillar, bottom left
- 366 Earth connection 1, in main wiring harness
- 367 Earth connection 2, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 638 Earth point on right A pillar
- 655 Earth point on left headlight
- 656 Earth point on right headlight



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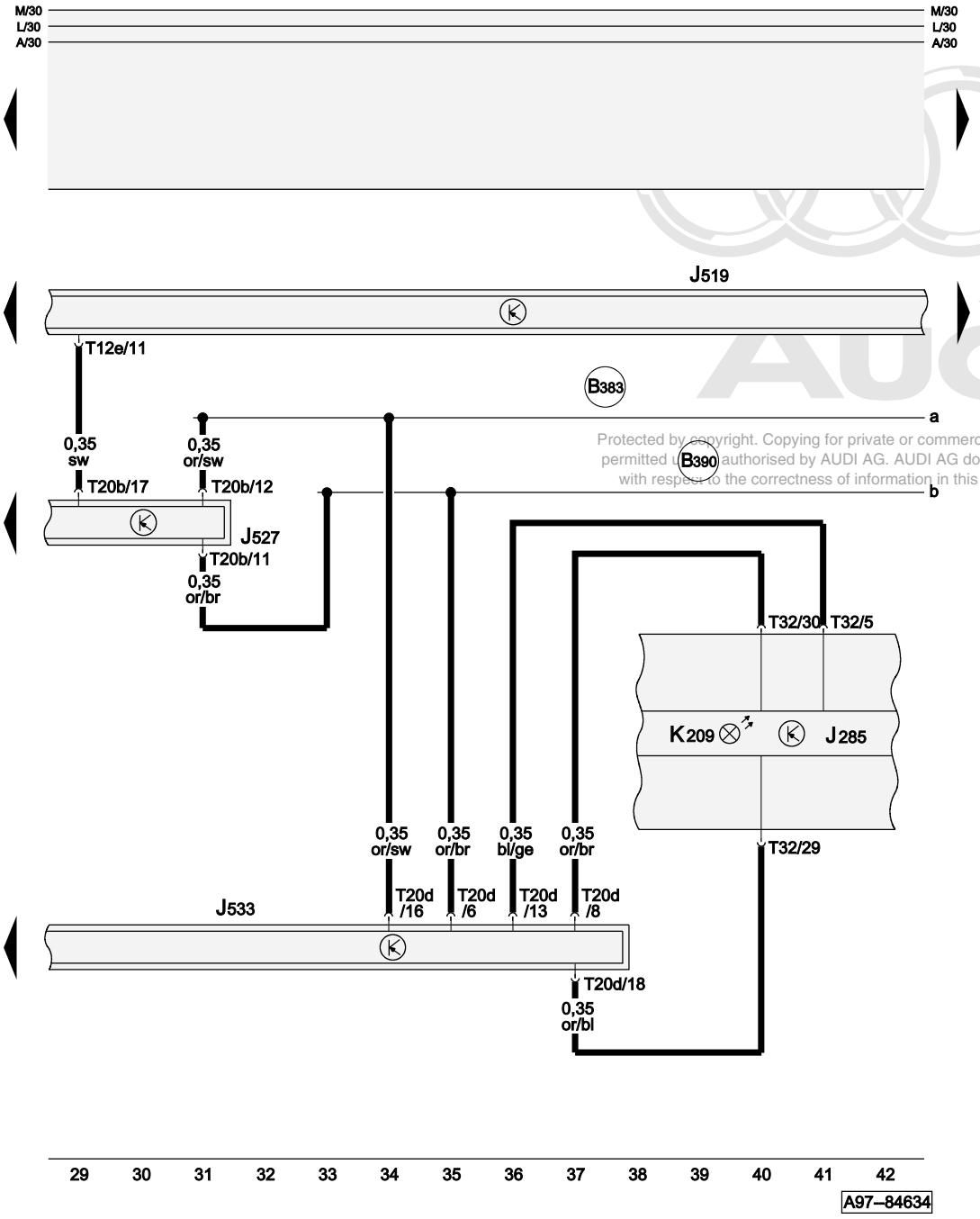


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Turn signal switch, ignition/starter switch

D	Ignition/starter switch
E2	Turn signal switch
J519	Onboard power supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB16	Fuse 16 on fuse box
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

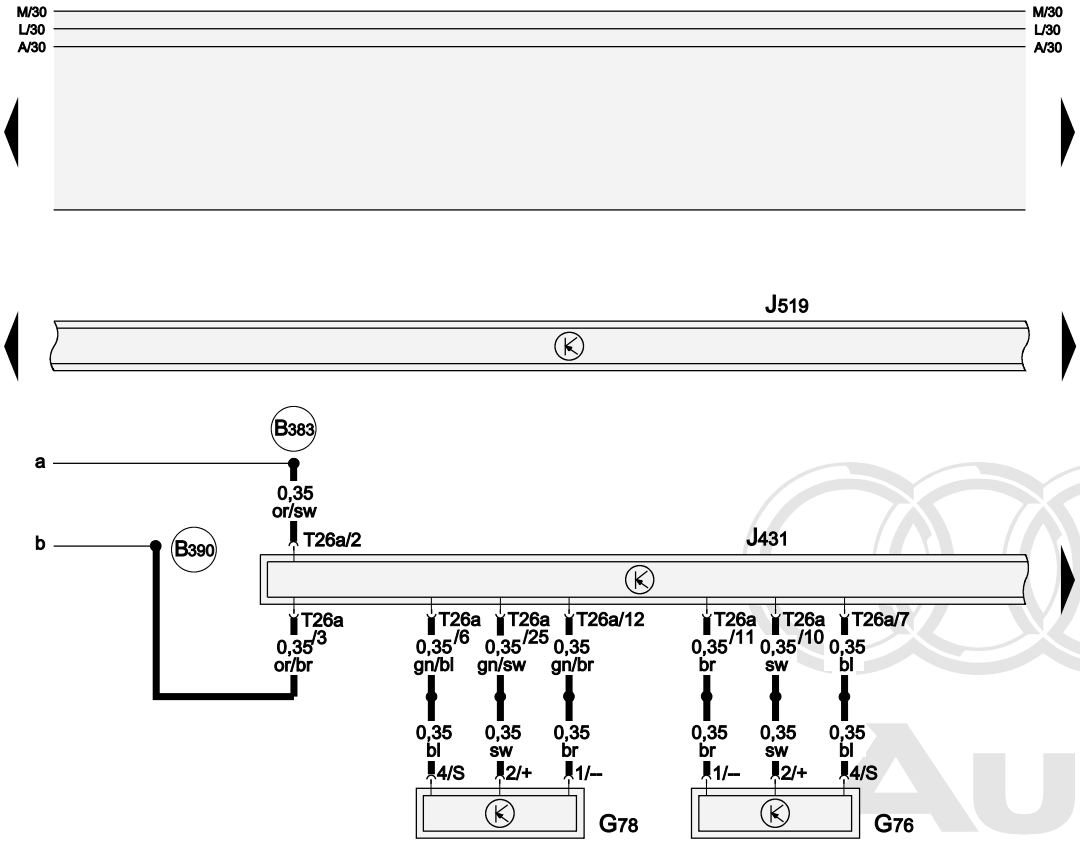


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Control unit with display in dash panel insert

J285	Control unit with display in dash panel insert
J519	Onboard power supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K209	Automatic control of lights warning lamp
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness

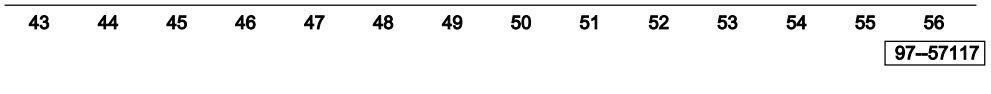
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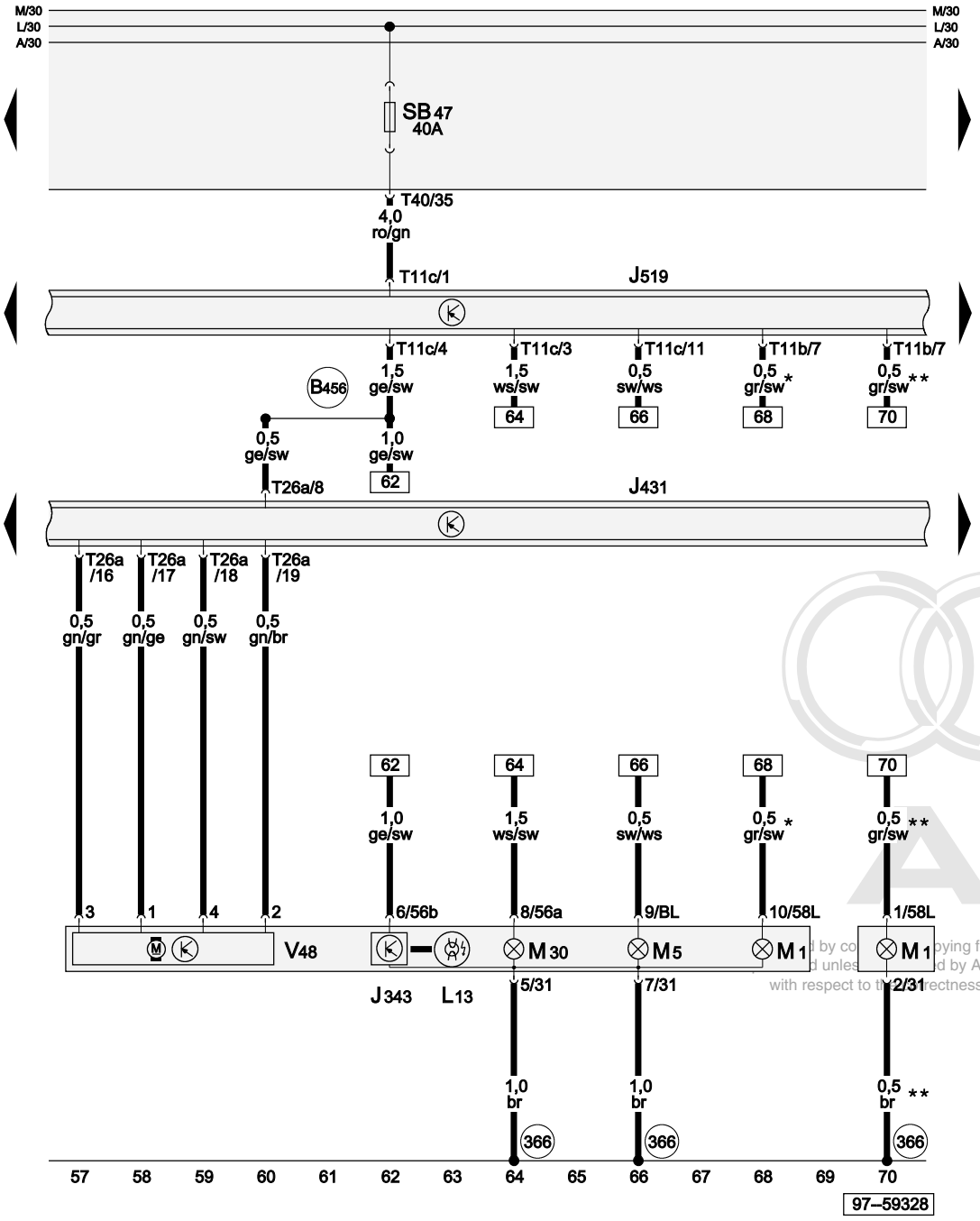
Vehicle level senders

G76	Vehicle level sender, rear left
G78	Vehicle level sender, front left
J431	Headlight range control, control unit
J519	Onboard power supply control unit
T26a	26-pin connector, black (connector A)
B383	Connection -1- (drive train CAN bus, high), in main wiring harness
B390	Connection -1- (drive train CAN bus, low), in main wiring harness

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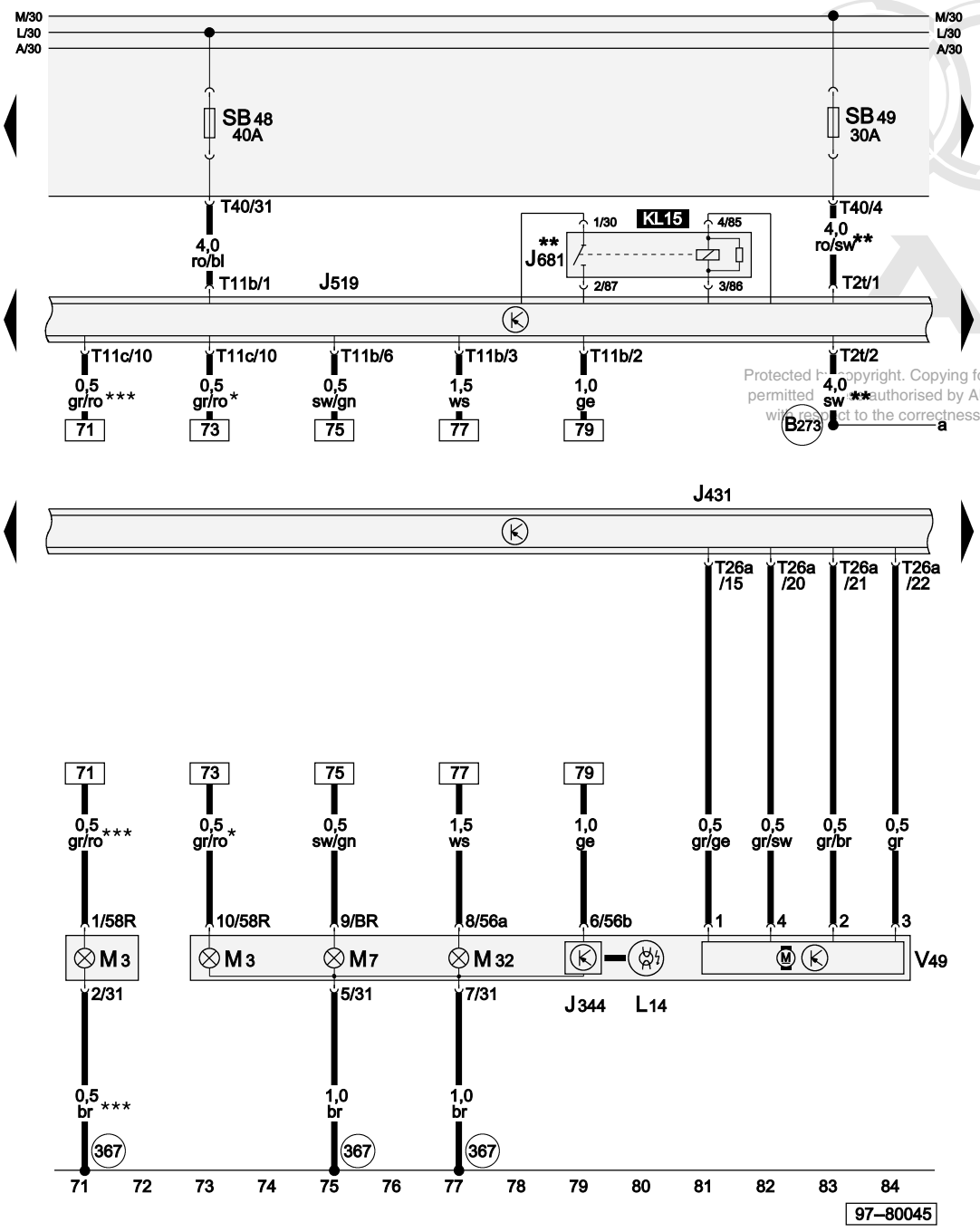
Left headlight

J343	Left gas discharge lamp control unit
J431	Headlight range control, control unit
J519	Onboard power supply control unit
L13	Gas discharge lamp, left
M1	Side light bulb, left
M5	Turn signal bulb, front left
M30	Main beam bulb, left
SB47	Fuse 47 on fuse box
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T26a	26-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
V48	Headlight range control motor, left
366	Earth connection 1, in main wiring harness
B456	Connection (56b), in main wiring harness
*	Only applies to models with side light in headlight unit
**	Only applies to models without side light in headlight unit

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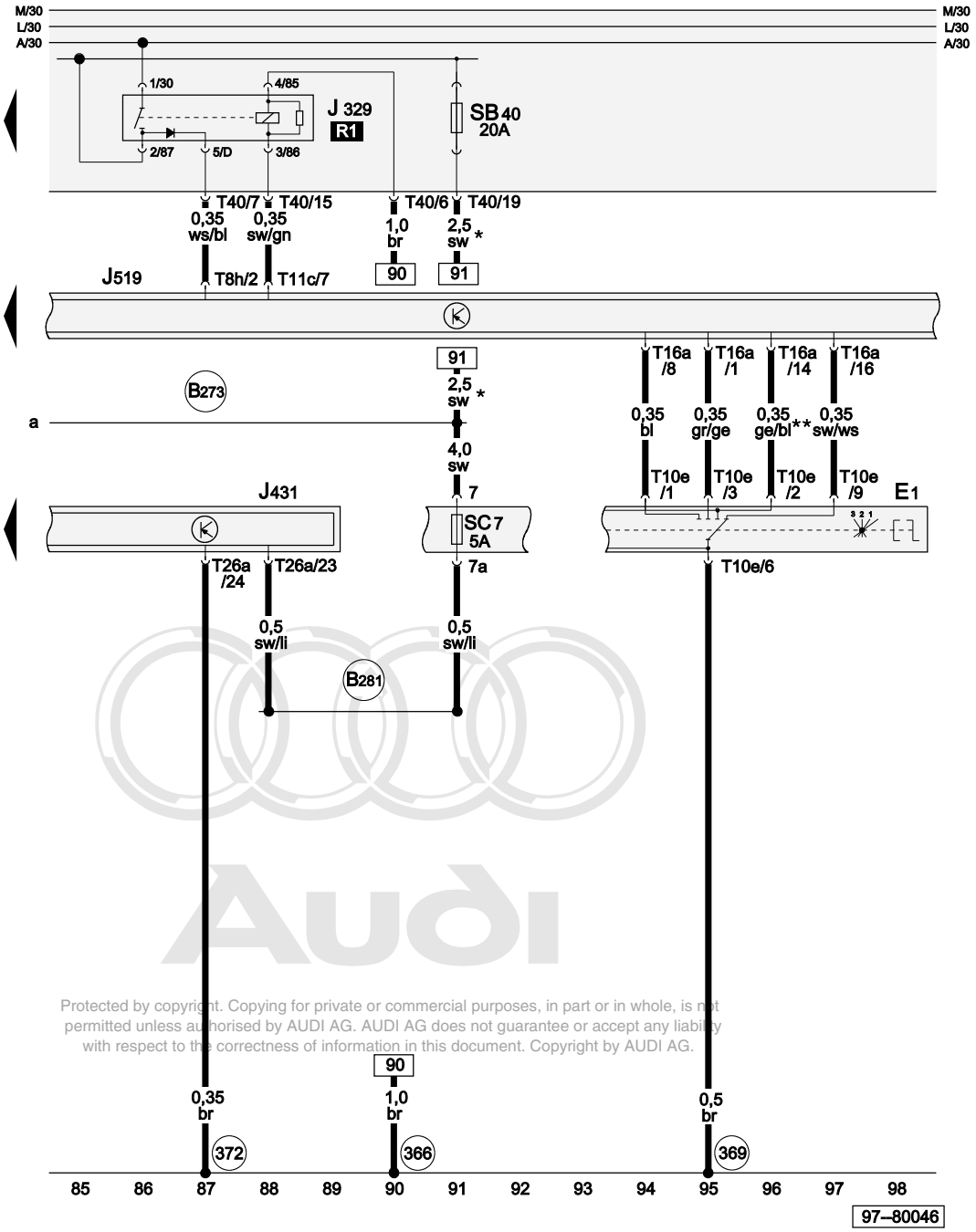


Right headlight

J344	Right gas discharge light control unit
J431	Headlight range control, control unit
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay 2
L14	Right gas discharge bulb
M3	Side light bulb, right
M7	Turn signal bulb, front right
M32	Main beam bulb, right
SB48	Fuse 48 on fuse box
SB49	Fuse 49 on fuse box
T2t	2-pin connector, black (connector L)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T26a	26-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
V49	Headlight range control motor, right
367	Earth connection 2, in main wiring harness
B273	Positive (+) connection (15), in main wiring harness
*	Only applies to models with side light in headlight unit
**	Only applies to models with battery in luggage compartment
***	Only applies to models without side light in headlight unit

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Light switch, terminal 15 voltage supply relay

E1	Light switch
J329	Terminal 15 voltage supply relay
J431	Headlight range control, control unit
J519	Onboard power supply control unit
SB40	Fuse 40 on fuse box
SC7	Fuse 7 on fuse box
T8h	8-pin connector, black (connector F)
T10e	10-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T16a	16-pin connector, black (connector E)
T26a	26-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B273	Positive (+) connection (15), in main wiring harness
B281	Positive (+) connection 5 (15a), in main wiring harness
*	Only applies to models with battery in engine compartment
**	Only applies to models with automatic headlight switching with coming home function ⇒ applicable Current Flow Diagram

Air conditioning system

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

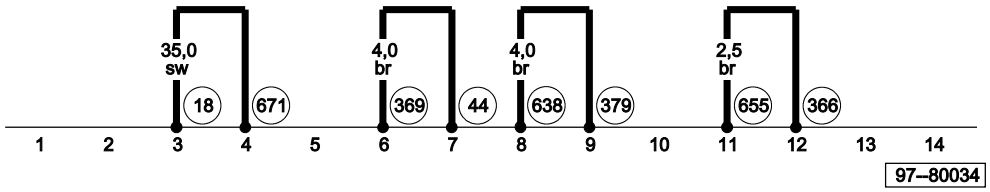
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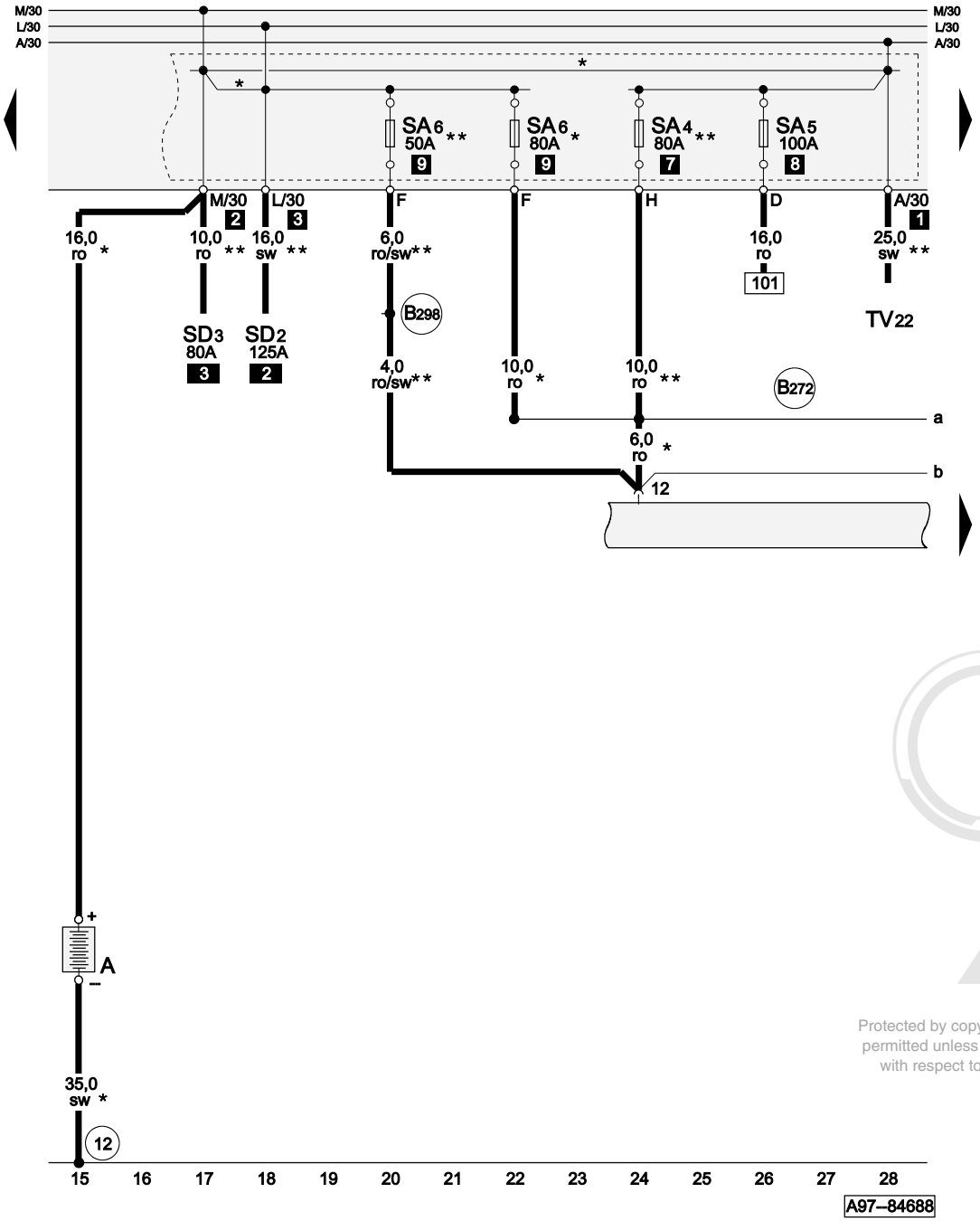
Earth points, earth connections

- 18 Earth point on engine block
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 379 Earth connection 14, in main wiring harness
- 638 Earth point, right A-pillar
- 655 Earth point, on left headlight
- 671 Earth point 1, on front of left longitudinal member

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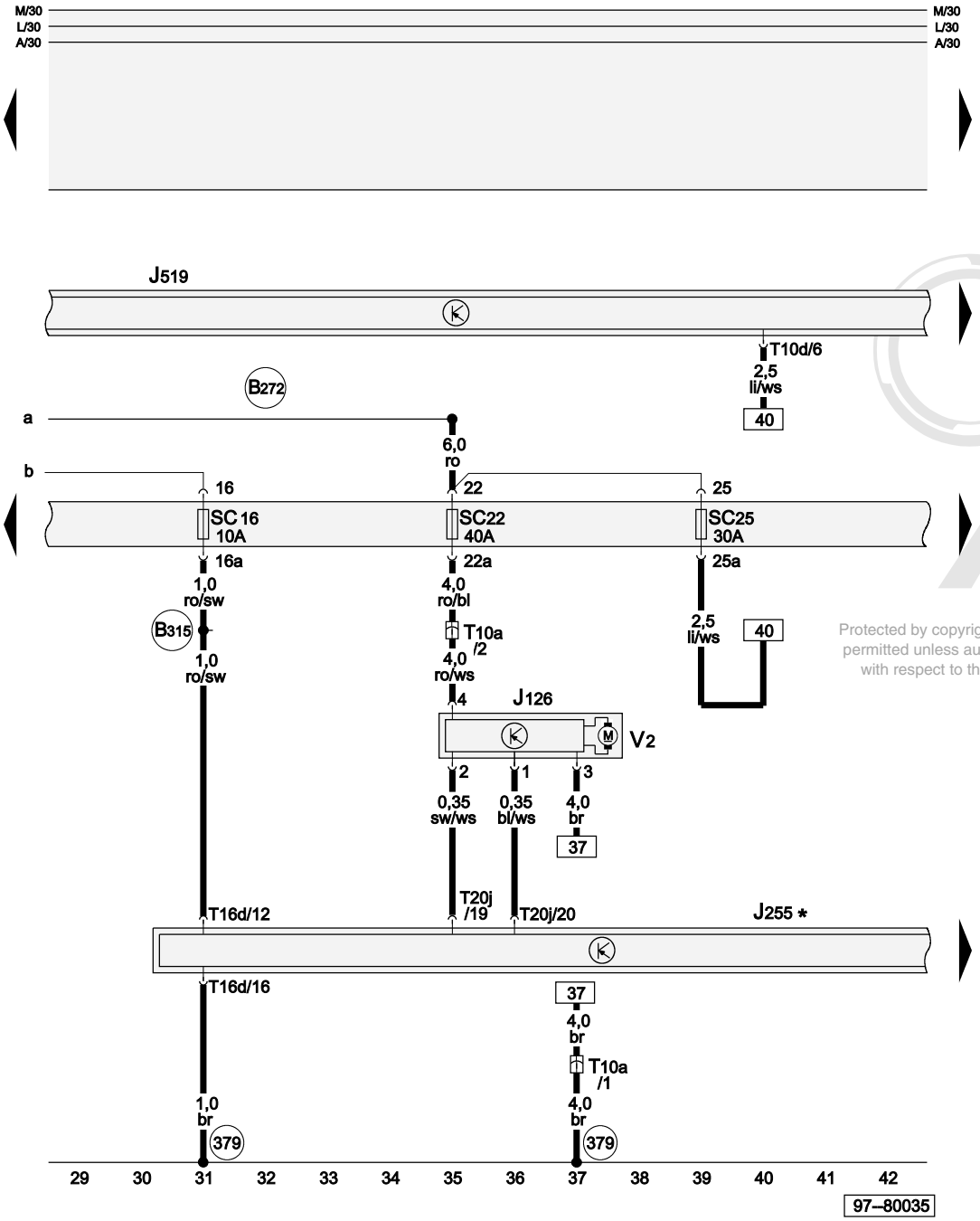


Battery, battery cut-off relay

A	Battery
SA4	Fuse 4 on fuse holder on battery
SA5	Fuse 5 on fuse holder on battery
SA6	Fuse 6 on fuse holder on battery
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
TV22	Terminal 30 wiring junction 2
12	Earth point, on left in engine compartment
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
*	⇒ Applicable Current Flow Diagram with battery in engine compartment
**	⇒ Applicable Current Flow Diagram with battery in luggage compartment

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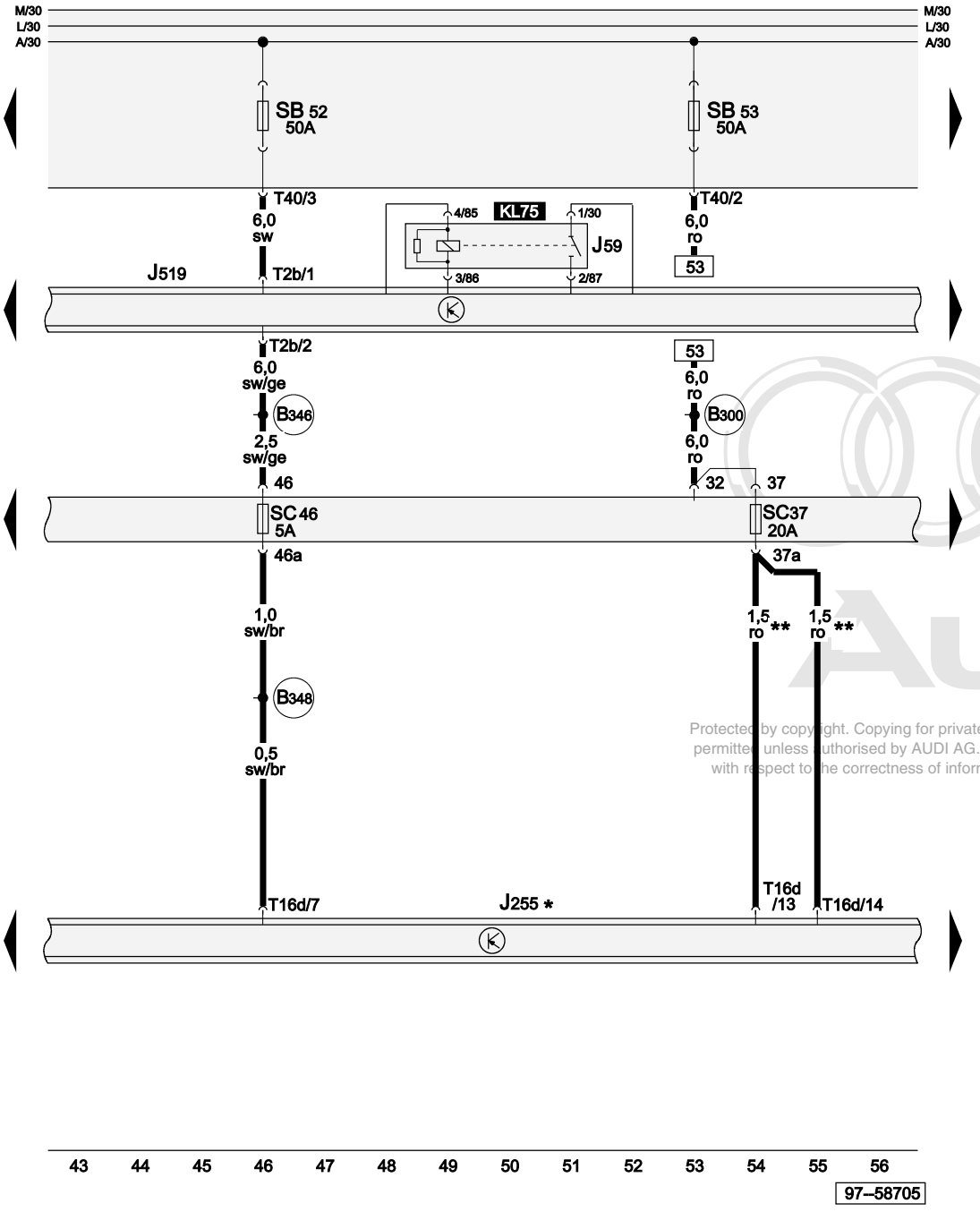


Fresh air blower control unit, fuses

J126	Fresh air blower control unit
J255	Climatronic control unit
J519	Onboard supply control unit
SC16	Fuse 16 on fuse holder
SC22	Fuse 22 on fuse holder
SC25	Fuse 25 on fuse holder
T10a	10-pin connector, black, behind the glove compartment
T10d	10-pin connector, black (connector K)
T16d	16-pin connector, black (connector D)
T20j	20-pin connector, red (connector B)
V2	Fresh air blower
379	Earth connection 14, in main wiring harness
B272	Positive connection (30), in main wiring harness
B315	Positive connection 1 (30a), in main wiring harness
*	Operating and display unit for air conditioning system/Climatronic

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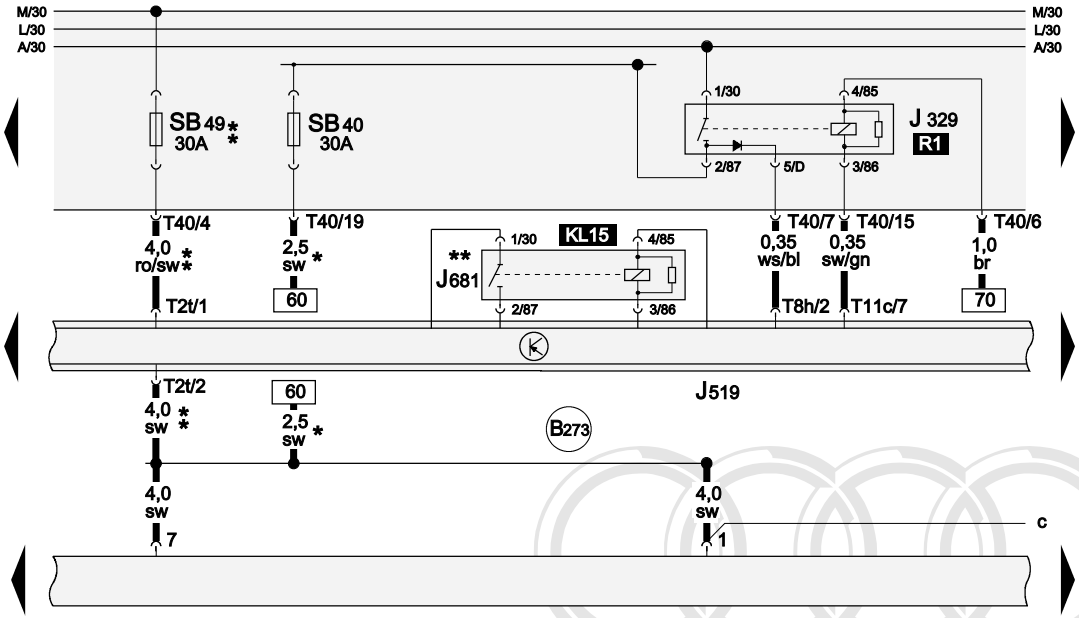


X-contact relief relay, fuses

J59	X-contact relief relay
J255	Climatronic control unit
J519	Onboard supply control unit
SB52	Fuse 52 on fuse holder
SB53	Fuse 53 on fuse holder
SC37	Fuse 37 on fuse holder
SC46	Fuse 46 on fuse holder
T2b	2-pin connector, brown (connector I)
T16d	16-pin connector, black (connector D)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
B300	Positive connection 4 (30), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
*	Operating and display unit for air conditioning system/Climatronic
**	for models with seat heating only

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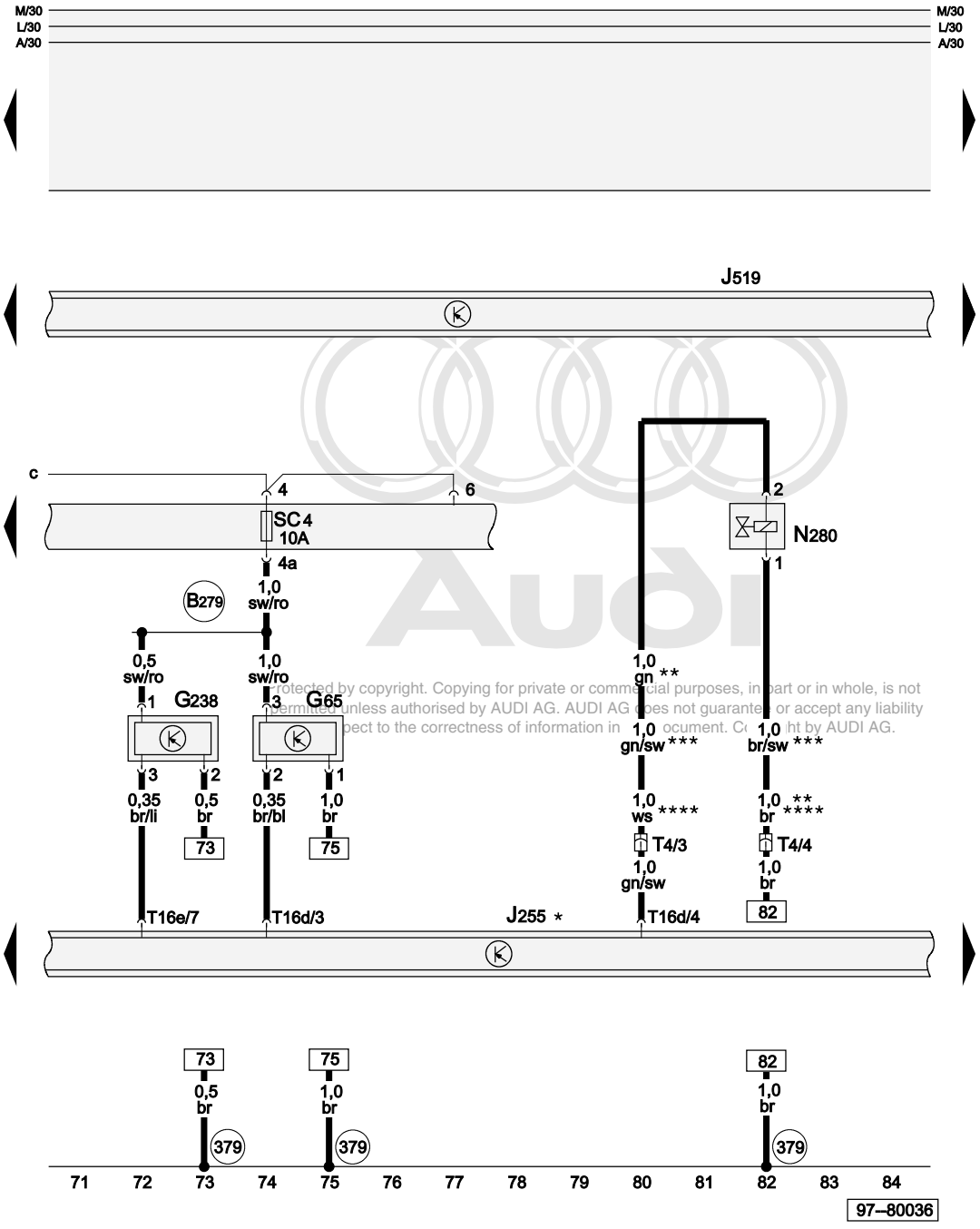
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Terminal 15 voltage supply relay, fuses

J255	Climatronic control unit
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B273	Positive connection (15), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only
***	Operating and display unit for air conditioning system/Climatronic

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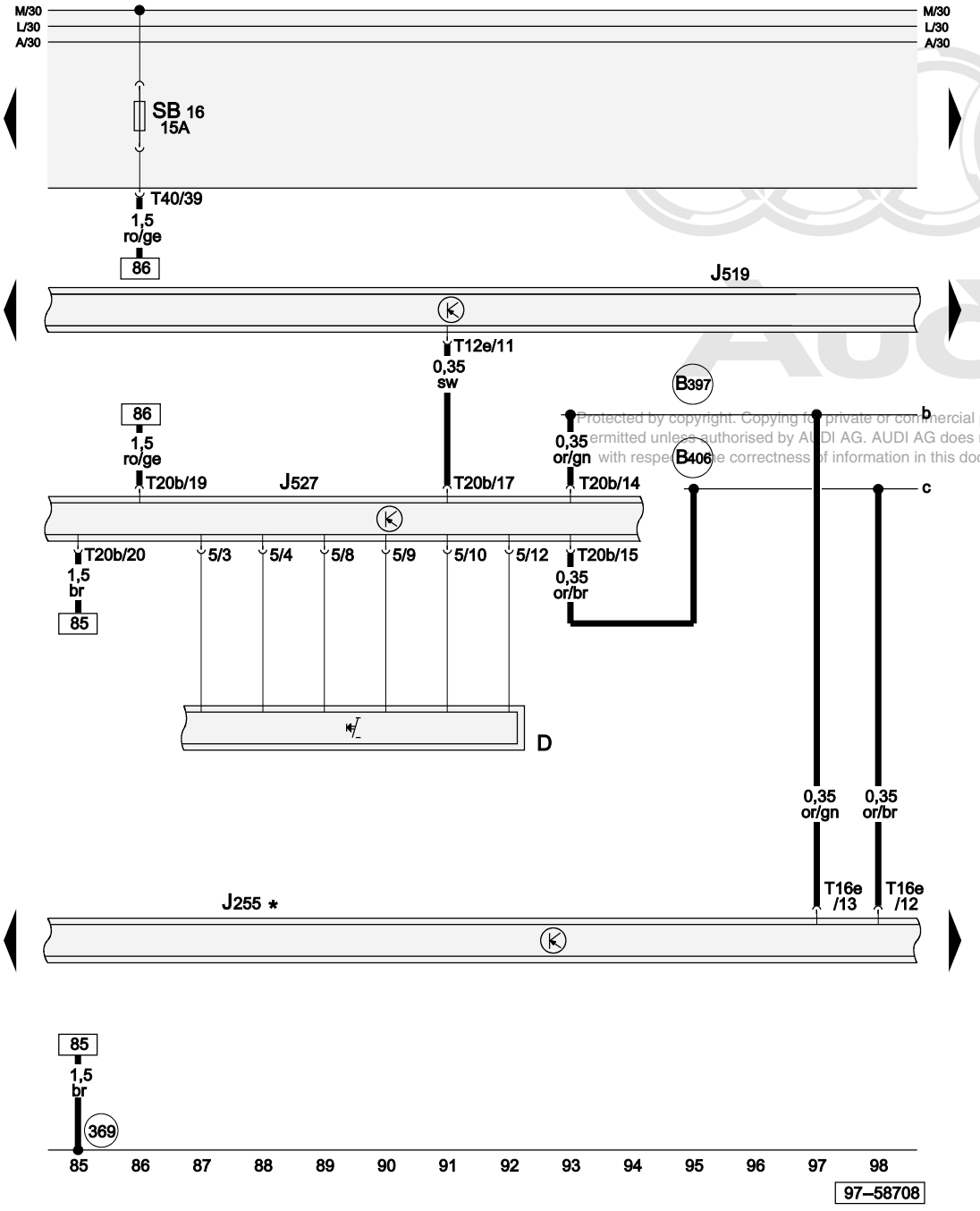


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High pressure sender, air quality sensor, compressor regulating valve, air conditioner

G65	High pressure sender
G238	Air quality sensor
J255	Climatronic control unit
J519	Onboard supply control unit
N280	Air conditioning system compressor regulating valve
SC4	Fuse 4 on fuse holder C
T4	4-pin connector, black, in front left engine compartment
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
379	Earth connection 14, in main wiring harness
B279	Positive connection 3 (15a), in main wiring harness
*	Operating and display unit for air conditioning system/Climatronic
**	for models with engine code AXX, BPY only
***	for models with engine codes BGU, BLX, BHD, BMB, BLY, BLR, BDB, BMJ, BKC, AZV, BKD only
****	for models with engine codes BLP, BLF only

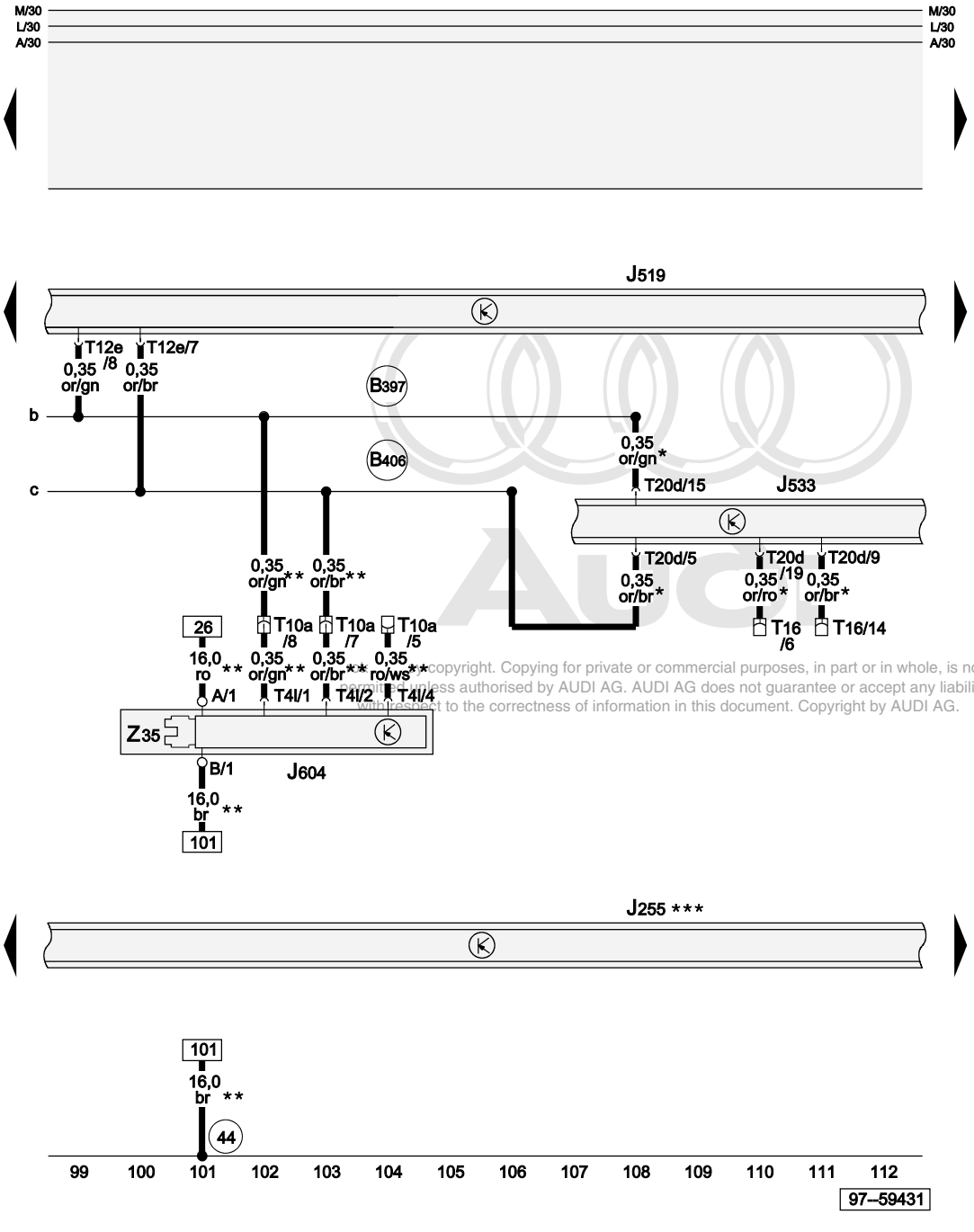


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Ignition/starter switch, convenience CAN bus

D	Ignition/starter switch
J255	Climatronic control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB16	Fuse 16 on fuse holder
T12e	12-pin connector, black (connector G)
T16e	16-pin connector, brown (connector C)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Operating and display unit for air conditioning system/Climatronic

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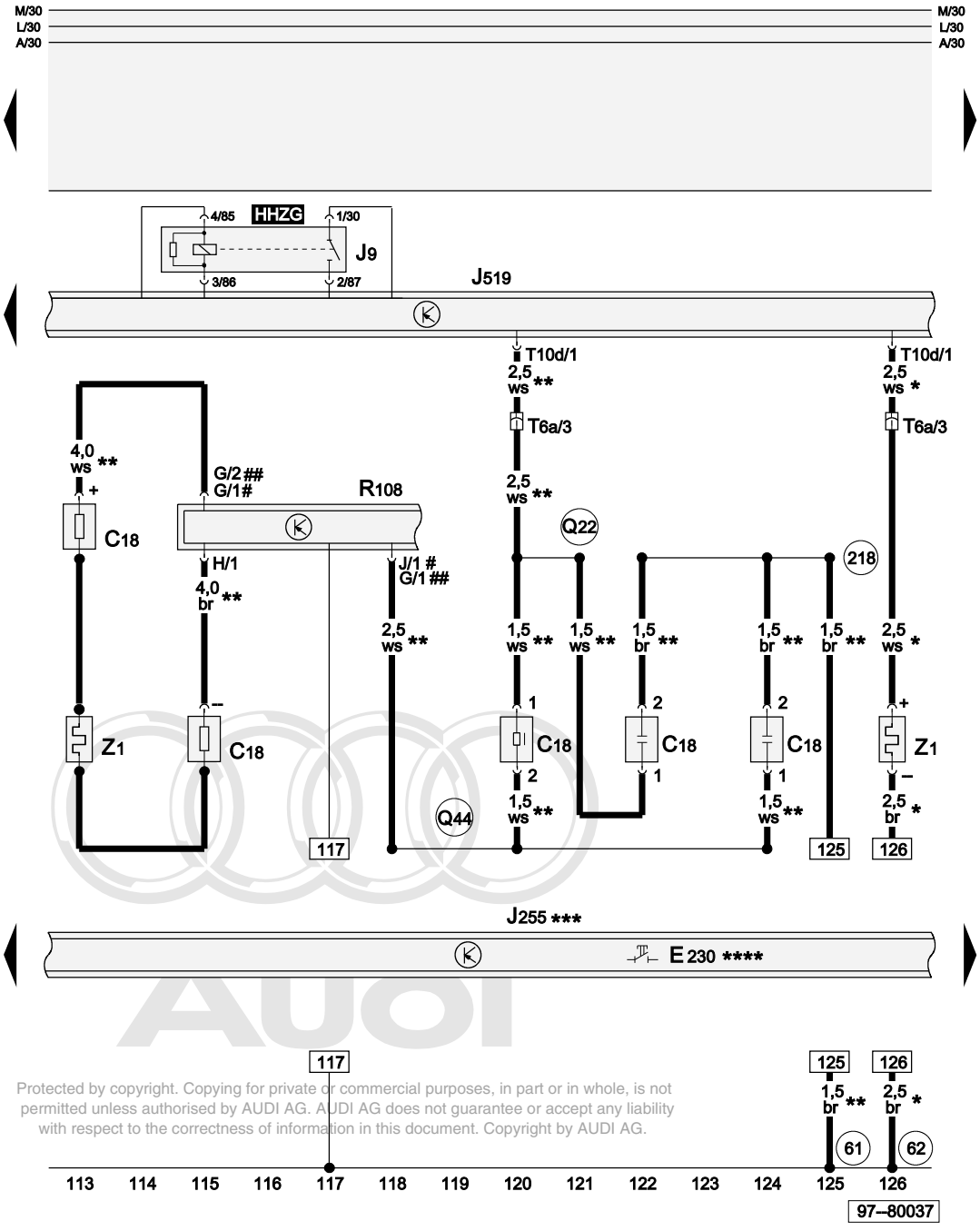


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Auxiliary air heater element, axiliary air heater control unit, convenience CAN bus

J255	Climatronic control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J604	Auxiliary air heater control unit
T4l	4-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T12e	12-pin connector, black (connector G)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
Z35	Auxiliary heating heater element
44	Earth point, lower part of left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection -1- (convenience CAN bus, low), in main wiring harness
*	⇒ Applicable Current Flow Diagram: diagnostic connector
**	for models with auxiliary air heater only
***	Operating and display unit for air conditioning system/Climatronic

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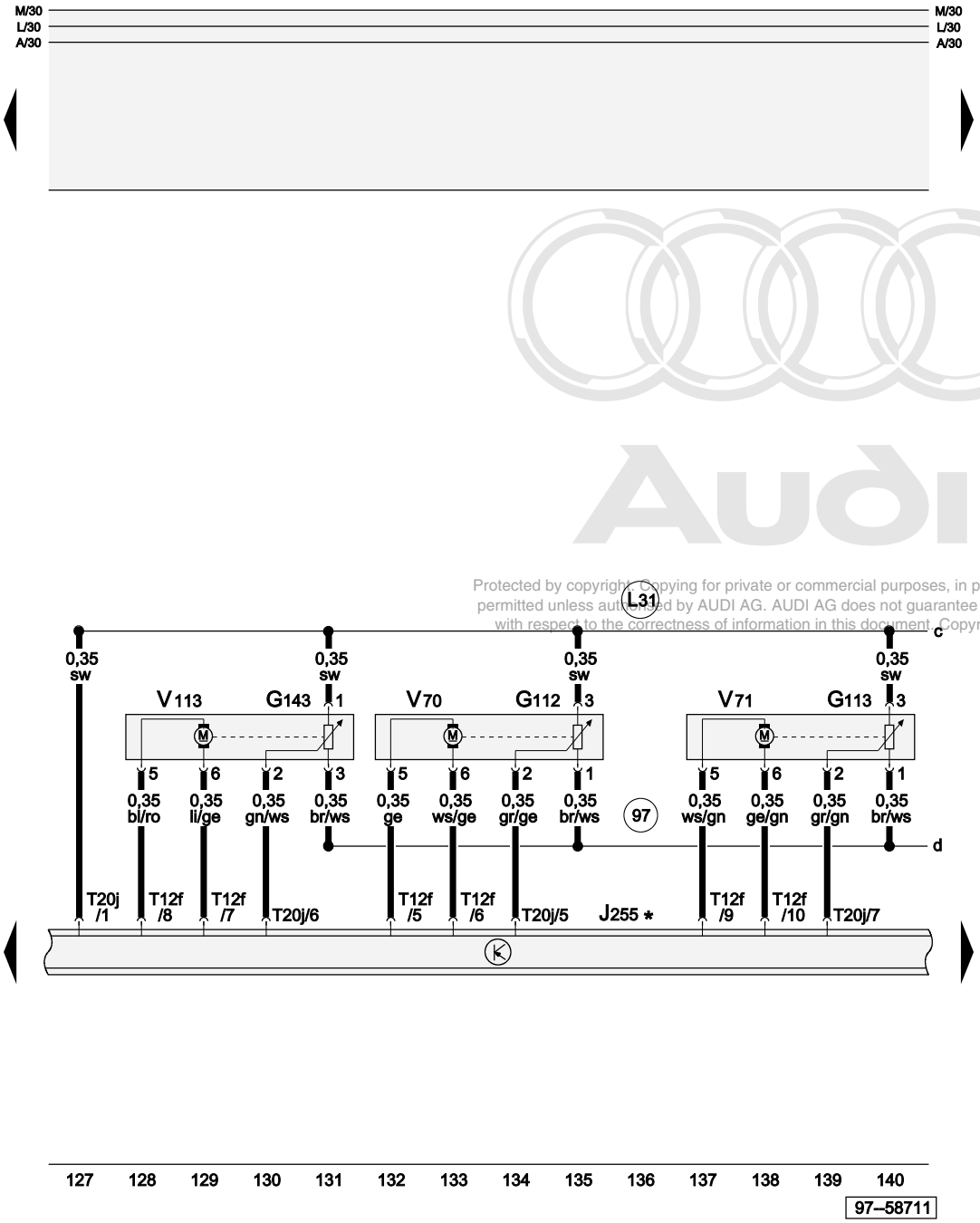


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Heated rear window relay

C18	Window aerial suppression filter
E230	Heated rear window button
J9	Heated rear window relay
J255	Climatronic control unit
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
61	Earth point, left C-pillar
62	Earth point, right C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness
*	for models without radio only
**	for models with radio only
***	Operating and display unit for air conditioning system/Climatronic
****	Operation for Z1 via convenience CAN bus
#	for models with 5-door models only
##	for models with 3-door models only

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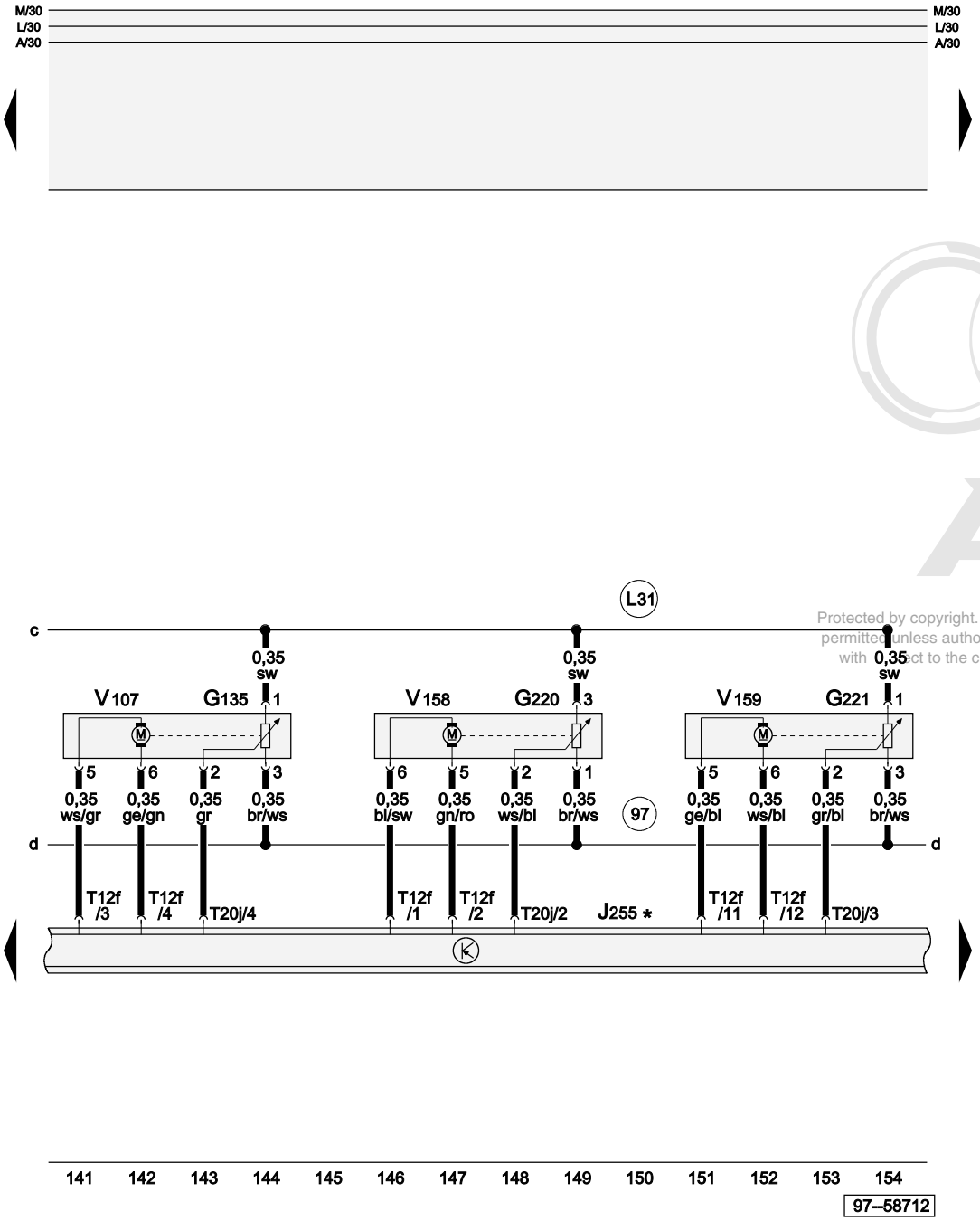


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Central flap control motor, air flow flap control motor, air recirculation flap control motor

G112	Central flap control motor potentiometer
G113	Air flow flap control motor potentiometer
G143	Air recirculation flap control motor potentiometer
J255	Climatronic control unit
T12f	12-pin connector, black (connector A)
T20j	20-pin connector, red (connector B)
V70	Central flap control motor
V71	Air flow flap control motor
V113	Air recirculation flap control motor
97	Earth connection 1, in air conditioning system wiring harness
L31	Connection (5V), in air conditioning system wiring harness
*	Operating and display unit for air conditioning system/Climatronic

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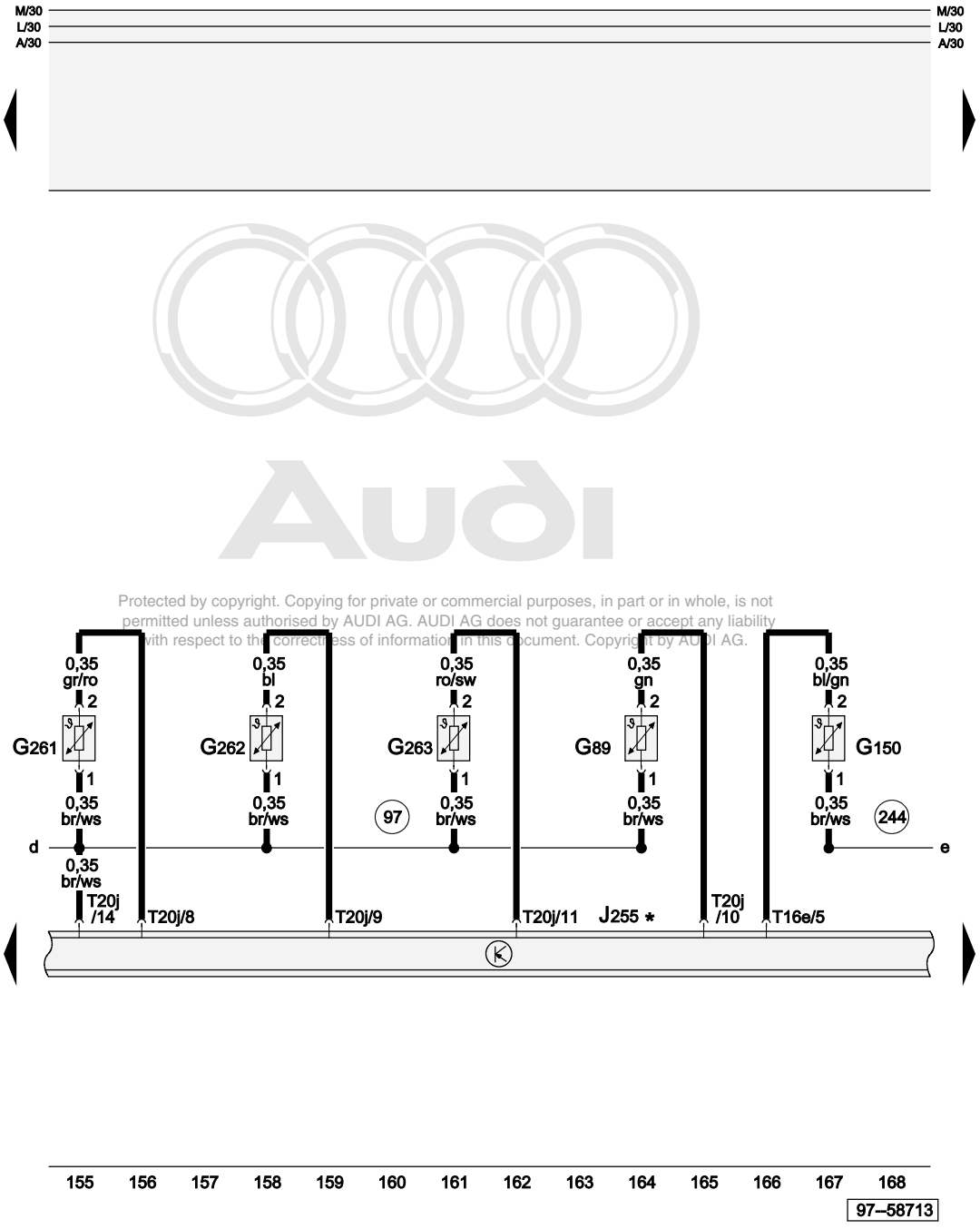


Defroster flap control motor, left temperature flap control motor, right temperature flap control motor

G135	Defroster flap control motor potentiometer
G220	Potentiometer for left temperature flap control motor
G221	Potentiometer for right temperature flap control motor
J255	Climatronic control unit
T12f	12-pin connector, black (connector A)
T20j	20-pin connector, red (connector B)
V107	Defroster flap control motor
V158	Left temperature flap control motor
V159	Right temperature flap control motor
(97)	Earth connection 1, in air conditioning system wiring harness
(L31)	Connection (5V), in air conditioning system wiring harness
*	Operating and display unit for air conditioning system/Climatronic

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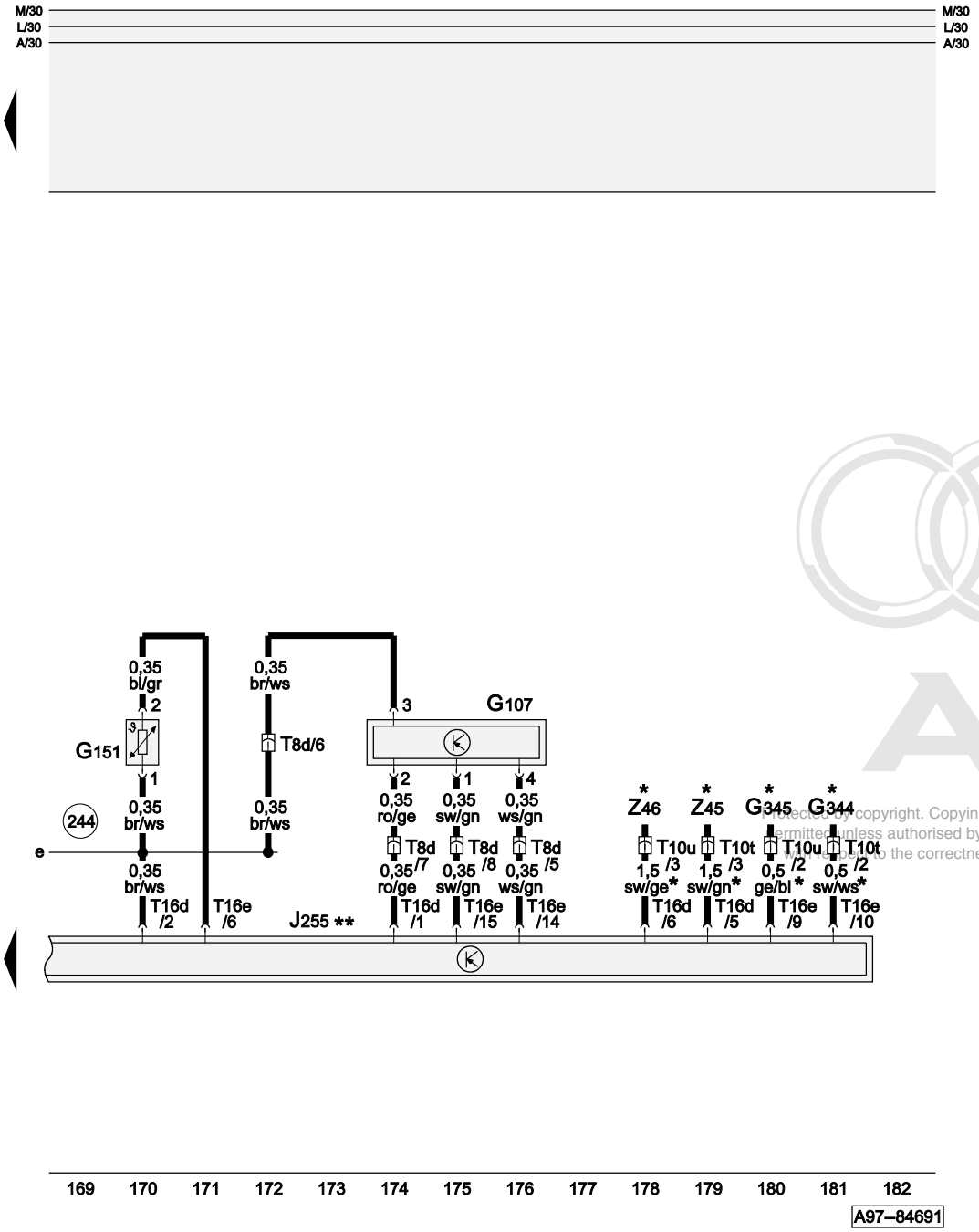


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Vent temperature sender, fresh air intake duct temperature sensor

G89	Fresh air intake duct temperature sensor
G150	Left vent temperature sender
G261	Left footwell vent temperature sender
G262	Right footwell vent temperature sender
G263	Evaporator output temperature sender
J255	Climatronic control unit
T16e	16-pin connector, brown (connector C)
T20j	20-pin connector, red (connector B)
(97)	Earth connection 1, in air conditioning system wiring harness
(244)	Earth connection (sender earth), in Climatronic wiring harness
*	Operating and display unit for air conditioning system/Climatronic

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Sunlight penetration photosensor, right vent temperature sender

G107	Sunlight penetration photosensor
G151	Right vent temperature sender
G344	Front left seat temperature sender
G345	Front right seat temperature sender
J255	Climatronic control unit
T8d	8-pin connector, black, behind centre console
T10t	10-pin connector, black, under driver seat
T10u	10-pin connector, black, under front passenger seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z45	Front left seat heating
Z46	Front right seat heating
(244)	Earth connection (sender earth), in Climatronic wiring harness
*	See applicable Current Flow Diagram: seat heating
**	Operating and display unit for air conditioning system/Climatronic

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Automatic anti-dazzle interior mirror

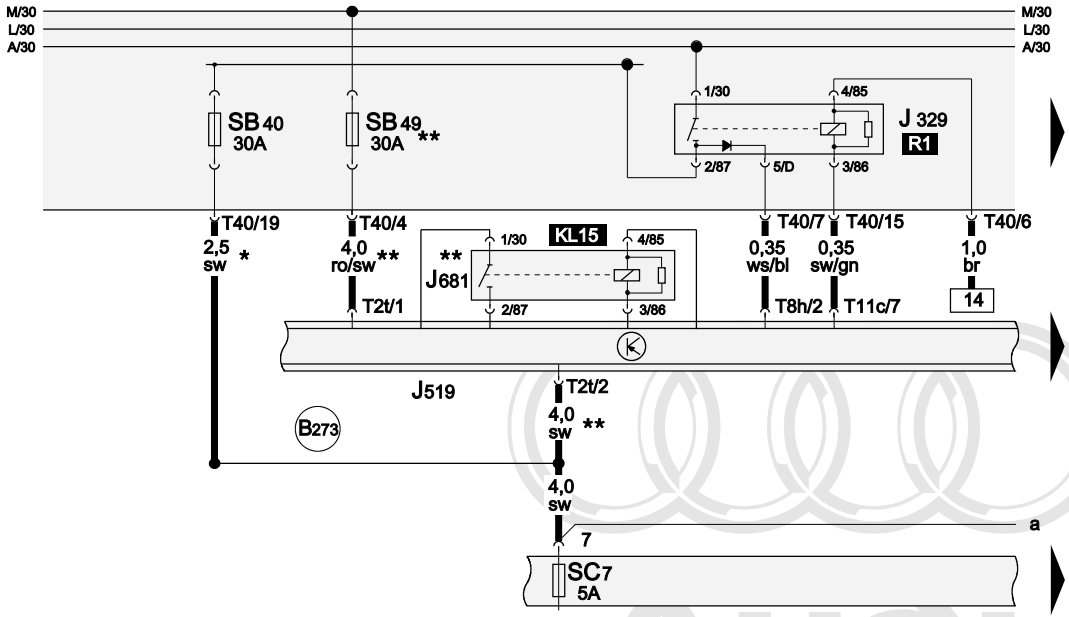
⇒ **With coming home function**
⇒ **Without coming home function**
From model year 2005

Notes:
Information on
- Position of relays and fuses
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations
Information on
- Fault Finding Programmes

⇒ Guided Fault Finding

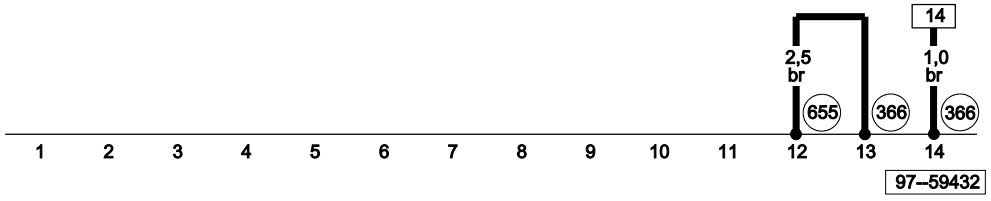
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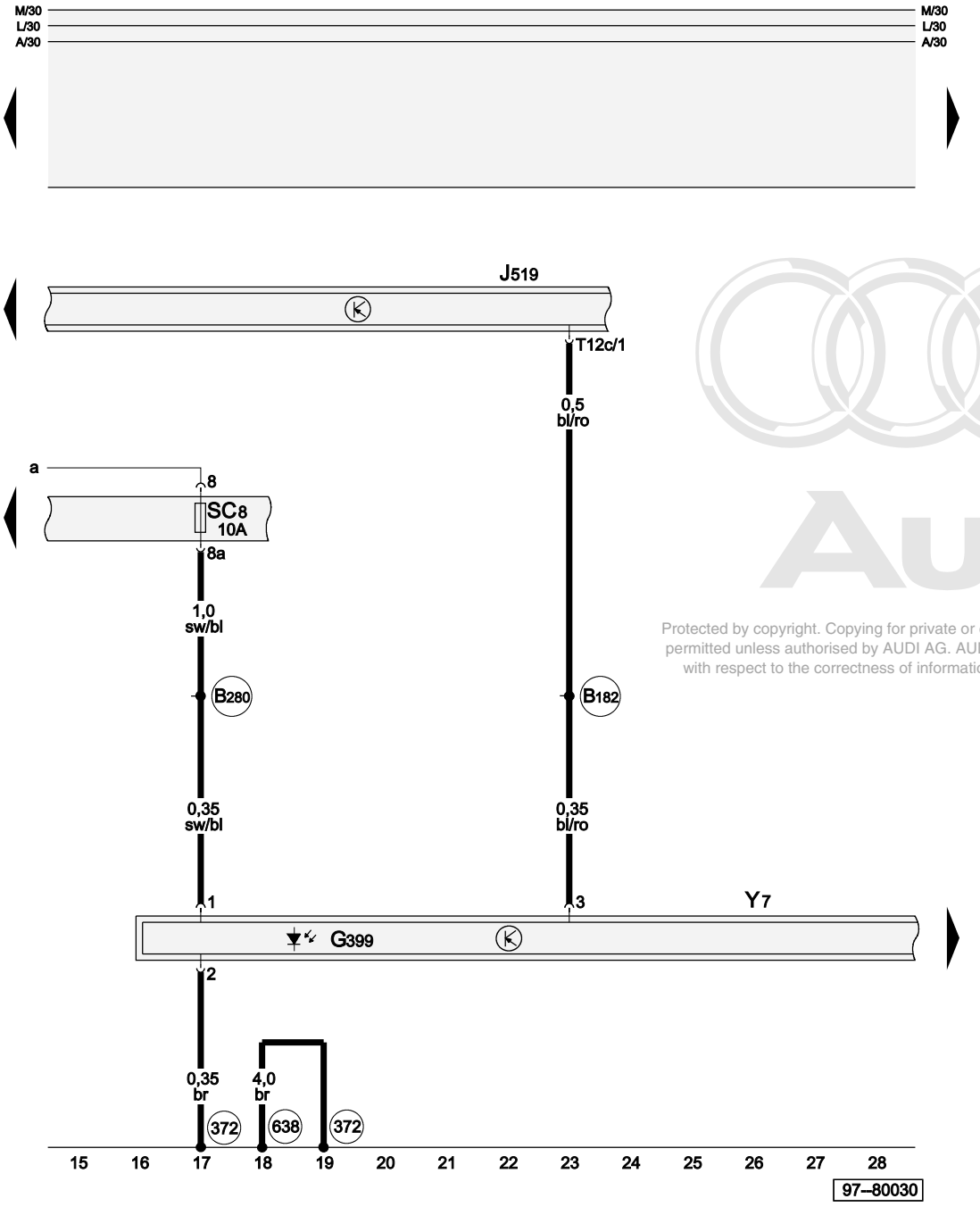
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Fuses, terminal 15 voltage supply relay

J329	Terminal 15 voltage supply relay
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse box
SB49	Fuse 49 on fuse box
SC7	Fuse 7 on fuse box
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
366	Earth connection 1, in main wiring harness
655	Earth point on left headlight
B273	Positive (+) connection (15), in main wiring harness
*	Only applies to models with battery in engine compartment
**	Only applies to models with battery in luggage compartment



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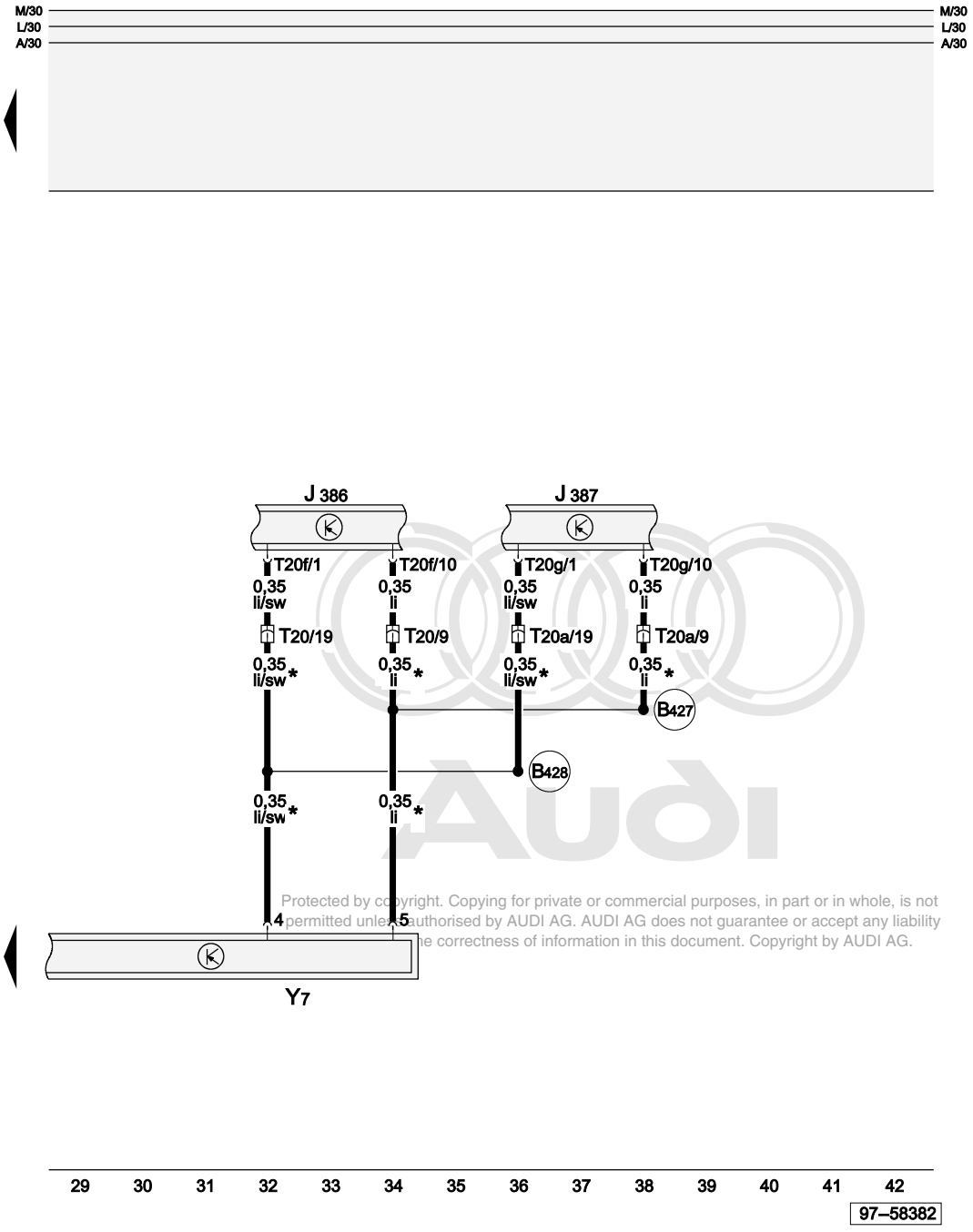


Light sensor, automatic anti-dazzle interior mirror

G399	Light sensor
J519	Onboard power supply control unit
SC8	Fuse 8 on fuse box
T12c	12-pin connector, black (connector B)
Y7	Automatic anti-dazzle interior mirror
372	Earth connection 7, in main wiring harness
638	Earth point on right A pillar
B182	Connection (RF (reversing light)), in interior wiring harness
B280	Positive (+) connection 4 (15a), in main wiring harness

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Door control units, automatic anti-dazzle interior mirror

J386	Door control unit, driver's side
J387	Door control unit, front passenger's side
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
Y7	Automatic anti-dazzle interior mirror
B427	Connection -1- (mirror signal), in main wiring harness
B428	Connection -2- (mirror signal), in main wiring harness
*	Only applies to models with automatic anti-dazzle interior mirror ⇒ applicable Current Flow Diagram: Convenience systems

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sw	=	black
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Headlights (with coming home function)

From model year 2005

Notes:

Information on

- Position of relays and fuses
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations

Information on

- Fault Finding Programmes

⇒ Guided Fault Finding

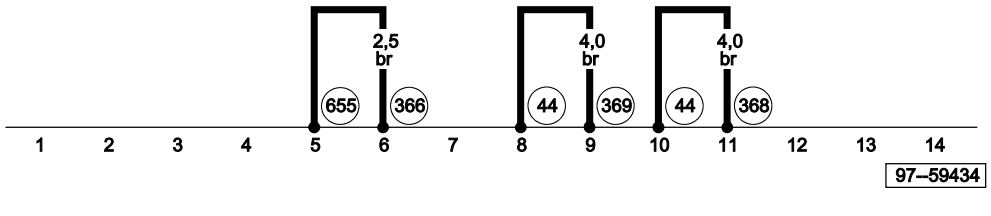
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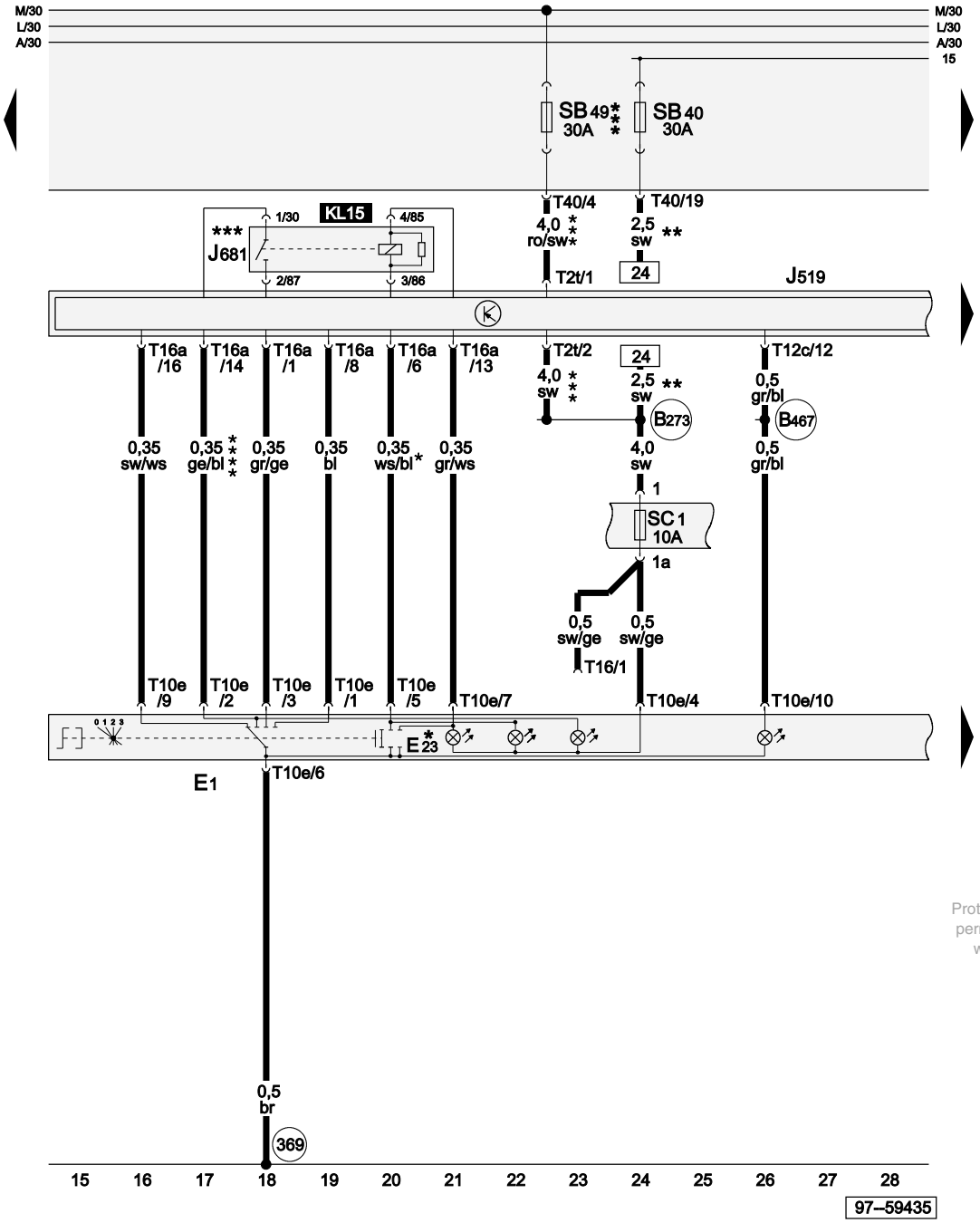
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Earth points, earth connections

- 44 Earth point, A pillar, bottom left
- 366 Earth connection -1-, in main wiring harness
- 368 Earth connection -3-, in main wiring harness
- 369 Earth connection -4-, in main wiring harness
- 655 Earth point, on left headlight



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or	=	orange
rs	=	pink

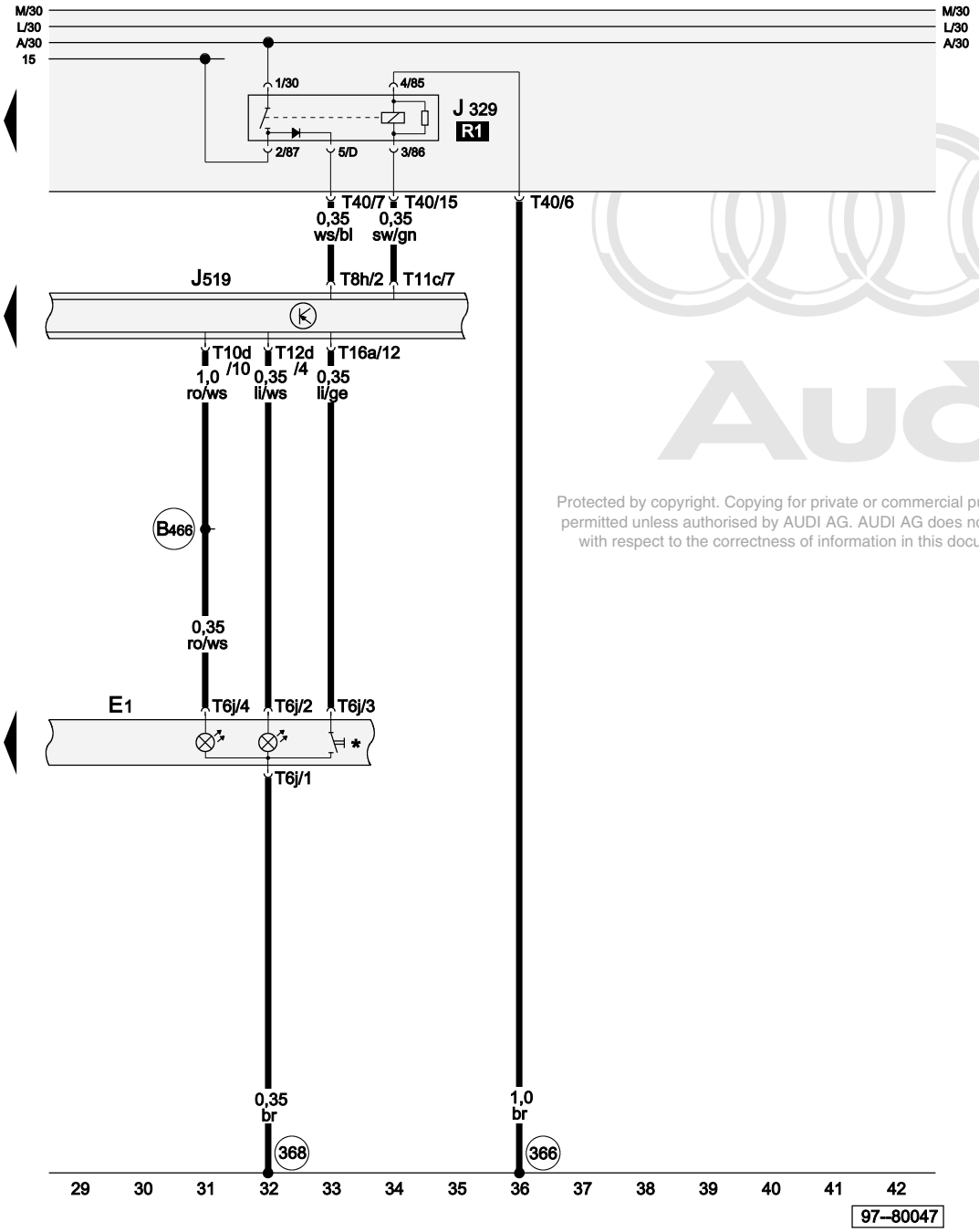


Light switch, fuse on fuse box

E1	Light switch
E23	Front and rear fog light switch
J519	Onboard power supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse box
SB49	Fuse 49 on fuse box
SC1	Fuse 1 on fuse box
T2t	2-pin connector, black (connector L)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T16	16-pin connector, black, dash panel, driver's side, bottom left (diagnostic connector)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B273	Positive (+) connection (15), in main wiring harness
B467	Connection 3, in main wiring harness
*	Only applies to models with front fog lights
**	Only applies to models with battery in engine compartment
***	Only applies to models with battery in luggage compartment
****	Only applies to models with automatic headlight switching

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ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Light switch, terminal 15 voltage supply relay

E1	Light switch
J329	Terminal 15 voltage supply relay
J519	Onboard power supply control unit
T6j	6-pin connector, black (connector C)
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
T11c	11-pin connector, brown (connector D)
T12d	12-pin connector, brown (connector C)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
B466	Connection 2, in main wiring harness
*	Coming home function switch

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Radio without Bose sound system

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

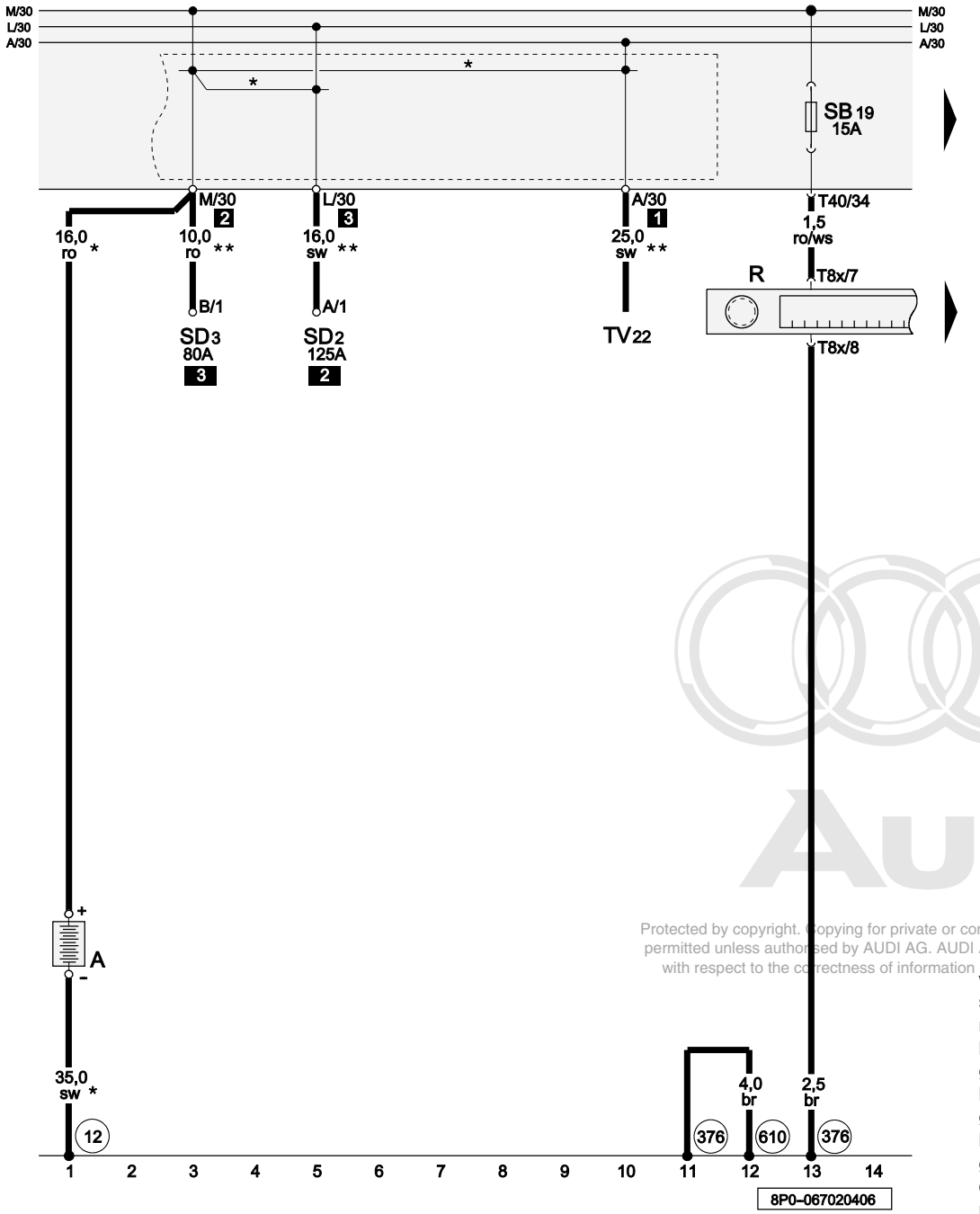
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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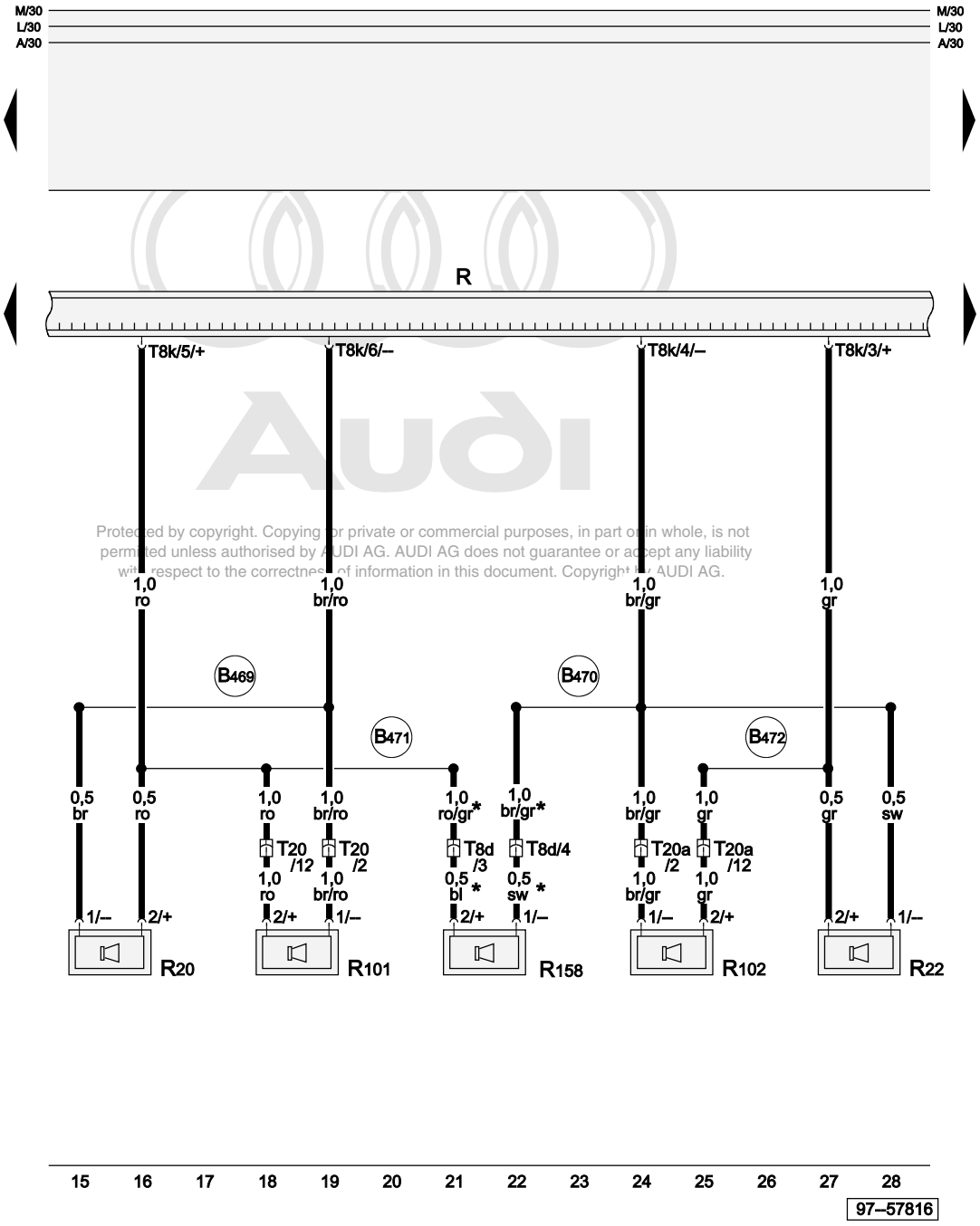


Battery, fuses on fuse holder

A	Battery
R	Radio
SB19	Fuse 19 on fuse holder B
SD2	Fuse 2 on fuse holder D
SD3	Fuse 3 on fuse holder D
T8x	8-pin connector, black (connector C)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
TV22	Terminal 30 wiring junction 2
(12)	Earth point, on left in engine compartment
(376)	Earth connection 11, in main wiring harness
(610)	Earth point (audio), under centre console, front
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

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rs	=	pink

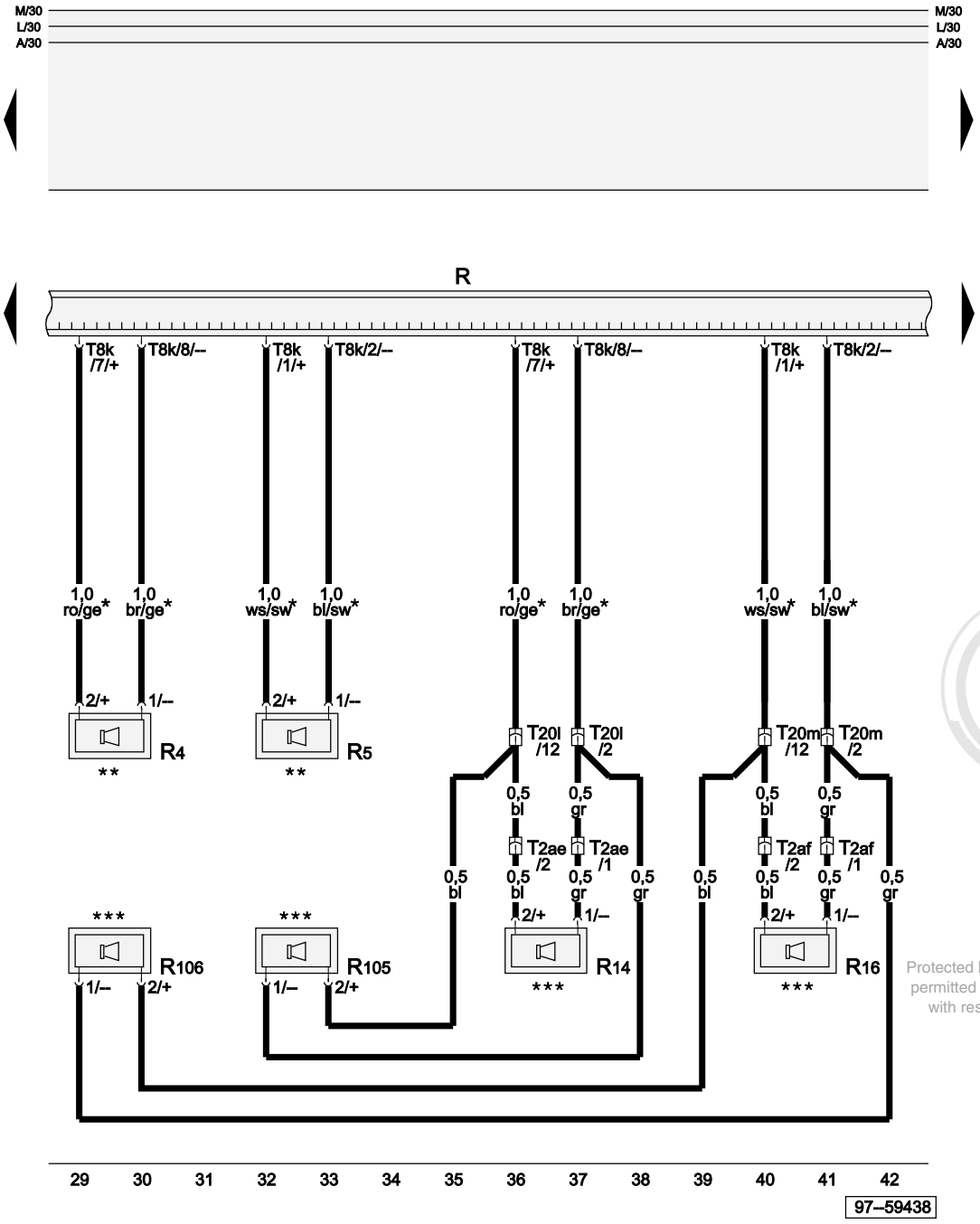


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Front loudspeaker

R	Radio
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8k	8-pin connector, brown (connector B)
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B472	Connection 8, in main wiring harness
*	for models with amplifier only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

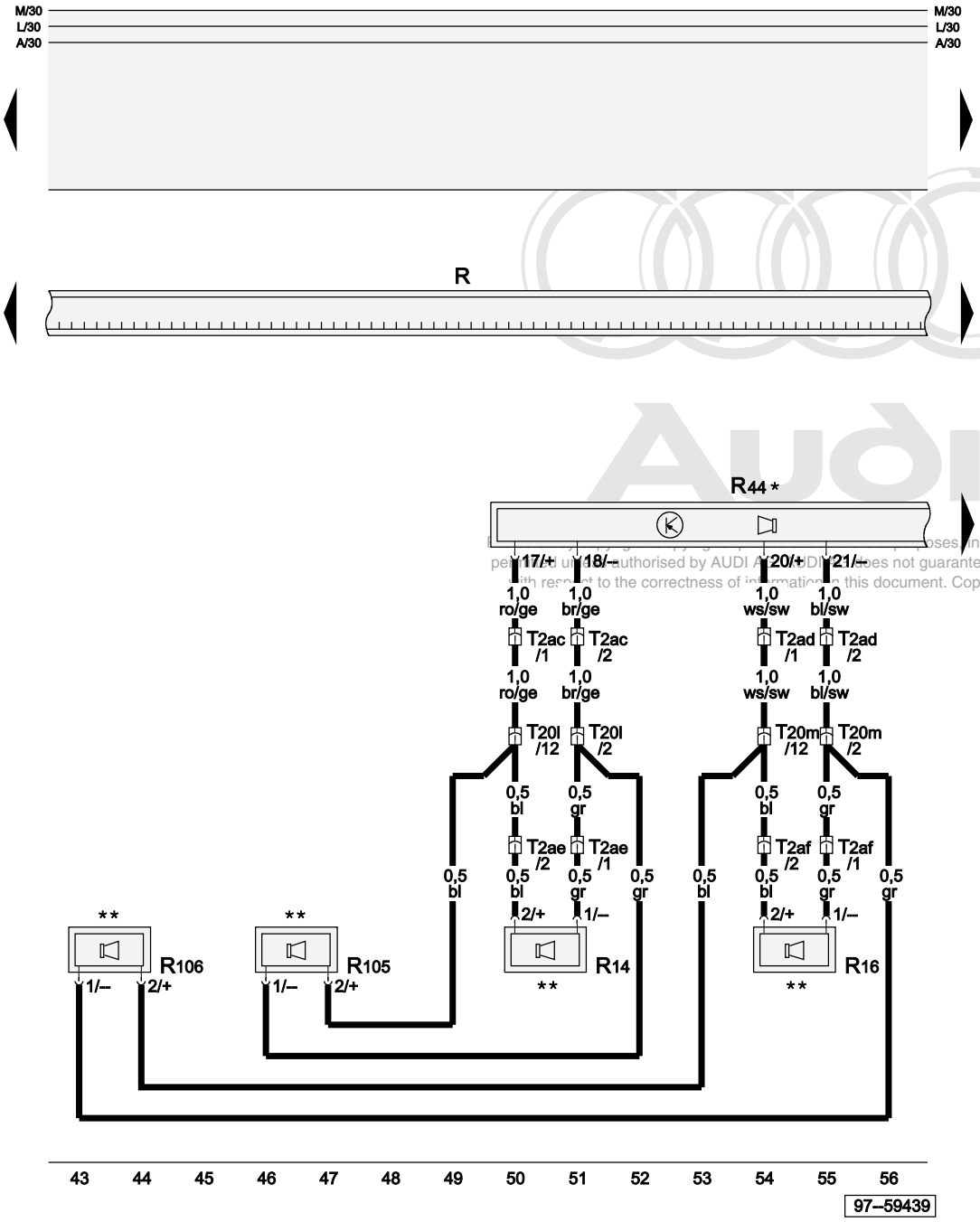


Rear loudspeaker without amplifier

R	Radio
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range and bass loudspeaker
R106	Rear right mid-range and bass loudspeaker
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T8k	8-pin connector, brown (connector B)
T20l	20-pin connector, black, door, B pillar, left
T20m	20-pin connector, black, door, B pillar, right
*	for models without amplifier only
**	depends on equipment (K8G)
***	depends on equipment (K8R)

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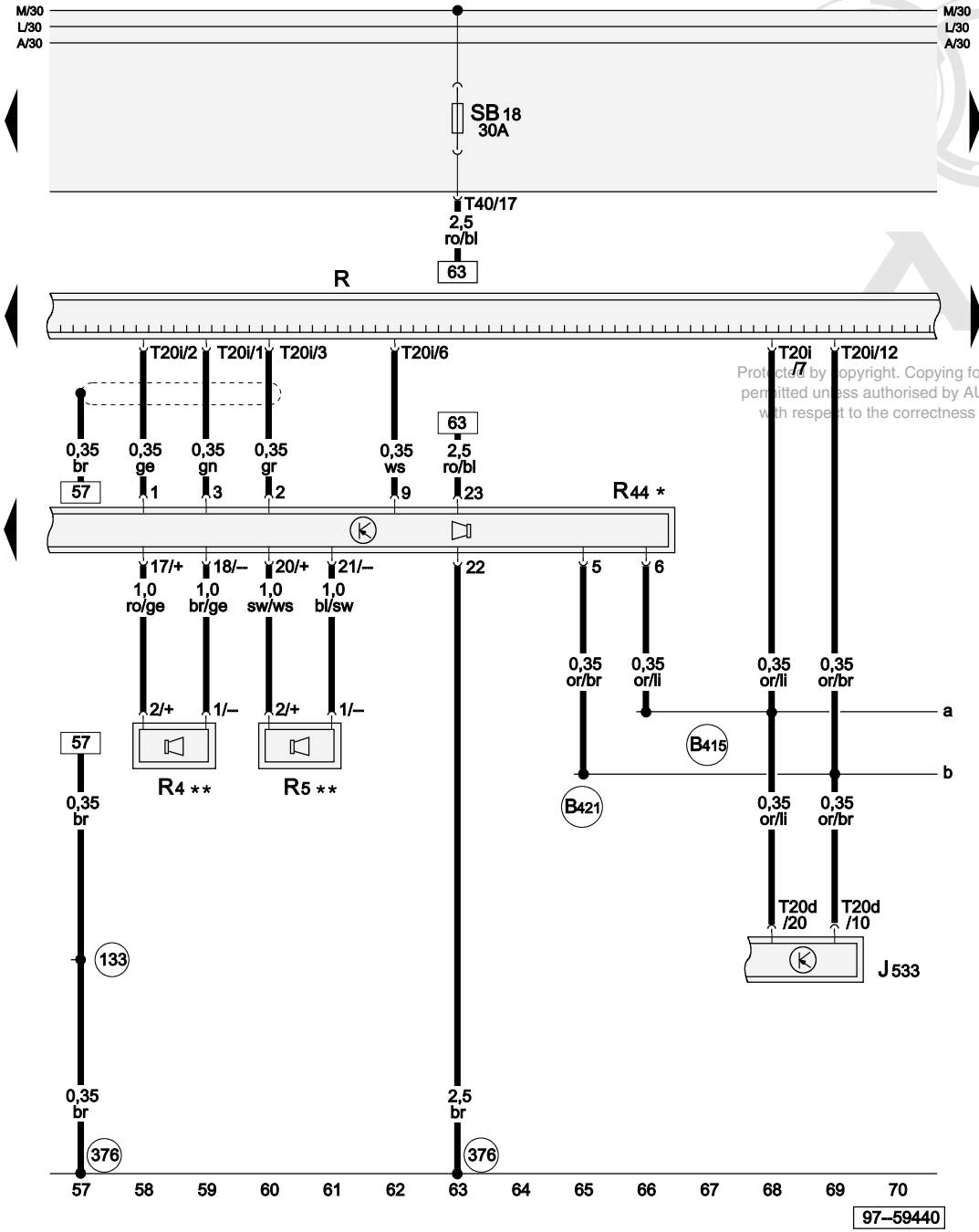


Audi
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Rear loudspeaker with amplifier

R	Radio
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range and bass loudspeaker
R106	Rear right mid-range and bass loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door, B pillar, left
T20m	20-pin connector, black, door, B pillar, right
*	for models with amplifier only
**	depends on equipment (K8R)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

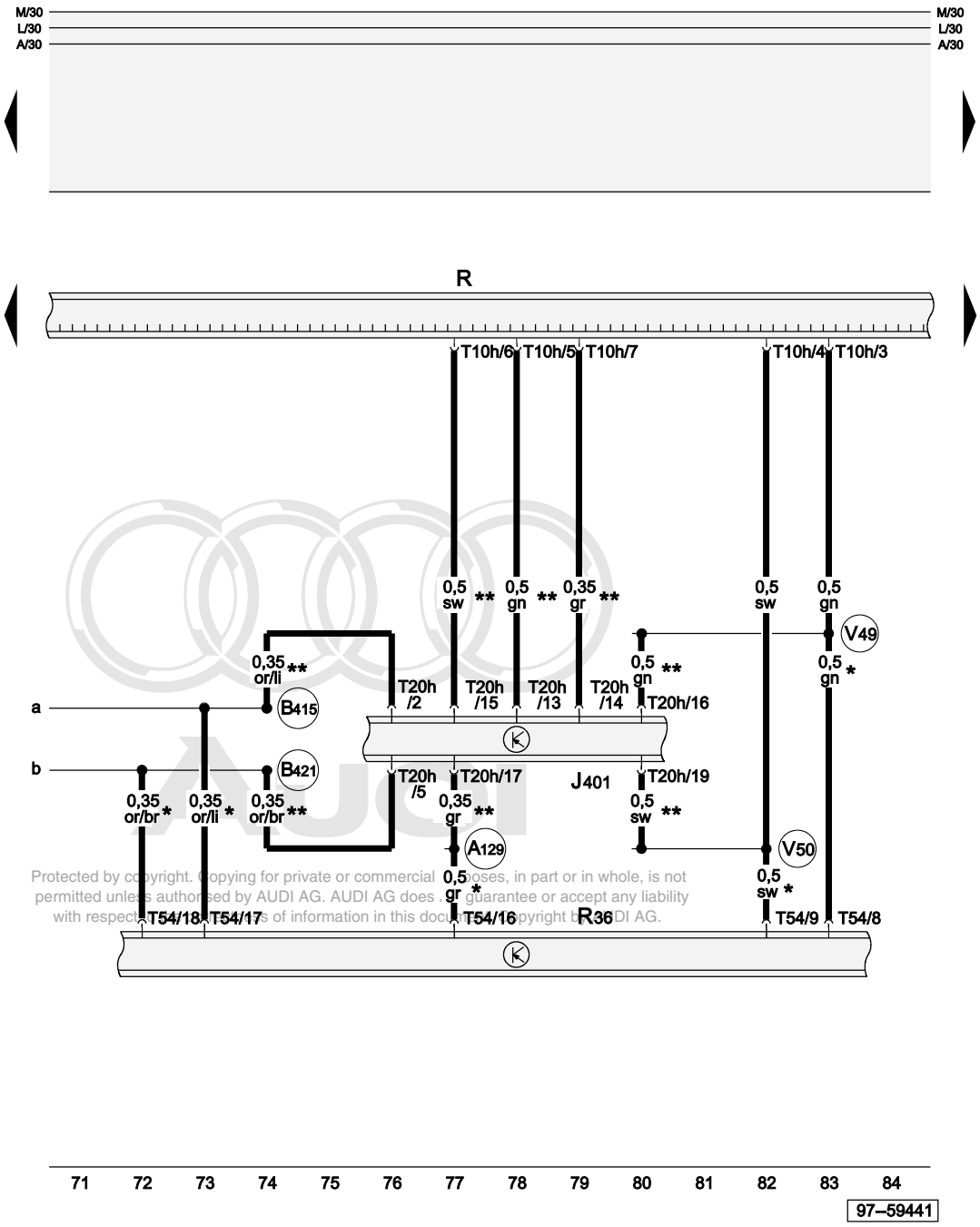


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Rear loudspeaker with amplifier, infotainment CAN bus

J533	Data bus diagnostic interface
R	Radio
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder
T20d	20-pin connector, yellow (connector A)
T20i	20-pin connector, black (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	for models with amplifier only
**	depends on equipment (K8G)

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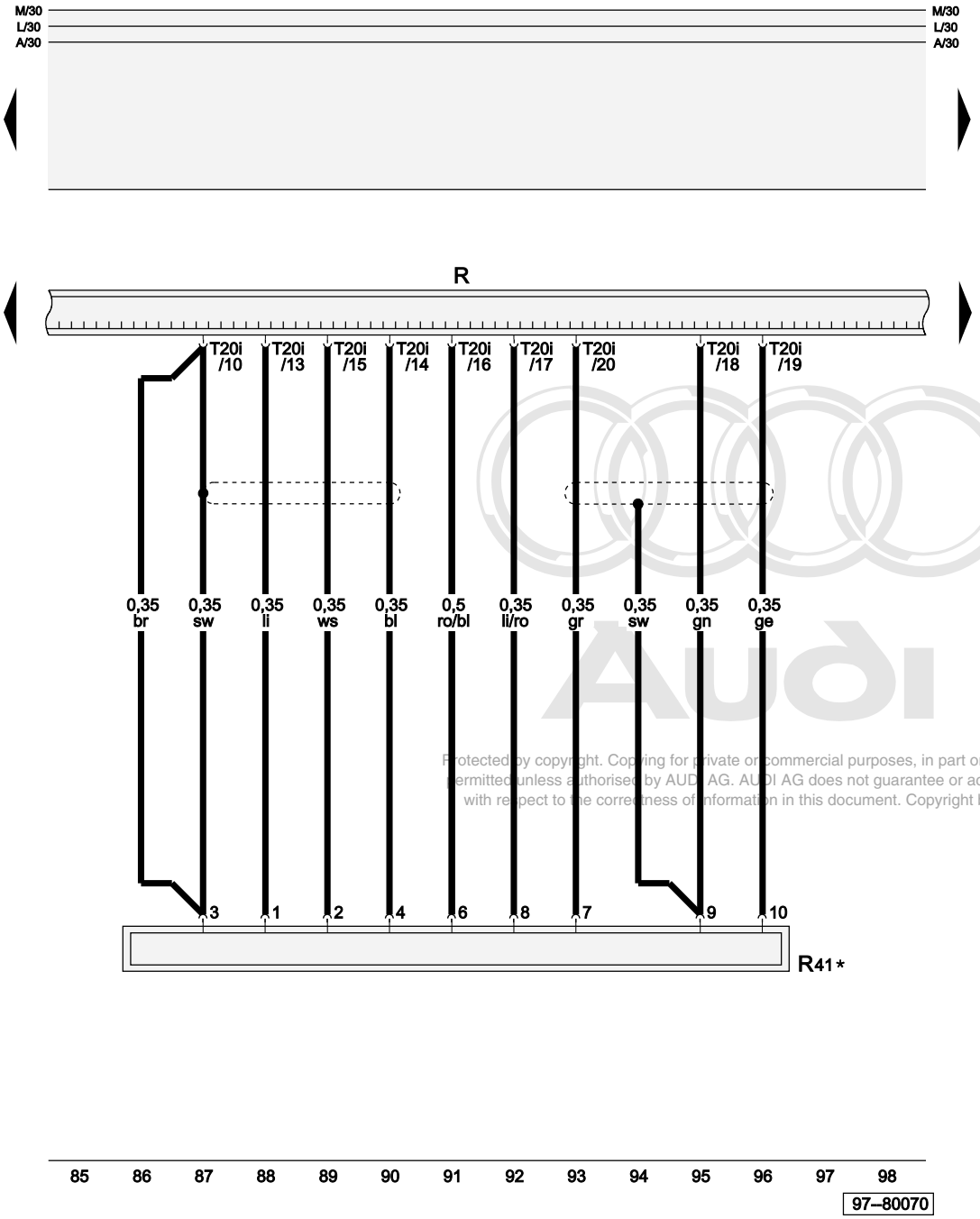


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Muting, infotainment CAN bus

J401	Navigation system with CD drive control unit
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T20h	20-pin connector, black (connector C)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF+), in communication wiring harness
V50	Connection (NF-), in communication wiring harness
*	for models with mobile telephone/ telephone only
**	for models with navigation system NS-LOW only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

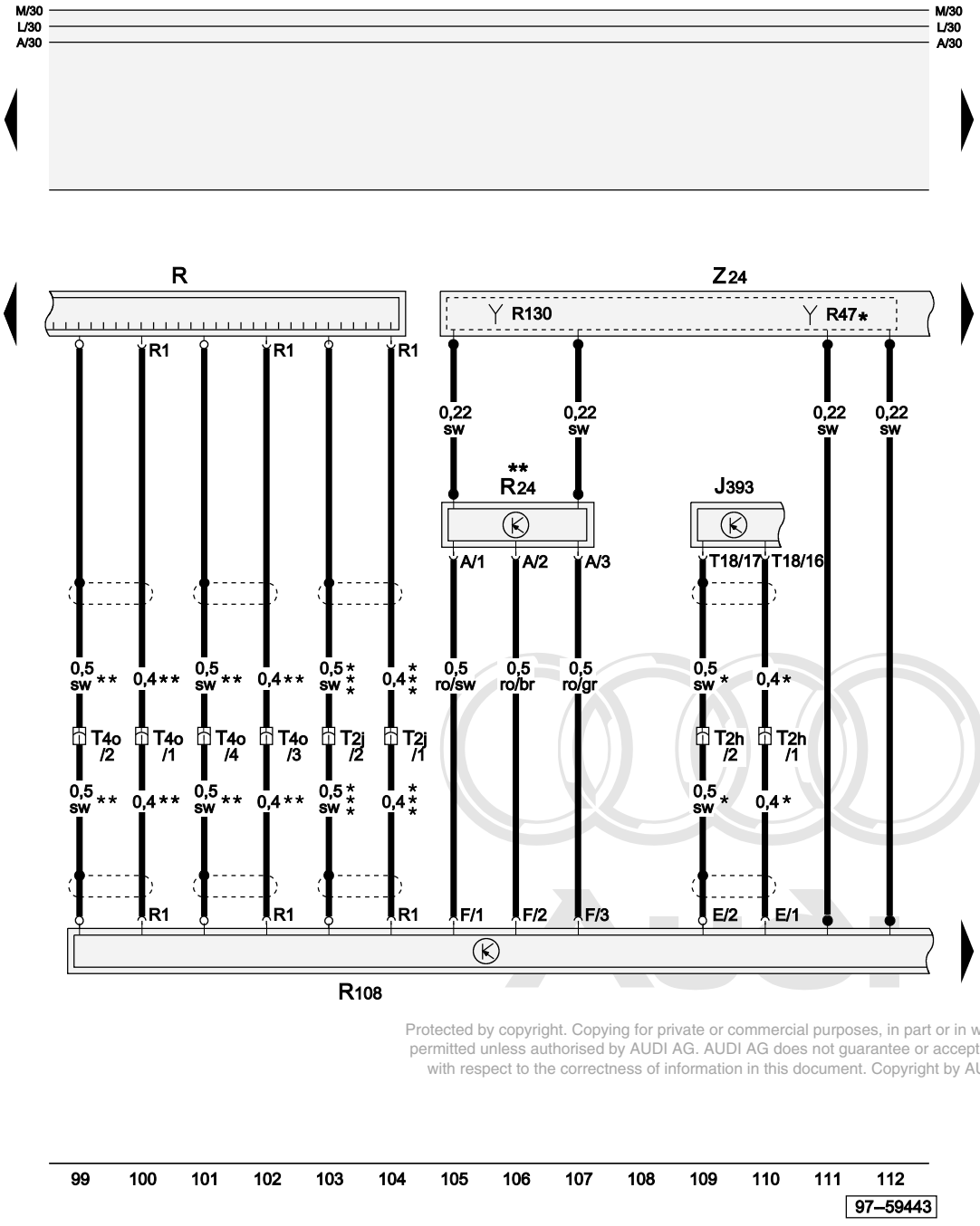


CD changer

R	Radio
R41	CD changer
T20i	20-pin connector, black (connector A)
*	for models with CD changer only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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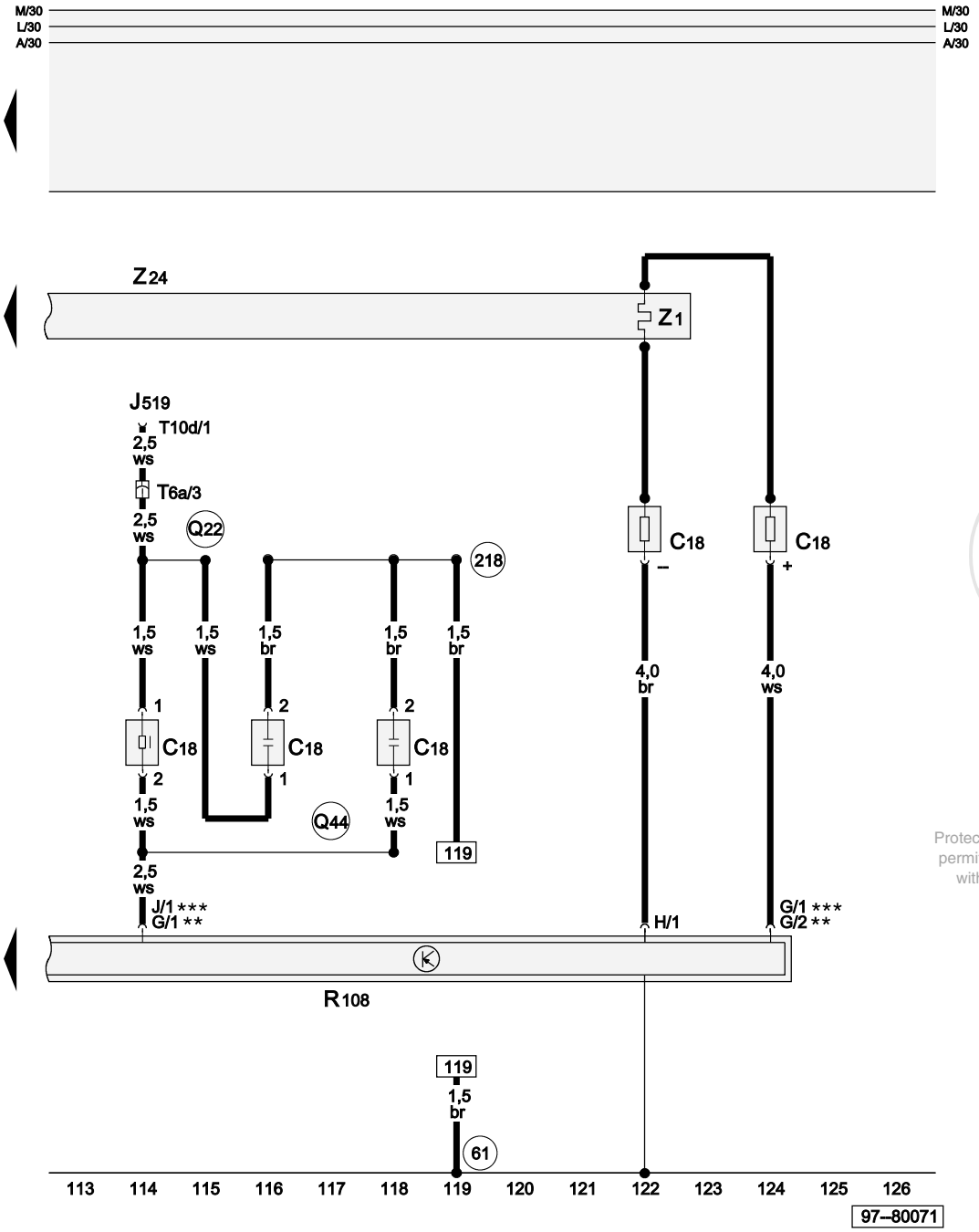


Left aerial module, rear window aerial 1

J393	Convenience system central control unit
R	Radio
R1	Aerial connection
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T2j	2-pin connector, near C-pillar right
T4o	4-pin connector, near C-pillar right
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only
**	for models with radio concert and symphony only
***	for models with radio chorus only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Left aerial module, heated rear window

C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness
**	for models with 3-door models only
***	for models with 5-door models only

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or	=	orange
rs	=	pink

Radio with Bose sound system

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

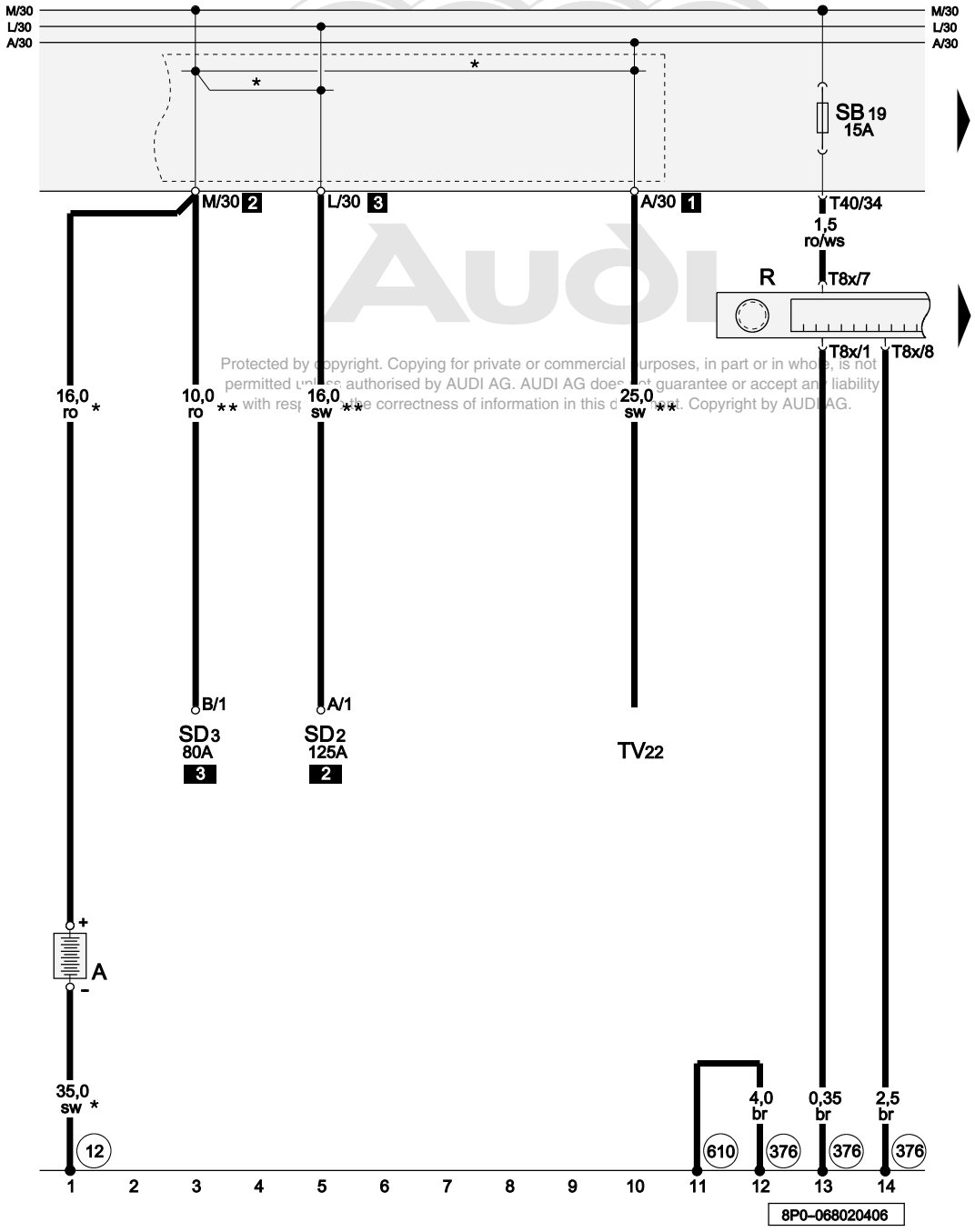
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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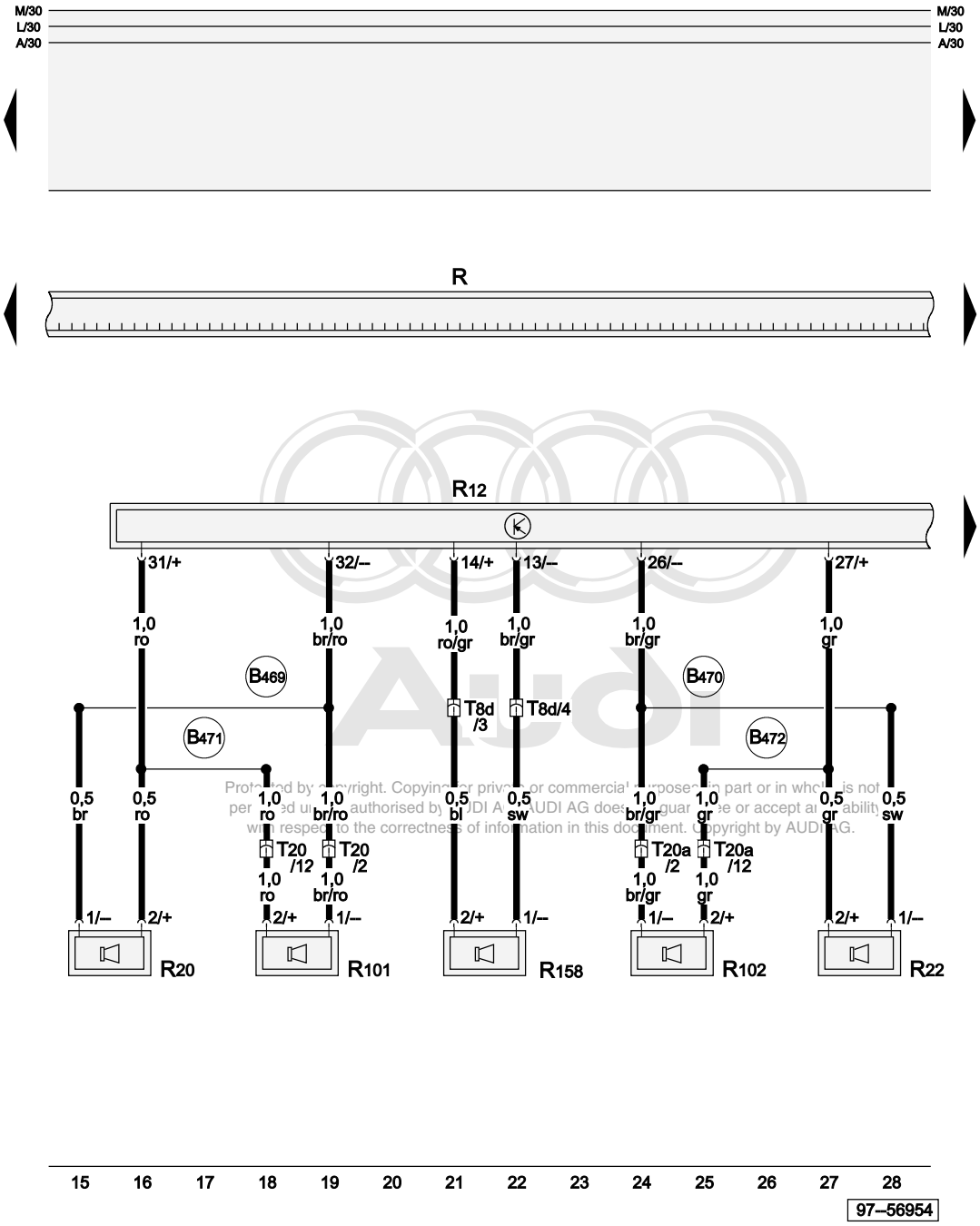


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Battery, fuses on fuse holder

A	Battery
R	Radio
SB19	Fuse 19 on fuse holder
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
T8x	8-pin connector, black (connector C)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
TV22	Terminal 30 wiring junction 2
(12)	Earth point, on left in engine compartment
(376)	Earth connection 11, in main wiring harness
(610)	Earth point (audio), under centre console, front
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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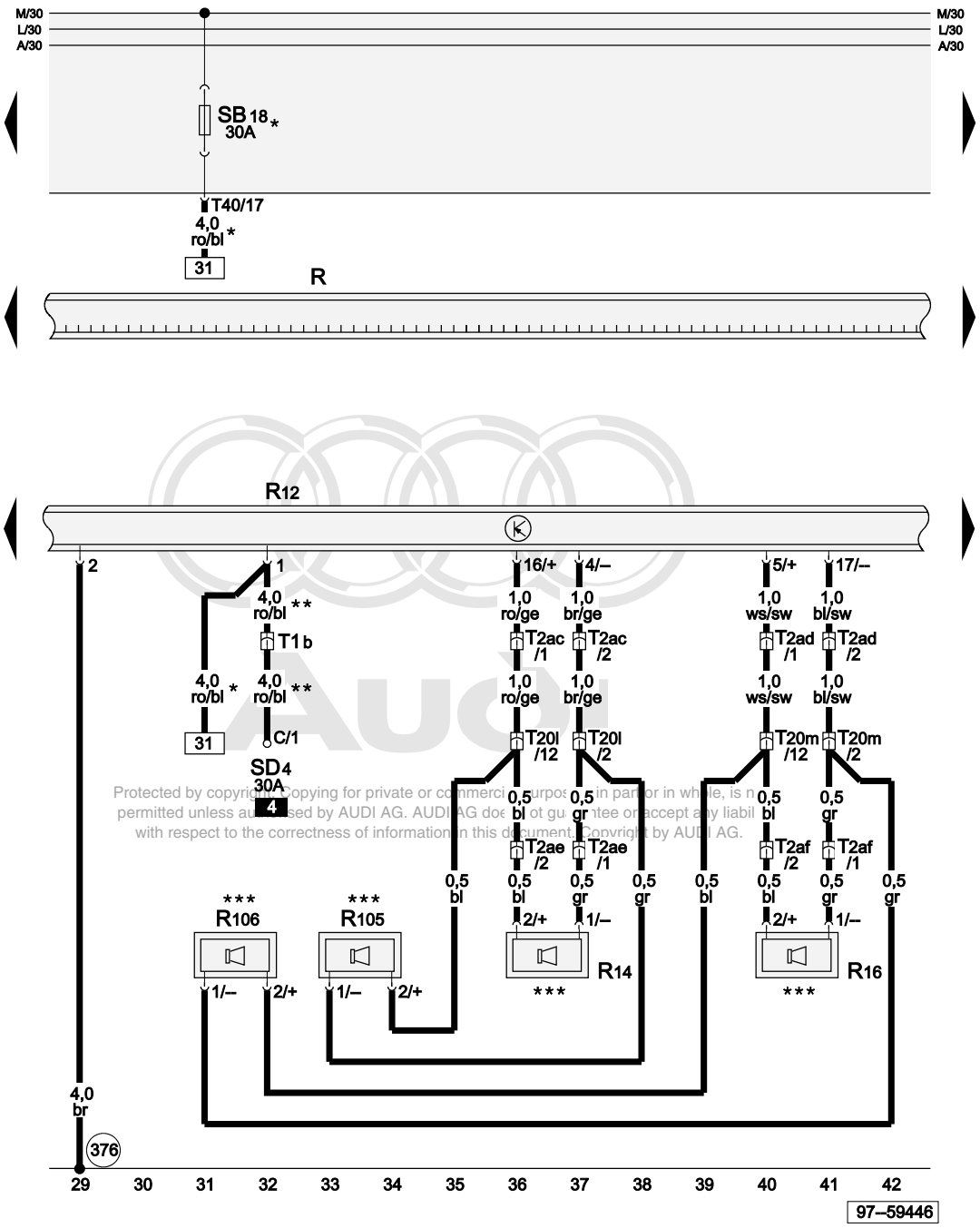


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Front loudspeaker

R	Radio
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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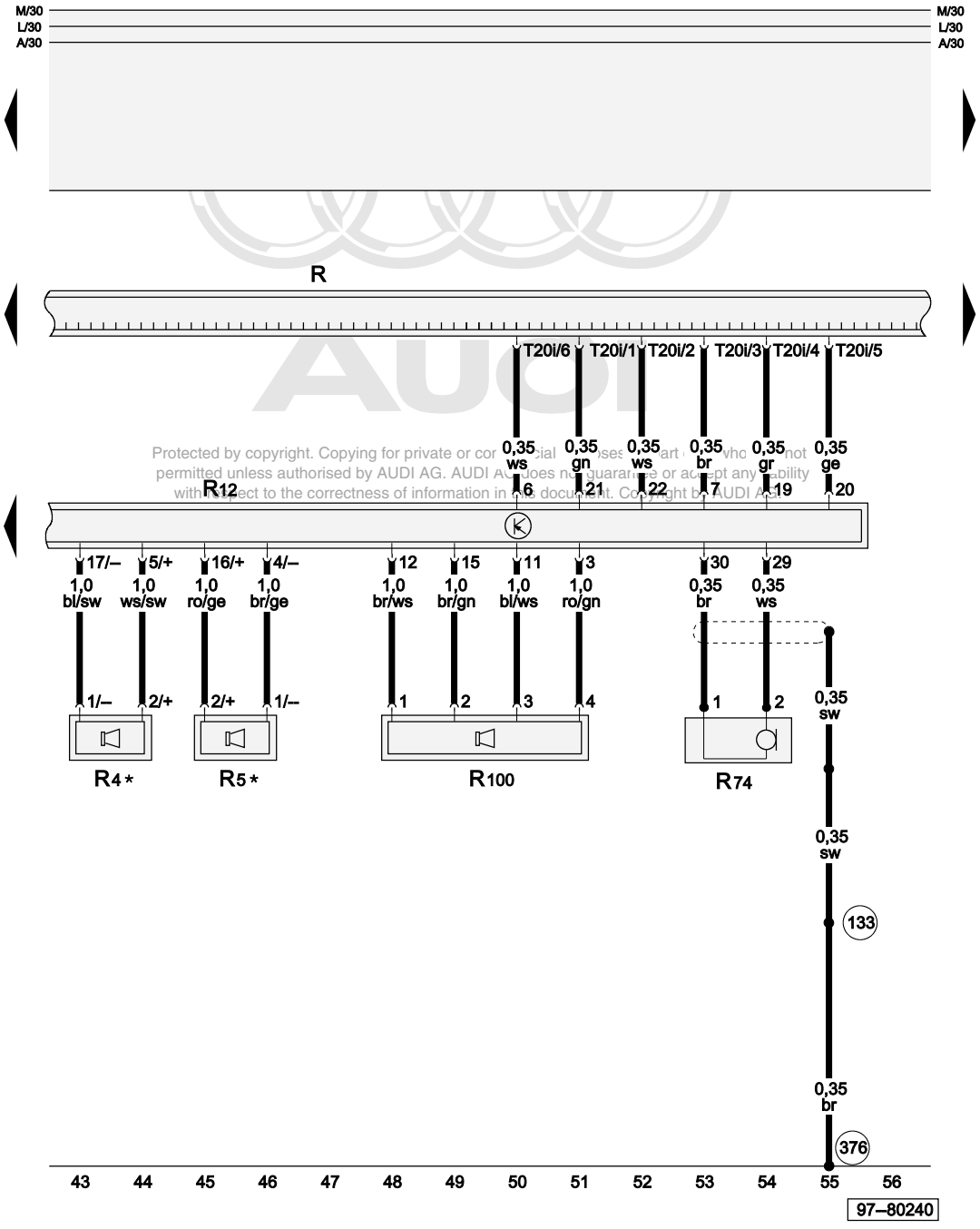


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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Rear loudspeaker

R	Radio
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range and bass loudspeaker
R106	Rear right mid-range and bass loudspeaker
SB18	Fuse 18 on fuse holder
SD4	Fuse 4 on fuse holder
T1b	1-pin connector, black, on left C-pillar
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door, B pillar, left
T20m	20-pin connector, black, door, B pillar, right
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only
***	depends on equipment (K8R)

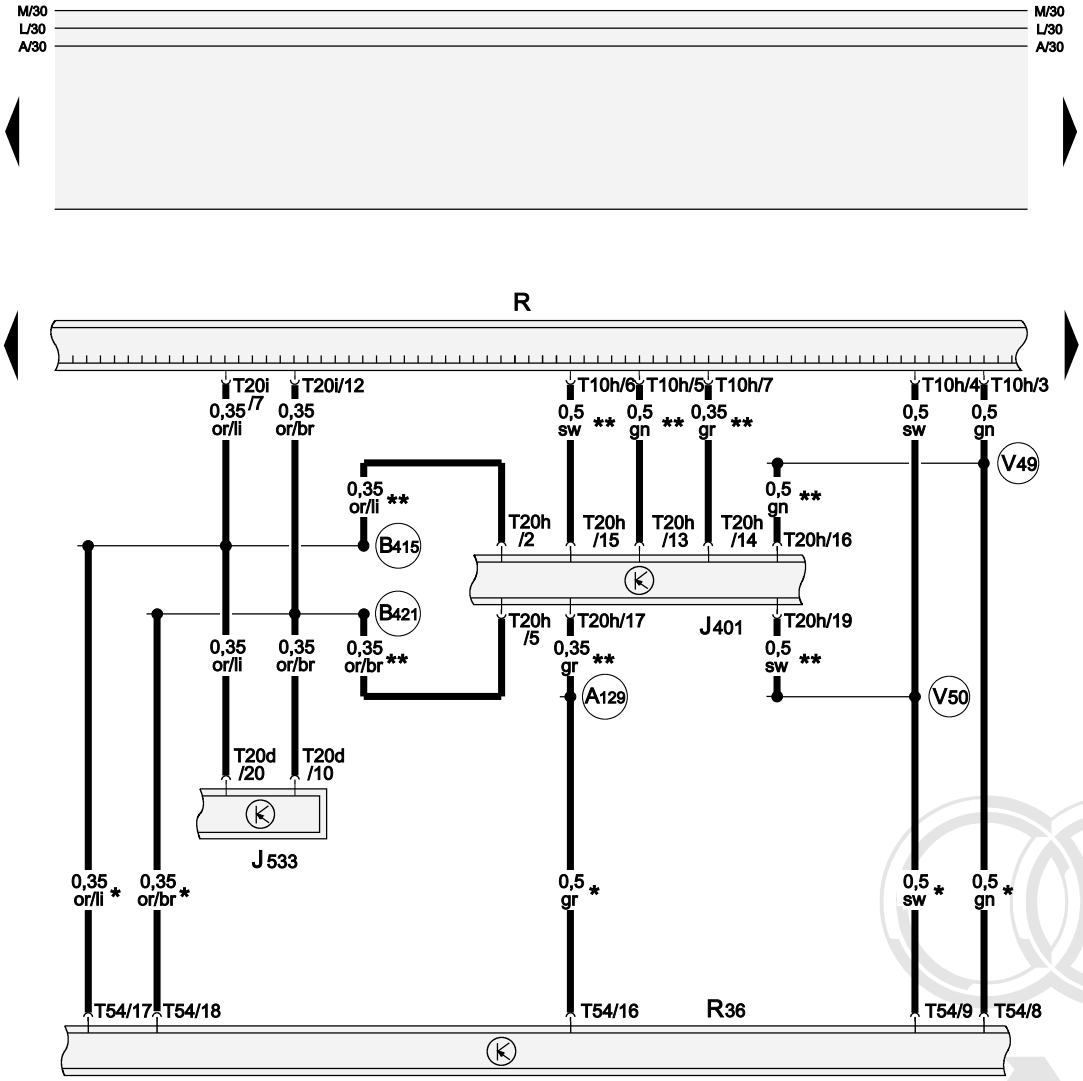


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Rear loudspeaker

R	Radio
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
T20i	20-pin connector, black (connector A)
(133)	Earth connection, in loudspeaker wiring harness
(376)	Earth connection 11, in main wiring harness
*	depends on equipment (K8G)

ws	=	white
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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

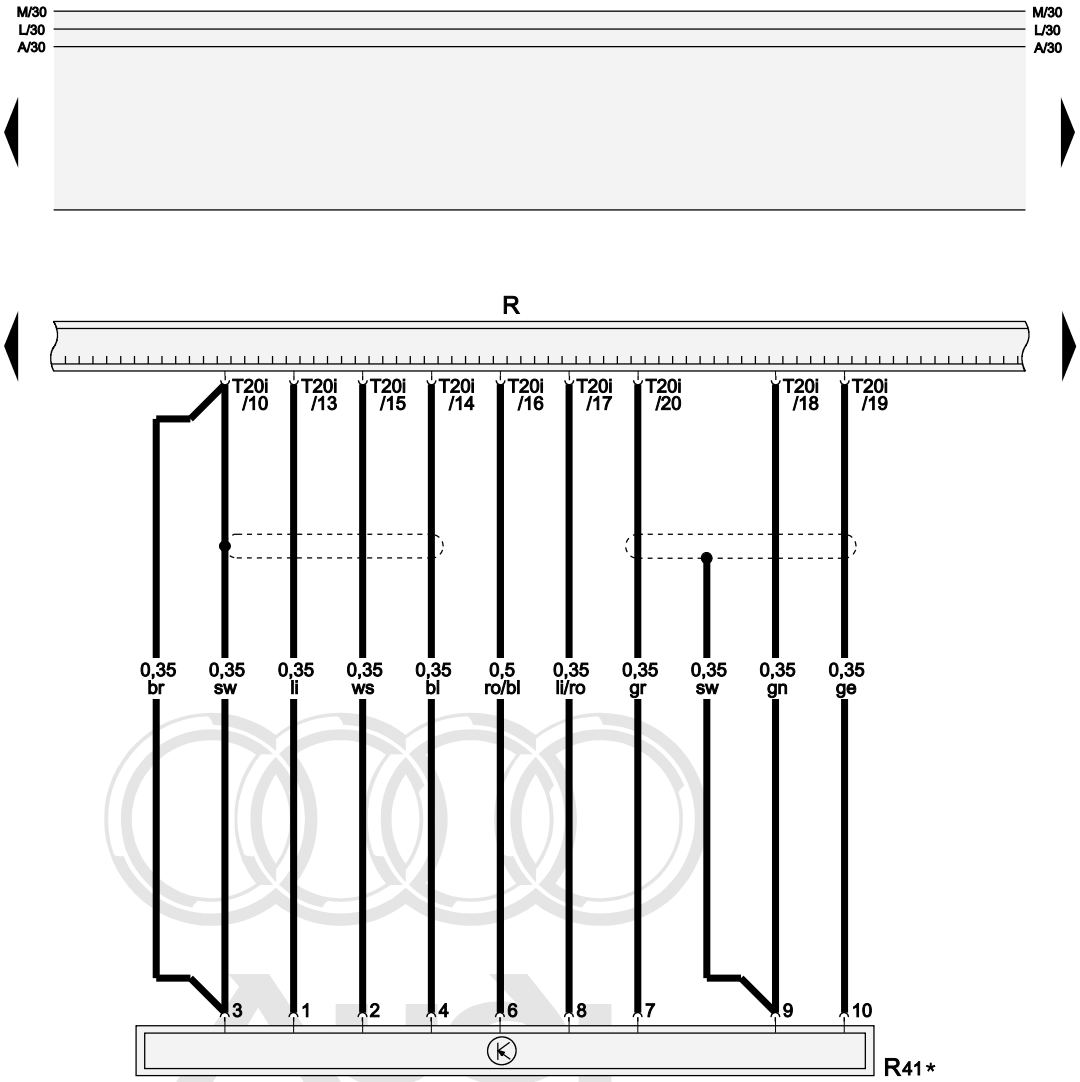


Muting, infotainment CAN bus

J401	Navigation system with CD drive control unit
J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T20d	20-pin connector, yellow (connector A)
T20h	20-pin connector, black (connector C)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF+), in communication wiring harness
V50	Connection (NF-), in communication wiring harness
*	for models with mobile telephone/ telephone only
**	for models with navigation system NS-LOW only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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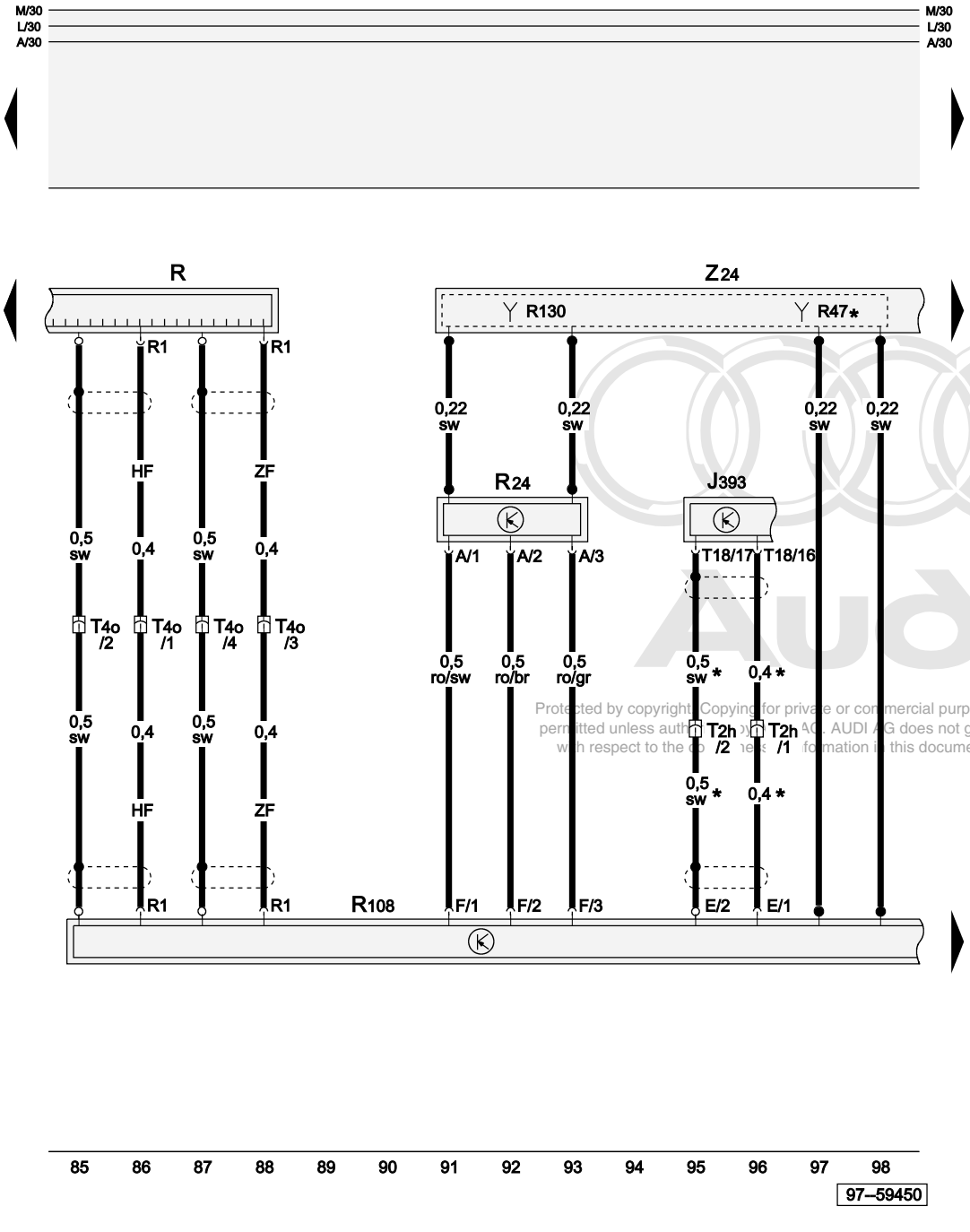


CD changer

R	Radio
R41	CD changer
T20i	20-pin connector, black (connector A)
*	for models with CD changer only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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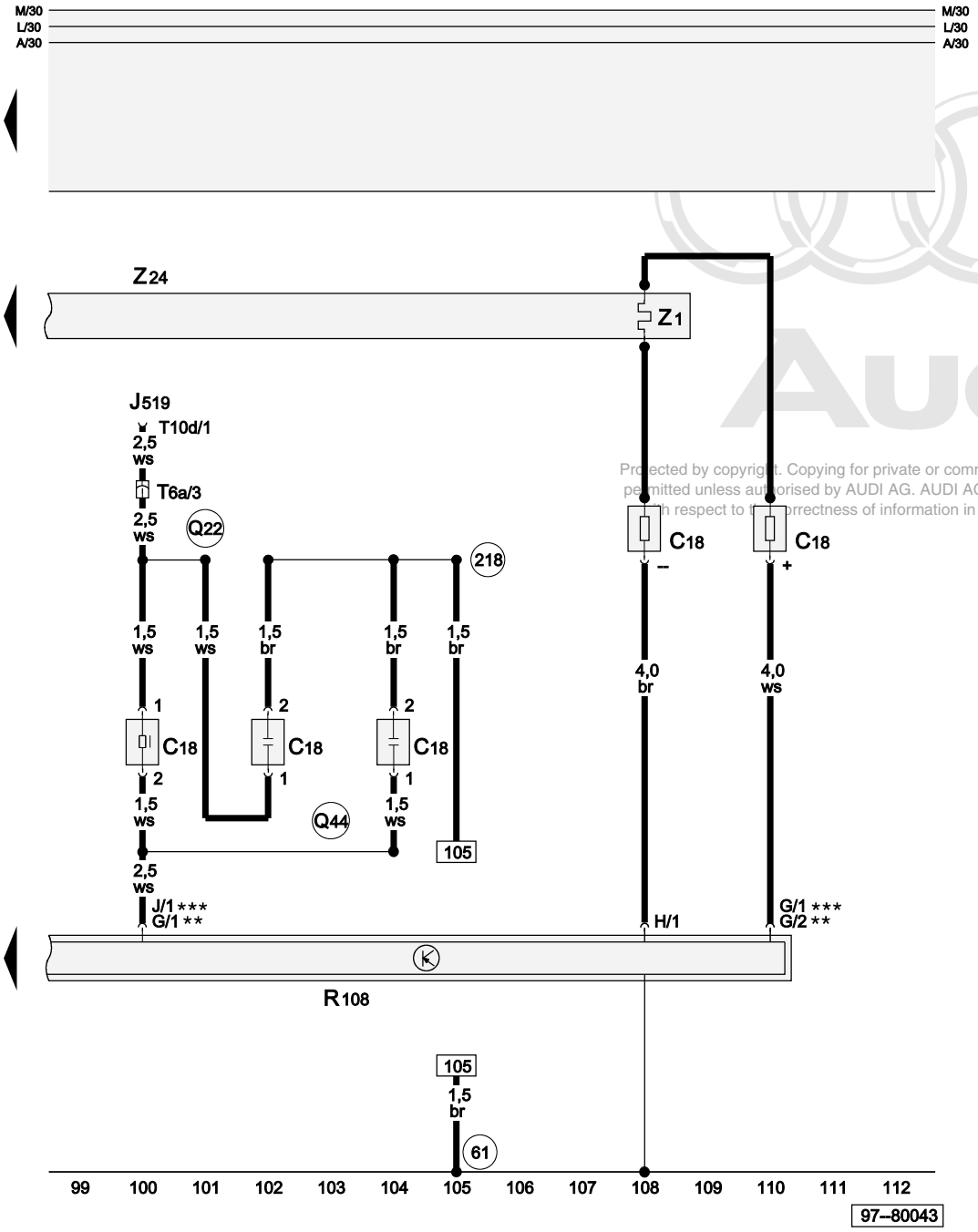


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Left aerial module, rear window aerial 1

J393	Convenience system central control unit
R	Radio
R1	Aerial connection
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Aerial module, left
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T4o	4-pin connector, near C-pillar right
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Left aerial module, heated rear window

C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness
**	for models with 3-door models only
***	for models with 5-door models only

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Radio and navigation system RNS-E without Bose sound system

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

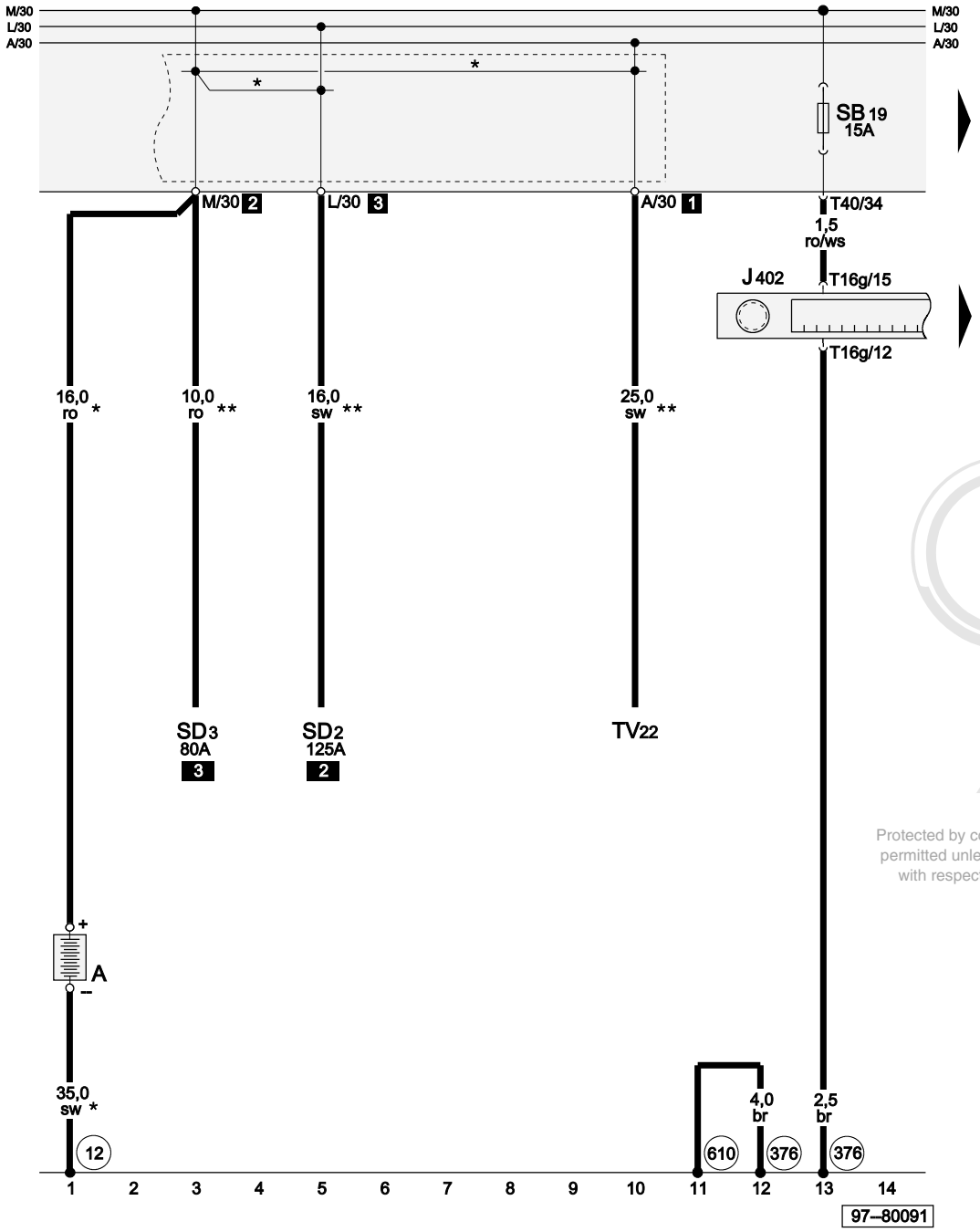
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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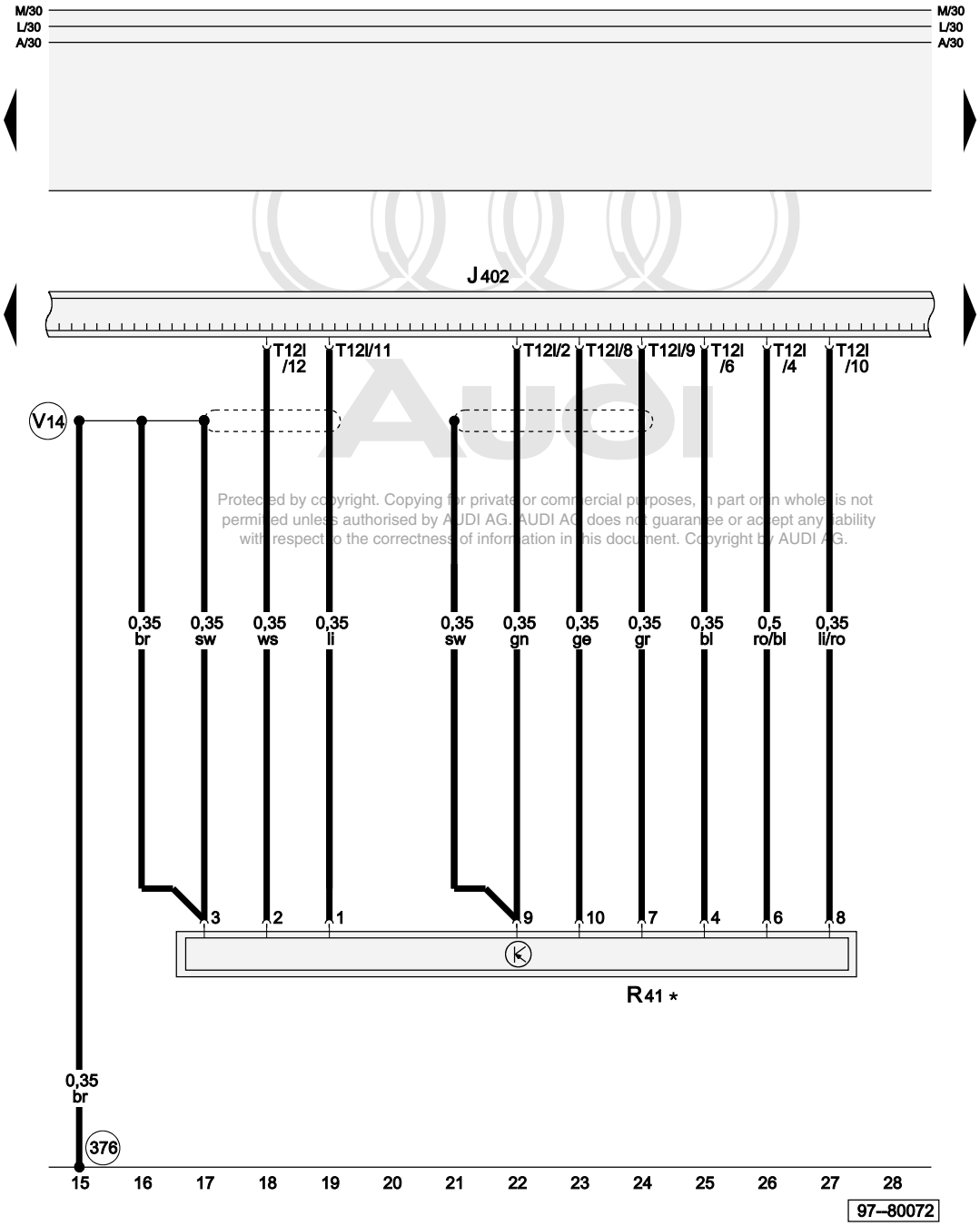


Battery, fuses on fuse holder

A	Battery
J402	Navigation operating electronics control unit
SB19	Fuse 19 on fuse holder
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
TV22	Terminal 30 wiring junction 2
12	Earth point, on left in engine compartment
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

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rs	=	pink

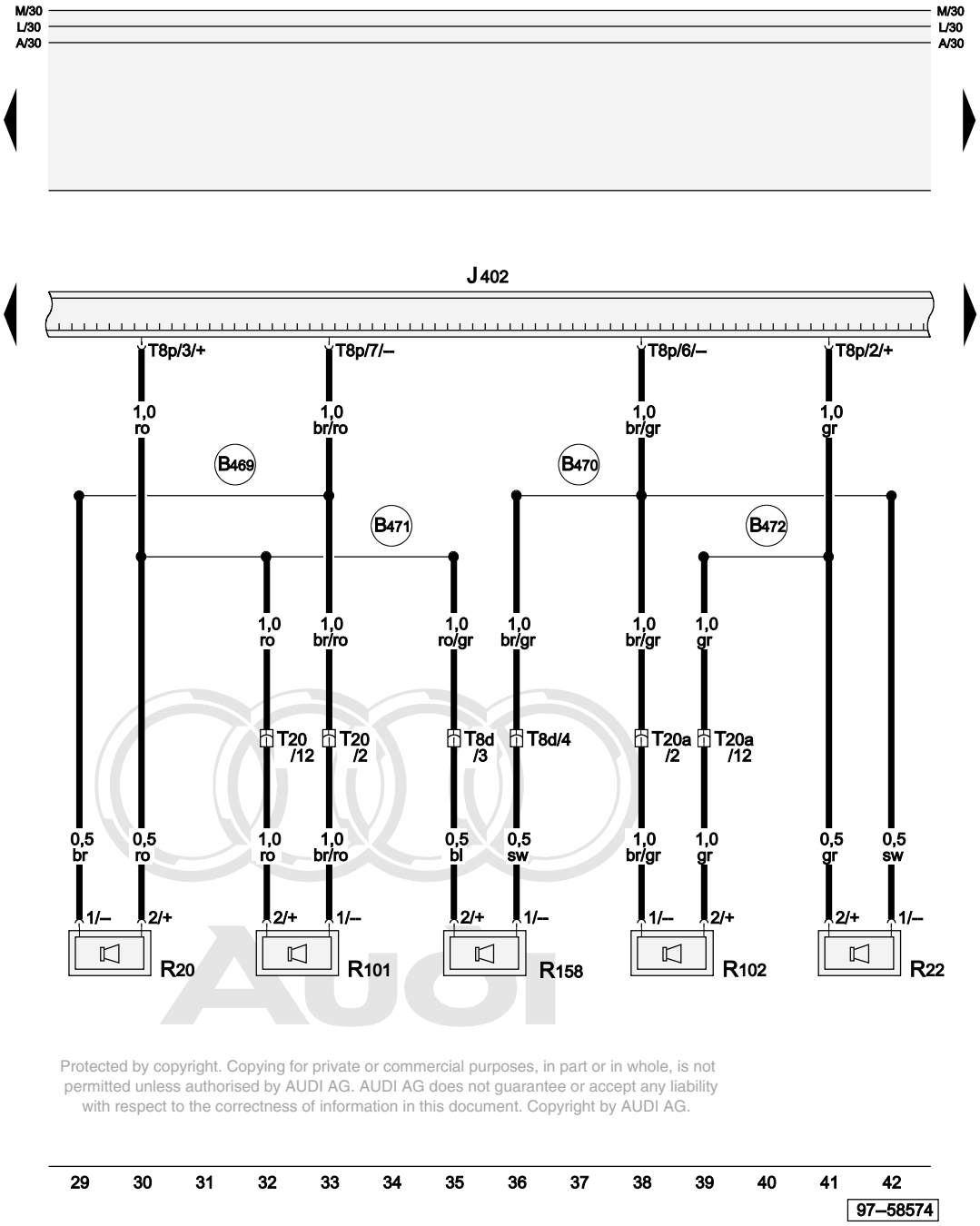


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CD changer

J402	Navigation operating electronics control unit
R41	CD changer
T12l	12-pin connector, blue (connector B)
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
*	for models with CD changer only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

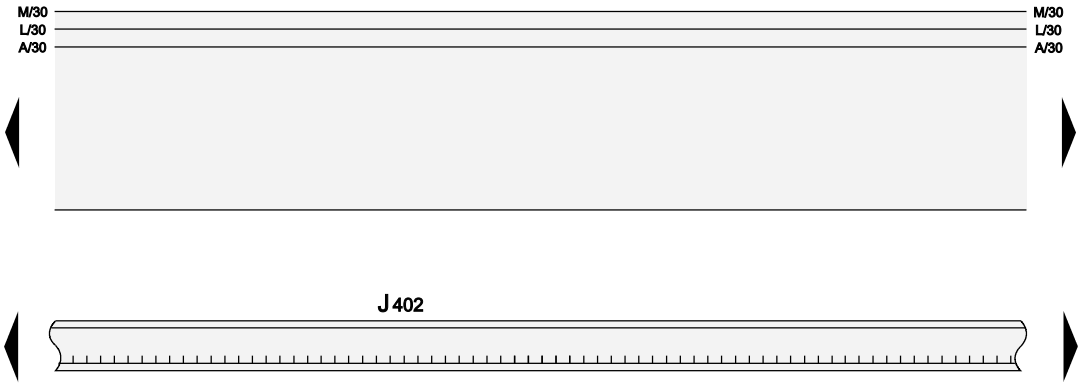


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Front loudspeaker

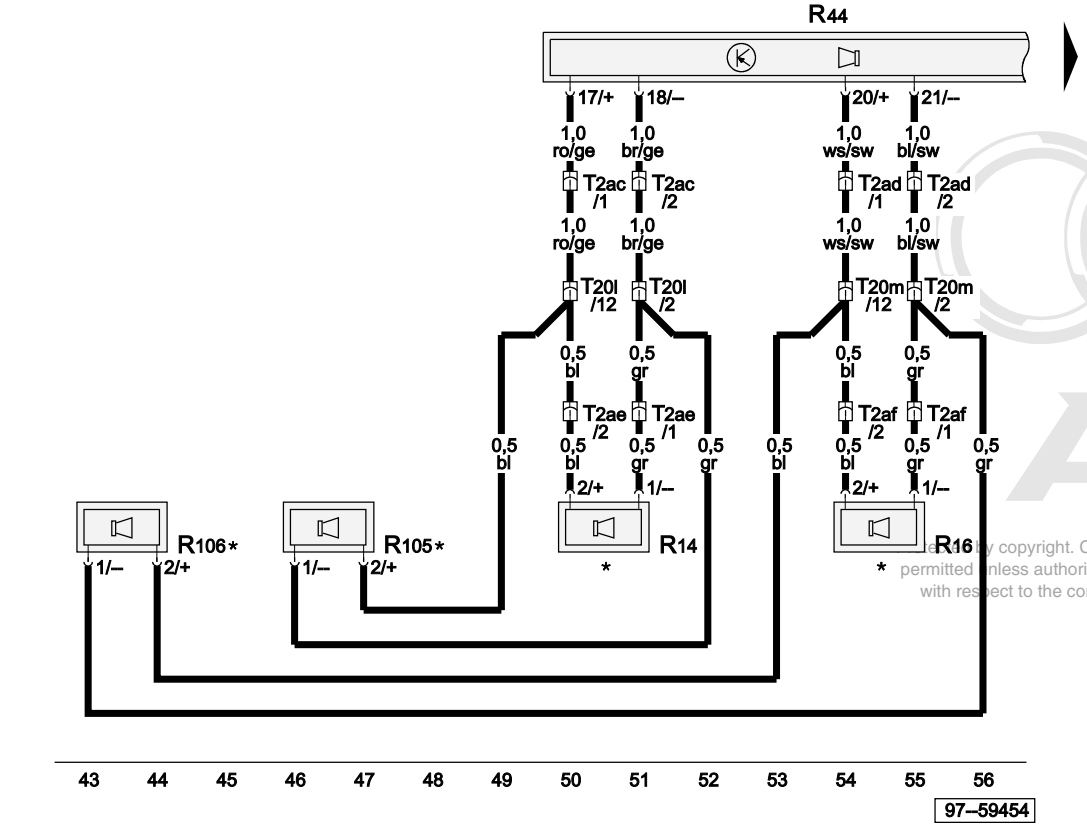
J402	Navigation operating electronics control unit
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8p	8-pin connector, brown (connector A)
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Rear loudspeaker with amplifier

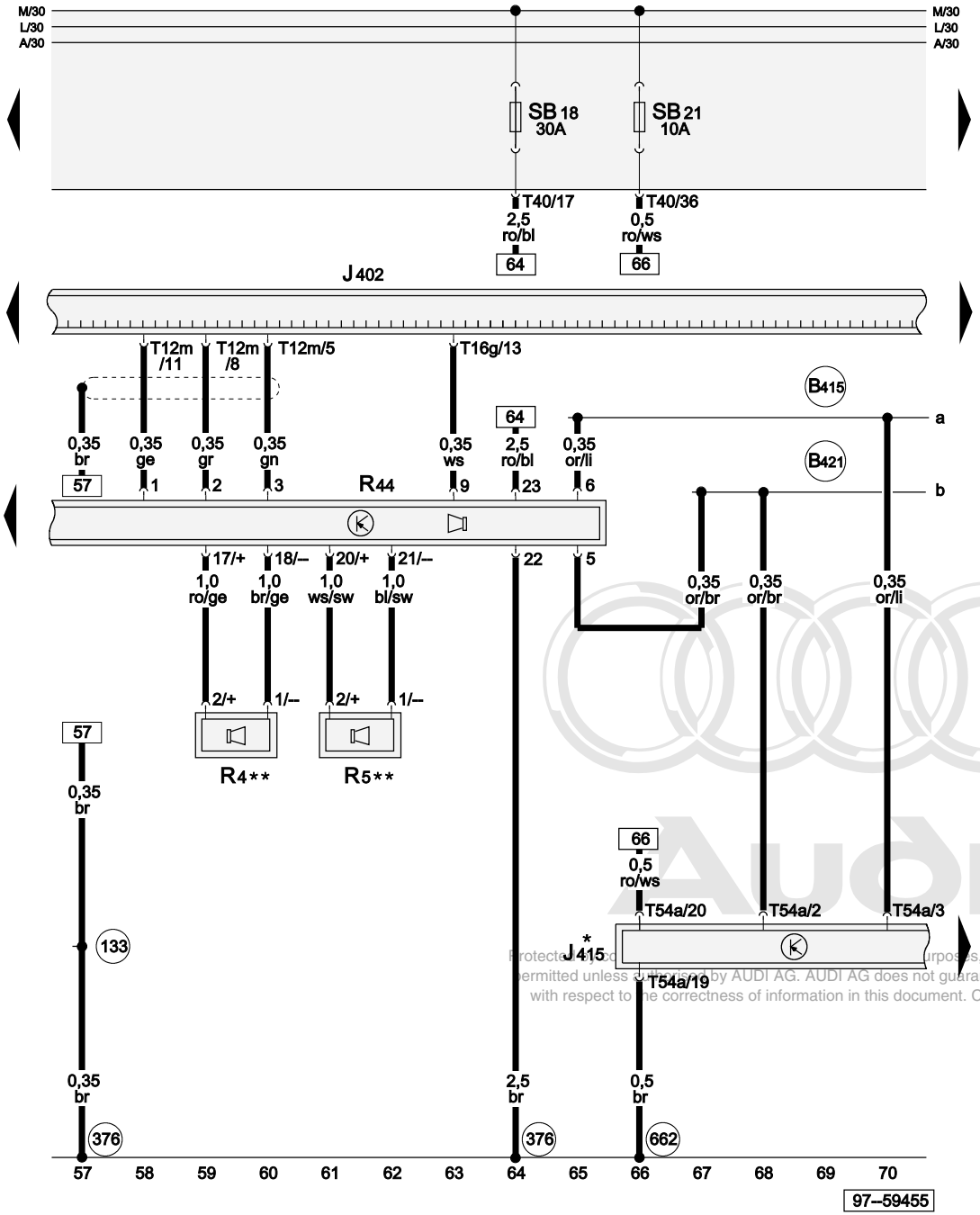
J402	Navigation operating electronics control unit
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range and bass loudspeaker
R106	Rear right mid-range and bass loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door, B pillar, left
T20m	20-pin connector, black, door, B pillar, right
*	depends on equipment (K8R)



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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Audi

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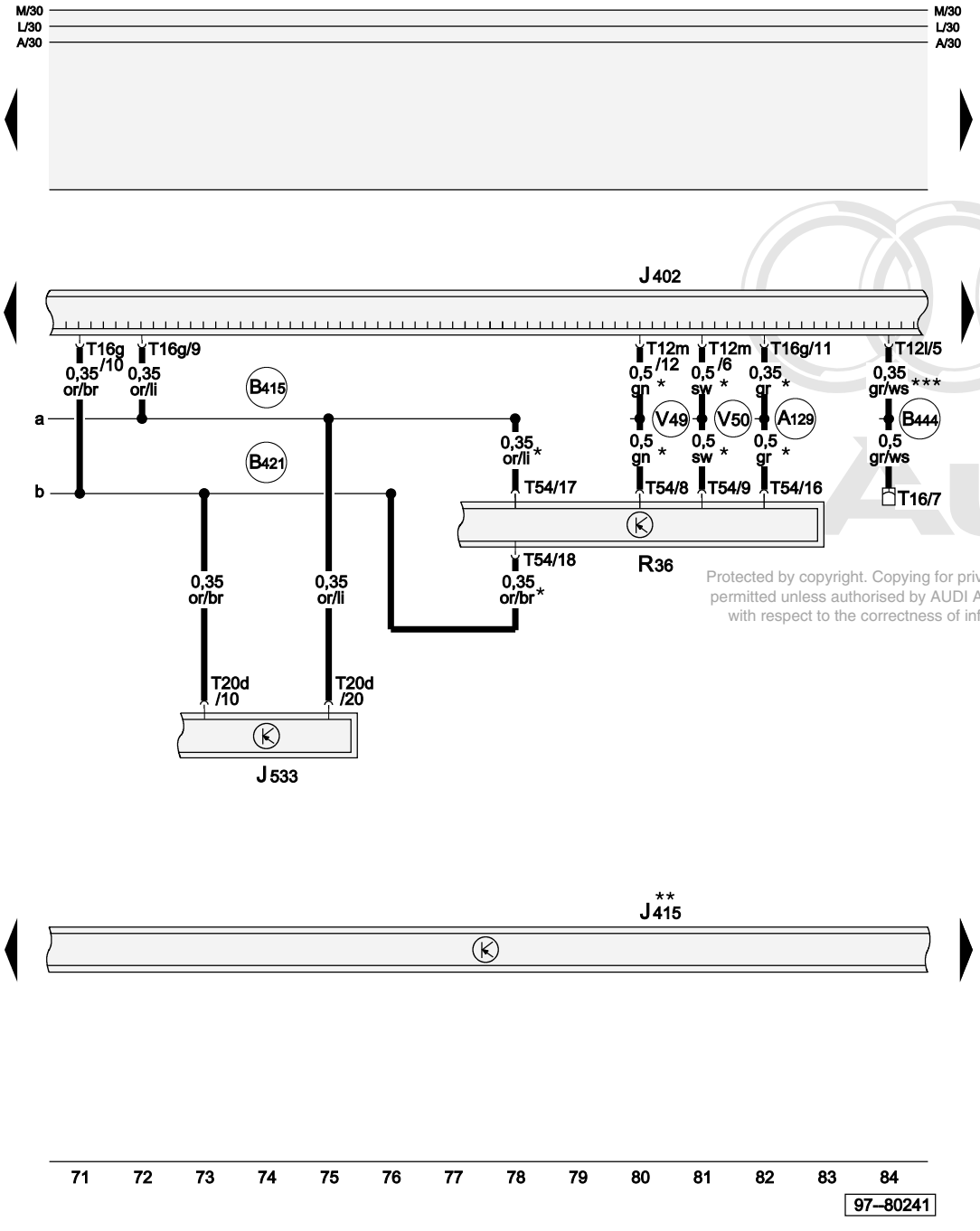


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gr = grey
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or = orange
rs = pink

Rear loudspeaker with amplifier, infotainment CAN bus

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder
SB21	Fuse 21 on fuse holder
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T54a	54-pin connector, black (connector A)
(133)	Earth connection, in loudspeaker wiring harness
(376)	Earth connection 11, in main wiring harness
(662)	Earth point, rear left side panel
(B415)	Connection 1 (infotainment CAN bus, high), in main wiring harness
(B421)	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	for models with TV tuner only
**	depends on equipment (K8G)

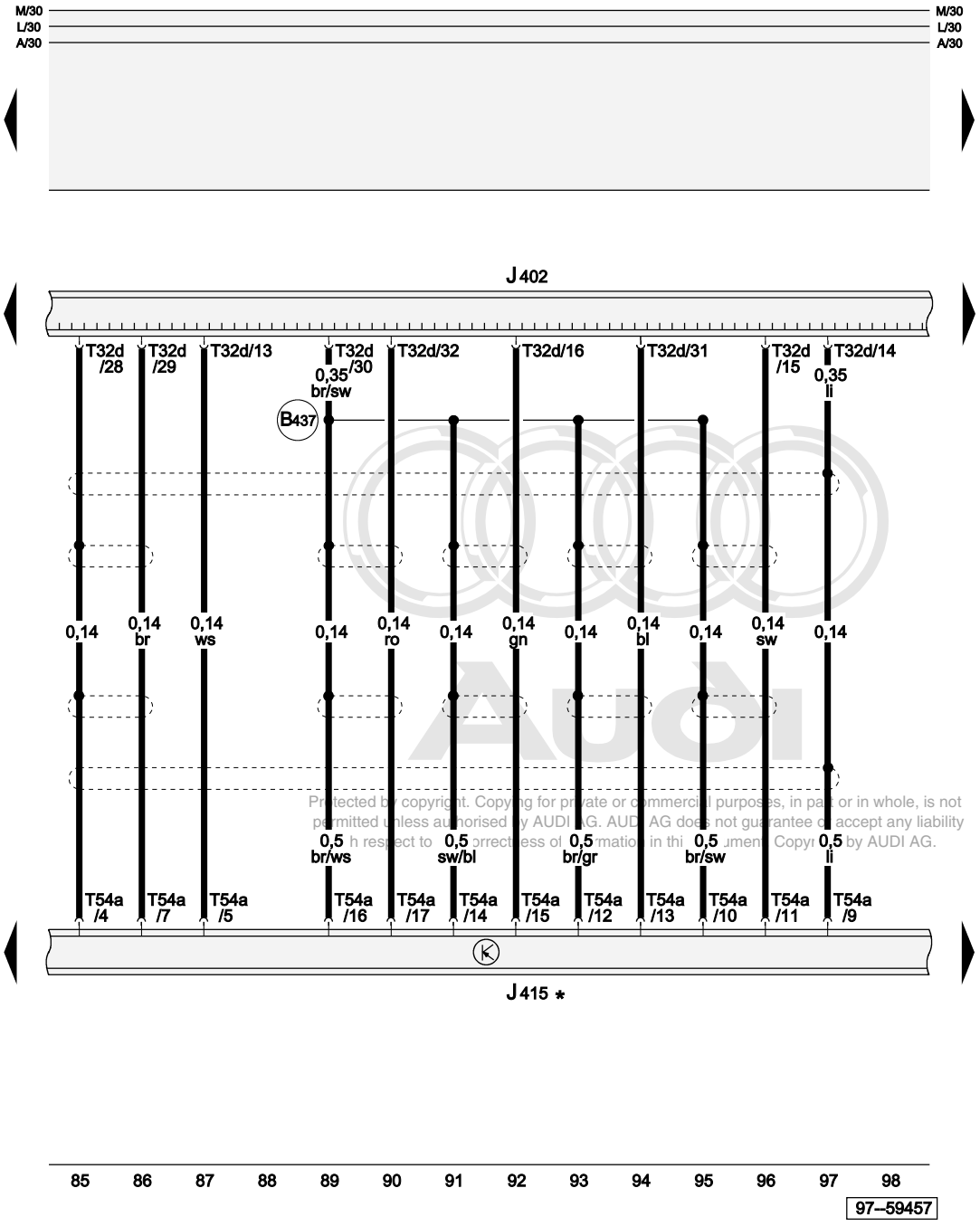


Muting, infotainment CAN bus

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
J533	Data bus diagnostic interface
R36	Telephone transmitter and receiver unit
T12l	12-pin connector, blue (connector B)
T12m	12-pin connector, black (connector C, connector locking green)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
V49	Connection (NF+), in communication wiring harness
V50	Connection (NF-), in communication wiring harness
*	for models with mobile telephone/ telephone only
**	for models with TV tuner only
***	No longer fitted, phased-in modification

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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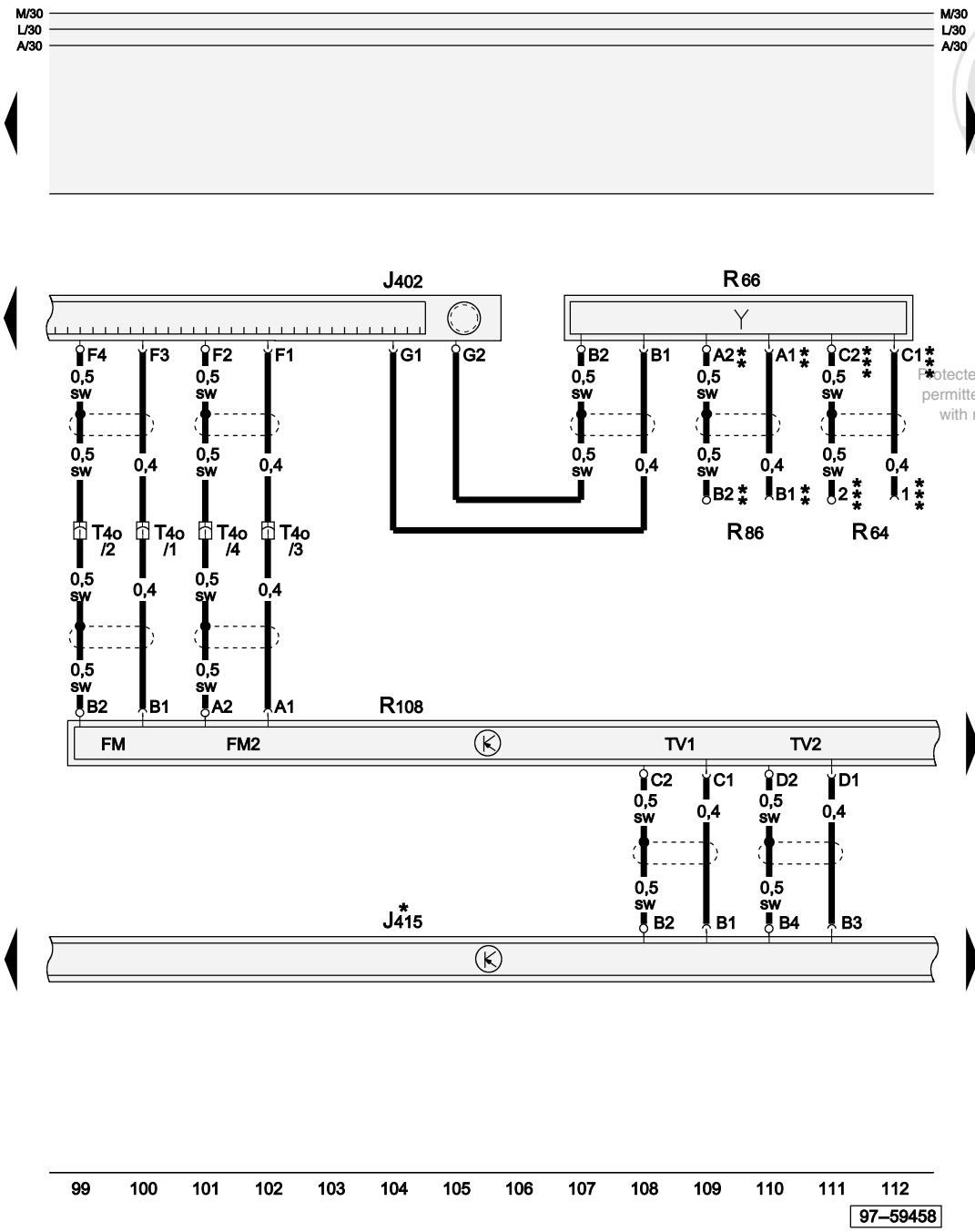


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Navigation system tuner for TV

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
T32d	32-pin connector, grey (connector E)
T54a	54-pin connector, black (connector A)
B437	Connection 1 (GPS), in main wiring harness
*	for models with TV tuner only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

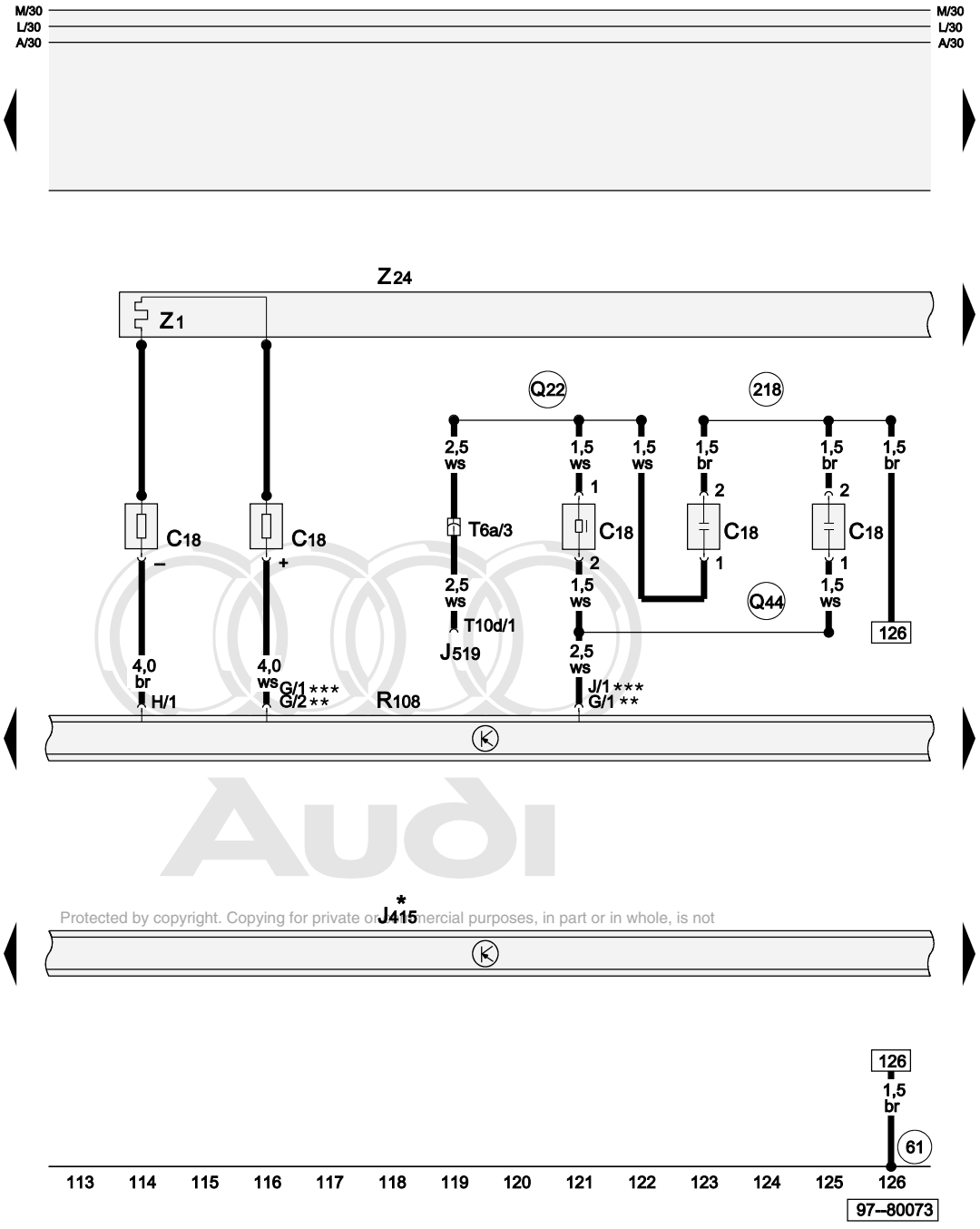


Left aerial module, telephone, navigation system and auxiliary heater aerial

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R108	Aerial module, left
R64	Remote control receiver for auxiliary heating
R66	Telephone, navigation system and auxiliary heater aerial
R86	Aerial amplifier for mobile telephone
T4o	4-pin connector, near C-pillar right
*	for models with TV tuner only
**	for models with preparation for mobile telephone only
***	for models with auxiliary heating only

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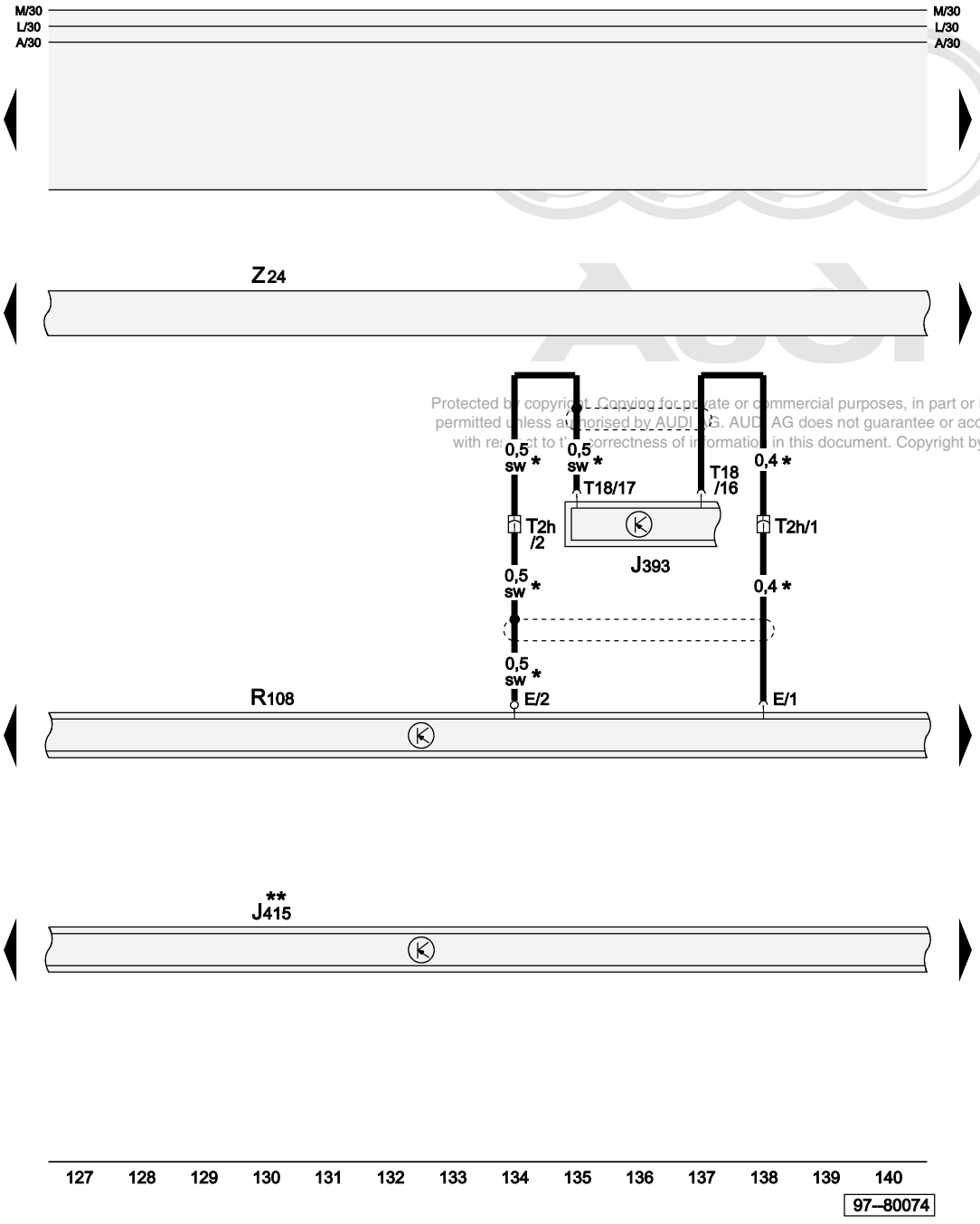


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Left aerial module, heated rear window with window aerial

C18	Window aerial suppression filter
J415	Navigation system tuner for TV
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point in left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness
*	for models with TV tuner only
**	for models with 3-door models only
***	for models with 5-door models only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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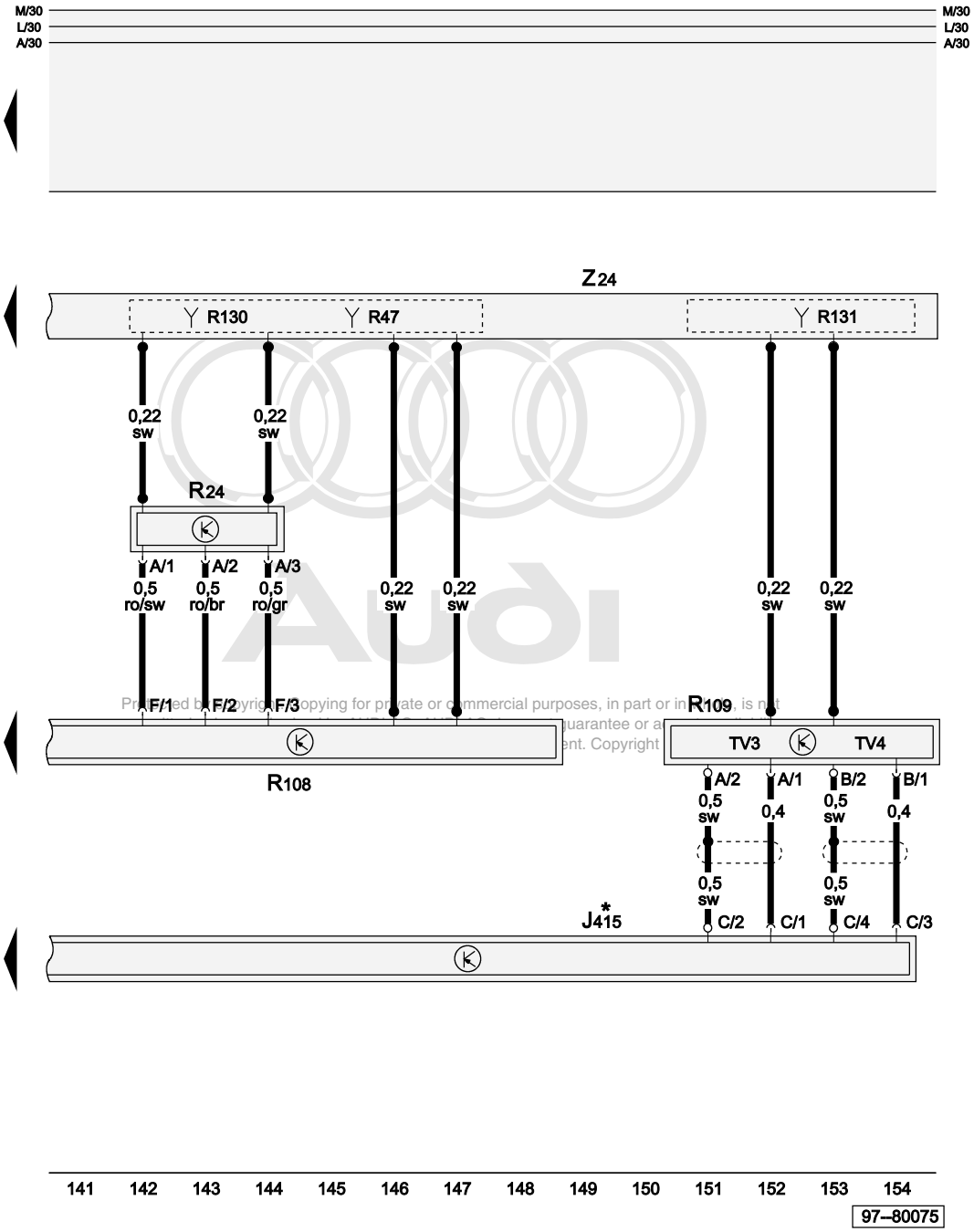


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Left aerial module, convenience system central control unit

J393	Convenience system central control unit
J415	Navigation system tuner for TV
R108	Left aerial module
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only
**	for models with TV tuner only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Rear window aerial 1, rear window aerial 2

J415	Navigation system tuner for TV
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R109	Right aerial module
R130	Rear window aerial 1
R131	Rear window aerial 2
Z24	Heated rear window with window aerial
*	for models with TV tuner only

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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rs	=	pink

Radio and navigation system RNS-E with Bose sound system

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

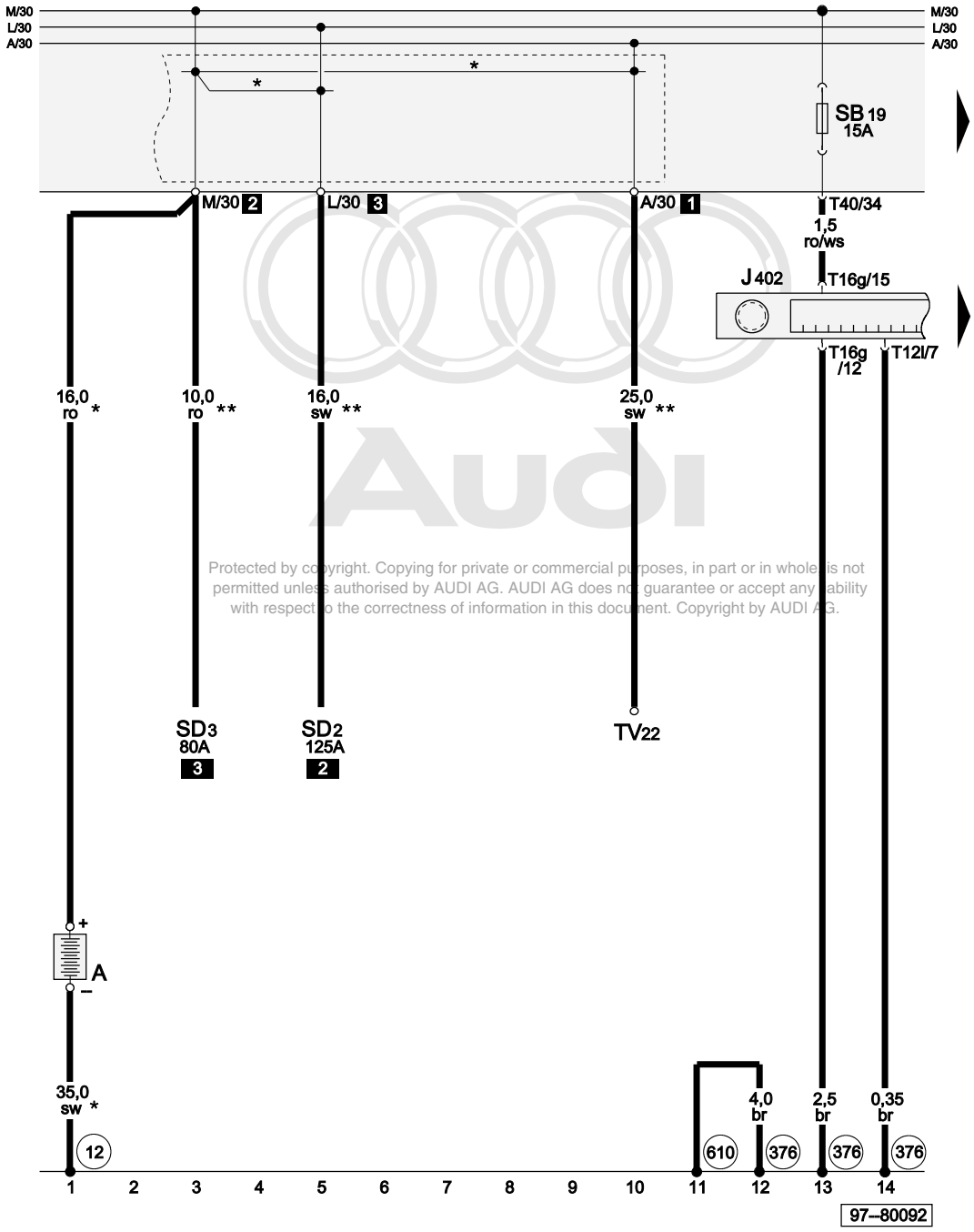
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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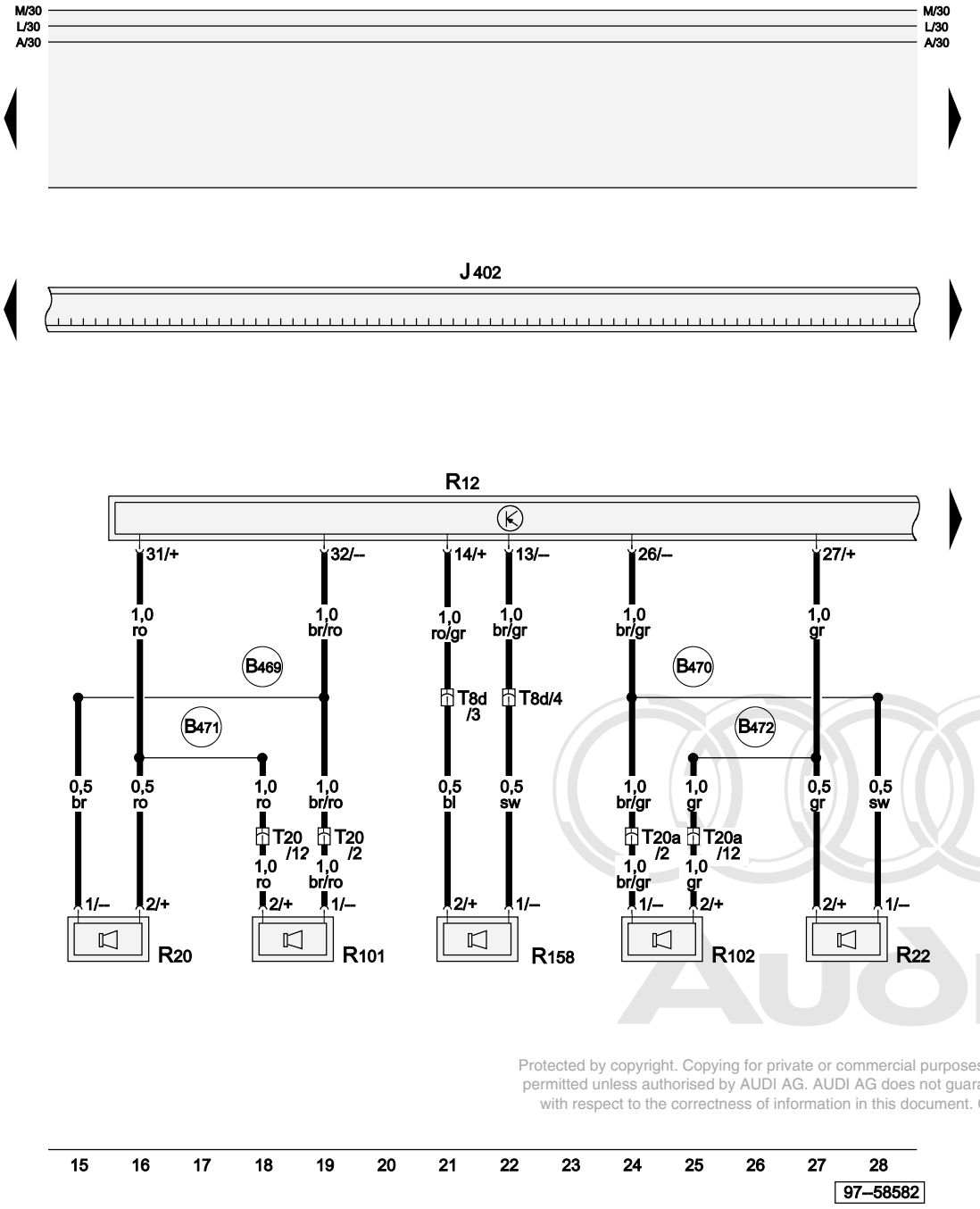


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ge = yellow
or = orange
rs = pink

Battery, fuses on fuse holder

A	Battery
J402	Navigation operating electronics control unit
SB19	Fuse 19 on fuse holder
SD2	Fuse 2 on fuse holder
SD3	Fuse 3 on fuse holder
T12l	12-pin connector, blue (connector B)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
TV22	Terminal 30 wiring junction 2
(12)	Earth point, on left in engine compartment
(376)	Earth connection 11, in main wiring harness
(610)	Earth point (audio), under centre console, front
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

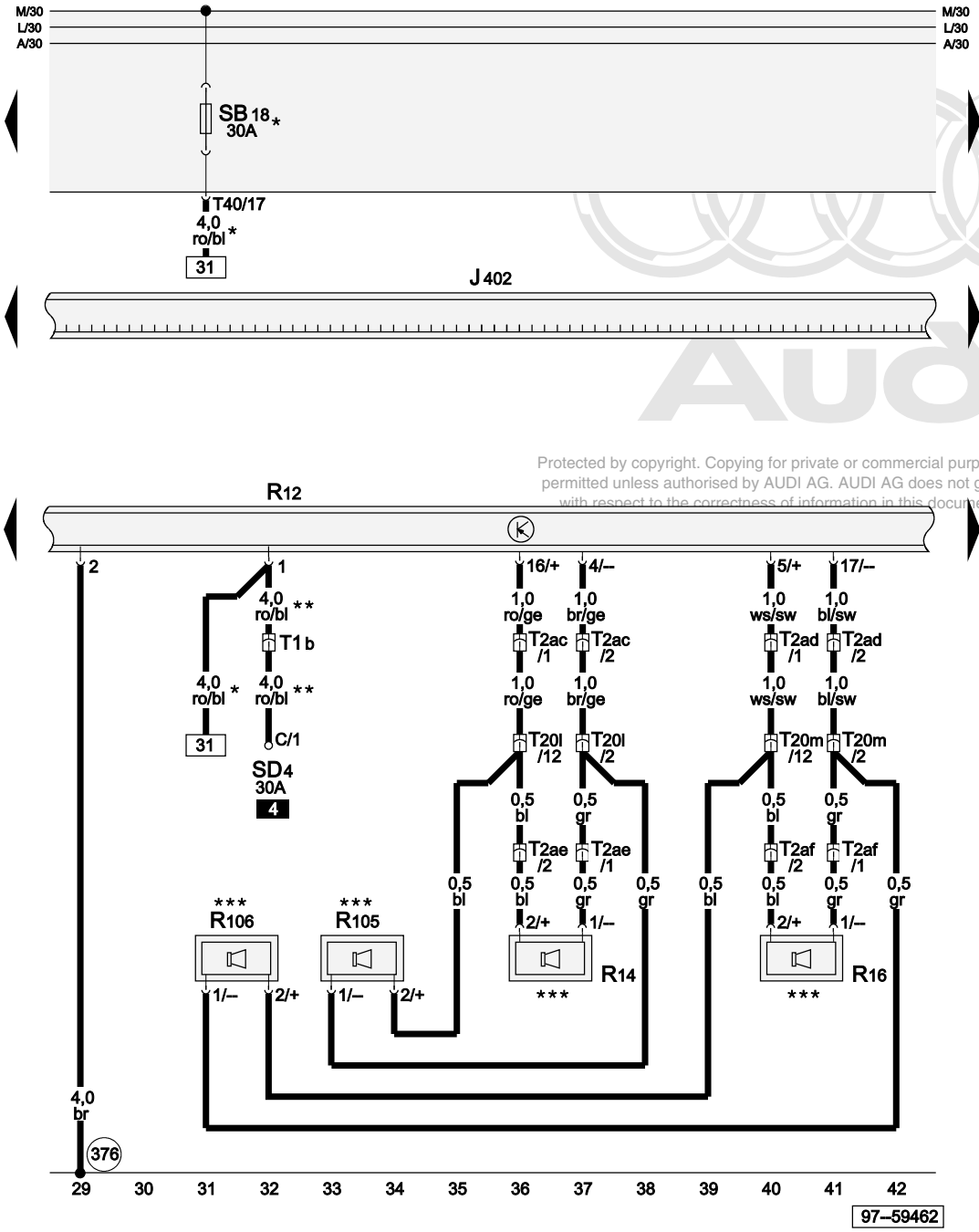


Front loudspeaker

J402	Navigation operating electronics control unit
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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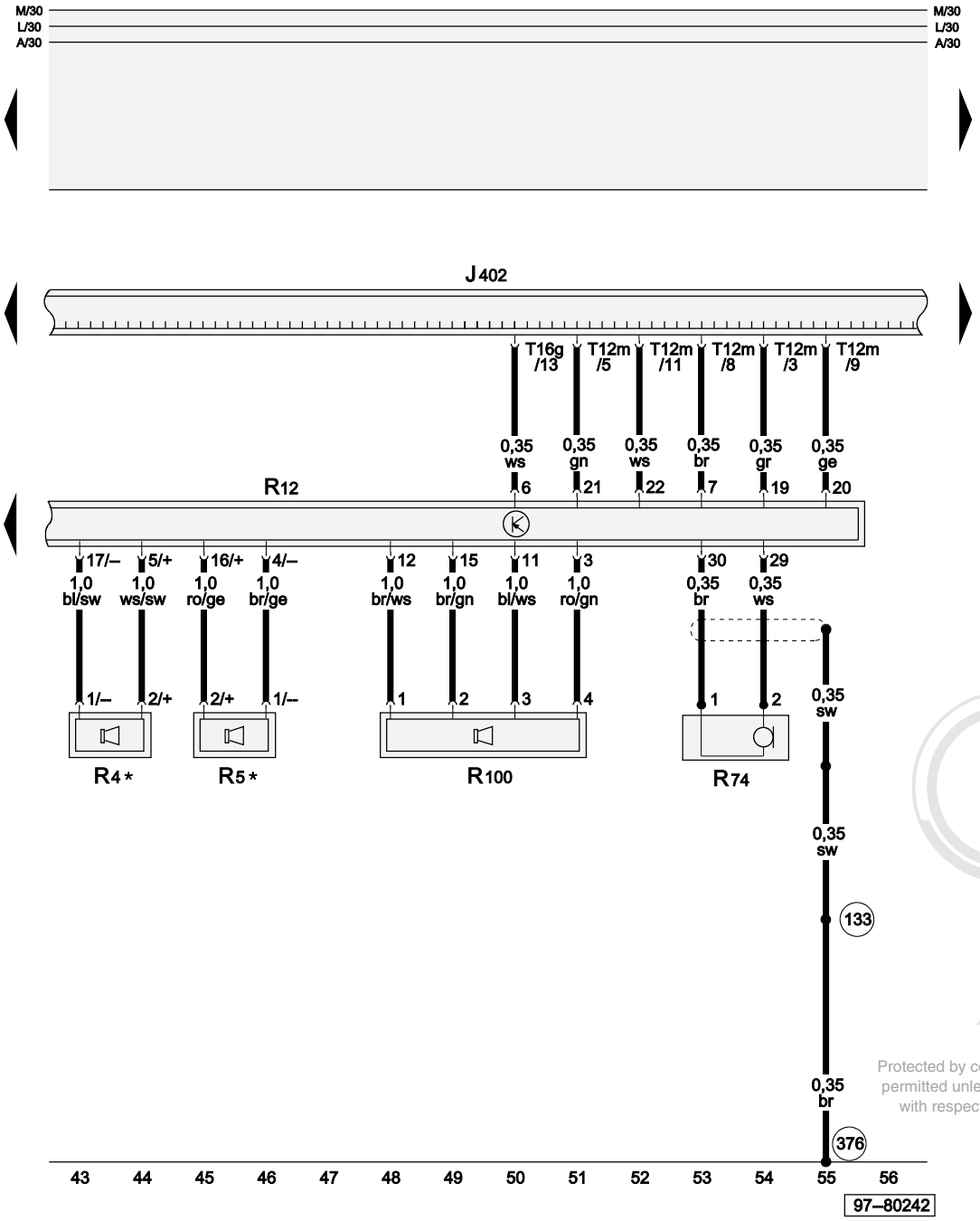


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Rear loudspeaker with amplifier

J402	Navigation operating electronics control unit
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range and bass loudspeaker
R106	Rear right mid-range and bass loudspeaker
SB18	Fuse 18 on fuse holder
SD4	Fuse 4 on fuse holder
T1b	1-pin connector, black, on left C-pillar
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door, B pillar, left
T20m	20-pin connector, black, door, B pillar, right
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only
	depends on equipment (K8R)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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rs	=	pink

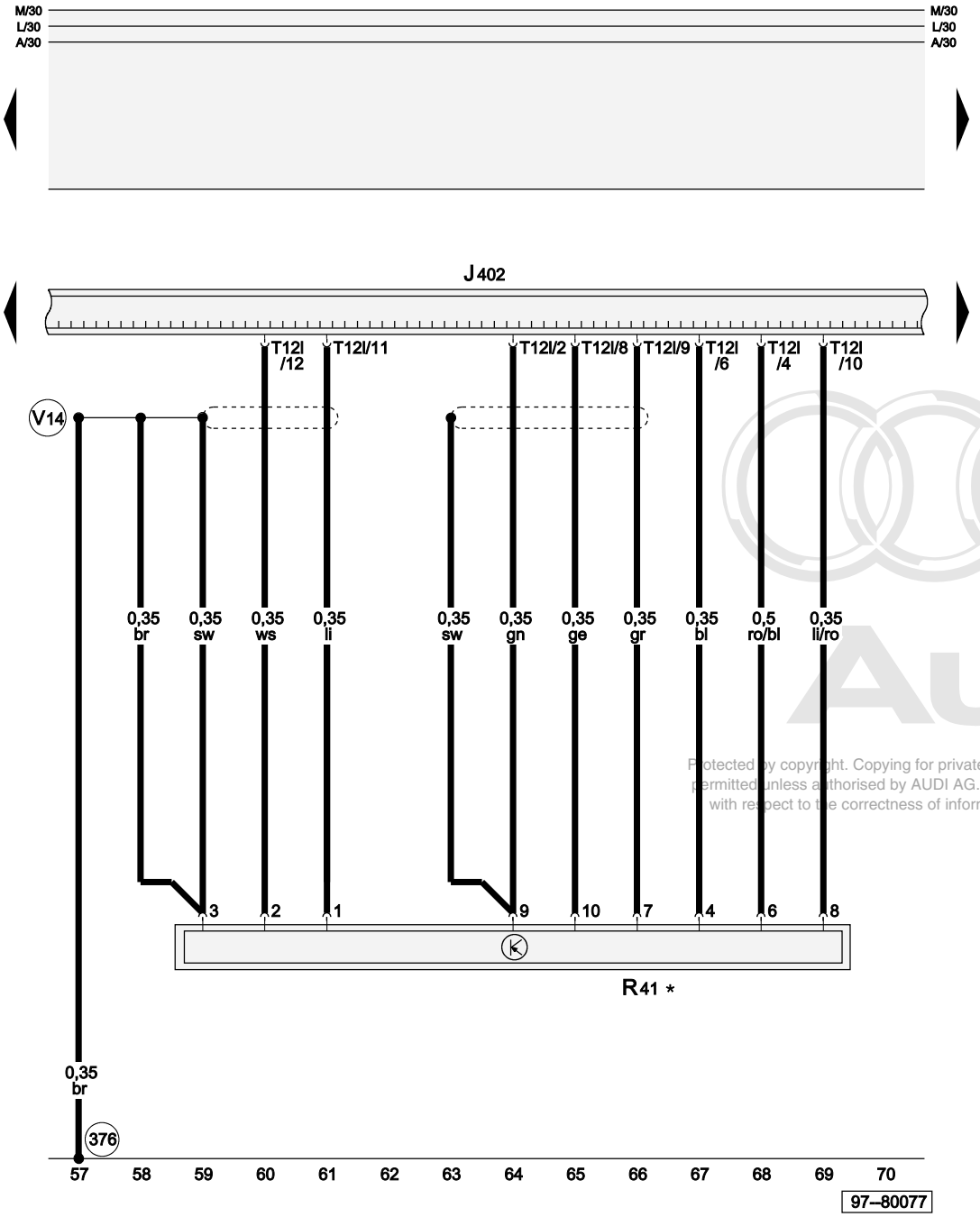


Rear loudspeaker with amplifier

J402	Navigation operating electronics control unit
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
(133)	Earth connection, in loudspeaker wiring harness
(376)	Earth connection 11, in main wiring harness
*	depends on equipment (K8G)

ws	=	white
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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
rs	=	pink

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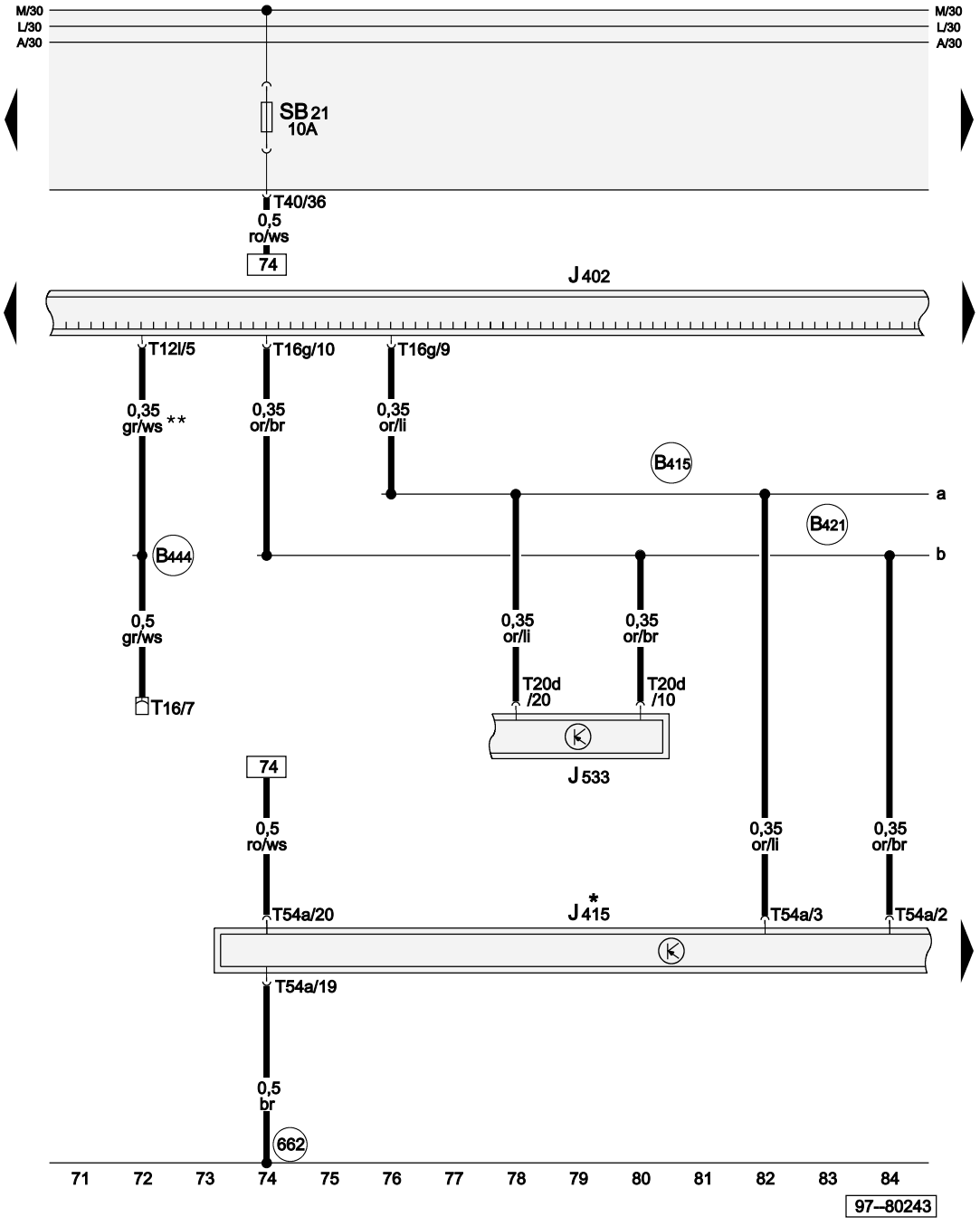


CD changer

J402	Navigation operating electronics control unit
R41	CD changer
T12l	12-pin connector, blue (connector B)
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
*	for models with CD changer only

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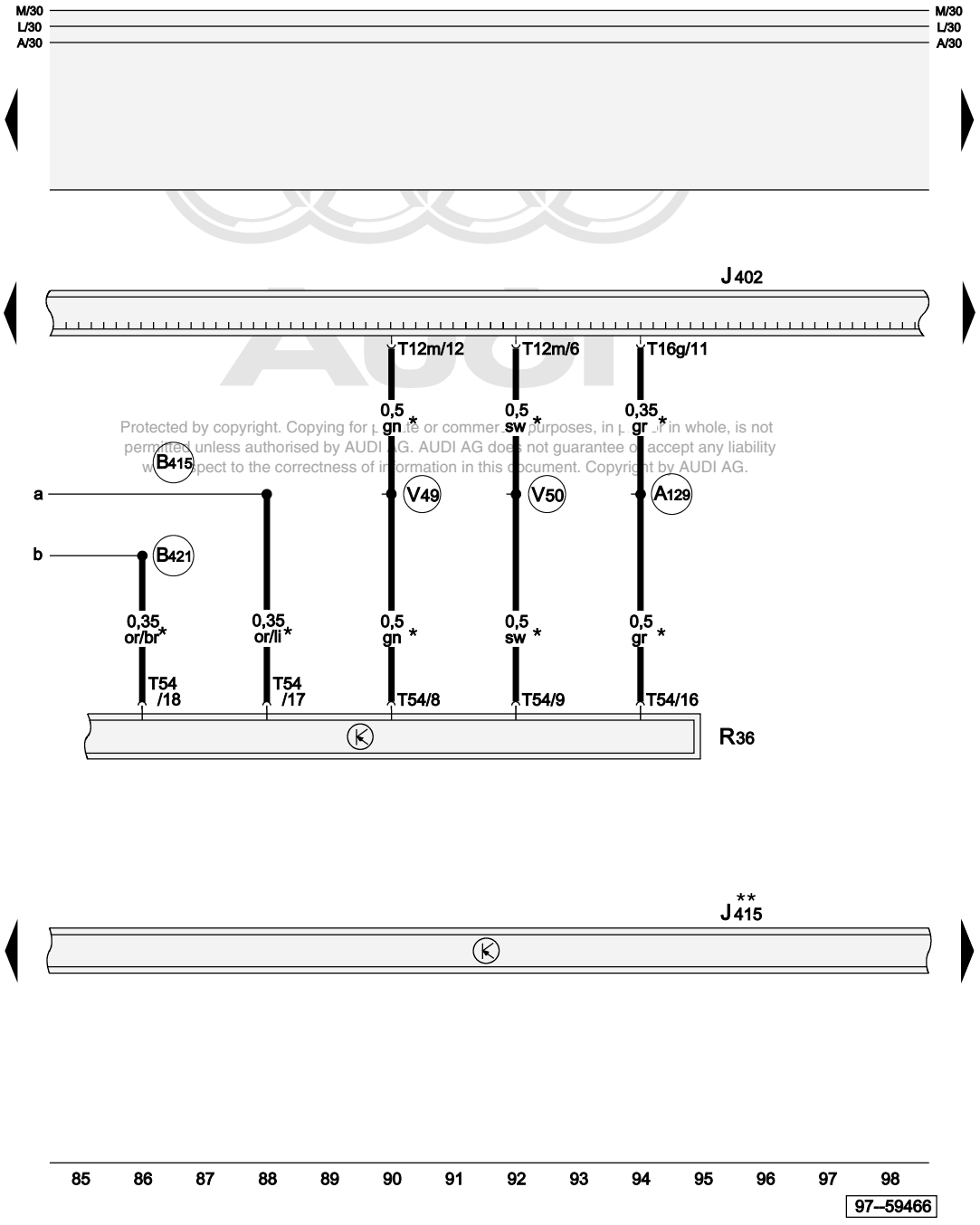
Infotainment CAN bus, diagnostic connector

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
J533	Data bus diagnostic interface
SB21	Fuse 21 on fuse holder
T12l	12-pin connector, blue (connector B)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T54a	54-pin connector, black (connector A)
662	Earth point, rear left side panel
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

* for models with TV tuner only

** No longer fitted, phased-in modification

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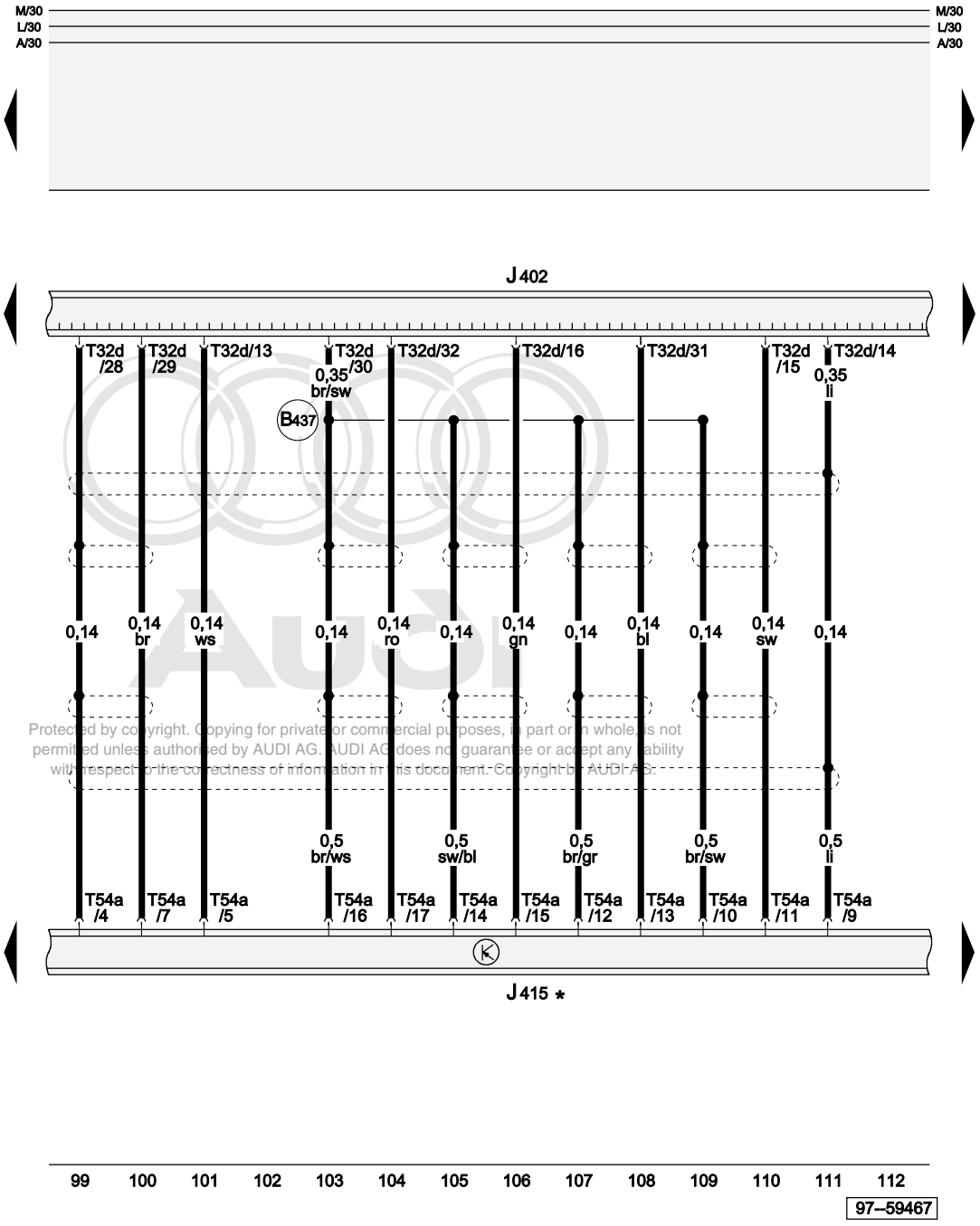


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Infotainment CAN bus, muting

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R36	Telephone transmitter and receiver unit
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF+), in communication wiring harness
V50	Connection (NF-), in communication wiring harness
*	for models with mobile telephone/ telephone only
**	for models with TV tuner only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

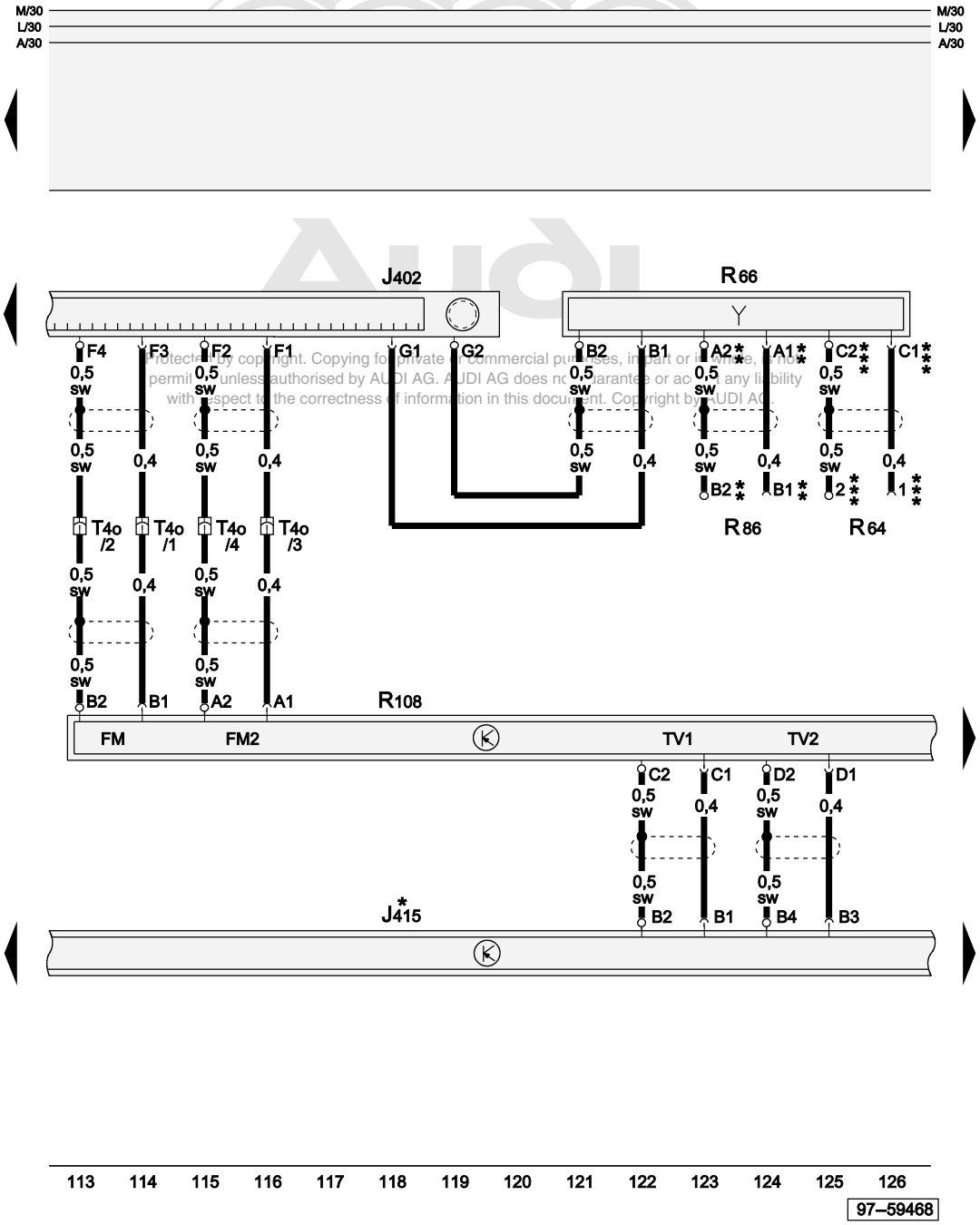


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Navigation system tuner for TV

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
T32d	32-pin connector, grey (connector E)
T54a	54-pin connector, black (connector A)
B437	Connection 1 (GPS), in main wiring harness
*	for models with TV tuner only

ws	=	white
sw	=	black
ro	=	red
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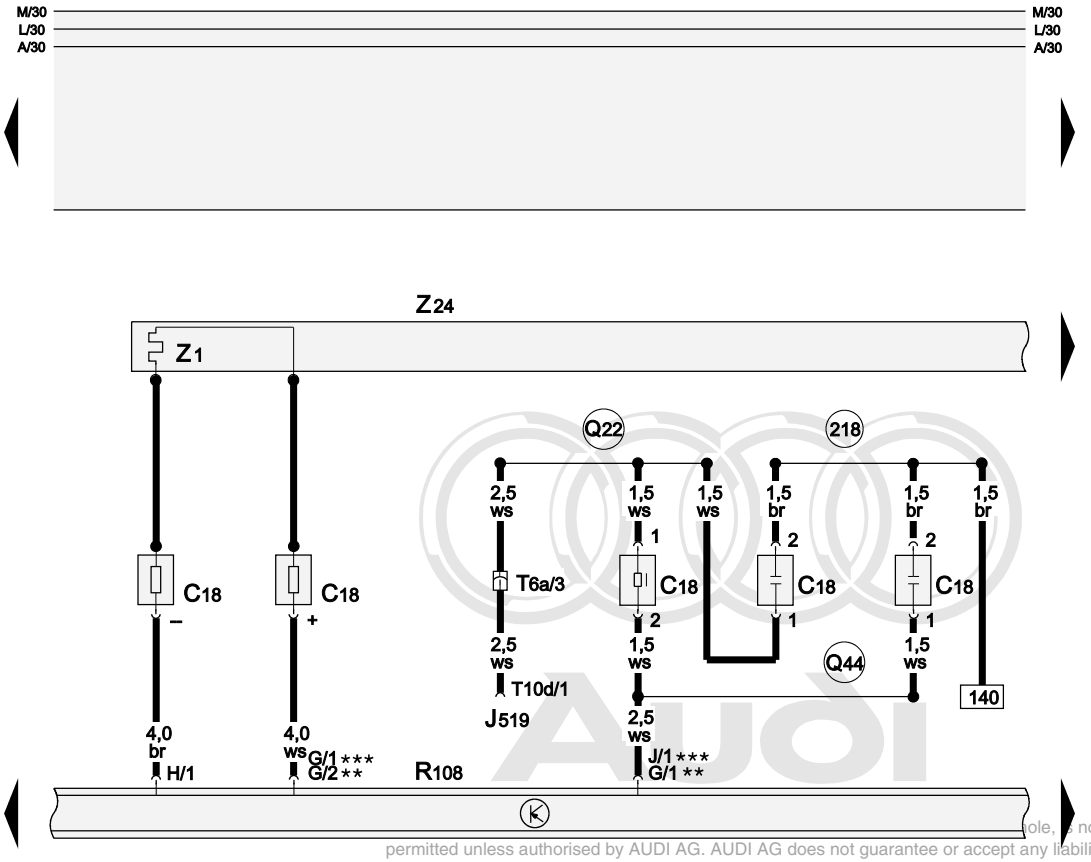


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Left aerial module, telephone, navigation system and auxiliary heater aerial

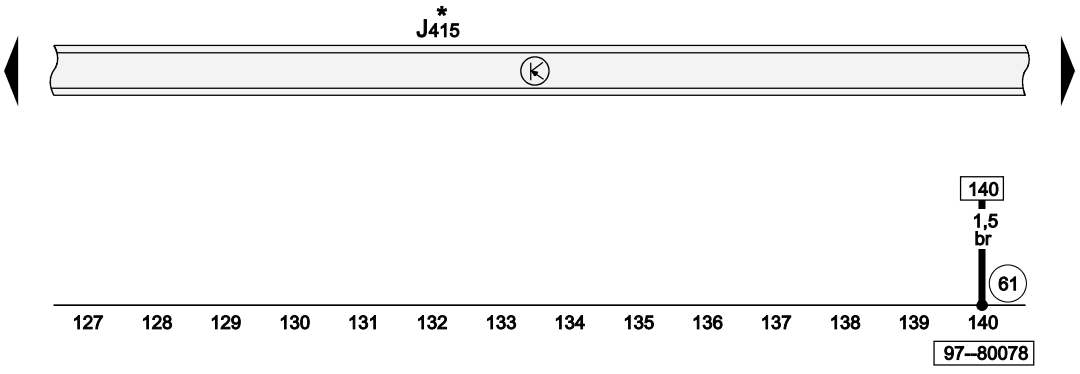
J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R64	Remote control receiver for auxiliary heating
R66	Telephone, navigation system and auxiliary heater aerial
R86	Aerial amplifier for mobile telephone
R108	Aerial module, left
T4o	4-pin connector, near C-pillar right
*	for models with TV tuner only
**	for models with preparation for mobile telephone only
***	for models with auxiliary heating only

ws	=	white
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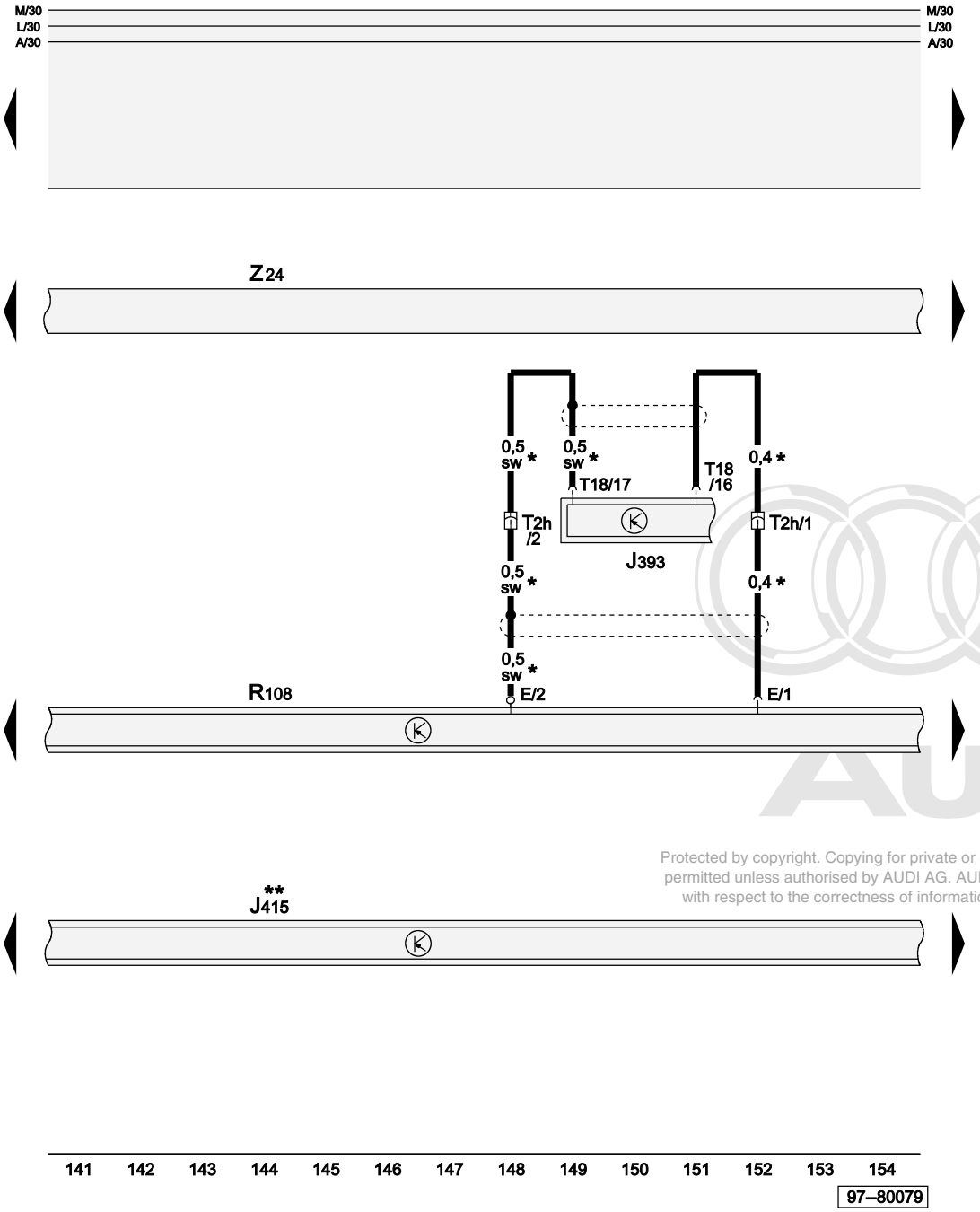
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Left aerial module, heated rear window with window aerial

C18	Window aerial suppression filter
J415	Navigation system tuner for TV
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point in left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness
*	for models with TV tuner only
**	for models with 3-door models only
***	for models with 5-door models only

ws	=	white
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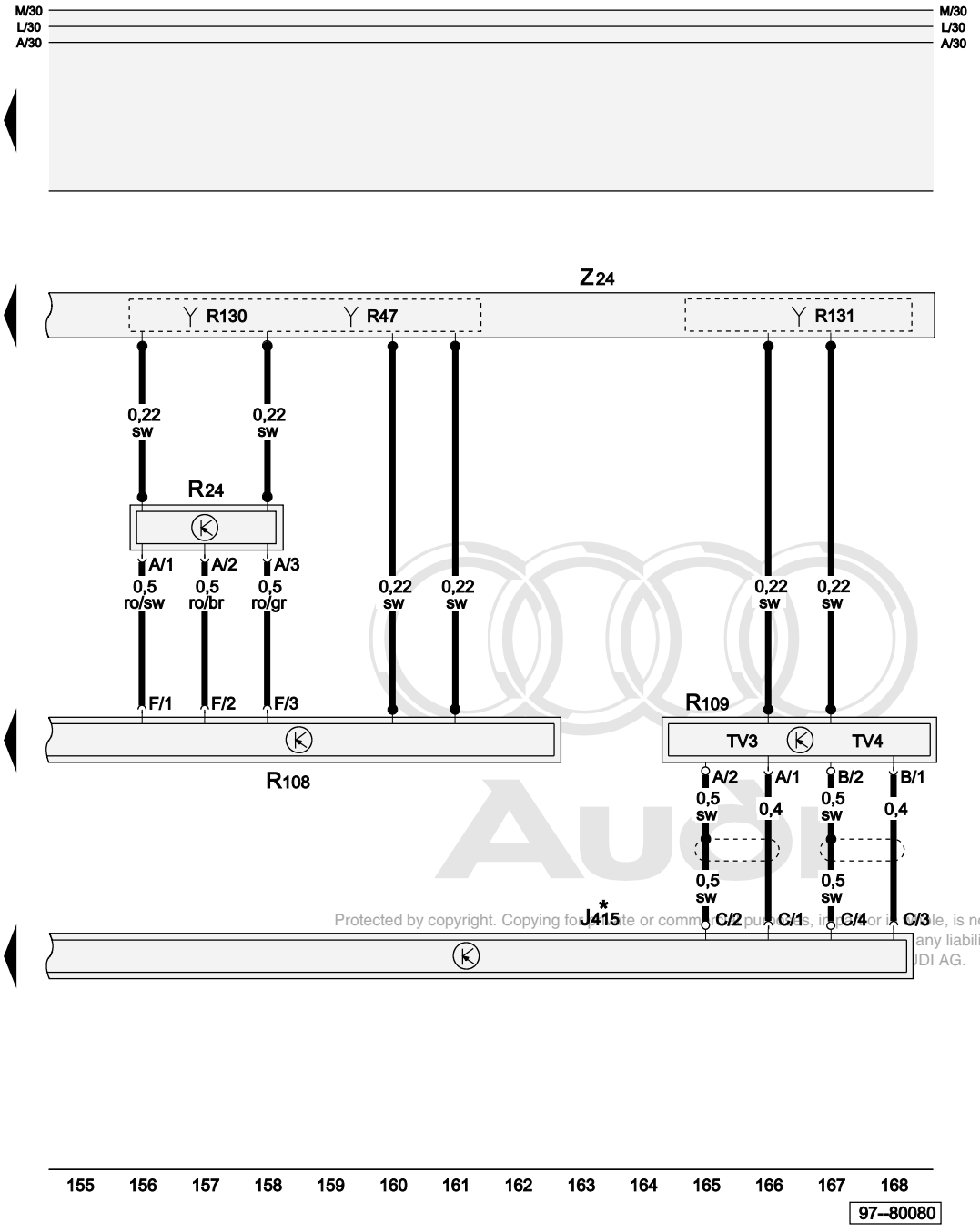


Convenience system central control unit, left aerial module

J393	Convenience system central control unit
J415	Navigation system tuner for TV
R108	Left aerial module
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only
**	for models with TV tuner only

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Rear window aerial 1, rear window aerial 2

J415	Navigation system tuner for TV
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R109	Right aerial module
R130	Rear window aerial 1
R131	Rear window aerial 2
Z24	Heated rear window with window aerial
*	for models with TV tuner only

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1.6 l - Fuel injection engine (75 kW - Simos - 4 cylinder), engine code BGU

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

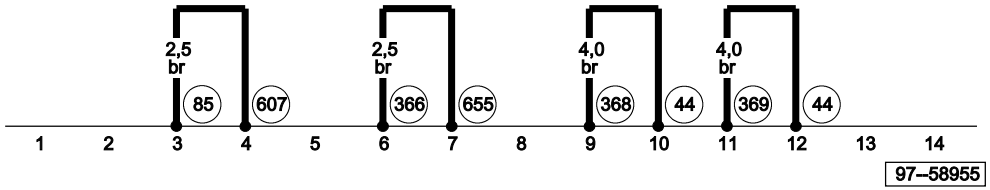
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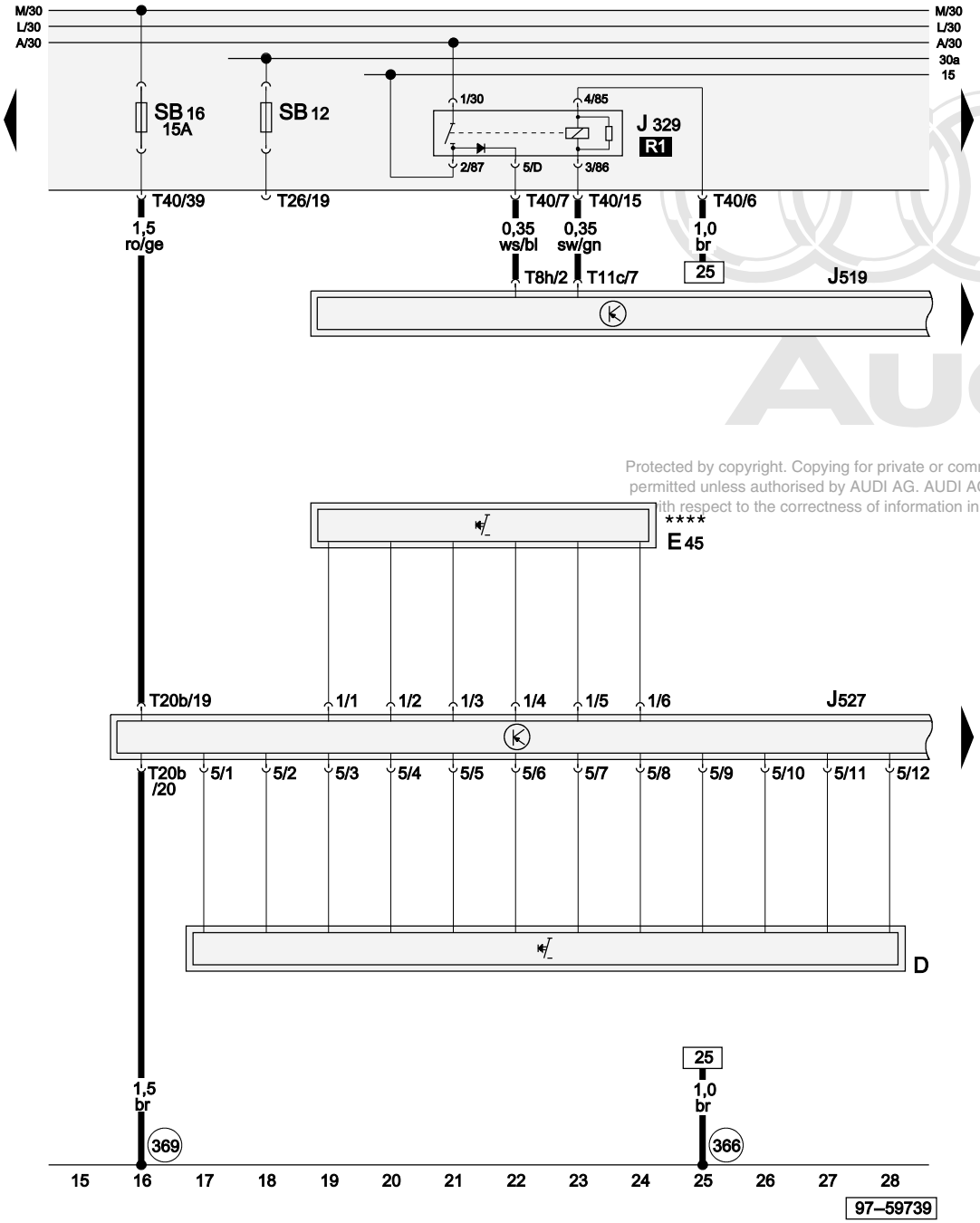
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Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection 1, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight



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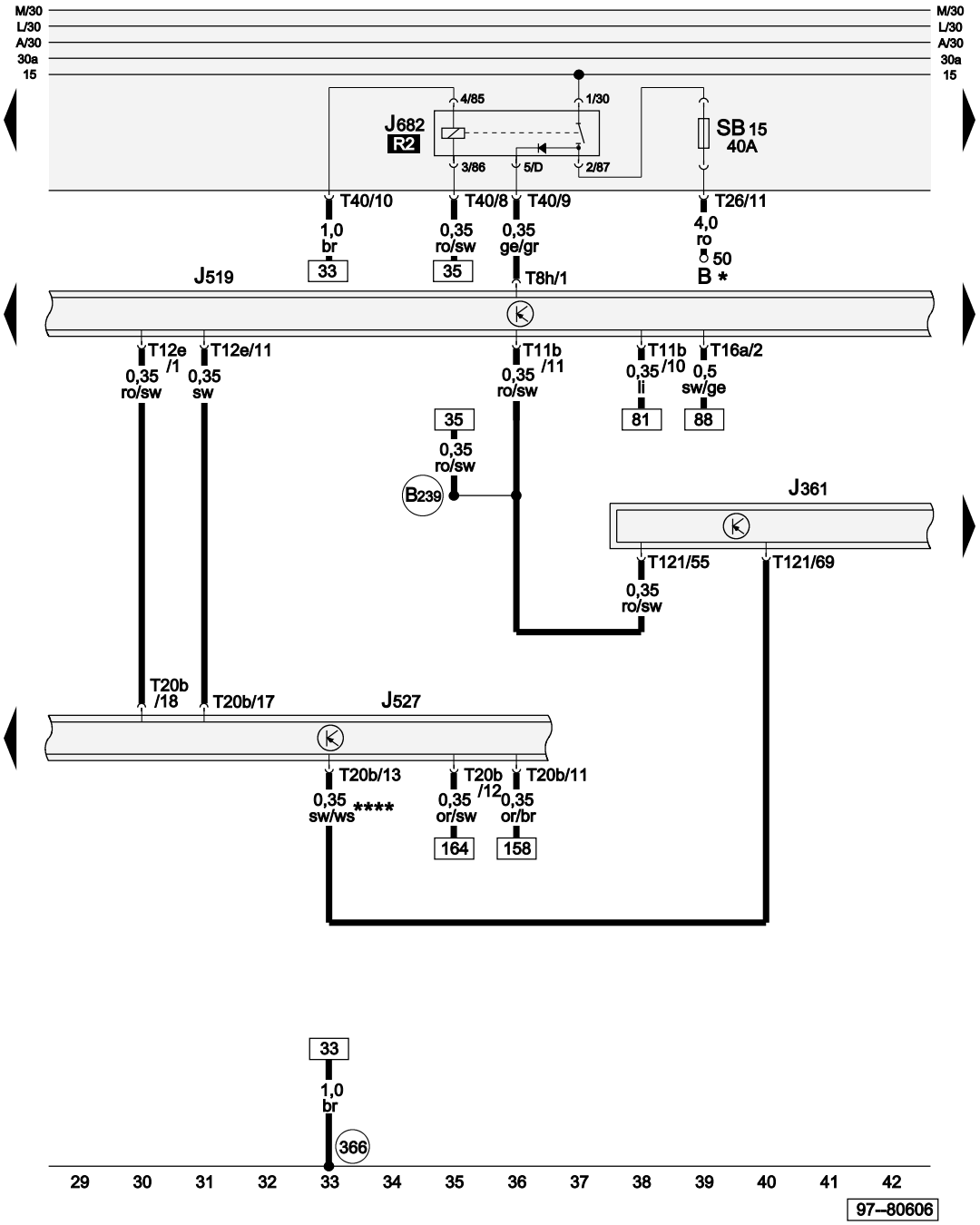


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Terminal 15 voltage supply relay, cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB12	Fuse 12 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
****	for models with cruise control system only

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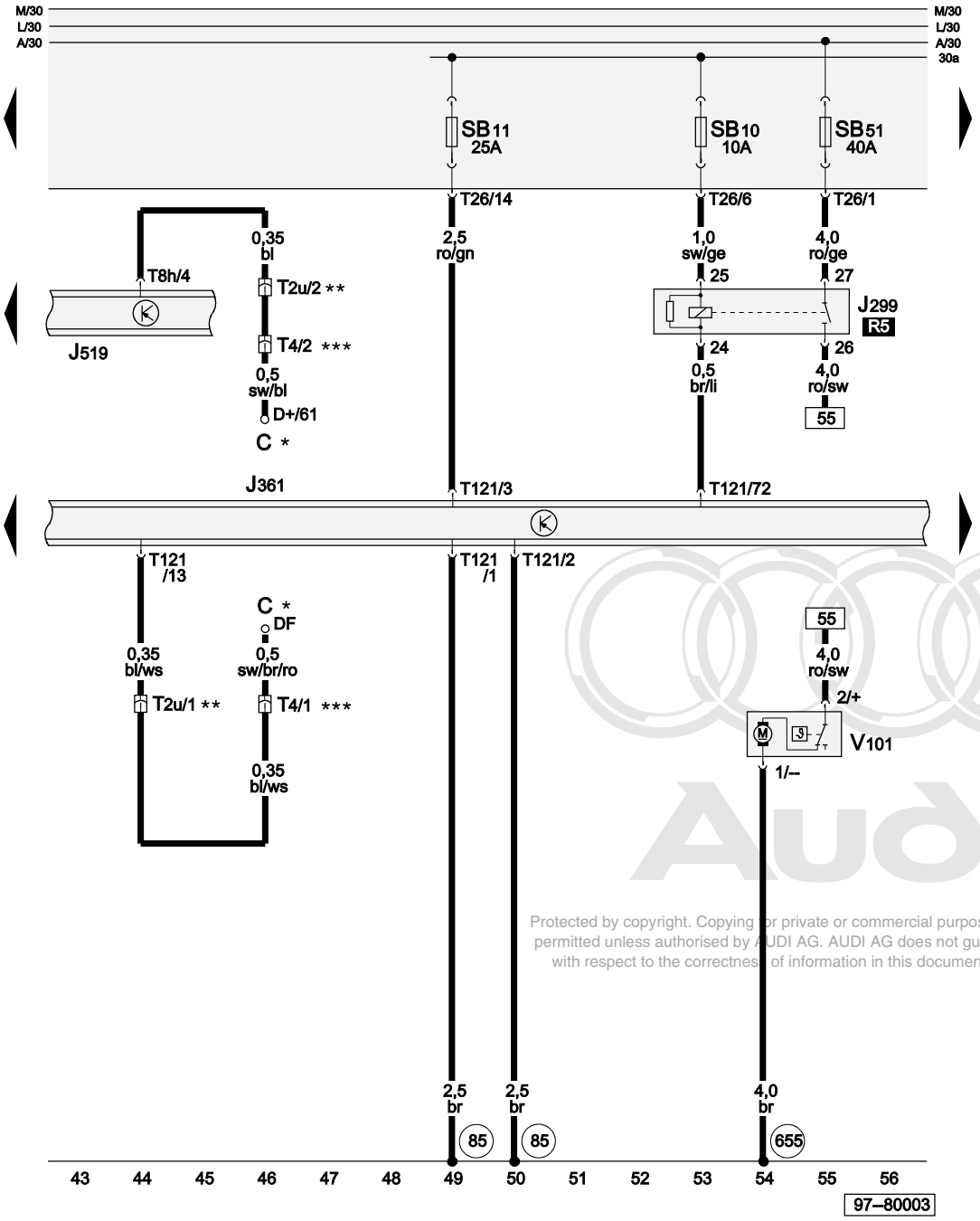


Terminal 50 voltage supply relay

B	Starter
J361	Simos control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T16a	16-pin connector, black (connector E)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
366	Earth connection 1, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
****	for models with cruise control system only

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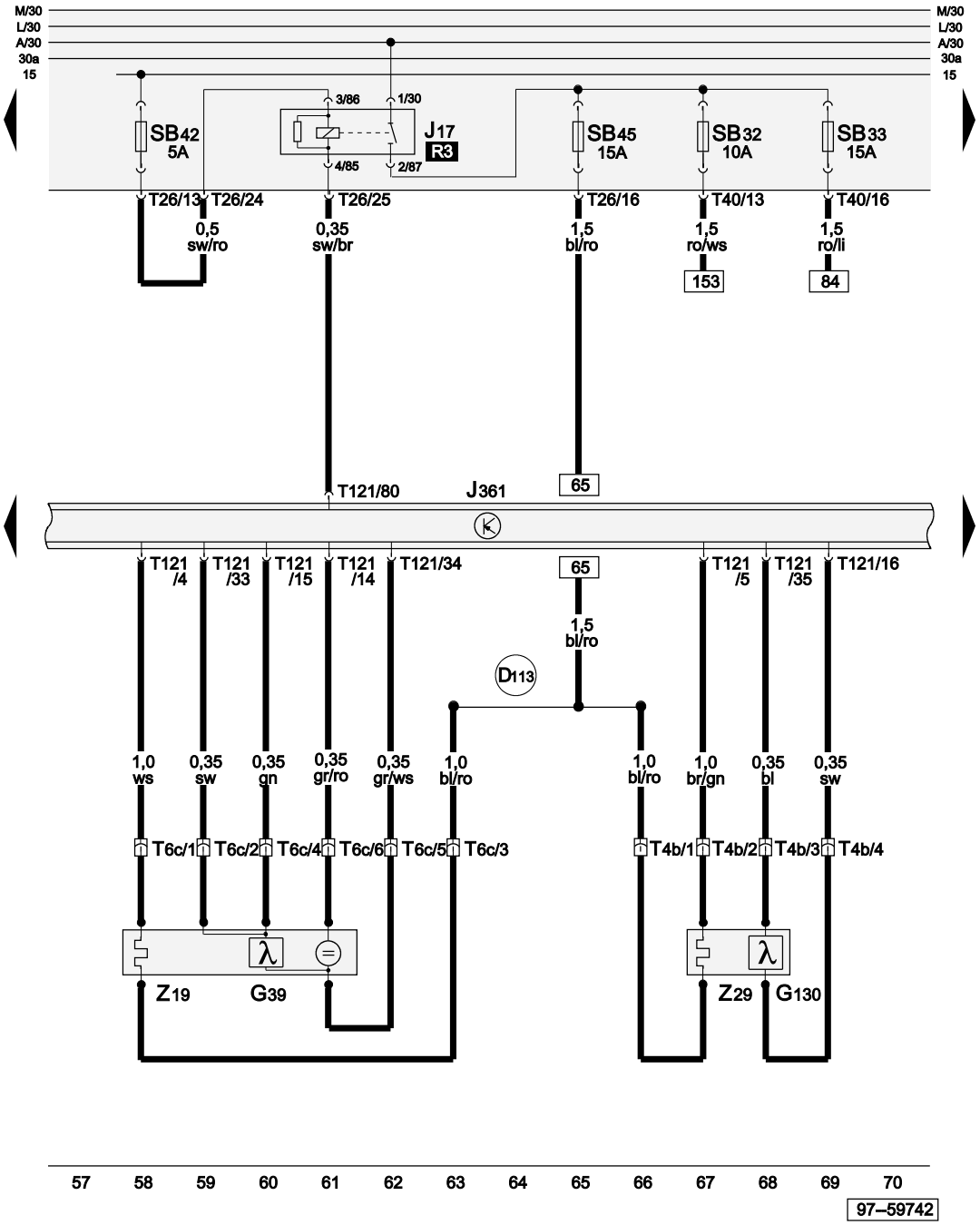


Secondary air pump relay, secondary air pump motor

C	Alternator
J299	Secondary air pump relay
J361	Simos control unit
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder
SB11	Fuse 11 on fuse holder
SB51	Fuse 51 on fuse holder
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
V101	Secondary air pump motor
85	Earth connection 1, in engine compartment wiring harness
655	Earth point, on left headlight
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only

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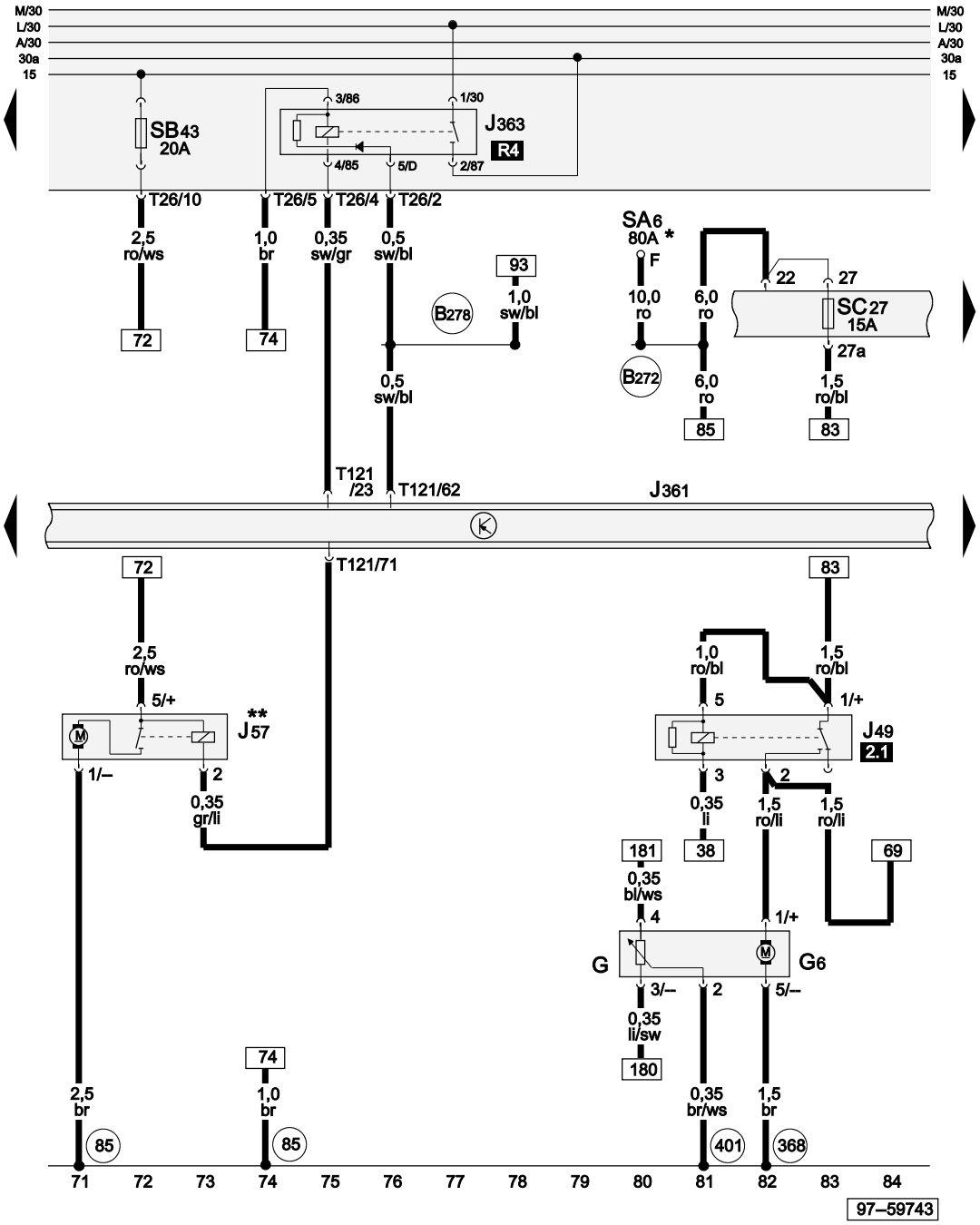


Lambda probe, lambda probe after catalytic converter, fuel pump relay

G39	Lambda probe
G130	Lambda probe after catalytic converter
J17	Fuel pump relay
J361	Simos control unit
SB32	Fuse 32 on fuse holder
SB33	Fuse 33 on fuse holder
SB42	Fuse 42 on fuse holder
SB45	Fuse 45 on fuse holder
T4b	4-pin connector, black, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D113	Connection 11, in engine compartment wiring harness

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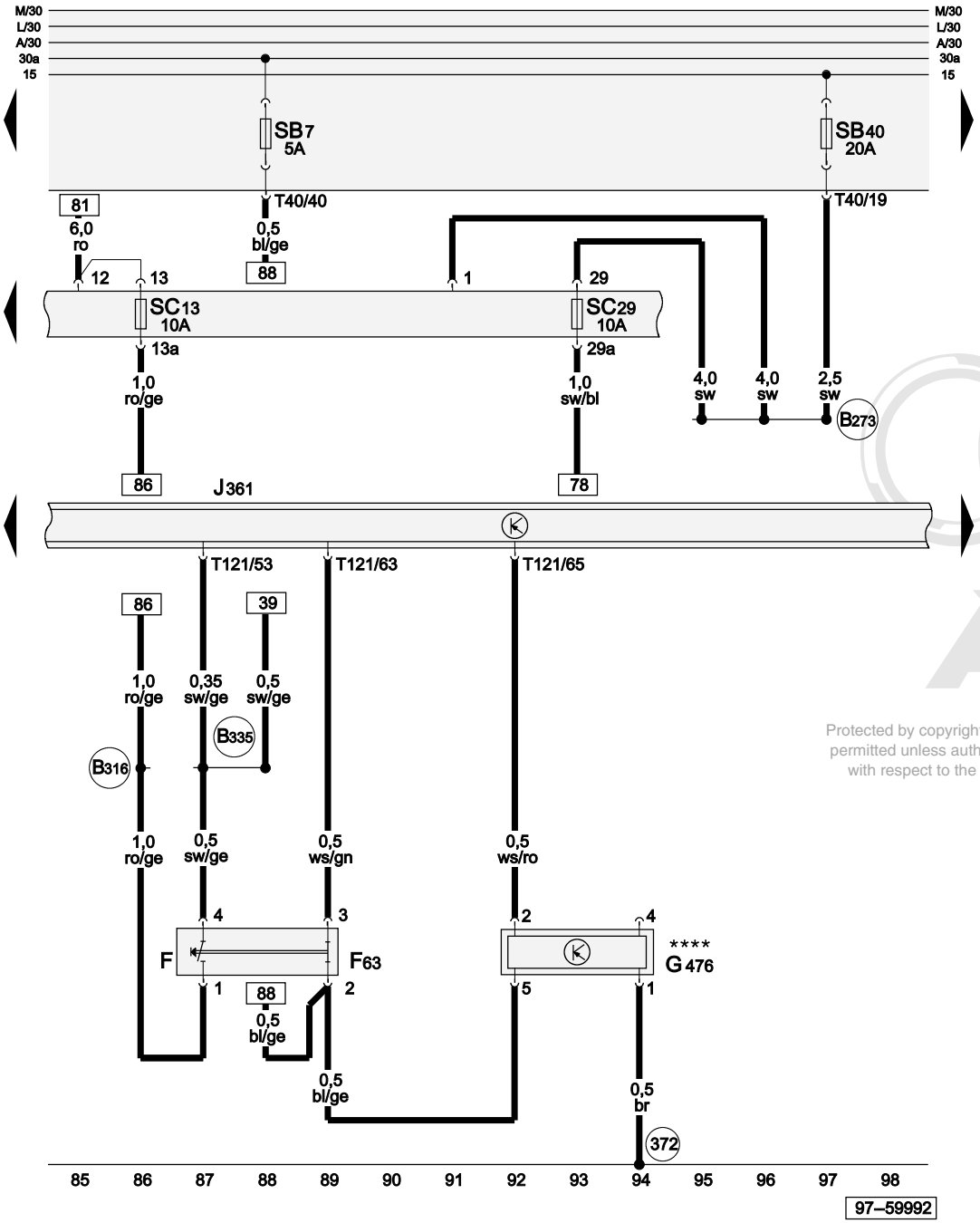


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gr = grey
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Current supply relay for Simos control unit, electric fuel pump 2 relay

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J49	Electric fuel pump 2 relay
J57	Vacuum pump relay
J361	Simos control unit
J363	Current supply relay for Simos control unit
SA6	Fuse 6 on fuse holder on battery
SB43	Fuse 43 on fuse holder
SC27	Fuse 27 on fuse holder
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
85	Earth connection 1, in engine compartment wiring harness
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	for models with automatic gearbox only

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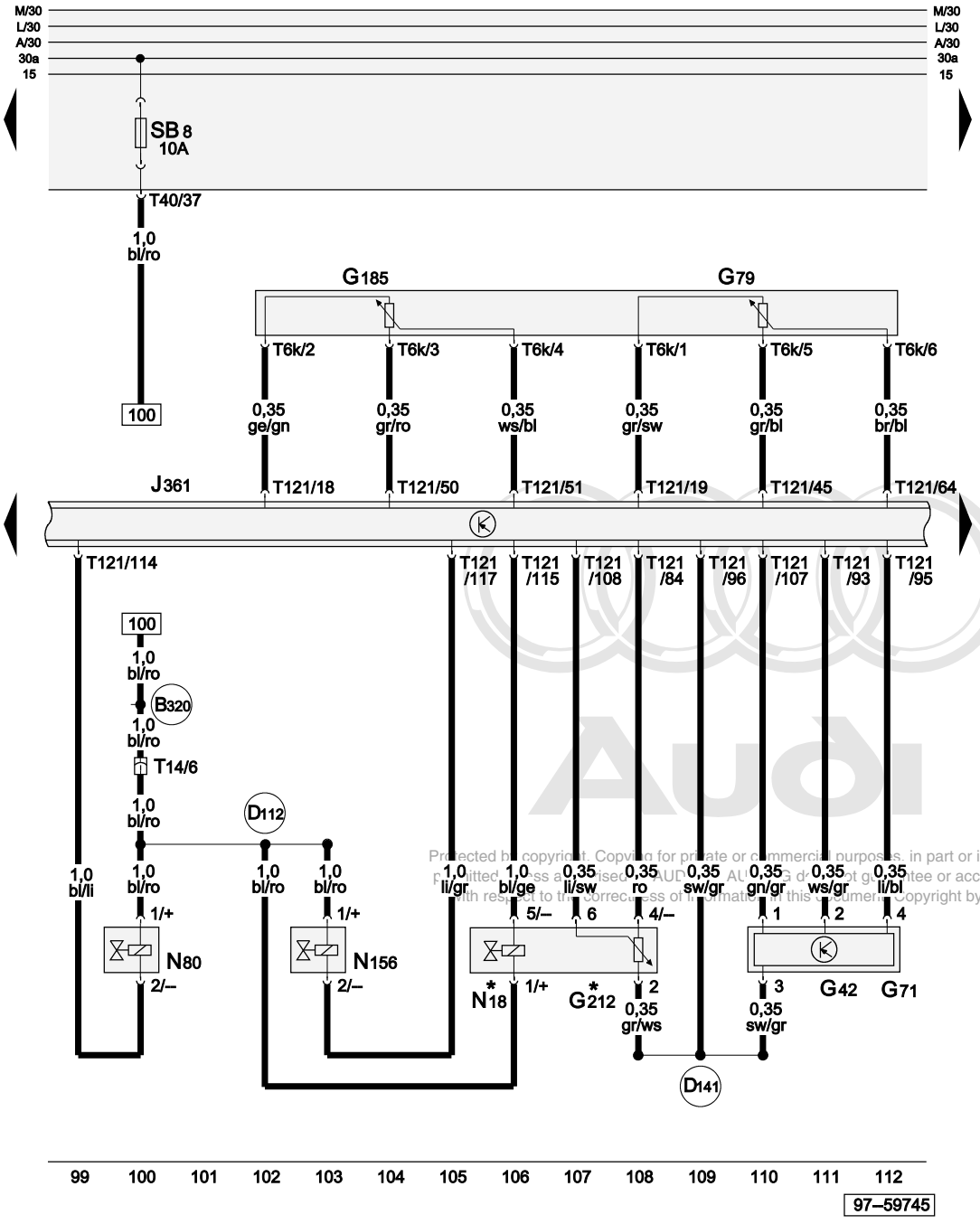


Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J361	Simos control unit
SB7	Fuse 7 on fuse holder
SB40	Fuse 40 on fuse holder
SC13	Fuse 13 on fuse holder
SC29	Fuse 29 on fuse holder
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
372	Earth connection 7, in main wiring harness
B273	Positive connection (15), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
****	for models with manual gearbox only

ws	=	white
sw	=	black
ro	=	red
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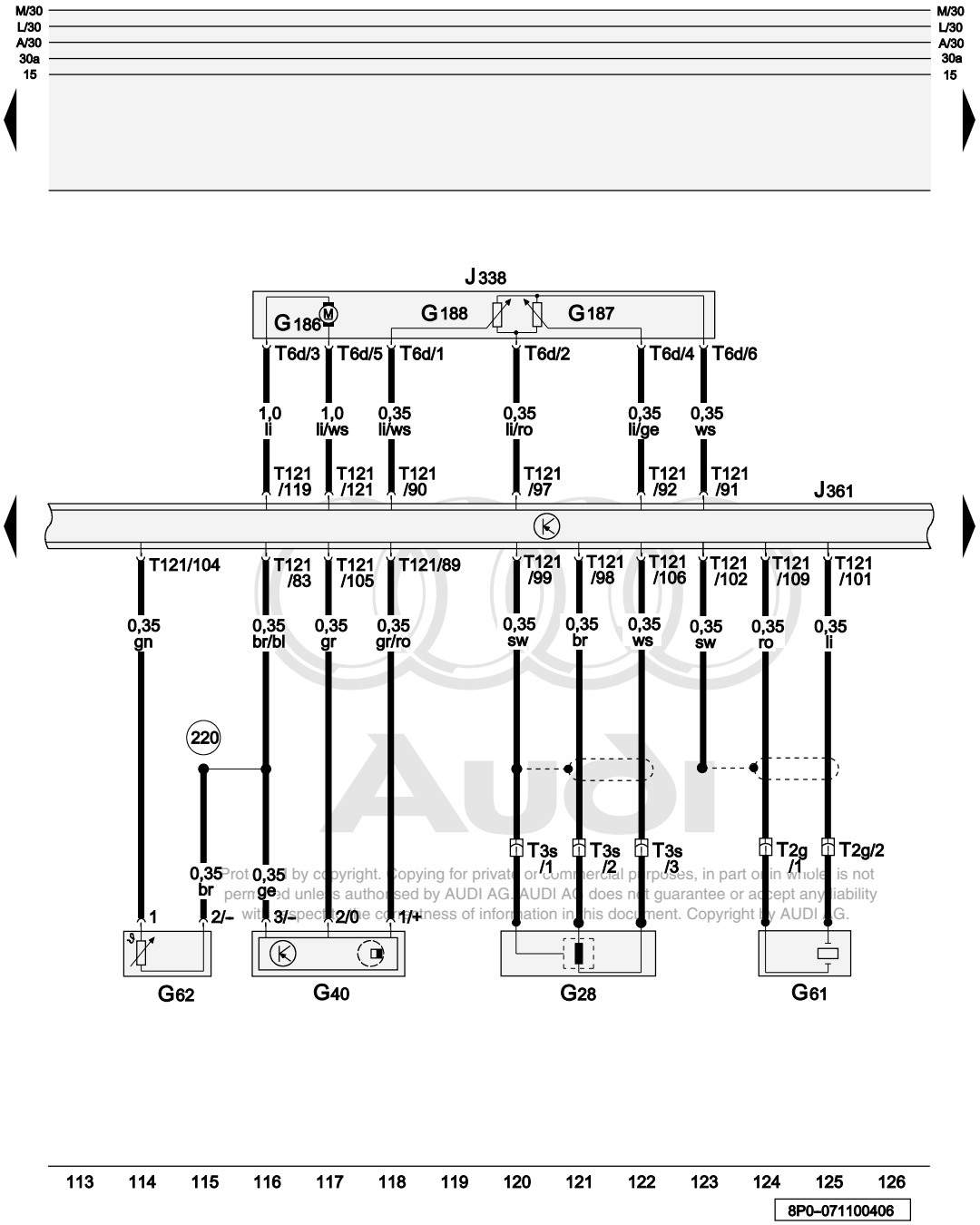


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Accelerator position sender, exhaust gas recirculation valve, active charcoal filter system solenoid valve 1, variable intake manifold change-over valve

G42	Intake air temperature sender
G71	Intake manifold pressure sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G212	Exhaust gas recirculation potentiometer
J361	Simos control unit
N18	Exhaust gas recirculation valve
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
SB8	Fuse 8 on fuse holder
T6k	6-pin connector, black, near accelerator position sender
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
B320	Positive connection 6 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
*	for models with exhaust gas recirculation only

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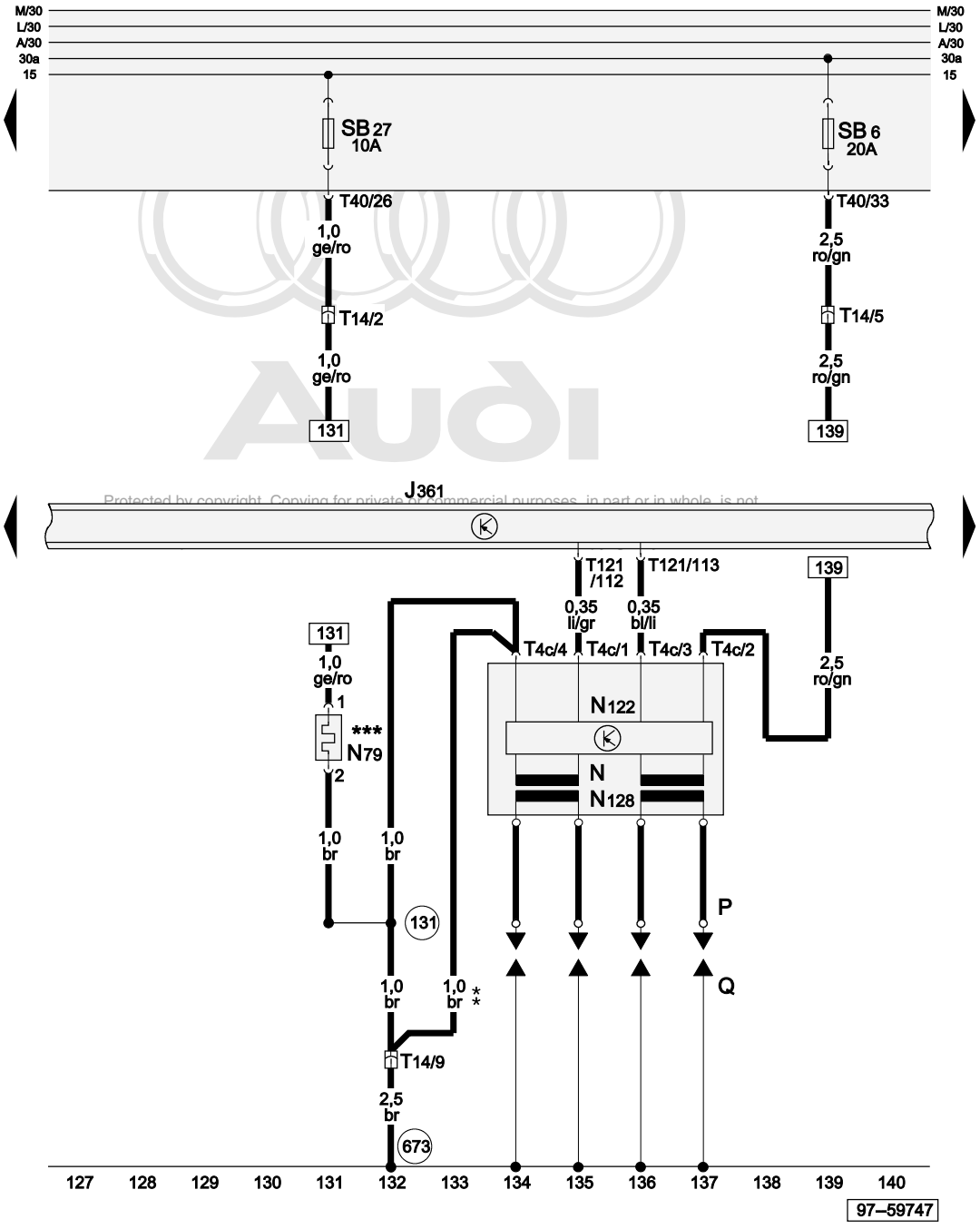


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Engine speed sender, Hall sender, knock sensor 1, coolant temperature sender, throttle valve module

G28	Engine speed sender
G40	Hall sender
G61	Knock sensor 1
G62	Coolant temperature sender
G186	Throttle valve drive, electric throttle
G187	Throttle valve drives angle sender 1, electric throttle
G188	Throttle valve drives angle sender 2, electric throttle
J338	Throttle valve module
J361	Simos control unit
T2g	2-pin connector, black, in left engine compartment (knock sensor)
T3s	3-pin connector
T6d	6-pin connector, black, near throttle valve module
T121	121-pin connector, black, on engine control unit
220	Earth connection (sender earth), in engine wiring harness

ws	=	white
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or	=	orange
rs	=	pink

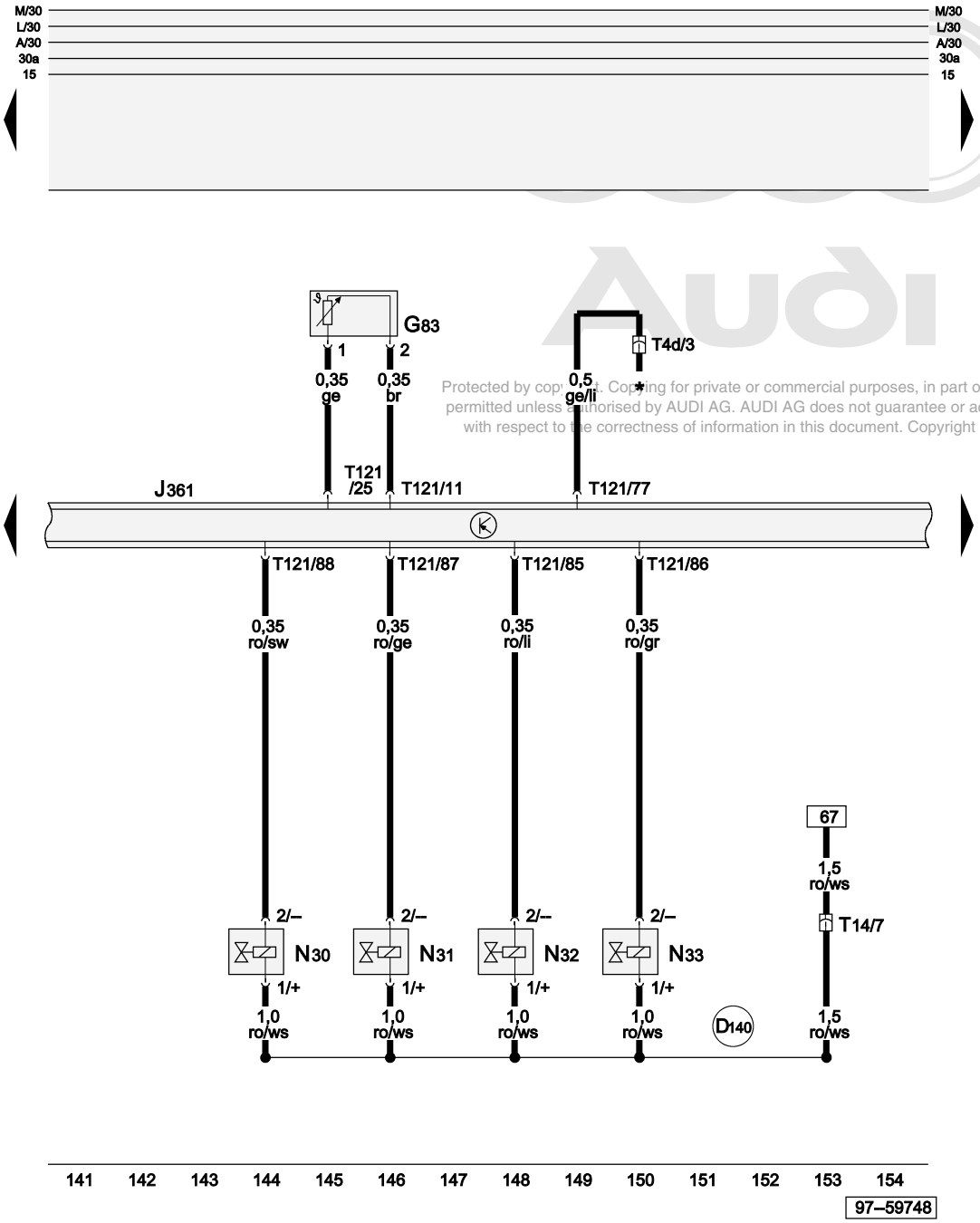


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Ignition coils with output stage, heater element for crankcase breather

J361	Simos control unit
N	Ignition coil 1 with output stage
N79	Heater element for crankcase breather
N122	Output stage
N128	Ignition coil 2
P	Spark plug connector
Q	Spark plugs
SB6	Fuse 6 on fuse holder
SB27	Fuse 27 on fuse holder
T4c	4-pin connector, black, on output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
(131)	Earth connection 2, in engine compartment wiring harness
(673)	Earth point 3, on front of left longitudinal member
**	for models without heater element only
***	for models with heater element only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

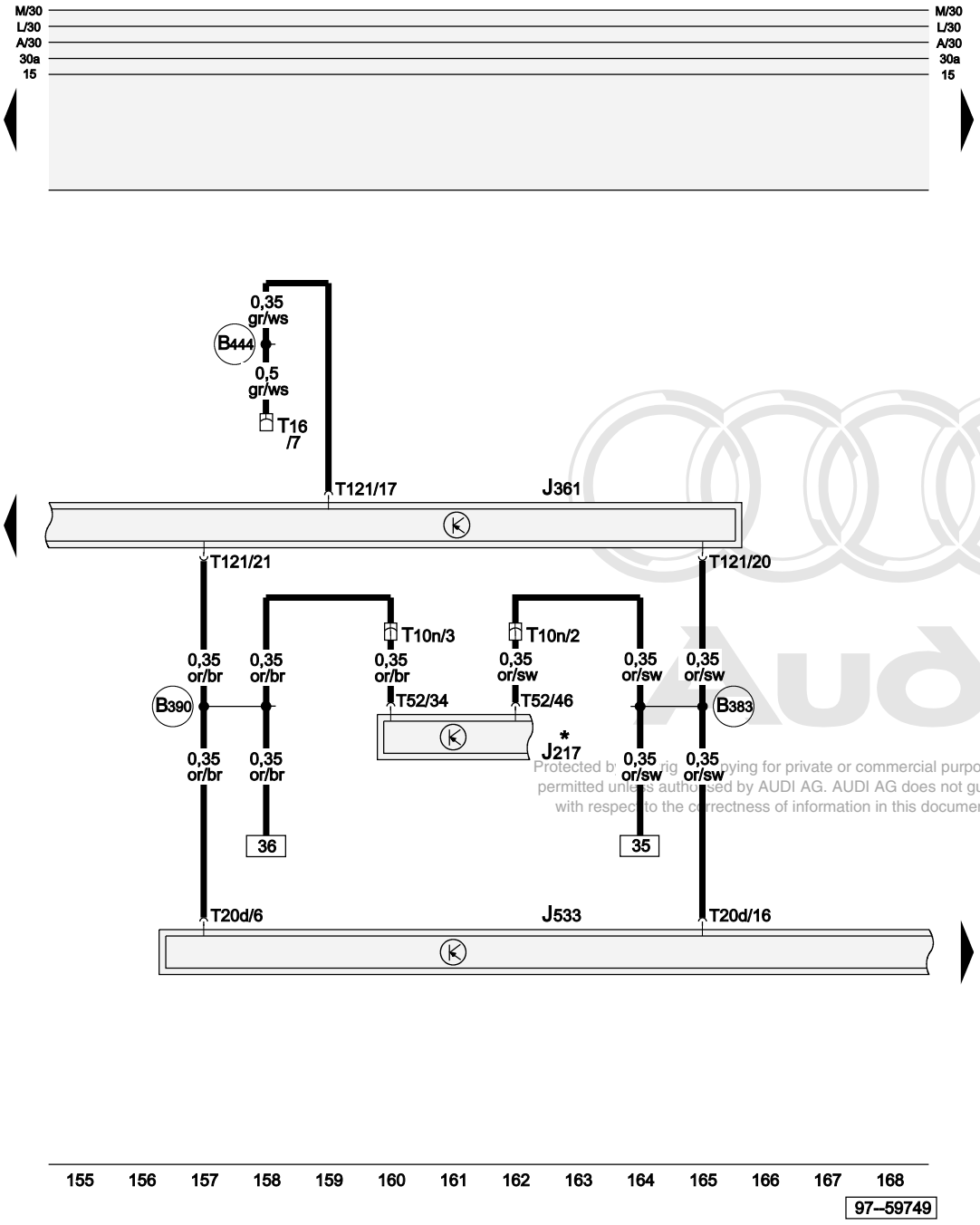


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Radiator outlet coolant temperature sender, injectors

G83	Radiator outlet coolant temperature sender
J361	Simos control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T121	121-pin connector, black, on engine control unit
D140	Connection (injectors), in engine wiring harness
*	See applicable Current Flow Diagram: radiator fan

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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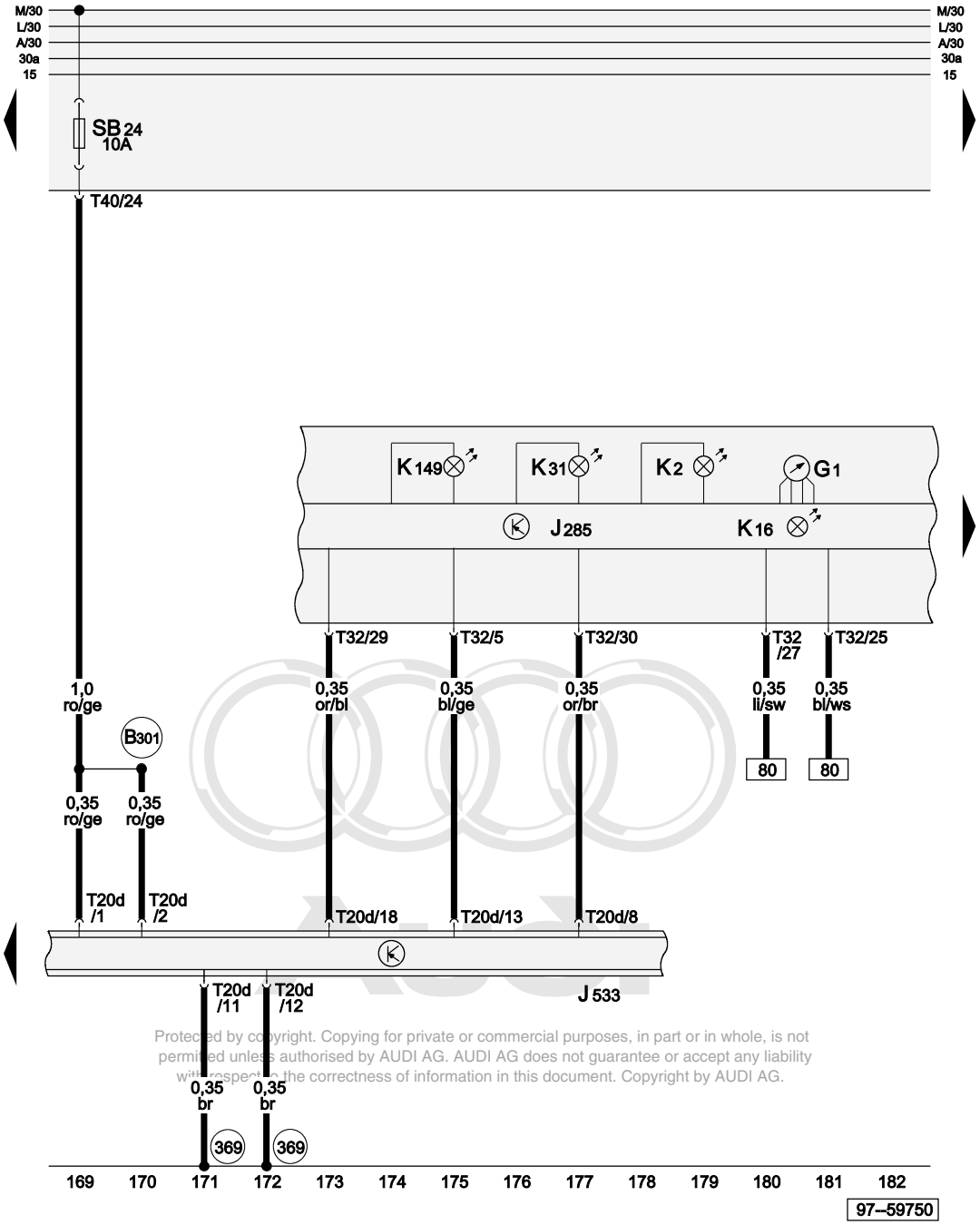


Drive train CAN bus, K-diagnosis wiring

J217	Automatic gearbox control unit
J361	Simos control unit
J533	Data bus diagnostic interface
T10n	10-pin connector, black, near longitudinal member, front left
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with automatic gearbox (09G) only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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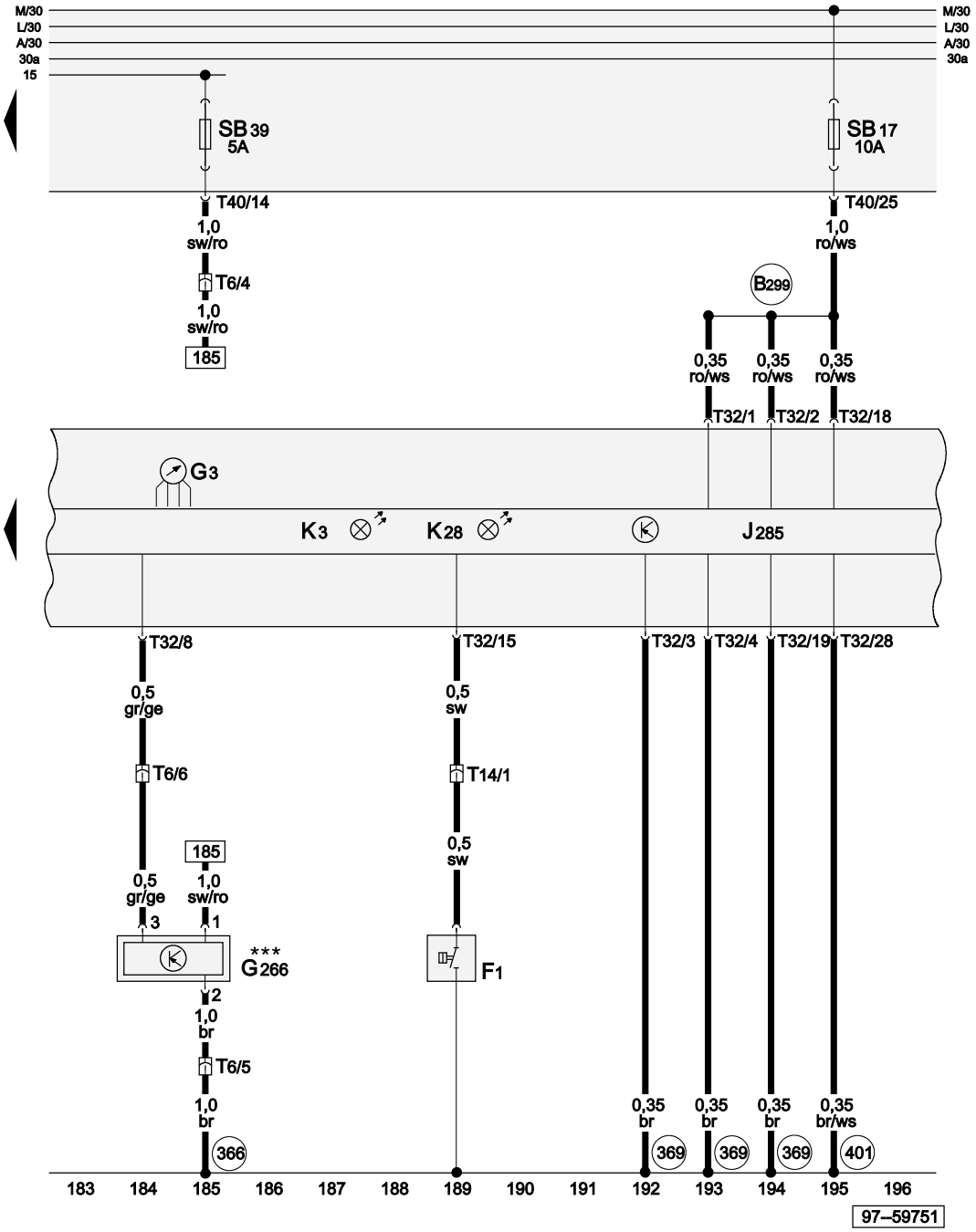


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Fuel gauge, reserve fuel warning lamp

G1	Fuel gauge
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K16	Reserve fuel warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink



Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
SB17	Fuse 17 on fuse holder
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
***	for models with extended servicing intervals (ESI) only

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1.6 l - Fuel injection engine (85 kW - FSI - 4 cylinder), engine code BLP

from model year 2005

1.6 l - Fuel injection engine (85 kW - FSI - 4 cylinder), engine code BLF

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

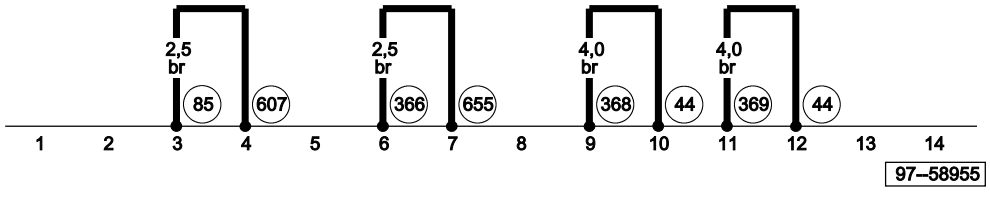
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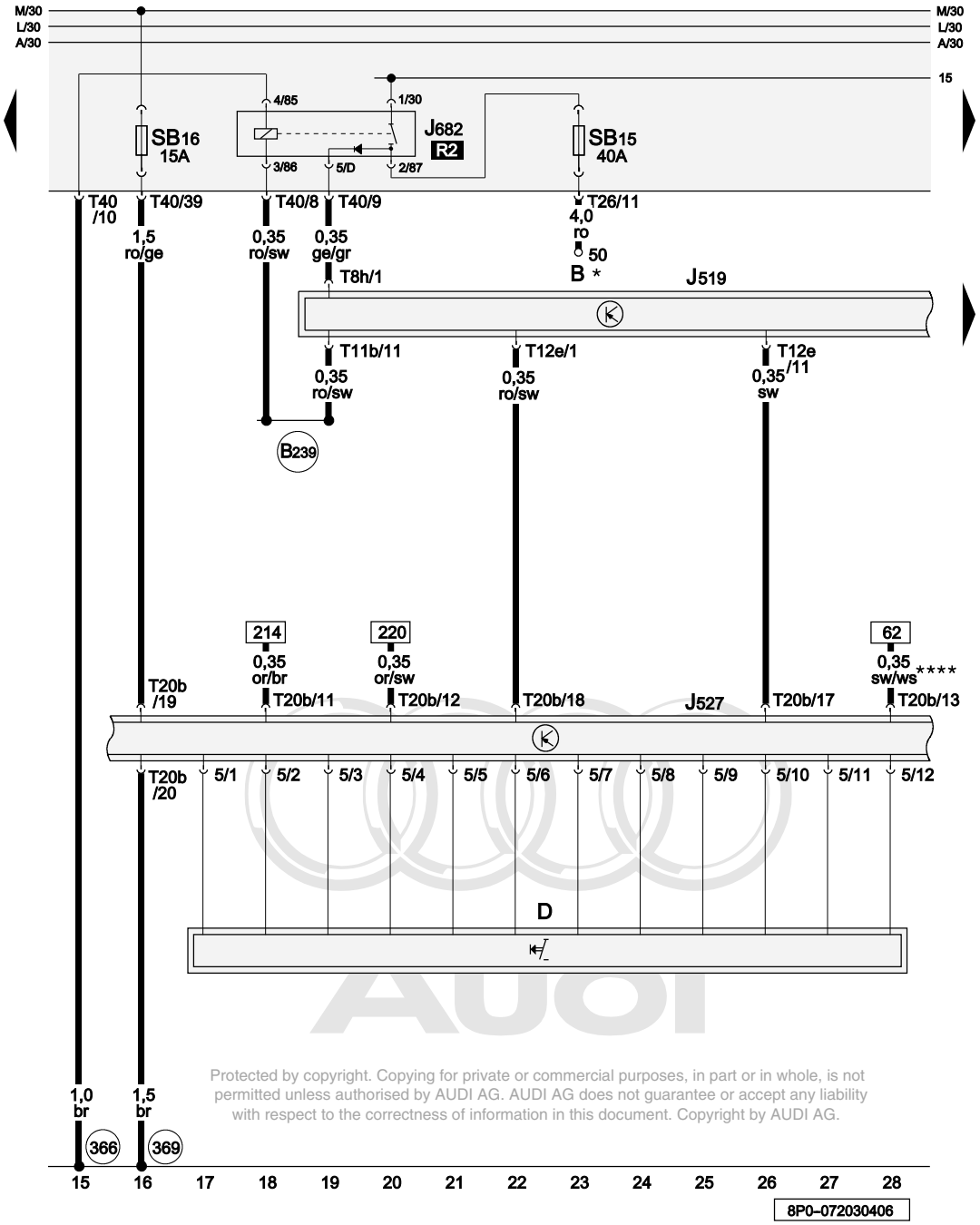
Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection 1, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight

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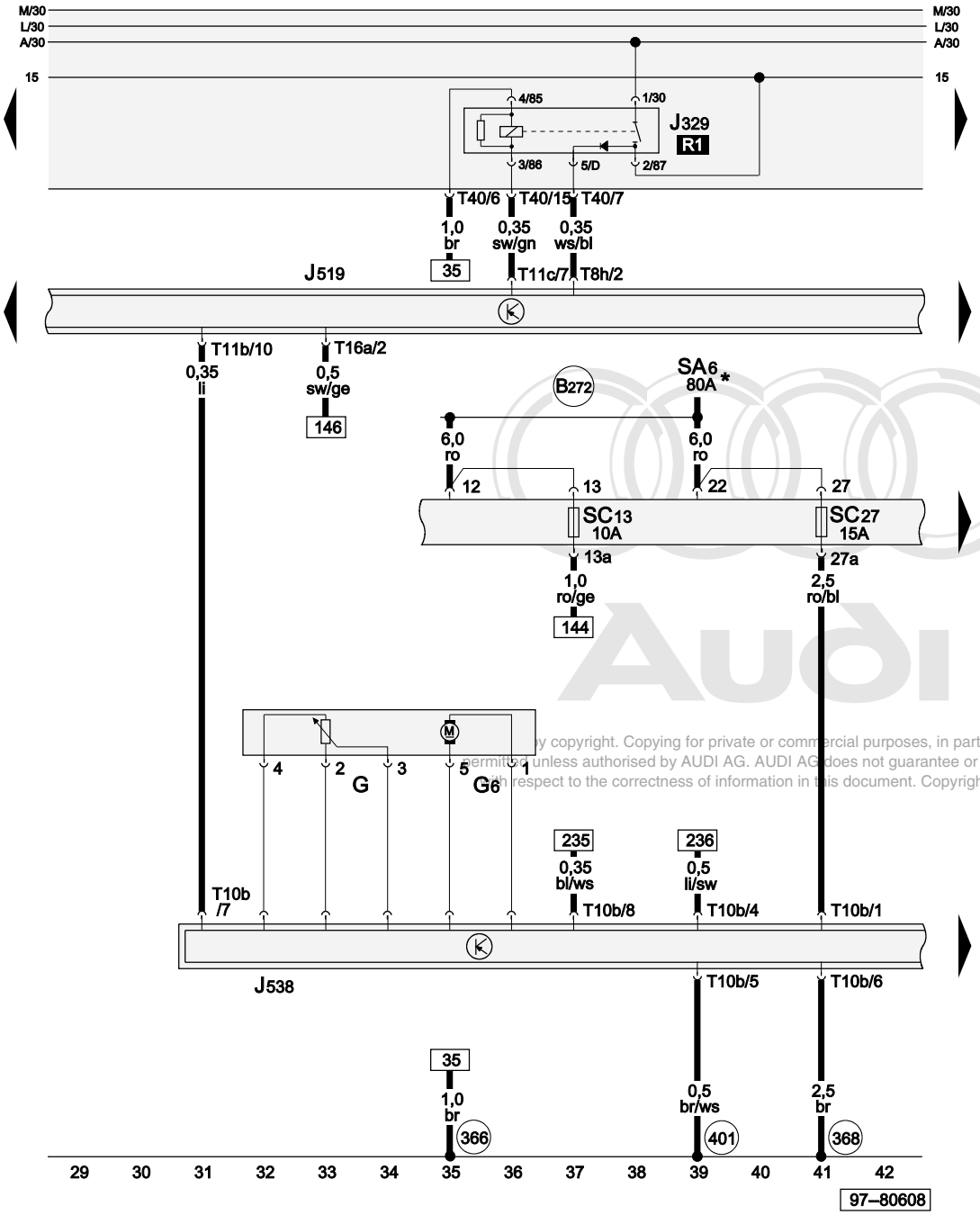


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Terminal 50 voltage supply relay, ignition/starter switch

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
****	for models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

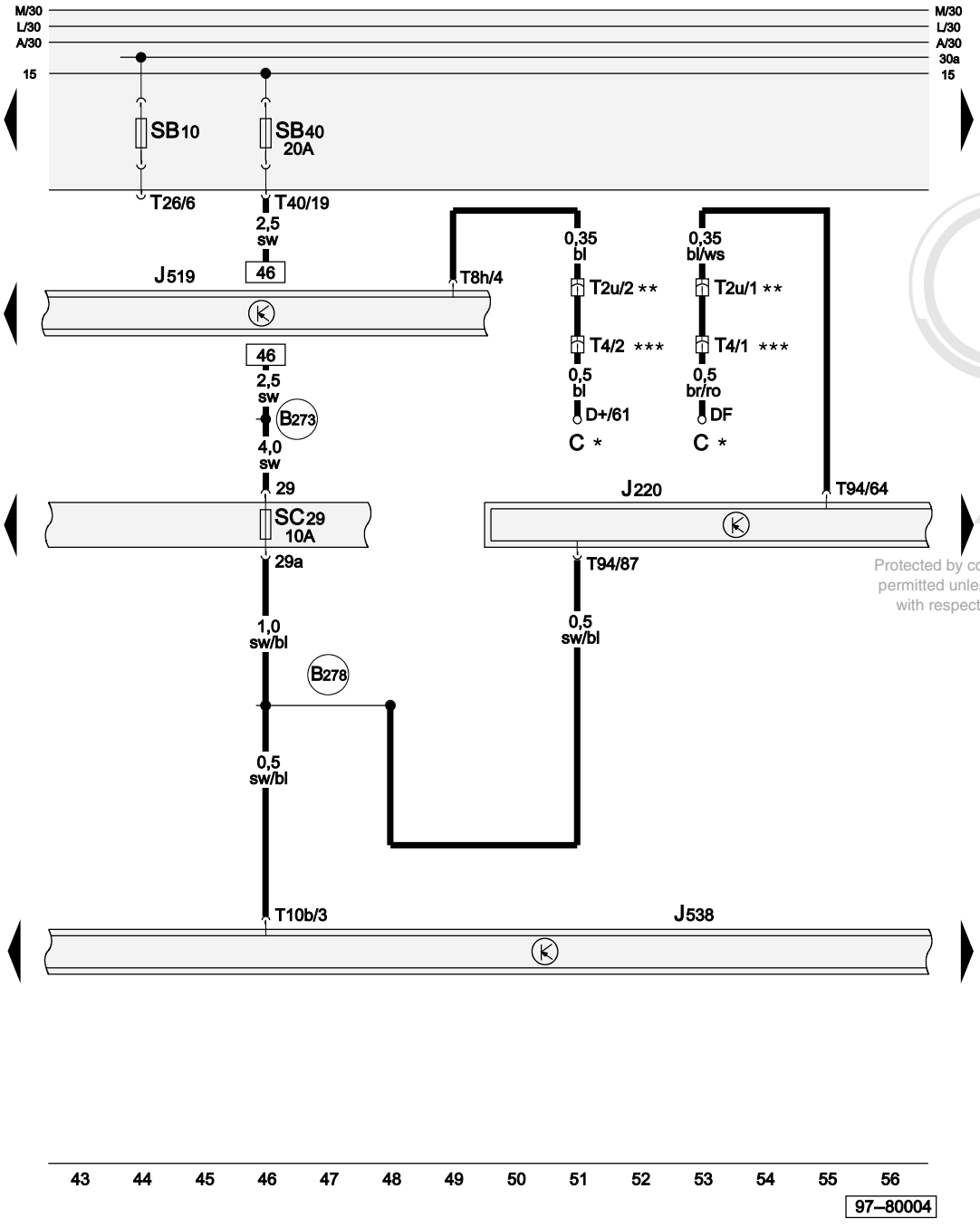


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Fuel gauge, fuel pump, terminal 15 voltage supply relay, fuse holder

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J538	Fuel pump control unit
SA6	Fuse 6 on fuse holder on battery
SC13	Fuse 13 on fuse holder
SC27	Fuse 27 on fuse holder
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment

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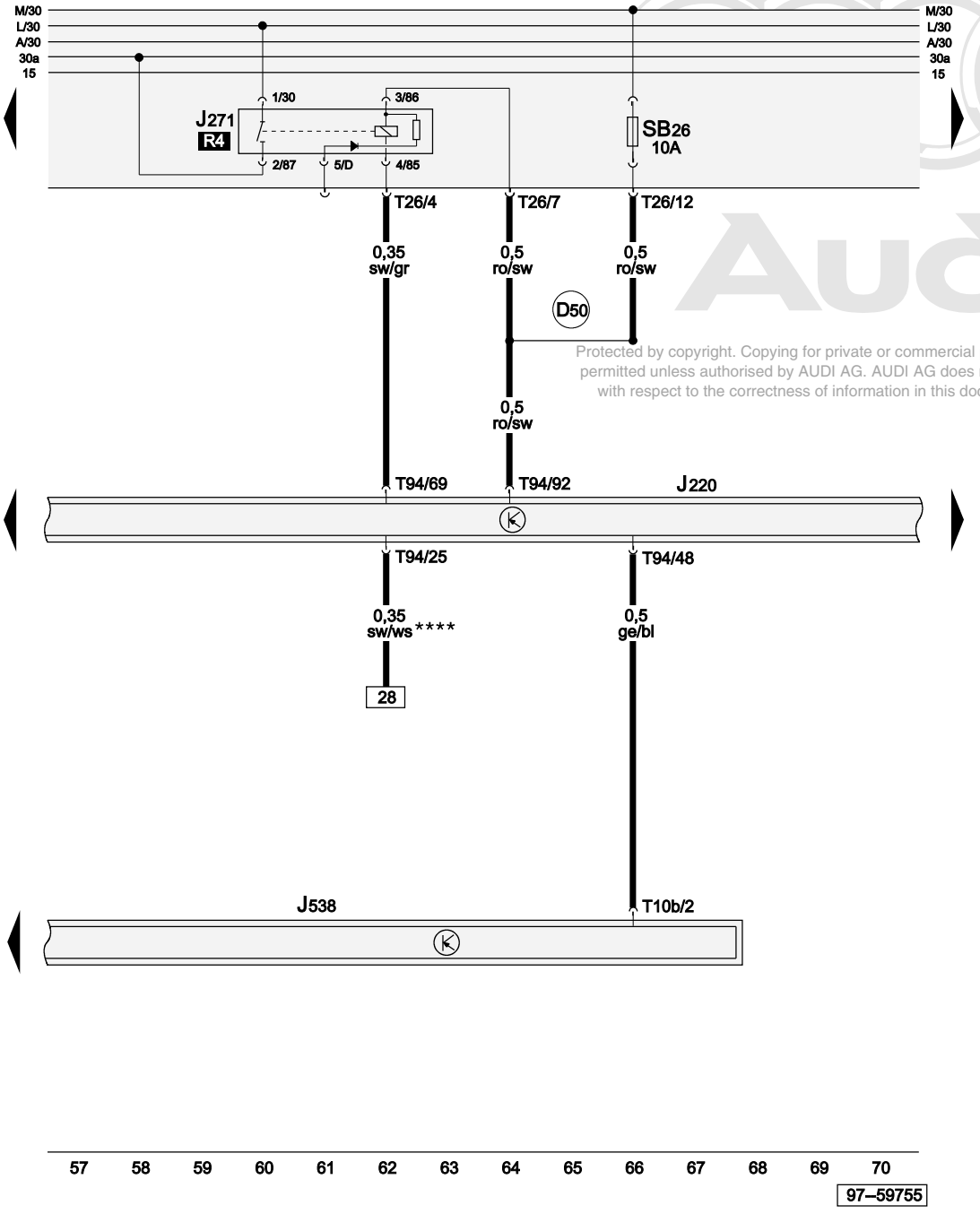


Fuse holder

C	Alternator
J220	Motronic control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
SB10	Fuse 10 on fuse holder
SB40	Fuse 40 on fuse holder
SC29	Fuse 29 on fuse holder
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only

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ge	=	yellow
or	=	orange
rs	=	pink

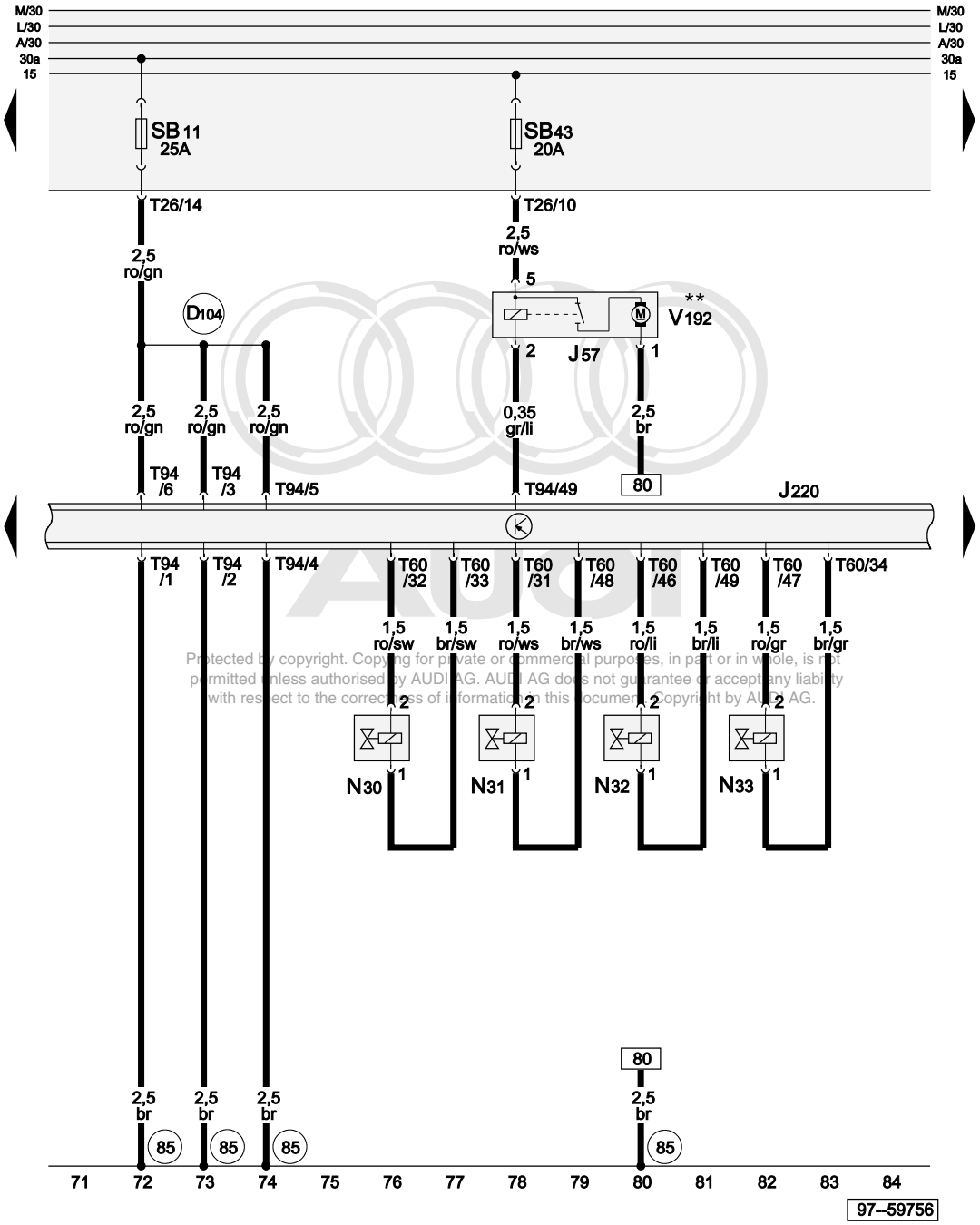


Motronic current supply relay

J220	Motronic control unit
J271	Motronic current supply relay
J538	Fuel pump control unit
SB26	Fuse 26 on fuse holder
T10b	10-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
D50	Positive connection (30), in engine compartment wiring harness
****	for models with cruise control system only

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rs	=	pink

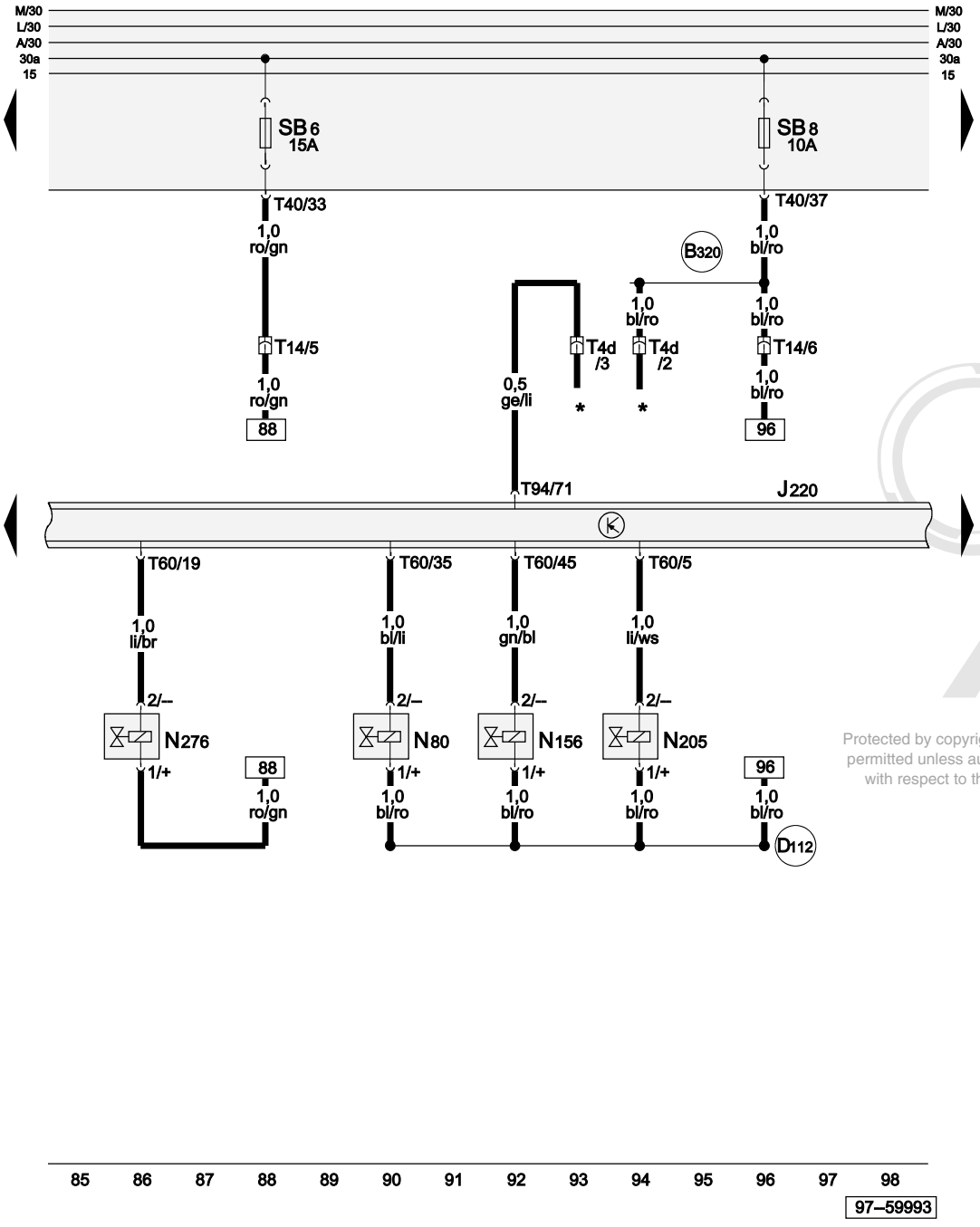


Injectors, vacuum pump for brakes

J57	Vacuum pump relay
J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SB11	Fuse 11 on fuse holder
SB43	Fuse 43 on fuse holder
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V192	Vacuum pump for brakes
85	Earth connection 1, in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
**	for models with automatic gearbox only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
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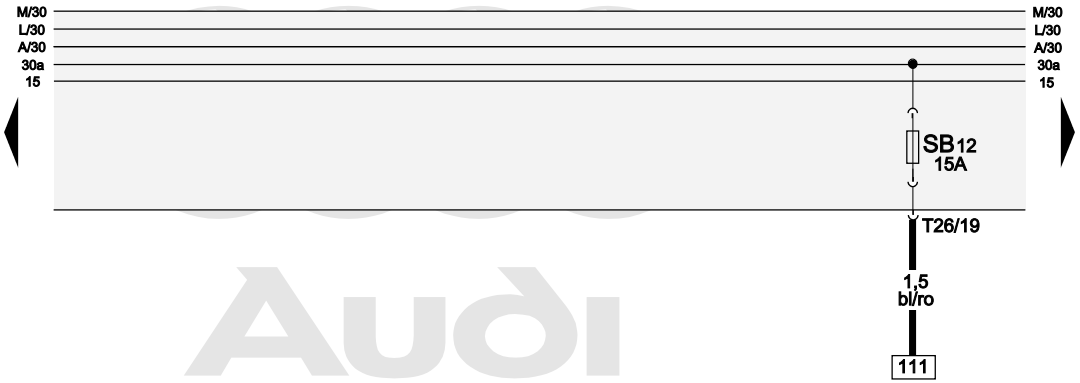


Solenoid valves

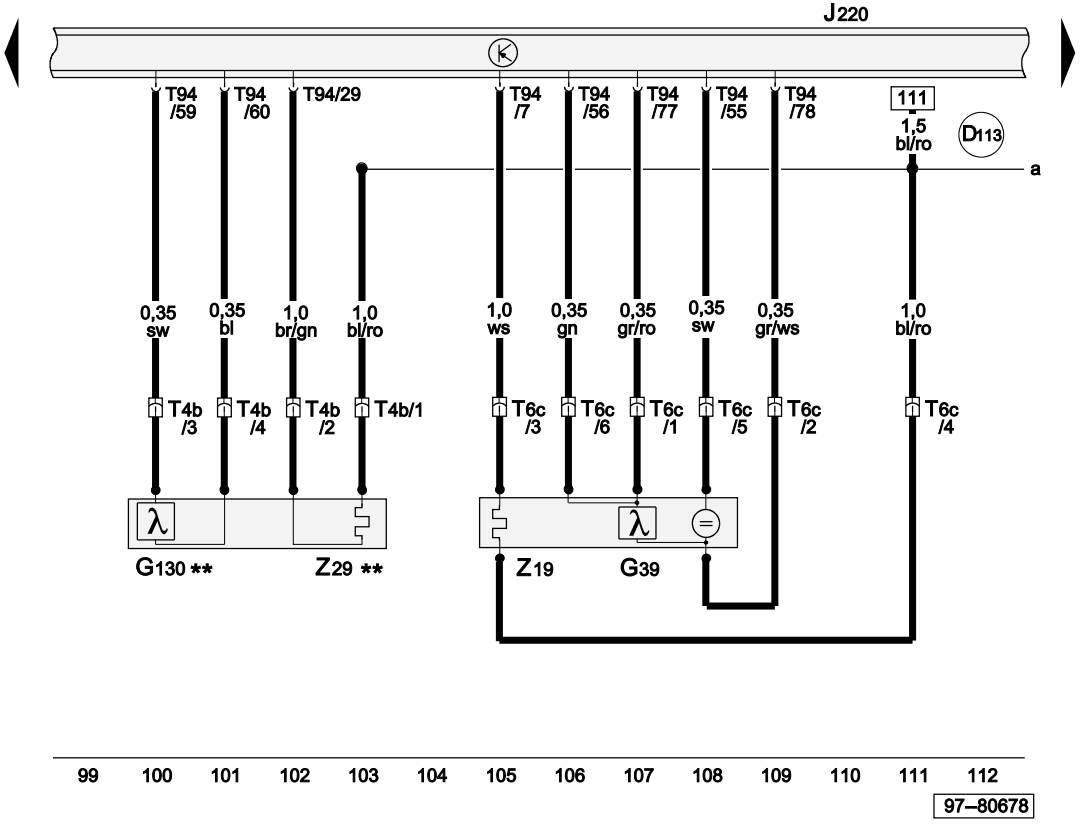
J220	Motronic control unit
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
N276	Fuel pressure regulating valve
SB6	Fuse 6 on fuse holder
SB8	Fuse 8 on fuse holder
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B320	Positive connection 6 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
*	See applicable Current Flow Diagram: radiator fan control

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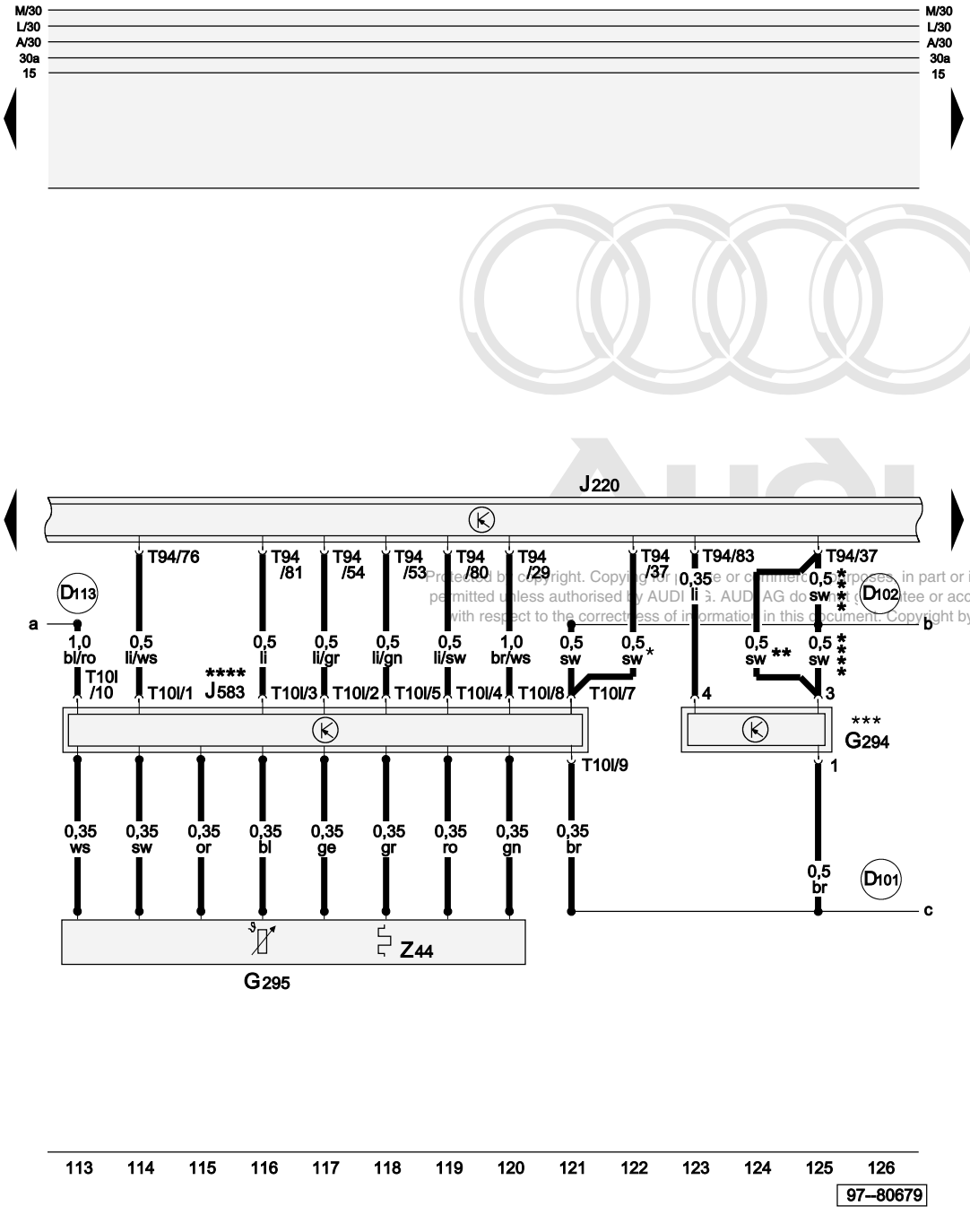
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Lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J220	Motronic control unit
SB12	Fuse 12 on fuse holder B
T4b	4-pin connector, black, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D113	Connection 11, in engine compartment wiring harness
**	for models with engine code BLF only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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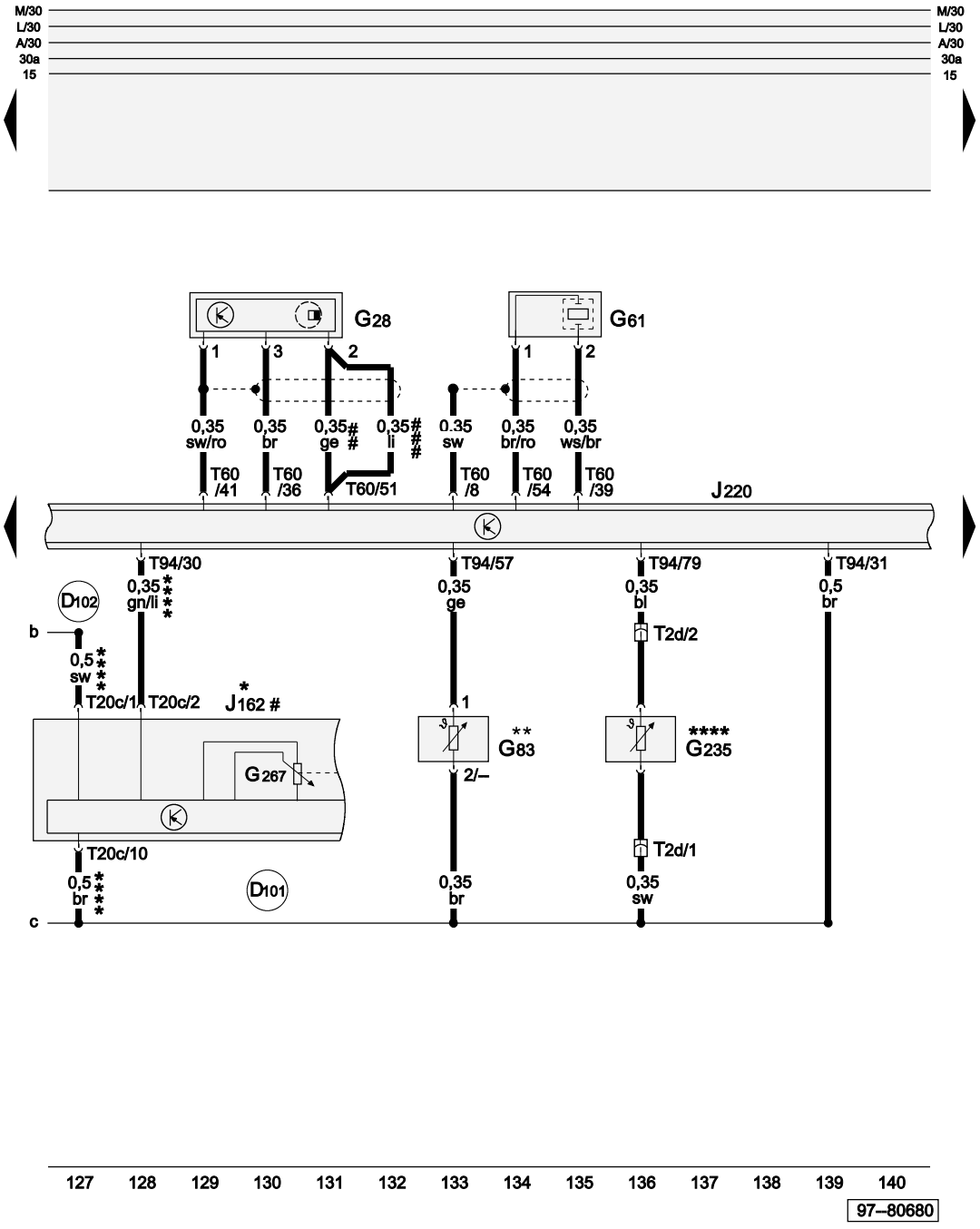


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NOx sensor control unit, brake servo pressure sensor

G294	Brake servo pressure sensor
G295	NOx sender
J220	Motronic control unit
J583	NOx sensor control unit
T10l	10-pin connector, black, on NOx sensor control unit
T94	94-pin connector, black (connector B)
Z44	NOx sender heater
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness
D113	Connection 11, in engine compartment wiring harness
*	for models with air conditioning system and anti-lock brake system with automatic gearbox (09G) only
**	for models with engine code BLF only
***	for models with brake servo pressure sensor only
****	for models with engine code BLP only

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sw	=	black
ro	=	red
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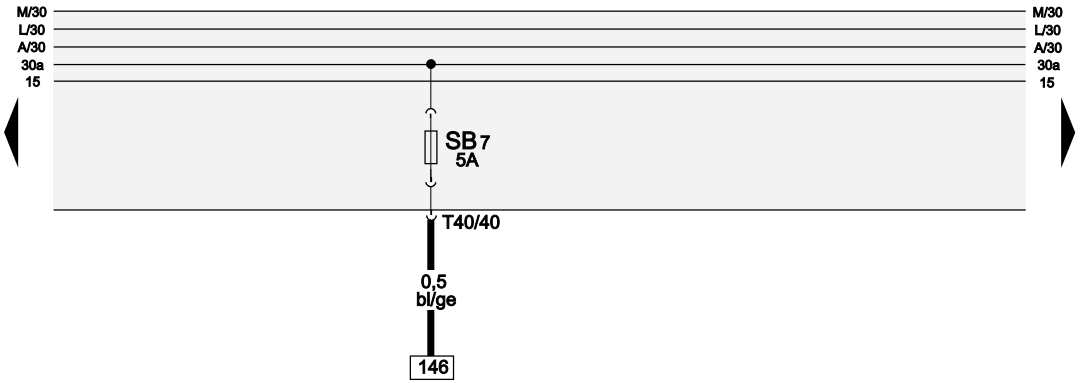


Radiator outlet coolant temperature sender, exhaust gas temperature sender 1, engine speed sender, knock sensor 1

G28	Engine speed sender
G61	Knock sensor 1
G83	Radiator outlet coolant temperature sender
G235	Exhaust gas temperature sender 1
G267	Potentiometer for temperature selection rotary knob
J162	Heater control unit
J220	Motronic control unit
T2d	2-pin connector, black, on exhaust gas temperature sender 1
T20c	20-pin connector, black (connector A)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness
*	for models without air conditioning system only
**	for models with air conditioning system only
****	for models with engine code BLP only
#	J65 is replaced by J162
##	for models with manual gearbox only
###	for models with automatic gearbox only

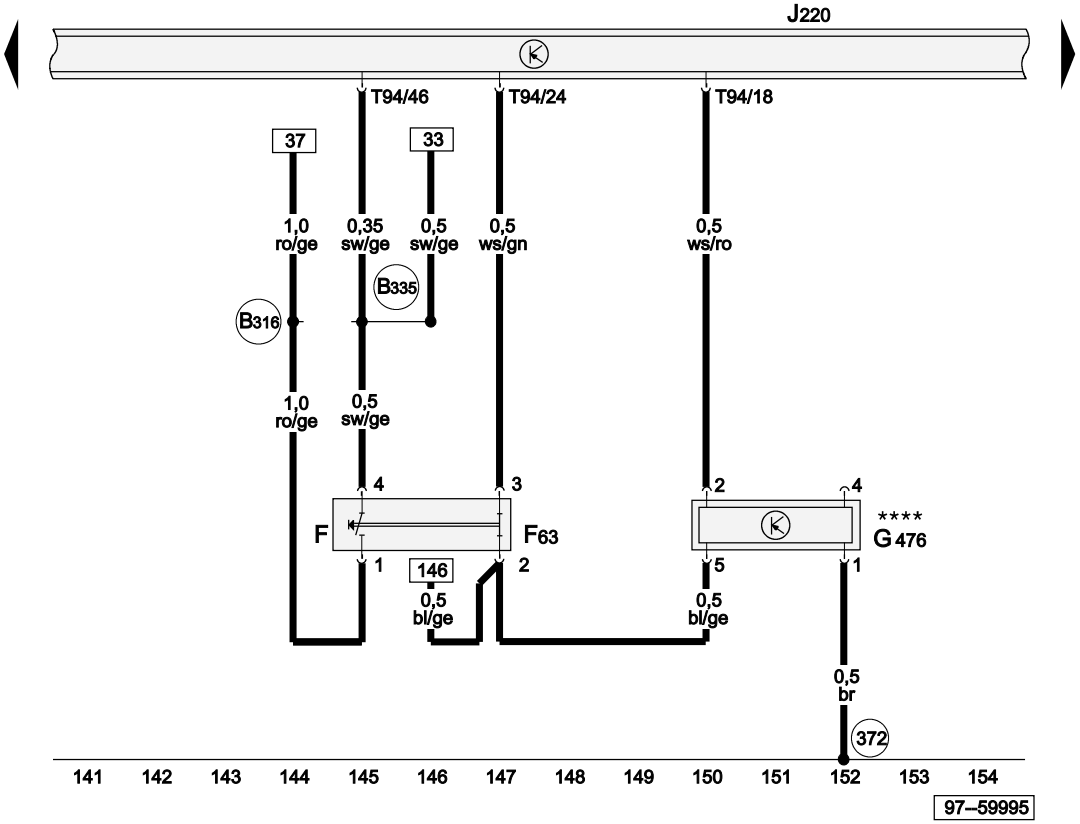
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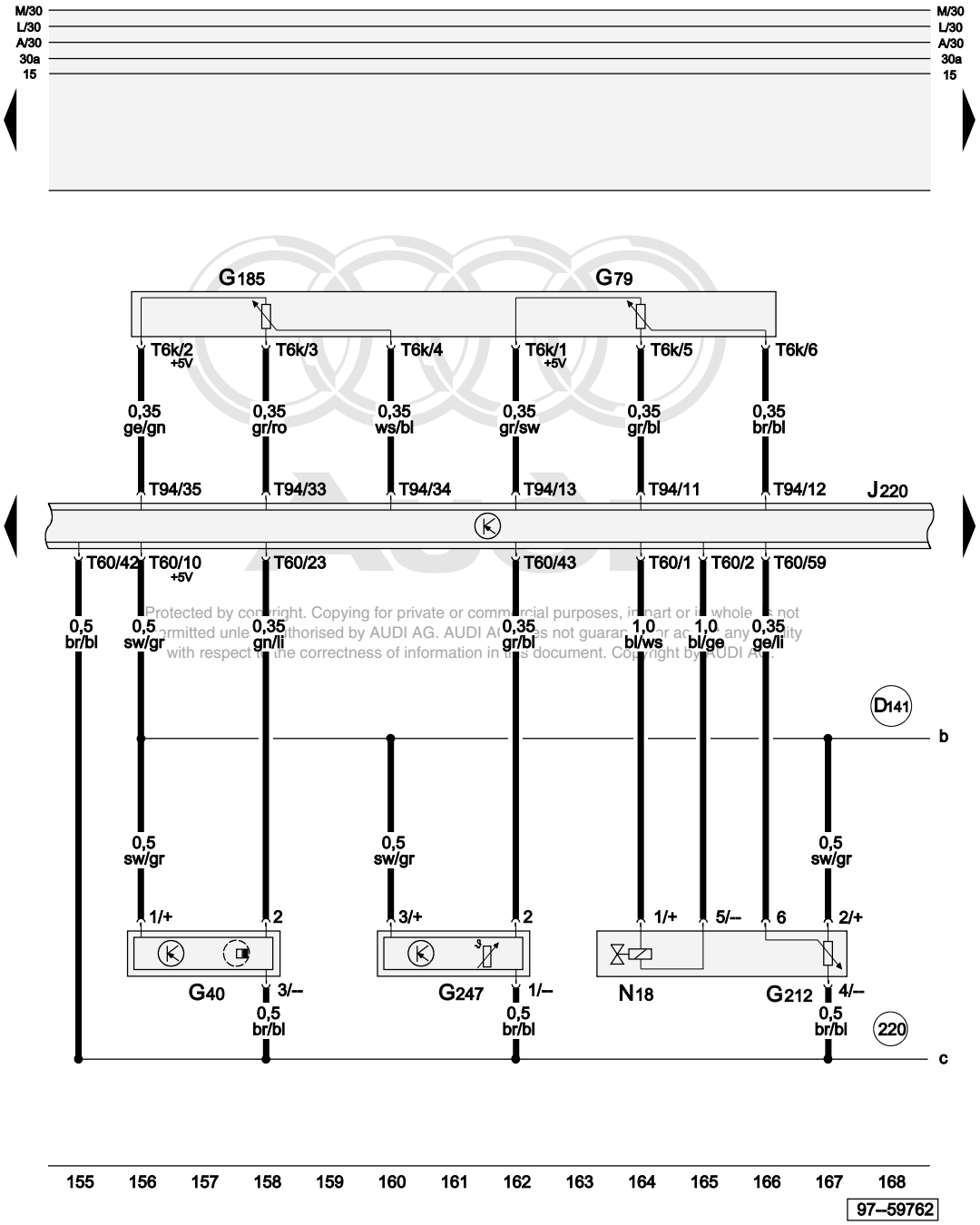
Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
SB7	Fuse 7 on fuse holder
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
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or	=	orange
rs	=	pink

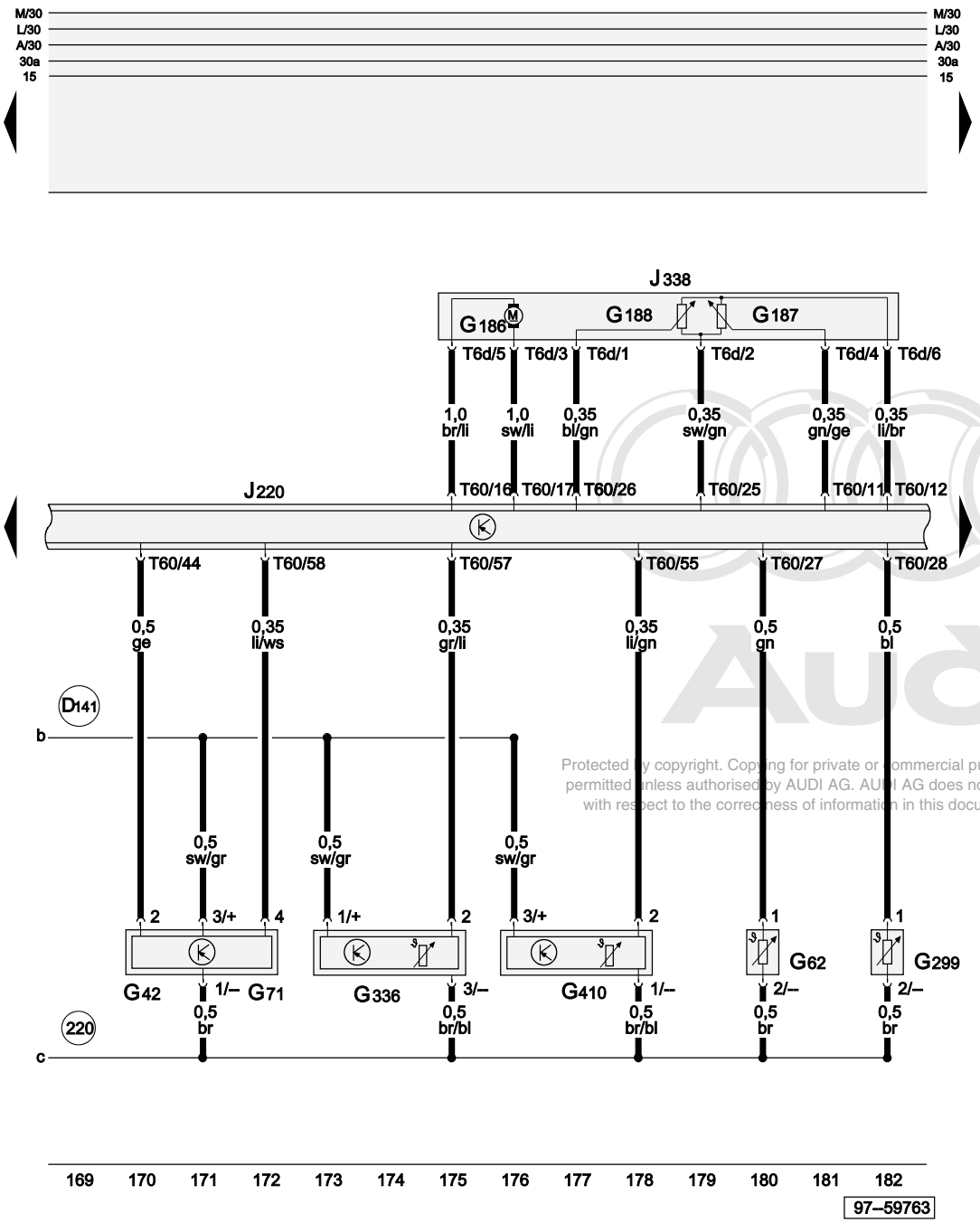


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Hall sender, accelerator position sender, fuel pressure sender

G40	Hall sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
J220	Motronic control unit
N18	Exhaust gas recirculation valve
T6k	6-pin connector, black, near accelerator position sender
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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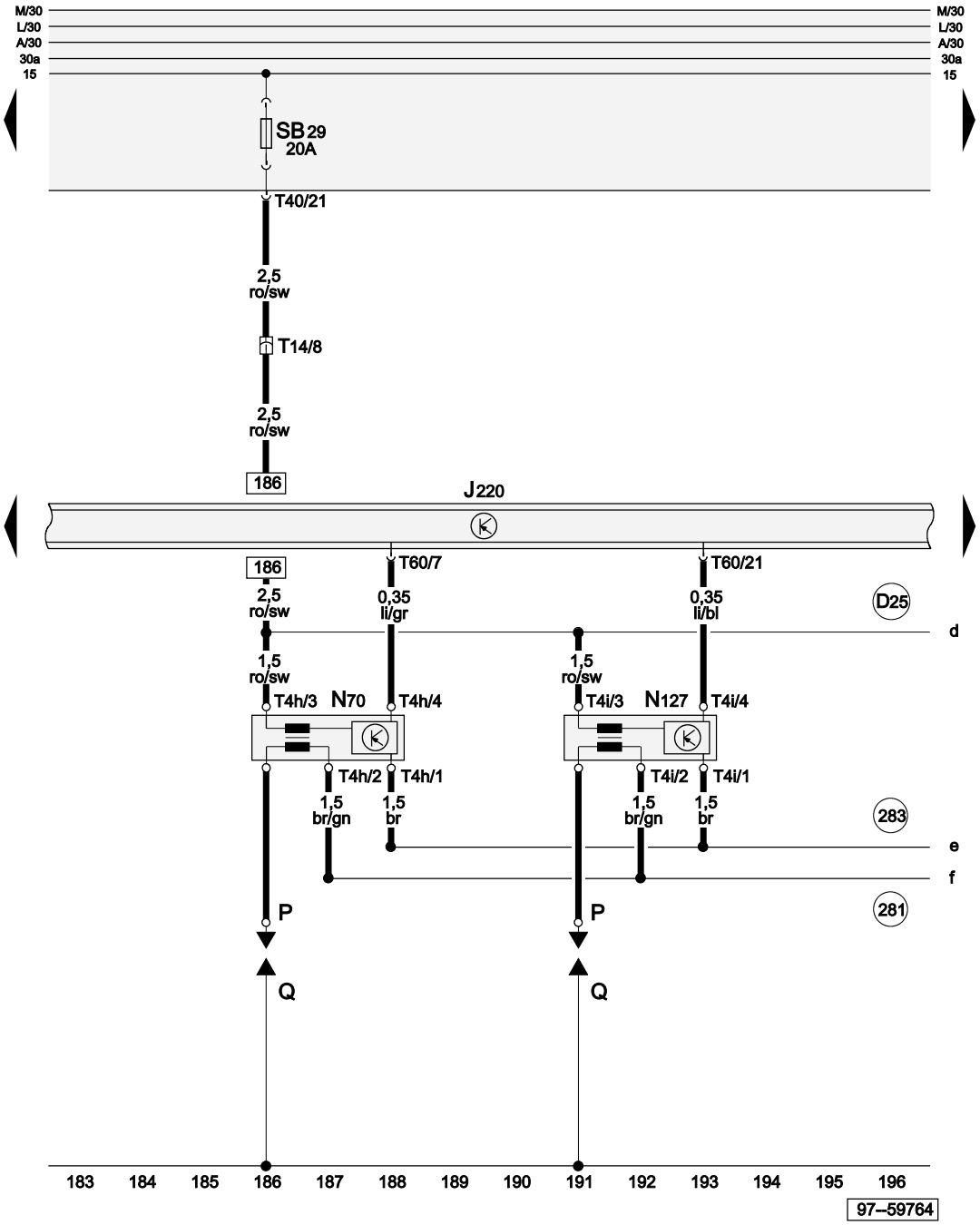


Intake air temperature sender, coolant temperature, intake manifold pressure

G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
G186	Throttle valve drive, electric throttle
G187	Throttle valve drives angle sender 1, electric throttle
G188	Throttle valve drives angle sender 2, electric throttle
G299	Intake air temperature sender 2
G336	Intake manifold flap potentiometer
G410	Fuel pressure sender, low pressure
J220	Motronic control unit
J338	Throttle valve module
T6d	6-pin connector, black, near throttle valve module
T60	60-pin connector, black (connector A)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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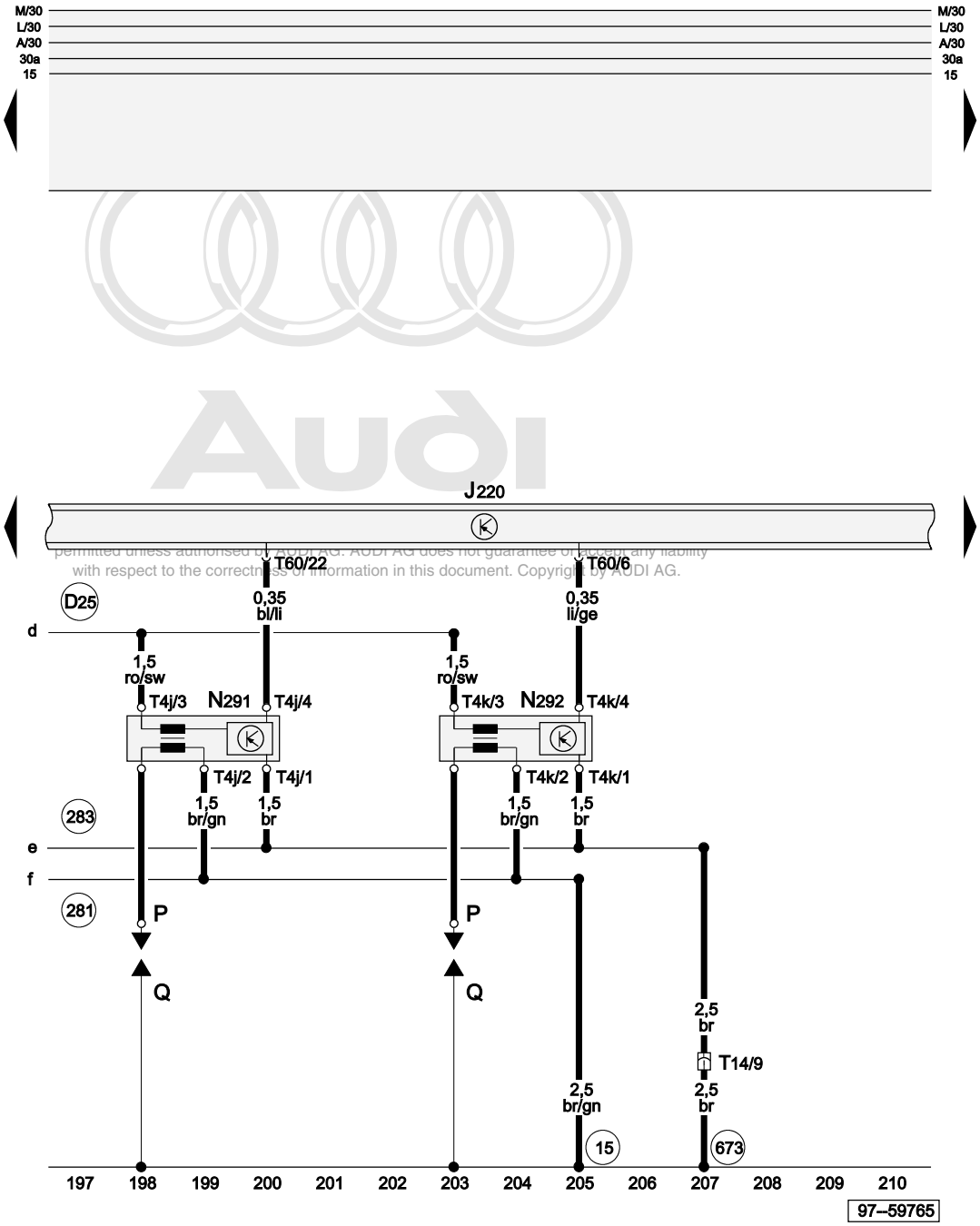


Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
P	Spark plug connector
Q	Spark plugs
SB29	Fuse 29 on fuse holder
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
D25	Positive connection (15), in engine wiring harness

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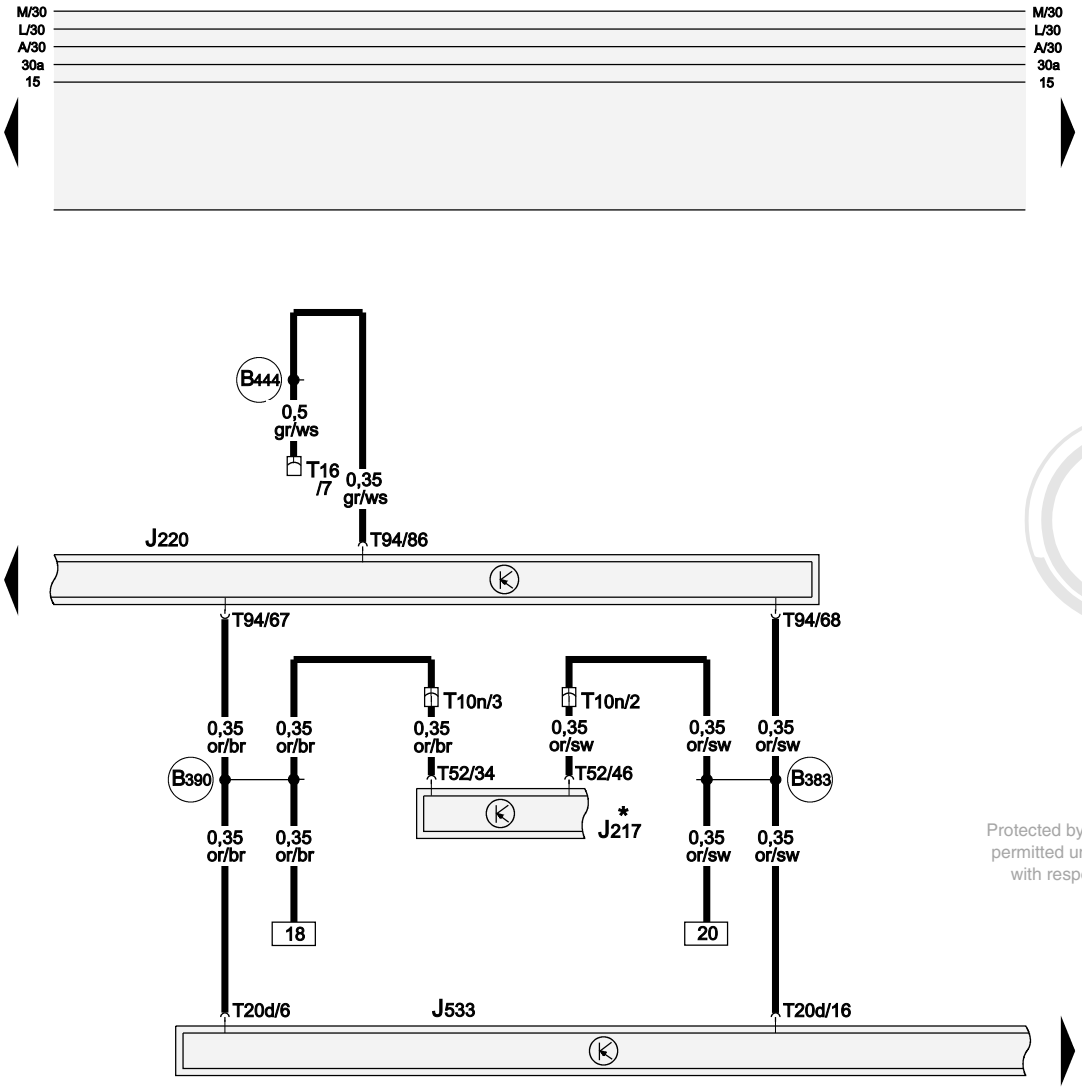


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Ignition coils 3 and 4 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4j	4-pin connector, black, on ignition coil 3 with output stage
T4k	4-pin connector, black, on ignition coil 4 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
15	Earth point, on cylinder head
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
673	Earth point 3, on front of left longitudinal member
D25	Positive connection (15), in engine wiring harness

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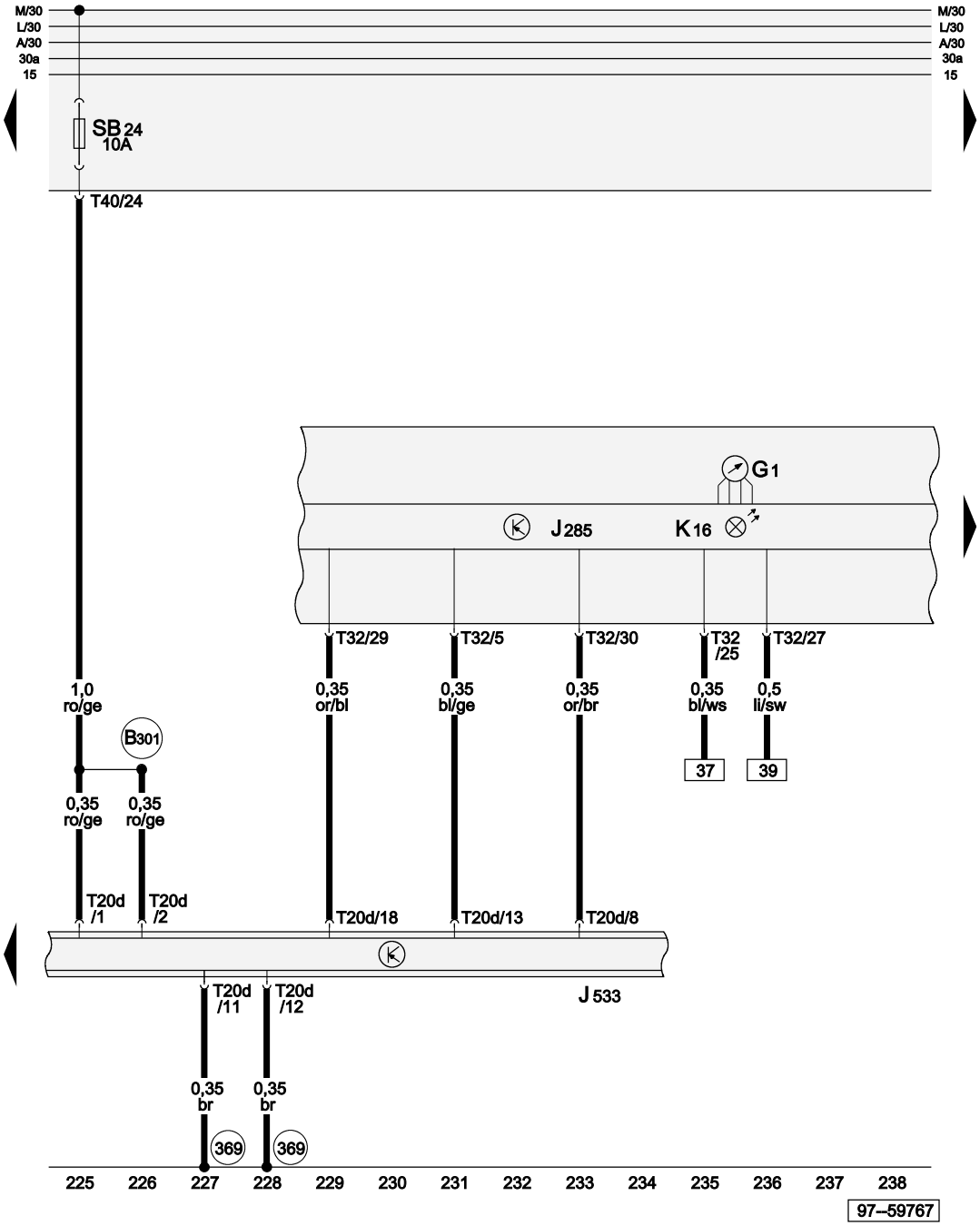


Drive train CAN bus, K-diagnosis wiring

J217	Automatic gearbox control unit
J220	Motronic control unit
J533	Data bus diagnostic interface
T10n	10-pin connector, black, near longitudinal member, front left
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with automatic gearbox (09G) only

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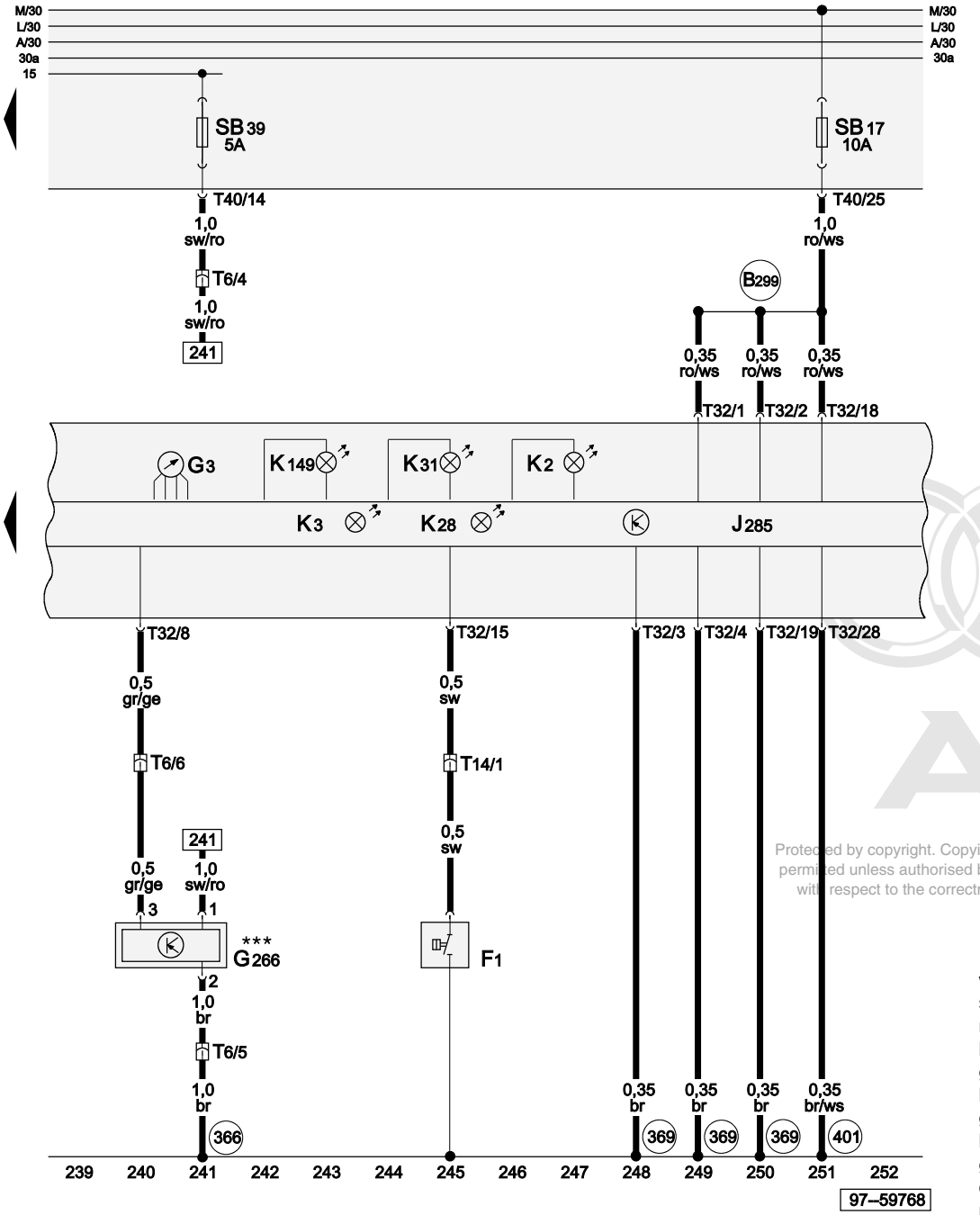


Fuel gauge, reserve fuel warning lamp

G1	Fuel gauge
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K16	Reserve fuel warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
***	for models with extended servicing intervals (ESI) only

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gn	=	green
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2.0 l - Fuel injection engine (110 kW - FSI - 4 cylinder), engine code BLX

from model year 2005

2.0 l - Fuel injection engine (110 kW - FSI - 4 cylinder), engine code BLR

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

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⇒ List of Fitting Locations!

For information concerning

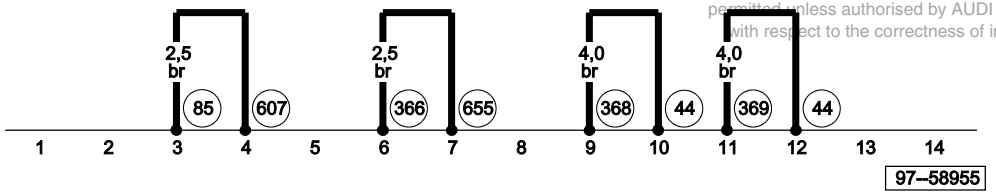
- Fault Finding Programs

⇒ guided fault finding



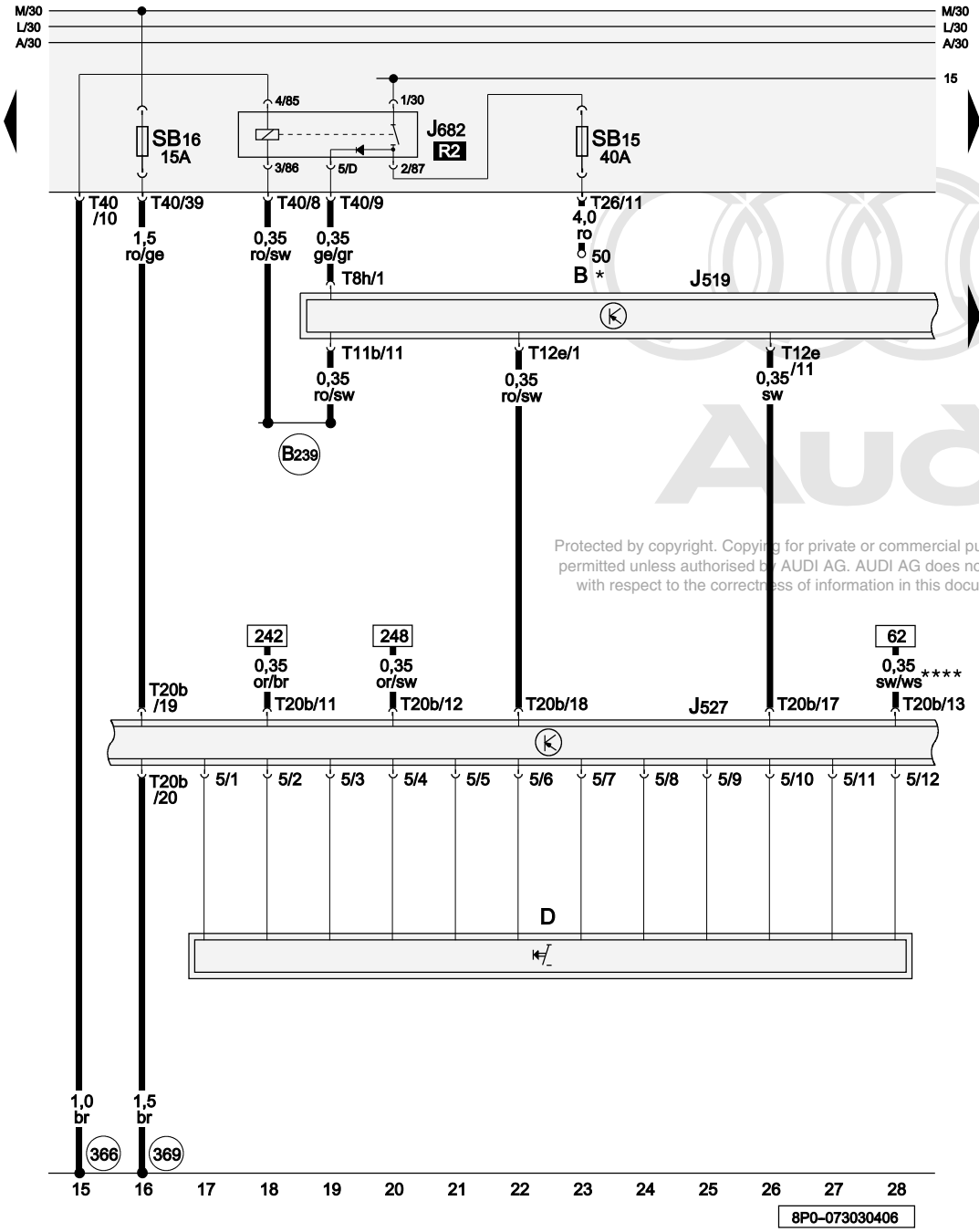
Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection 1, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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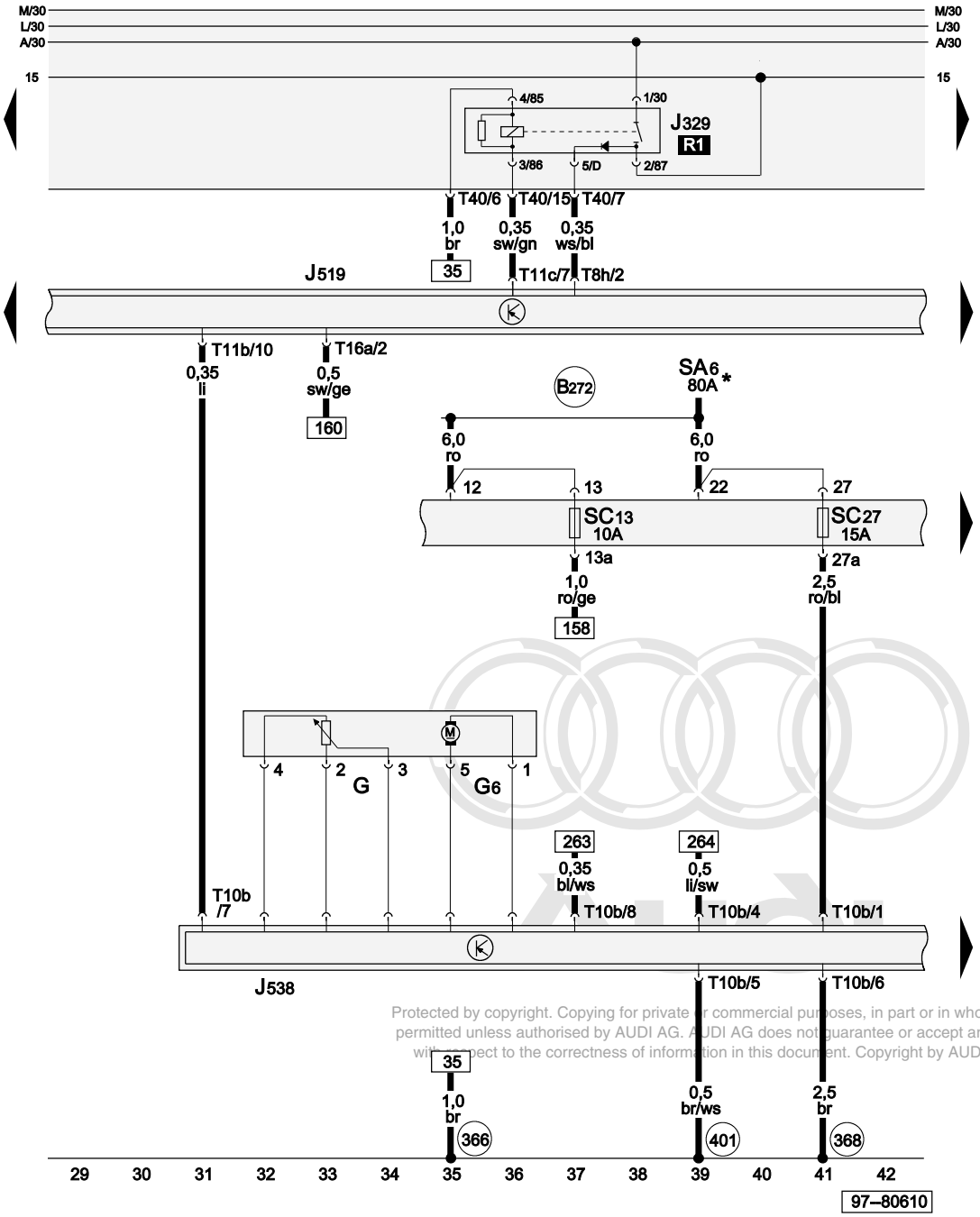


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Terminal 50 voltage supply relay, ignition/starter switch

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
****	for models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
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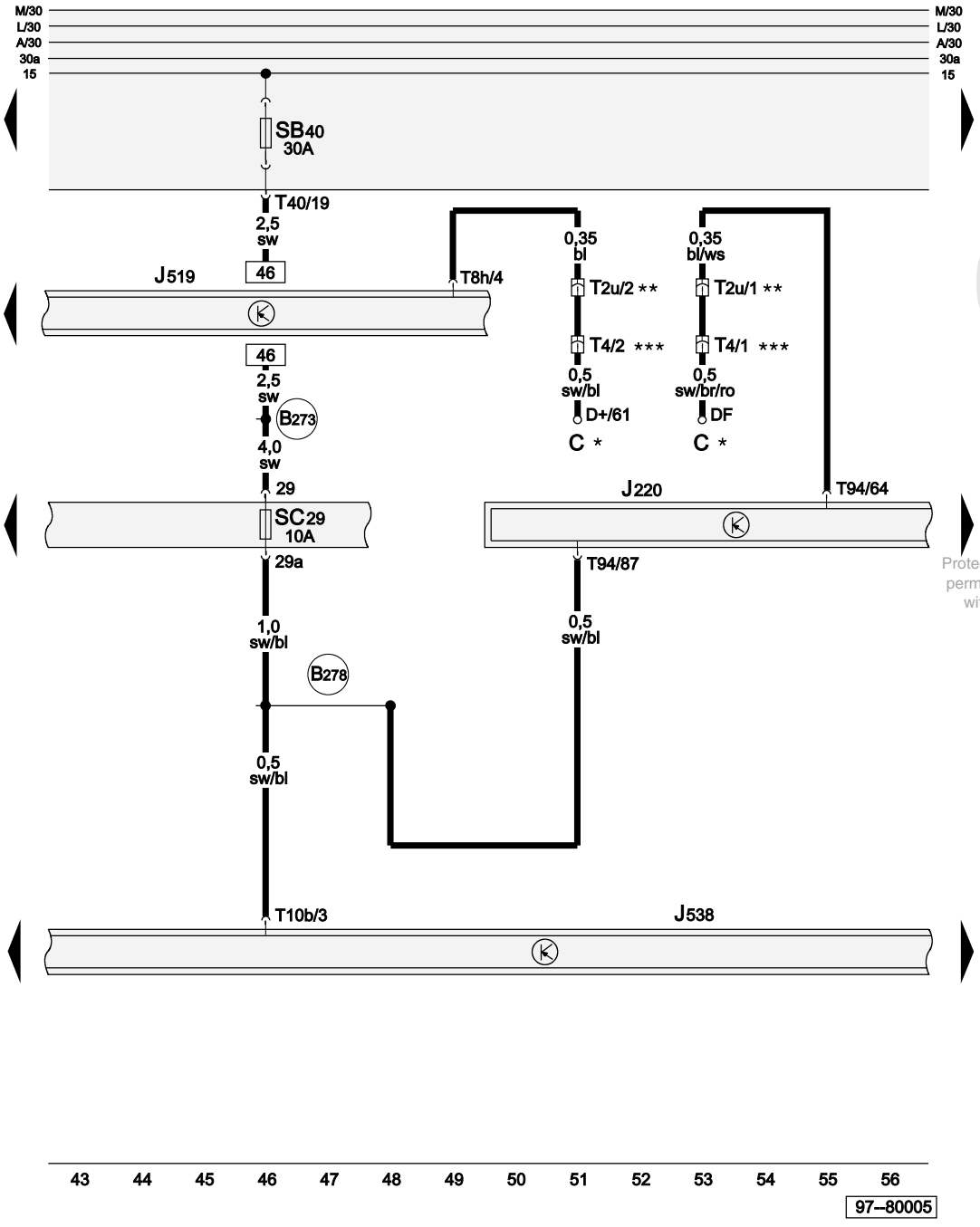


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Fuel gauge, fuel pump, terminal 15 voltage supply relay, fuse holder

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J538	Fuel pump control unit
SA6	Fuse 6 on fuse holder on battery
SC13	Fuse 13 on fuse holder
SC27	Fuse 27 on fuse holder
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	for models with manual gearbox only

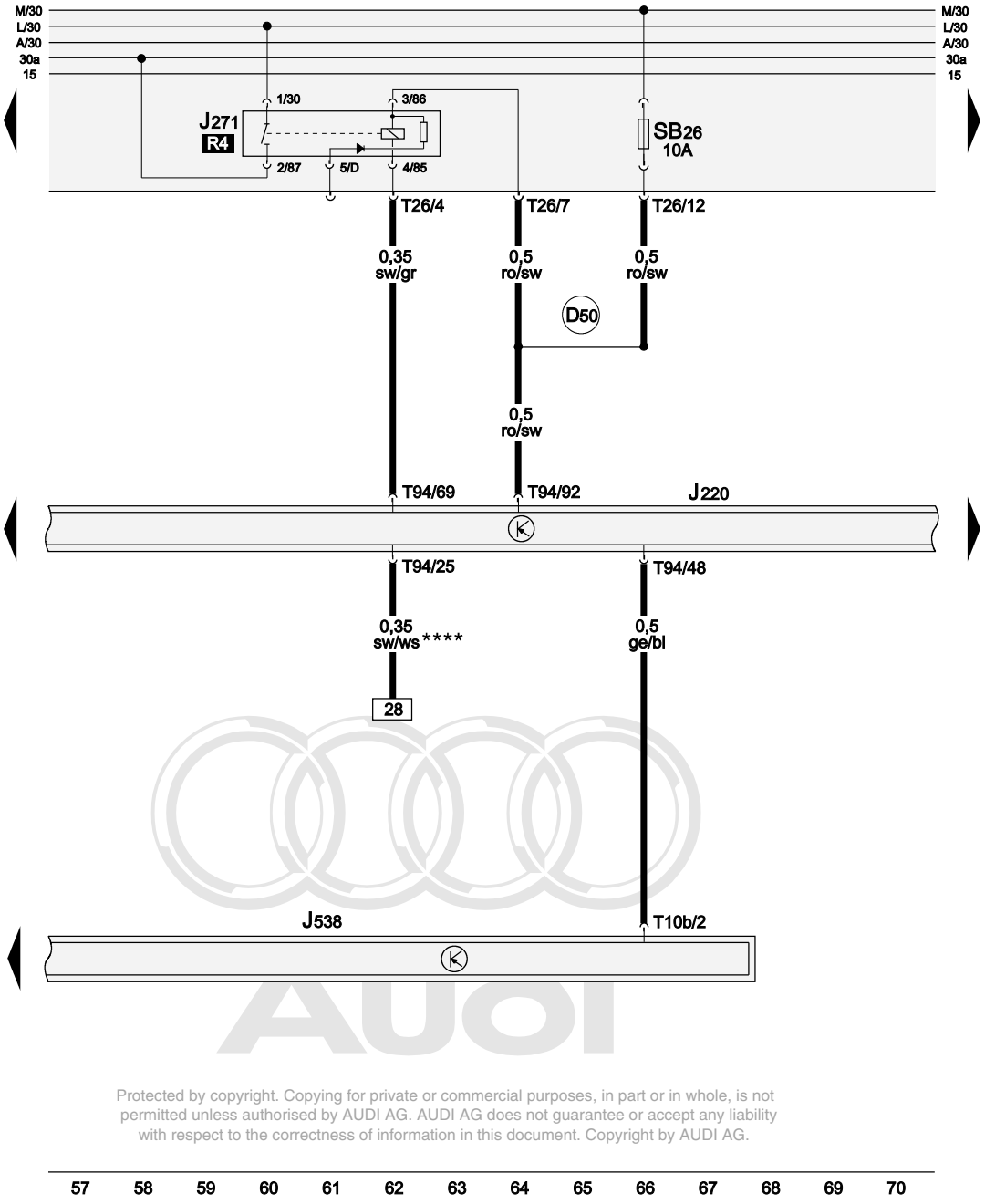


Fuse holder

C	Alternator
J220	Motronic control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
SB40	Fuse 40 on fuse holder
SC29	Fuse 29 on fuse holder
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only

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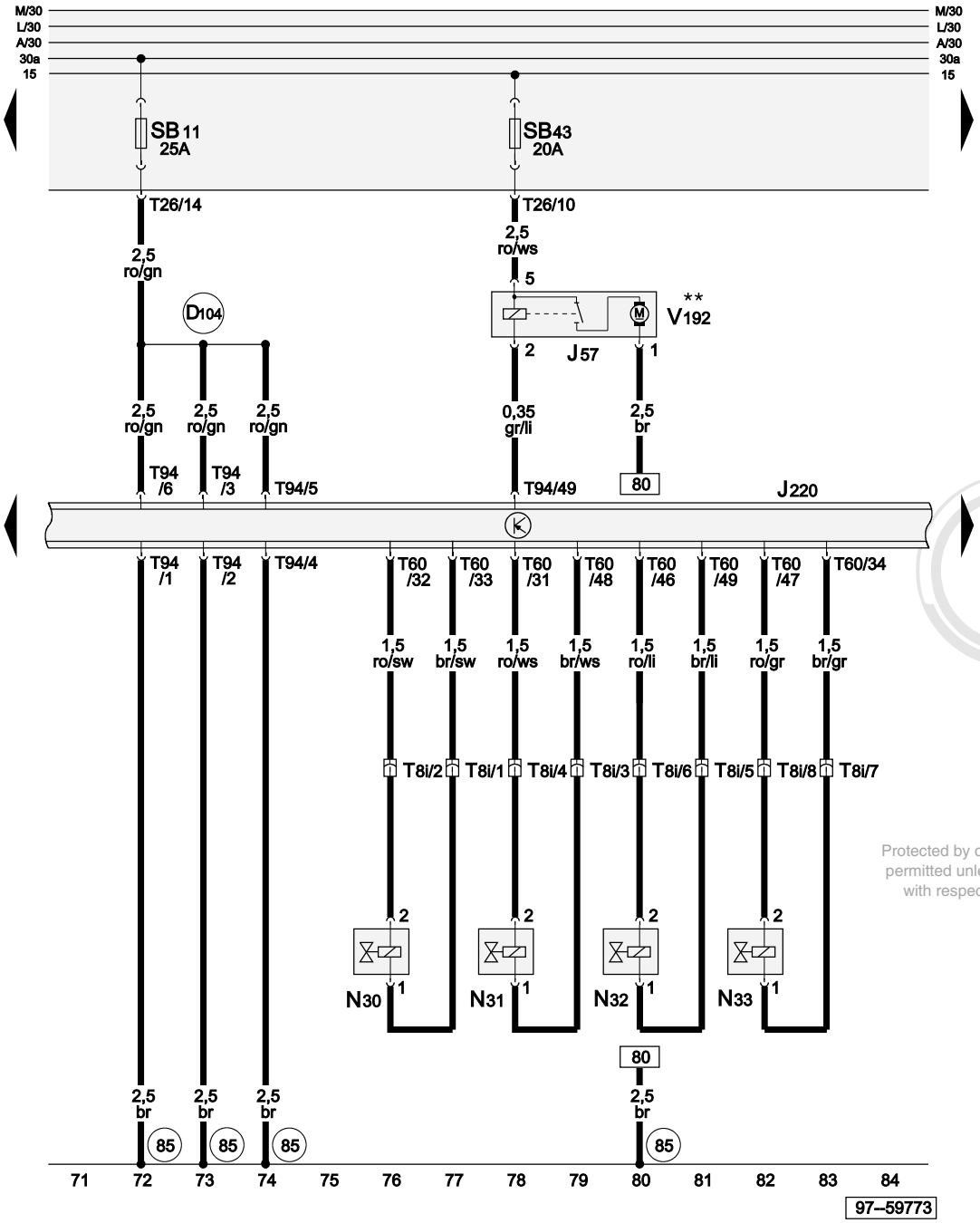


Motronic current supply relay

J220	Motronic control unit
J271	Motronic current supply relay
J538	Fuel pump control unit
SB26	Fuse 26 on fuse holder
T10b	10-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
D50	Positive connection (30), in engine compartment wiring harness
****	for models with cruise control system only

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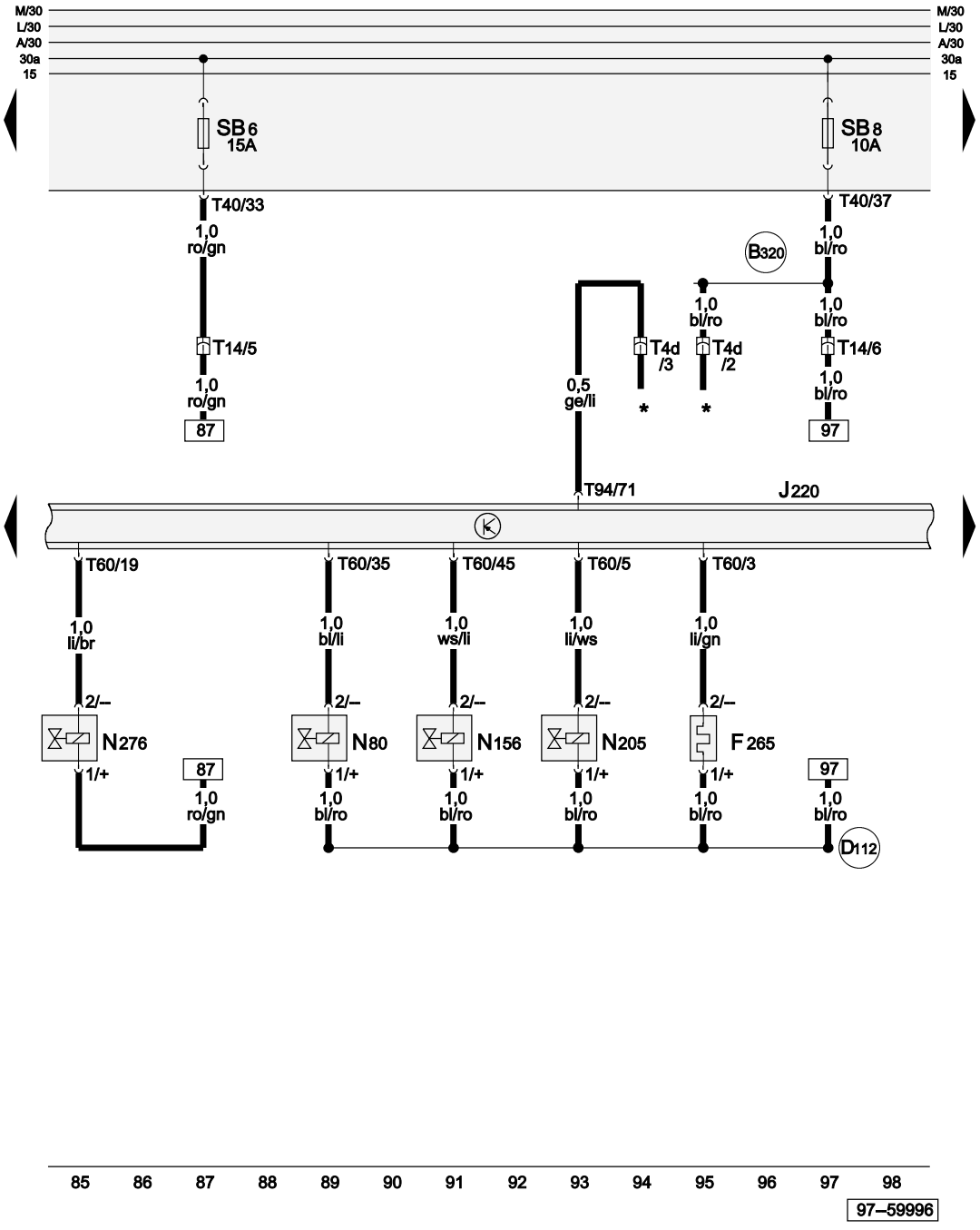


Injectors, vacuum pump for brakes

J57	Vacuum pump relay
J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SB11	Fuse 11 on fuse holder
SB43	Fuse 43 on fuse holder
T8i	8-pin connector, black, near injectors
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V192	Vacuum pump for brakes
85	Earth connection 1, in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
**	for models with automatic gearbox only

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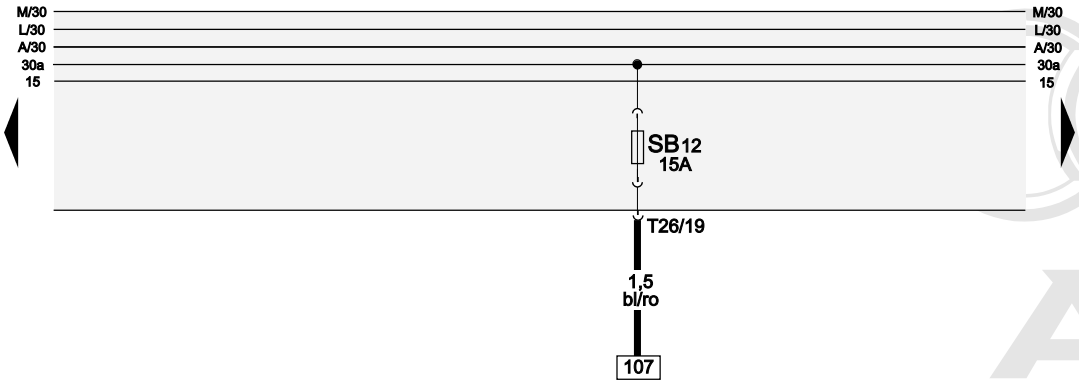


Solenoid valves, map-controlled engine cooling system thermostat

F265	Map-controlled engine cooling system thermostat
J220	Motronic control unit
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
N276	Fuel pressure regulating valve
SB6	Fuse 6 on fuse holder
SB8	Fuse 8 on fuse holder
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B320	Positive connection 6 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
*	See applicable Current Flow Diagram: radiator fan control

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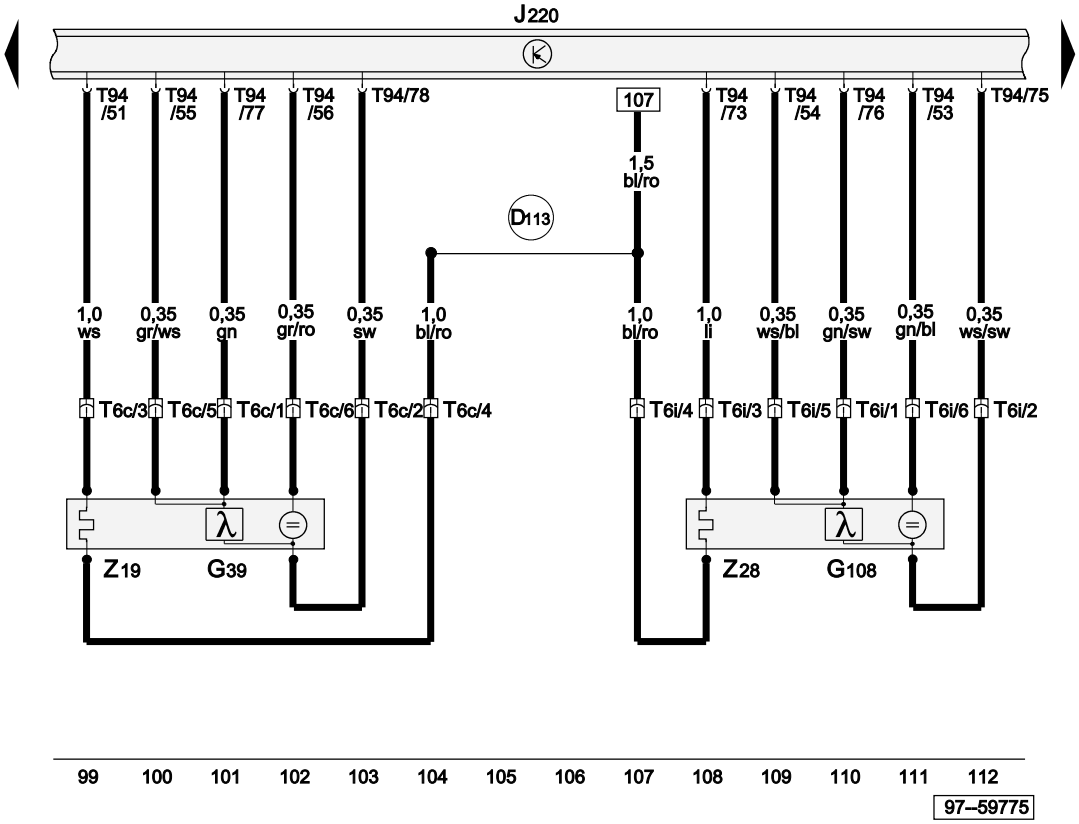
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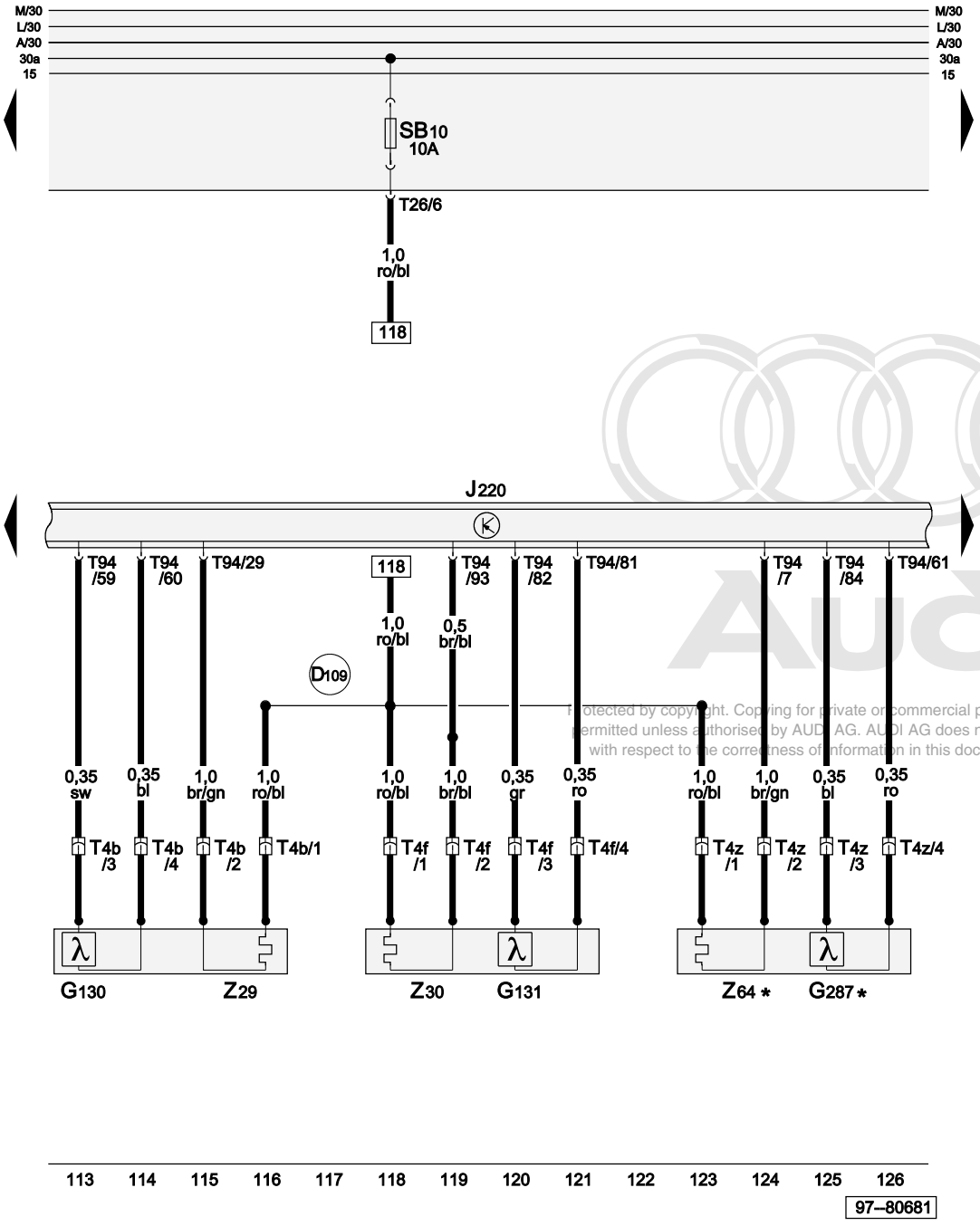
Lambda probe, lambda probe 2

G39	Lambda probe
G108	Lambda probe 2
J220	Motronic control unit
SB12	Fuse 12 on fuse holder
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T6i	6-pin connector, brown, on lambda probe 2 upstream of catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
Z28	Lambda probe 2 heater
D113	Connection 11 in engine compartment wiring harness

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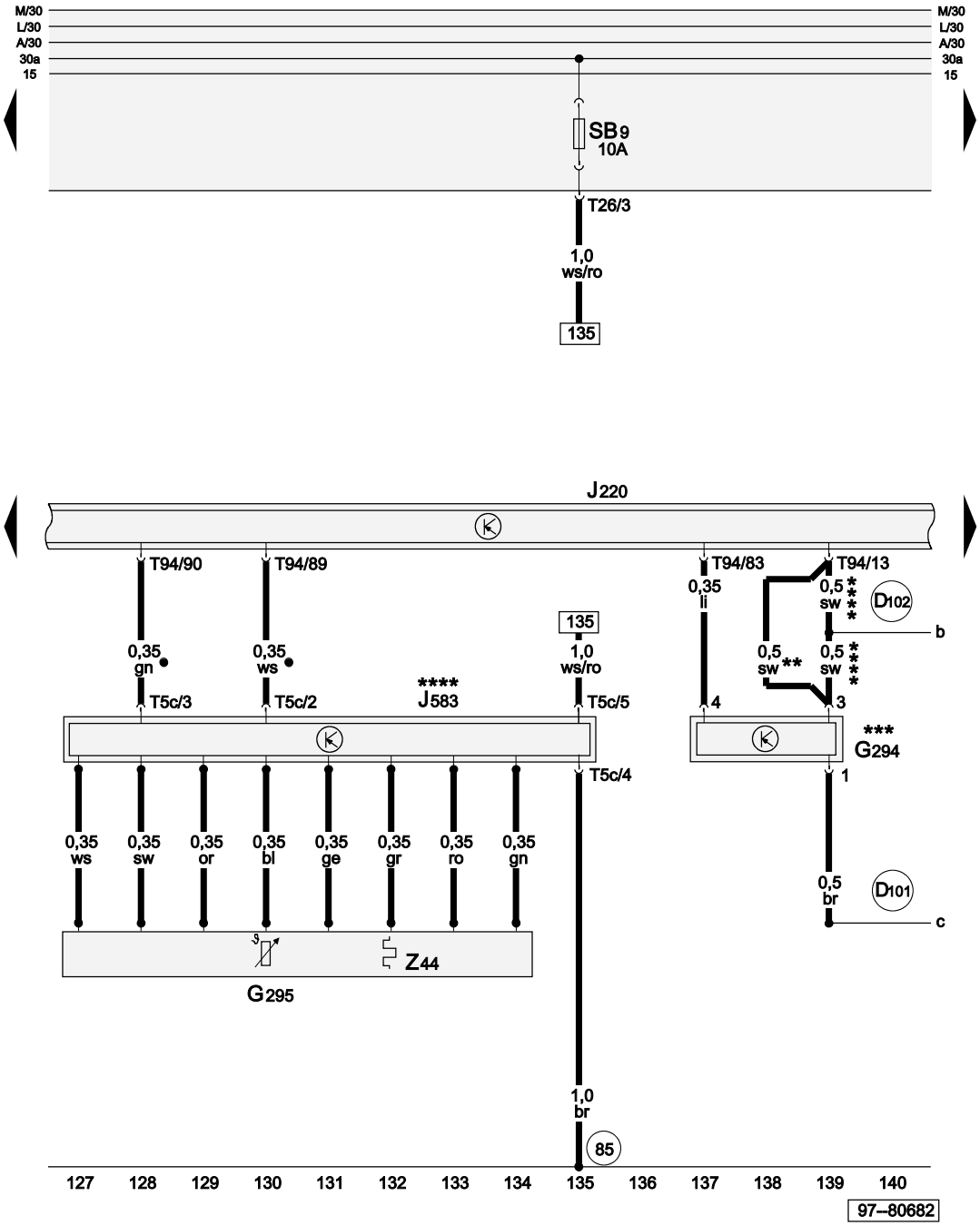


Lambda probe after catalytic converter, lambda probe 2 after catalytic converter

G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
G287	Lambda probe 3 after catalytic converter
J220	Motronic control unit
SB10	Fuse 10 on fuse holder B
T4b	4-pin connector, black, on lambda probe after catalytic converter
T4f	4-pin connector, brown, on lambda probe 2 after catalytic converter
T4z	4-pin connector, grey, on lambda probe 3 after catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
Z64	Lambda probe 3 heater after catalytic converter
D109	Connection 7, in engine compartment wiring harness
*	for models with engine code BLR only

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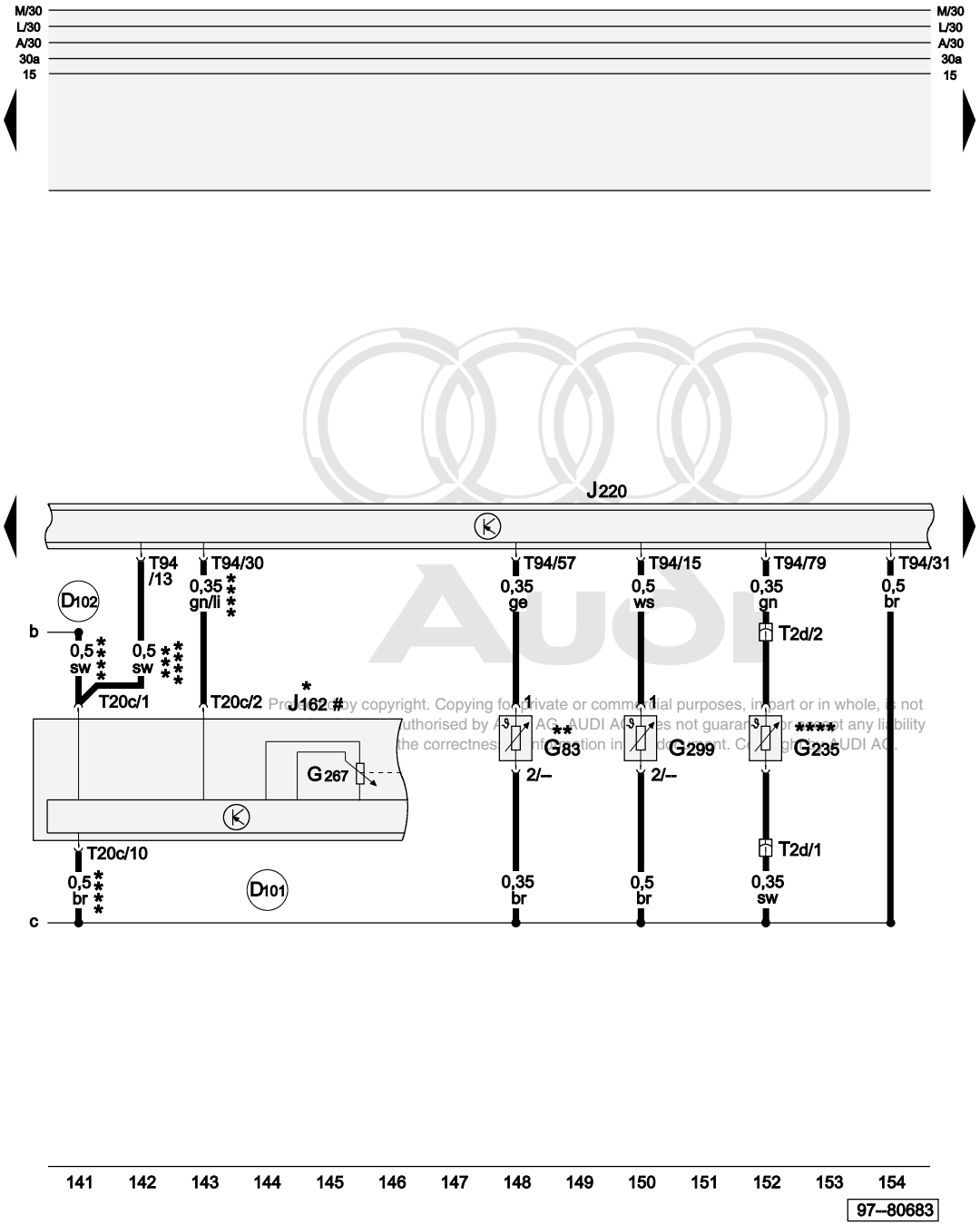


NOx sensor control unit, brake servo pressure sensor

G294	Brake servo pressure sensor
G295	NOx sender
J220	Motronic control unit
J583	NOx sensor control unit
SB9	Fuse 9 on fuse holder B
T5c	5-pin connector, black, on NOx sensor control unit
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Z44	NOx sender heater
85	Earth connection 1, in engine compartment wiring harness
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness
**	for models with air conditioning system only
***	for models with brake servo pressure sensor only
****	for models with engine code BLX only
•	Data bus wire (CAN bus)

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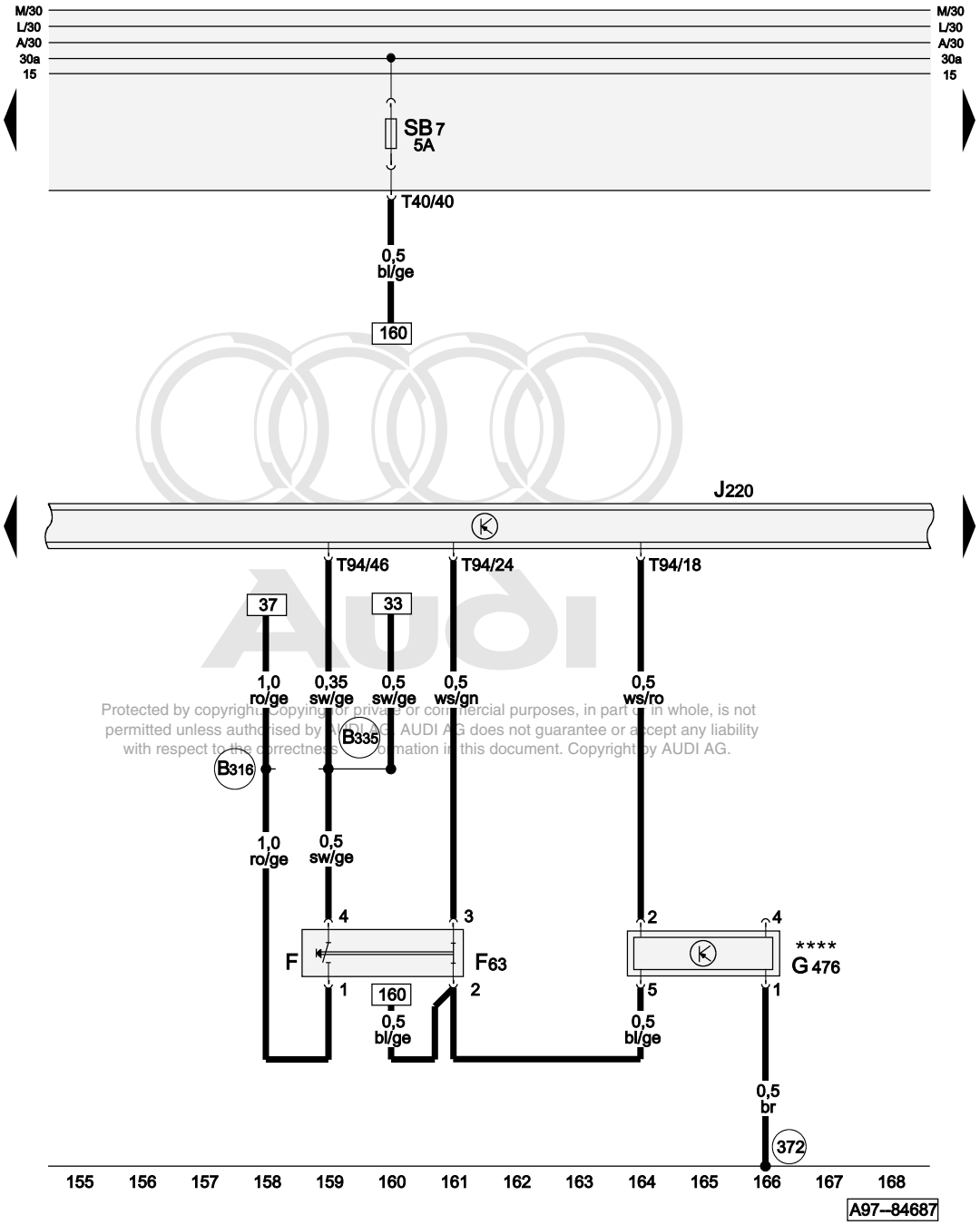


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Radiator outlet coolant temperature sender, exhaust gas temperature sender 1

G83	Radiator outlet coolant temperature sender
G235	Exhaust gas temperature sender 1
G267	Potentiometer for temperature selection rotary knob
G299	Intake air temperature sender 2
J162	Heater control unit
J220	Motronic control unit
T2d	2-pin connector, black, on exhaust gas temperature sender 1
T20c	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness
*	for models without air conditioning system only
**	for models with air conditioning system only
***	for models without air conditioning system and anti-lock brake system with automatic gearbox (09G) only
****	for models with engine code BLX only
#	J65 is replaced by J162

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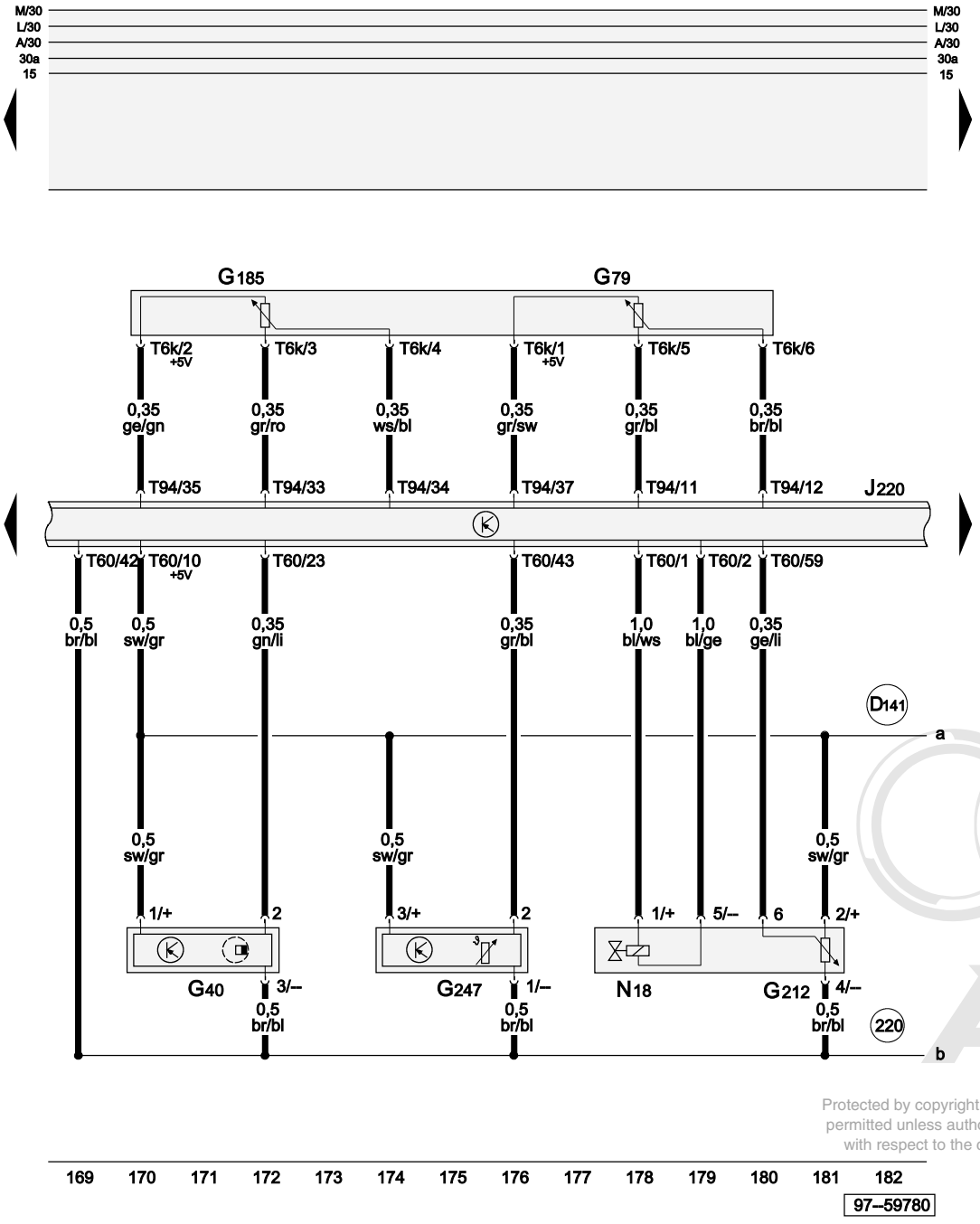


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Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
SB7	Fuse 7 on fuse holder
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
****	for models with manual gearbox only

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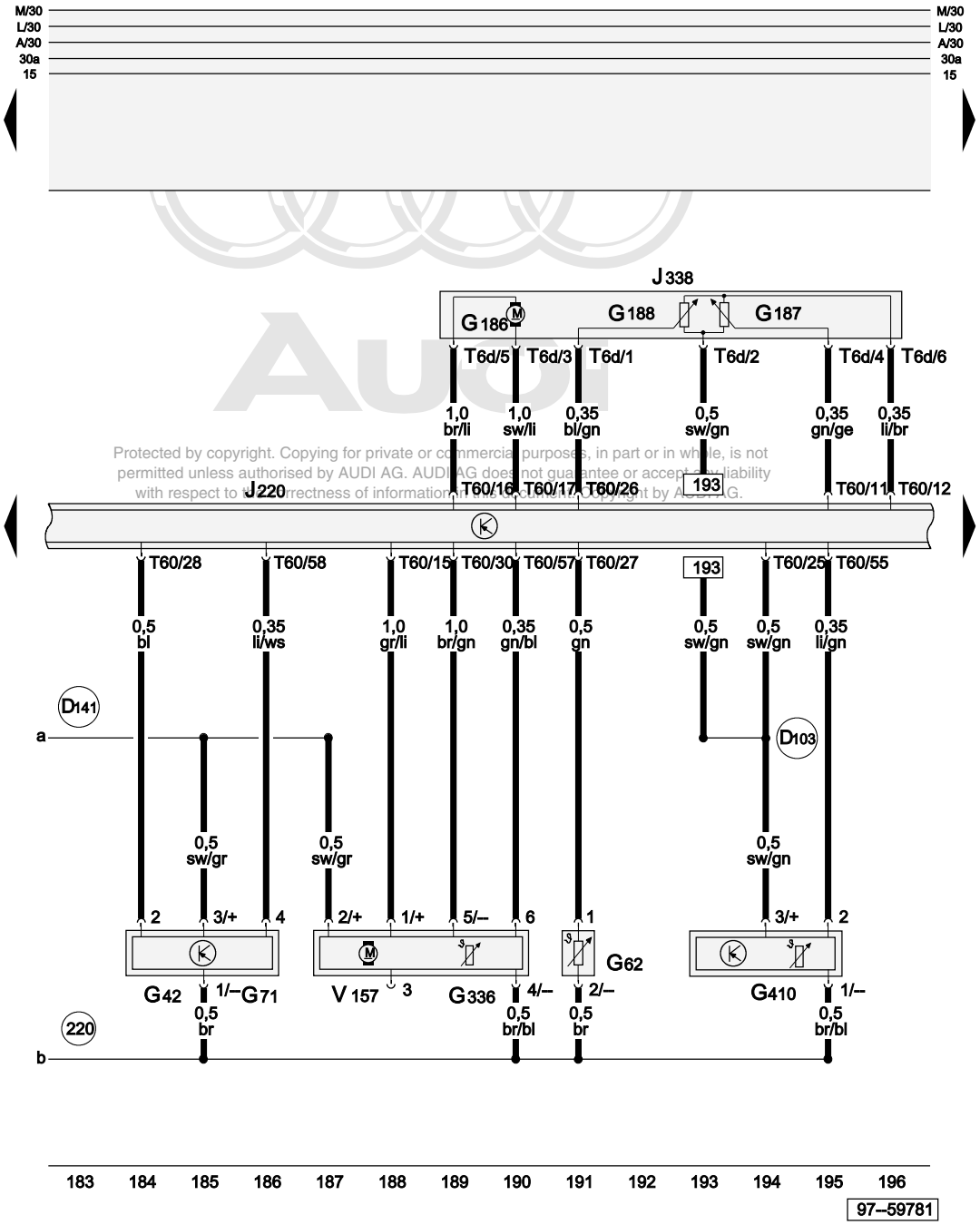


Hall sender, accelerator position sender, fuel pressure sender

G40	Hall sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
J220	Motronic control unit
N18	Exhaust gas recirculation valve
T6k	6-pin connector, black, near accelerator position sender
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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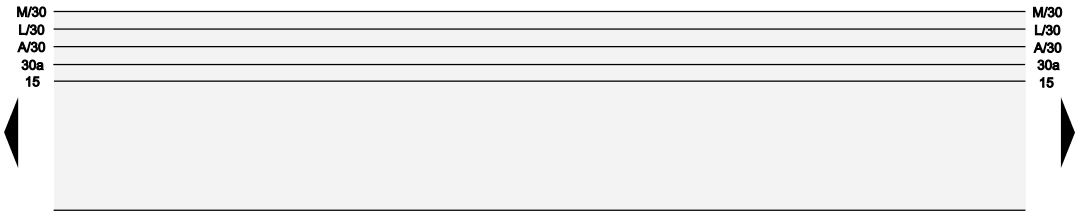


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Intake air temperature sender, coolant temperature, intake manifold pressure

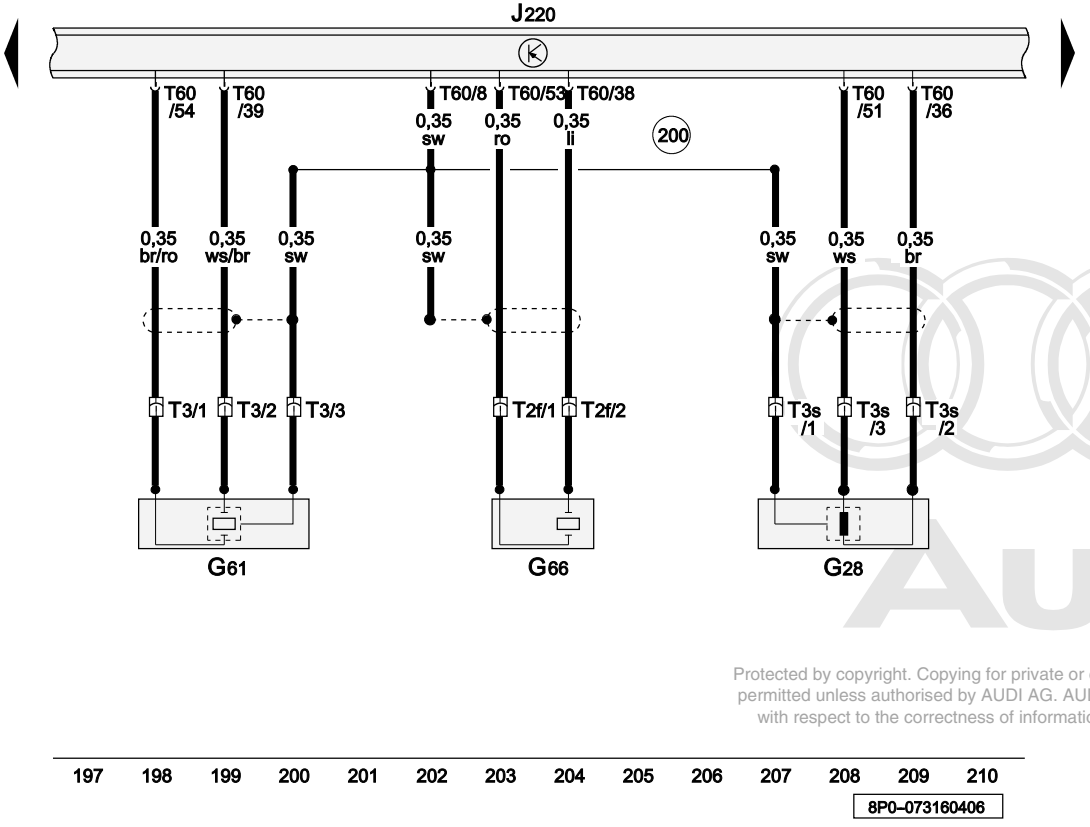
G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
G186	Throttle valve drive, electric throttle
G187	Throttle valve drives angle sender 1, electric throttle
G188	Throttle valve drives angle sender 2, electric throttle
G336	Intake manifold flap potentiometer
G410	Fuel pressure sender, low pressure
J220	Motronic control unit
J338	Throttle valve module
T6d	6-pin connector, black, near throttle valve module
T60	60-pin connector, black (connector A)
(220)	Earth connection (sender earth), in engine wiring harness
(D103)	Connection 3, in engine compartment wiring harness
(D141)	Connection (5V), in engine wiring harness

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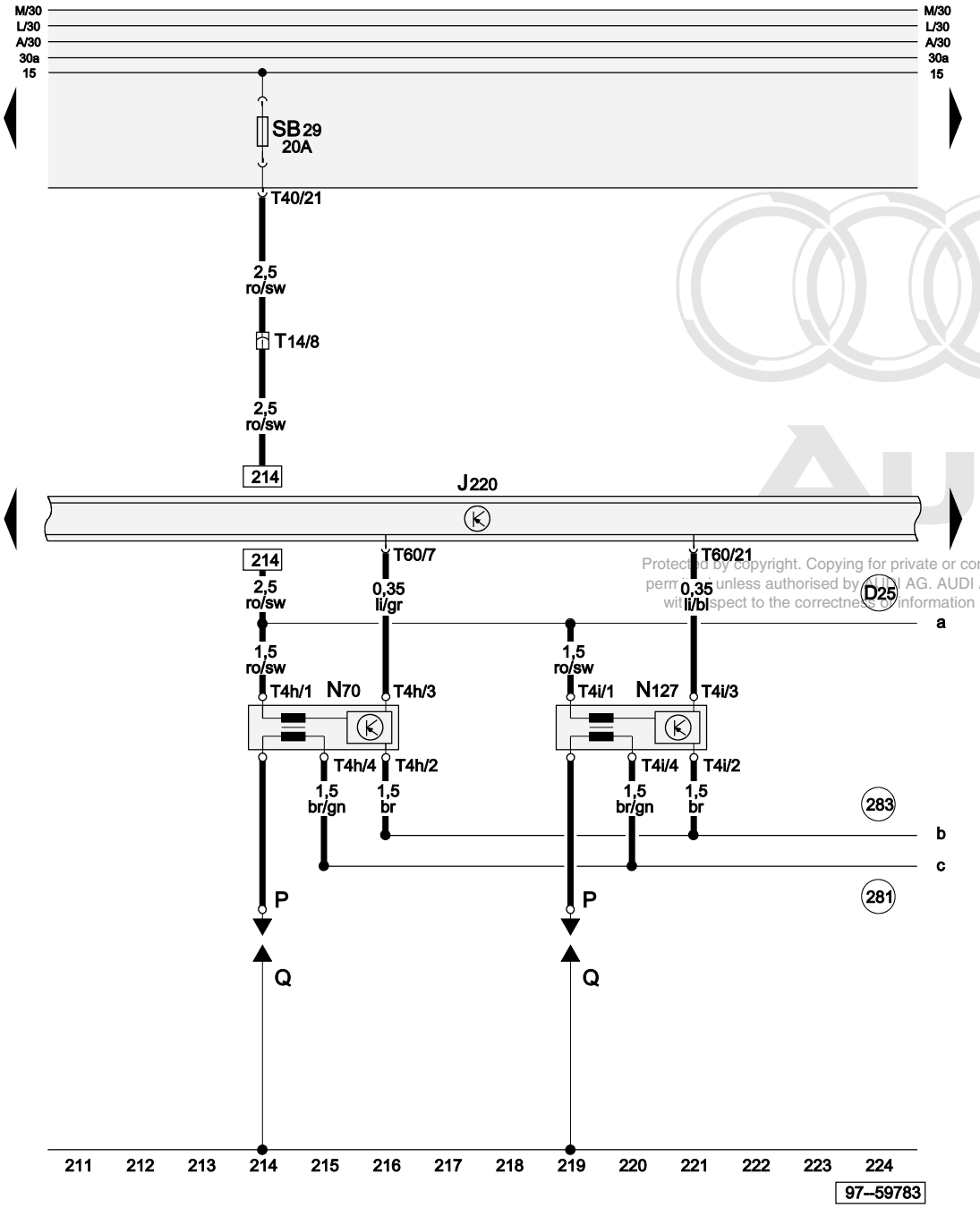
Engine speed sender, knock sensors

J220	Motronic control unit
G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
T2f	2-pin connector, black, in left engine compartment (knock sensor 2)
T3	3-pin connector, black, in left engine compartment (knock sensor)
T3s	3-pin connector
T60	60-pin connector, black (connector A)
(200)	Earth connection (screening) in engine compartment wiring harness



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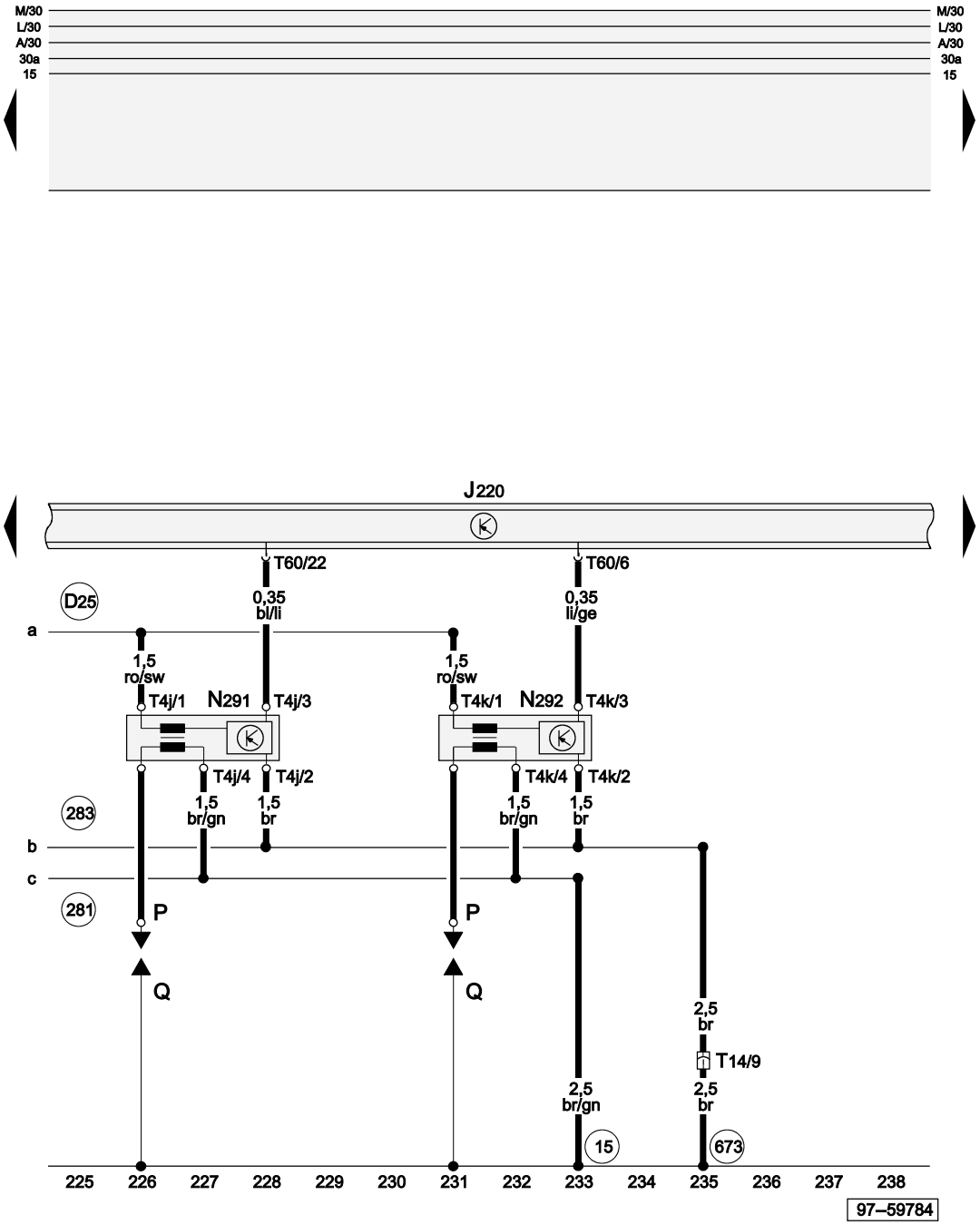


Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
P	Spark plug connector
Q	Spark plugs
SB29	Fuse 29 on fuse holder
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
D25	Positive connection (15), in engine wiring harness

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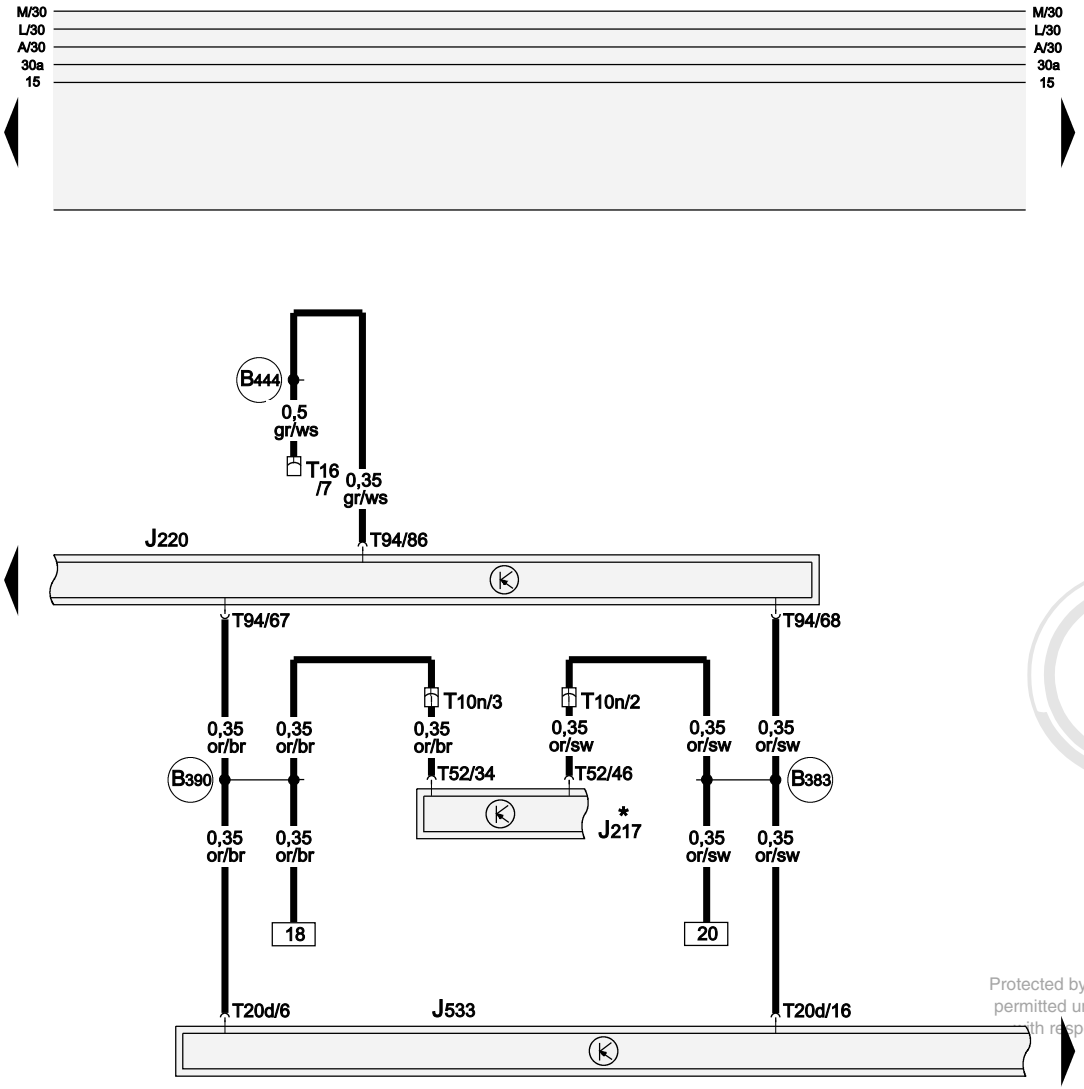


Ignition coils 3 and 4 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4j	4-pin connector, black, on ignition coil 3 with output stage
T4k	4-pin connector, black, on ignition coil 4 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
15	Earth point, on cylinder head
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
673	Earth point 3, on front of left longitudinal member
D25	Positive connection (15), in engine wiring harness

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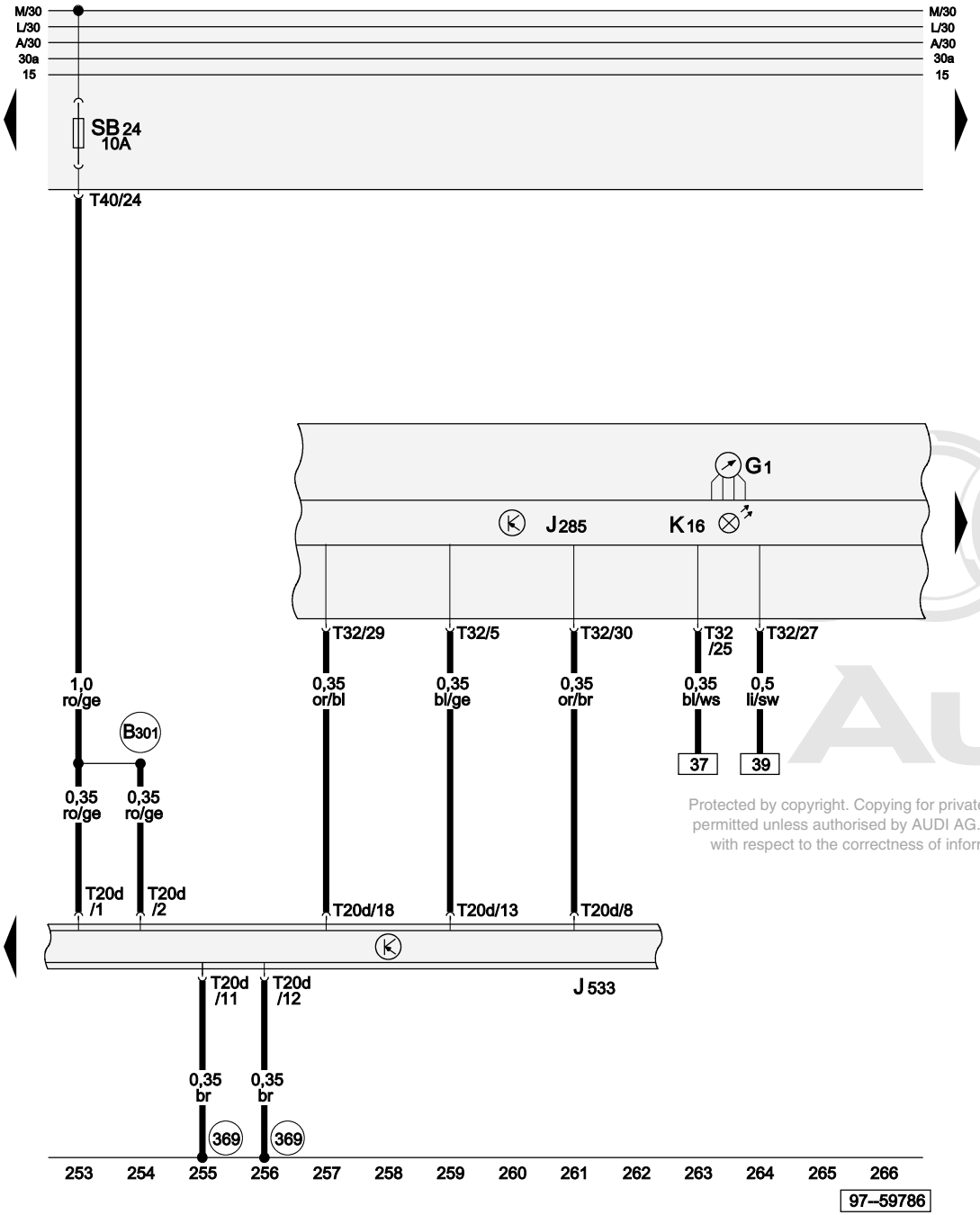


Drive train CAN bus, K-diagnosis wiring

J217	Automatic gearbox control unit
J220	Motronic control unit
J533	Data bus diagnostic interface
T10n	10-pin connector, black, near longitudinal member, front left
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with automatic gearbox (09G) only

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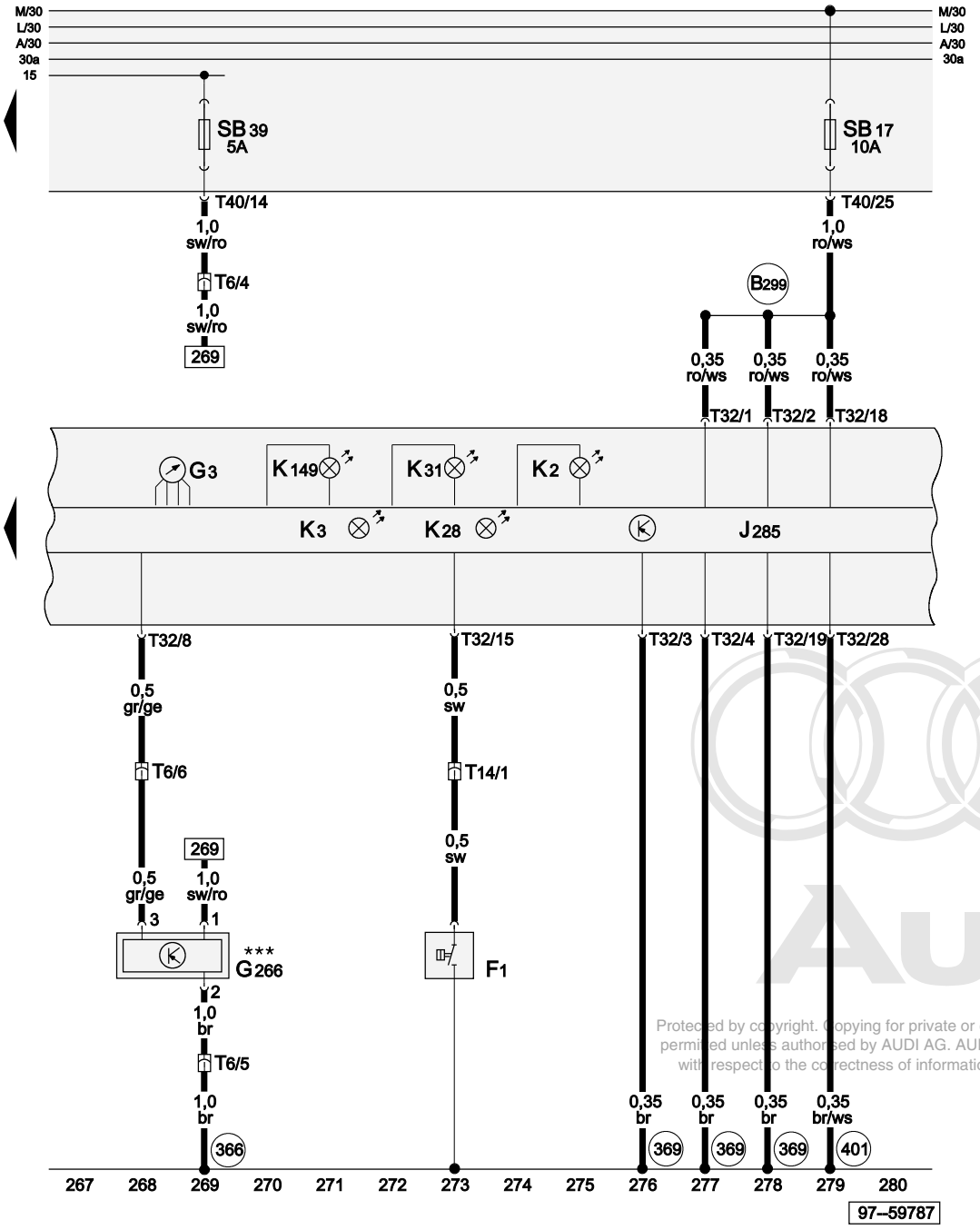


Fuel gauge, reserve fuel warning lamp

G1	Fuel gauge
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K16	Reserve fuel warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
***	for models with extended servicing intervals (ESI) only

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2.0 l - Fuel injection engine (147 kW - TFSI - 4 cylinder), engine code AXX, BPY

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

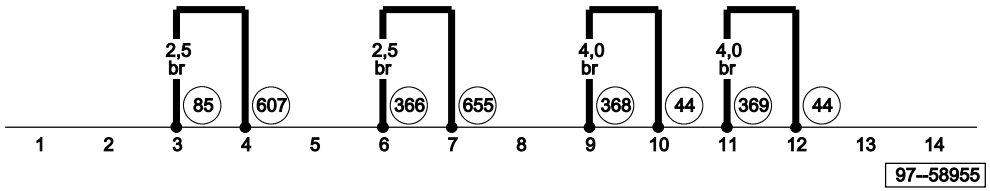
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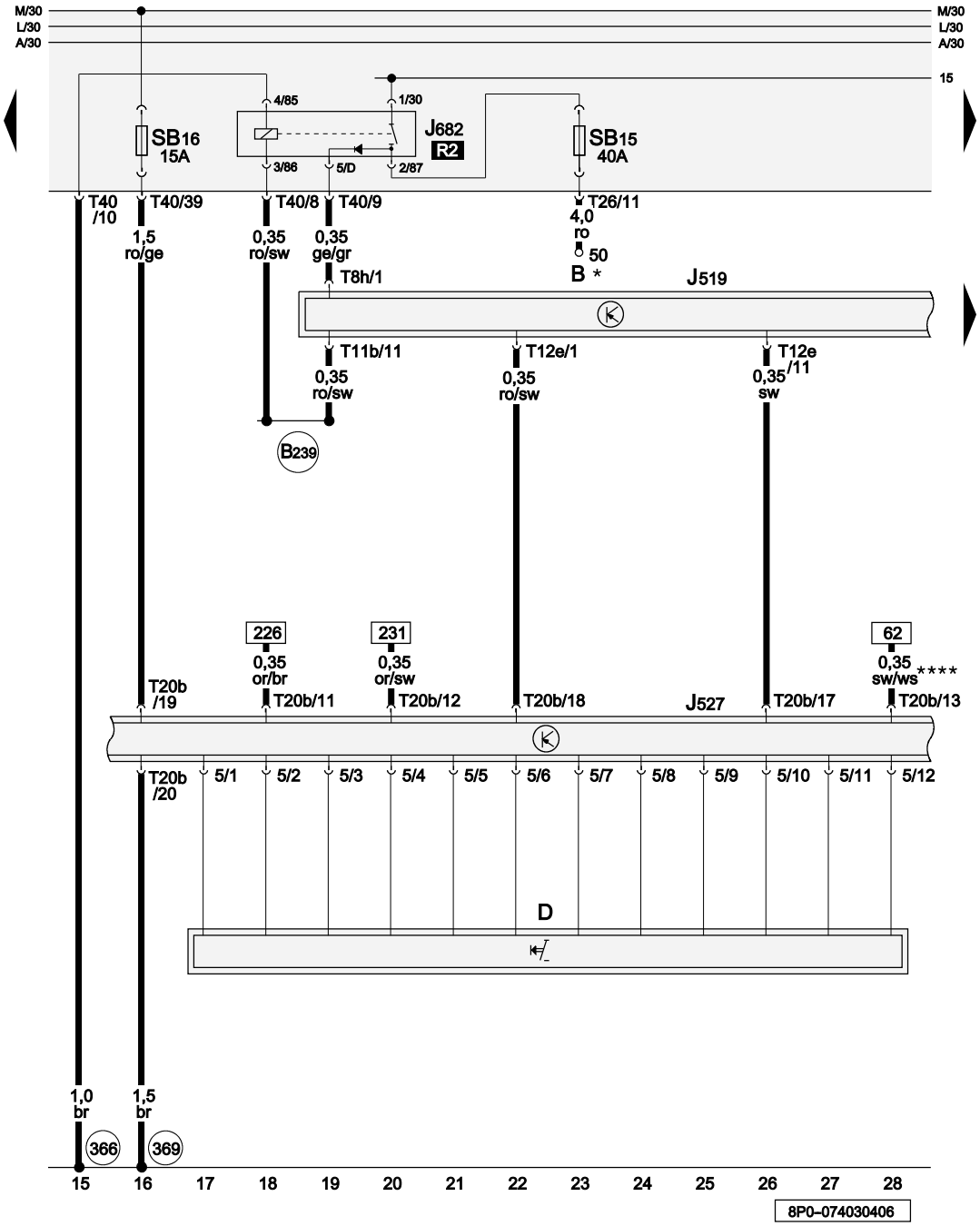
Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection 1, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight

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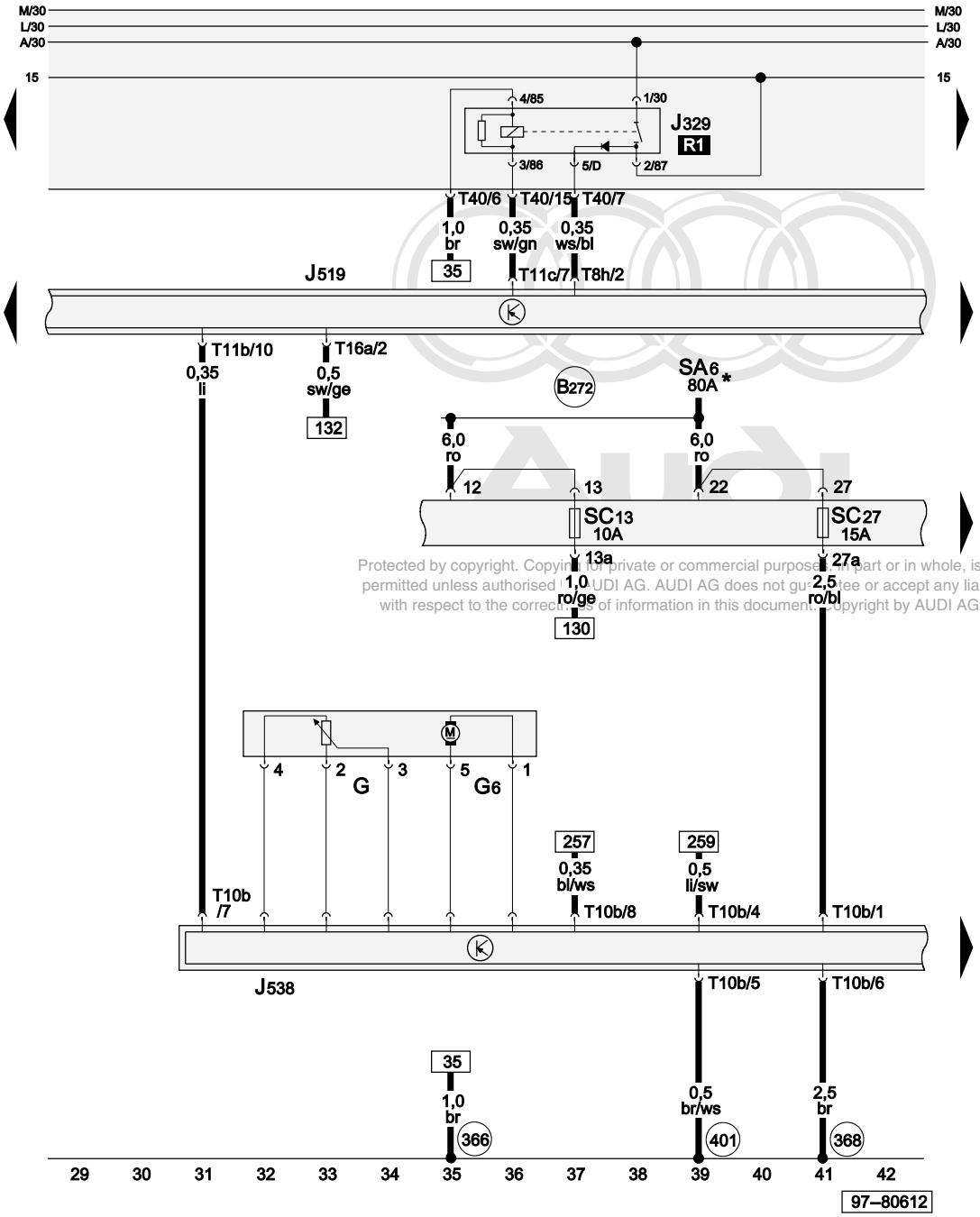


Terminal 50 voltage supply relay, ignition/starter switch

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
****	for models with cruise control system only

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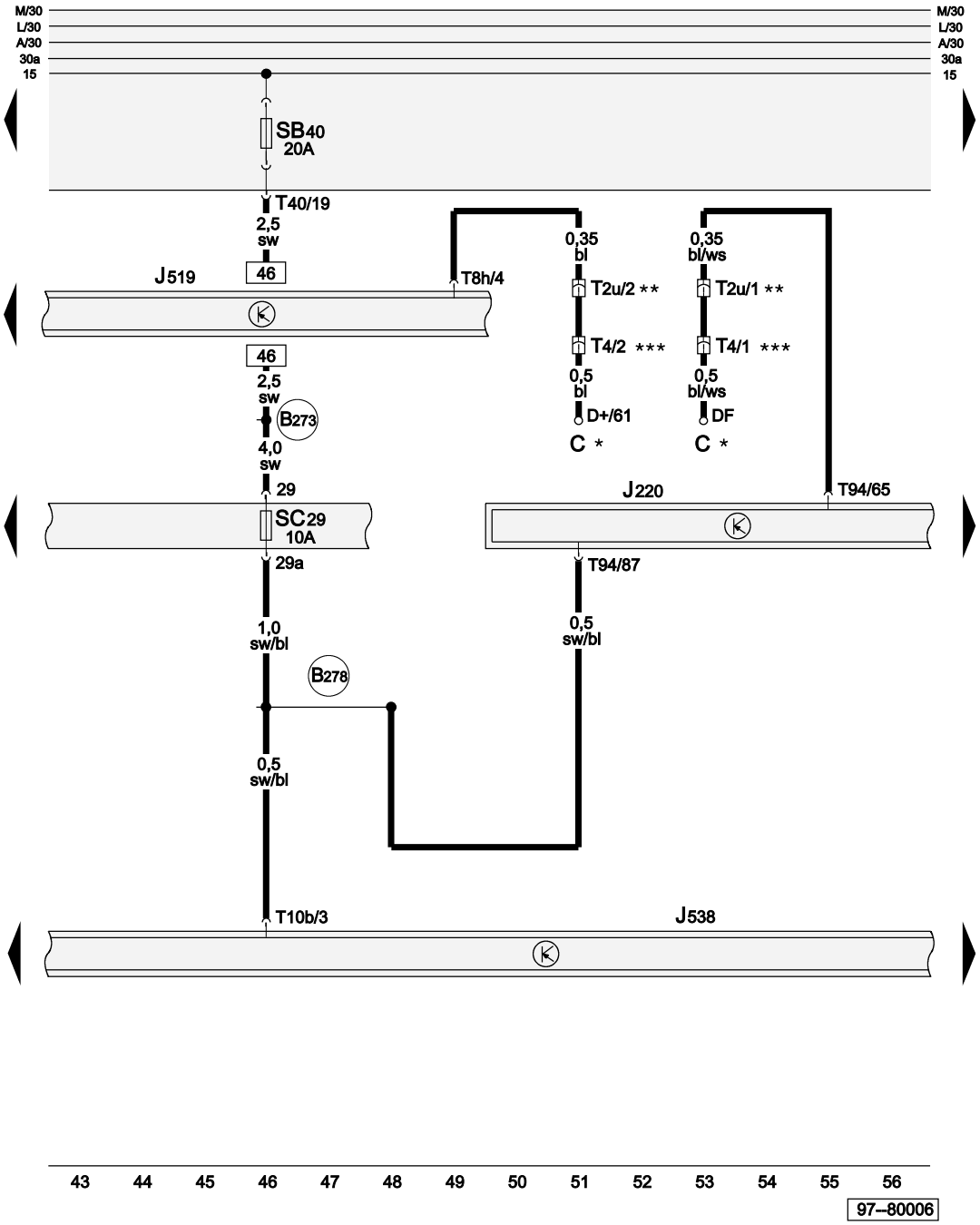


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Fuel gauge, fuel pump, terminal 15 voltage supply relay, fuse holder

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J538	Fuel pump control unit
SA6	Fuse 6 on fuse holder on battery
SC13	Fuse 13 on fuse holder
SC27	Fuse 27 on fuse holder
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment

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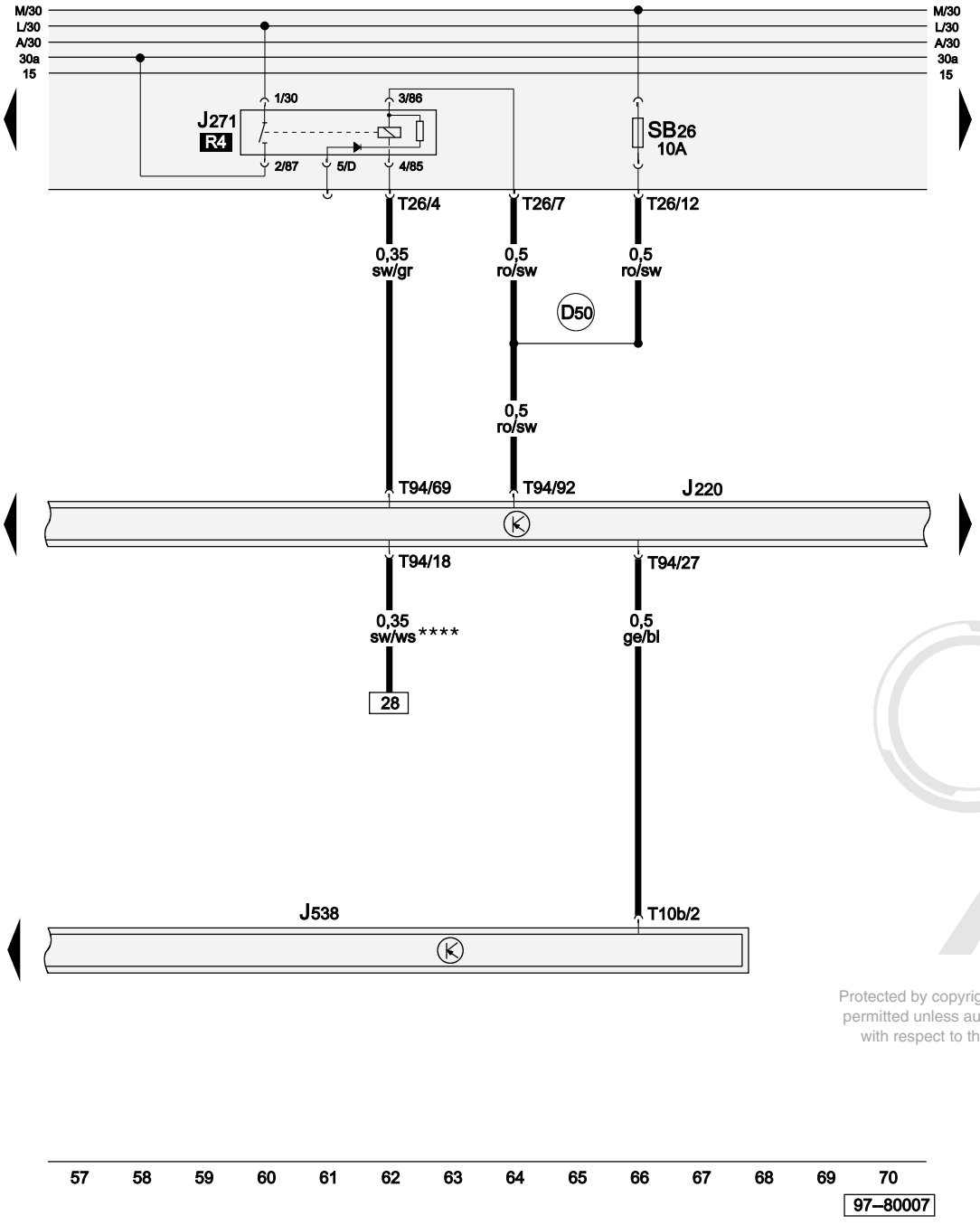


Fuse holder

C	Alternator
J220	Motronic control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
SB40	Fuse 40 on fuse holder
SC29	Fuse 29 on fuse holder
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only

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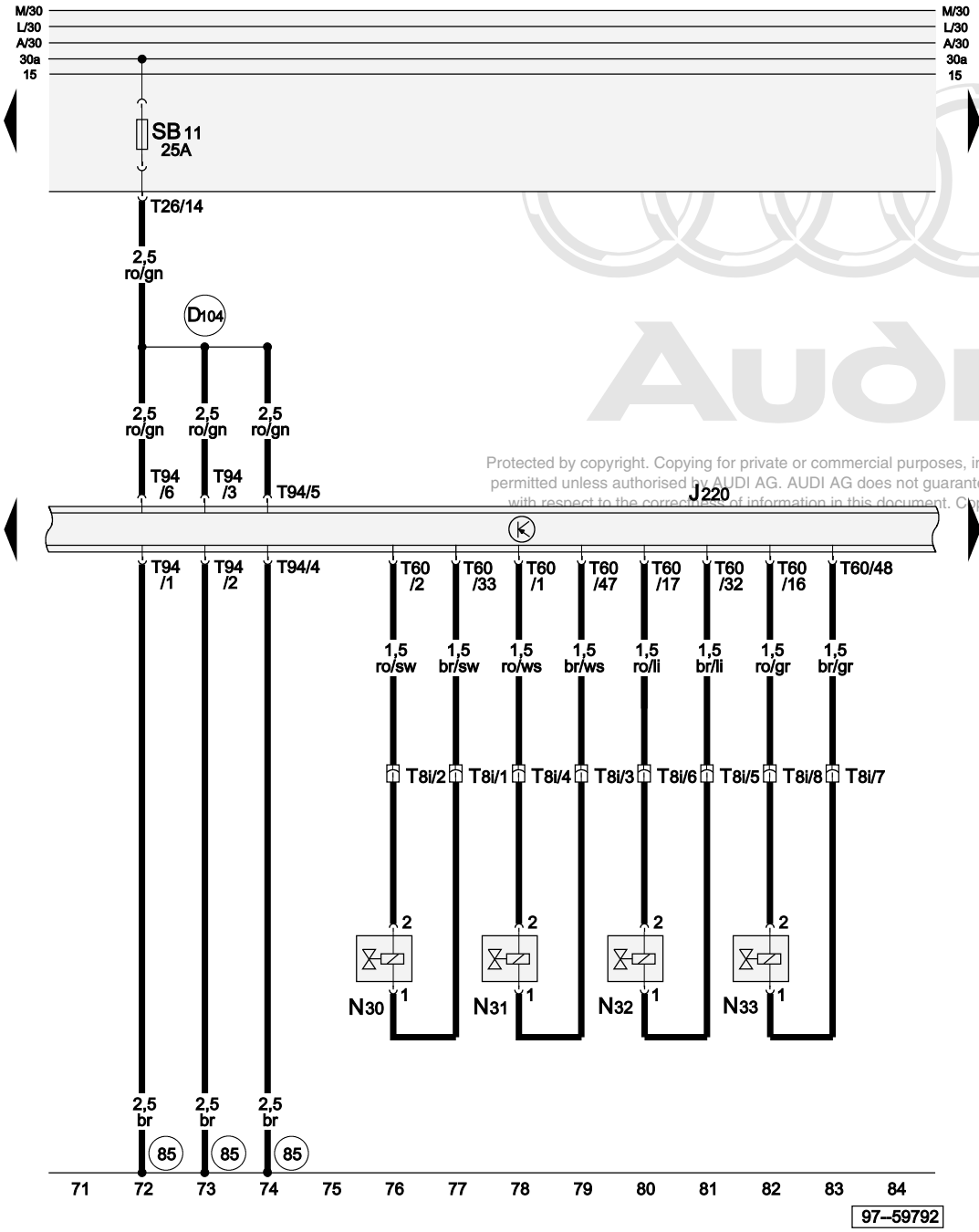


Motronic current supply relay

J220	Motronic control unit
J271	Motronic current supply relay
J538	Fuel pump control unit
SB26	Fuse 26 on fuse holder
T10b	10-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
D50	Positive connection (30), in engine compartment wiring harness
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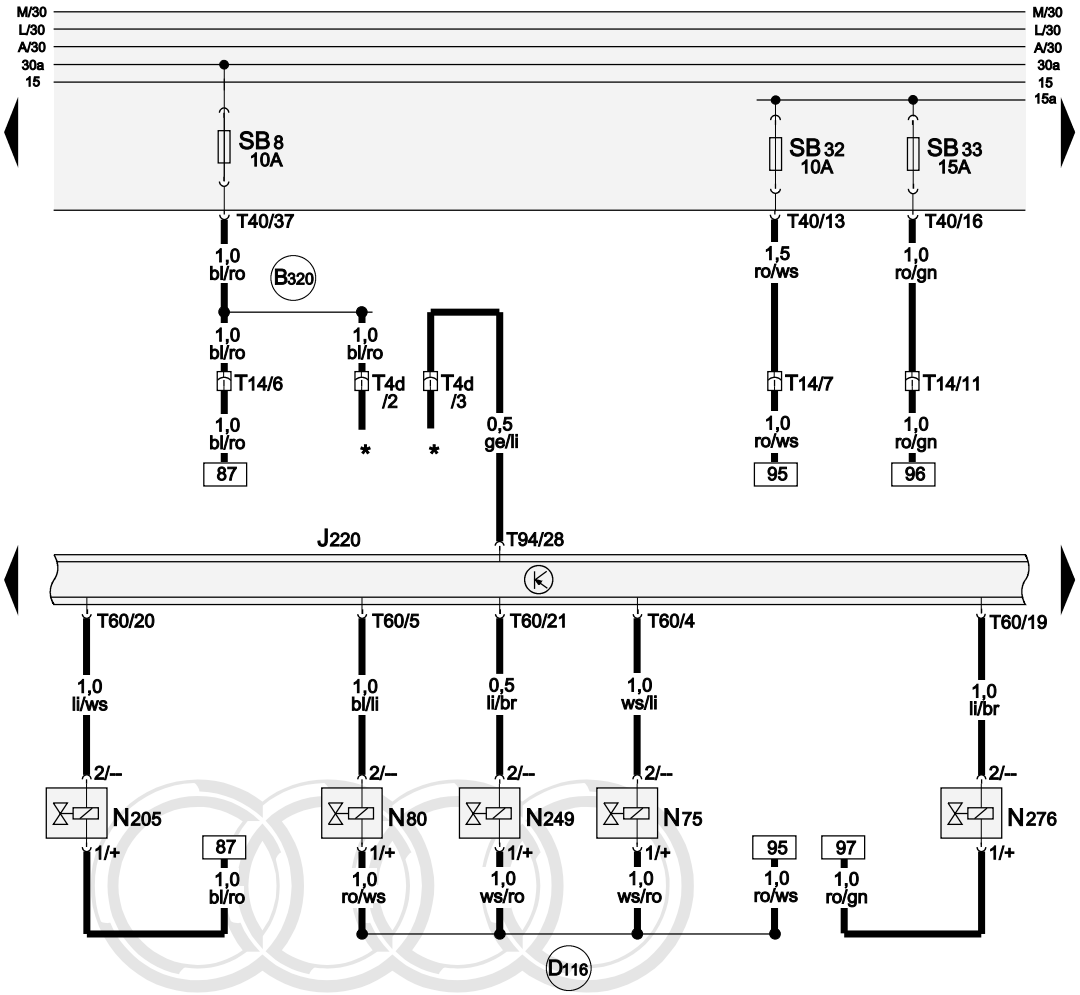


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Injectors

J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SB11	Fuse 11 on fuse holder
T8i	8-pin connector, black, near injectors
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
85	Earth connection 1, in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness



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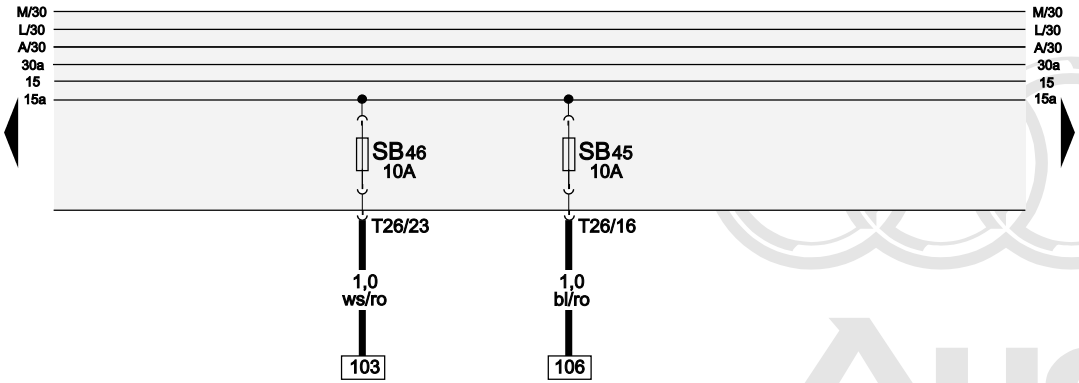
85 86 87 88 89 90 91 92 93 94 95 96 97 98

97–80008

Solenoid valves

J220	Motronic control unit
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter system solenoid valve 1
N205	Inlet camshaft control valve 1
N249	Turbocharger air recirculation valve
N276	Fuel pressure regulating valve
SB8	Fuse 8 on fuse holder
SB32	Fuse 32 on fuse holder
SB33	Fuse 33 on fuse holder
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B320	Positive connection 6 (30a), in main wiring harness
D116	Connection 14, in engine compartment wiring harness
*	See applicable Current Flow Diagram: radiator fan control

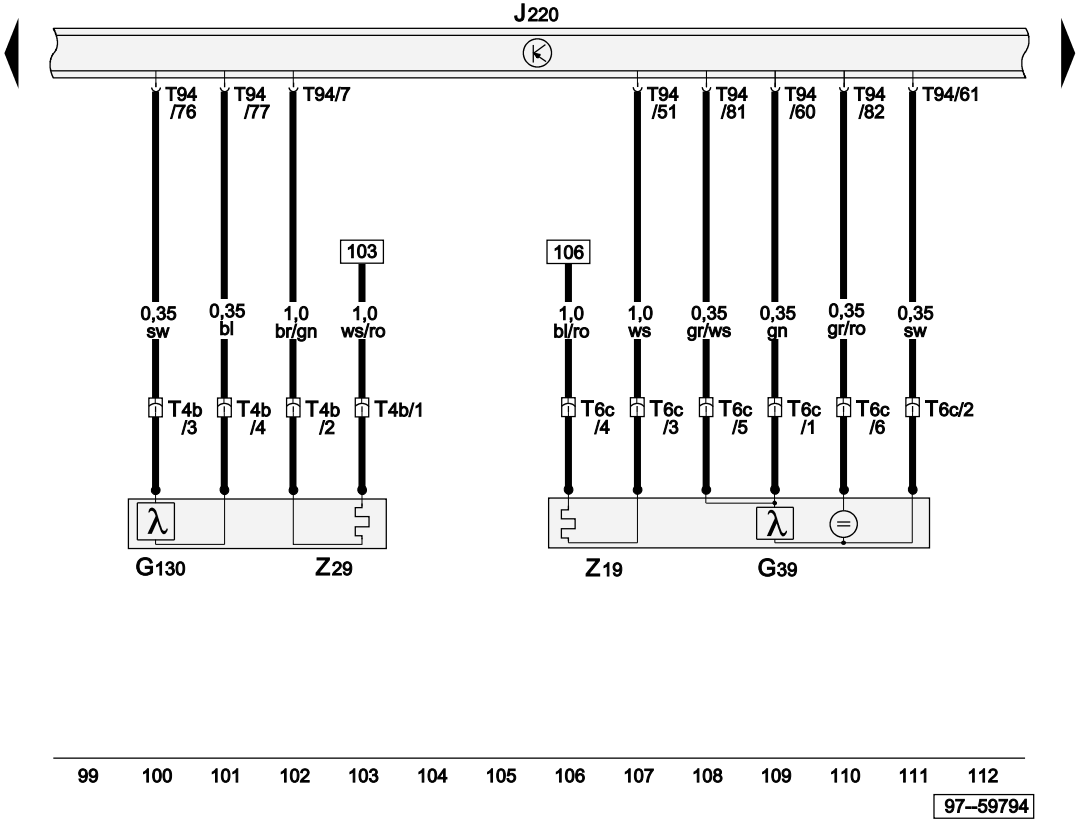
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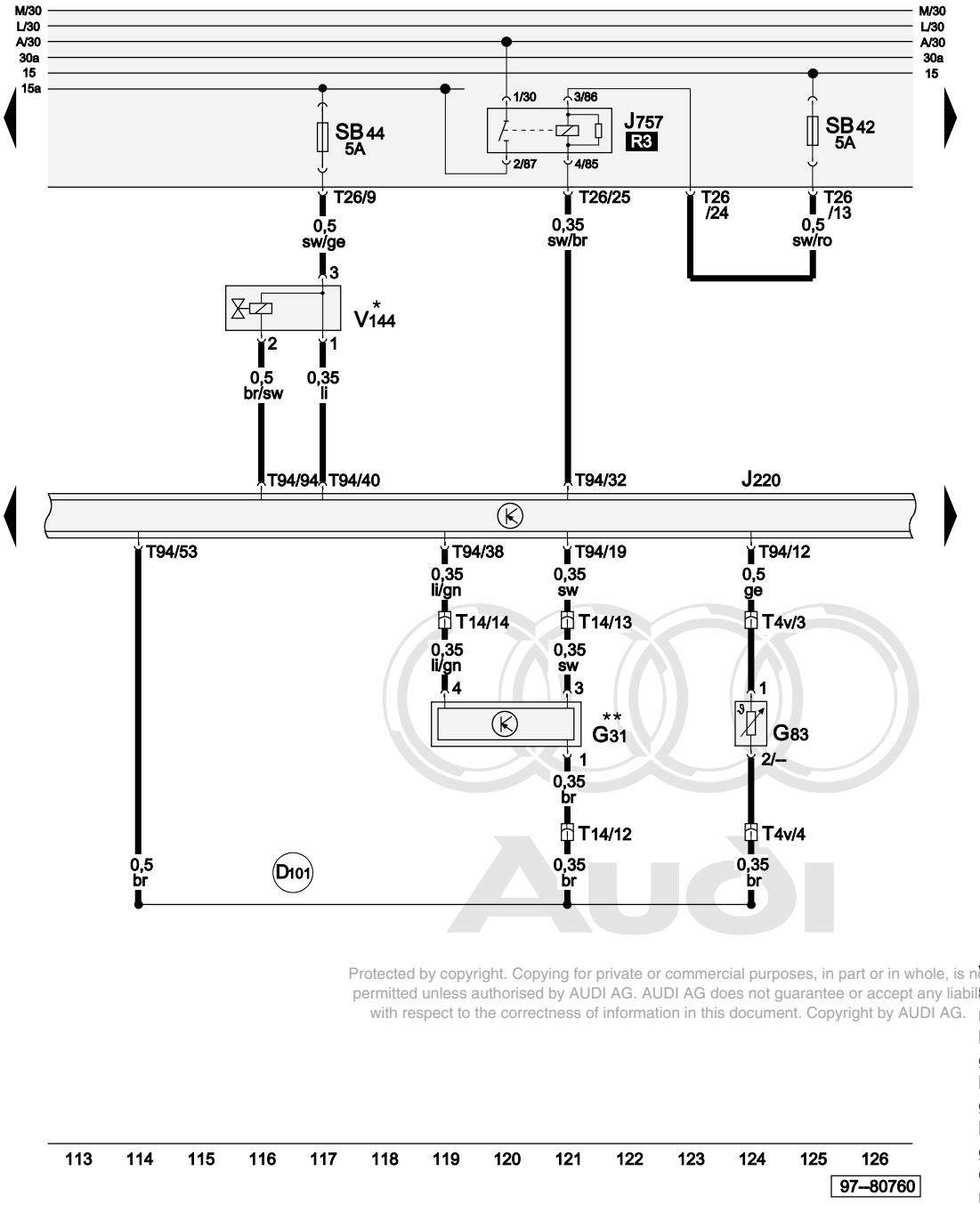
Lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J220	Motronic control unit
SB45	Fuse 45 on fuse holder
SB46	Fuse 46 on fuse holder
T4b	4-pin connector, black, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter

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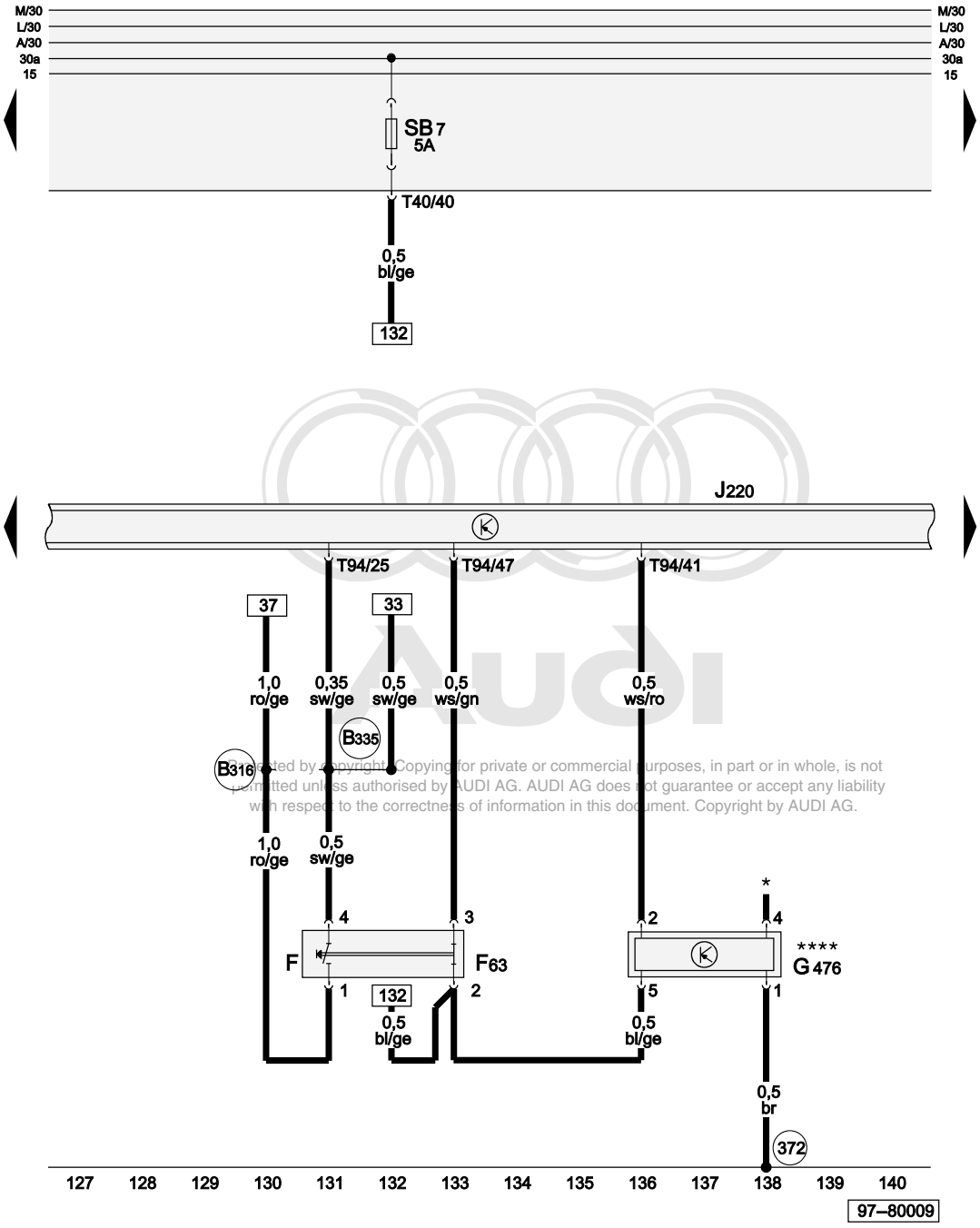


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Radiator outlet coolant temperature sender, engine component current supply relay

G31	Charge air pressure sender
G83	Radiator outlet coolant temperature sender
J220	Motronic control unit
J757	Engine component current supply relay
SB42	Fuse 42 on fuse holder
SB44	Fuse 44 on fuse holder
T4v	4-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
V144	Fuel system diagnostic pump
(D101)	Connection 1, in engine compartment wiring harness
*	for models with fuel system diagnostic pump only
**	for models with charge air pressure sender only

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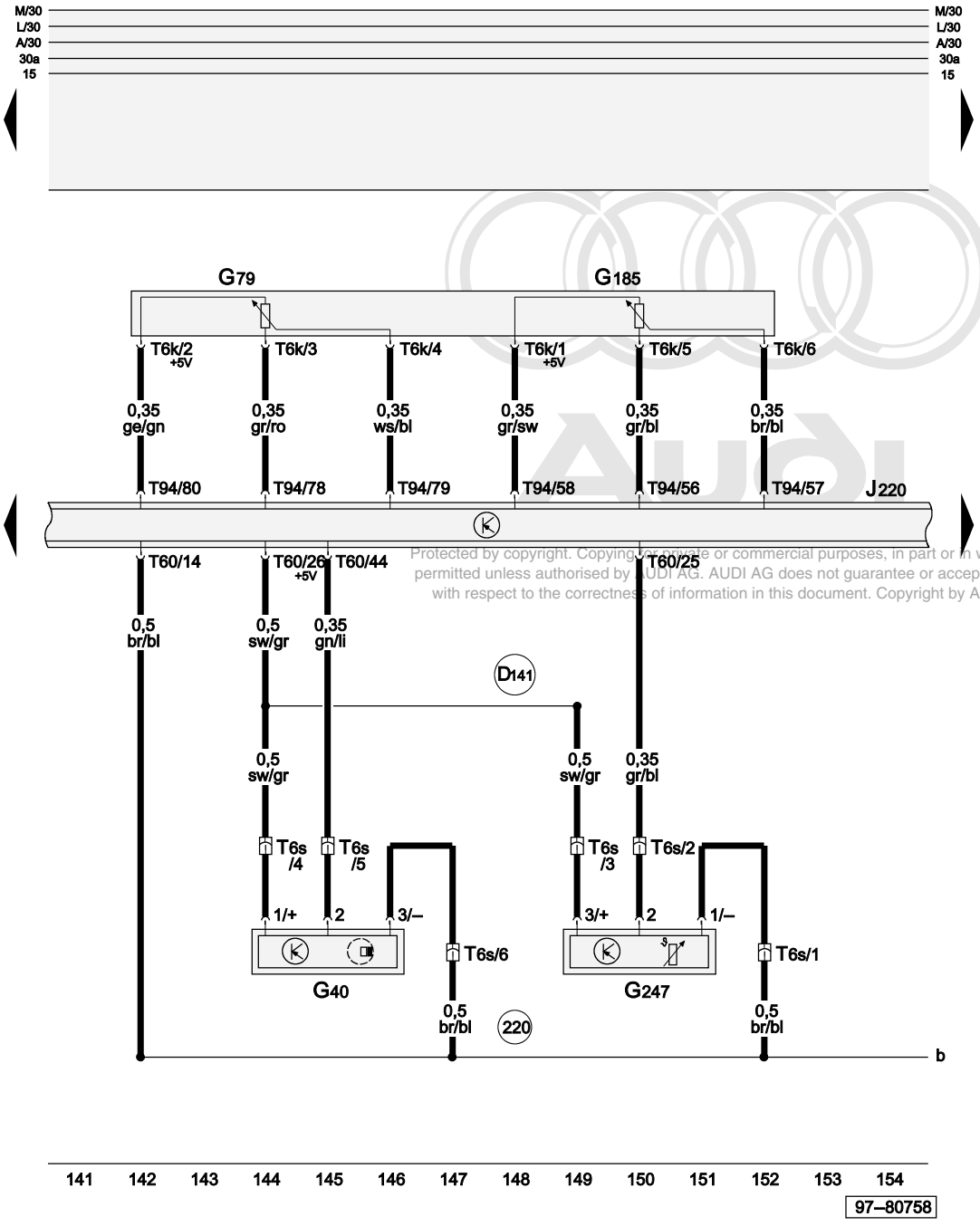


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Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
SB7	Fuse 7 on fuse holder
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram basic equipment
****	for models with manual gearbox only

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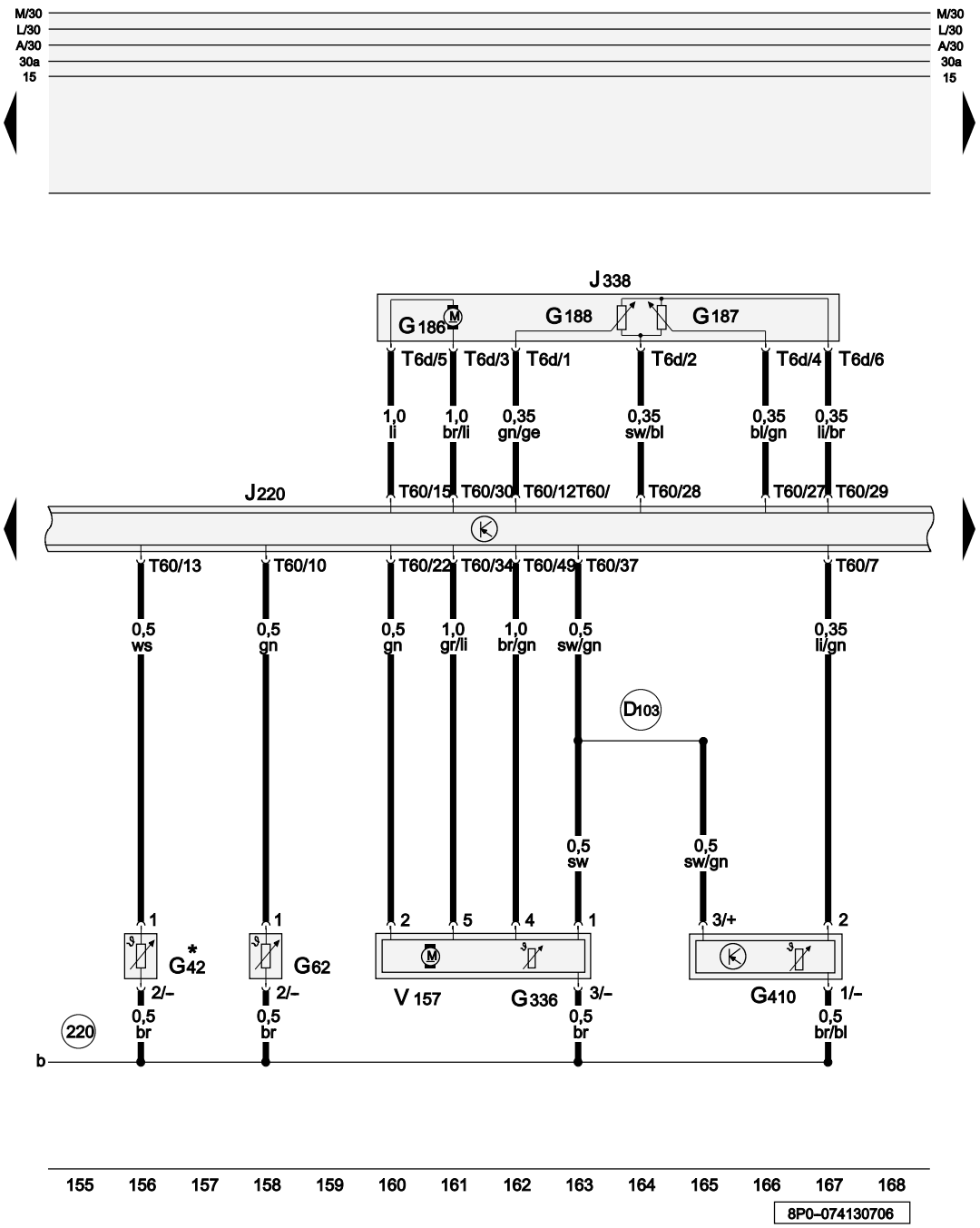


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Hall sender, fuel pressure sender

G40	Hall sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G247	Fuel pressure sender
J220	Motronic control unit
T6k	6-pin connector, black, near accelerator position sender
T6s	6-pin connector, black, behind intake manifold
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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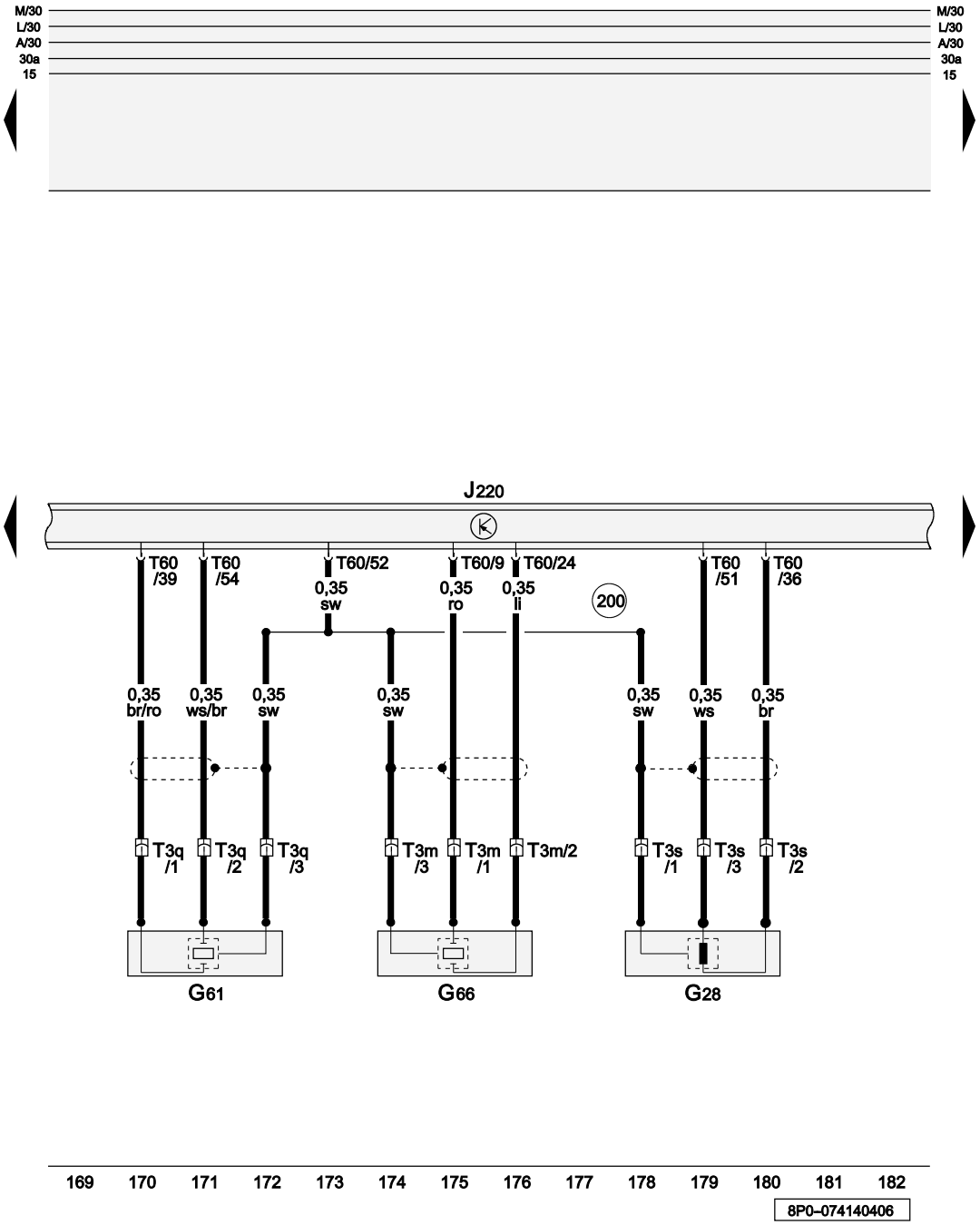


Intake air temperature sender, coolant temperature, intake manifold pressure

G42	Intake air temperature sender
G62	Coolant temperature sender
G186	Throttle valve drive, electric throttle
G187	Throttle valve drives angle sender 1, electric throttle
G188	Throttle valve drives angle sender 2, electric throttle
G336	Intake manifold flap potentiometer
G410	Fuel pressure sender, low pressure
J220	Motronic control unit
J338	Throttle valve module
T6d	6-pin connector, black, near throttle valve module
T60	60-pin connector, black (connector A)
V157	Intake manifold flap motor
220	Earth connection (sender earth), in engine wiring harness
D103	Connection 3, in engine compartment wiring harness
*	G42 is replaced by G299

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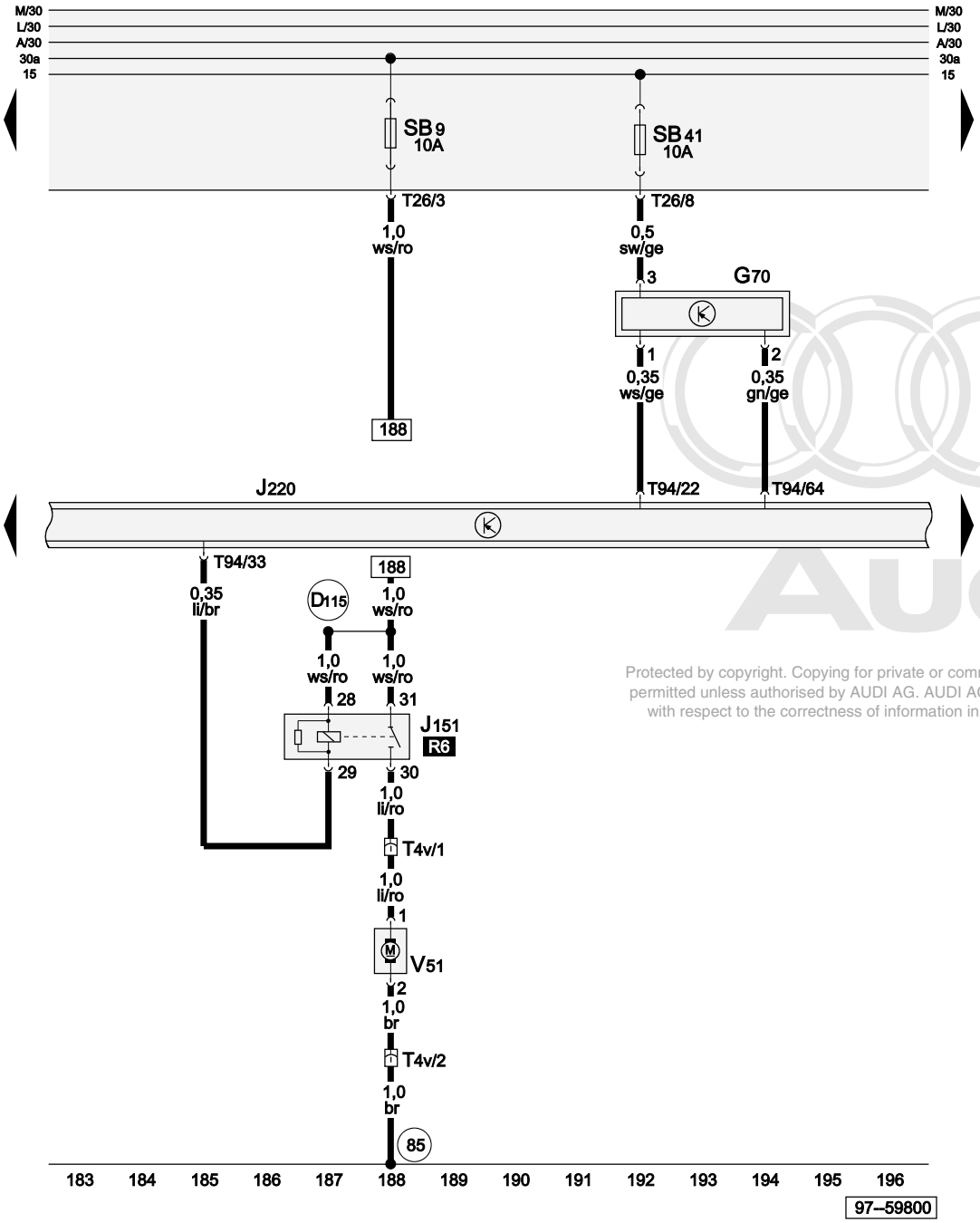


Engine speed sender, knock sensors

J220	Motronic control unit
G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
T3q	3-pin connector, green, in left engine compartment (knock sensor)
T3m	3-pin connector, brown, near gearbox
T3s	3-pin connector
T60	60-pin connector, black (connector A)
200	Earth connection (screening) in engine compartment wiring harness

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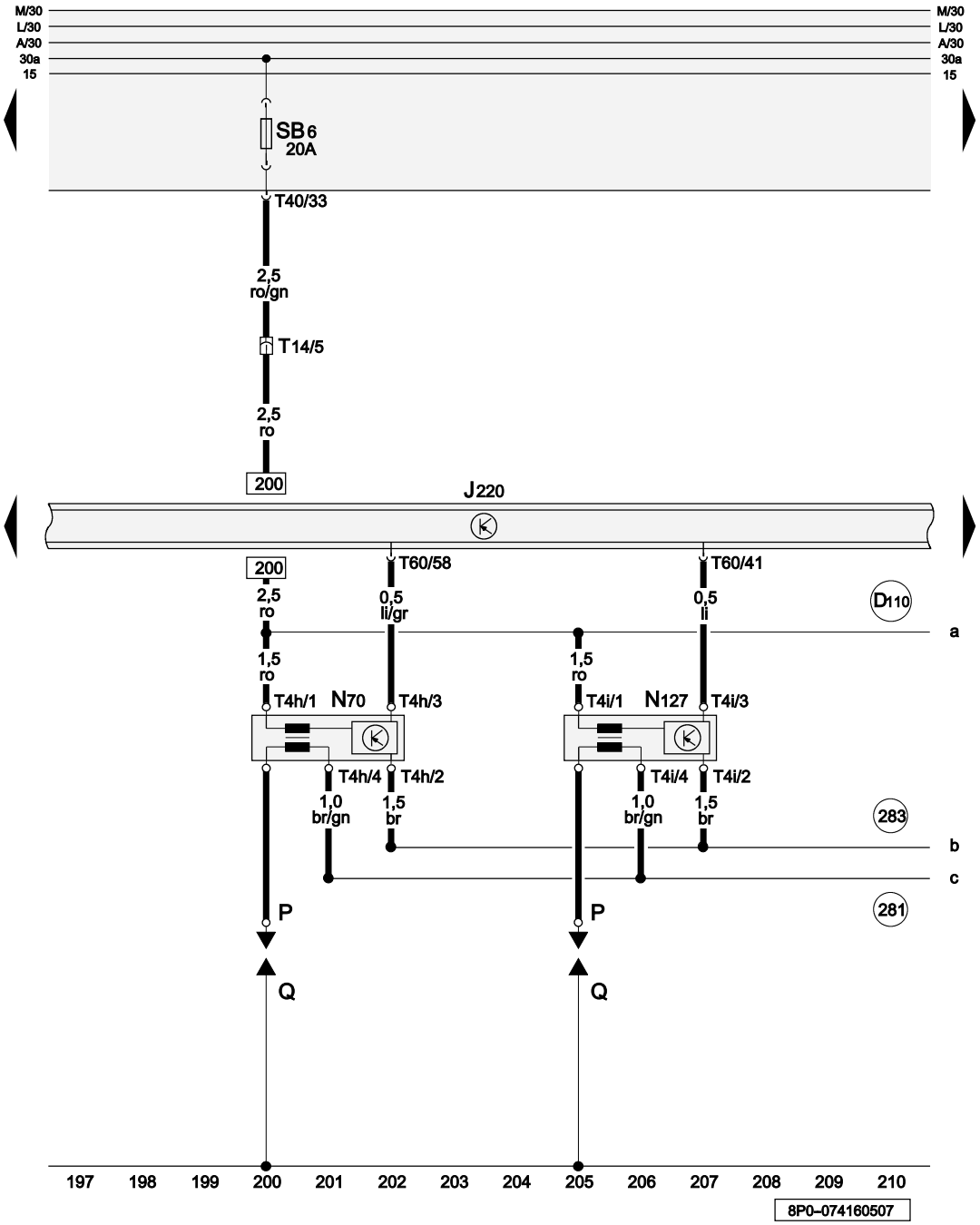


Air mass meter, continued coolant circulation relay

G70	Air mass meter
J151	Continued coolant circulation relay
J220	Motronic control unit
SB9	Fuse 9 on fuse holder
SB41	Fuse 41 on fuse holder
T4v	4-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
V51	Continued coolant circulation pump
85	Earth connection 1, in engine compartment wiring harness
D115	Connection 13, in engine compartment wiring harness

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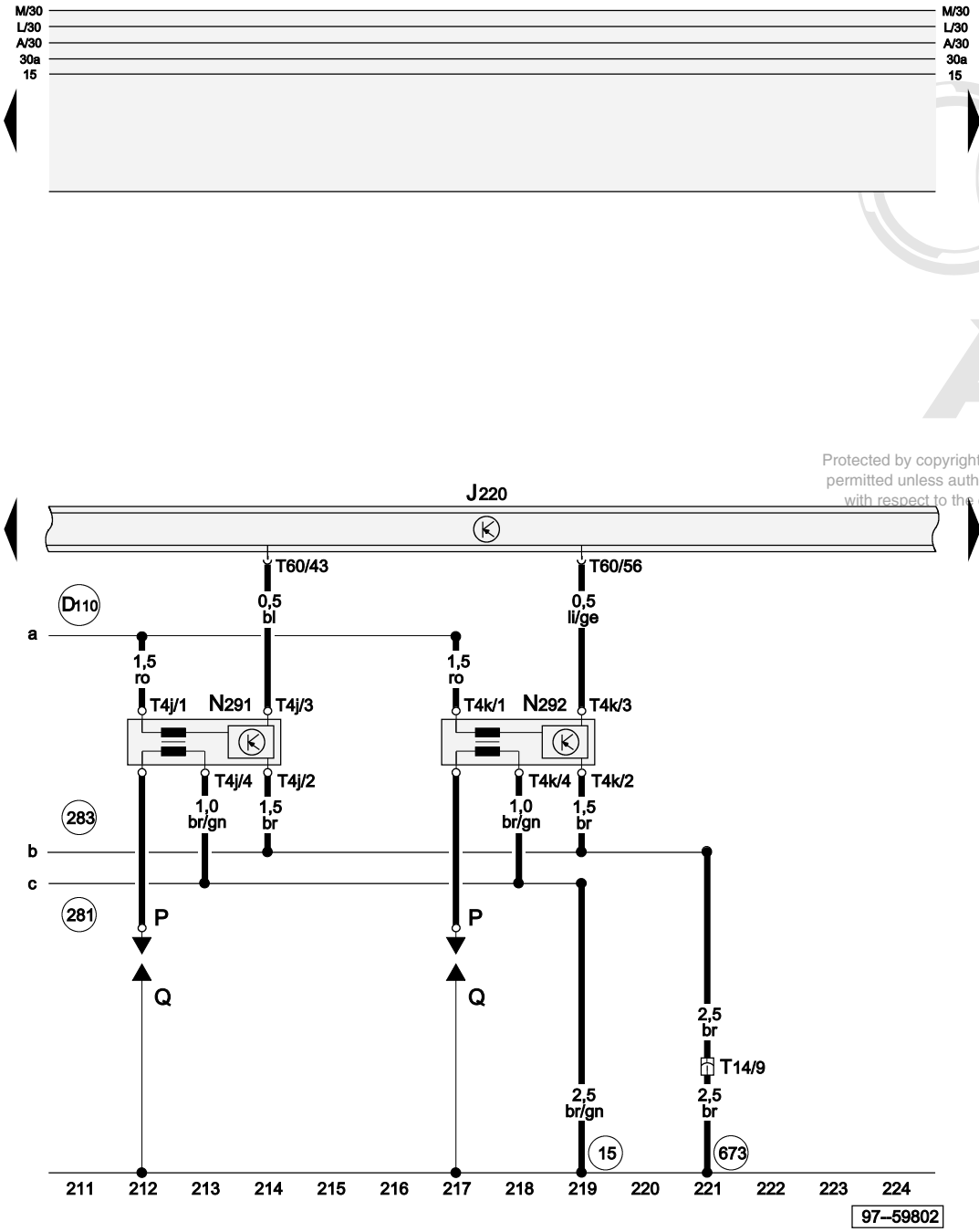


Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
P	Spark plug connector
Q	Spark plugs
SB6	Fuse 6 on fuse holder
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
D110	Connection 8, in engine compartment wiring harness

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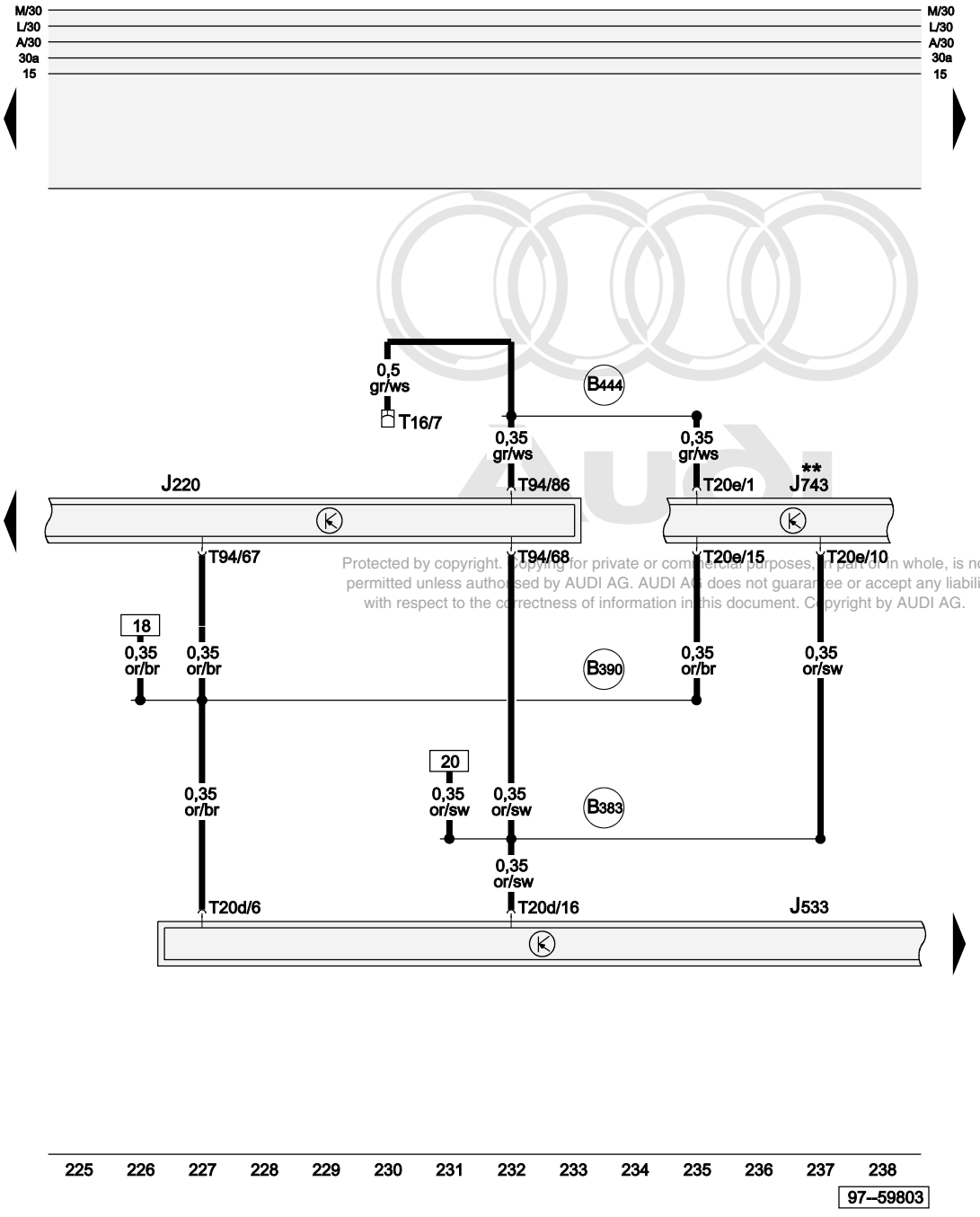


Ignition coils 3 and 4 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4j	4-pin connector, black, on ignition coil 3 with output stage
T4k	4-pin connector, black, on ignition coil 4 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
15	Earth point, on cylinder head
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
673	Earth point 3, on front of left longitudinal member
D110	Connection 8, in engine compartment wiring harness

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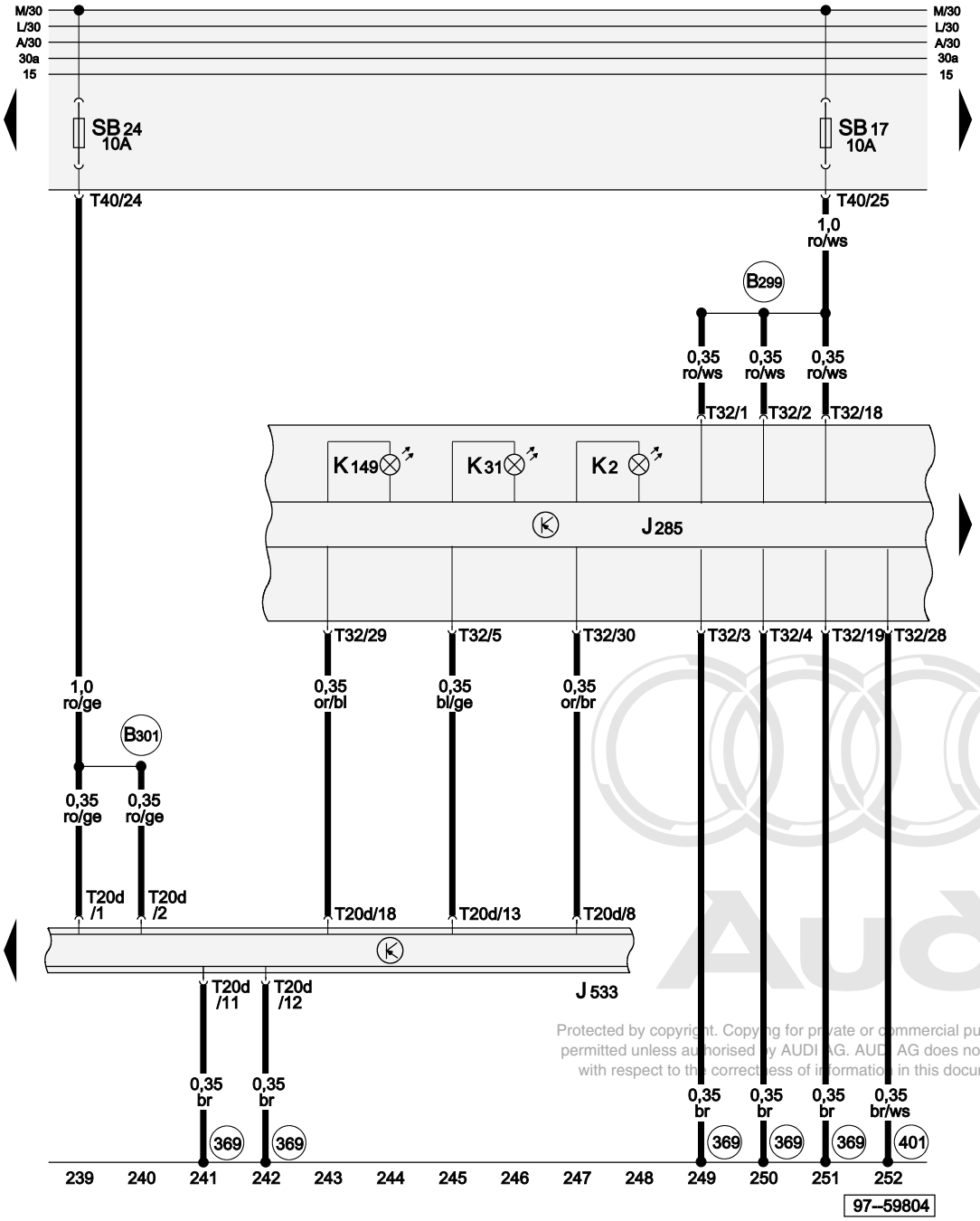


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Drive train CAN bus, K-diagnosis wiring

J220	Motronic control unit
J533	Data bus diagnostic interface
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
**	for models with direct shift gearbox (02E) only

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Data bus diagnostic interface

J285 Control unit in dash panel insert
J533 Data bus diagnostic interface
K2 Alternator warning lamp
K31 Cruise control system warning lamp
K149 Engine electronics warning lamp
SB17 Fuse 17 on fuse holder
SB24 Fuse 24 on fuse holder
T20d 20-pin connector, yellow (connector A)
T32 32-pin connector, blue (connector A)
T40 40-pin connector, black on electronics box, in engine compartment (connector J)

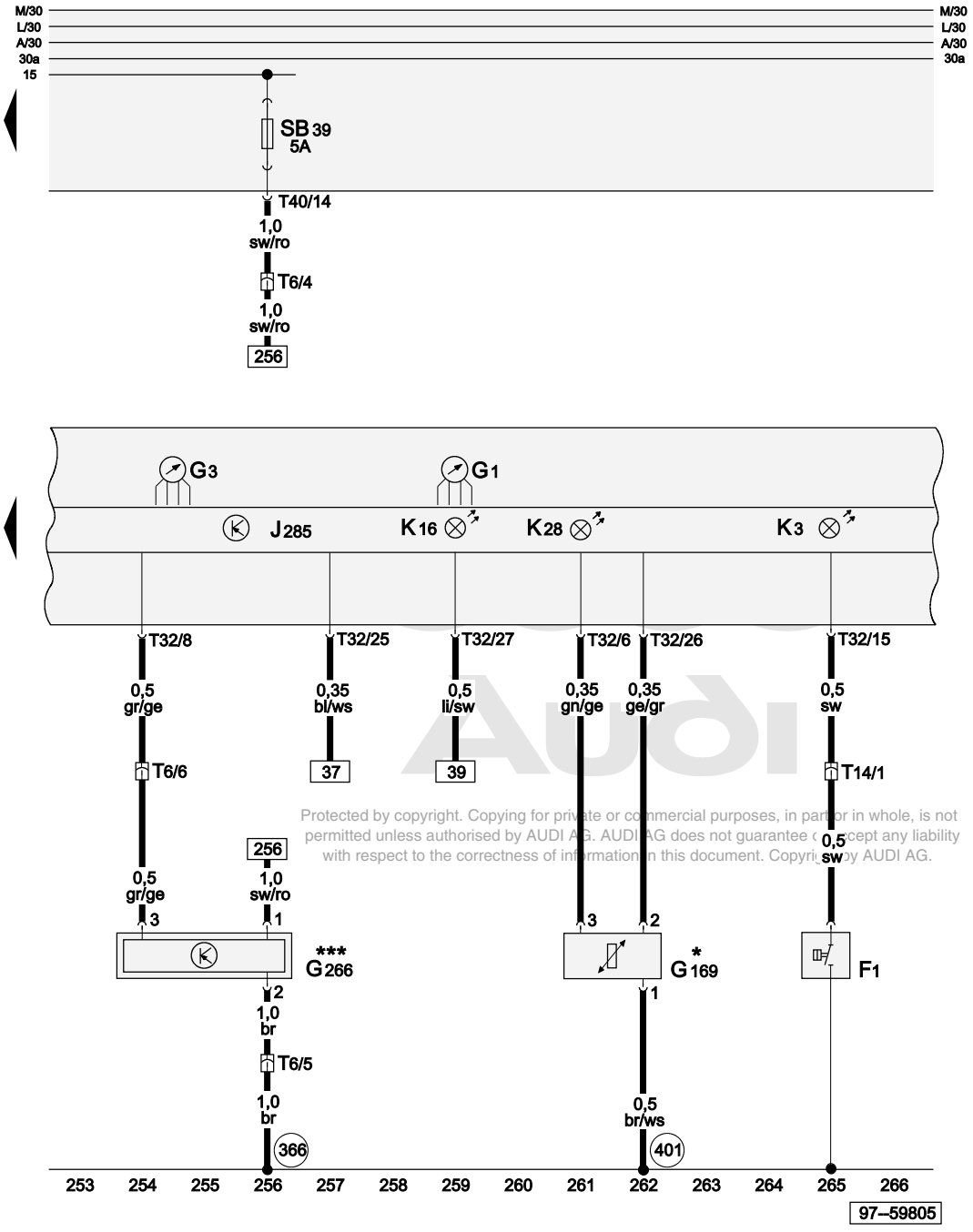
369 Earth connection 4, in main wiring harness

401 Earth connection (sender earth), in interior wiring harness

B299 Positive connection 3 (30), in main wiring harness

B301 Positive connection 5 (30), in main wiring harness

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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G169	Fuel gauge sender 2
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
*	for models with four-wheel drive only
***	for models with extended servicing intervals (ESI) only

2.0 l - Fuel injection engine (110 kW - FSI - 4 cylinder), engine codes BHD, BMB, BLY

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

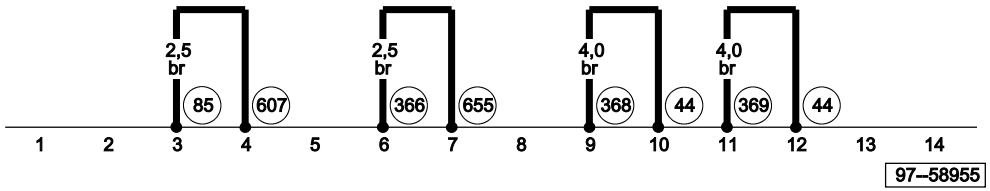
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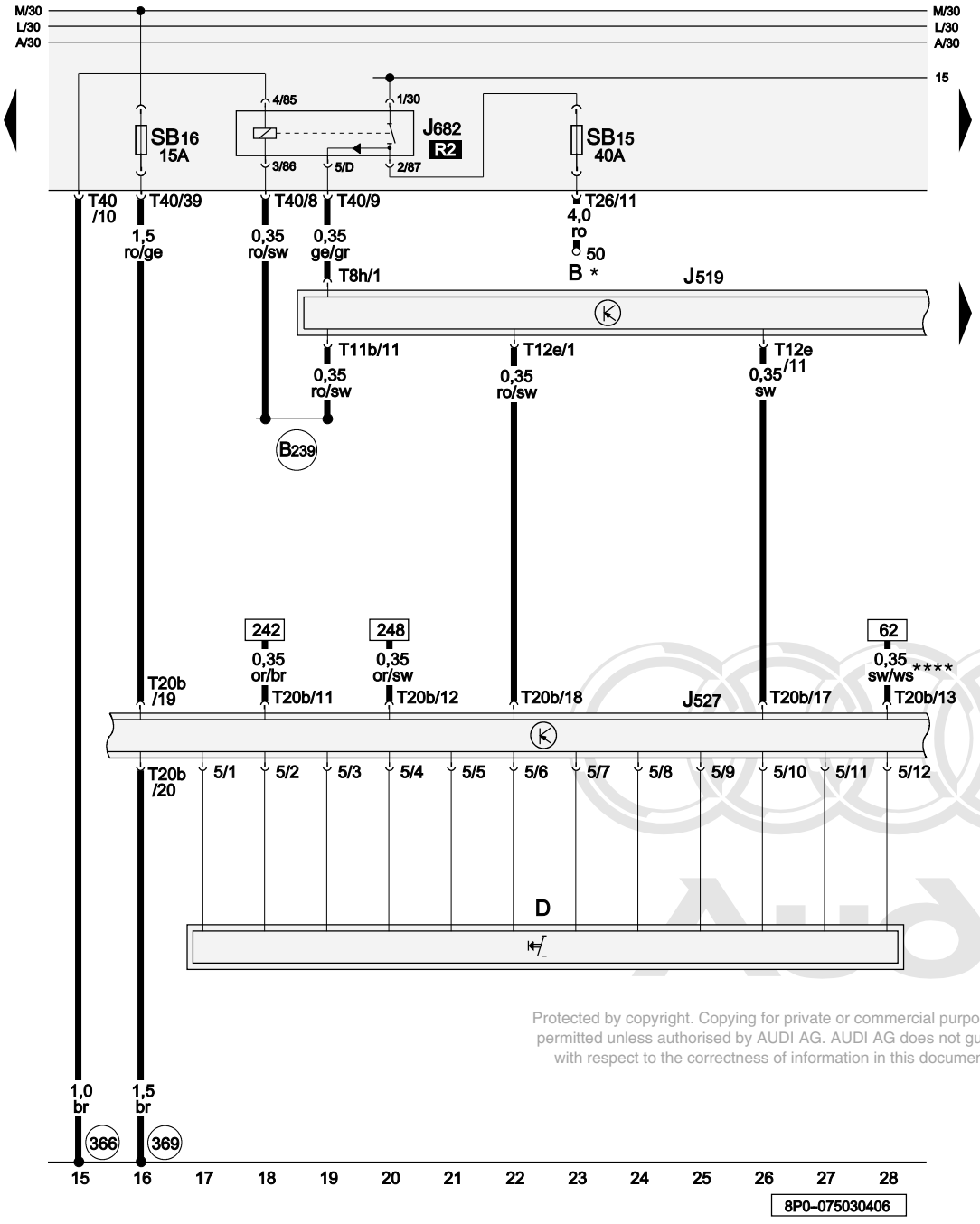
Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection 1, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight

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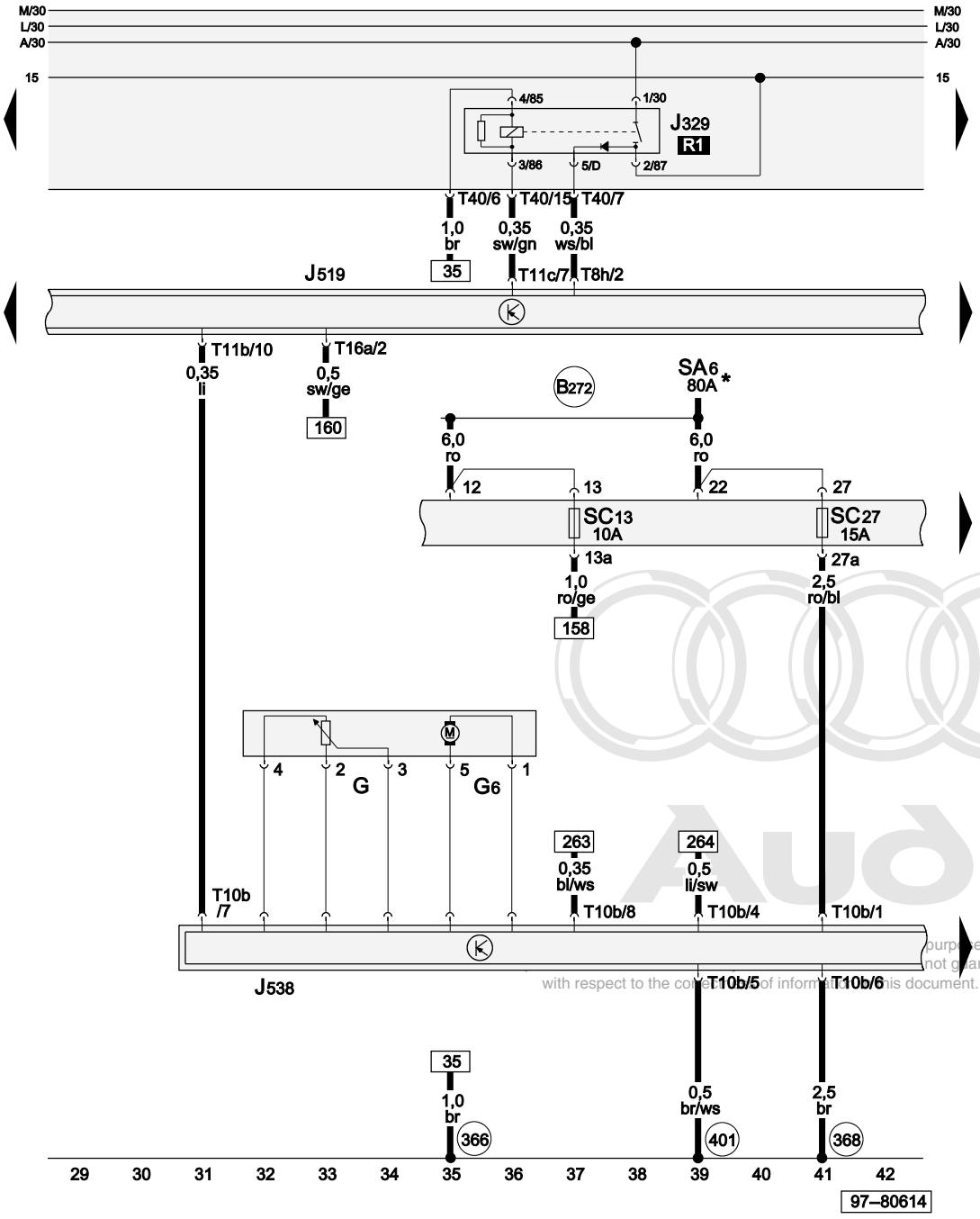


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Terminal 50 voltage supply relay, ignition/starter switch

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
****	for models with cruise control system only

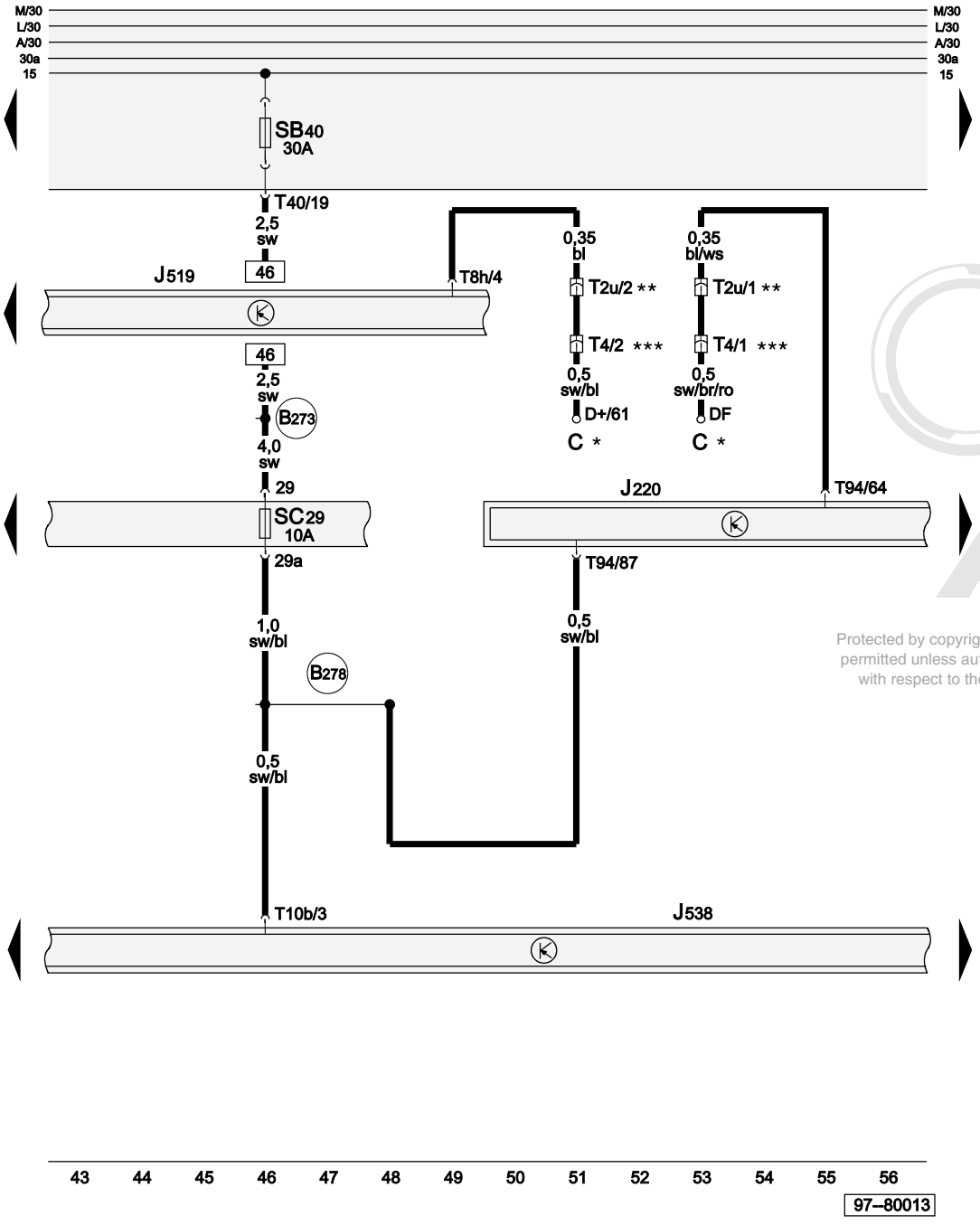


Fuel gauge, fuel pump, terminal 15 voltage supply relay, fuse holder

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J538	Fuel pump control unit
SA6	Fuse 6 on fuse holder on battery
SC13	Fuse 13 on fuse holder
SC27	Fuse 27 on fuse holder
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment

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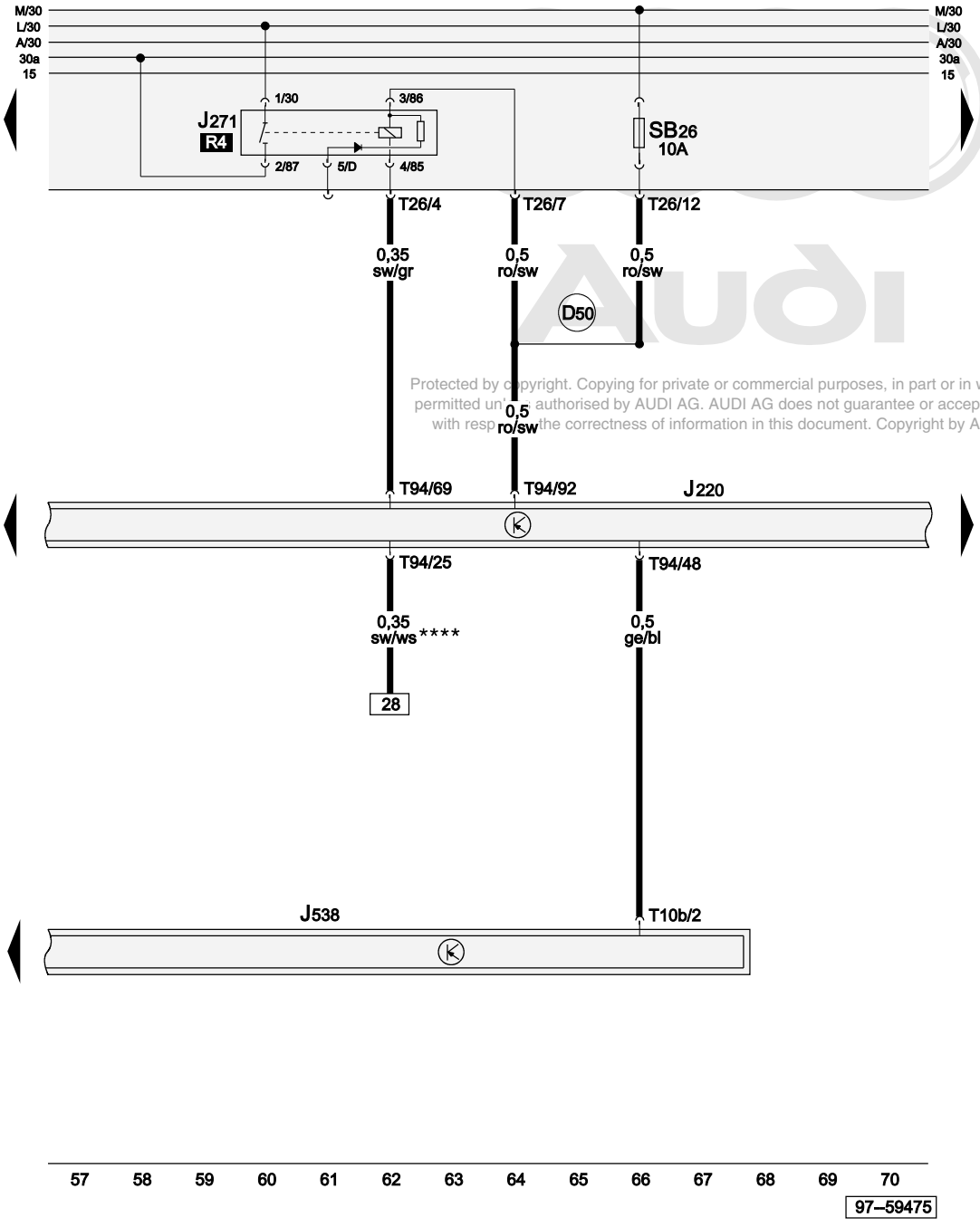


Fuse holder

C	Alternator
J220	Motronic control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
SB40	Fuse 40 on fuse holder
SC29	Fuse 29 on fuse holder
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only

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ge	=	yellow
or	=	orange
rs	=	pink

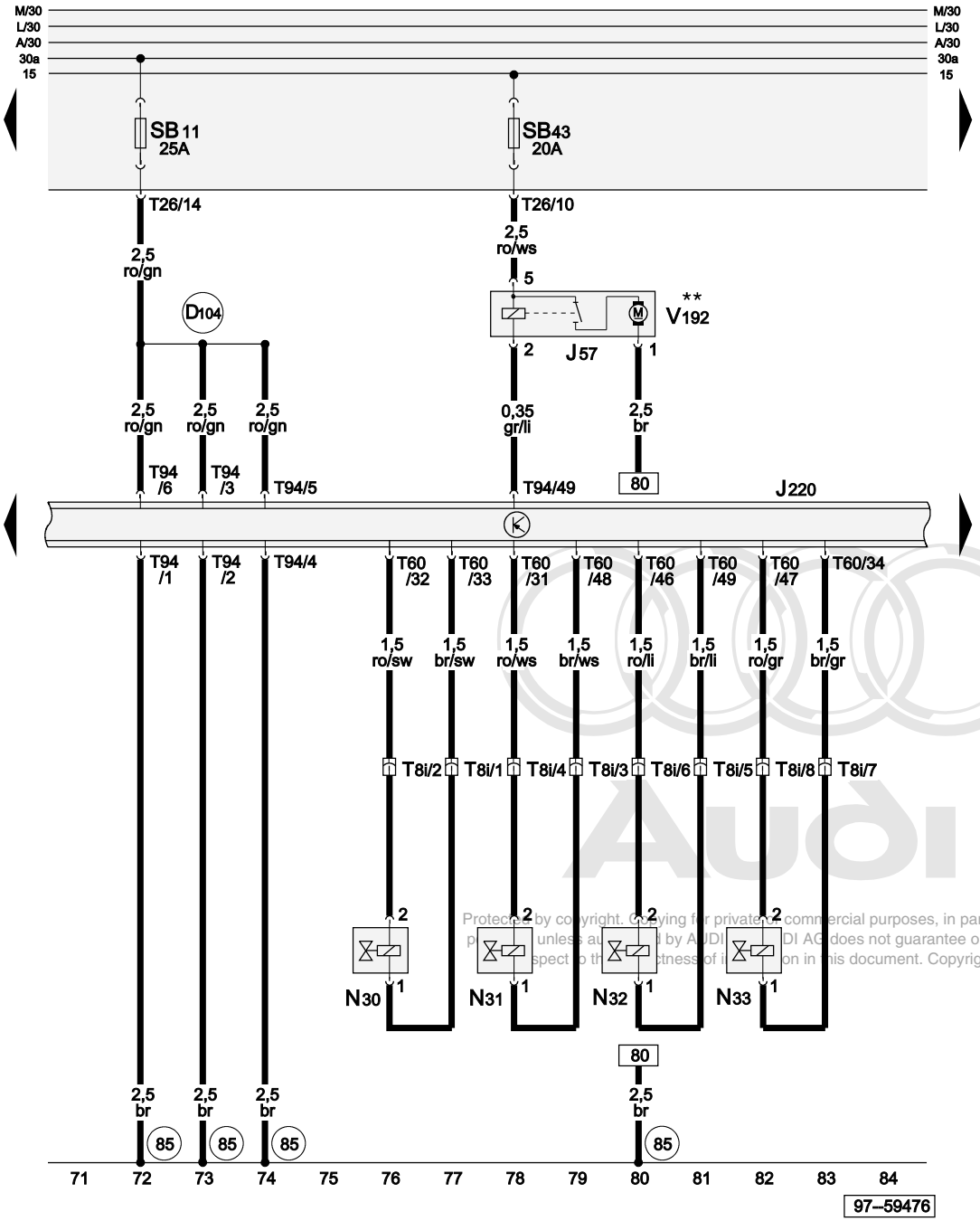


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Motronic current supply relay

J220	Motronic control unit
J271	Motronic current supply relay
J538	Fuel pump control unit
SB26	Fuse 26 on fuse holder
T10b	10-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
D50	Positive connection (30), in engine compartment wiring harness
****	for models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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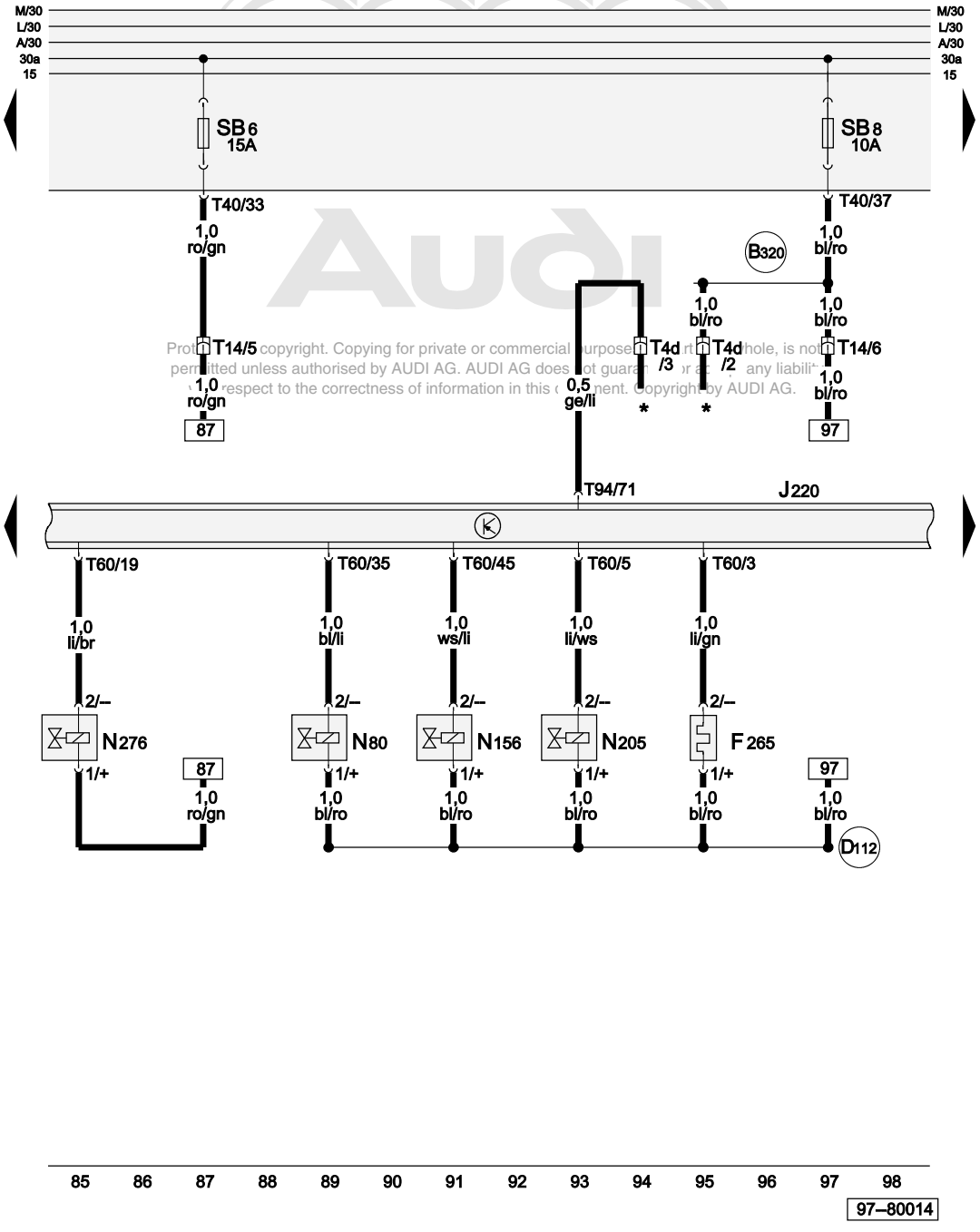


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ge = yellow
or = orange
rs = pink

Injectors, vacuum pump for brakes

J57	Vacuum pump relay
J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SB11	Fuse 11 on fuse holder
SB43	Fuse 43 on fuse holder
T8i	8-pin connector, black, near injectors
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V192	Vacuum pump for brakes
(85)	Earth connection 1, in engine compartment wiring harness
(D104)	Positive connection 2 (30a), in engine compartment wiring harness
**	for models with automatic gearbox only

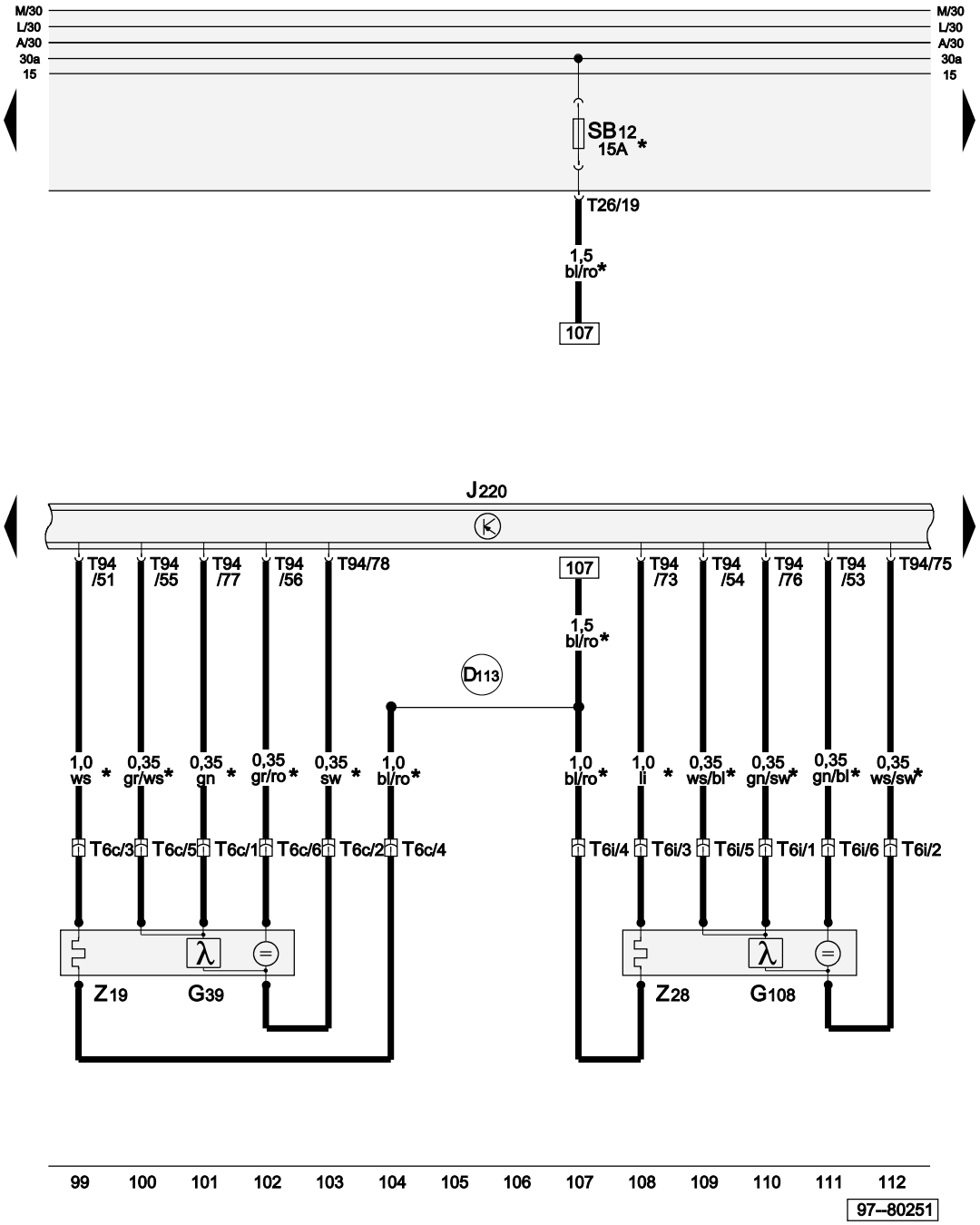


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Solenoid valves, map-controlled engine cooling system thermostat

F265	Map-controlled engine cooling system thermostat
J220	Motronic control unit
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
N276	Fuel pressure regulating valve
SB6	Fuse 6 on fuse holder
SB8	Fuse 8 on fuse holder
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B320	Positive connection 6 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
*	See applicable Current Flow Diagram: radiator fan control

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
rs	=	pink

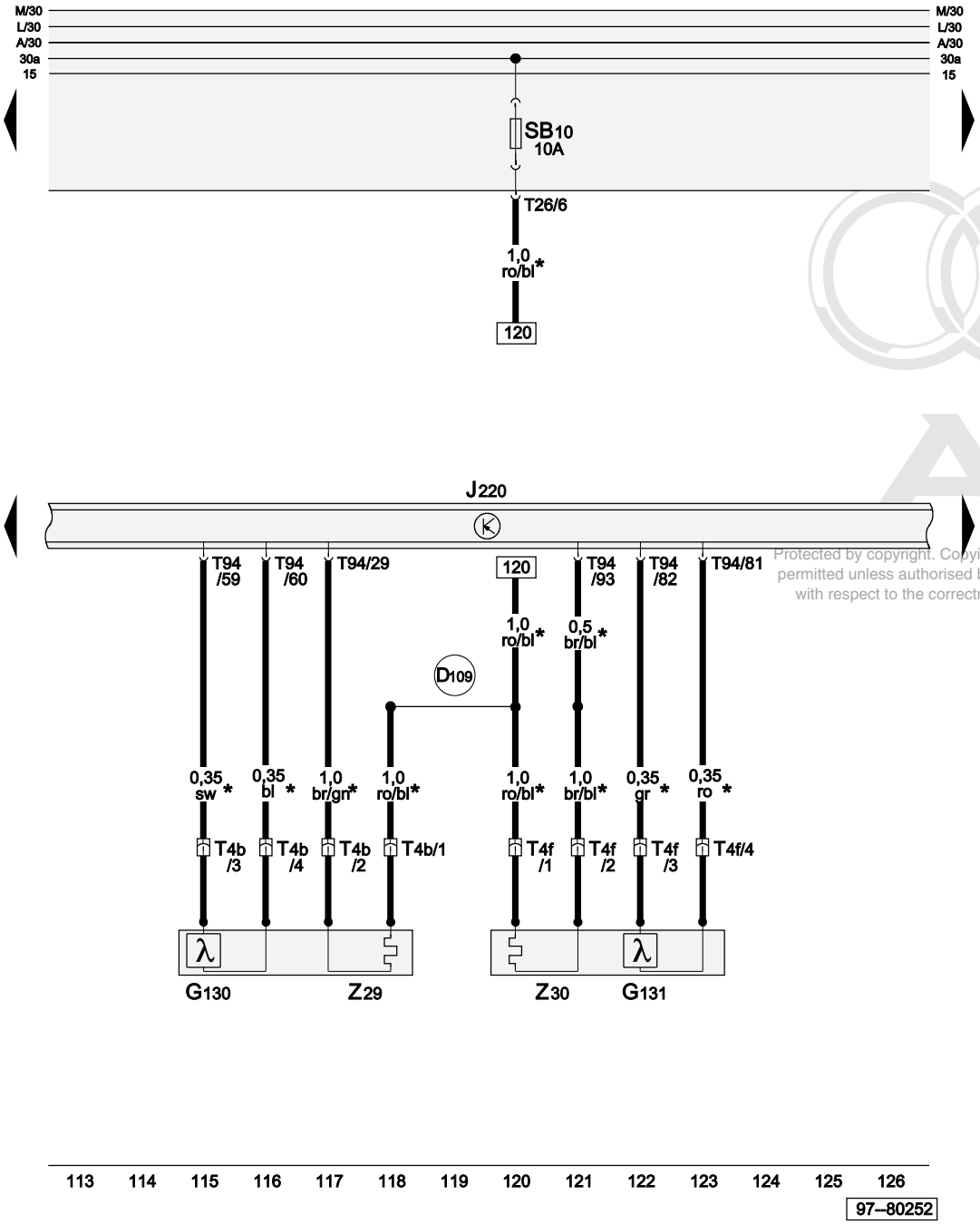


Lambda probe, lambda probe 2

G39	Lambda probe
G108	Lambda probe 2
J220	Motronic control unit
SB12	Fuse 12 on fuse holder
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T6i	6-pin connector, brown, on lambda probe 2 upstream of catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
Z28	Lambda probe 2 heater
D113	Connection 11, in engine compartment wiring harness
*	is dropped from July 2004

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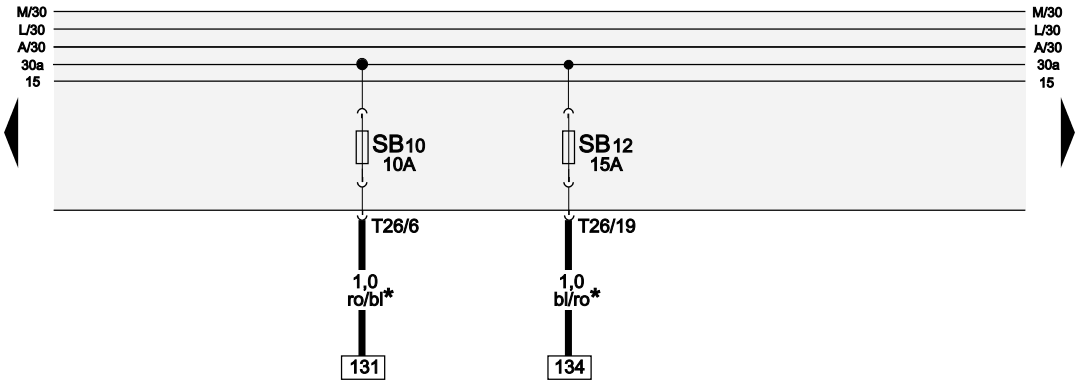


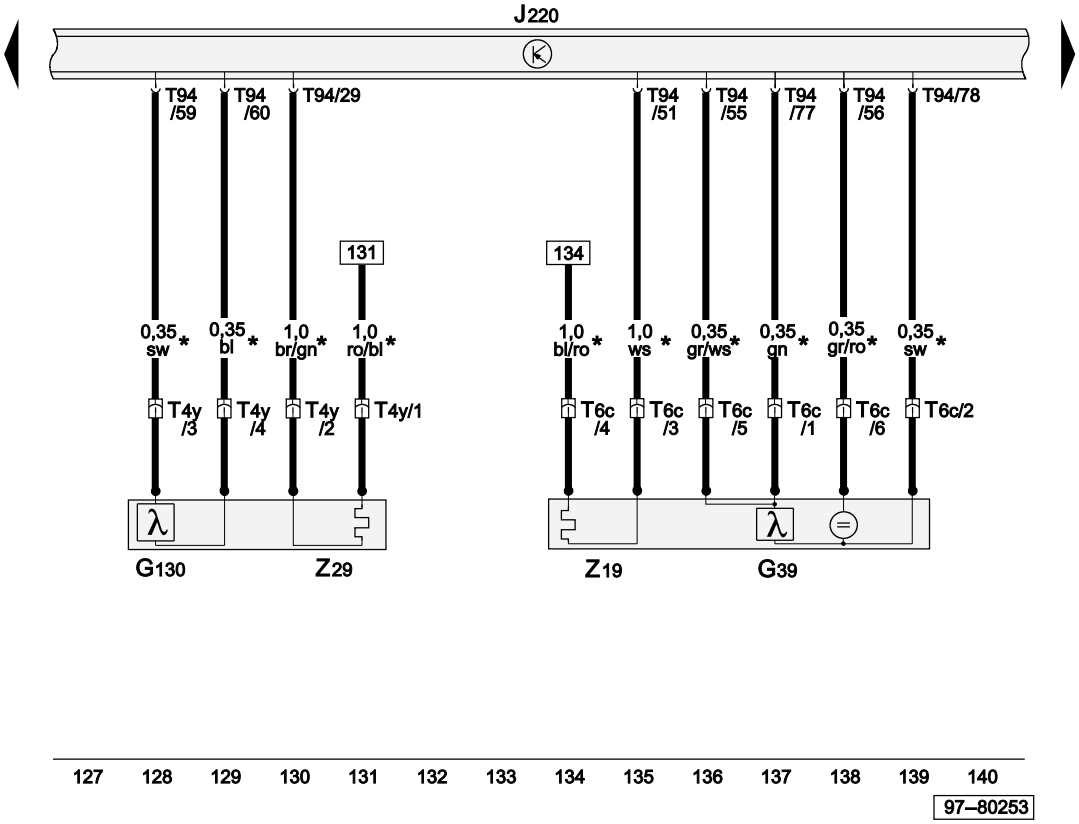
Lambda probe after catalytic converter, lambda probe 2 after catalytic converter

G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
J220	Motronic control unit
SB10	Fuse 10 on fuse holder
T4b	4-pin connector, black, on lambda probe after catalytic converter
T4f	4-pin connector, brown, on lambda probe 2 after catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
D109	Connection 7, in engine compartment wiring harness
*	is dropped from July 2004

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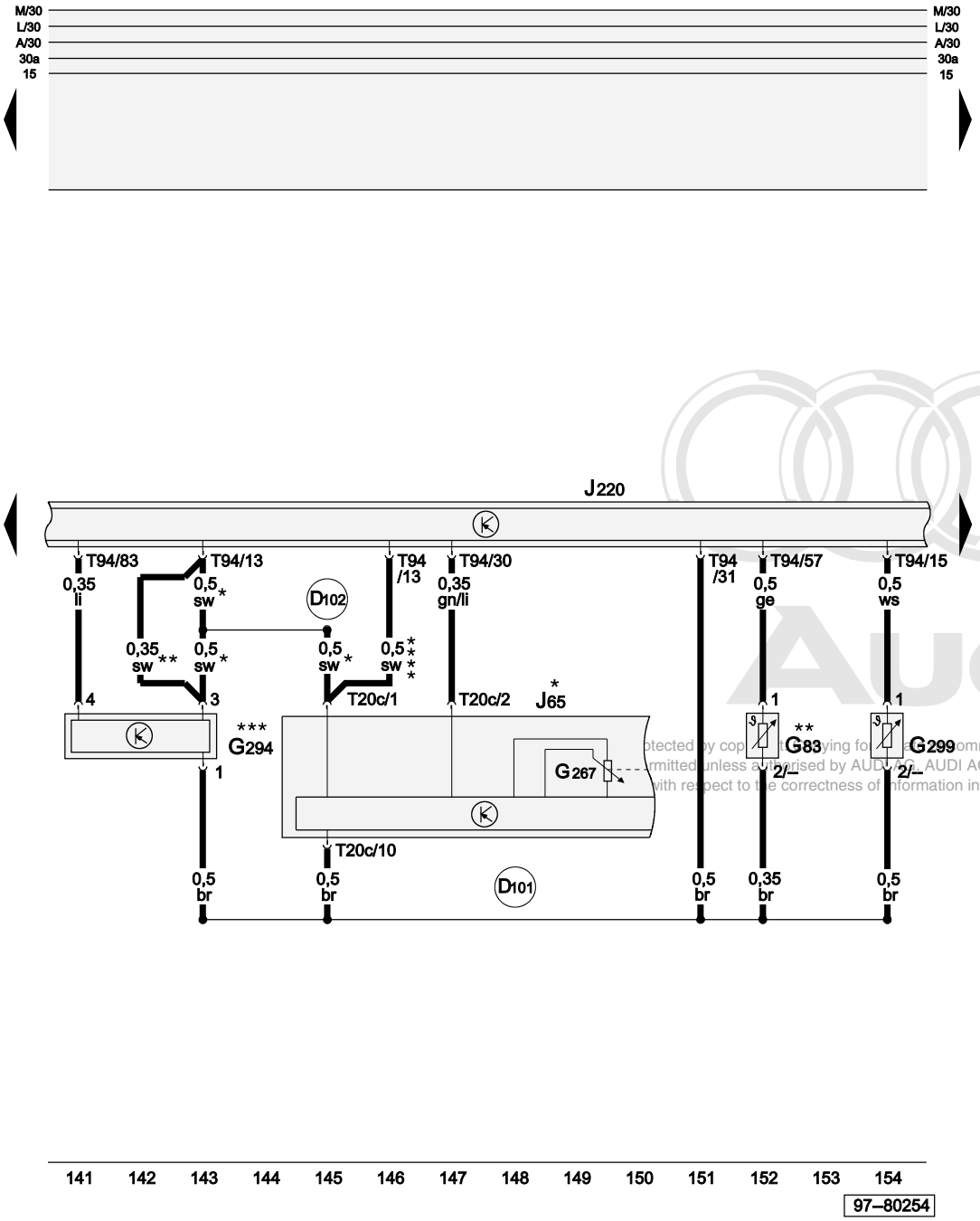


Lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J220	Motronic control unit
SB10	Fuse 10 on fuse holder
SB12	Fuse 12 on fuse holder
T4y	4-pin connector, brown, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
*	applicable from July 2004

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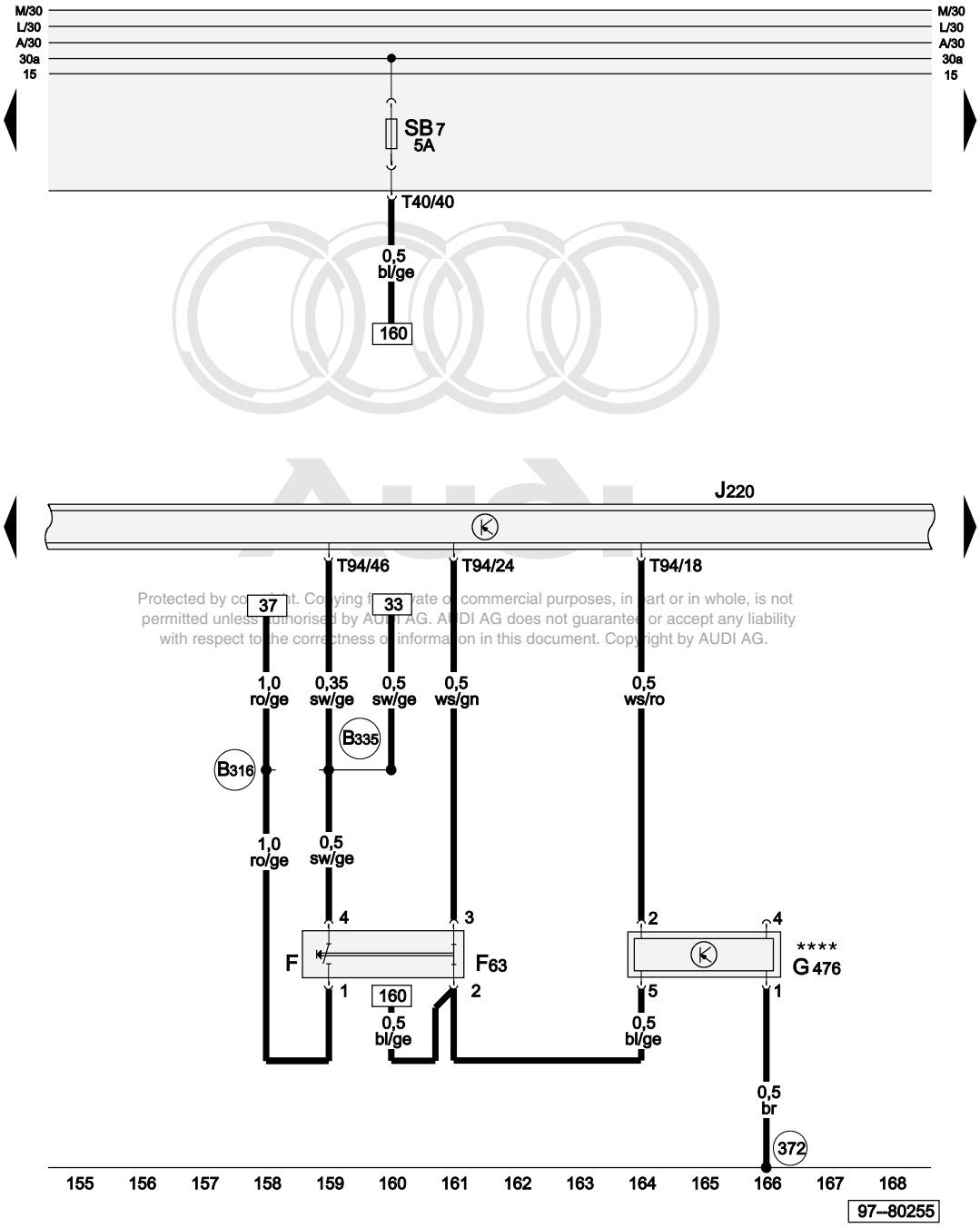


Radiator outlet coolant temperature sender, brake servo pressure sensor

G83	Radiator outlet coolant temperature sender
G267	Potentiometer for temperature selection rotary knob
G294	Brake servo pressure sensor
G299	Intake air temperature sender 2
J65	Heater control unit
J220	Motronic control unit
T20c	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness
*	for models without air conditioning system only
**	for models with air conditioning system only
***	for models with brake servo pressure sensor only
****	for models with anti-lock brake system and automatic gearbox (09G) only

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ro = red
br = brown
gn = green
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ge = yellow
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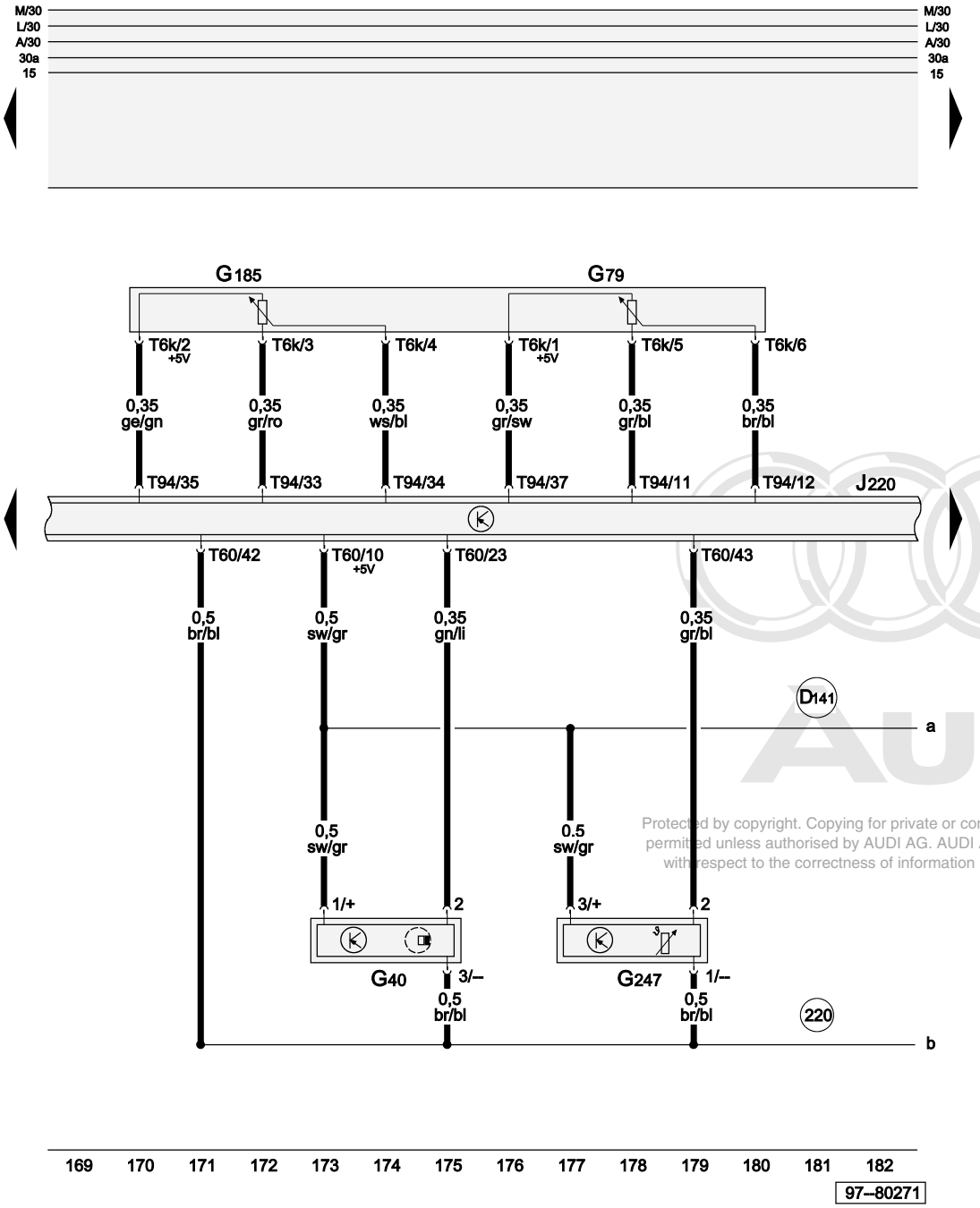


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Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
SB7	Fuse 7 on fuse holder
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
****	for models with manual gearbox only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
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rs	=	pink

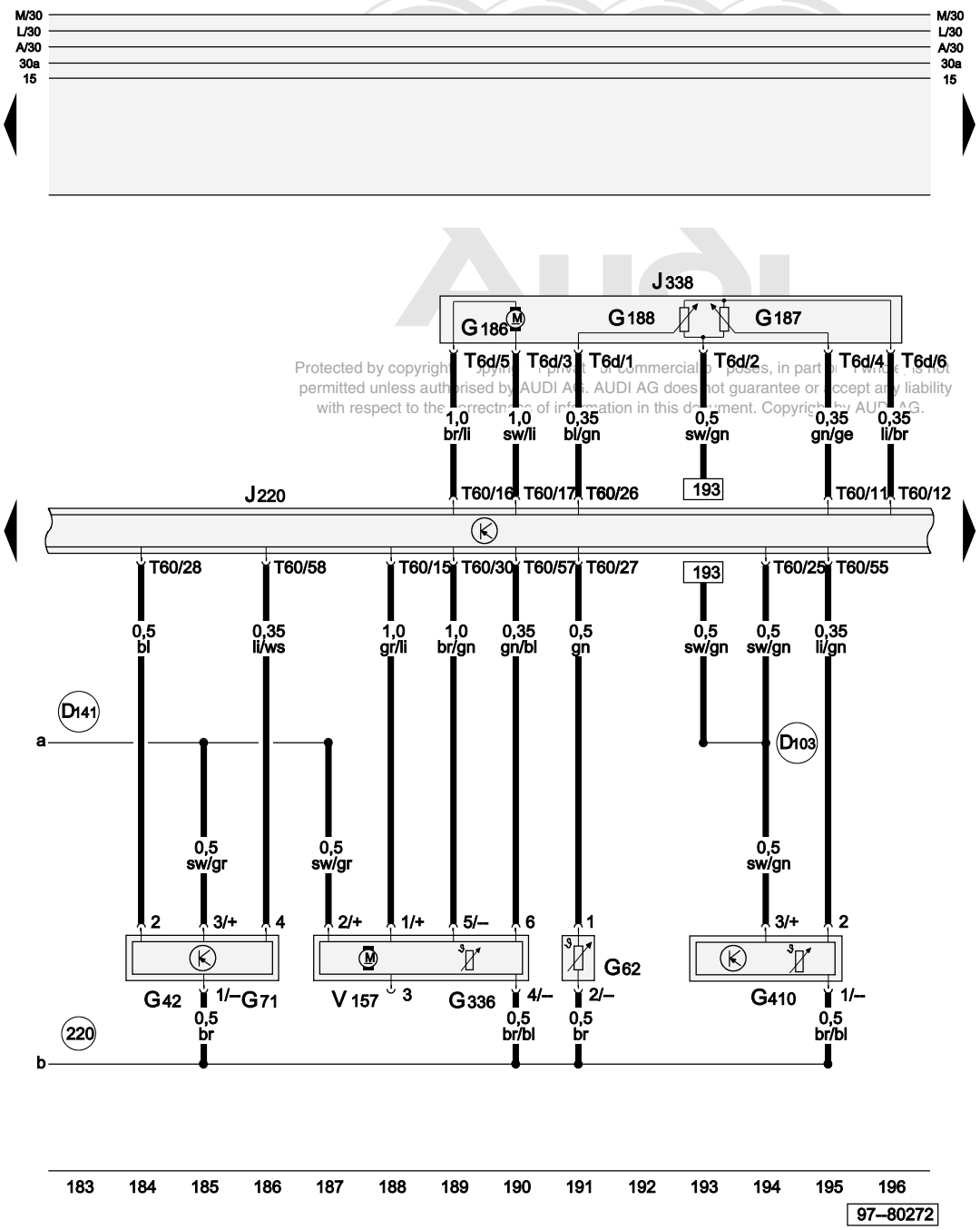


Hall sender, fuel pressure sender

G40	Hall sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G247	Fuel pressure sender
J220	Motronic control unit
T6k	6-pin connector, black, near accelerator position sender
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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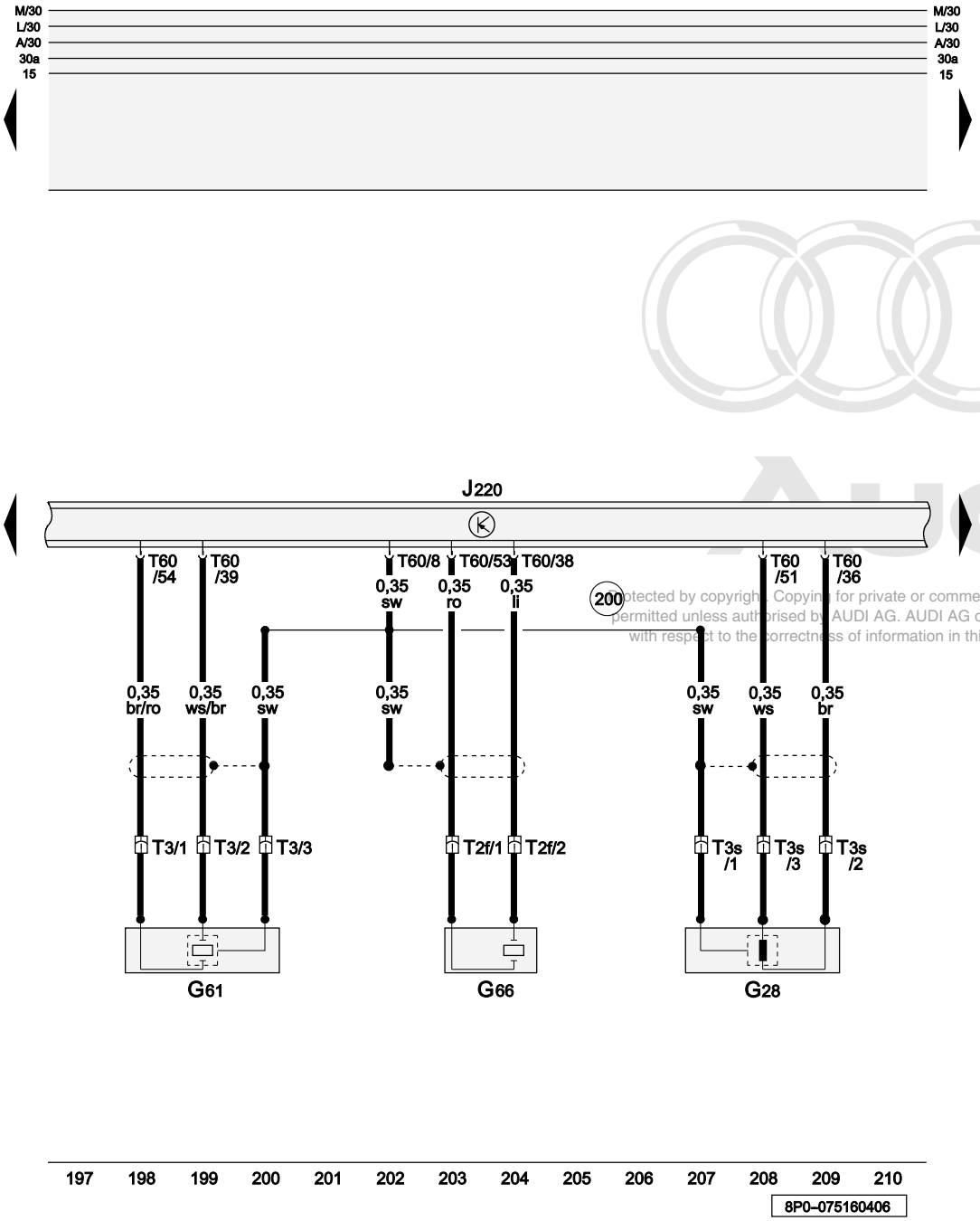


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Intake air temperature sender, coolant temperature, intake manifold pressure

G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
G186	Throttle valve drive, electric throttle
G187	Throttle valve drives angle sender 1, electric throttle
G188	Throttle valve drives angle sender 2, electric throttle
G336	Intake manifold flap potentiometer
G410	Fuel pressure sender, low pressure
J220	Motronic control unit
J338	Throttle valve module
T6d	6-pin connector, black, near throttle valve module
T60	60-pin connector, black (connector A)
V157	Intake manifold flap motor
220	Earth connection (sender earth), in engine wiring harness
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness

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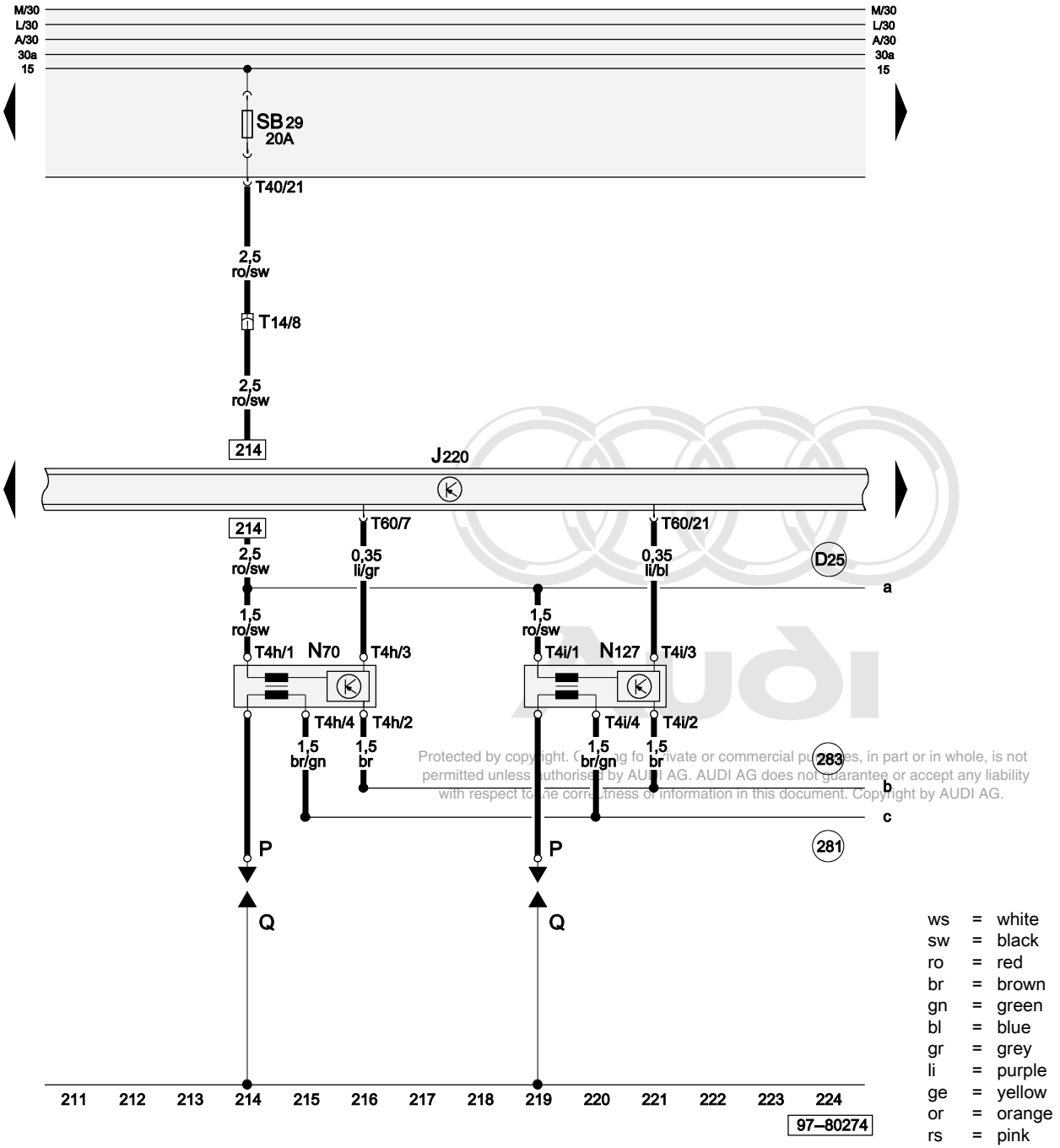


Engine speed sender, knock sensors

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J220	Motronic control unit
T2f	2-pin connector, black, in left engine compartment (knock sensor 2)
T3	3-pin connector, black, in left engine compartment (knock sensor)
T3s	3-pin connector
T60	60-pin connector, black (connector A)
200	Earth connection (screening) in engine compartment wiring harness

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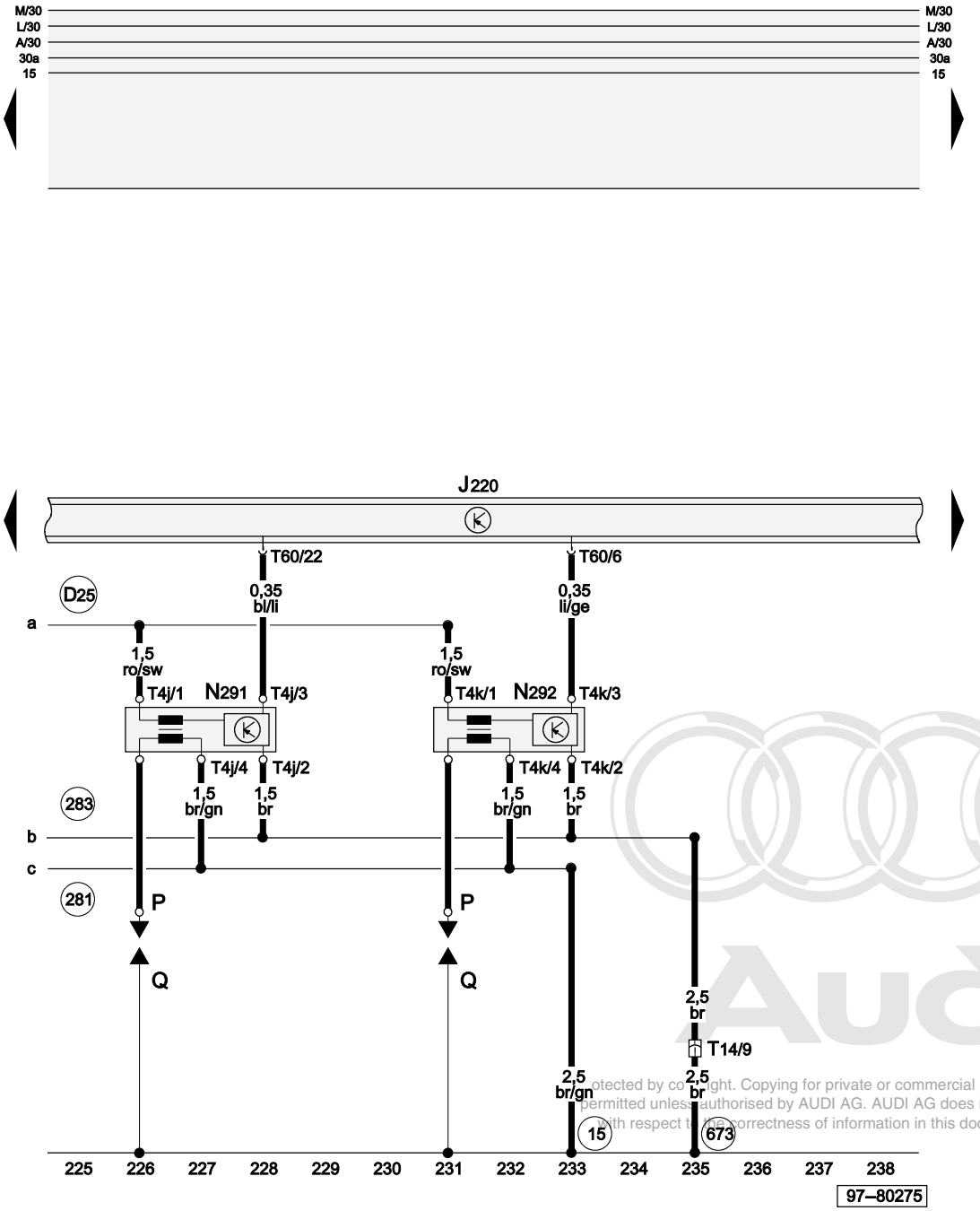


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Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
P	Spark plug connector
Q	Spark plugs
SB29	Fuse 29 on fuse holder
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
D25	Positive connection (15), in engine wiring harness

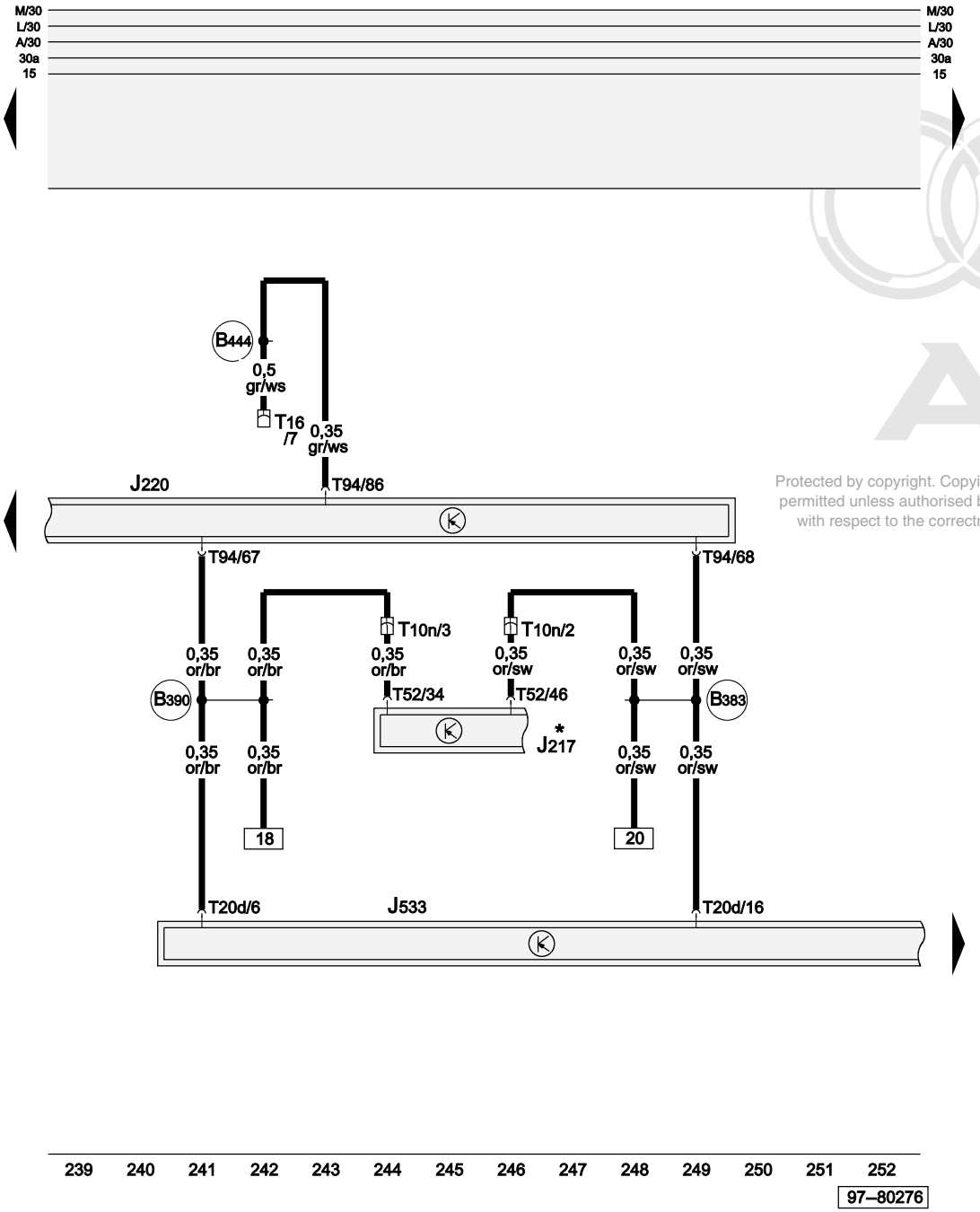


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Ignition coils 3 and 4 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4j	4-pin connector, black, on ignition coil 3 with output stage
T4k	4-pin connector, black, on ignition coil 4 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
15	Earth point, on cylinder head
281	Earth connection 1, in engine wiring harness
283	Earth connection 2, in engine wiring harness
673	Earth point 3, on front of left longitudinal member
D25	Positive connection (15), in engine wiring harness

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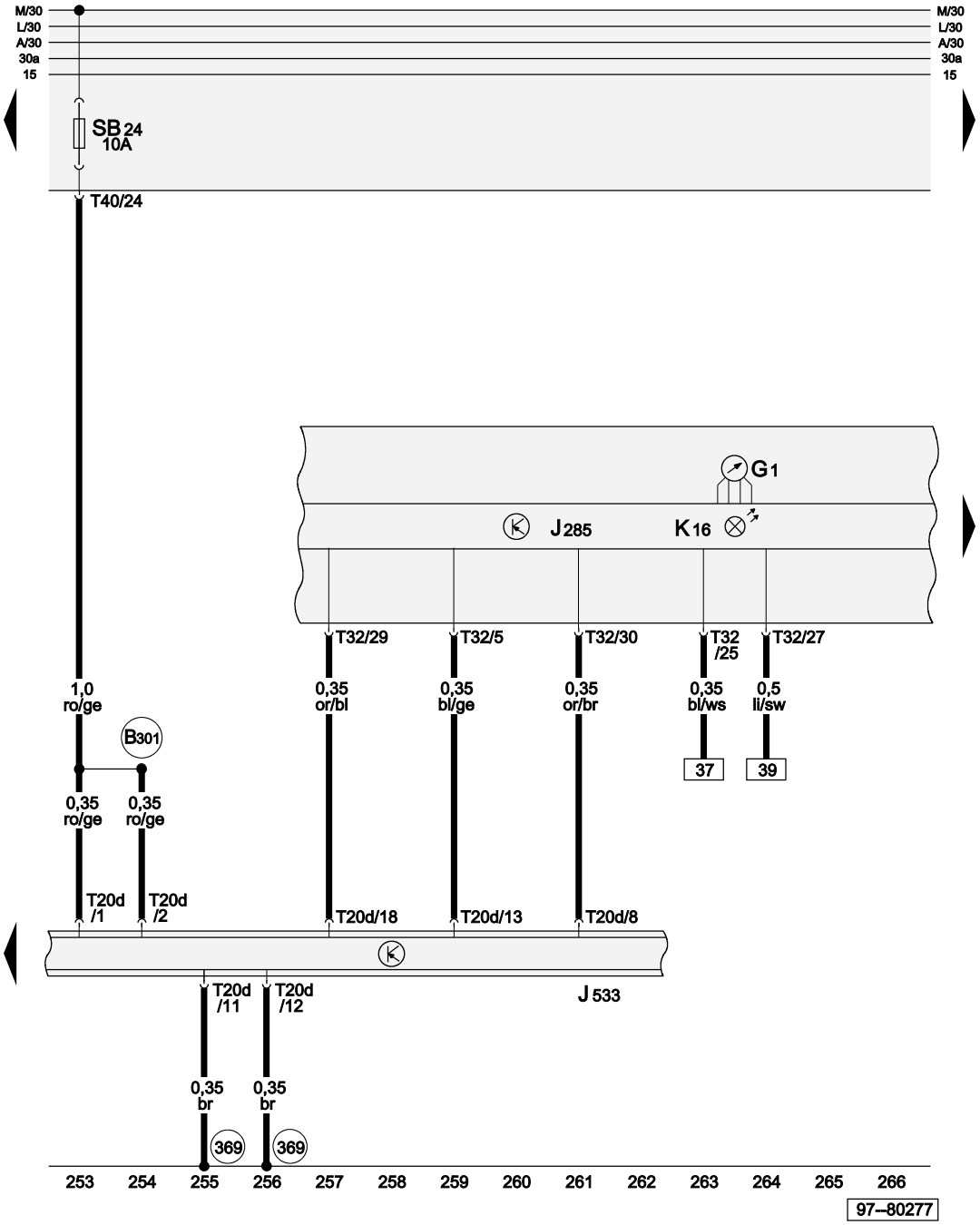


Drive train CAN bus, K-diagnosis wiring

J217	Automatic gearbox control unit
J220	Motronic control unit
J533	Data bus diagnostic interface
T10n	10-pin connector, black, near longitudinal member, front left
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with automatic gearbox (09G) only

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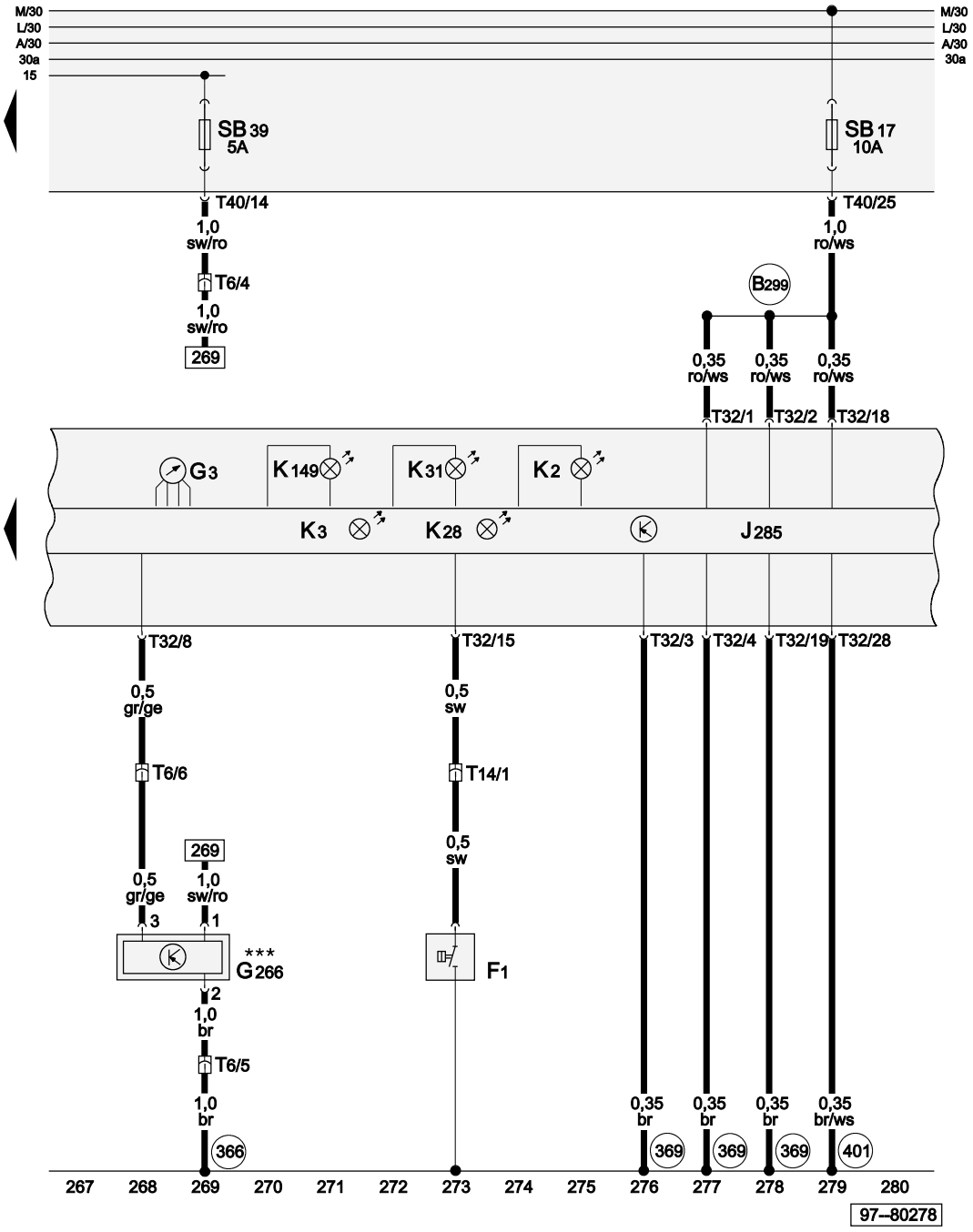


Fuel gauge, reserve fuel warning lamp

G1	Fuel gauge
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K16	Reserve fuel warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
***	for models with extended servicing intervals (ESI) only

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1.9l - Diesel engine (unit injectors), 77kW, 4-cylinder with engine code BKC

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

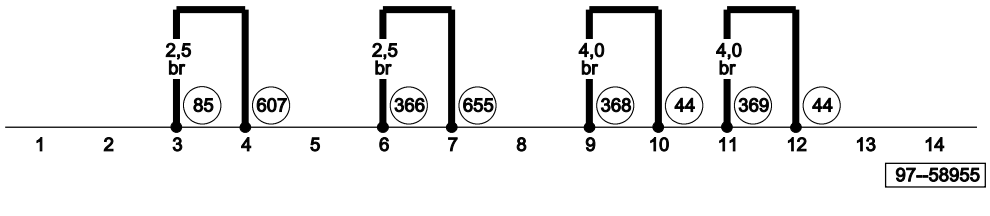
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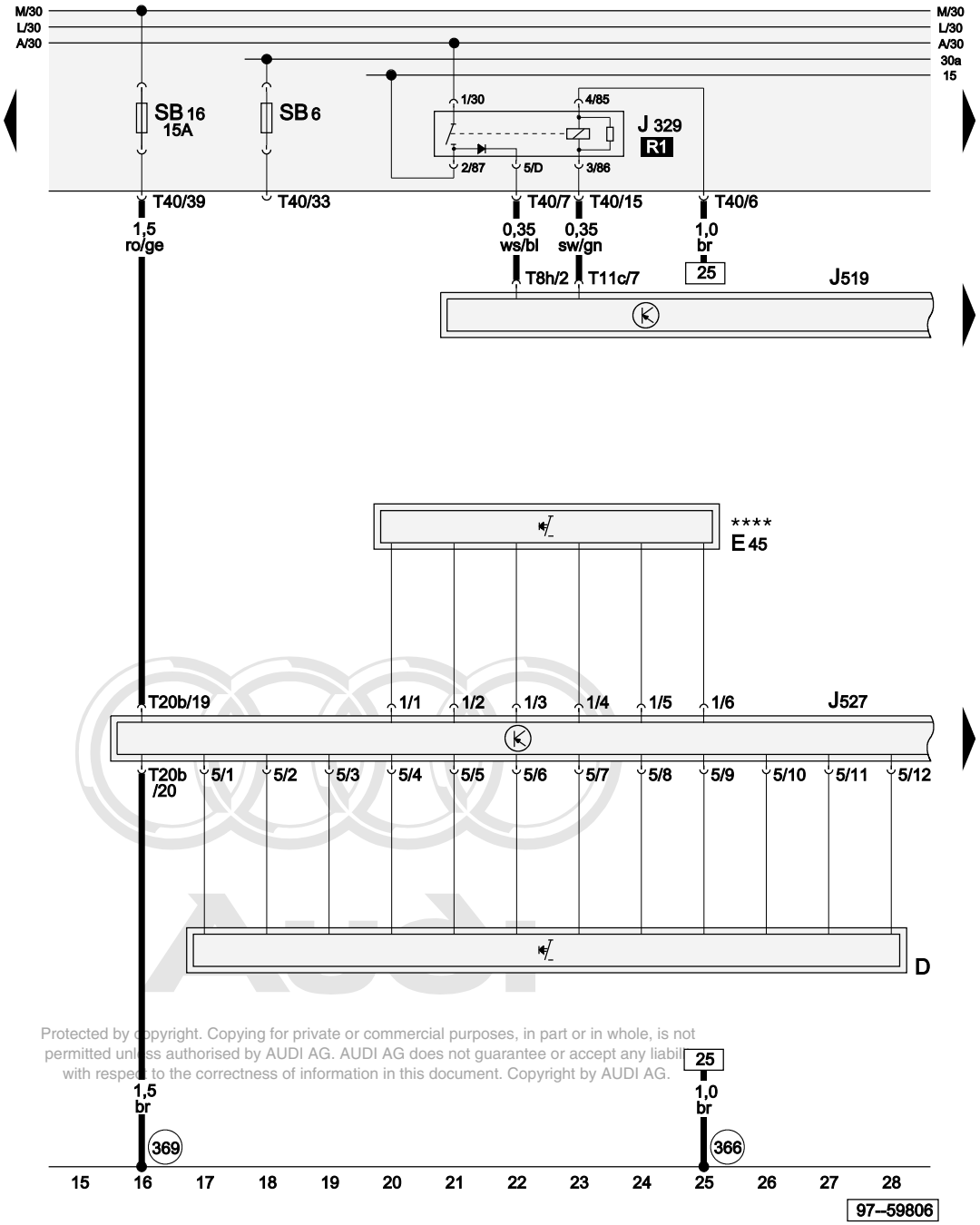
Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection -1-, in engine compartment wiring harness
- 366 Earth connection -1-, in main wiring harness
- 368 Earth connection -3-, in main wiring harness
- 369 Earth connection -4-, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight

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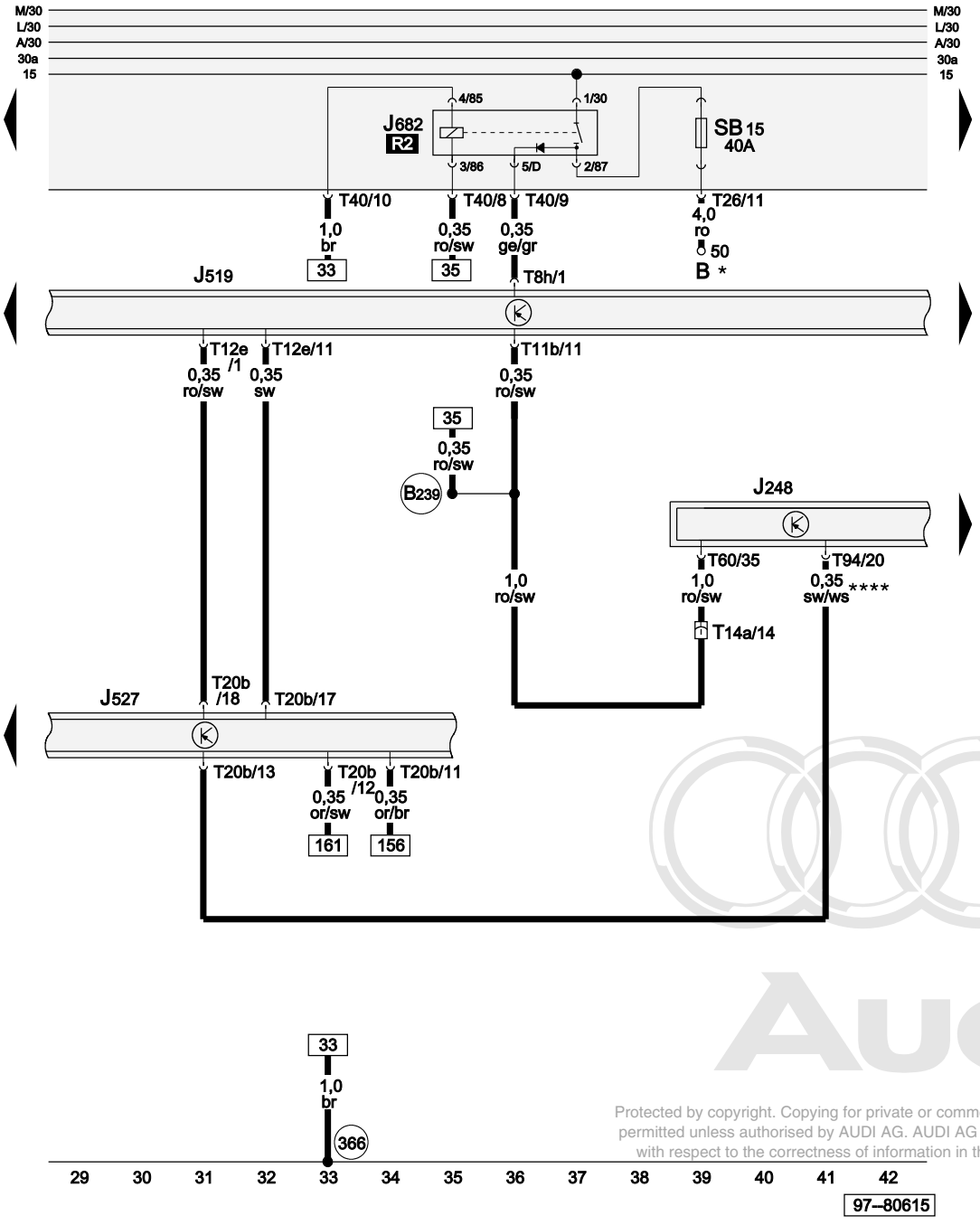


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Terminal 15 voltage supply relay, cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB6	Fuse 6 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
****	for models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

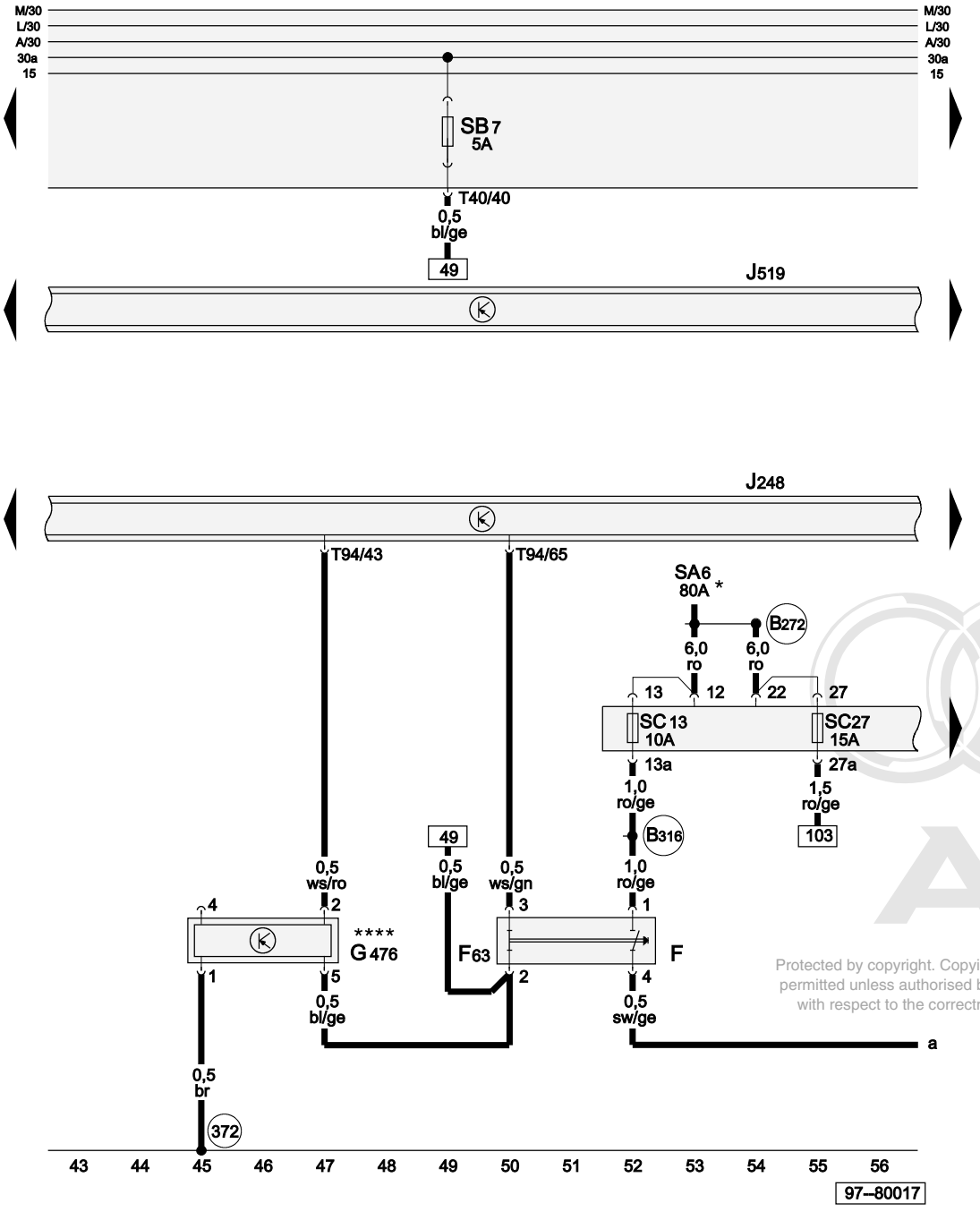


Terminal 50 voltage supply relay

B	Starter
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T14a	14-pin connector, black, near relay carrier electronics box
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
366	Earth connection 1, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
****	for models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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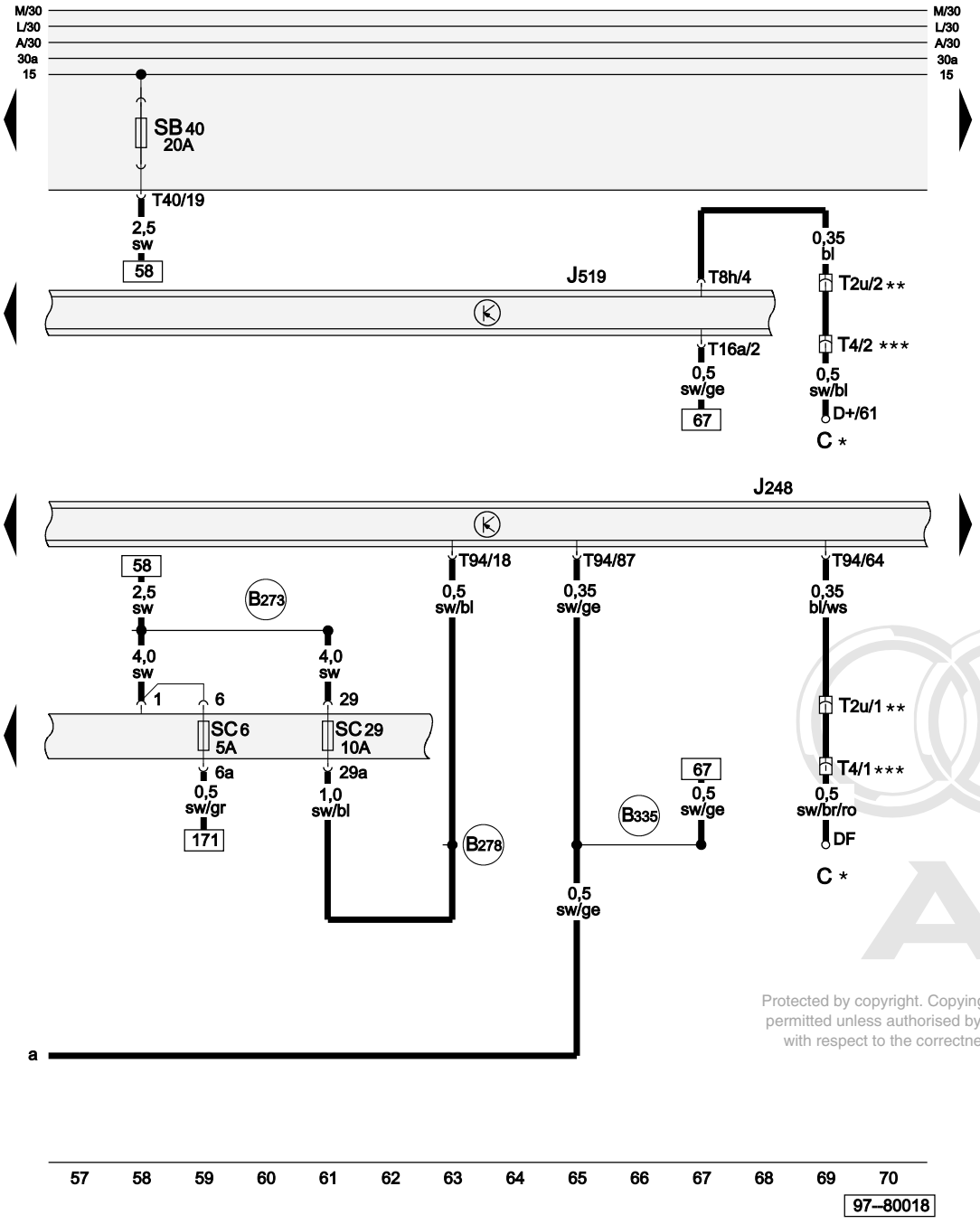


Brake light switch, brake pedal switch, clutch travel sender, fuses on fuse holder

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
SA6	Fuse 6 on fuse holder on battery
SB7	Fuse 7 on fuse holder
SC13	Fuse 13 on fuse holder
SC27	Fuse 27 on fuse holder
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
B272	Positive connection (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
****	for models with manual gearbox only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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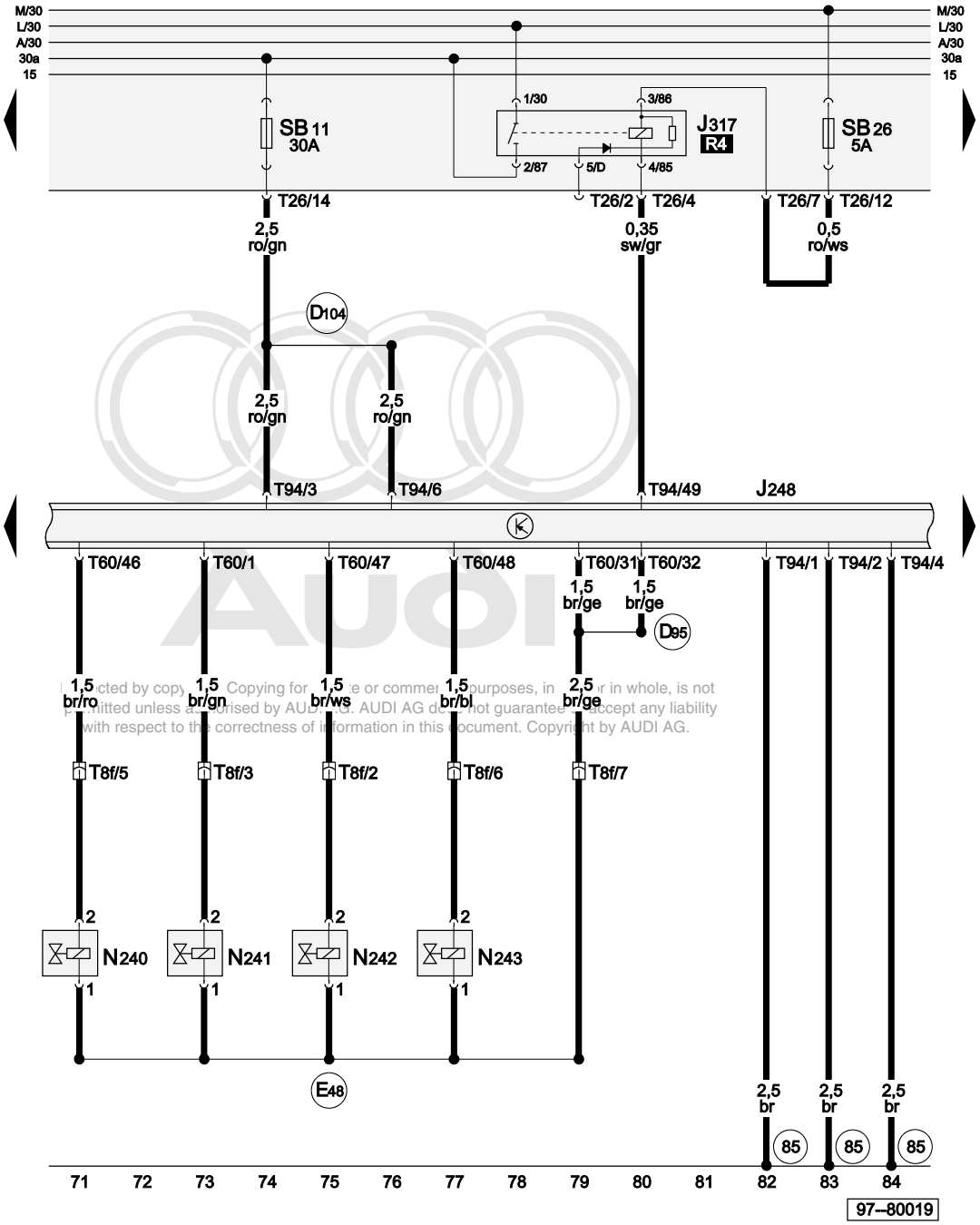


Fuses on fuse holder

C	Alternator
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
SB40	Fuse 40 on fuse holder
SC6	Fuse 6 on fuse holder
SC29	Fuse 29 on fuse holder
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only

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or	=	orange
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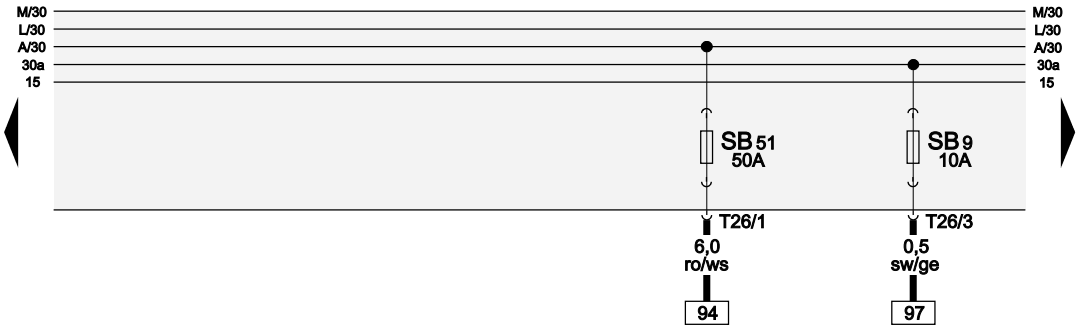


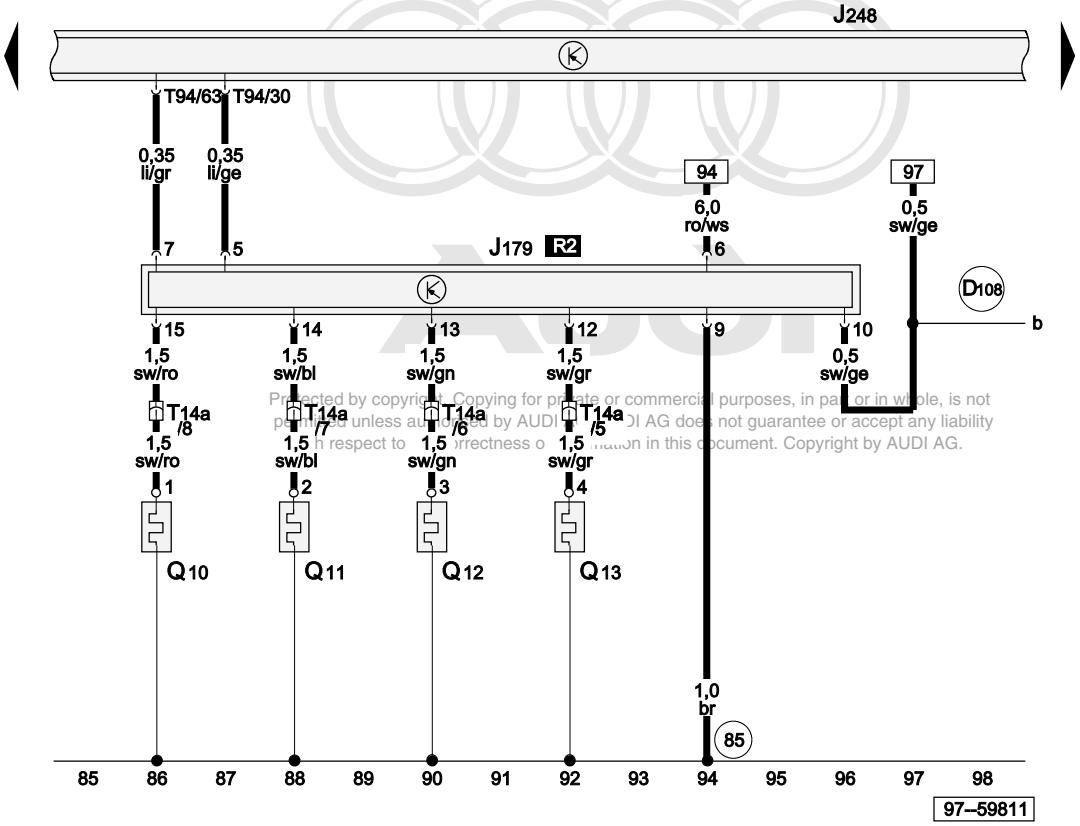
Terminal 30 voltage supply relay, unit injector valves

J248	Diesel direct injection system control unit
J317	Terminal 30 voltage supply relay
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB11	Fuse 11 on fuse holder
SB26	Fuse 26 on fuse holder
T8f	8-pin connector, black, in engine compartment
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
85	Earth connection 1, in engine compartment wiring harness
D95	Connection (injectors), in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

ws	=	white
sw	=	black
ro	=	red
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or	=	orange
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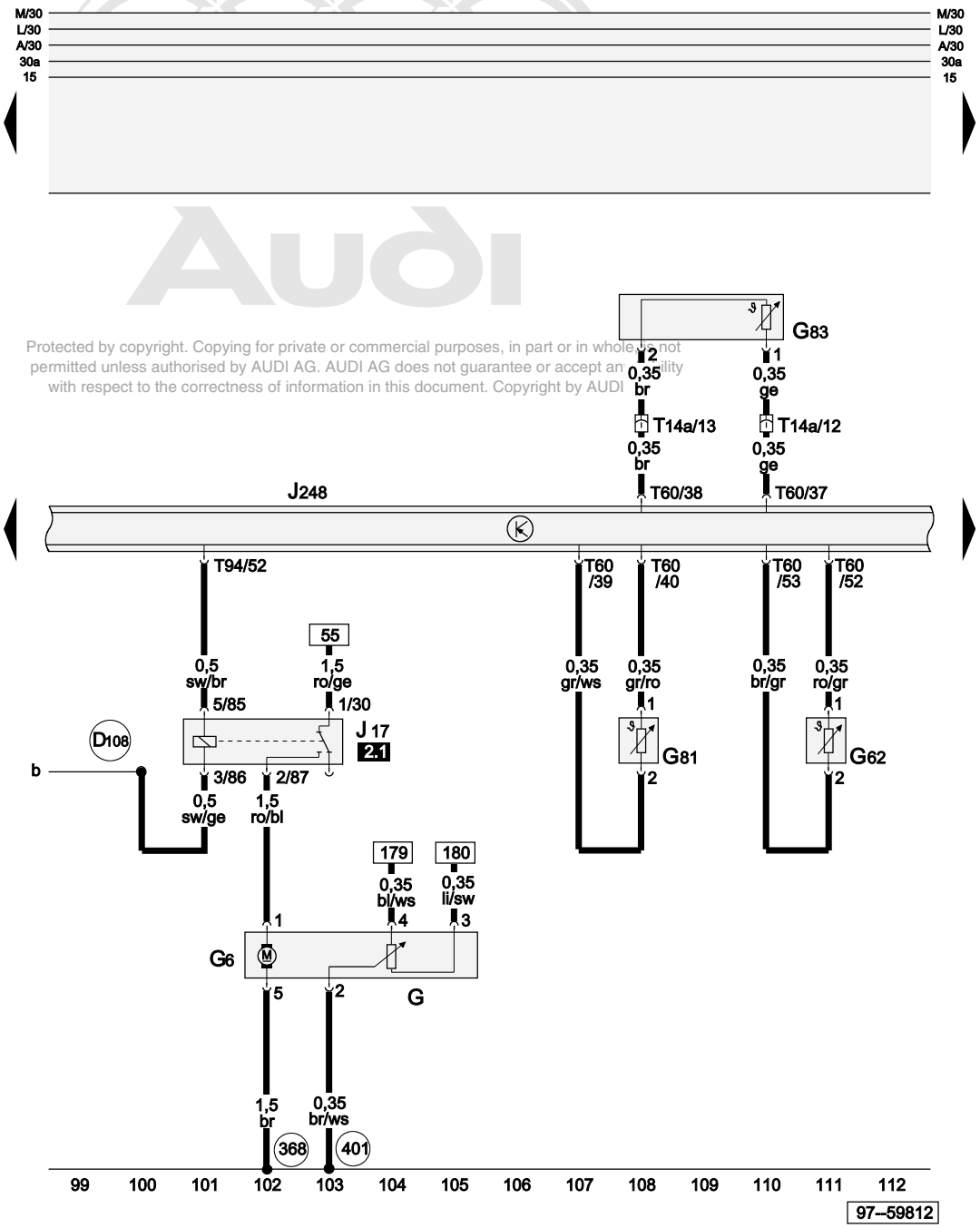


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Glow plugs, automatic glow period control unit

J179	Automatic glow period control unit
J248	Diesel direct injection system control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
SB9	Fuse 9 on fuse holder
SB51	Fuse 51 on fuse holder
T14a	14-pin connector, black, near relay carrier electronics box
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
85	Earth connection 1, in engine compartment wiring harness
D108	Connection 6, in engine compartment wiring harness

ws	=	white
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gn	=	green
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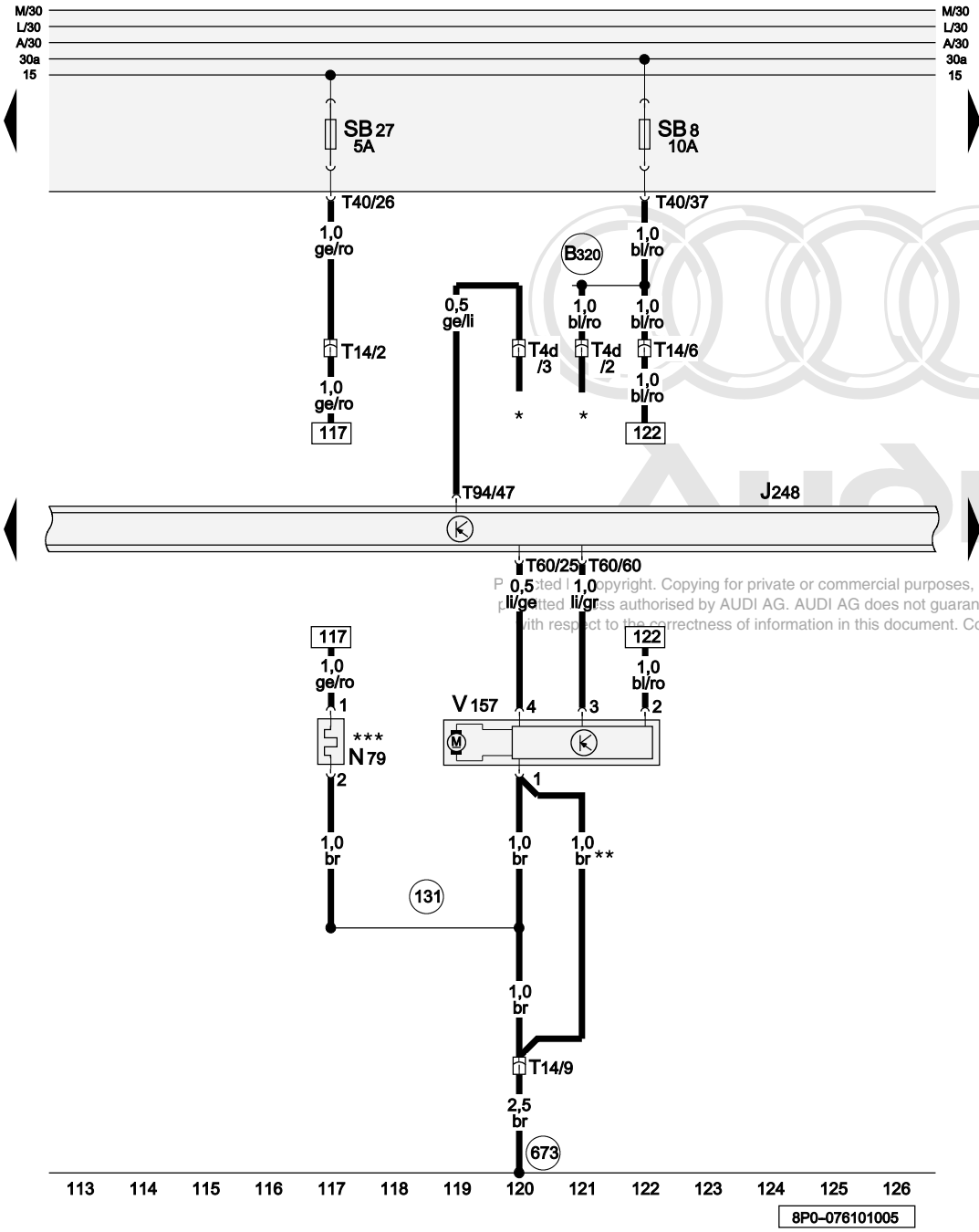


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Fuel pump, temperature sender

G	Fuel gauge sender
G6	Fuel system pressurisation pump
G62	Coolant temperature sender
G81	Fuel temperature sender
G83	Radiator outlet coolant temperature sender
J17	Fuel pump relay
J248	Diesel direct injection system control unit
T14a	14-pin connector, black, near relay carrier electronics box
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
D108	Connection 6, in engine compartment wiring harness

ws	=	white
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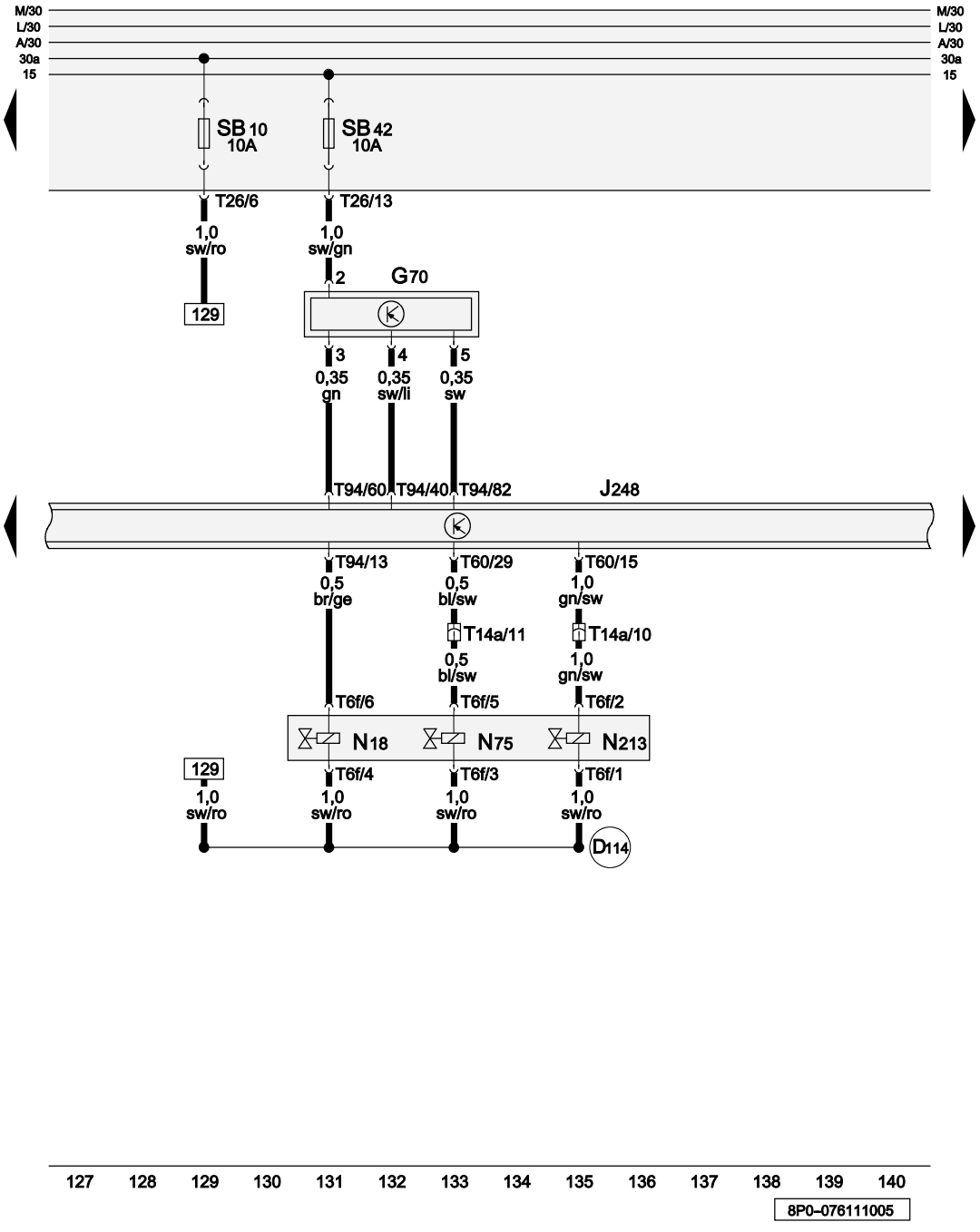


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Heater element for crankcase breather, intake manifold flap motor

J248	Diesel direct injection system control unit
N79	Heater element for crankcase breather
SB8	Fuse 8 on fuse holder B
SB27	Fuse 27 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V157	Intake manifold flap motor
131	Earth connection 2, in engine compartment wiring harness
673	Earth point 3, on front of left longitudinal member
B320	Positive connection 6 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan
**	for models without heater element only
***	for models with heater element only

ws	=	white
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gn	=	green
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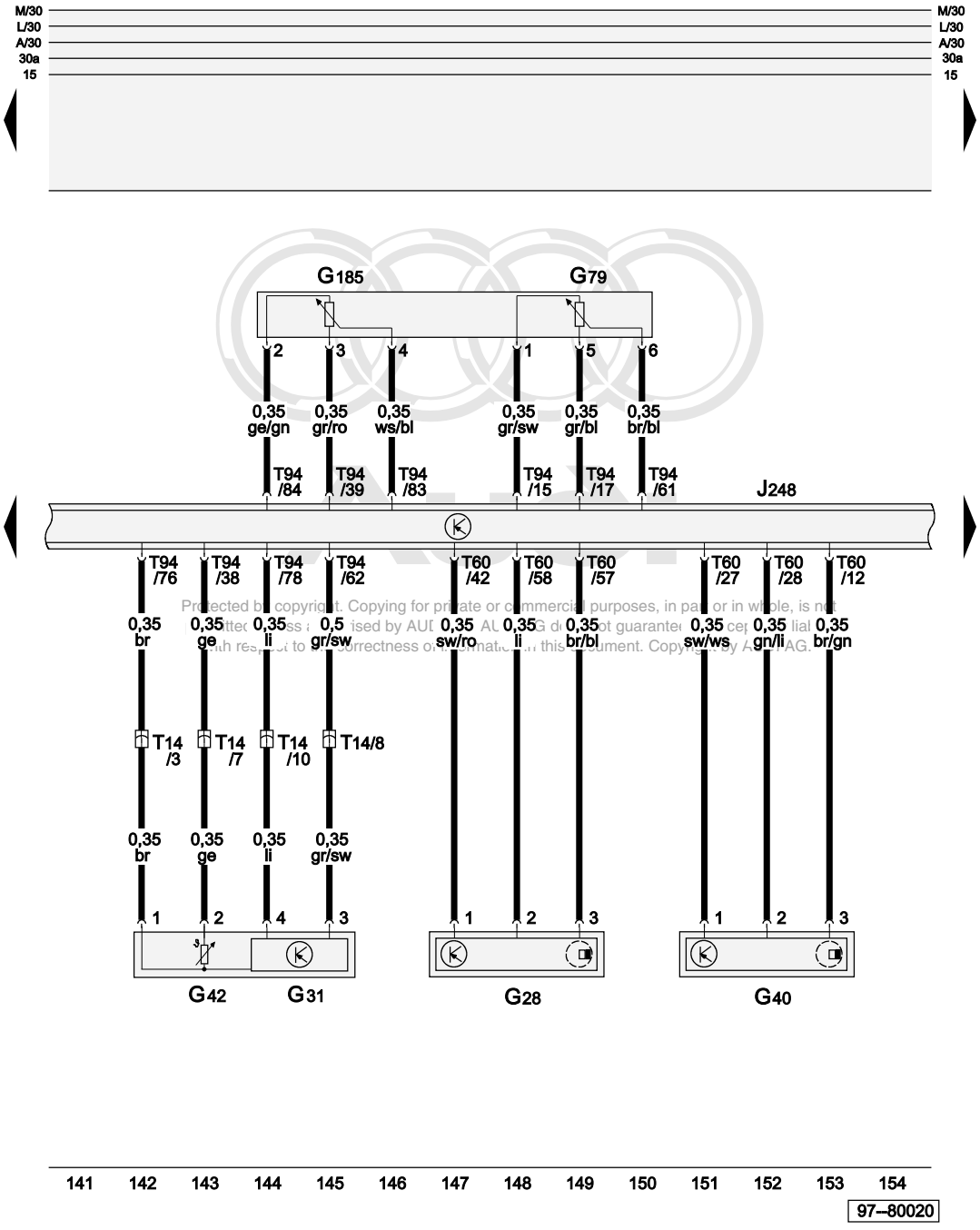


Air mass meter, exhaust gas recirculation valve, charge pressure control solenoid valve

G70	Air mass meter
J248	Diesel direct injection system control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N213	Exhaust gas recirculation valve 2
SB10	Fuse 10 on fuse holder B
SB42	Fuse 42 on fuse holder B
T6f	6-pin connector, black, on valve block
T14a	14-pin connector, black, near relay carrier electronics box
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D114	Connection 12, in engine compartment wiring harness

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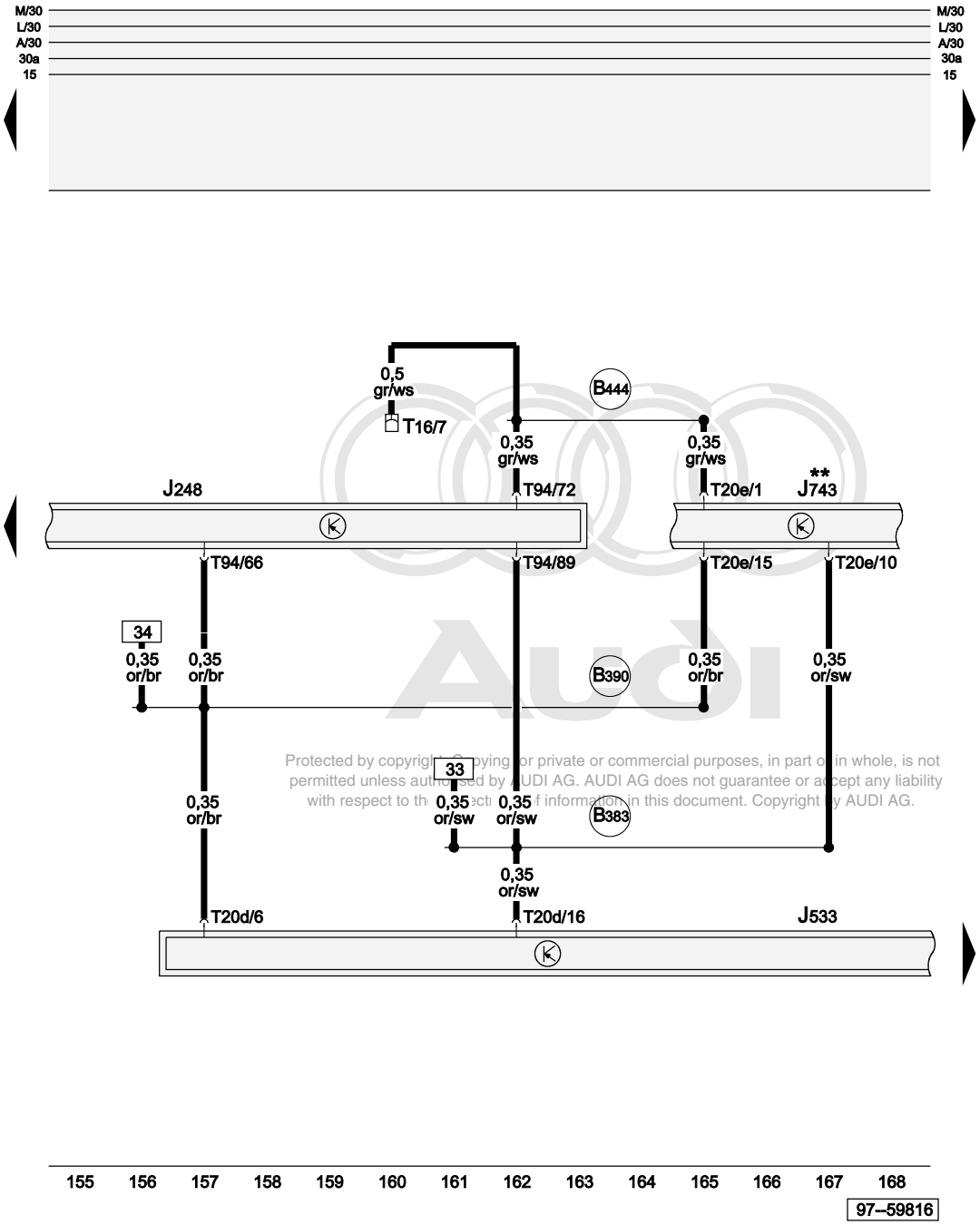


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Charge air pressure sender, engine speed sender, Hall sender

G28	Engine speed sender
G31	Charge air pressure sender
G40	Hall sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender -2-
J248	Diesel direct injection system control unit
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)

ws	=	white
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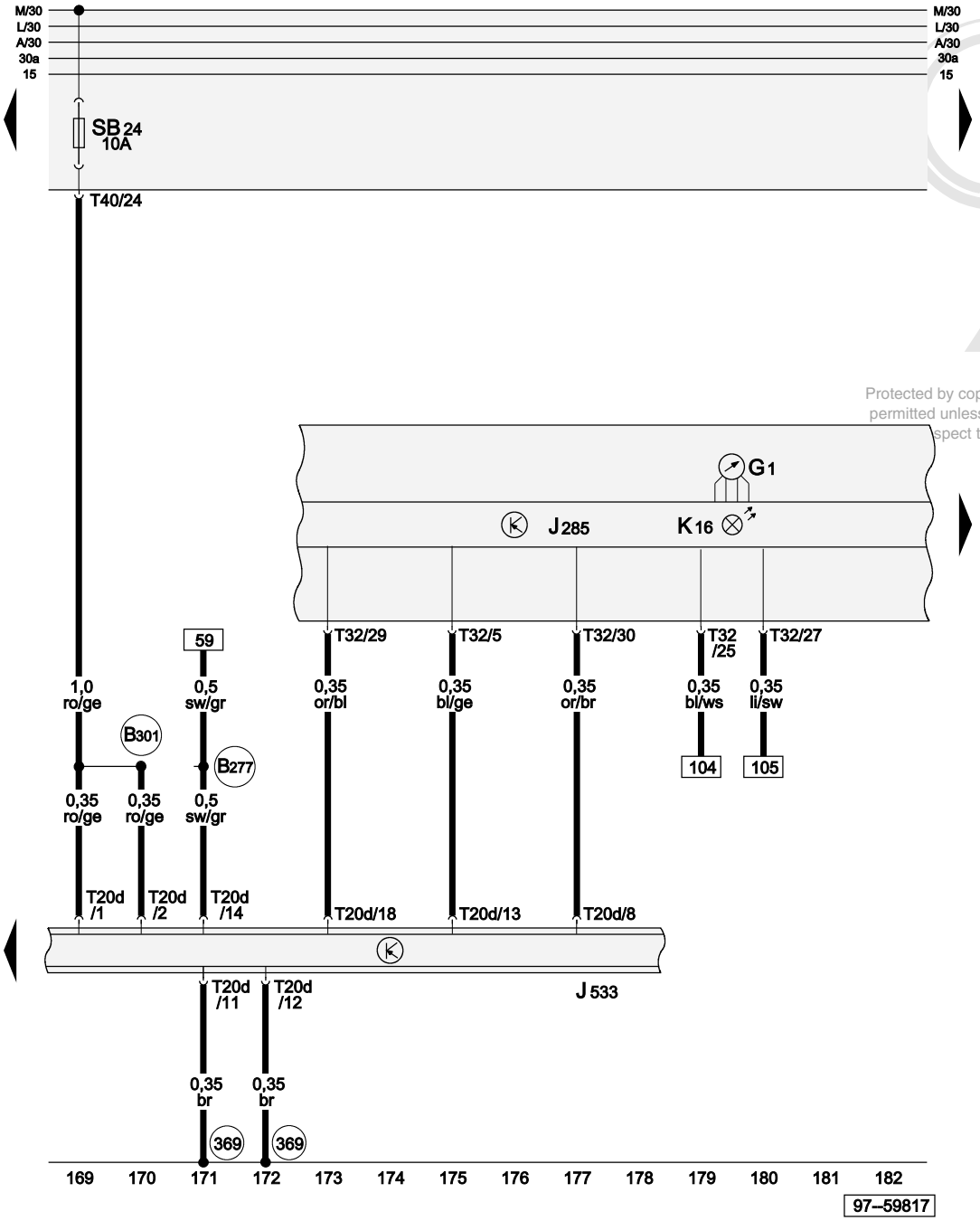


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Drive train CAN bus, K-diagnosis wiring

J248	Diesel direct injection system control unit
J533	Data bus diagnostic interface
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
**	for models with direct shift gearbox (02E) only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

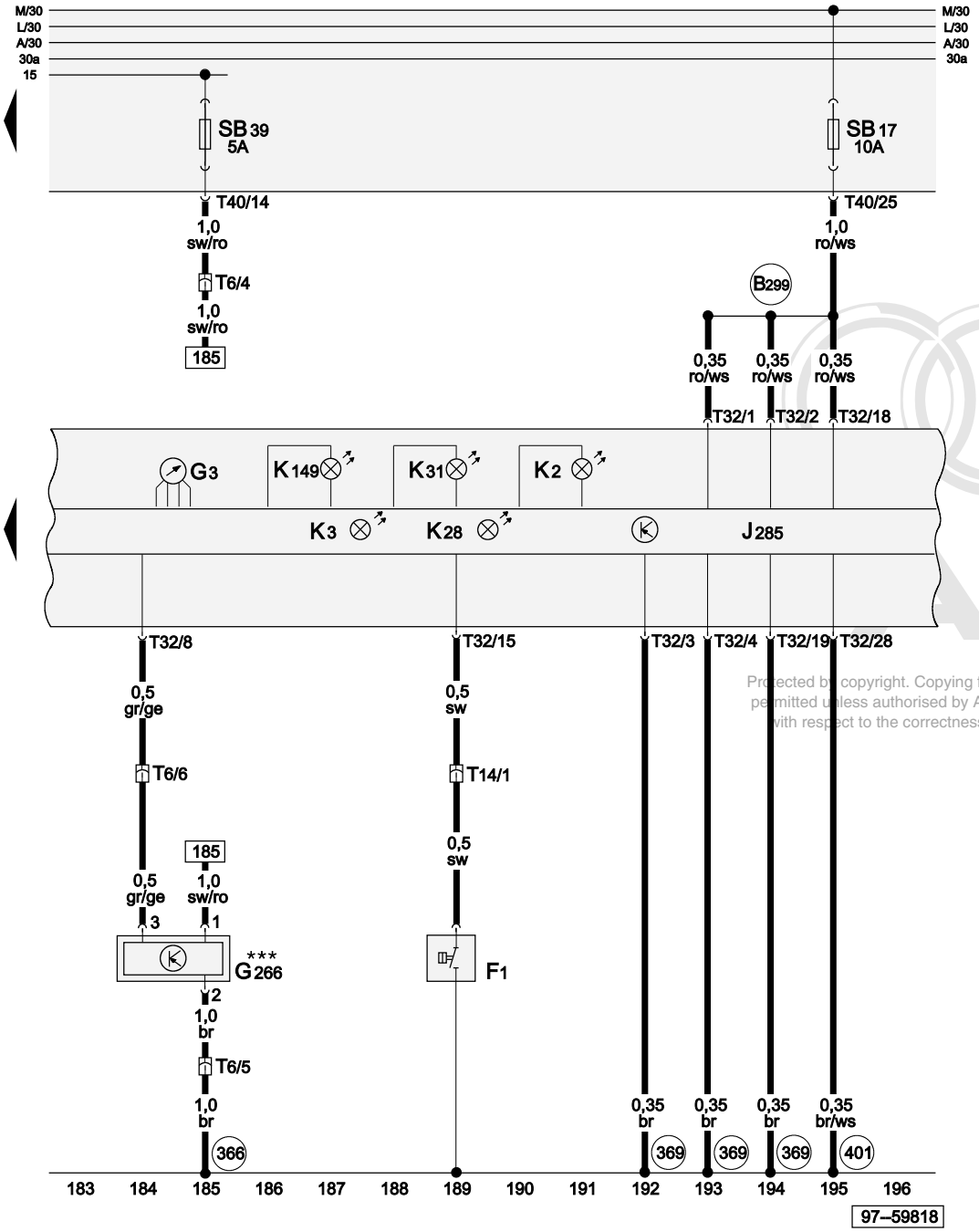


Fuel gauge, reserve fuel warning lamp

G1	Fuel gauge
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K16	Reserve fuel warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

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or	=	orange
rs	=	pink



Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
***	for models with extended servicing intervals (ESI) only

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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gr	=	grey
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2,0 l - Diesel engine (100 kW - unit injectors - 4 cylinder), engine code AZV

from model year 2005

2,0 l - Diesel engine (103 kW - unit injectors - 4 cylinder), engine code BKD

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

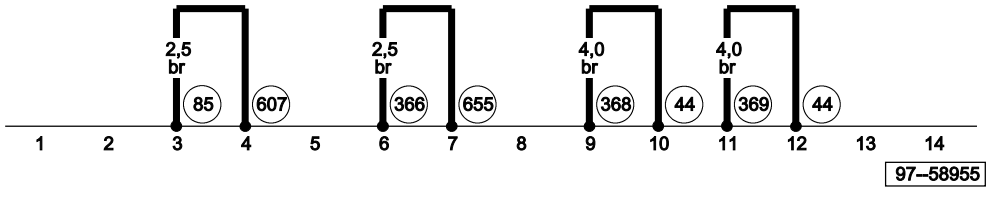
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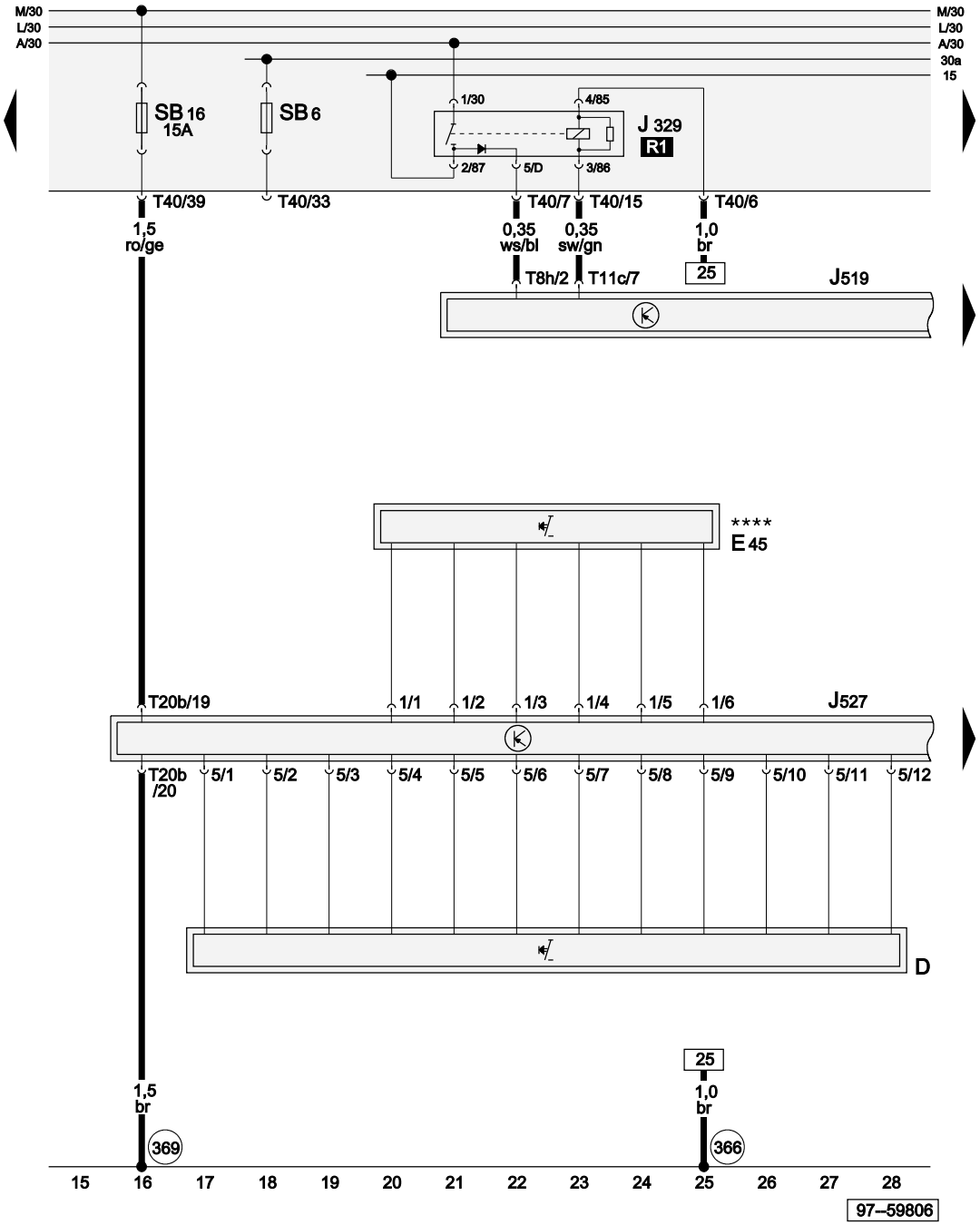
Earth points, earth connections

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection -1-, in engine compartment wiring harness
- 366 Earth connection -1-, in main wiring harness
- 368 Earth connection -3-, in main wiring harness
- 369 Earth connection -4-, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight

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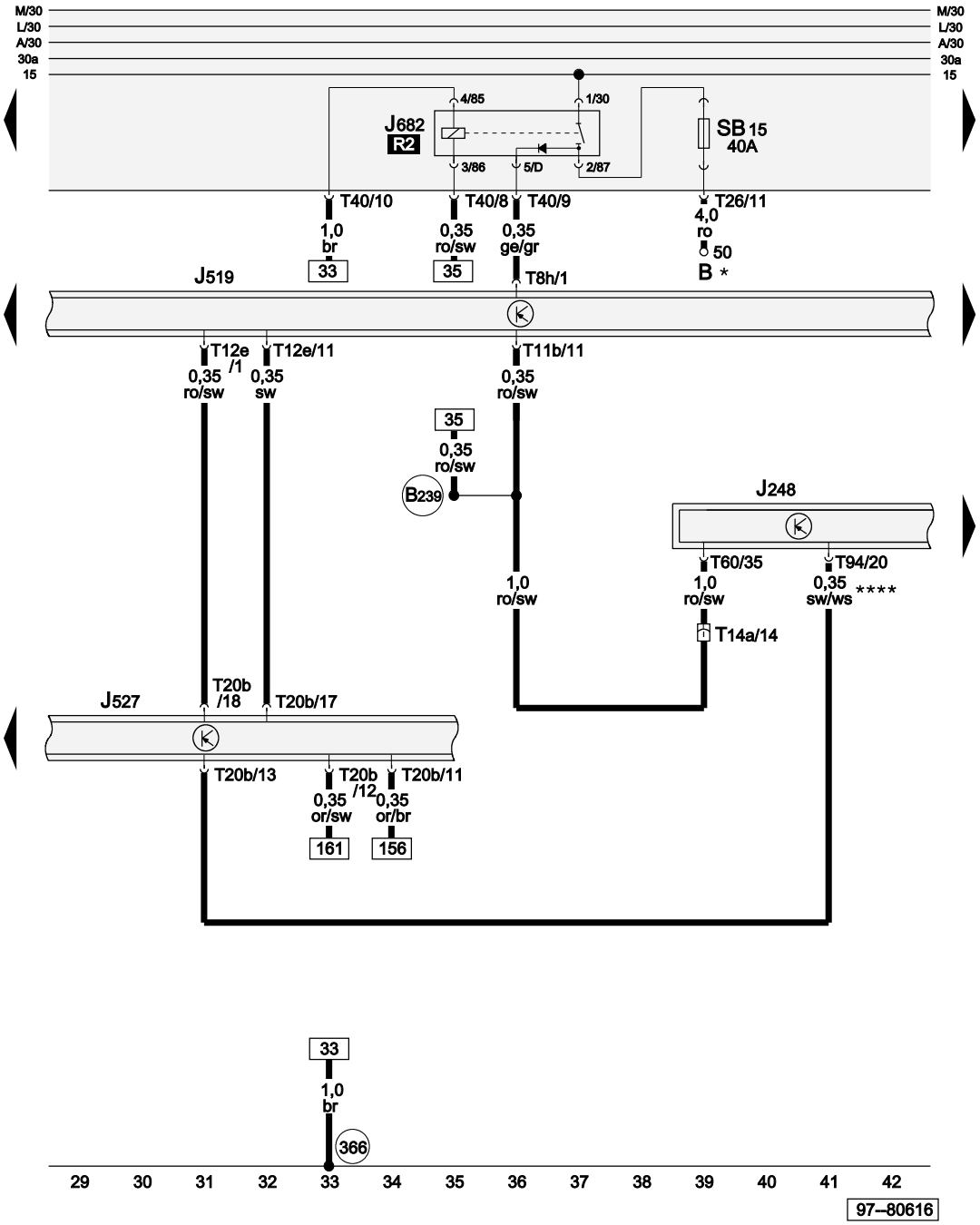


Terminal 15 voltage supply relay, cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB6	Fuse 6 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
(366)	Earth connection 1, in main wiring harness
(369)	Earth connection 4, in main wiring harness
****	For models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
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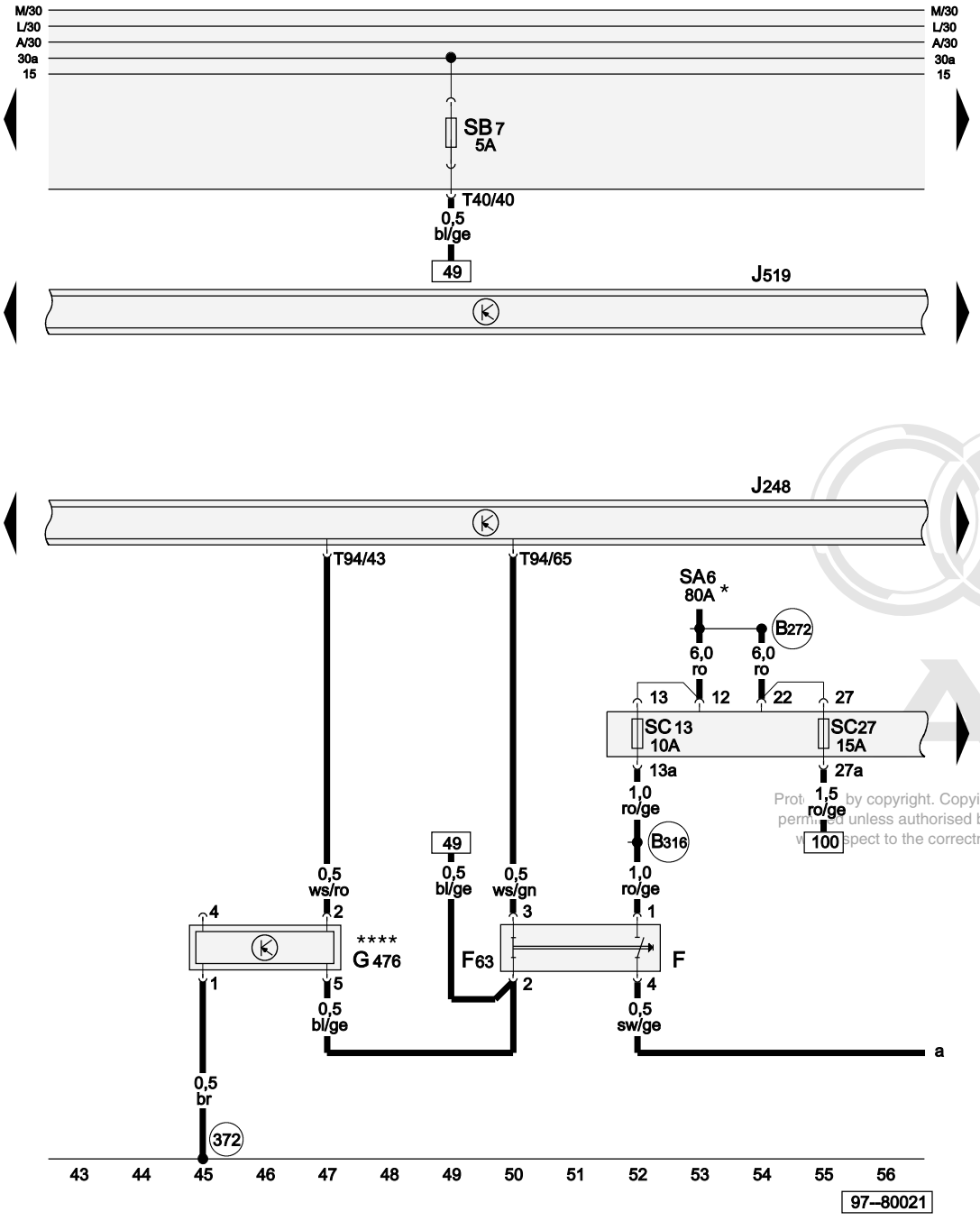


Terminal 50 voltage supply relay

B	Starter
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T14a	14-pin connector, black, near relay carrier electronics box
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
366	Earth connection 1, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	⇒ Applicable Current Flow Diagram with battery in engine compartment
****	For models with cruise control system only

ws	=	white
sw	=	black
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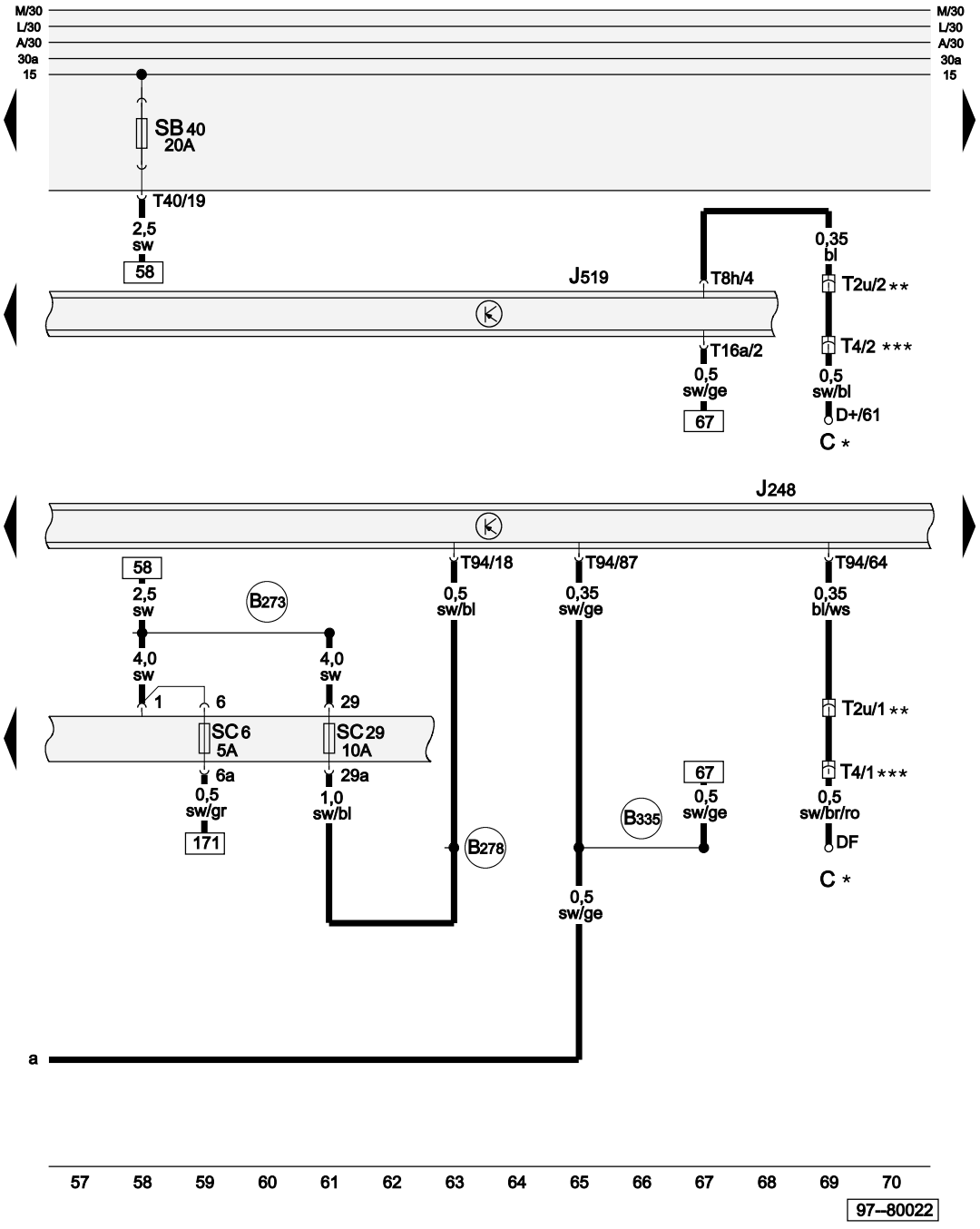


Brake light switch, brake pedal switch, clutch travel sender, fuses on fuse holder

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
SA6	Fuse 6 on fuse holder on battery
SB7	Fuse 7 on fuse holder
SC13	Fuse 13 on fuse holder
SC27	Fuse 27 on fuse holder
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
B272	Positive connection (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
*	⇒ Applicable Current Flow Diagram with battery in engine compartment
****	For models with manual gearbox only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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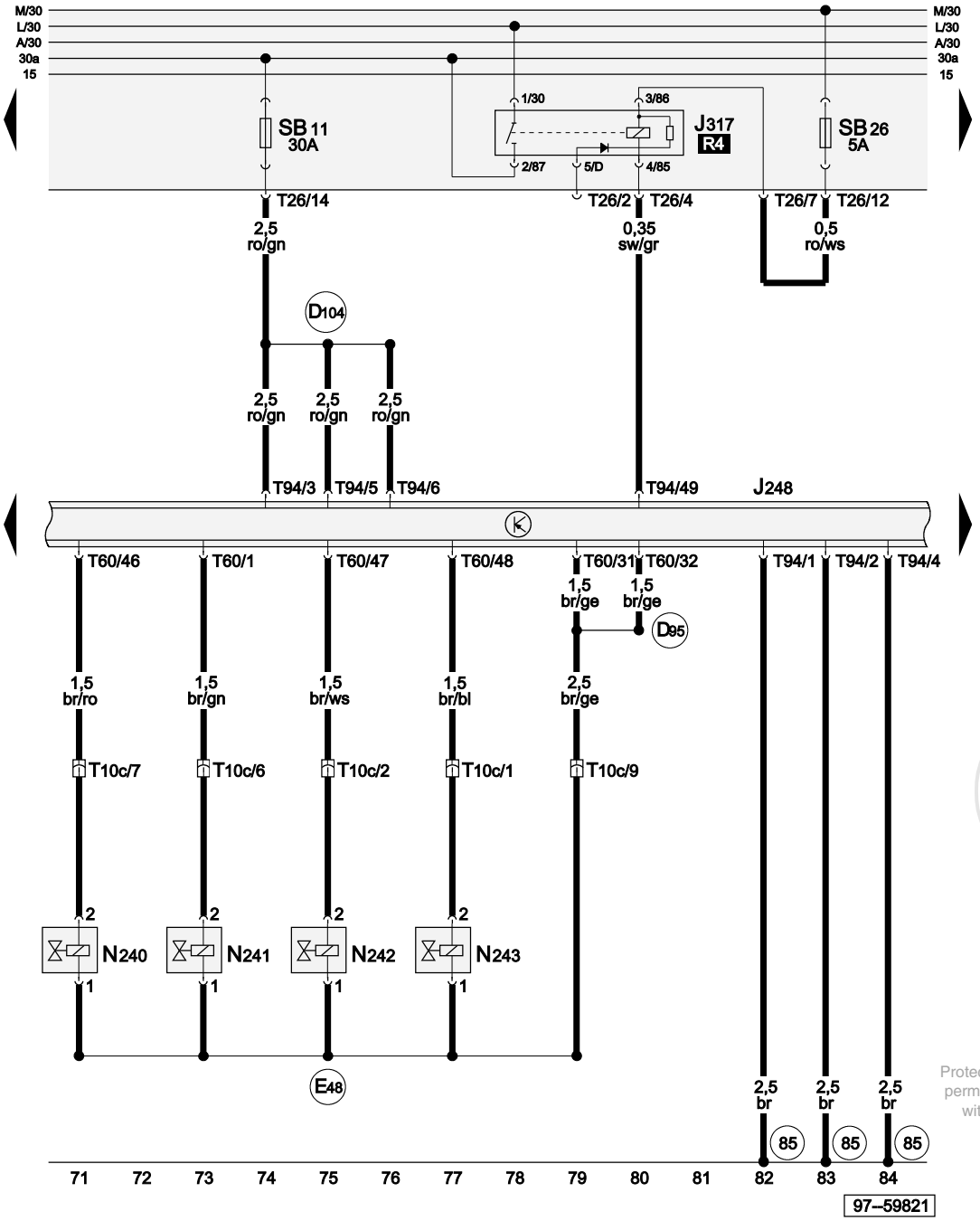


Fuses on fuse holder

C	Alternator
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
SB40	Fuse 40 on fuse holder
SC6	Fuse 6 on fuse holder
SC29	Fuse 29 on fuse holder
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ Applicable Current Flow Diagram with battery in engine compartment
**	For models without air conditioner only
***	For models with air conditioning system only

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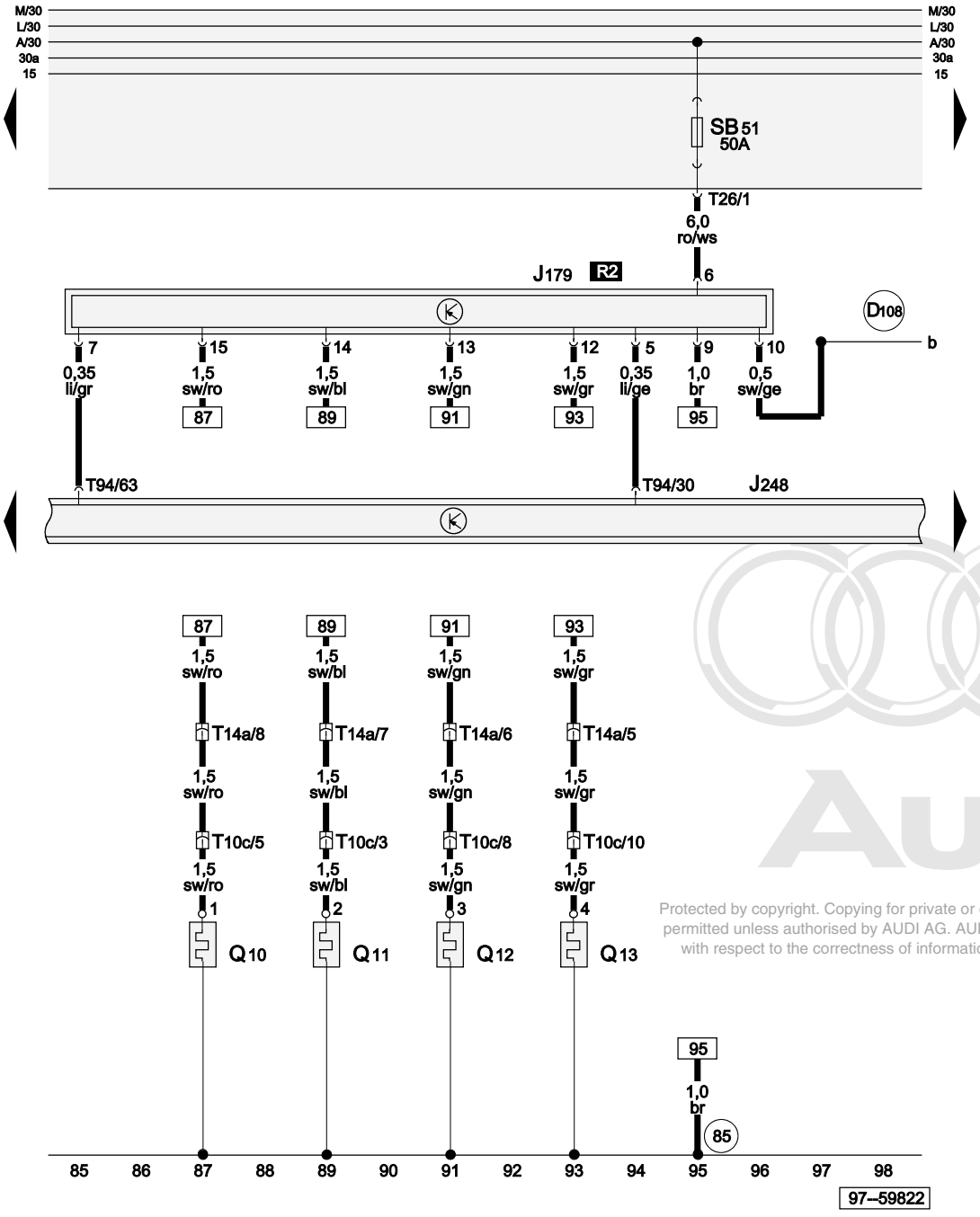


Terminal 30 voltage supply relay, unit injector valves

J248	Diesel direct injection system control unit
J317	Terminal 30 voltage supply relay
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB11	Fuse 11 on fuse holder
SB26	Fuse 26 on fuse holder
T10c	10-pin connector, black, in engine compartment
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
85	Earth connection 1, in engine compartment wiring harness
D95	Connection (injectors), in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

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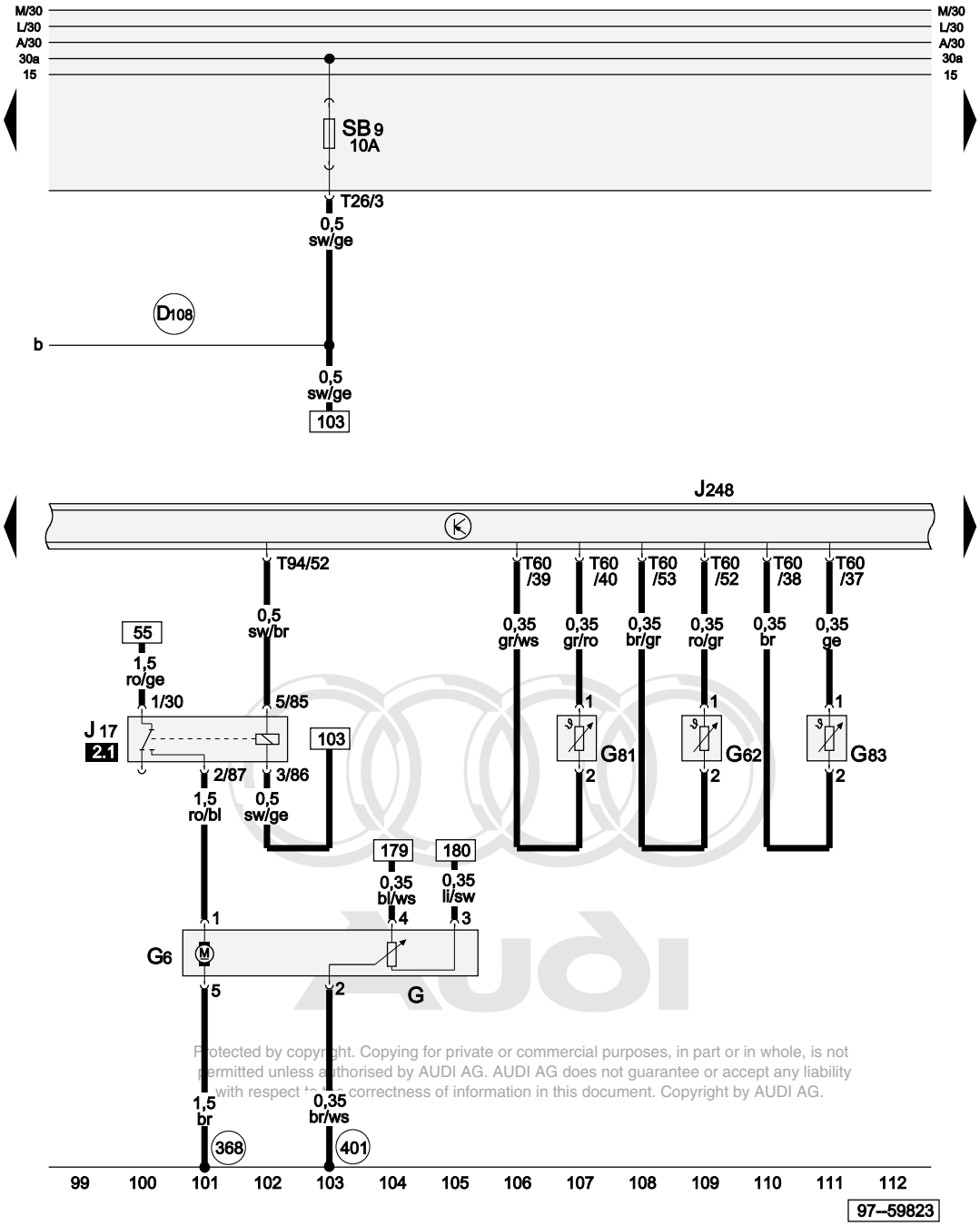


Glow plugs, automatic glow period control unit

J179	Automatic glow period control unit
J248	Diesel direct injection system control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
SB51	Fuse 51 on fuse holder
T10c	10-pin connector, black, in engine compartment
T14a	14-pin connector, black, near relay carrier electronics box
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T94	94-pin connector, black (connector B)
85	Earth connection 1, in engine compartment wiring harness
D108	Connection 6, in engine compartment wiring harness

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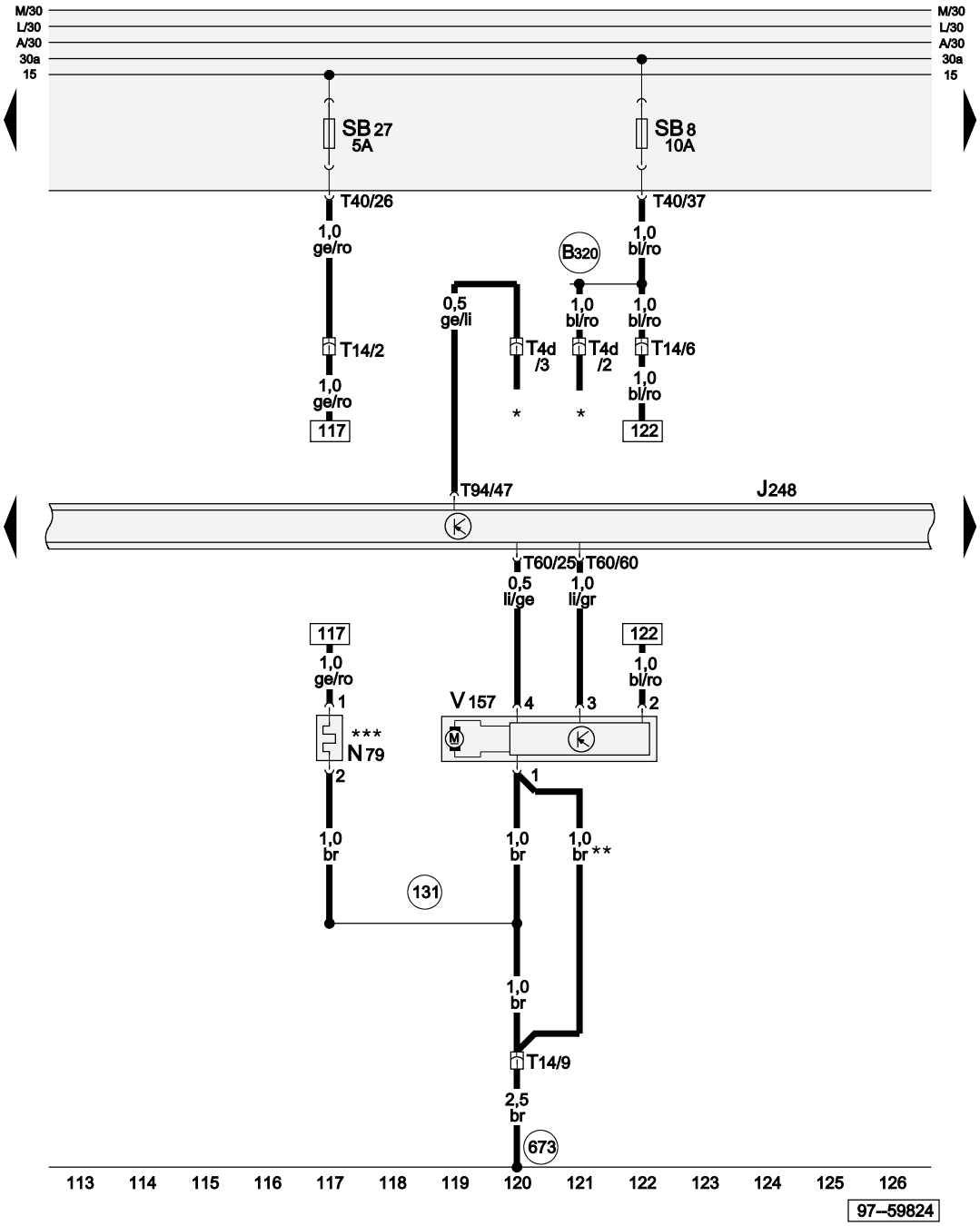


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Fuel pump, temperature sender

G	Fuel gauge sender
G6	Fuel system pressurisation pump
G62	Coolant temperature sender
G81	Fuel temperature sender
G83	Radiator outlet coolant temperature sender
J17	Fuel pump relay
J248	Diesel direct injection system control unit
SB9	Fuse 9 on fuse holder
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
D108	Connection 6, in engine compartment wiring harness

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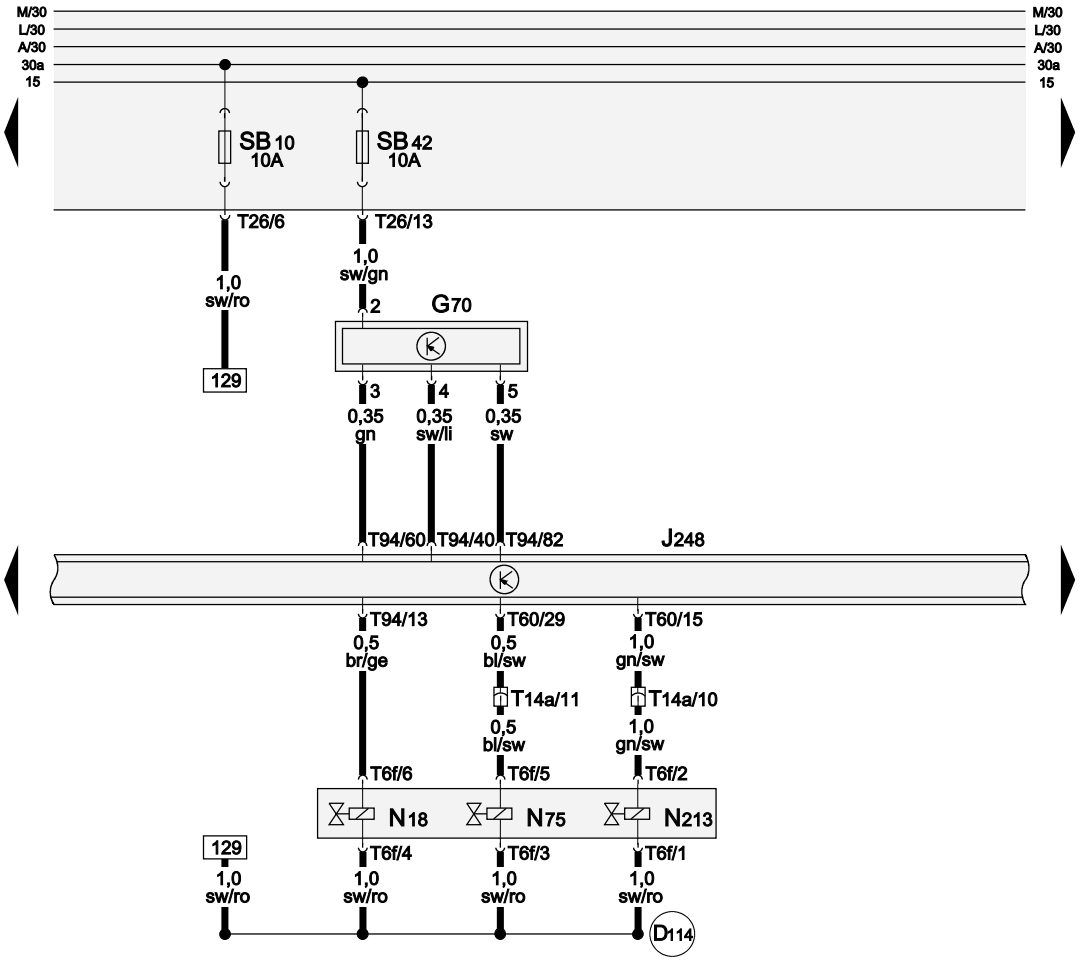


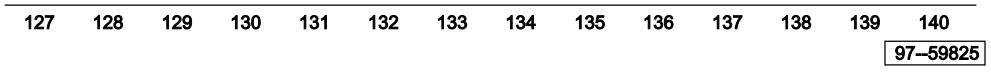
Heater element for crankcase breather, intake manifold flap motor

J248	Diesel direct injection system control unit
N79	Heater element for crankcase breather
SB8	Fuse 8 on fuse holder
SB27	Fuse 27 on fuse holder
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V157	Intake manifold flap motor
131	Earth connection 2, in engine compartment wiring harness
673	Earth point 3, on front of left longitudinal member
B320	Positive connection 6 (30a), in main wiring harness
*	See applicable Current Flow Diagram: Radiator fan
**	For models without heater element only
***	For models with heater element only

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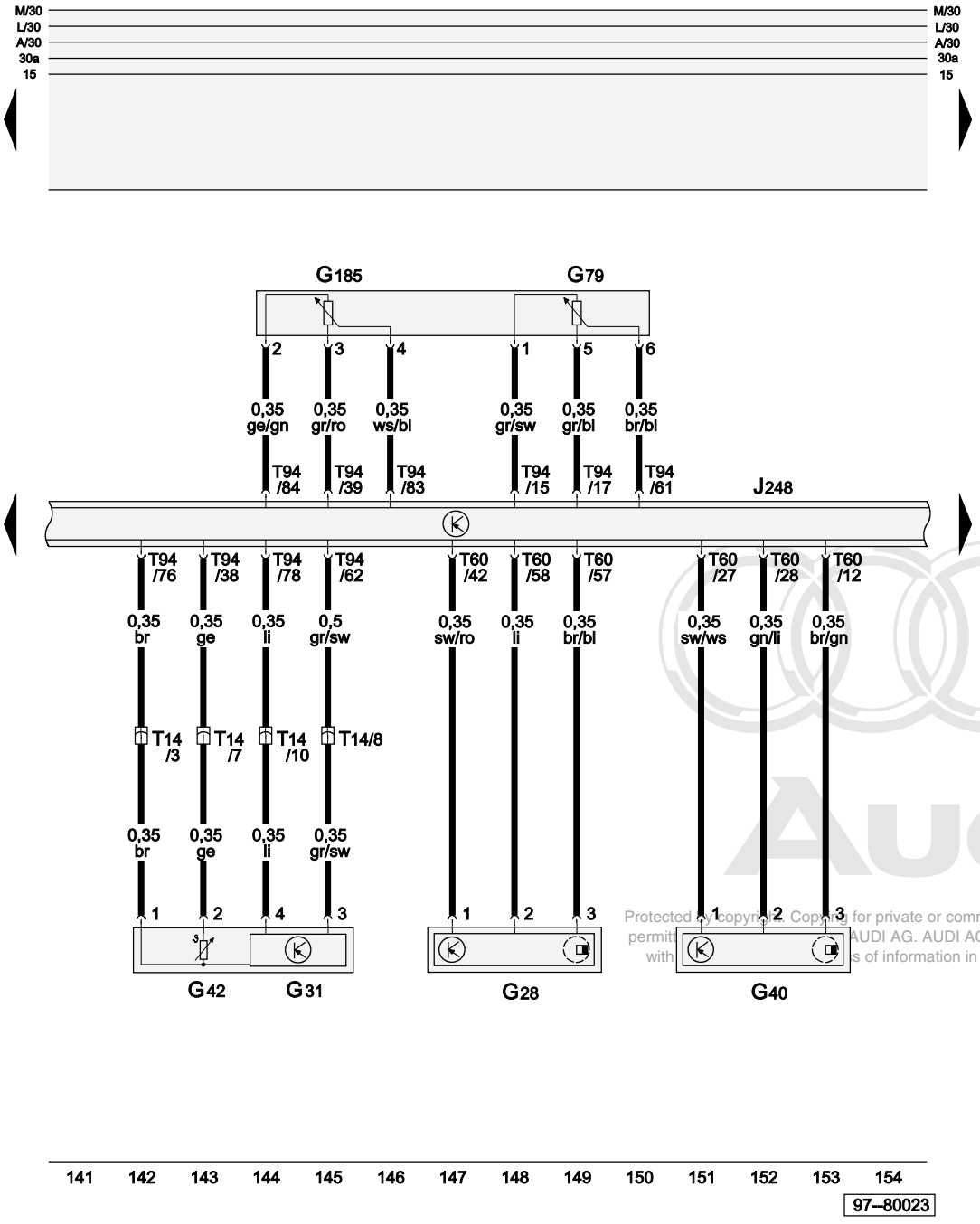


Air mass meter, exhaust gas recirculation valve, charge pressure control solenoid valve

G70	Air mass meter
J248	Diesel direct injection system control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N213	Exhaust gas recirculation valve 2
SB10	Fuse 10 on fuse holder
SB42	Fuse 42 on fuse holder
T6f	6-pin connector, black, on valve block
T14a	14-pin connector, black, near relay carrier electronics box
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D114	Connection 12, in engine compartment wiring harness

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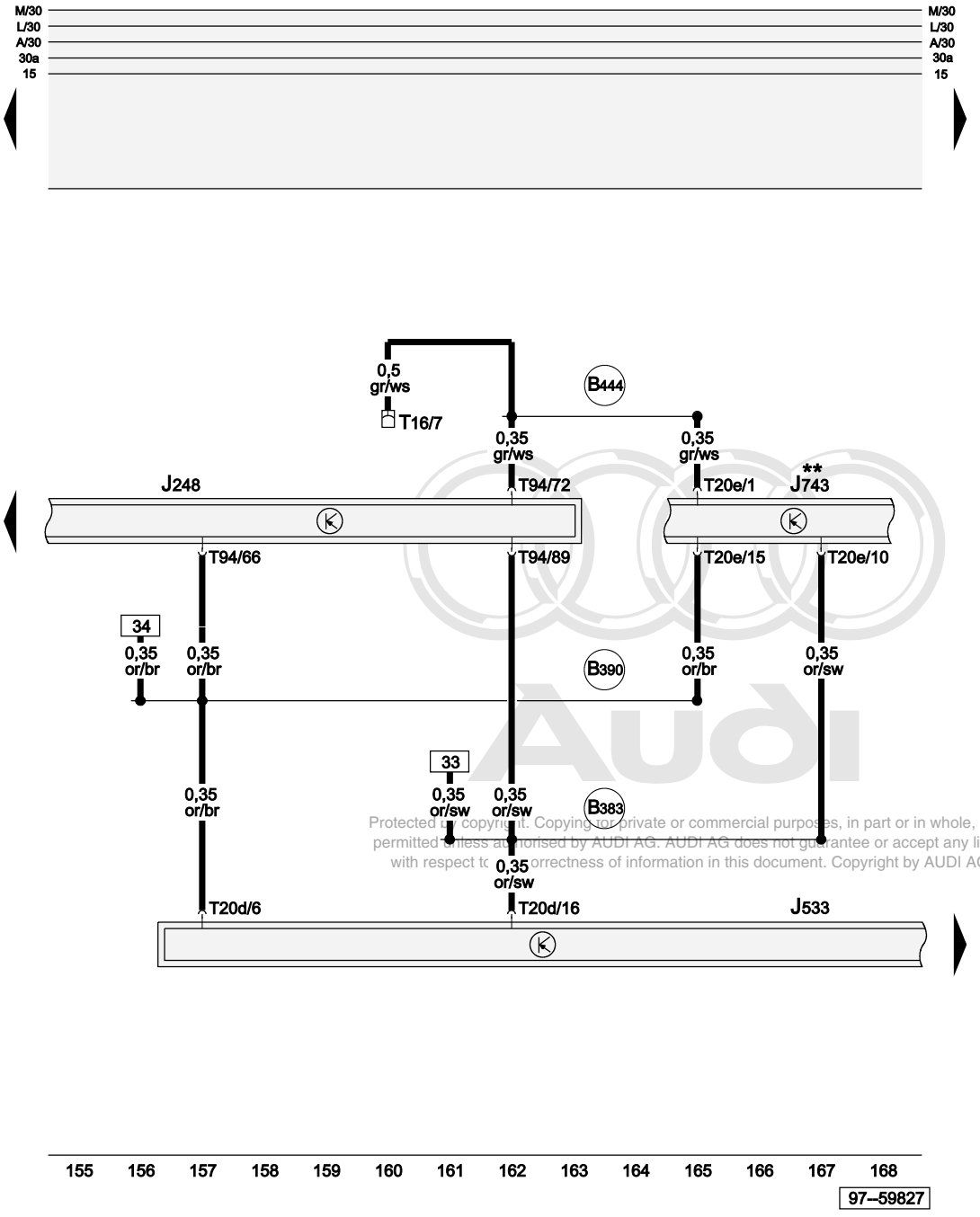


Charge air pressure sender, engine speed sender, Hall sender

G28	Engine speed sender
G31	Charge air pressure sender
G40	Hall sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender -2-
J248	Diesel direct injection system control unit
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)

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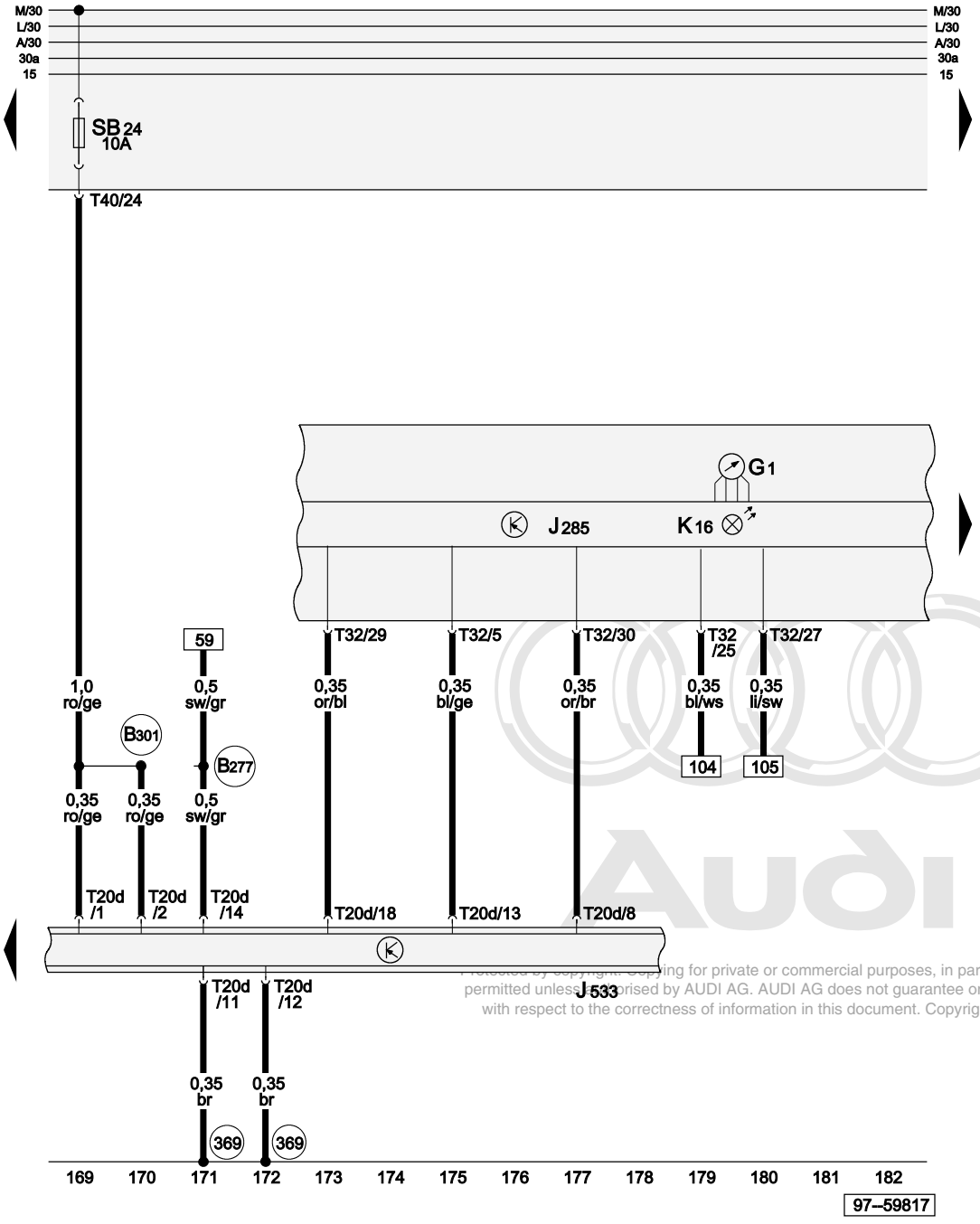


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Drive train CAN bus, K-diagnosis wiring

J248	Diesel direct injection system control unit
J533	Data bus diagnostic interface
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
**	for models with direct shift gearbox (02E) only

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sw	=	black
ro	=	red
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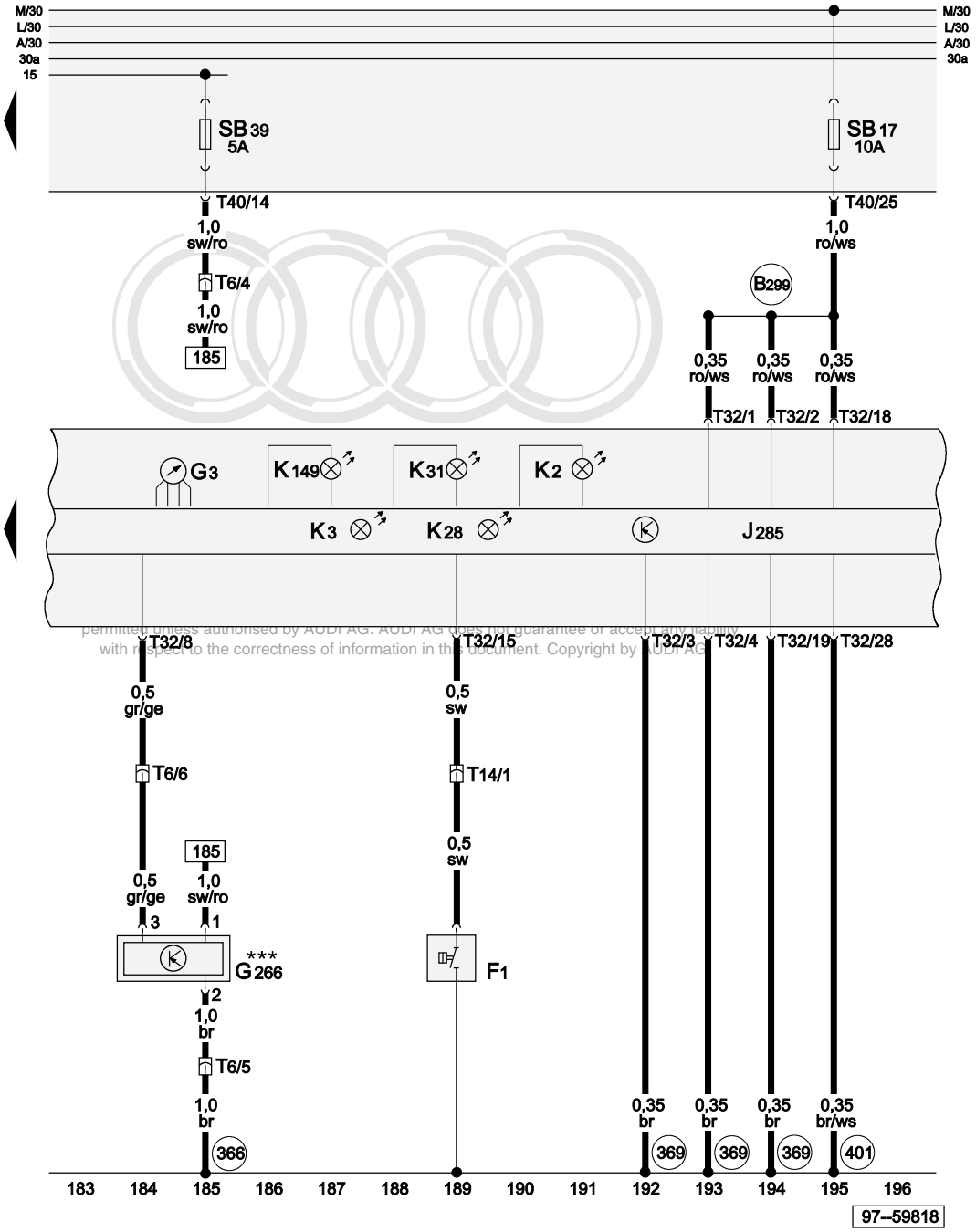


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Fuel gauge, reserve fuel warning lamp

G1	Fuel gauge
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K16	Reserve fuel warning lamp
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness



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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder
SB39	Fuse 39 on fuse holder
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
***	For models with extended servicing intervals (ESI) only

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ge	=	yellow
or	=	orange
rs	=	pink

Radiator fan control 60 W, 220 W (without air conditioning system)

⇒ **Engine codes BGU, BLP, BLF, BKC**
from model year 2005

Radiator fan control 60 W, 220 W (without air conditioning system), engine codes BKC, from model year 2005

Radiator fan control 60 W, 220 W (without air conditioning system), engine codes BLF, from model year 2005

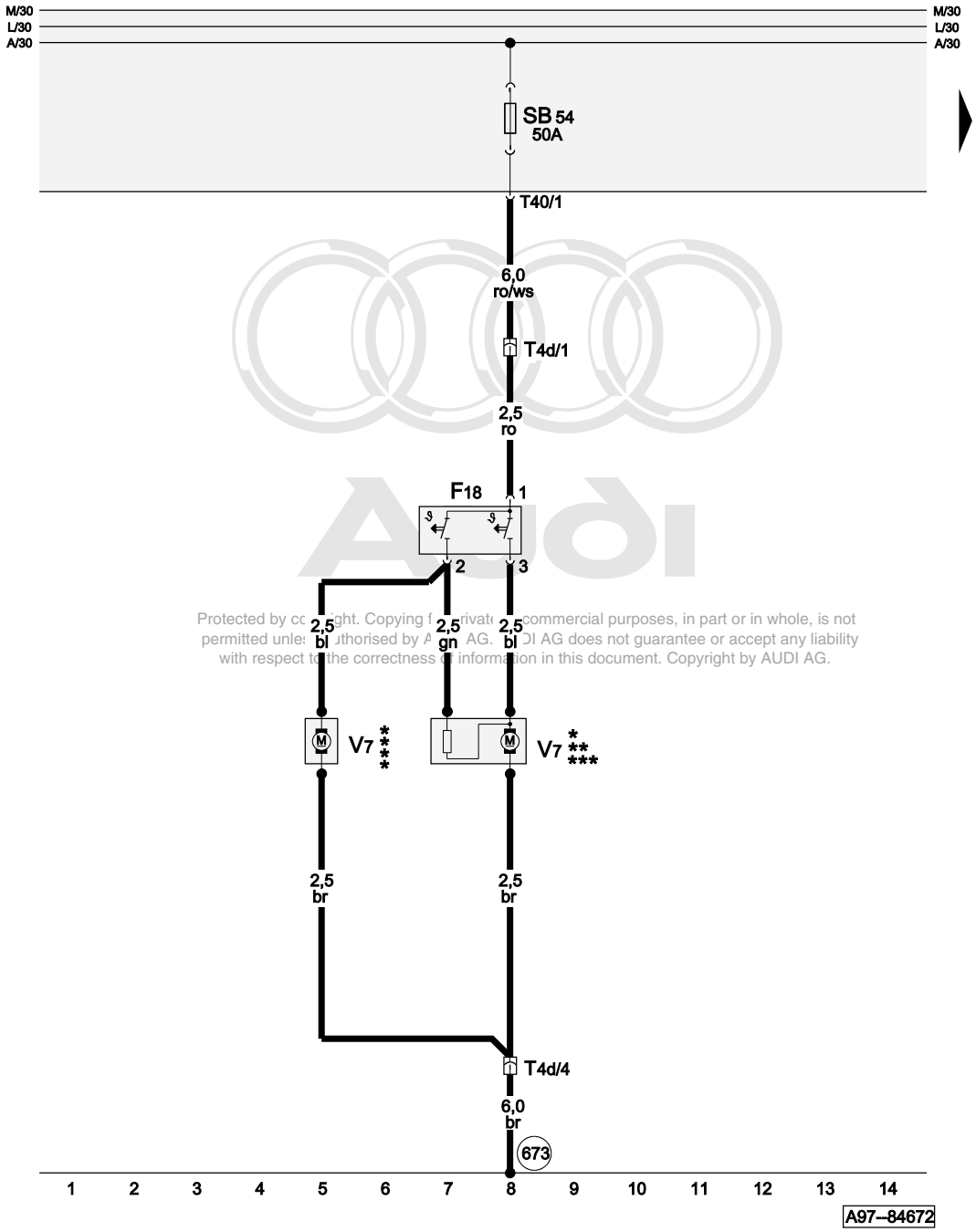
Radiator fan control 60 W, 220 W (without air conditioning system), engine codes BLP, from model year 2005

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Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

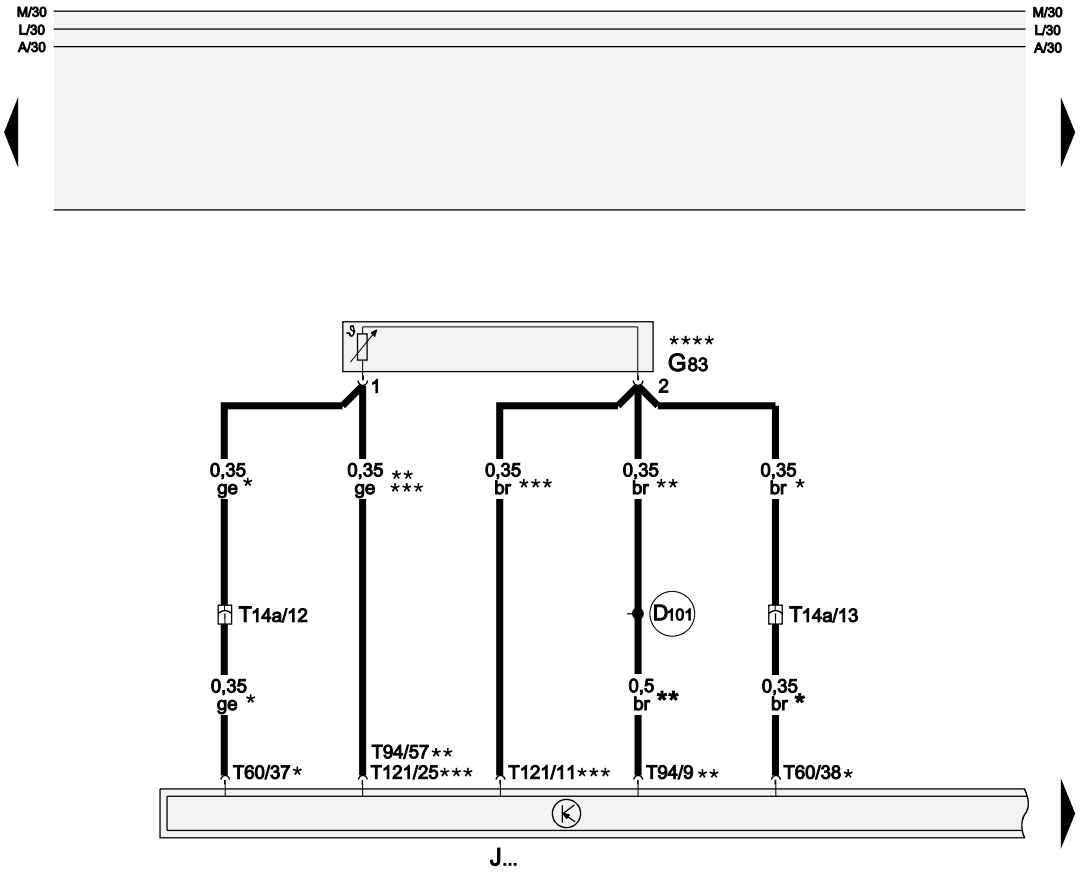


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Radiator fan

F18	Radiator fan thermal switch
SB54	Fuse 54 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V7	Radiator fan
(673)	Earth point 3, on front of left longitudinal member
*	For countries with hot climate or with cold climate with manual gearbox and trailer operation or automatic gearbox, engine codes BLP, BLF, BGU only
**	For countries with cold climate with manual gearbox, engine code BKC only
***	Not for countries with hot climate or with cold climate with manual gearbox and trailer operation or automatic gearbox, engine code BKC
****	For countries with cold climate with manual gearbox, engine codes BLP, BLF, BGU only



Radiator outlet coolant temperature sender

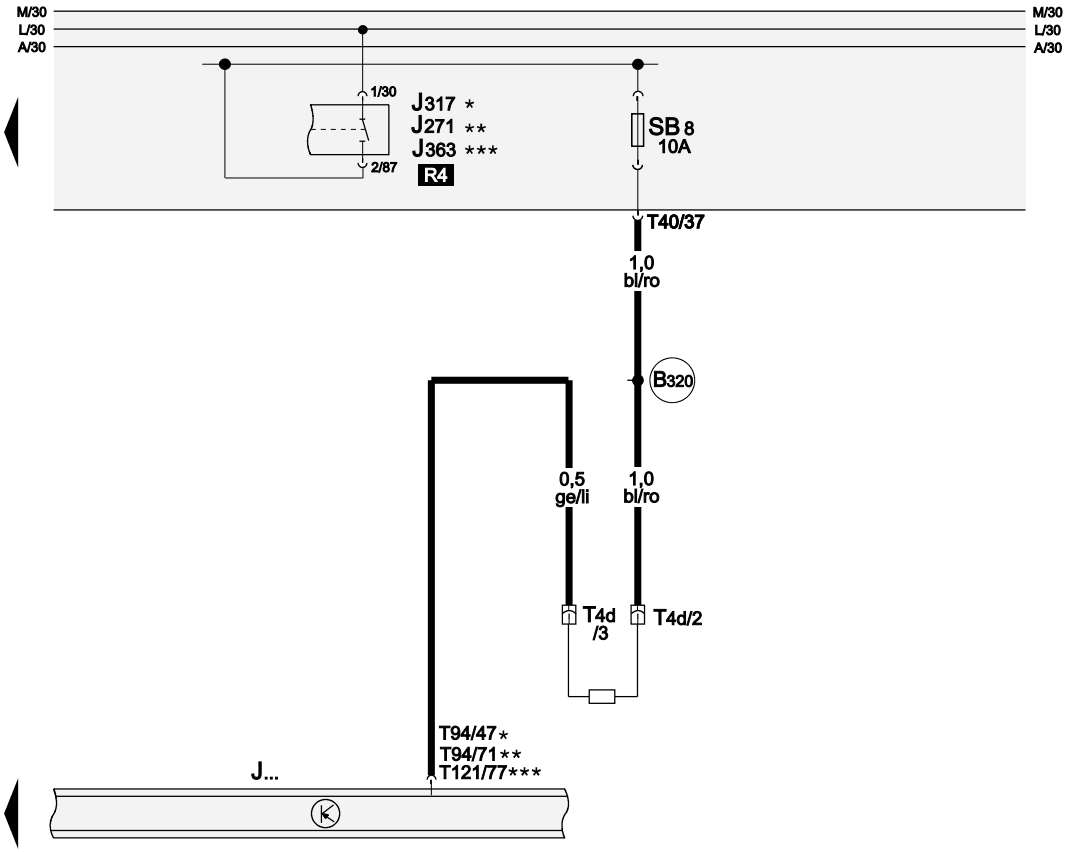
G83	Radiator outlet coolant temperature sender
J...	Engine control units
T14a	14-pin connector, black, near relay carrier electronics box
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
D101	Connection 1, in engine compartment wiring harness
*	For models with engine code BKC only
**	For models with engine codes BLP, BLF only
***	For models with engine codes BGU only
****	For models with radiator outlet coolant temperature sender only

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Terminal resistor

J...	Engine control units
J271	Motronic current supply relay
J317	Terminal 30 voltage supply relay
J363	Current supply relay for Simos control unit
SB8	Fuse 8 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B320	Positive connection 6 (30a), in main wiring harness
*	For models with engine code BKC only
**	For models with engine codes BLP, BLF only
***	For models with engine codes BGU only

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Radiator fan control 340 W (with and without air conditioning system)

⇒ **Engine codes BGU, BLP, BLF, BLX, BHD, BMB, BLY, BLR, BKC, AZV, BKD**
from model year 2005

Radiator fan control 340 W (with and without air conditioning system), engine codes BLX, from model year 2005

Radiator fan control 340 W (with and without air conditioning system), engine codes BLY, from model year 2005

Radiator fan control 340 W (with and without air conditioning system), engine codes BLF, from model year 2005

Radiator fan control 340 W (with and without air conditioning system), engine codes AZV, from model year 2005

Radiator fan control 340 W (with and without air conditioning system), engine codes BLP, from model year 2005

Radiator fan control 340 W (with and without air conditioning system), engine codes BMB, from model year 2005

Radiator fan control 340 W (with and without air conditioning system), engine codes BKC, from model year 2005

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Radiator fan control 340 W (with and without air conditioning system), engine codes BGU, from model year 2005

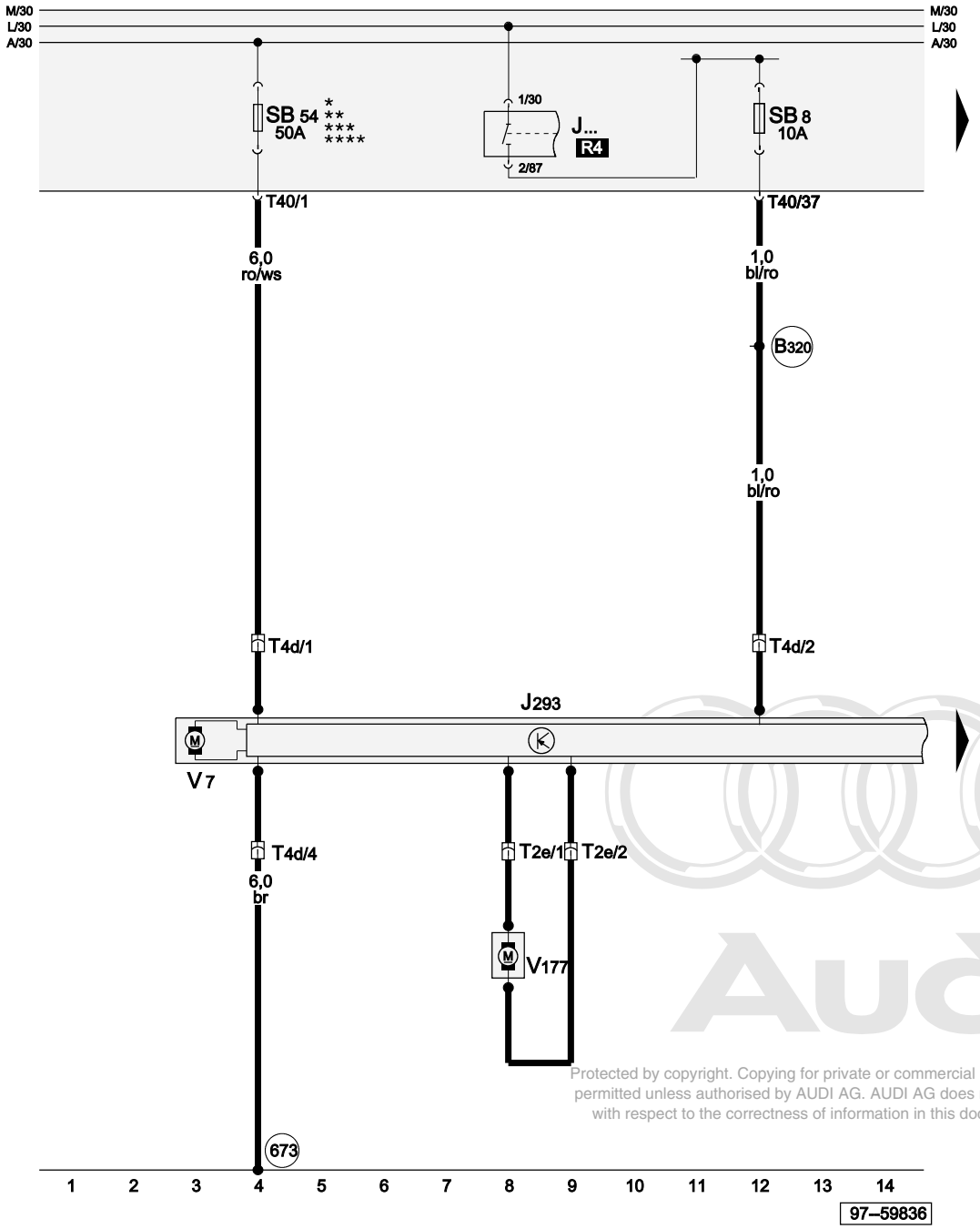
Radiator fan control 340 W (with and without air conditioning system), engine codes BHD, from model year 2005

Radiator fan control 340 W (with and without air conditioning system), engine codes BKD, from model year 2005

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

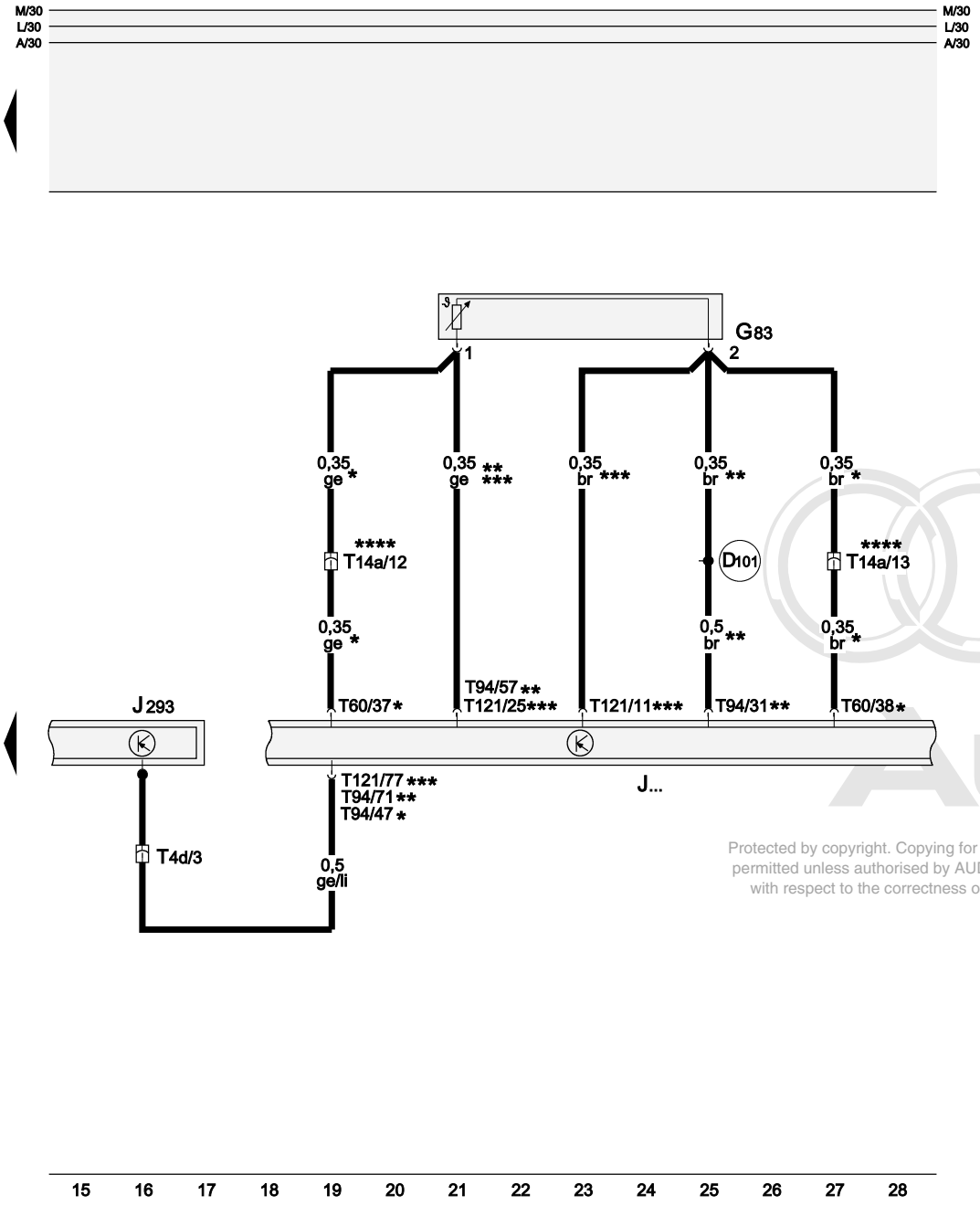


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Radiator fan, radiator fan 2

J...	Engine management relay
J293	Radiator fan control unit
SB8	Fuse 8 on fuse holder B
SB54	Fuse 54 on fuse holder B
T2e	2-pin connector, black, on radiator fan (front end)
T4d	4-pin connector, black, on radiator fan (front end)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V7	Radiator fan
V177	Radiator fan 2
673	Earth point 3, on front of left longitudinal member
B320	Positive connection 6 (30a), in main wiring harness
*	For models with air conditioning system, engine codes BGU, BLP, BLF only
**	For models without trailer operation, engine codes BLX, BHD, BMB, BLY, BLR only
***	Not for countries with cold climate without air conditioning system with manual gearbox or countries with hot climate with air conditioning system and manual gearbox or automatic gearbox, engine code BKC
****	For models without air conditioning system, engine codes AZV, BKD only

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Radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J...	Engine control units
J293	Radiator fan control unit
T4d	4-pin connector, black, on radiator fan (front end)
T14a	14-pin connector, black, near relay carrier electronics box
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
D101	Connection 1, in engine compartment wiring harness
*	For models with engine codes BKC, AZV, BKD only
**	For models with engine codes BLP, BLF, BLX, BHD, BMB, BLY, BLR only
***	For models with engine codes BGU only
****	Connectors are dropped for models with engine code BKD

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bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Radiator fan control 520 W (with and without air conditioning system)

⇒ **Engine codes BLX, BHD, BMB, BLY, BLR, BKC, AZV, BKD**
from model year 2005

Radiator fan control 520 W (with and without air conditioning system), engine codes BMB, from model year 2005

Radiator fan control 520 W (with and without air conditioning system), engine codes BLY, from model year 2005

Radiator fan control 520 W (with and without air conditioning system), engine codes BLX, from model year 2005

Radiator fan control 520 W (with and without air conditioning system), engine codes BLR, from model year 2005

Radiator fan control 520 W (with and without air conditioning system), engine codes BKD, from model year 2005

Radiator fan control 520 W (with and without air conditioning system), engine codes BHD, from model year 2005

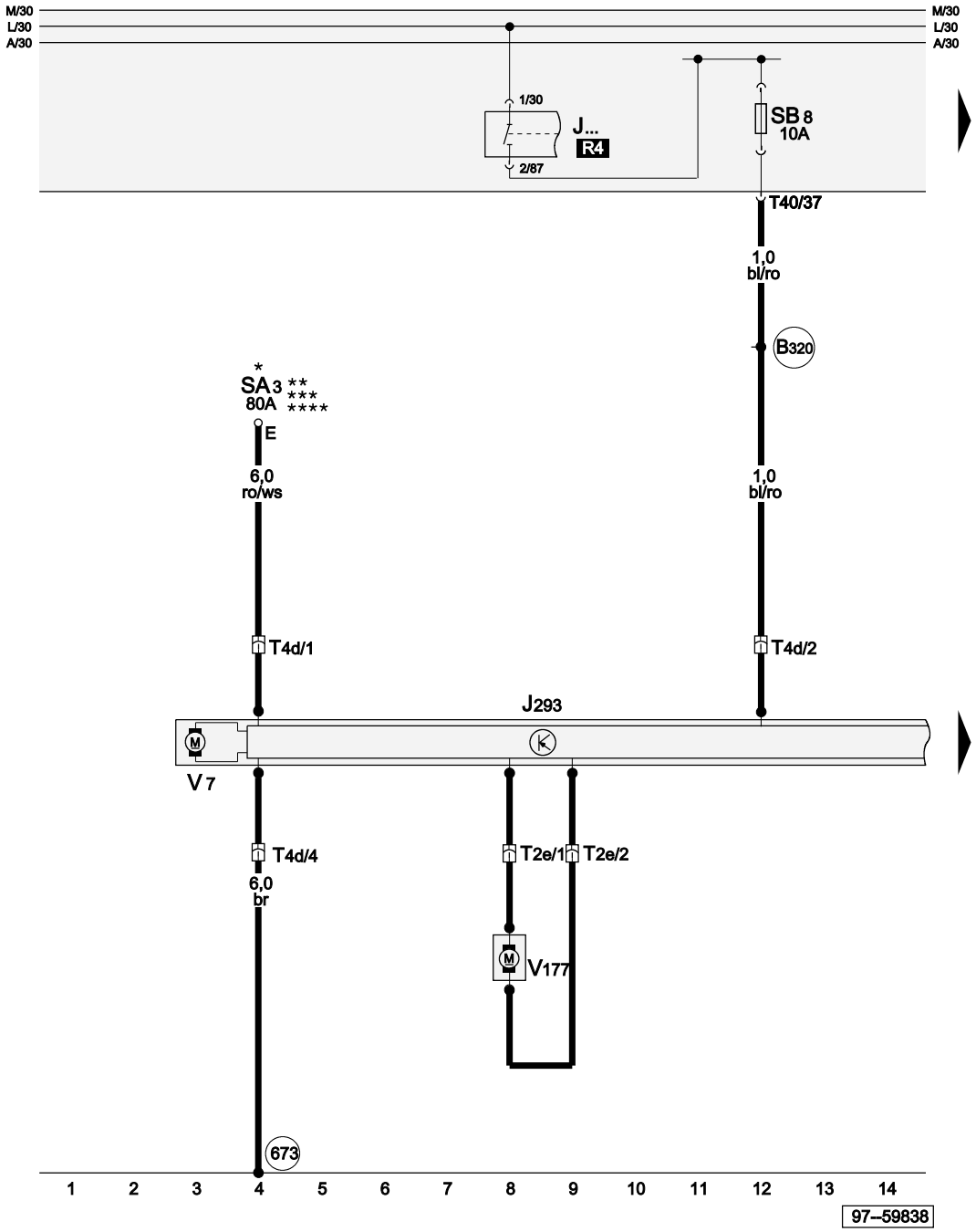
Radiator fan control 520 W (with and without air conditioning system), engine codes BKC, from model year 2005

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Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

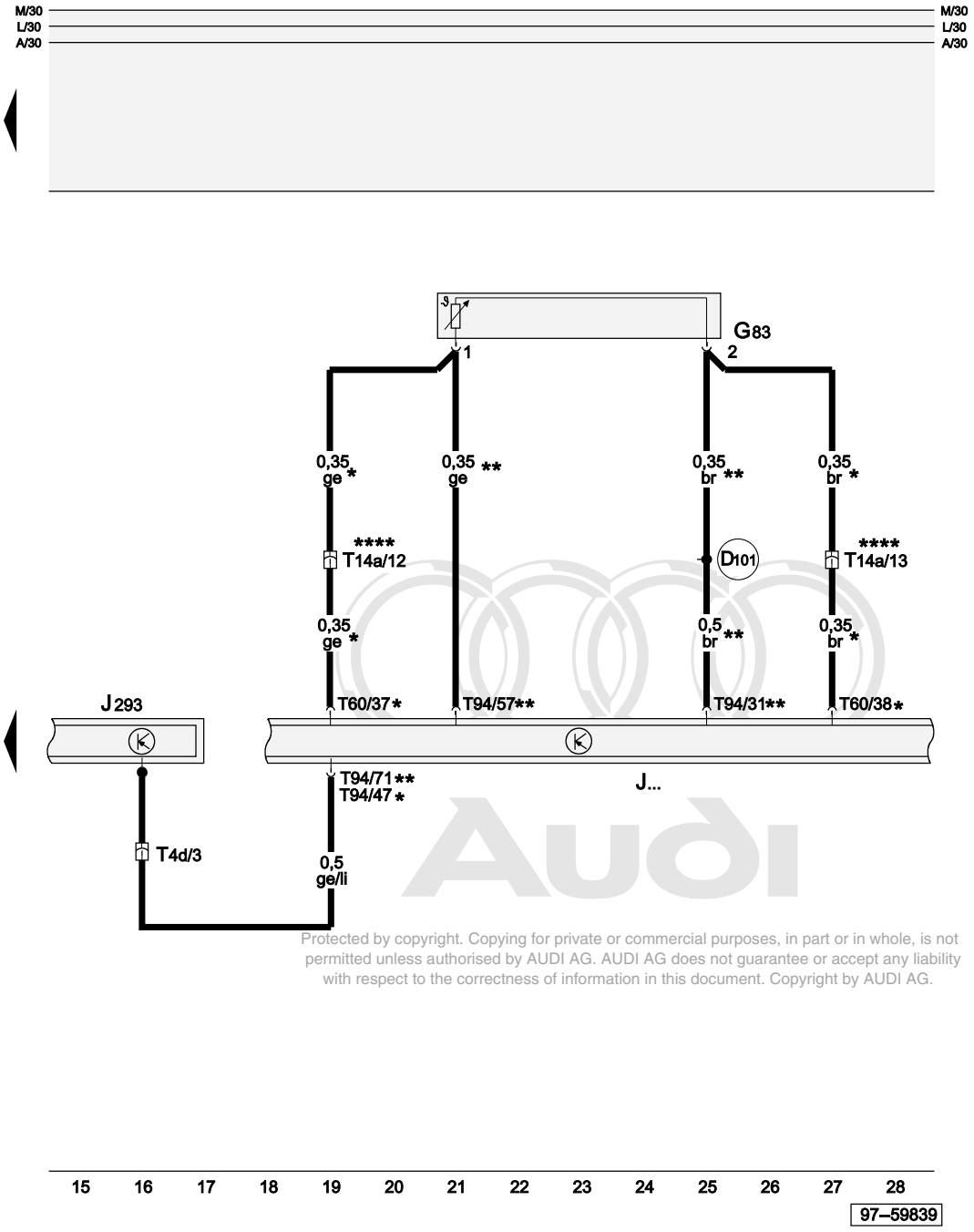


Radiator fan, radiator fan 2

J...	Engine management relay
J293	Radiator fan control unit
SA3	Fuse 3 on fuse holder A
SB8	Fuse 8 on fuse holder B
T2e	2-pin connector, black, on radiator fan (front end)
T4d	4-pin connector, black, on radiator fan (front end)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V7	Radiator fan
V177	Radiator fan 2
673	Earth point 3, on front of left longitudinal member
B320	Positive connection 6 (30a), in main wiring harness
*	⇒ Applicable Current Flow Diagram with battery in engine compartment
**	For models with air conditioning system, engine codes AZV, BKD only
***	For countries with hot climate with air conditioning system and manual gearbox or automatic gearbox, engine codes BLX, BHD, BMB, BLY, BLR, BKC only
****	For models with trailer operation, engine codes BLX, BHD, BMB, BLY, BLR only

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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J...	Engine control units
J293	Radiator fan control unit
T4d	4-pin connector, black, on radiator fan (front end)
T14a	14-pin connector, black, near relay carrier electronics box
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
(D101)	Connection 1, in engine compartment wiring harness
*	For models with engine codes BKC, AZV, BKD only
**	For models with engine codes BLX, BHD, BMB, BLY, BLR only
****	Connectors are dropped for models with engine code BKD

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or	=	orange
rs	=	pink

Radiator fan control 520 W (with and without air conditioning system)

⇒ **engine codes AXX, BPY, BDB, BMJ**

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

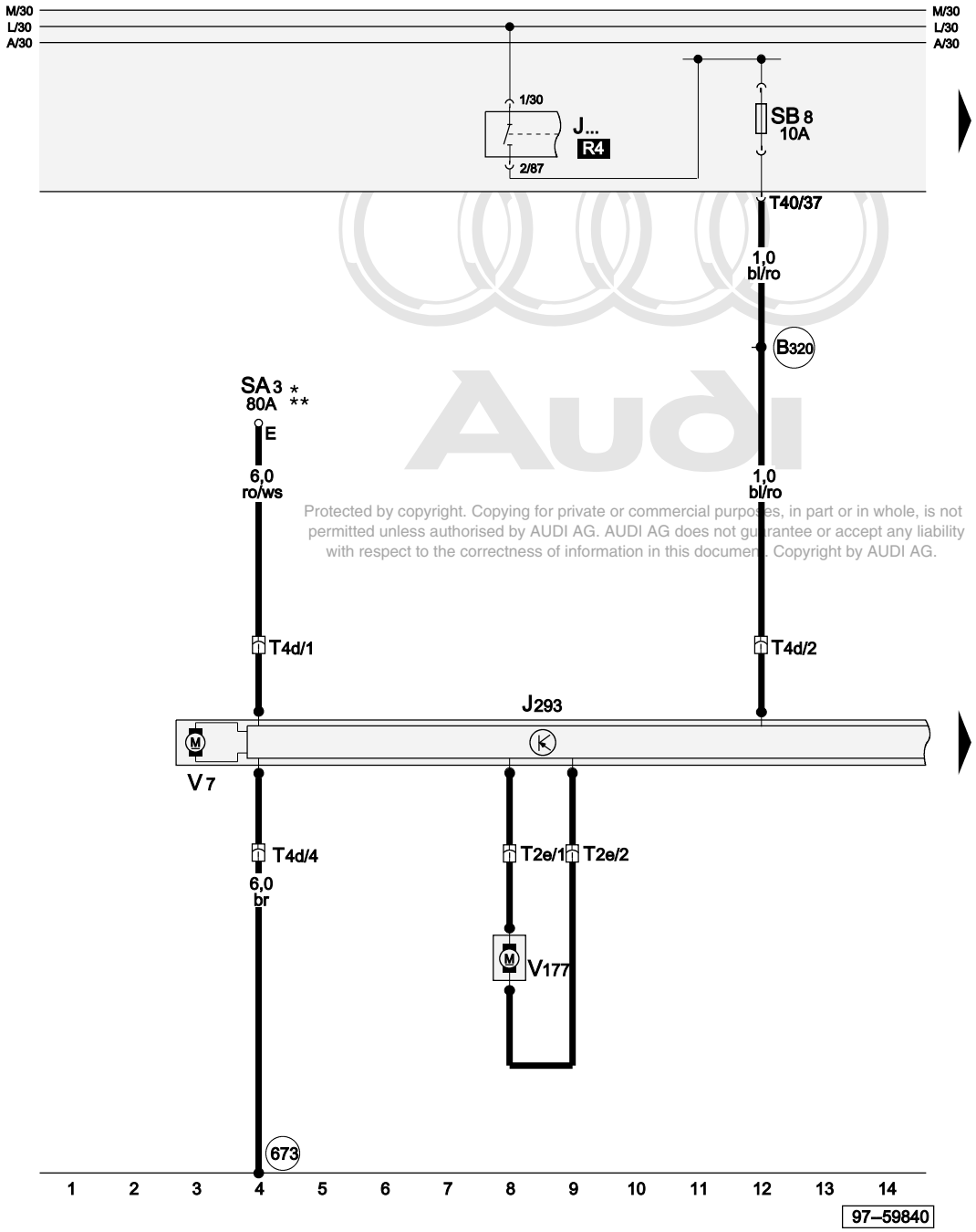
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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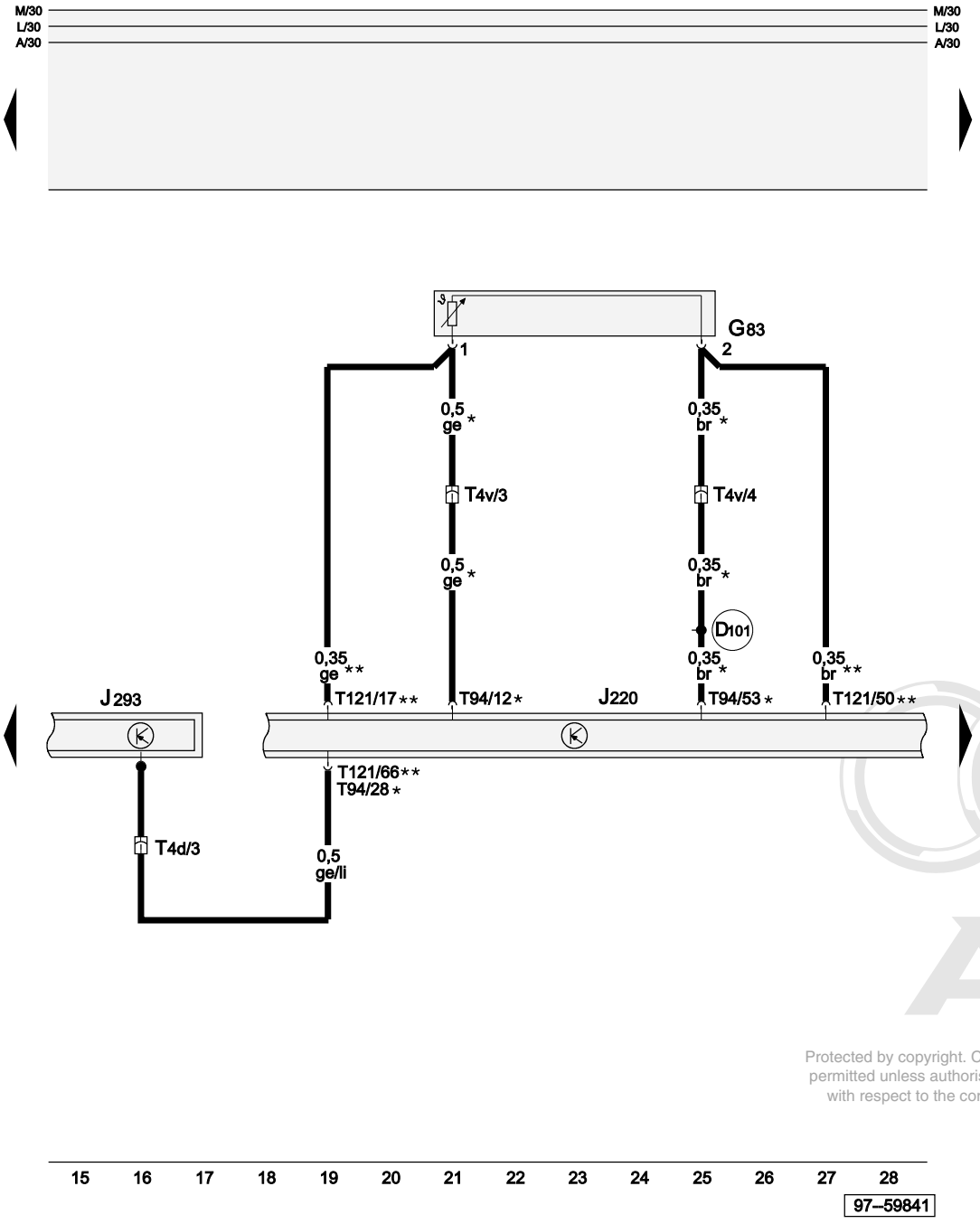


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Radiator fan, radiator fan 2

J...	Engine management relay
J293	Radiator fan control unit
SA3	Fuse 3 on fuse holder on battery
SB8	Fuse 8 on fuse holder
T2e	2-pin connector, black, on radiator fan (front end)
T4d	4-pin connector, black, on radiator fan (front end)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V7	Radiator fan
V177	Radiator fan 2
673	Earth point 3, on front of left longitudinal member
B320	Positive connection 6 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment, engine codes AXX, BPY
**	⇒ applicable Current Flow Diagram with battery in luggage compartment, engine codes BDB, BMJ

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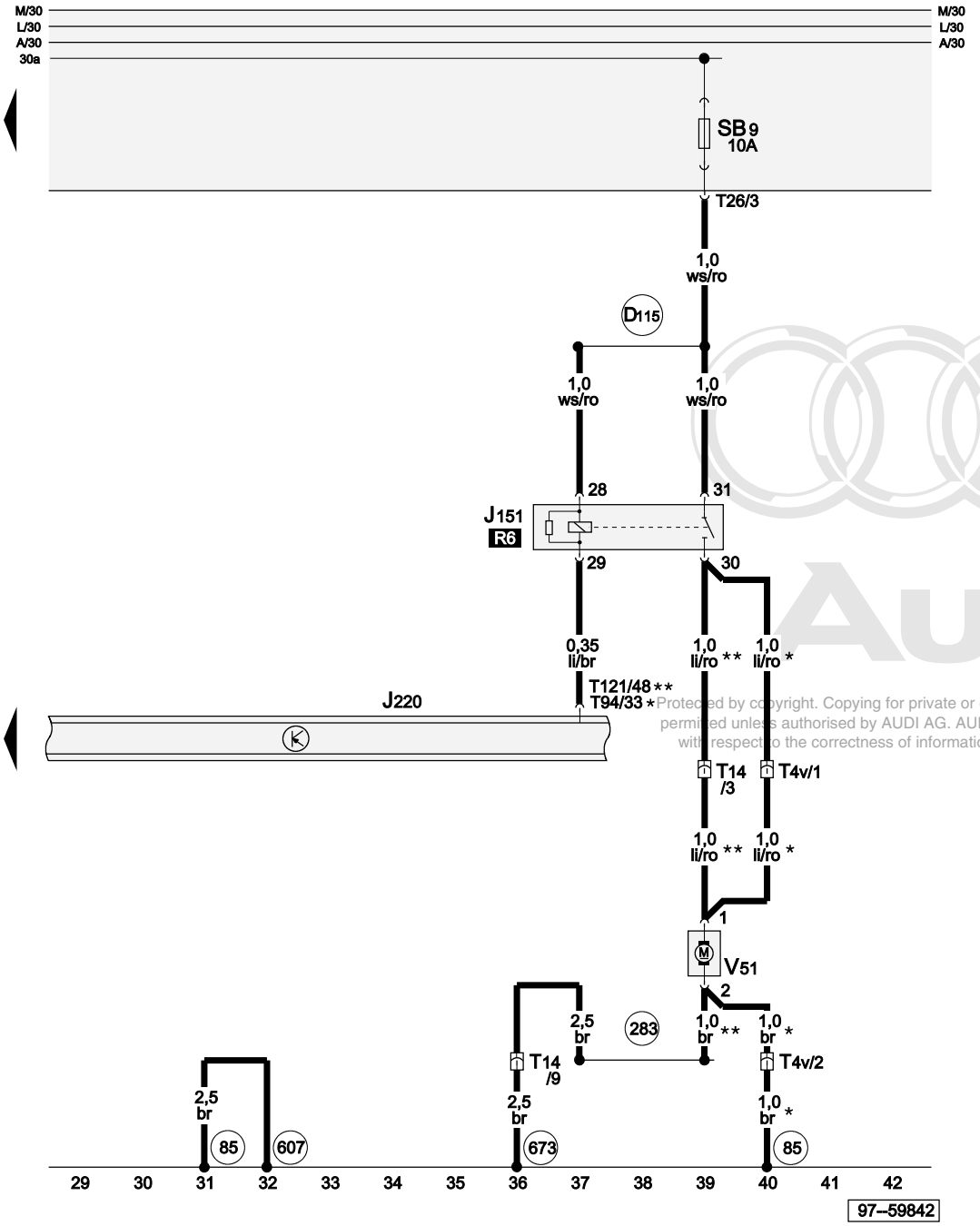


Radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J220	Motronic control unit
J293	Radiator fan control unit
T4d	4-pin connector, black, on radiator fan (front end)
T4v	4-pin connector, black, near longitudinal member, front left
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
D101	Connection 1, in engine compartment wiring harness
*	for models with engine code AXX, BPY only
**	for models with engine codes BDB, BMJ only

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Continued coolant circulation pump

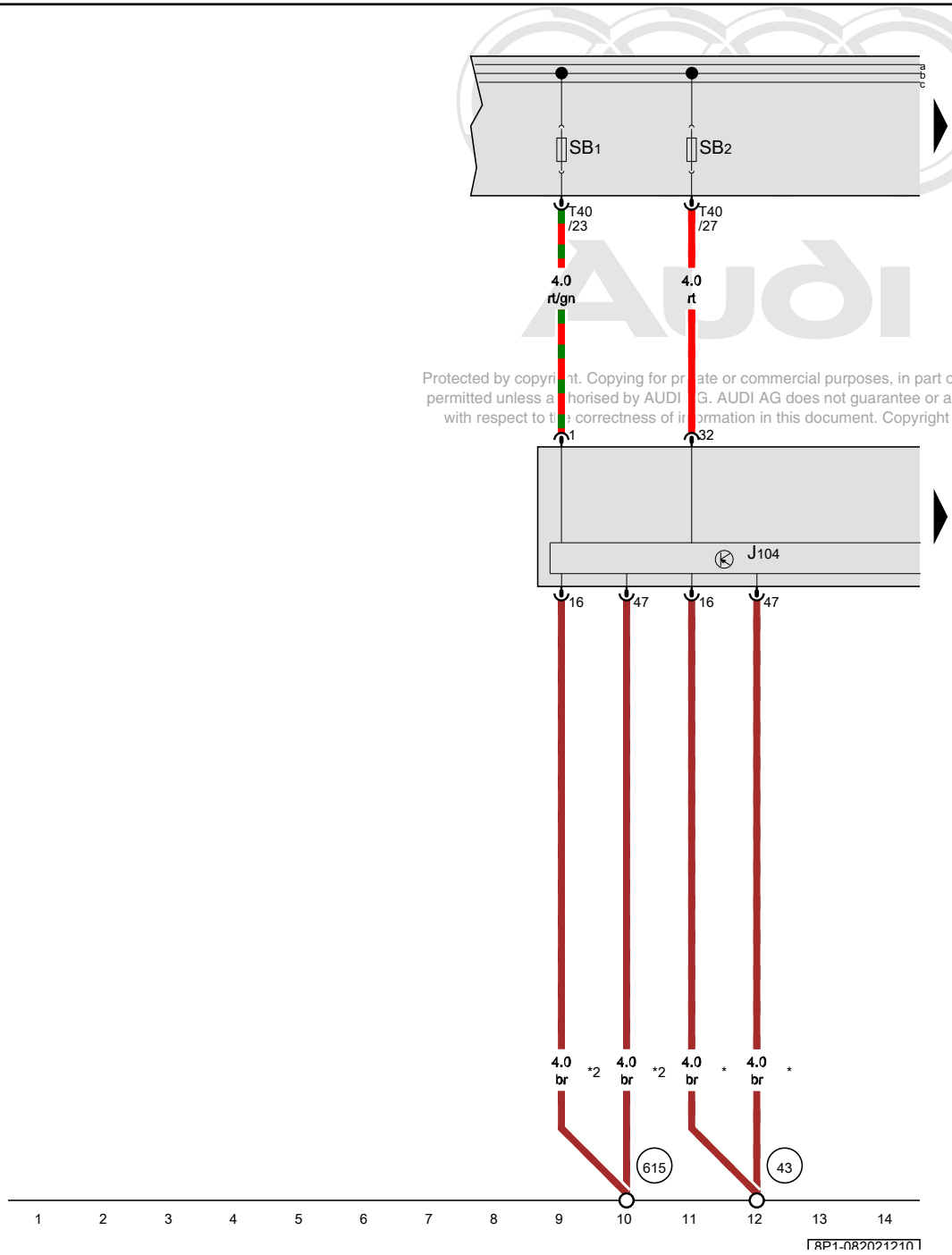
J151	Continued coolant circulation relay
J220	Motronic control unit
SB9	Fuse 9 on fuse holder B
T4v	4-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
V51	Continued coolant circulation pump
85	Earth connection 1, in engine compartment wiring harness
283	Earth connection 2, in engine harness
607	Earth point, on left in plenum chamber
673	Earth point 3, on front of left longitudinal member
D115	Connection 13, in engine compartment wiring harness
*	for models with engine code AXX, BPY only
**	for models with engine codes BDB, BMJ only

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Anti-lock brake system (ABS) with electronic stabilisation program (ESP), traction control system (TCS) and with no hydraulic brake servo (HBS)

From May 2004

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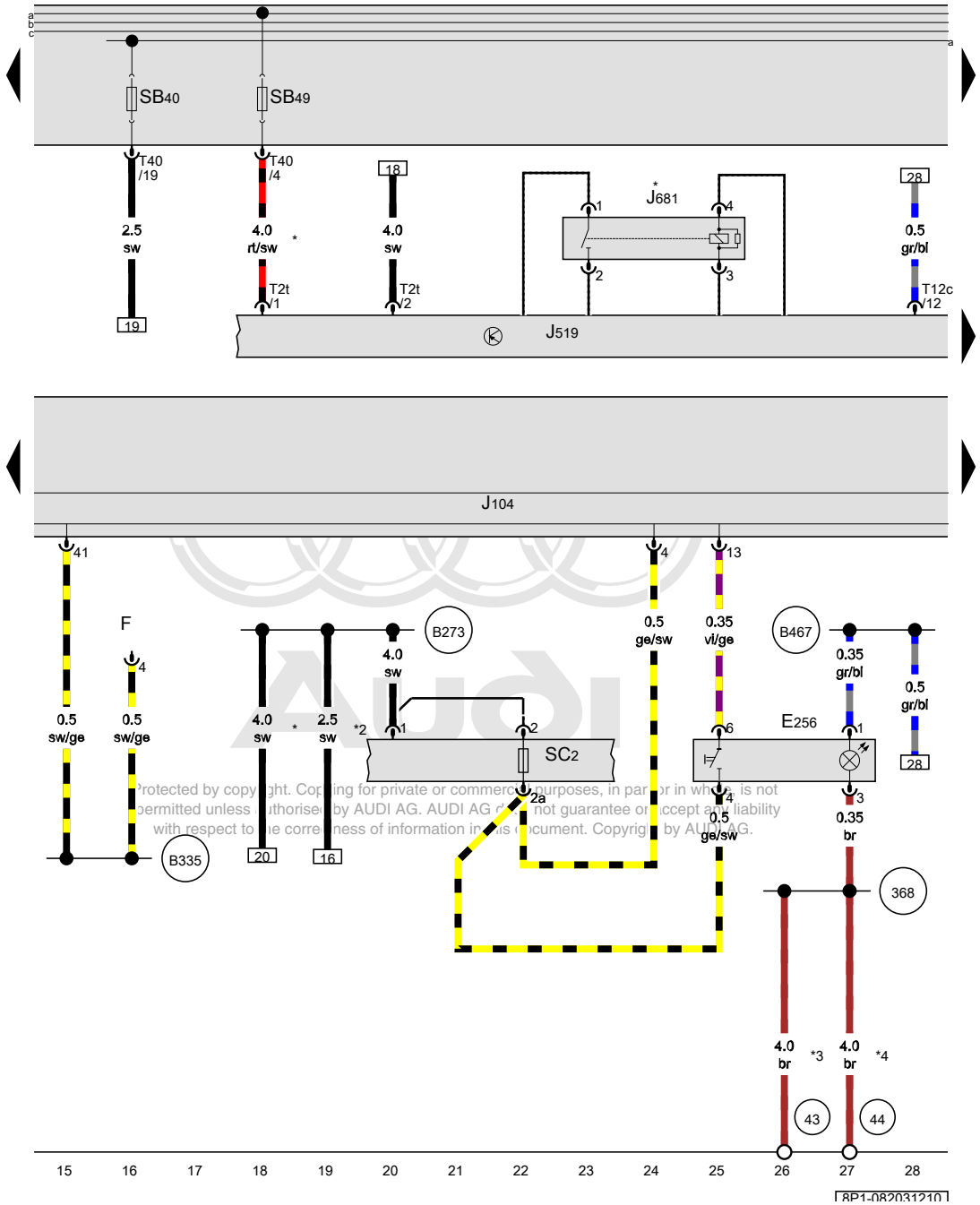


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ABS control unit

J104	ABS control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
T40	40-pin connector
43	Earth point, lower part of right A-pillar
615	Earth point, on left suspension strut
*	Only left-hand drive models
*2	Only right-hand drive models

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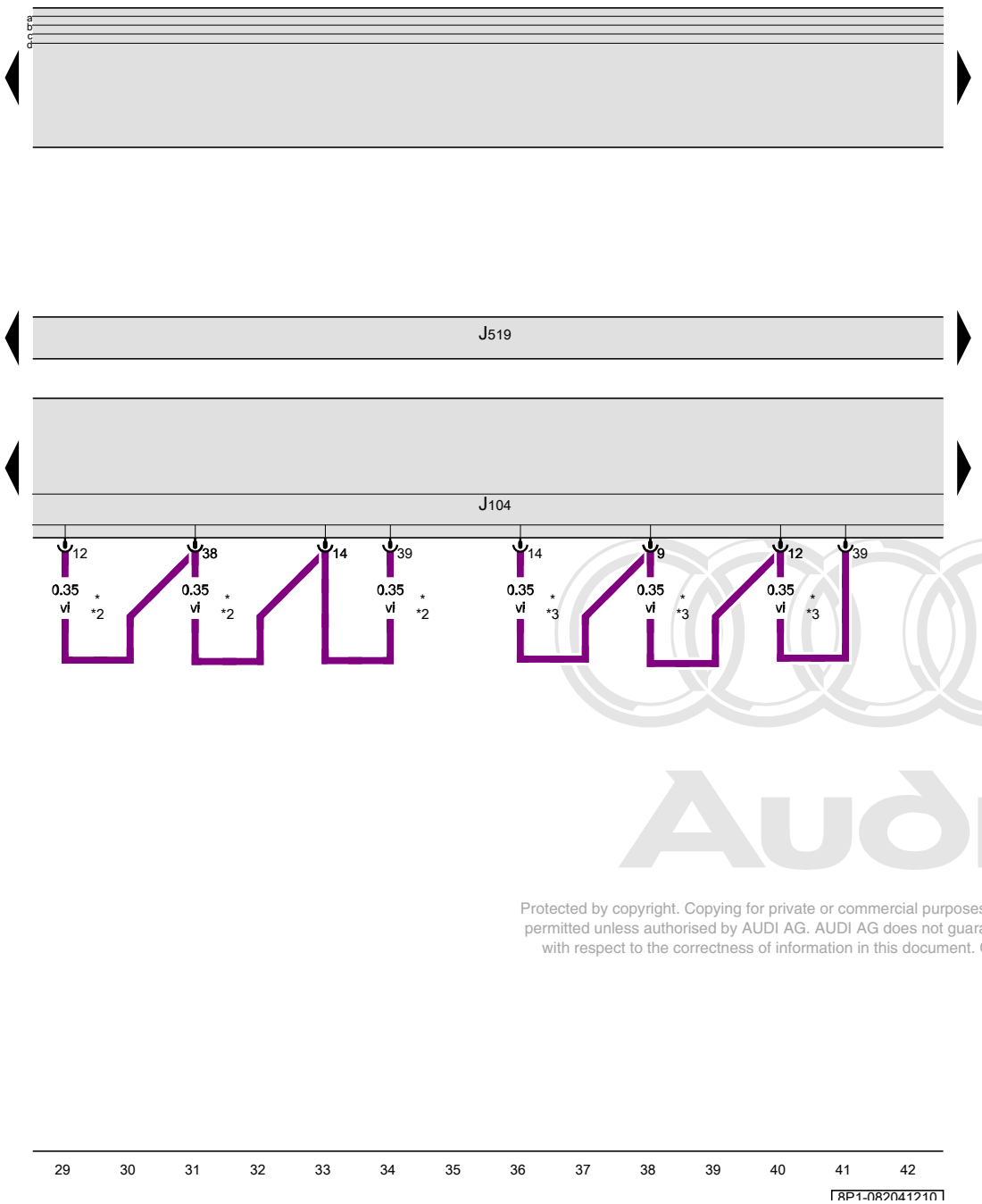


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TCS and ESP button, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

E256	TCS and ESP button
F	Brake light switch
J104	ABS control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SC2	Fuse 2 on fuse holder C
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2t	2-pin connector
T12c	12-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B335	Connection 1 (54), in main wiring harness
B467	Connection 3, in main wiring harness
*	Only models with battery in luggage compartment
*2	Only models with battery in engine compartment
*3	Only right-hand drive models
*4	Only left-hand drive models

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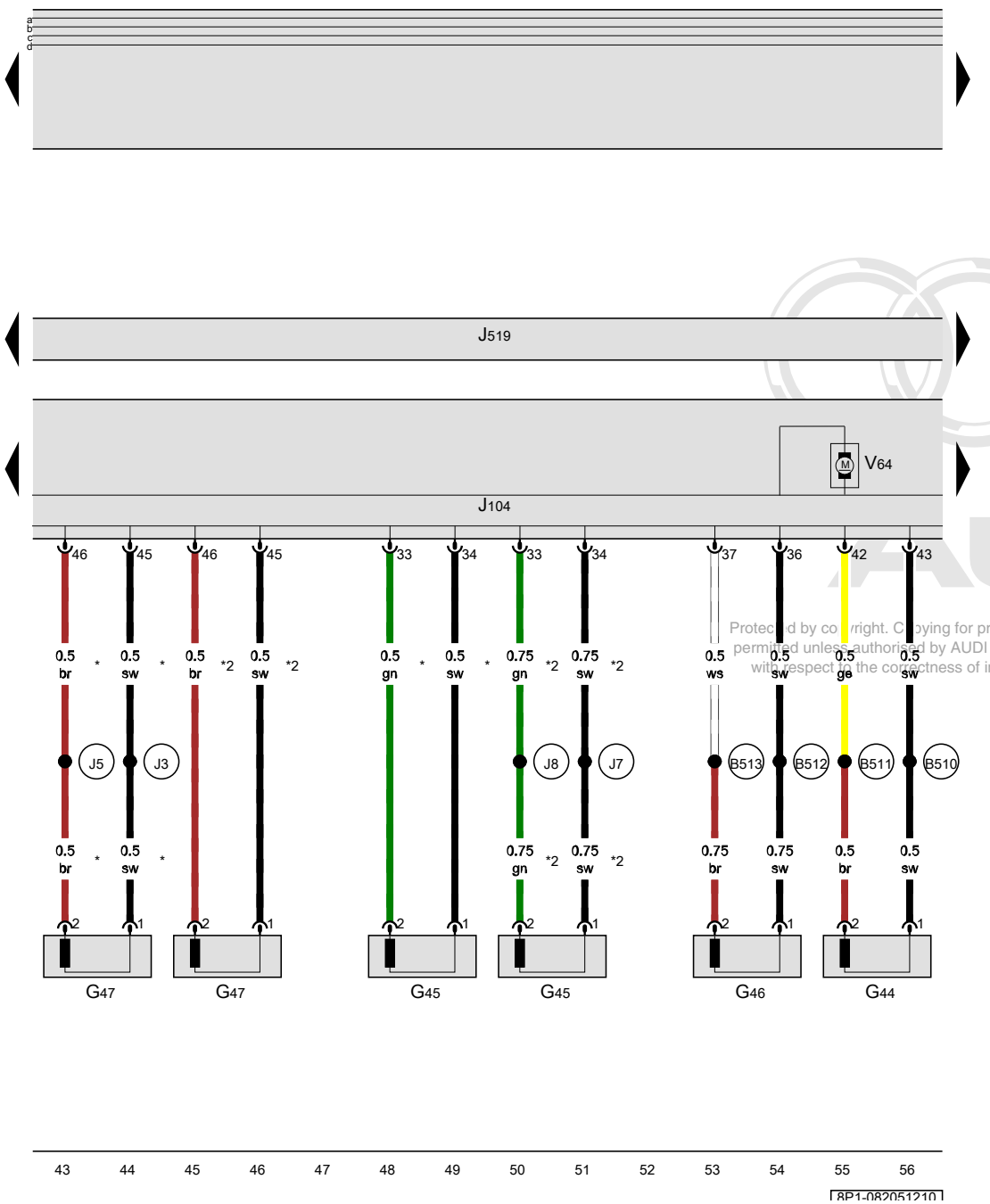


ABS control unit, Onboard supply control unit

J104	ABS control unit
J519	Onboard supply control unit
*	According to equipment
*2	gradual introduction
*3	Gradually discontinued

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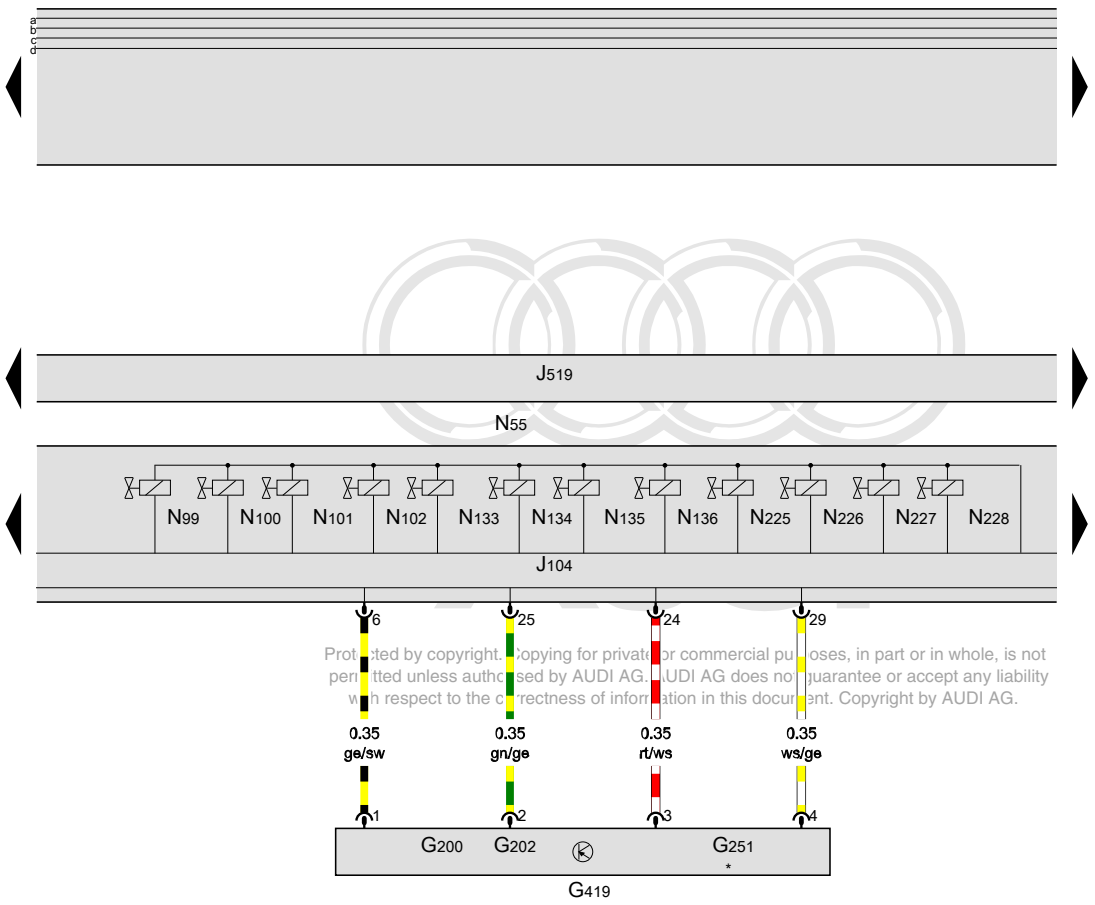


Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit, Onboard supply control unit

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
J519	Onboard supply control unit
V64	ABS hydraulic pump
B510	Connection 1 (rear right speed sensor), in interior wiring harness
B511	Connection 2 (rear right speed sensor), in interior wiring harness
B512	Connection 1 (rear left speed sensor), in interior wiring harness
B513	Connection 2 (rear left speed sensor), in interior wiring harness
J3	Connection 1, in ABS wiring harness
J5	Connection 2, in ABS wiring harness
J7	Connection 3, in ABS wiring harness
J8	Connection 4, in ABS wiring harness
*	Only left-hand drive models
*2	Only right-hand drive models

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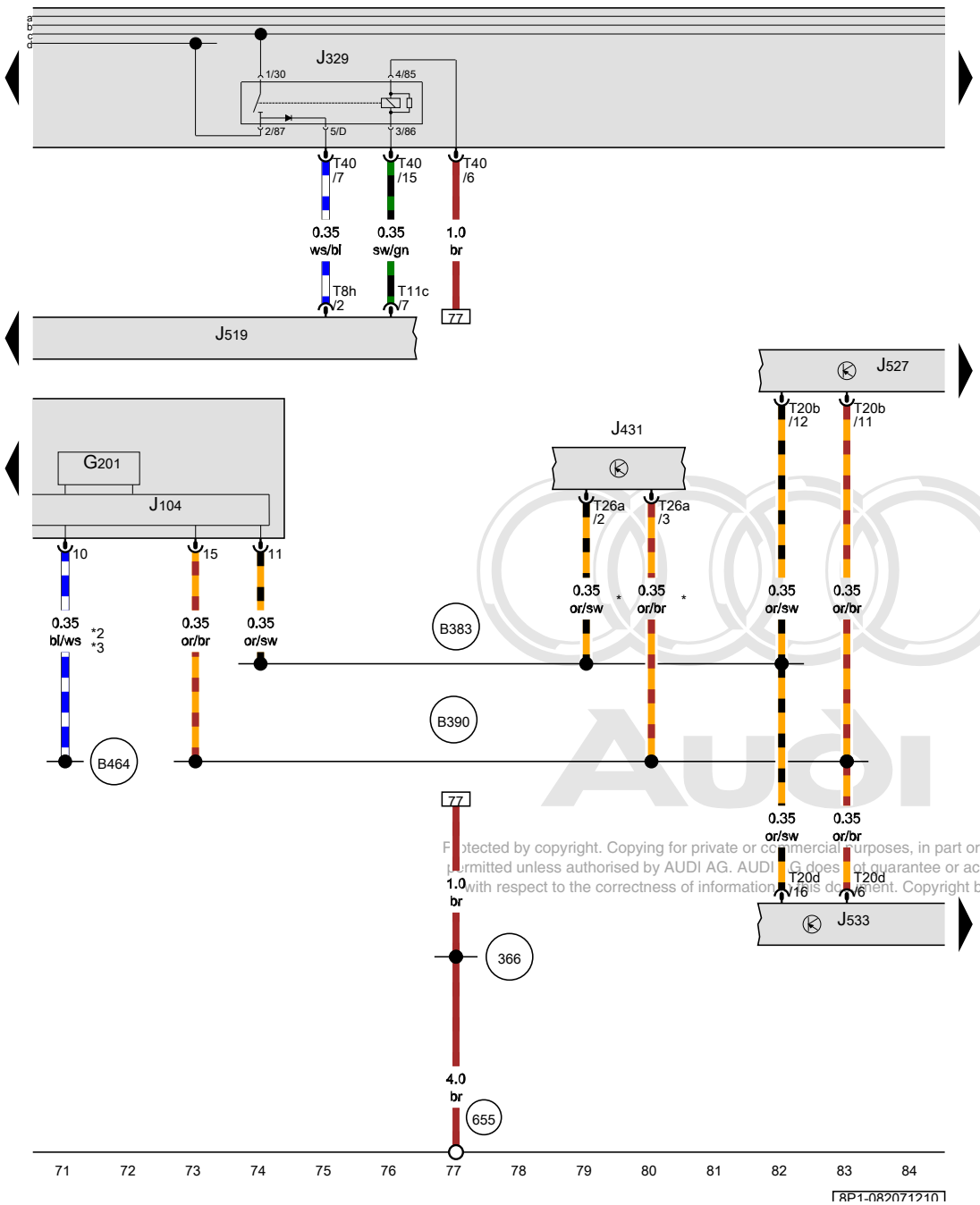


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ESP sensor unit, ABS control unit, Onboard supply control unit, ABS hydraulic unit

G200	Lateral acceleration sender
G202	Yaw rate sender
G251	Longitudinal acceleration sender
G419	ESP sensor unit
J104	ABS control unit
J519	Onboard supply control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N225	Vehicle stabilization program switch valve 1
N226	Vehicle stabilization program switch valve 2
N227	Vehicle stabilization program high-pressure valve 1
N228	Vehicle stabilization program high-pressure valve 2
*	Only models with all-wheel drive

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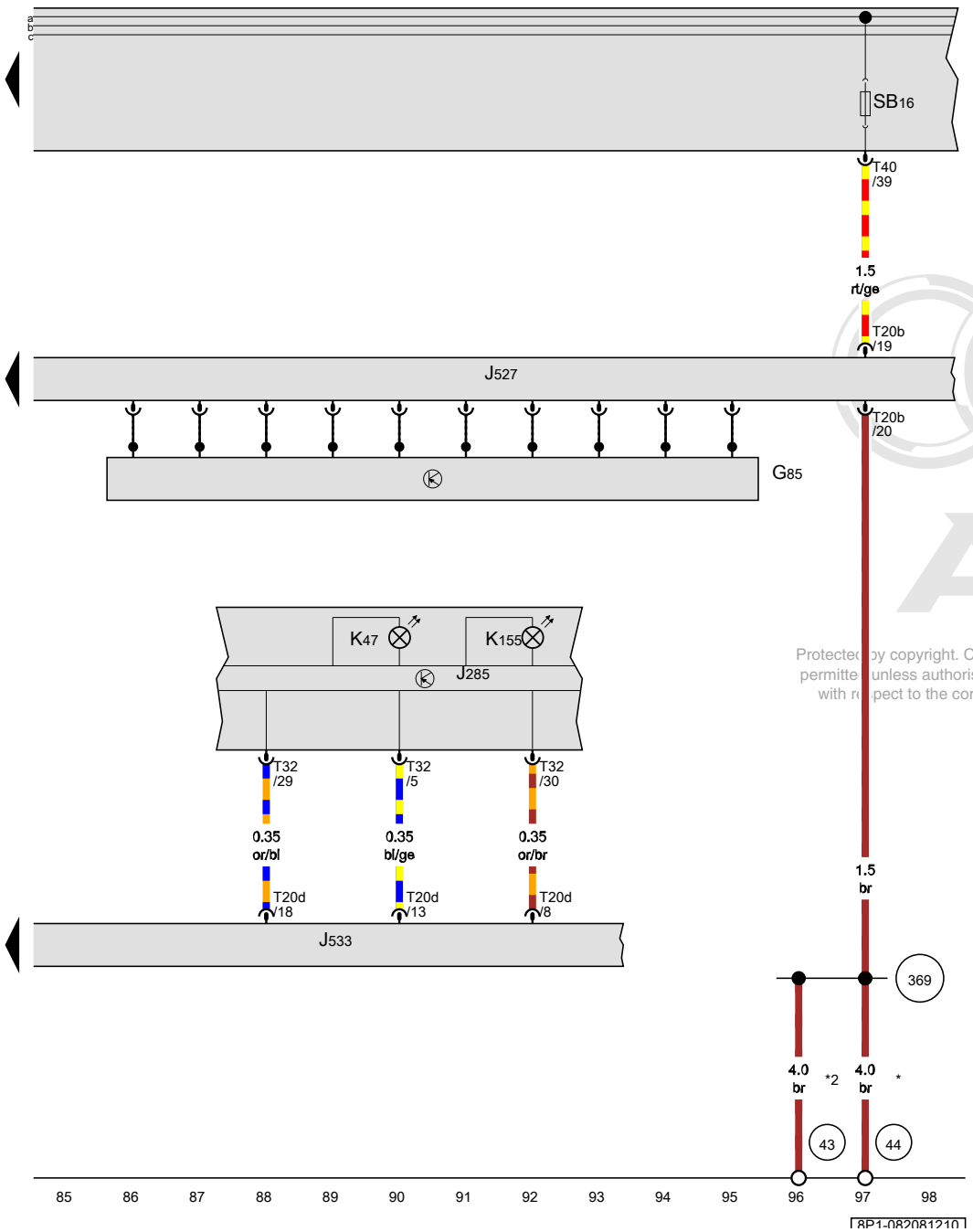


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Brake pressure sender 1, ABS control unit, Headlight range control unit, Onboard supply control unit, Steering column electronics control unit, Data bus diagnostic interface

G201	Brake pressure sender 1
J104	ABS control unit
J329	Terminal 15 voltage supply relay
J431	Headlight range control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T8h	8-pin connector
T11c	11-pin connector
T20b	20-pin connector
T20d	20-pin connector
T26a	26-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	According to equipment
*2	Only models with navigation system
*3	see applicable current flow diagram



Steering angle sender, Control unit in dash panel insert, Steering column electronics control unit, Data bus diagnostic interface, ABS warning lamp, ESP and TCS warning lamp

G85	Steering angle sender
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K47	ABS warning lamp
K155	ESP and TCS warning lamp
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
*	Only left-hand drive models
*2	Only right-hand drive models

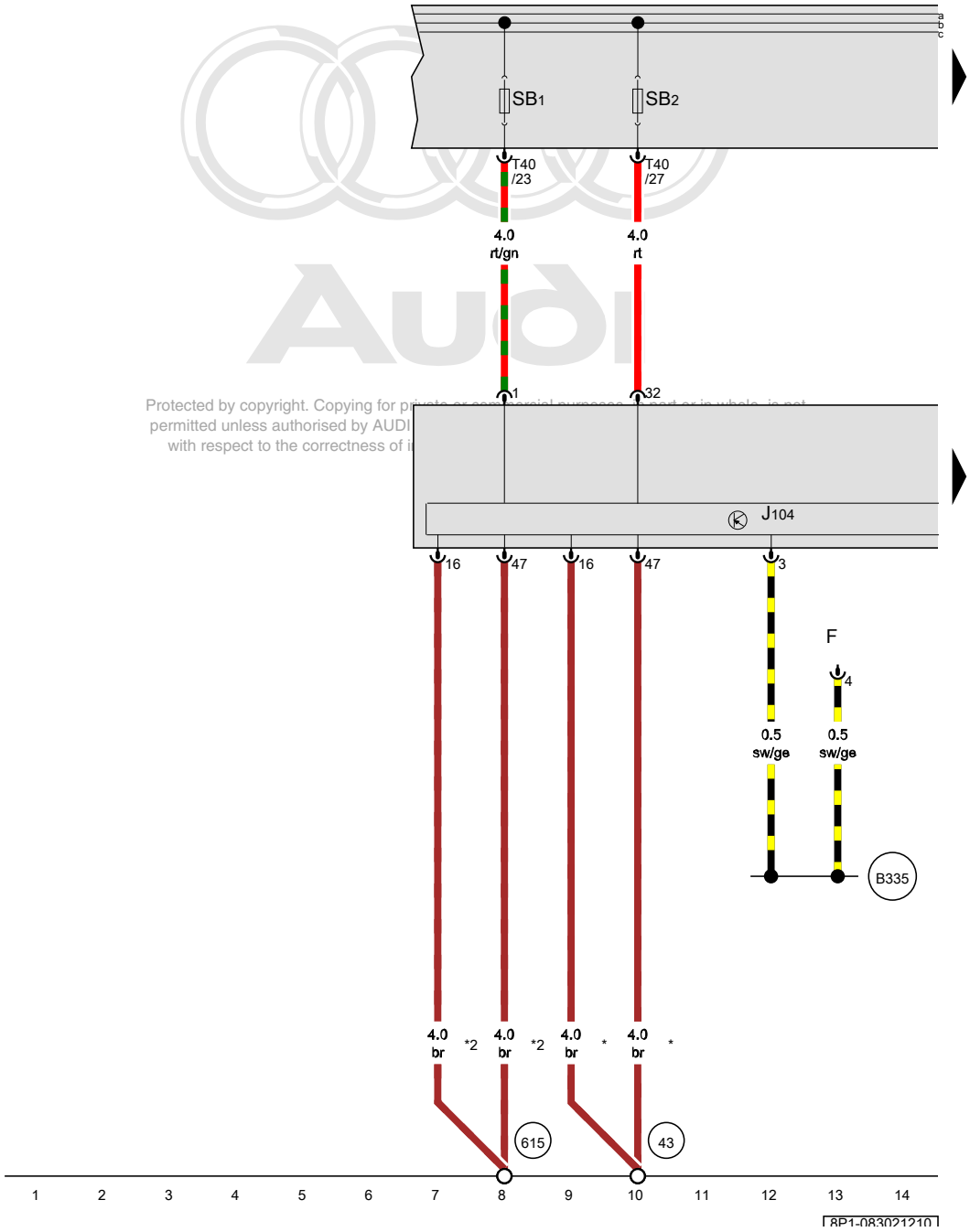
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Anti-lock brake system (ABS) with electronic stabilisation program (ESP), traction control system (TCS) and hydraulic brake servo (HBS)

From May 2004

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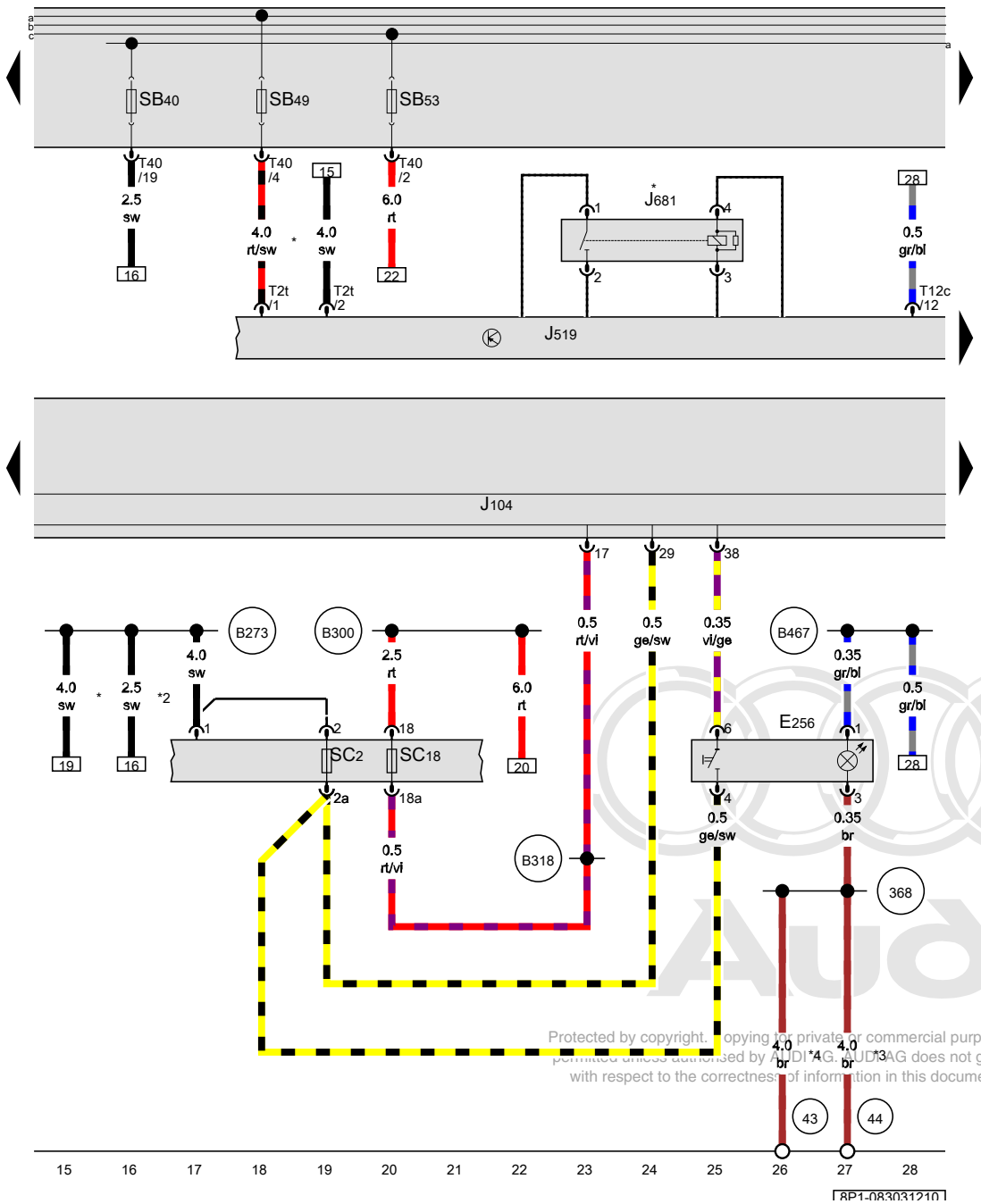


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ABS control unit

F	Brake light switch
J104	ABS control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
T40	40-pin connector
43	Earth point, lower part of right A-pillar
615	Earth point, on left suspension strut
B335	Connection 1 (54), in main wiring harness
*	Only left-hand drive models
*2	Only right-hand drive models

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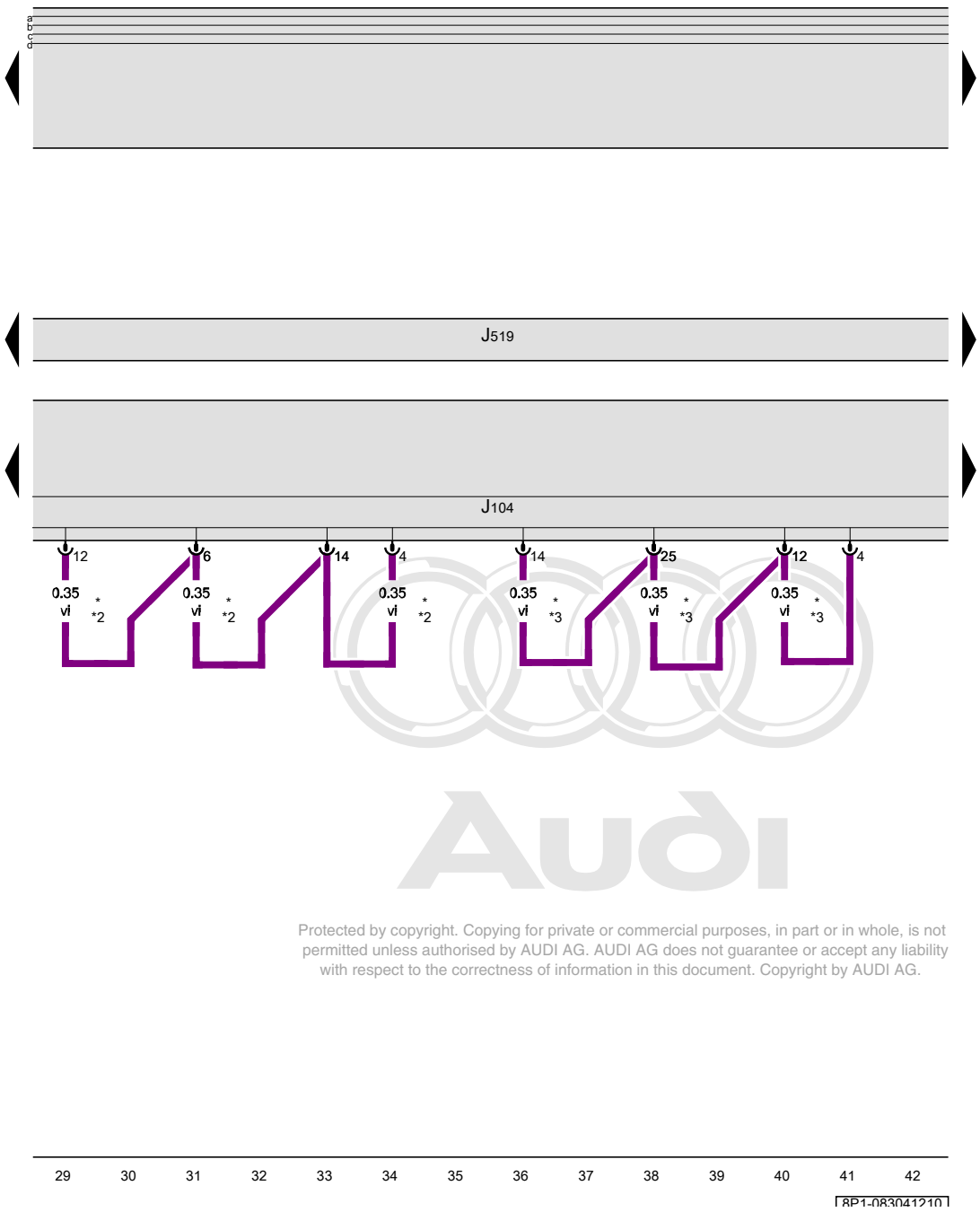


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or = orange
rs = pink

TCS and ESP button, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

E256	TCS and ESP button
J104	ABS control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SC2	Fuse 2 on fuse holder C
SC18	Fuse 18 on fuse holder C
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
T2t	2-pin connector
T12c	12-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
B318	Positive connection 4 (30a) in main wiring harness
B467	Connection 3, in main wiring harness
*	Only models with battery in luggage compartment
*2	Only models with battery in engine compartment
*3	Only left-hand drive models
*4	Only right-hand drive models

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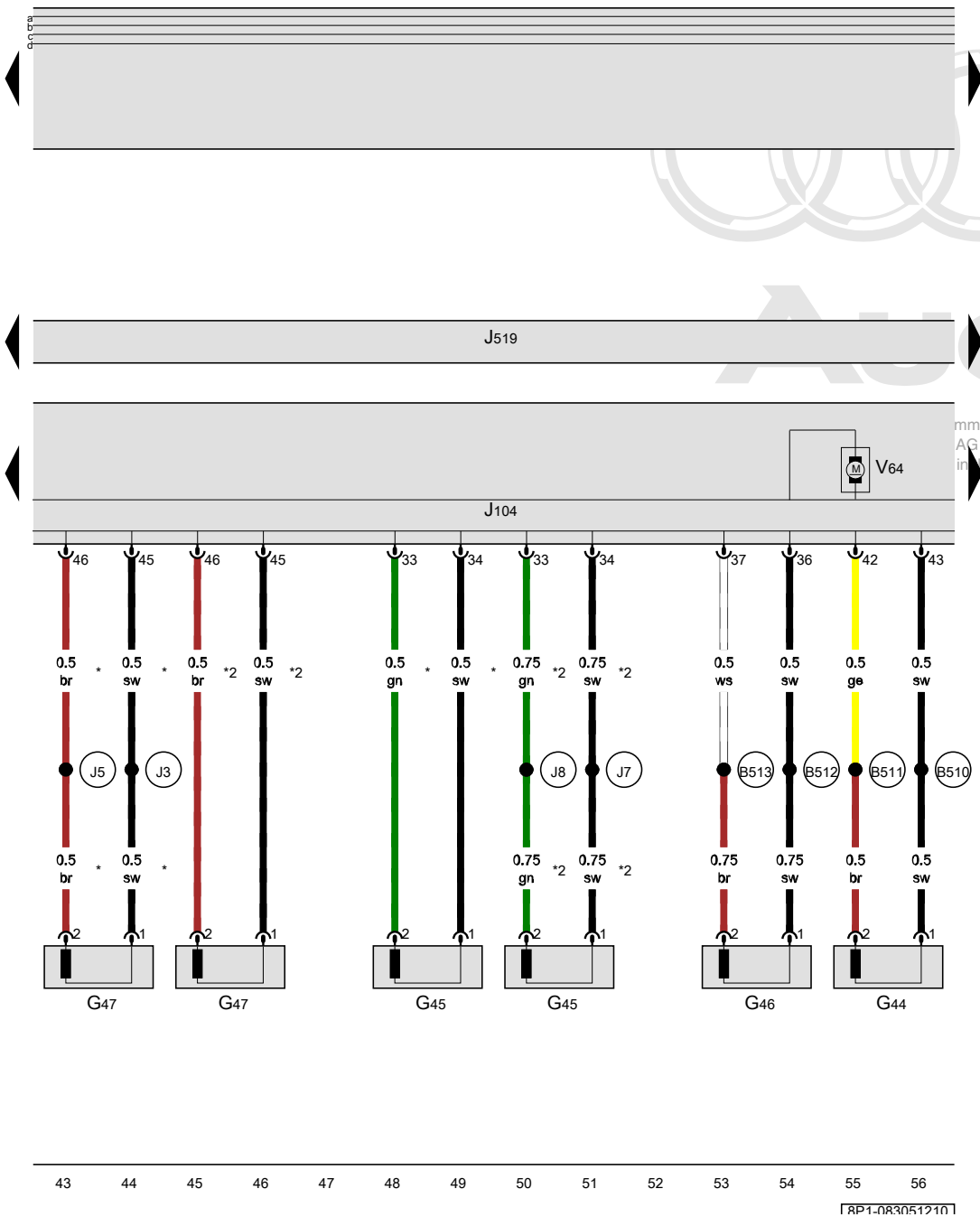


ABS control unit, Onboard supply control unit

J104	ABS control unit
J519	Onboard supply control unit
*	According to equipment
*2	gradual introduction
*3	Gradually discontinued

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Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit, Onboard supply control unit

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
J519	Onboard supply control unit
V64	ABS hydraulic pump
B510	Connection 1 (rear right speed sensor), in interior wiring harness
B511	Connection 2 (rear right speed sensor), in interior wiring harness
B512	Connection 1 (rear left speed sensor), in interior wiring harness
B513	Connection 2 (rear left speed sensor), in interior wiring harness
J3	Connection 1, in ABS wiring harness
J5	Connection 2, in ABS wiring harness
J7	Connection 3, in ABS wiring harness
J8	Connection 4, in ABS wiring harness
*	Only left-hand drive models
*2	Only right-hand drive models

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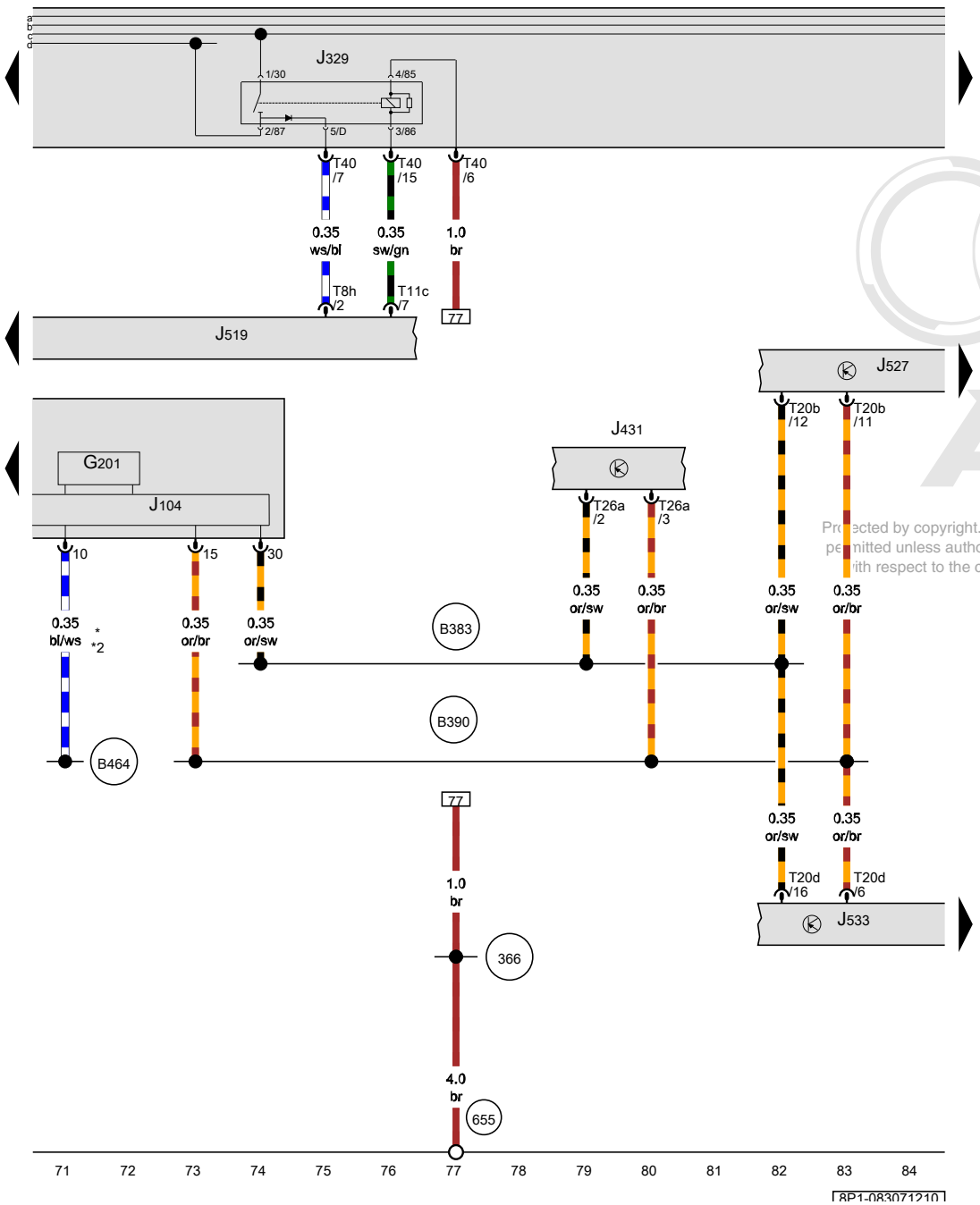


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ESP sensor unit, Brake servo vacuum sender, ABS control unit, Onboard supply control unit, ABS hydraulic unit

G200	Lateral acceleration sender
G202	Yaw rate sender
G251	Longitudinal acceleration sender
G419	ESP sensor unit
G483	Brake servo vacuum sender
J104	ABS control unit
J519	Onboard supply control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N225	Vehicle stabilization program switch valve 1
N226	Vehicle stabilization program switch valve 2
N227	Vehicle stabilization program high-pressure valve 1
N228	Vehicle stabilization program high-pressure valve 2
*	Only models with all-wheel drive

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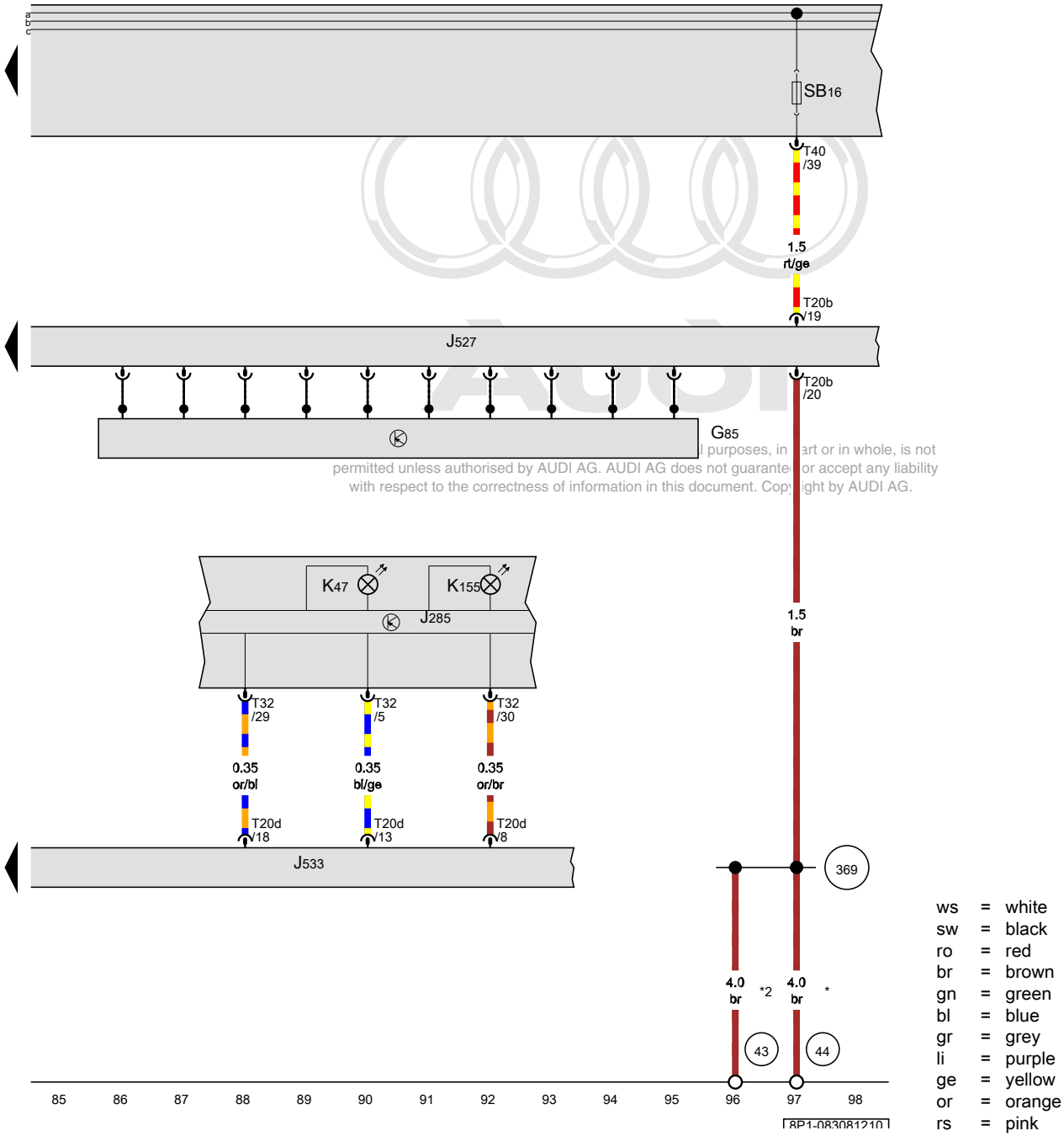


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Brake pressure sender 1, ABS control unit, Headlight range control unit, Onboard supply control unit, Steering column electronics control unit, Data bus diagnostic interface

G201	Brake pressure sender 1
J104	ABS control unit
J329	Terminal 15 voltage supply relay
J431	Headlight range control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T8h	8-pin connector
T11c	11-pin connector
T20b	20-pin connector
T20d	20-pin connector
T26a	26-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	Only models with navigation system
*2	see applicable current flow diagram

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Steering angle sender, Control unit in dash panel insert, Steering column electronics control unit, Data bus diagnostic interface, ABS warning lamp, ESP and TCS warning lamp

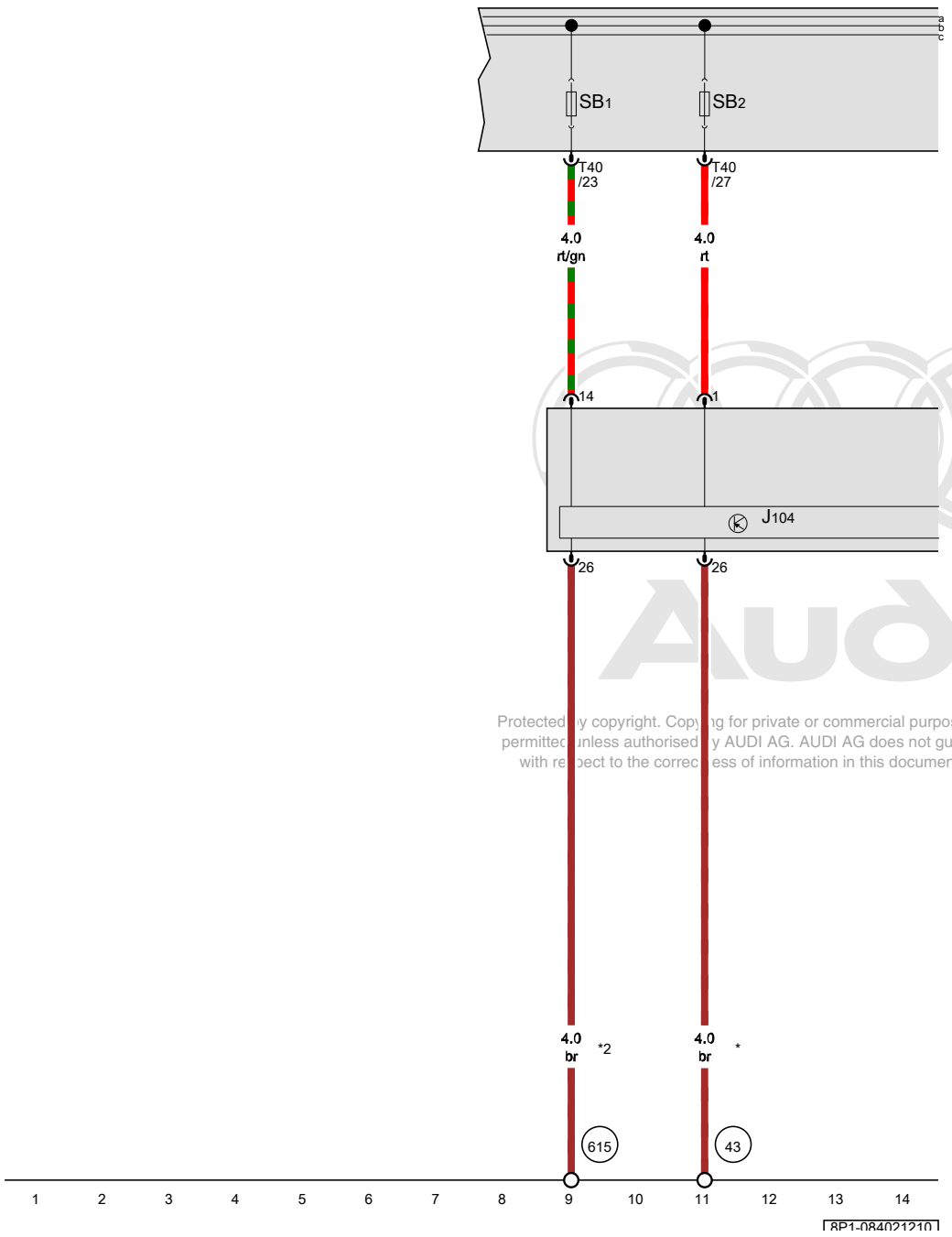
G85	Steering angle sender
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K47	ABS warning lamp
K155	ESP and TCS warning lamp
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
*	Only left-hand drive models
*2	Only right-hand drive models

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Anti-lock brake system (ABS) with traction control system (TCS)

From May 2004

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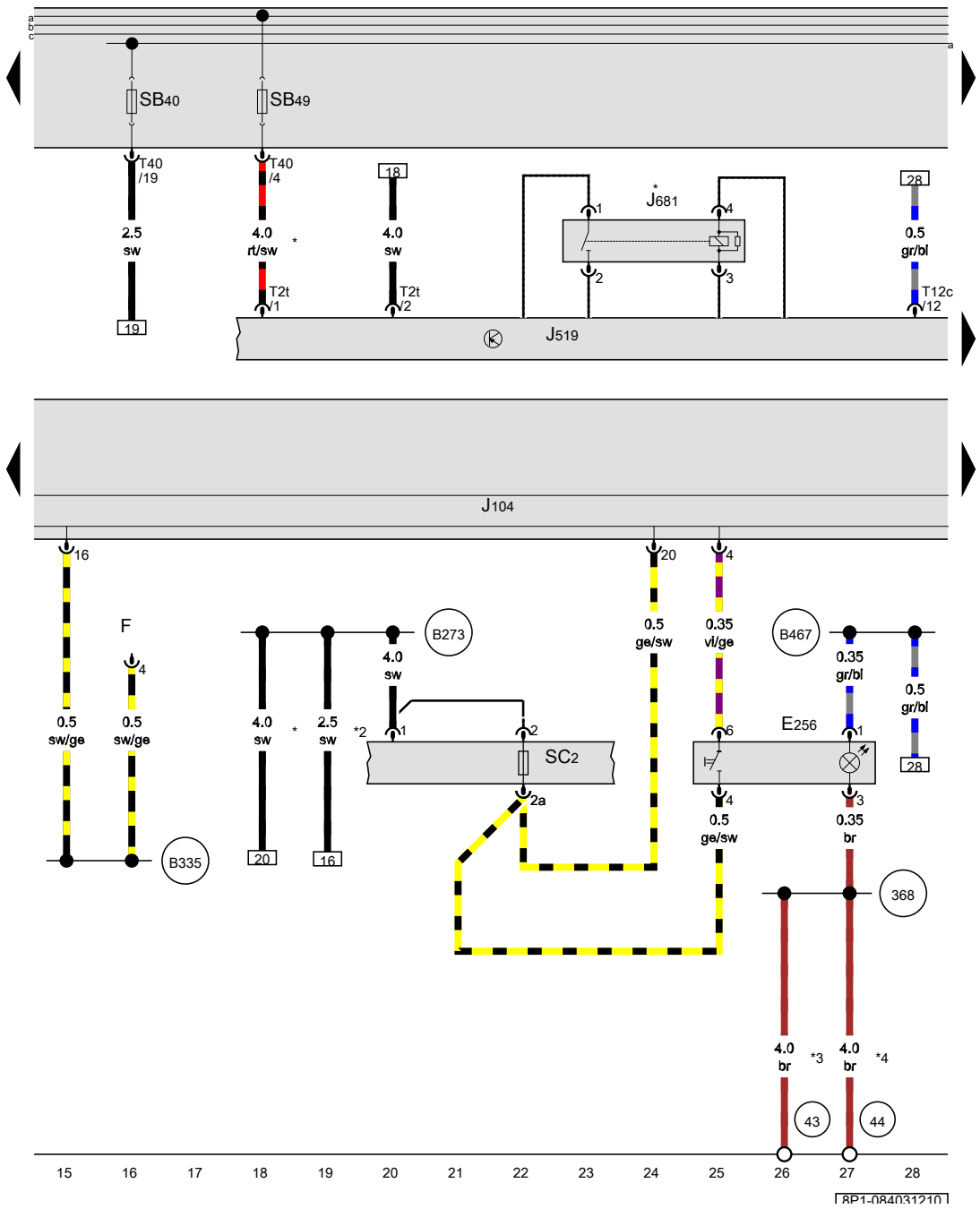


ABS control unit

J104	ABS control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
T40	40-pin connector
43	Earth point, lower part of right A-pillar
615	Earth point, on left suspension strut
*	Only left-hand drive models
*2	Only right-hand drive models

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TCS and ESP button, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

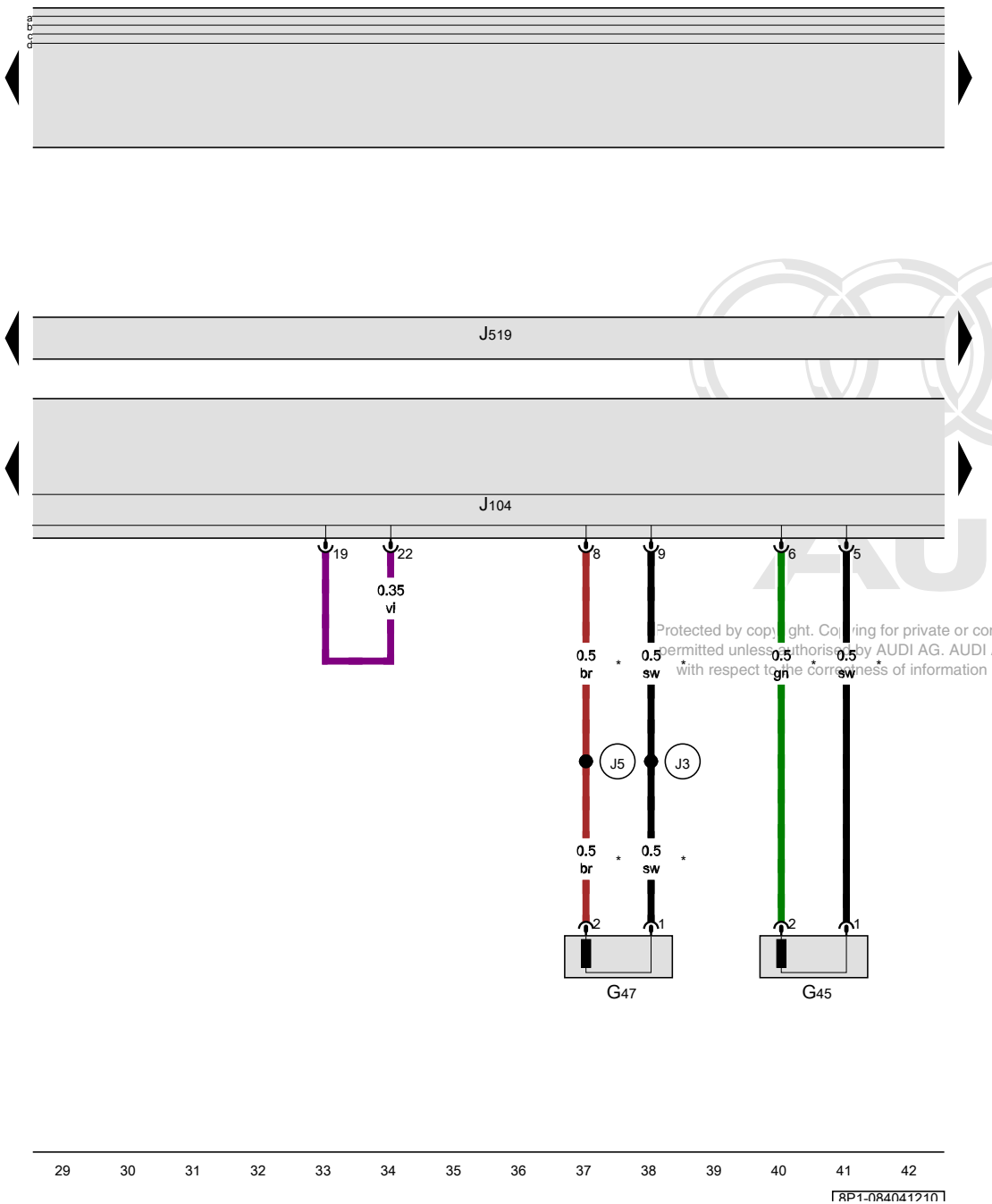
E256	TCS and ESP button
F	Brake light switch
J104	ABS control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SC2	Fuse 2 on fuse holder C
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2t	2-pin connector
T12c	12-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B335	Connection 1 (54), in main wiring harness
B467	Connection 3, in main wiring harness
*	Only models with battery in luggage compartment
*2	Only models with battery in engine compartment
*3	Only right-hand drive models
*4	Only left-hand drive models

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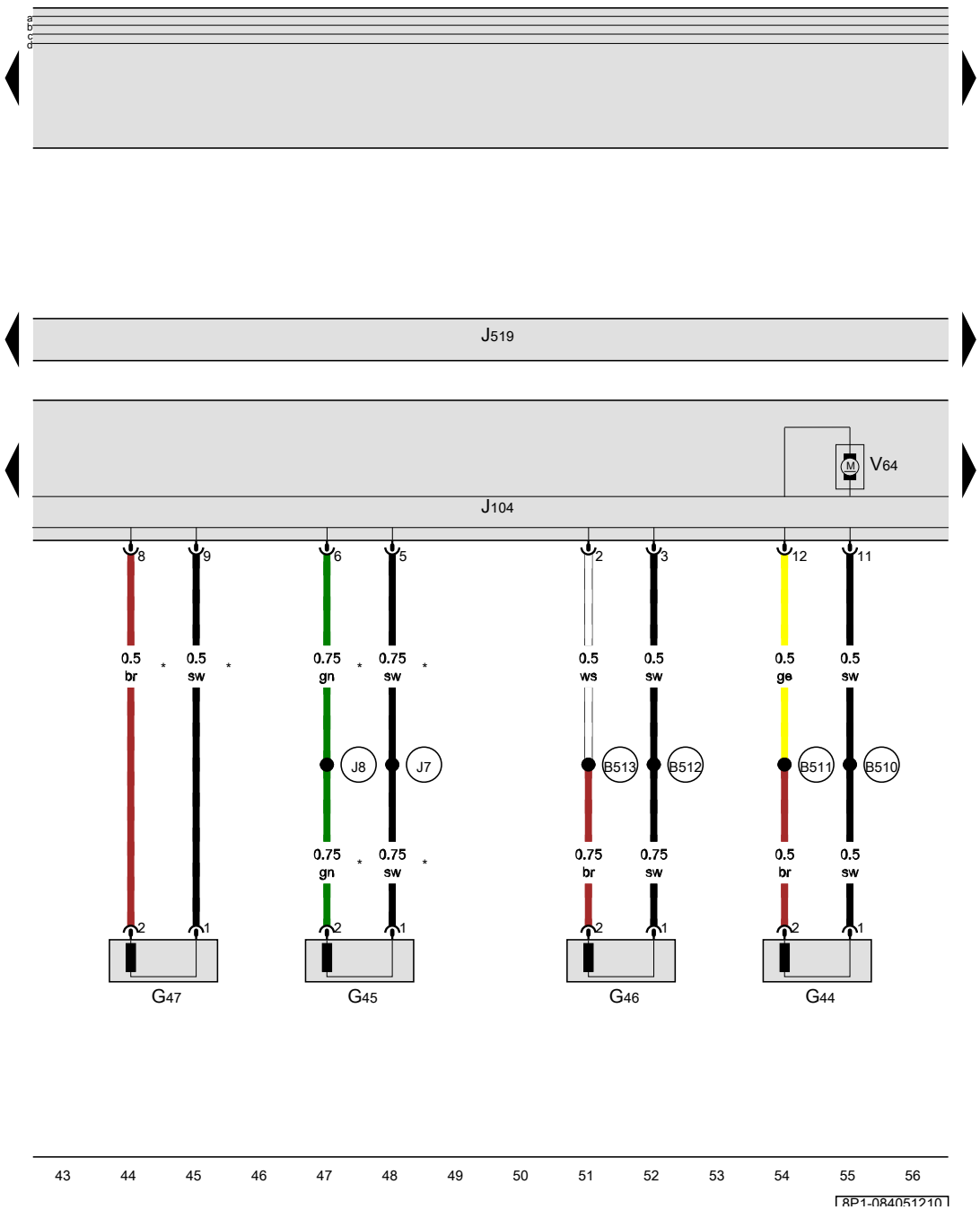
Front right speed sensor, Front left speed sensor, ABS control unit, Onboard supply control unit

G45	Front right speed sensor
G47	Front left speed sensor
J104	ABS control unit
J519	Onboard supply control unit
J3	Connection 1, in ABS wiring harness
J5	Connection 2, in ABS wiring harness
*	Only left-hand drive models



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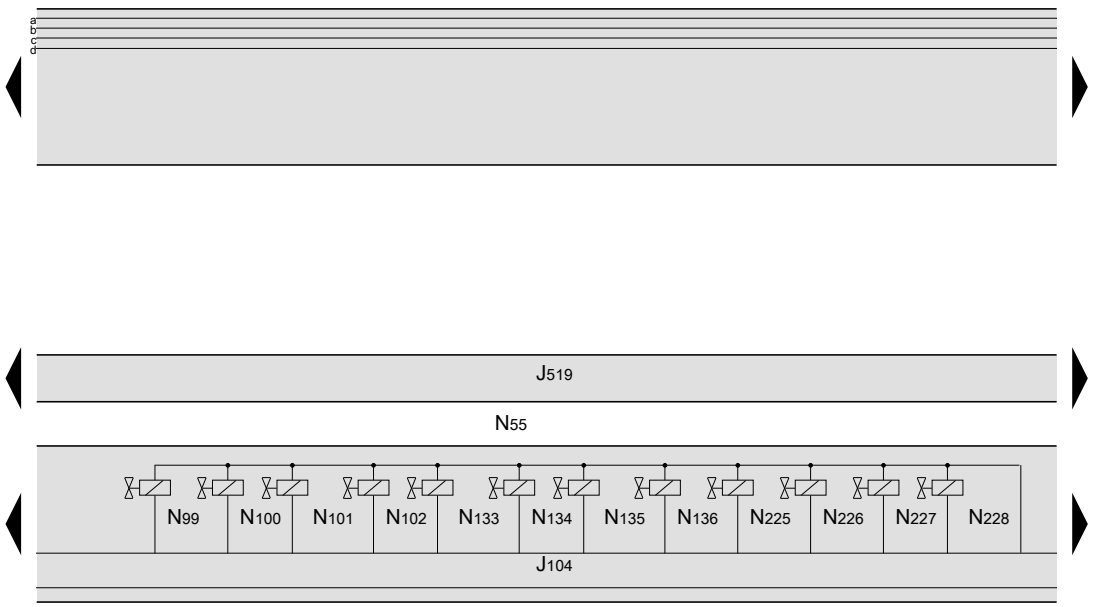


Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit, Onboard supply control unit

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
J519	Onboard supply control unit
V64	ABS hydraulic pump
B510	Connection 1 (rear right speed sensor), in interior wiring harness
B511	Connection 2 (rear right speed sensor), in interior wiring harness
B512	Connection 1 (rear left speed sensor), in interior wiring harness
B513	Connection 2 (rear left speed sensor), in interior wiring harness
J7	Connection 3, in ABS wiring harness
J8	Connection 4, in ABS wiring harness
*	Only right-hand drive models

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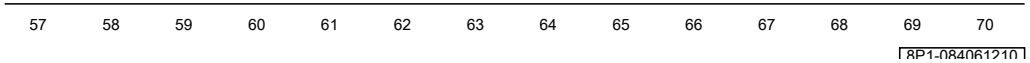
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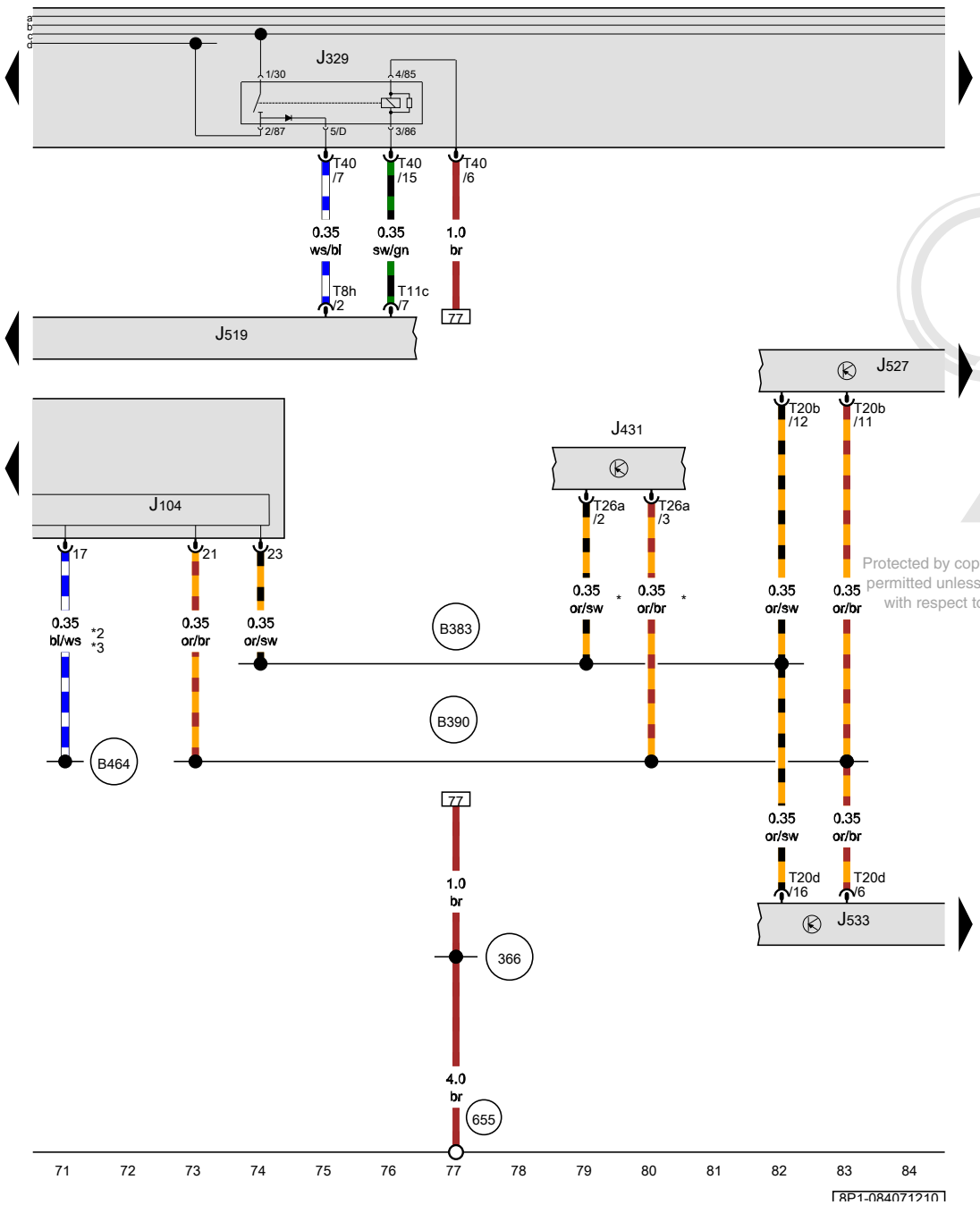
ABS control unit, Onboard supply control unit, ABS hydraulic unit

J104	ABS control unit
J519	Onboard supply control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N225	Vehicle stabilization program switch valve 1
N226	Vehicle stabilization program switch valve 2
N227	Vehicle stabilization program high-pressure valve 1
N228	Vehicle stabilization program high-pressure valve 2

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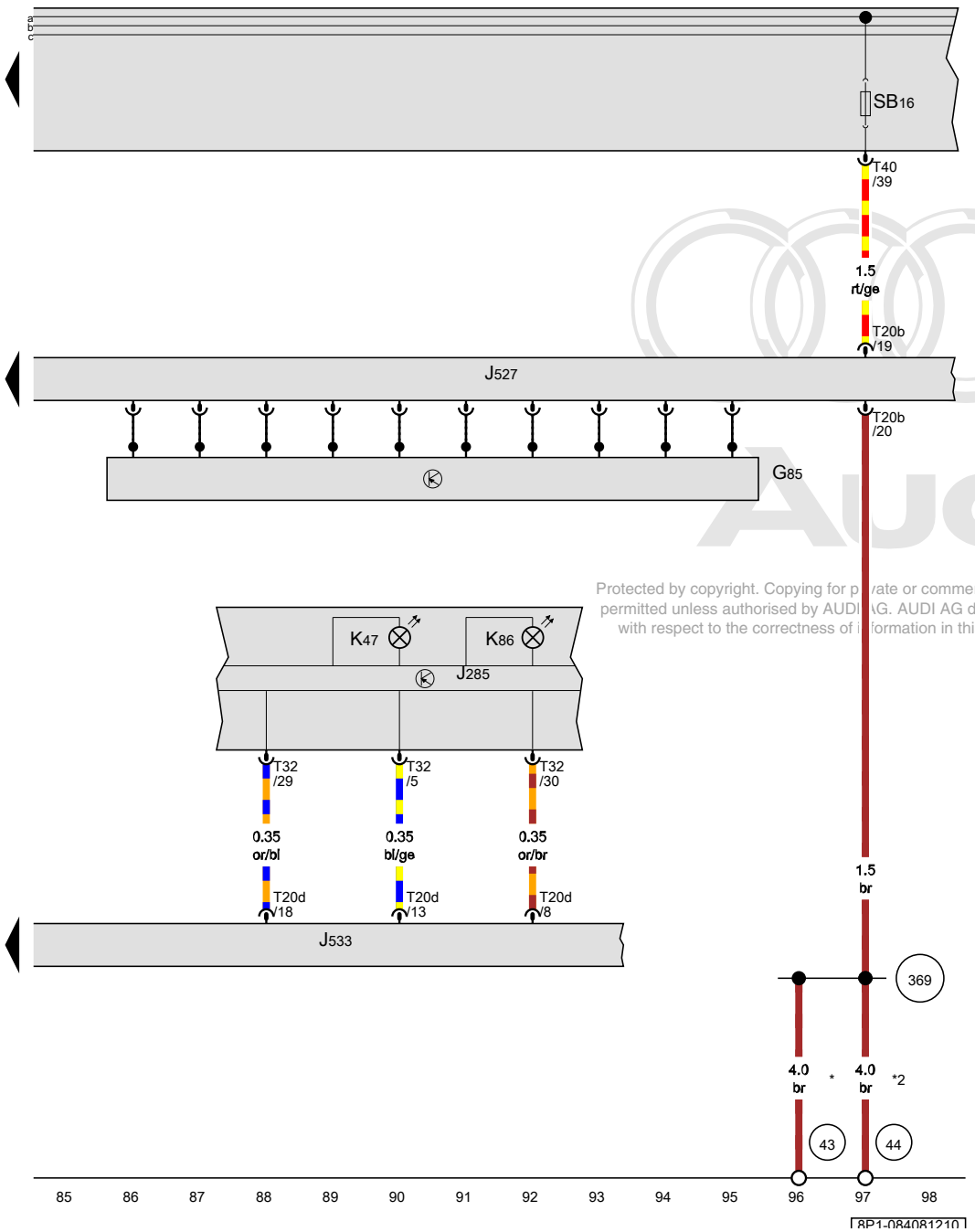


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ABS control unit, Headlight range control unit, Onboard supply control unit, Steering column electronics control unit, Data bus diagnostic interface

J104	ABS control unit
J329	Terminal 15 voltage supply relay
J431	Headlight range control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T8h	8-pin connector
T11c	11-pin connector
T20b	20-pin connector
T20d	20-pin connector
T26a	26-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	According to equipment
*2	Only models with navigation system
*3	see applicable current flow diagram

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Steering angle sender, Control unit in dash panel insert, Steering column electronics control unit, Data bus diagnostic interface, ABS warning lamp, Traction control system warning lamp

G85	Steering angle sender
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K47	ABS warning lamp
K86	Traction control system warning lamp
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
*	Only right-hand drive models
*2	Only left-hand drive models

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Driving school vehicle

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

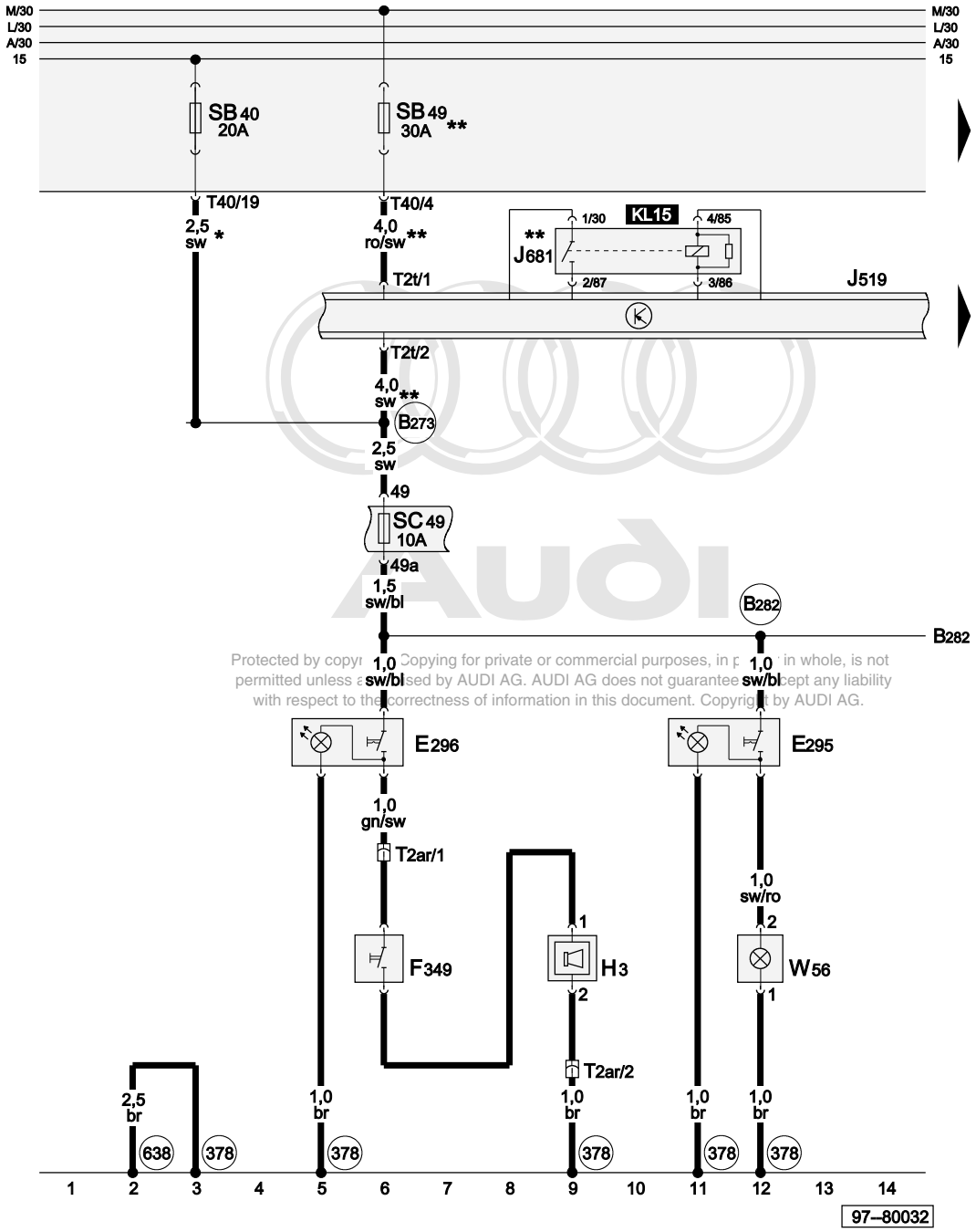
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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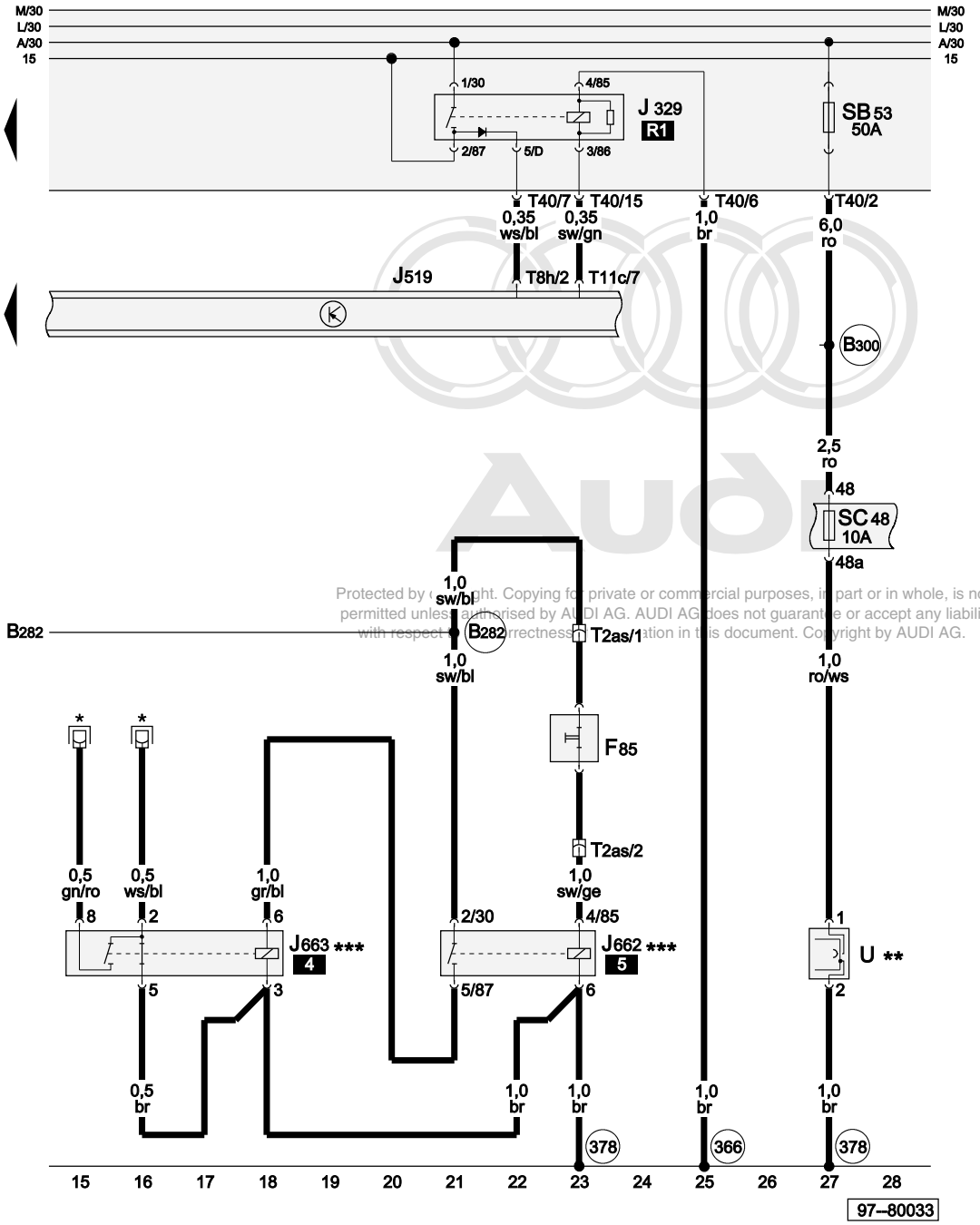


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Footwell light switch, warning buzzer switch

E295	Footwell light switch
E296	Warning buzzer switch
F349	Warning buzzer for pedal switch on front passenger side
H3	Buzzer or gong
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC49	Fuse 49 on fuse holder C
T2t	2-pin connector, black (connector L)
T2ar	2-pin connector, black, behind the glove compartment
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
W56	Driving school vehicle footwell illumination
378	Earth connection 13, in main wiring harness
638	Earth point, right A-pillar
B273	Positive connection (15), in main wiring harness
B282	Positive connection 6 (15a), in main wiring harness
*	For models with battery in engine compartment only
**	For models with battery in luggage compartment only



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Combi-processor in dash panel insert, electric socket

F85	Brake pedal switch for engine off
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J662	Engine power reduction relay 1
J663	Engine power reduction relay 2
SB53	Fuse 53 on fuse holder
SC48	Fuse 48 on fuse holder
T2as	2-pin connector, white, behind the glove compartment
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
U	Electric socket
366	Earth connection 1, in main wiring harness
378	Earth connection 13, in main wiring harness
B282	Positive connection 6 (15a), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
*	Accelerator position sender is fitted with an insulating tape in wiring harness
**	In glove compartment
***	No longer fitted, phased-in modification

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Haldex coupling with four-wheel drive

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

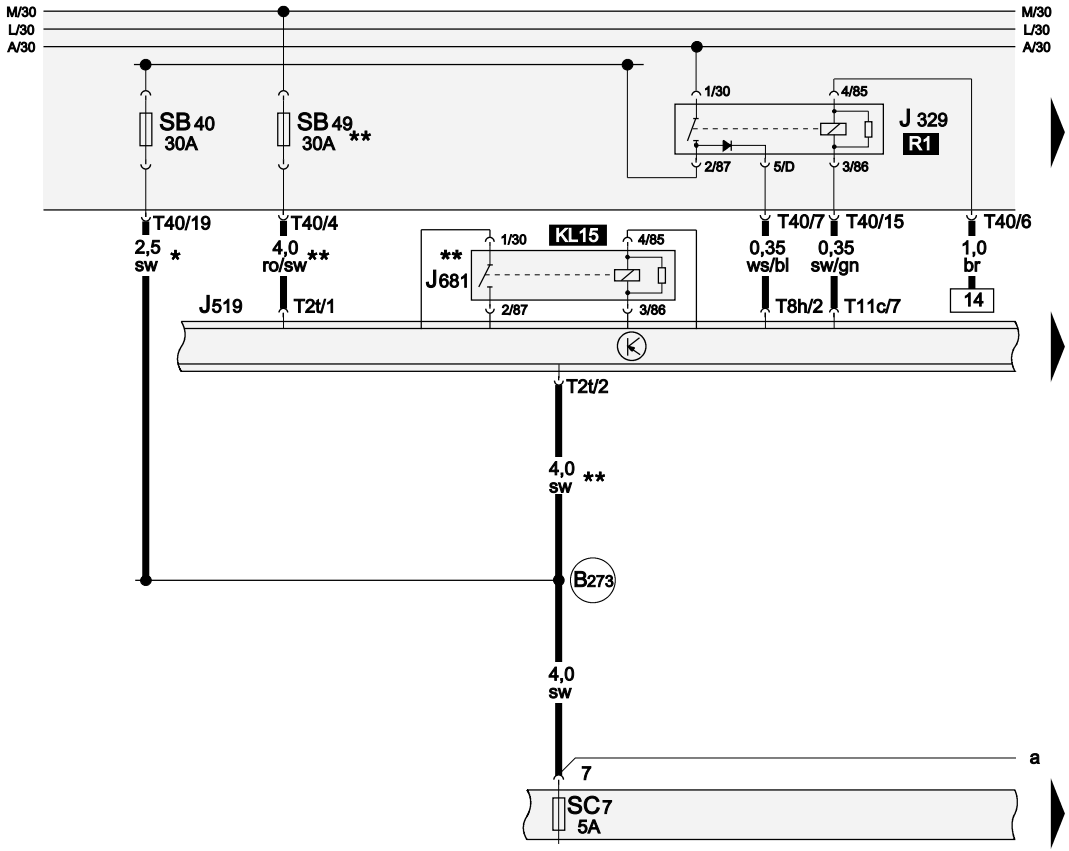
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For information concerning

- Fault Finding Programs

⇒ guided fault finding

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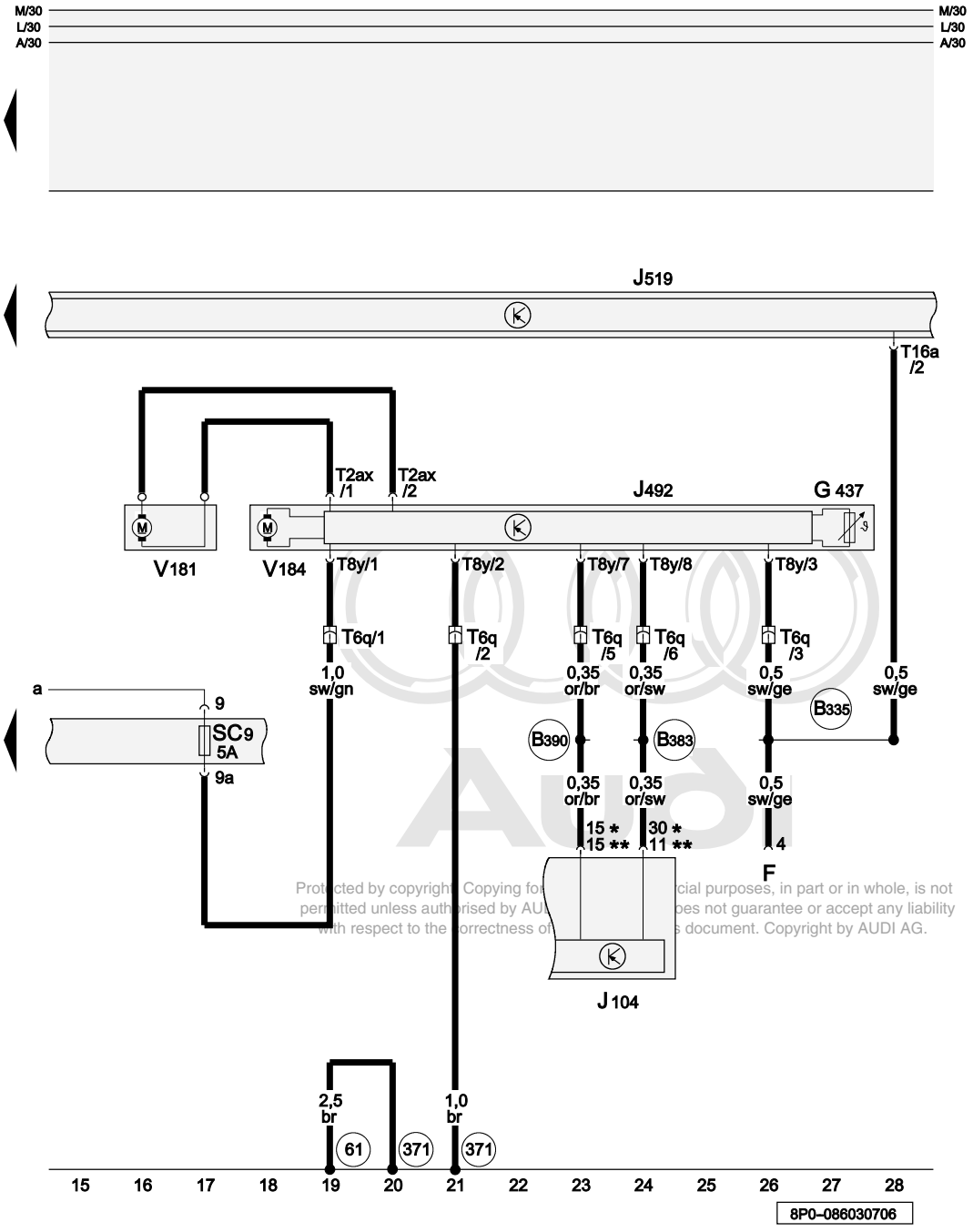


Fuses on fuse holder, terminal 15 voltage supply relay

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B273	Positive connection (15), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

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Fuses on fuse holder, four-wheel drive control unit

F	Brake light switch
G437	Oil pressure and oil temperature sender
J104	ABS control unit
J492	Four-wheel drive control unit
J519	Onboard supply control unit
SC9	Fuse 9 on fuse holder
T2ax	2-pin connector, near four-wheel drive control unit
T6q	6-pin connector, black, near fuel gauge sender 2
T8y	8-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
V181	Haldex coupling pump
V184	Oil pressure control motor
61	Earth point, left C-pillar
371	Earth connection 6, in main wiring harness
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	for models with anti-lock brake system (ABS) MK60 and automatic gearbox (09G) only
**	for models with anti-lock brake system (ABS) MK60 and direct shift gearbox (02E) or manual gearbox only

Direct shift gearbox (02E)

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

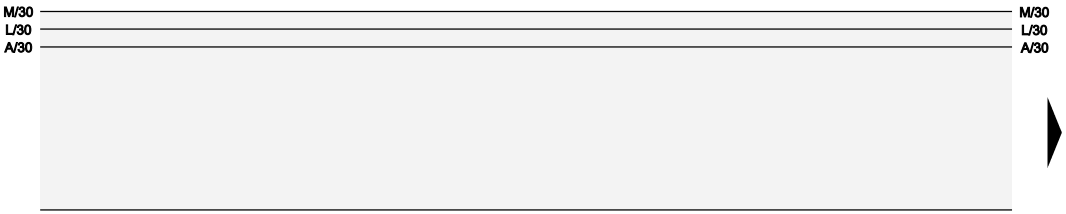
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

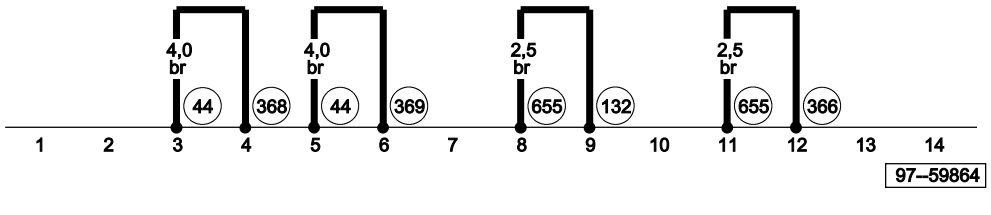
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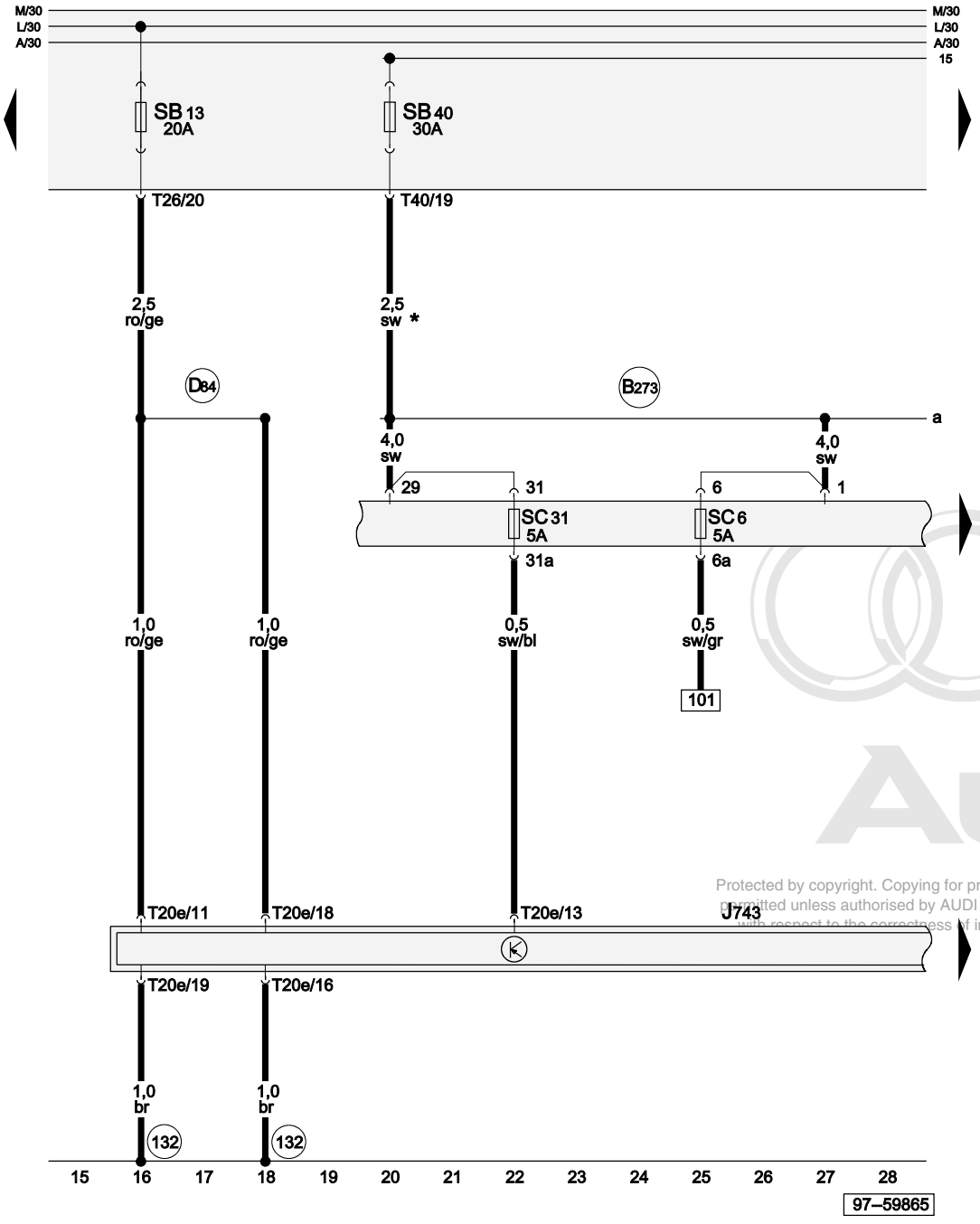
Earth points and earth connections

- 44 Earth point, lower part of left A-pillar
- 132 Earth connection 3, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 655 Earth point, on left headlight

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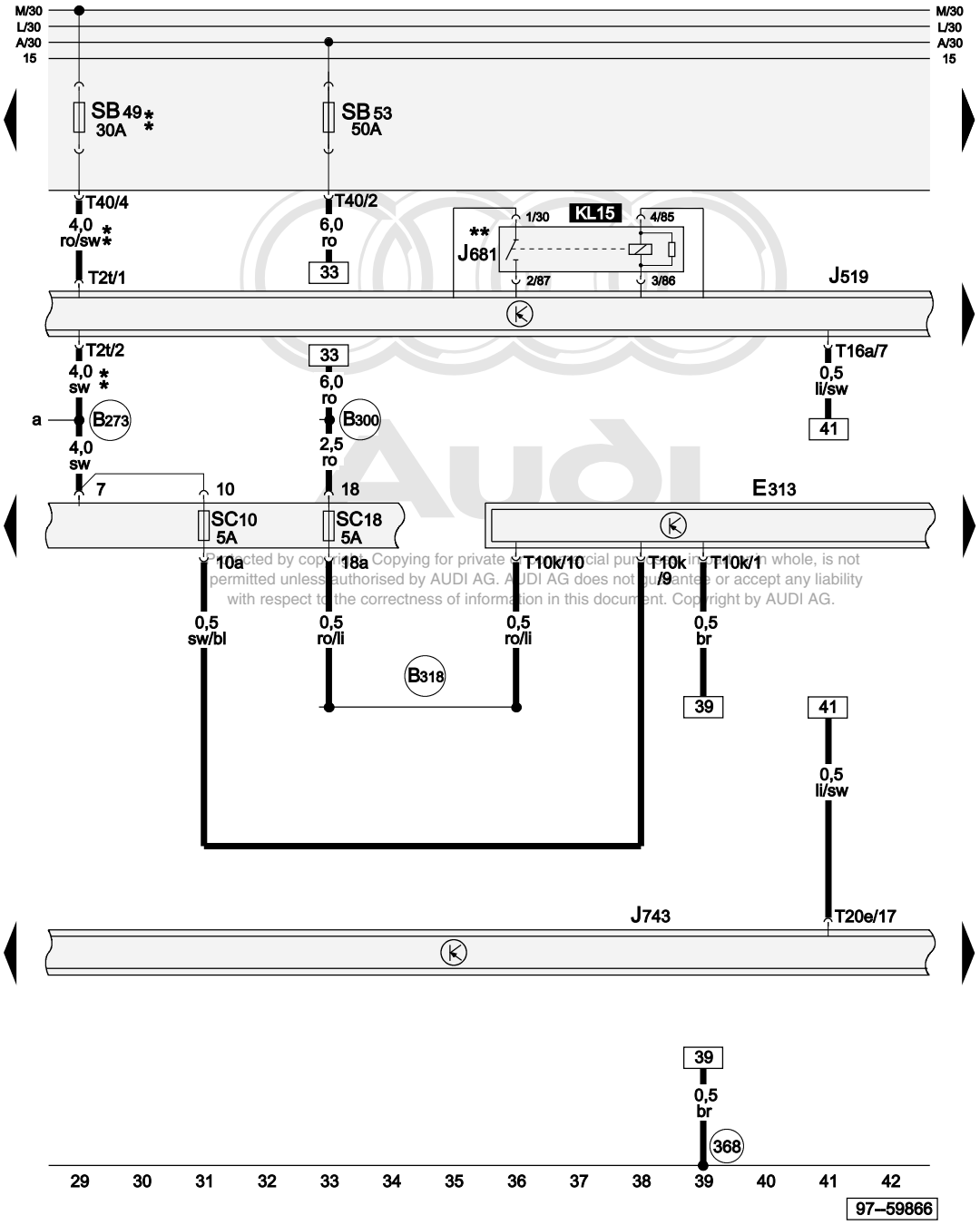


Fuses on fuse holder

J743	Mechatronics for direct shift gearbox
SB13	Fuse 13 on fuse holder B
SB40	Fuse 40 on fuse holder B
SC6	Fuse 6 on fuse holder C
SC31	Fuse 31 on fuse holder C
T20e	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
132	Earth connection 3, in engine compartment wiring harness
B273	Positive connection (15), in main wiring harness
D84	Connection (automatic gearbox), in engine compartment wiring harness
*	for models with battery in engine compartment only

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li	=	purple
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or	=	orange
rs	=	pink

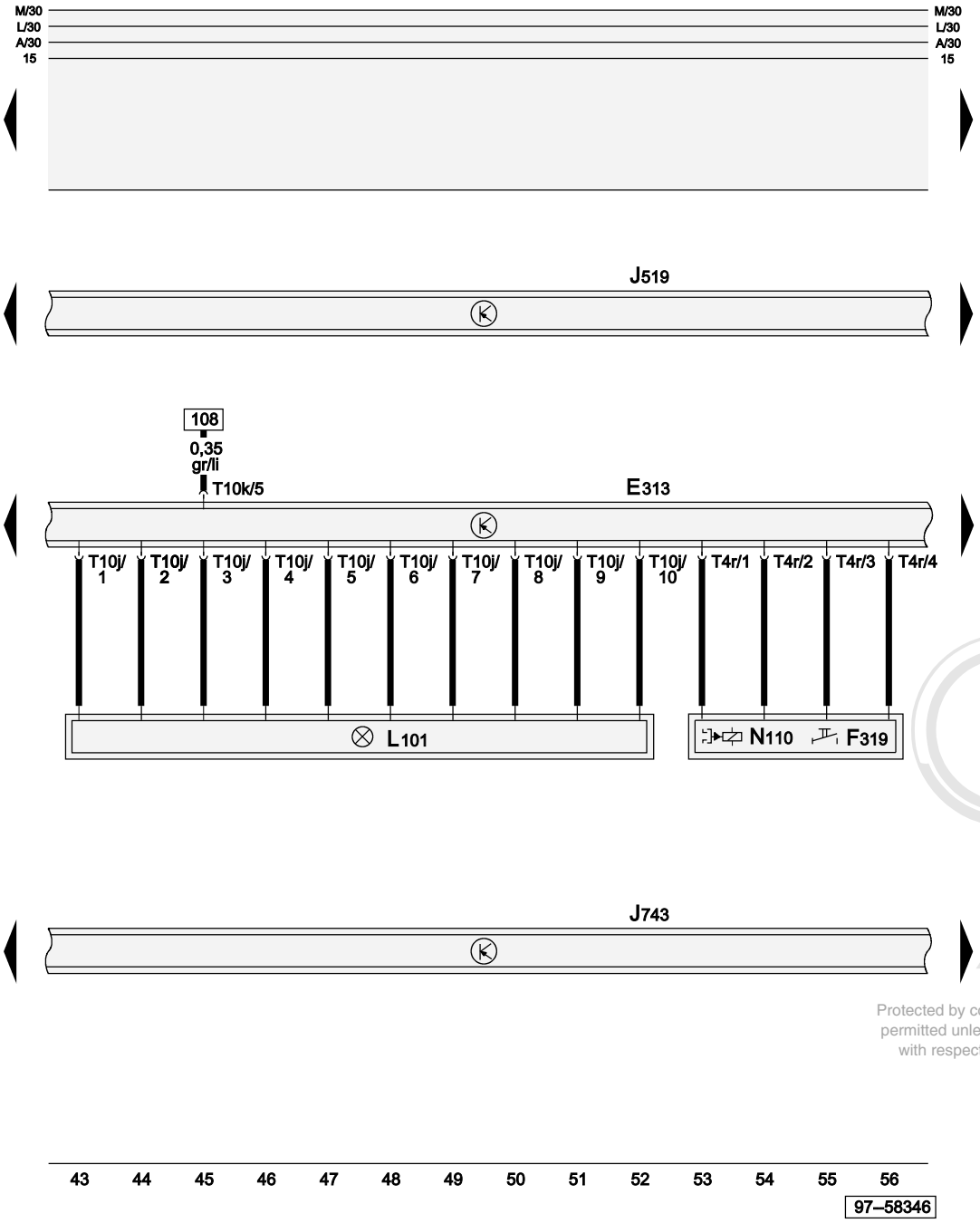


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Selector lever, fuses on fuse holder

E313	Selector lever
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
J743	Mechatronics for direct shift gearbox
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
T2t	2-pin connector, black (connector L)
T10k	10-pin connector, black, on selector lever
T16a	16-pin connector, black (connector E)
T20e	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
B318	Positive connection 4 (30a), in main wiring harness
**	for models with battery in luggage compartment only

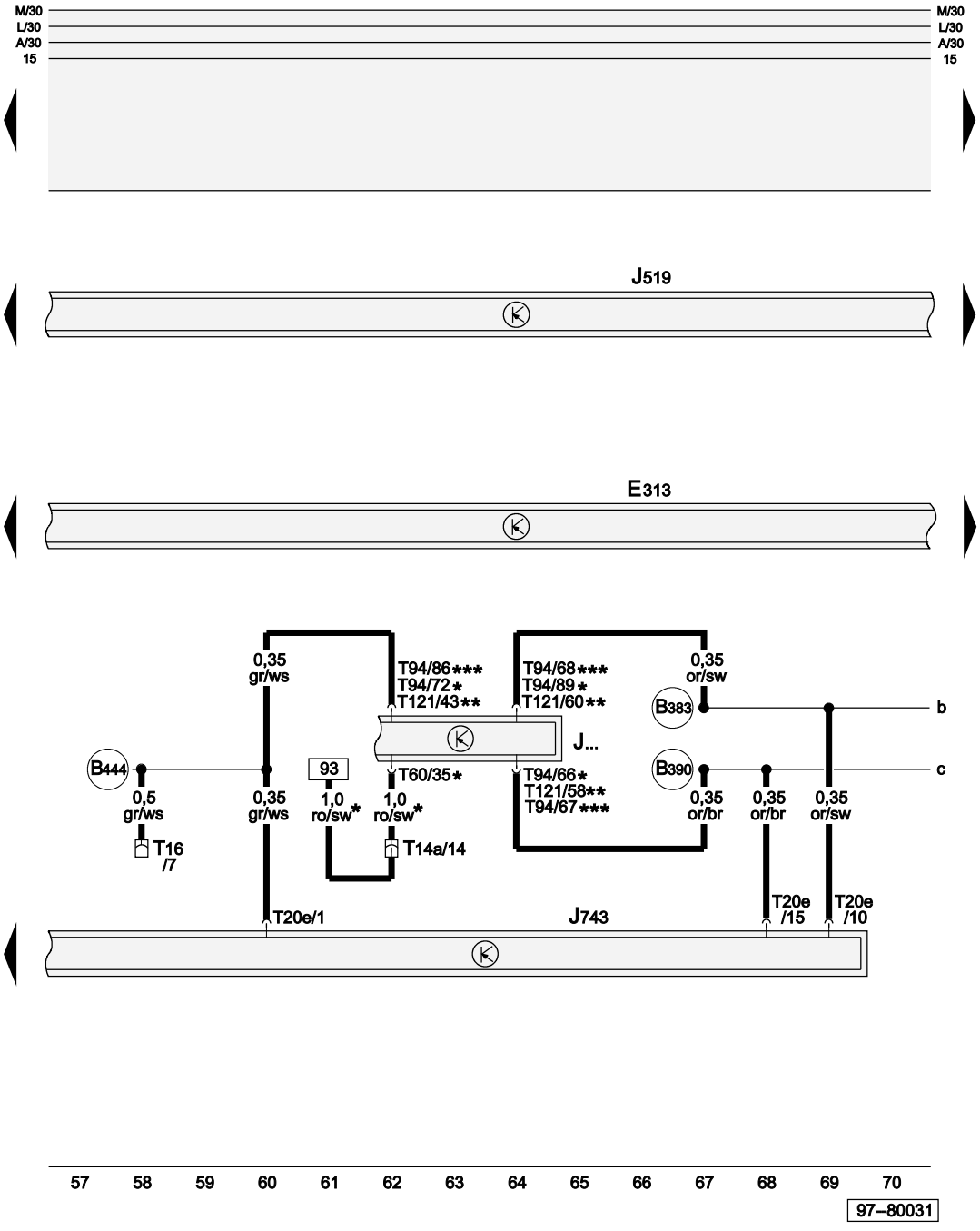


Selector lever, selector lever locked in position P switch, selector lever lock solenoid

E313	Selector lever
F319	Selector lever locked in position P switch
J519	Onboard supply control unit
J743	Mechatronics for direct shift gearbox
L101	Selector lever display illumination bulb
N110	Selector lever lock solenoid
T4r	4-pin connector, on selector lever
T10j	10-pin connector, black, on selector lever
T10k	10-pin connector, black, on selector lever

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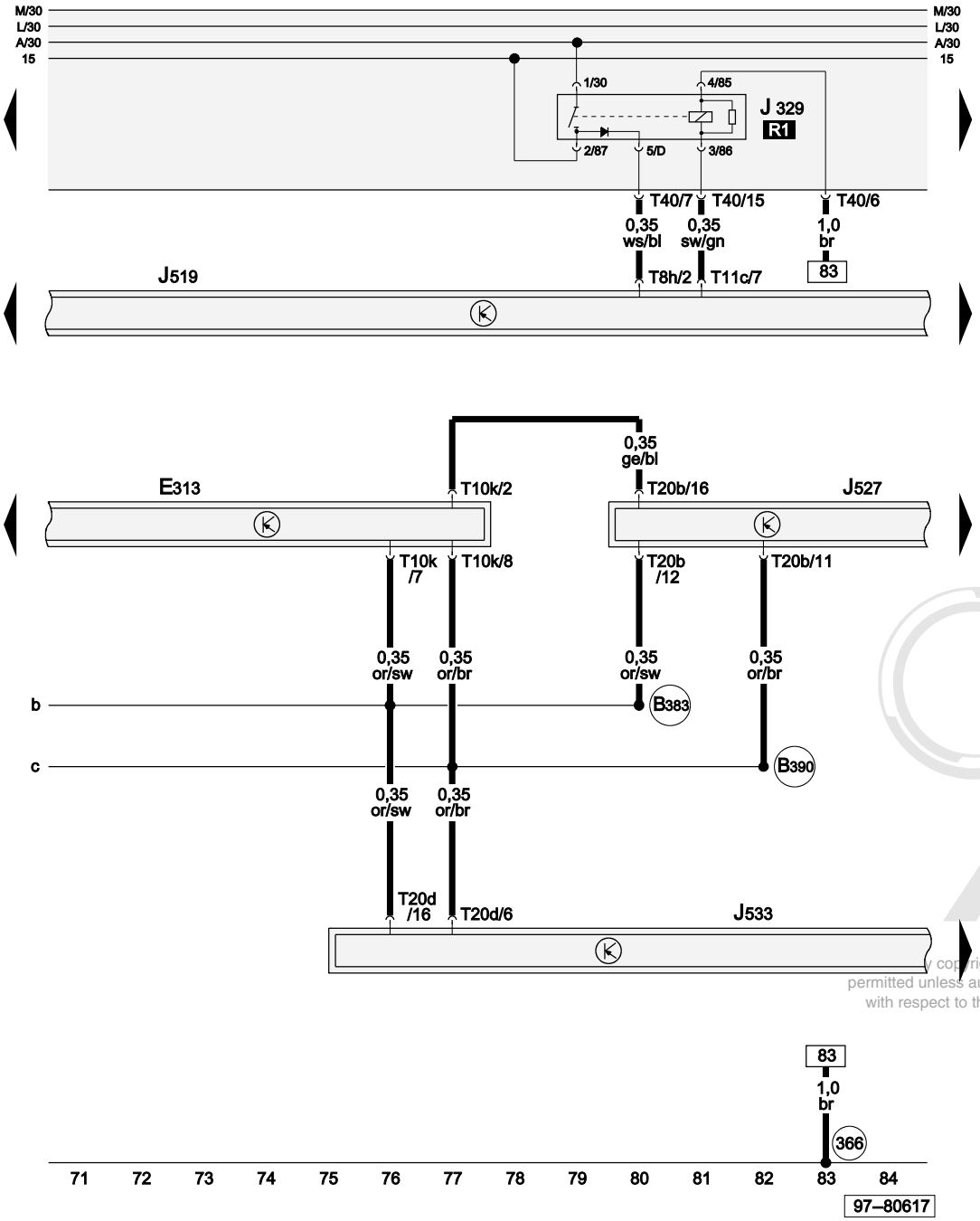


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Drive train CAN bus, K-diagnosis wiring, selector lever

E313	Selector lever
J...	Engine control units
J519	Onboard supply control unit
J743	Mechatronics for direct shift gearbox
T14a	14-pin connector, black, near relay carrier electronics box
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20e	20-pin connector, black (connector A)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with engine codes AZV, BKD only
**	for models with engine codes BDB, BMJ only
***	for models with engine code AXX, BPY only

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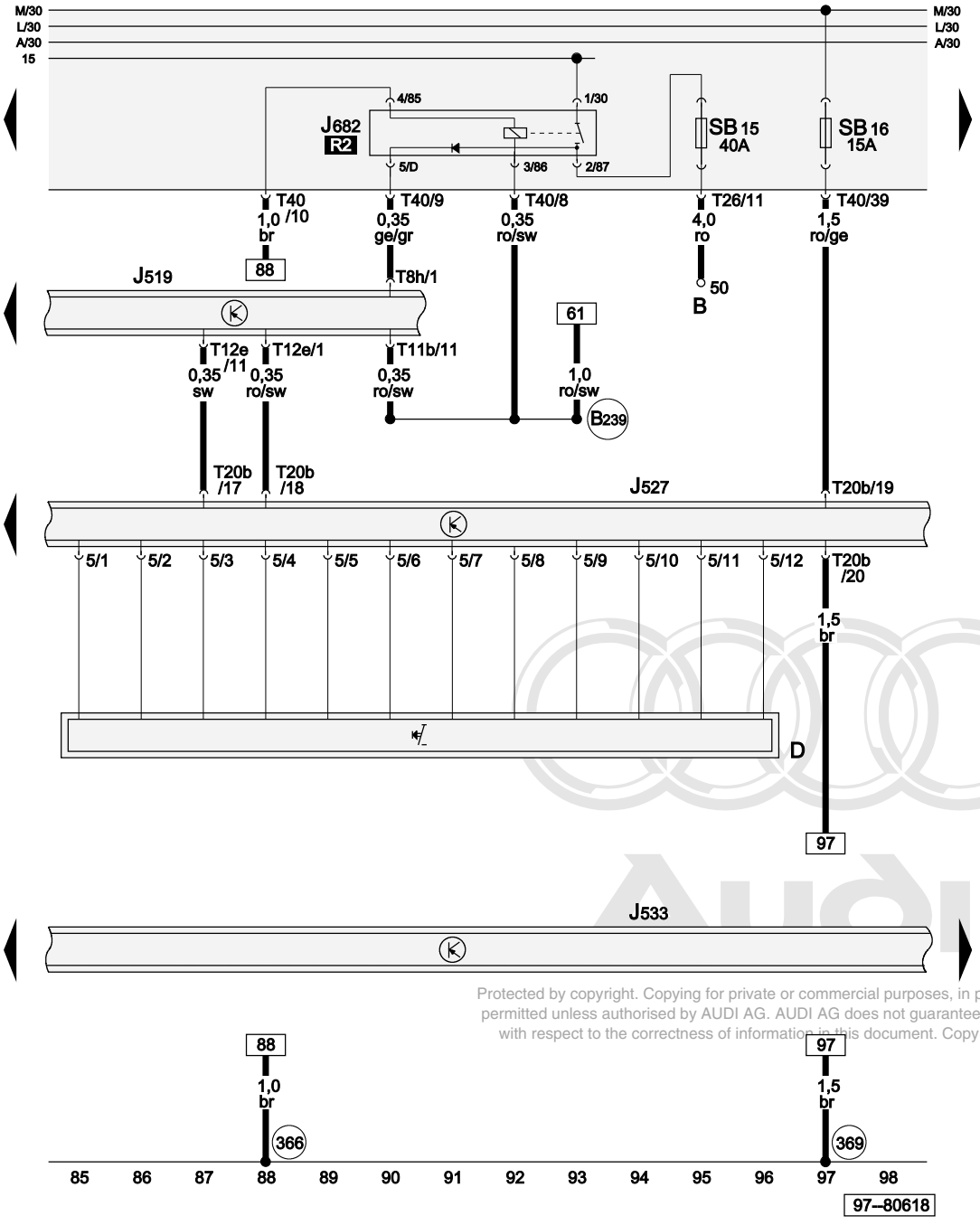
Terminal 15 voltage supply relay, selector lever

E313	Selector lever
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T8h	8-pin connector, black (connector F)
T10k	10-pin connector, black, on selector lever
T11c	11-pin connector, brown (connector D)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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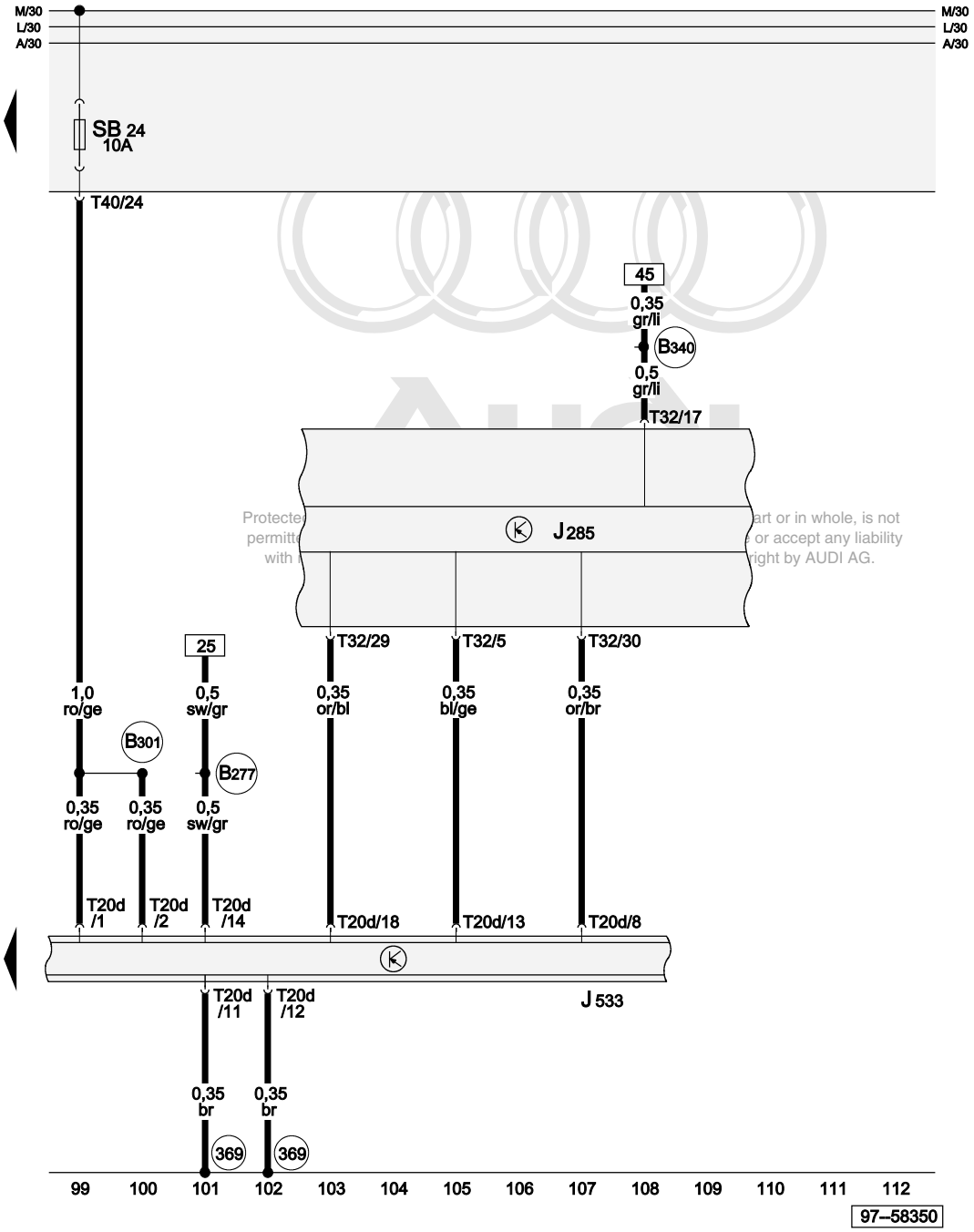


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Ignition/starter switch, terminal 50 voltage supply relay

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder
SB16	Fuse 16 on fuse holder
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box, in engine compartment (connector K)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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gr	=	grey
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Data bus diagnostic interface, control unit in dash panel insert

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B340	Connection 1 (58d), in main wiring harness

ws	=	white
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gn	=	green
bl	=	blue
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Automatic gearbox (09G)

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

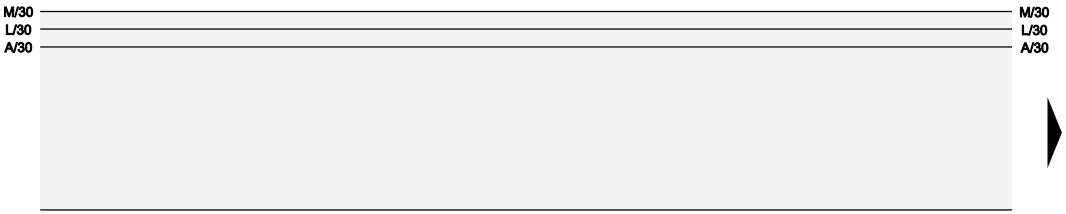
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

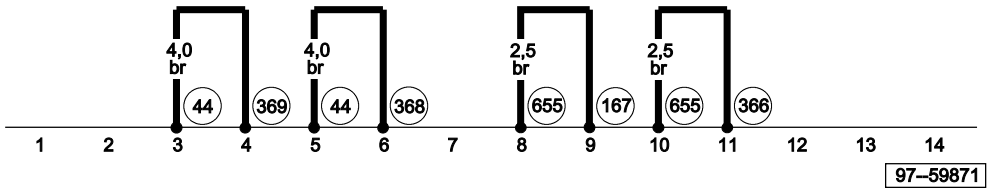
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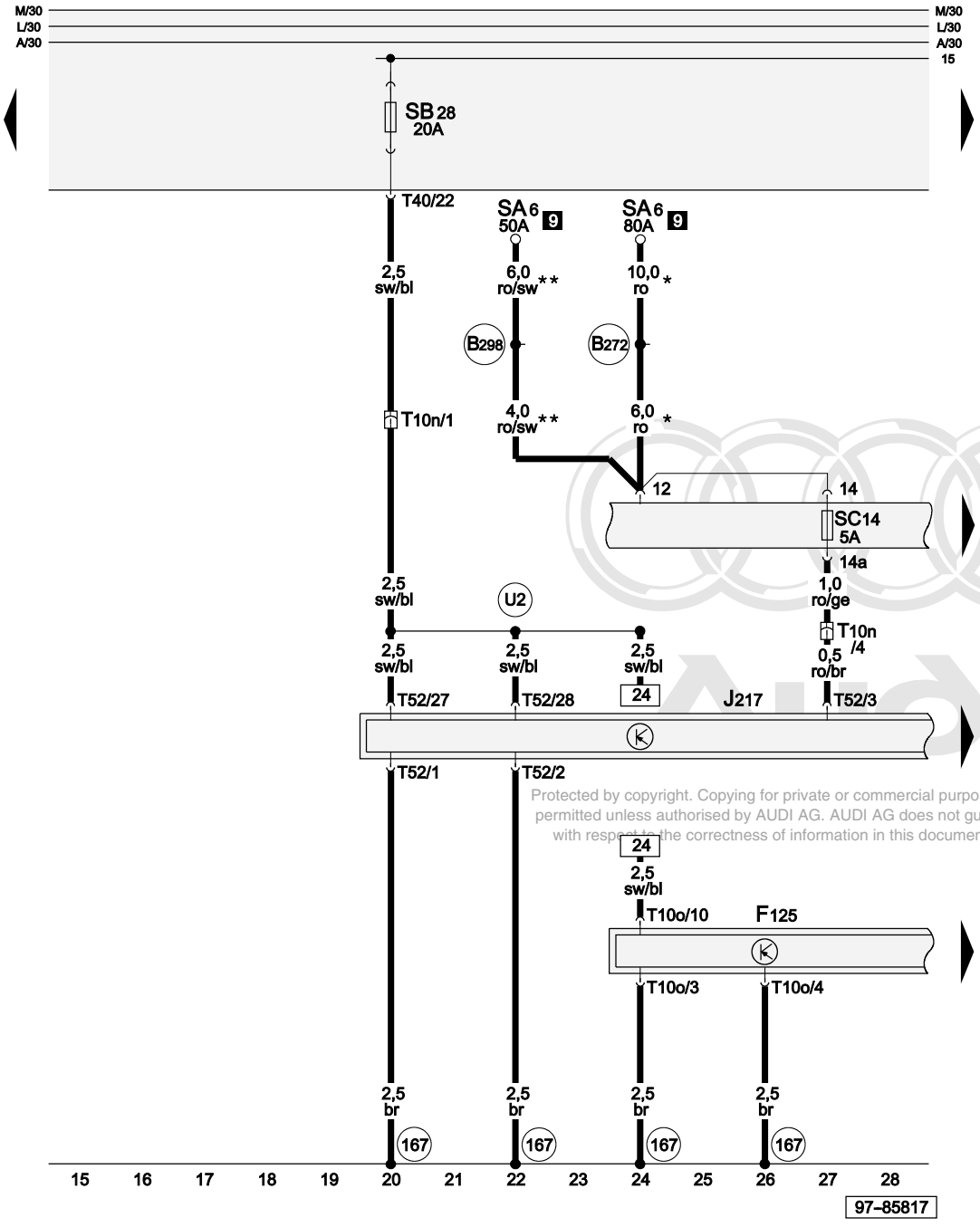
Earth points and earth connections

- 44 Earth point, lower part of left A-pillar
- 167 Earth connection 4, in engine compartment wiring harness
- 366 Earth connection 1, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 655 Earth point, on left headlight

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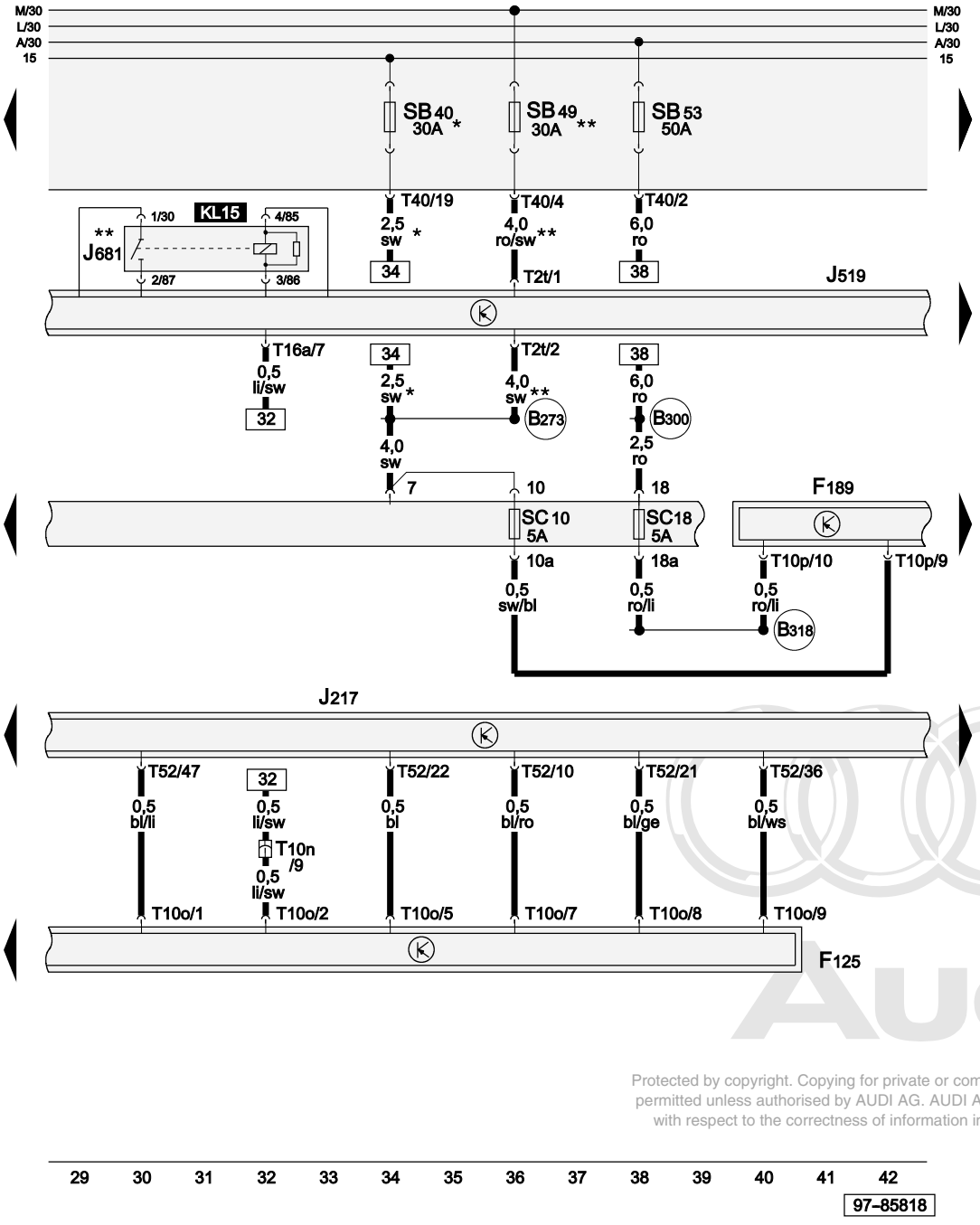


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Fuses, multifunction switch

F125	Multifunction switch
J217	Automatic gearbox control unit
SA6	Fuse 6 on fuse holder A
SB28	Fuse 28 on fuse holder B
SC14	Fuse 14 on fuse holder C
T10n	10-pin connector, black, near longitudinal member, front left
T10o	10-pin connector, black (connector C)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T52	52-pin connector, black (connector A)
167	Earth connection 4, in engine compartment wiring harness
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
U2	Connection 1 (15), in automatic gearbox wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment

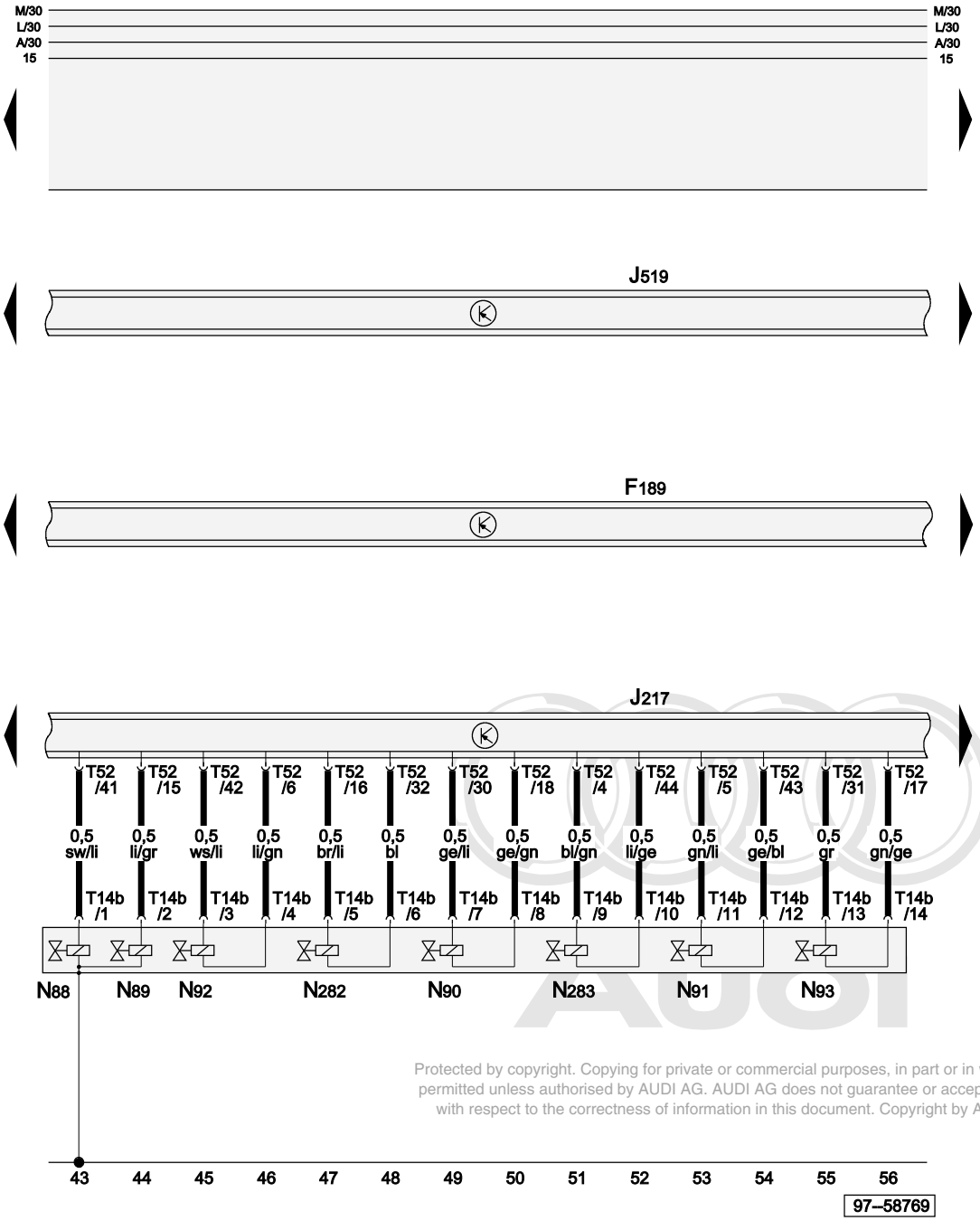


Fuses, multifunction switch, Tiptronic switch

F125	Multifunction switch
F189	Tiptronic switch
J217	Automatic gearbox control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
T2t	2-pin connector, black (connector L)
T10n	10-pin connector, black, near longitudinal member, front left
T10o	10-pin connector, black (connector C)
T10p	10-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T52	52-pin connector, black (connector A)
B273	Positive connection (15), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
B318	Positive connection 4 (30a), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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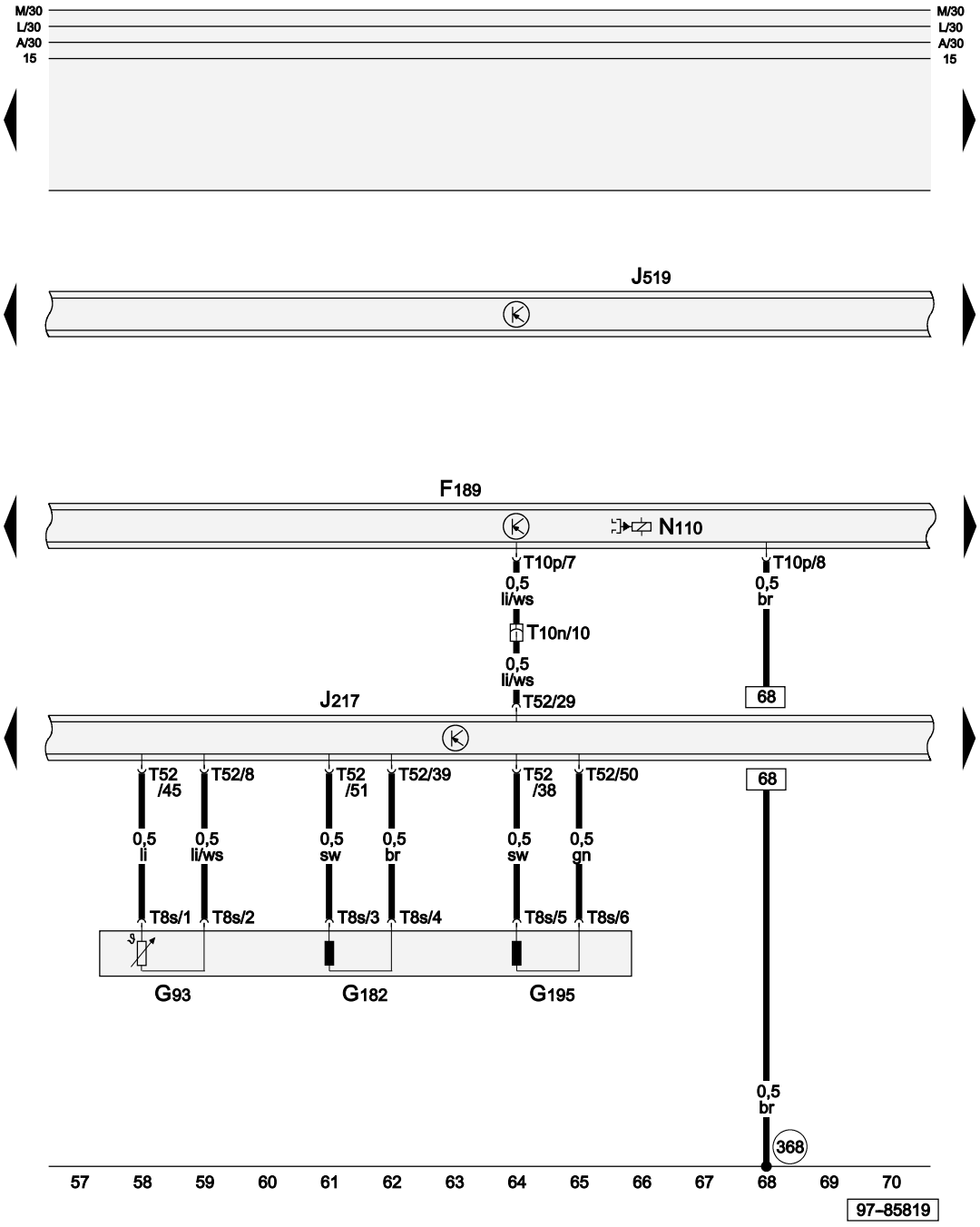


Solenoid valves

F189	Tiptronic switch
J217	Automatic gearbox control unit
J519	Onboard supply control unit
N88	Solenoid valve 1
N89	Solenoid valve 2
N90	Solenoid valve 3
N91	Solenoid valve 4
N92	Solenoid valve 5
N93	Solenoid valve 6
N282	Solenoid valve 9
N283	Solenoid valve 10
T14b	14-pin connector, black (connector A)
T52	52-pin connector, black (connector A)

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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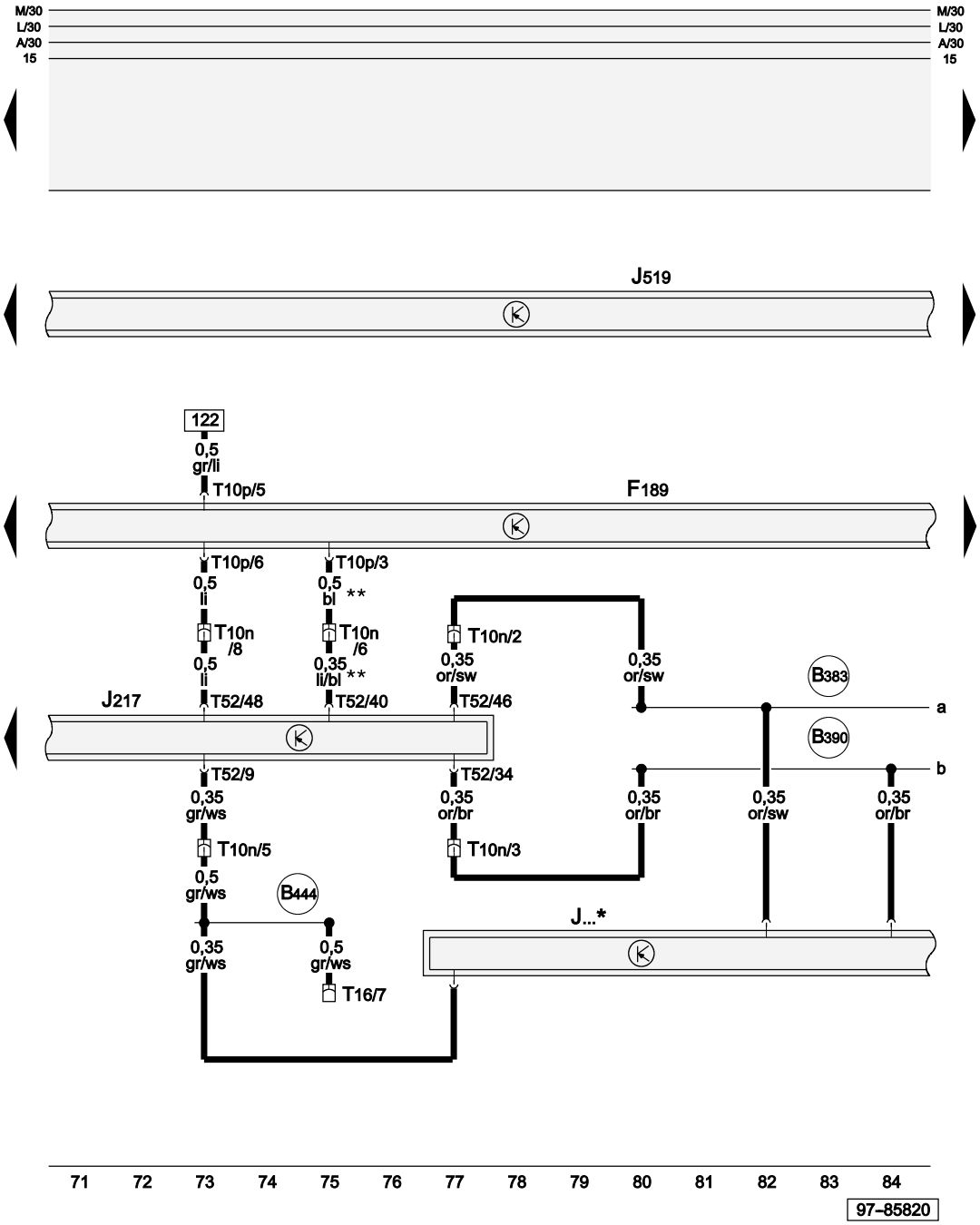


Gearbox input speed sender, gearbox output speed sender

F189	Tiptronic switch
G93	Gearbox oil temperature sender
G182	Gearbox input speed sender
G195	Gearbox output speed sender
J217	Automatic gearbox control unit
J519	Onboard supply control unit
N110	Selector lever lock solenoid
T8s	8-pin connector, black (connector B)
T10n	10-pin connector, black, near longitudinal member, front left
T10p	10-pin connector, black (connector A)
T52	52-pin connector, black (connector A)
(368)	Earth connection 3, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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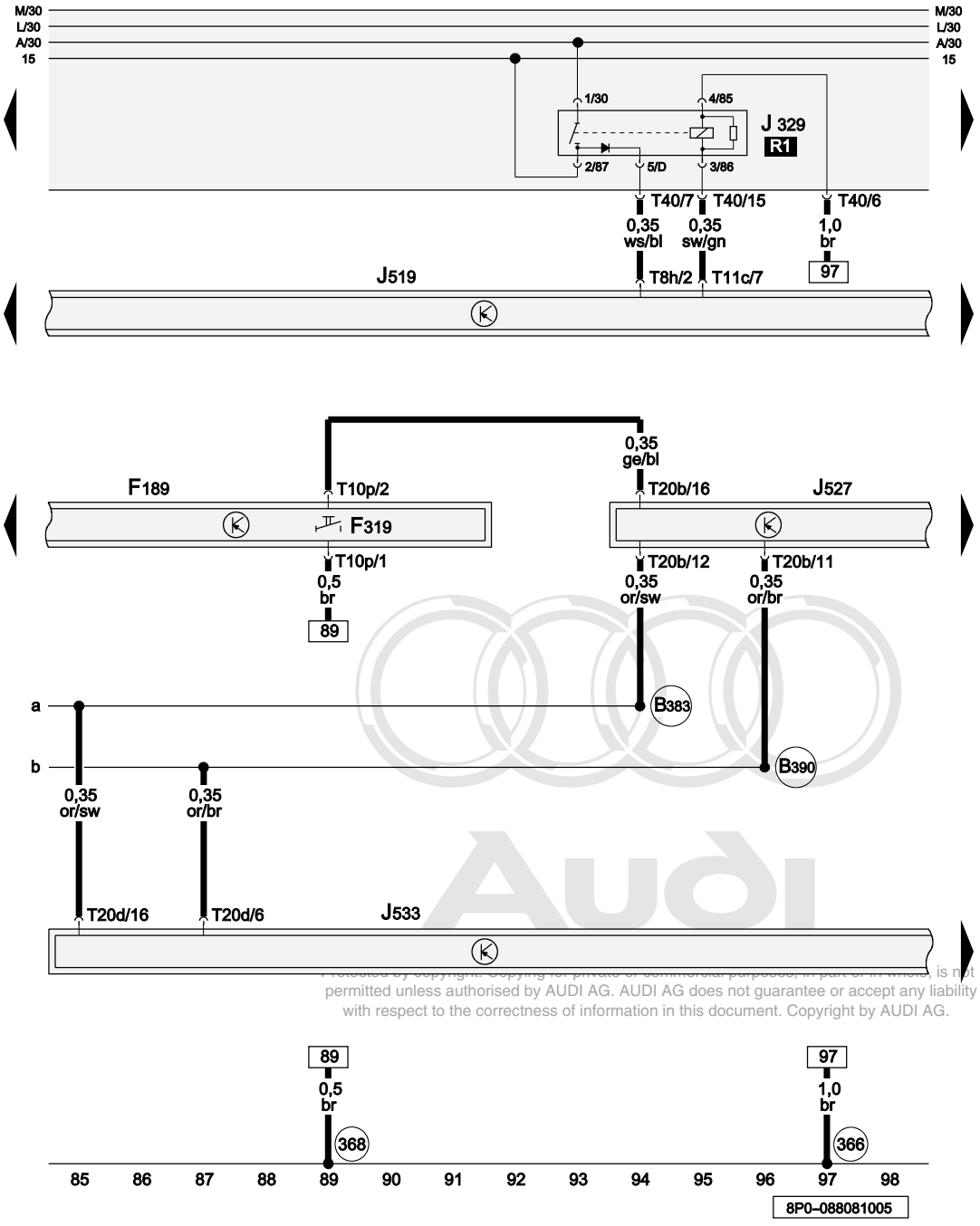


Drive train CAN bus, K-diagnosis wiring

F189	Tiptronic switch
J...	Engine control units
J217	Automatic gearbox control unit
J519	Onboard supply control unit
T10n	10-pin connector, black, near longitudinal member, front left
T10p	10-pin connector, black (connector A)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T52	52-pin connector, black (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	⇒ applicable engine Current Flow Diagram
**	applicable from November 2004

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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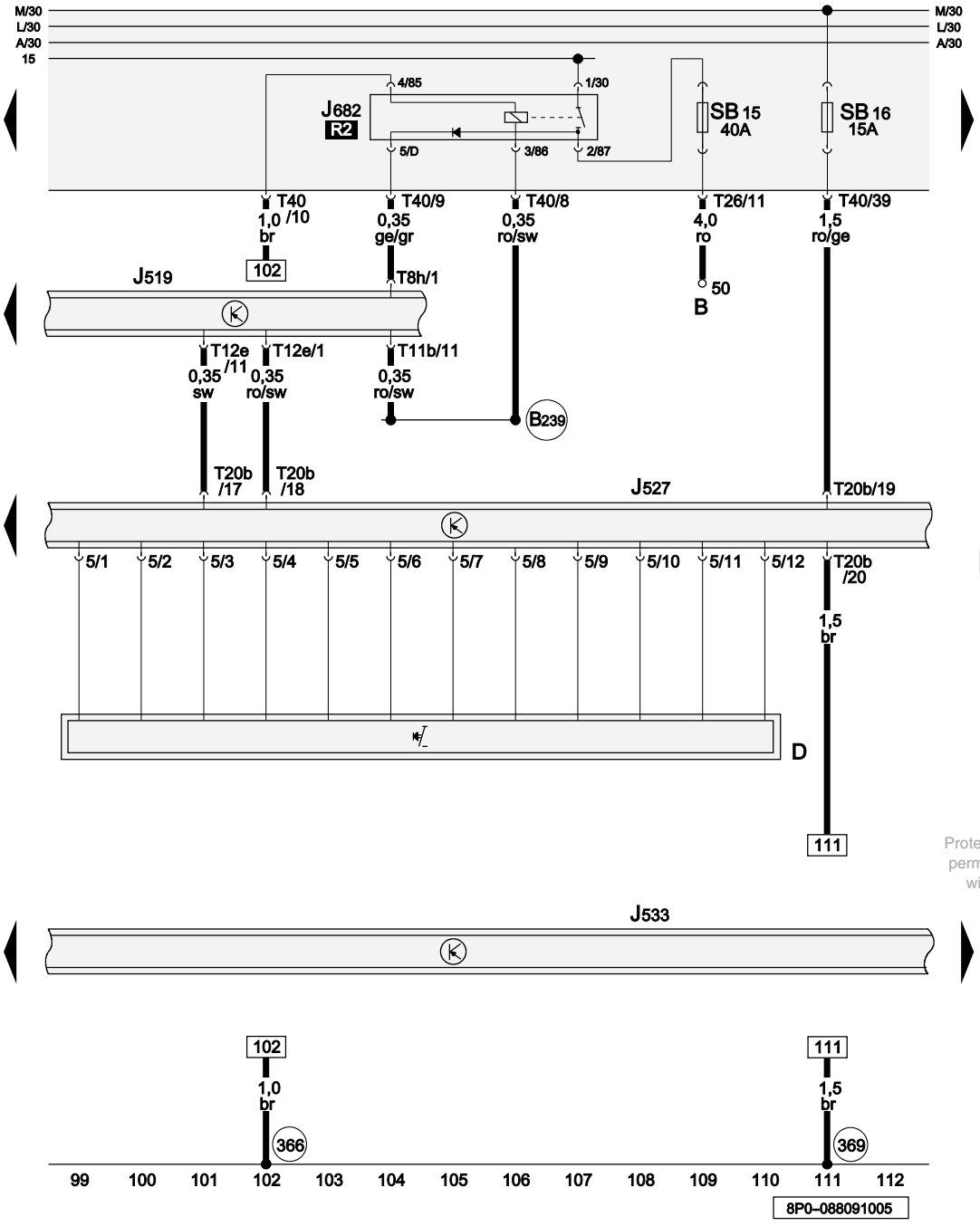


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Selector lever locked in position P switch, terminal 15 voltage supply relay

F189	Tiptronic switch
F319	Selector lever locked in position P switch
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T8h	8-pin connector, black (connector F)
T10p	10-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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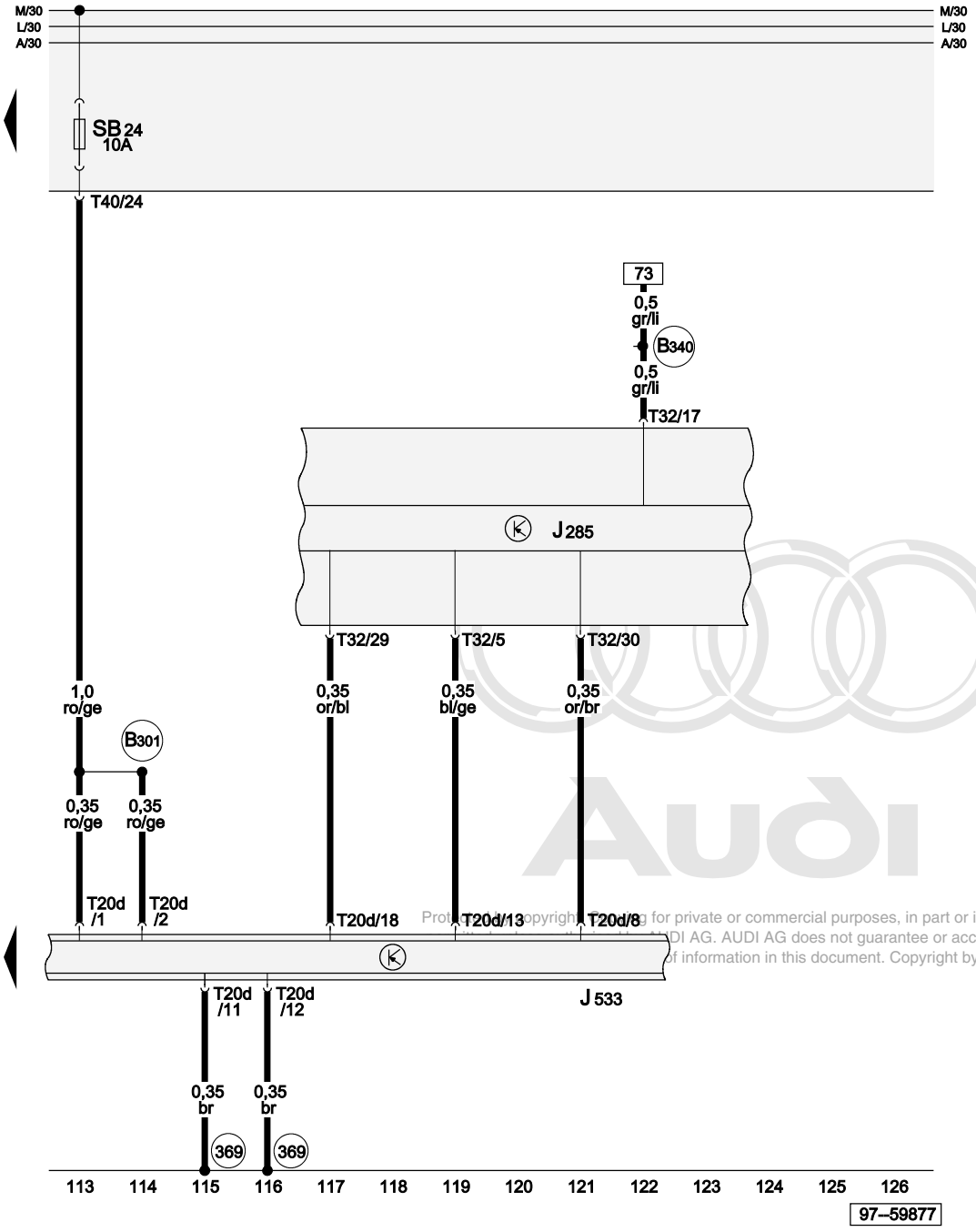


Terminal 50 voltage supply relay, ignition/starter switch

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J682	Terminal 50 voltage supply relay
SB15	Fuse 15 on fuse holder B
SB16	Fuse 16 on fuse holder B
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness

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Data bus diagnostic interface, control unit in dash panel insert

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
SB24	Fuse 24 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black on electronics box, in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B340	Connection 1 (58d), in main wiring harness

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Data bus wires (CAN bus, LIN bus)

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

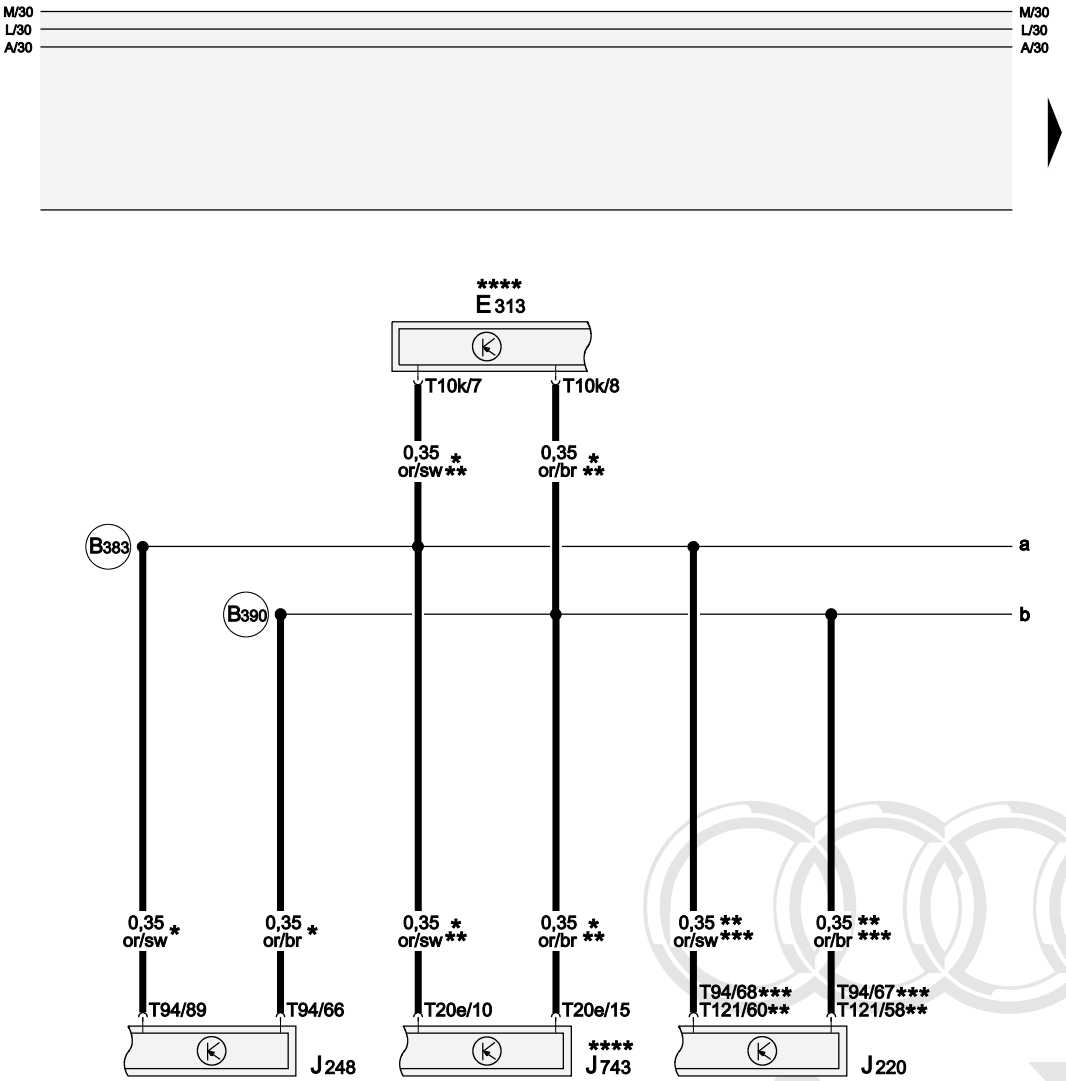
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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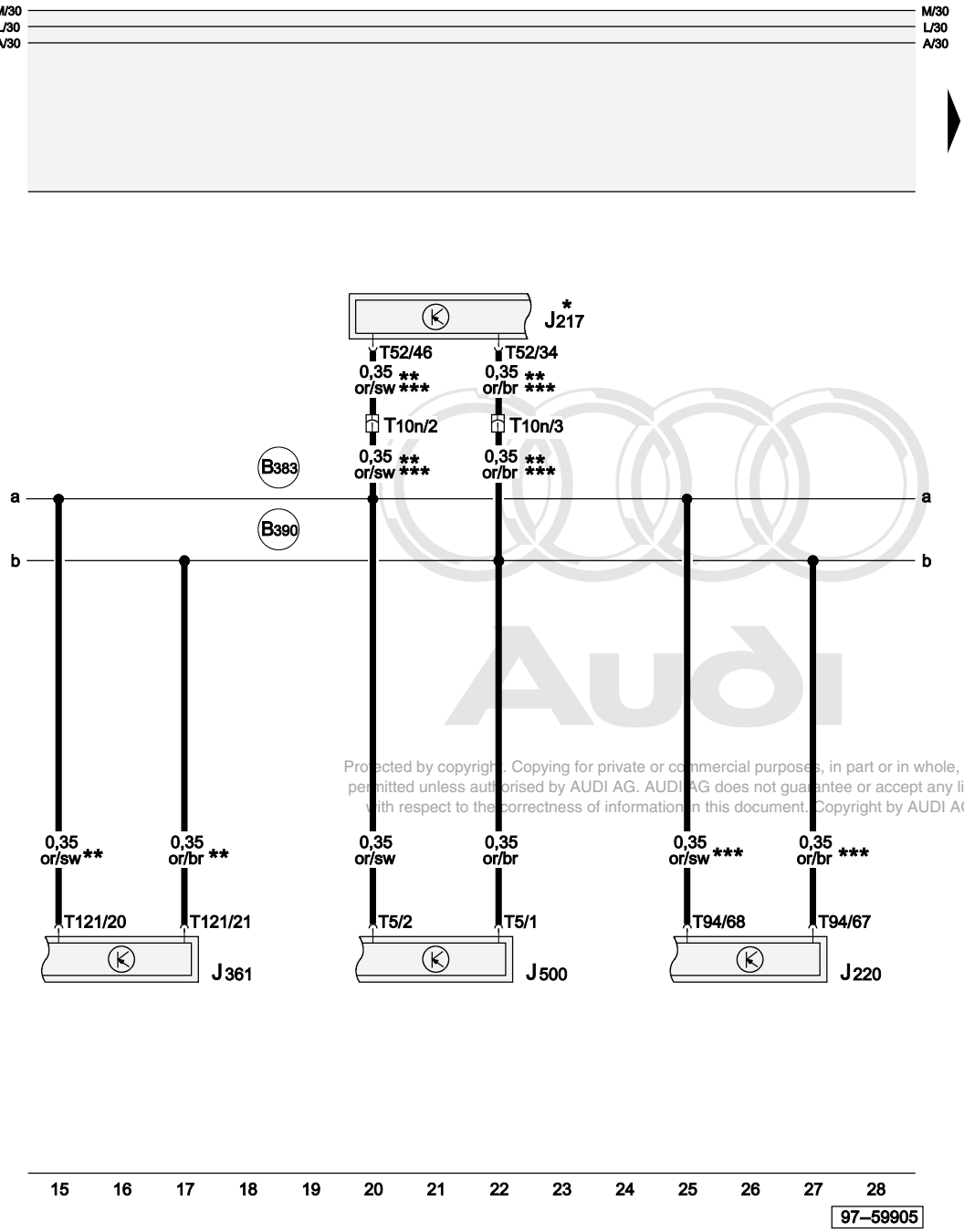


Drive train CAN bus

E313	Selector lever
J220	Motronic control unit
J248	Diesel direct injection system control unit
J743	Mechatronics for direct shift gearbox
T10k	10-pin connector, black, on selector lever
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	for models with engine codes AZV, BKC, BKD only
**	for models with engine codes BDB, BMJ only
***	for models with engine code AXX, BPY only
****	for models with direct shift gearbox (02E) only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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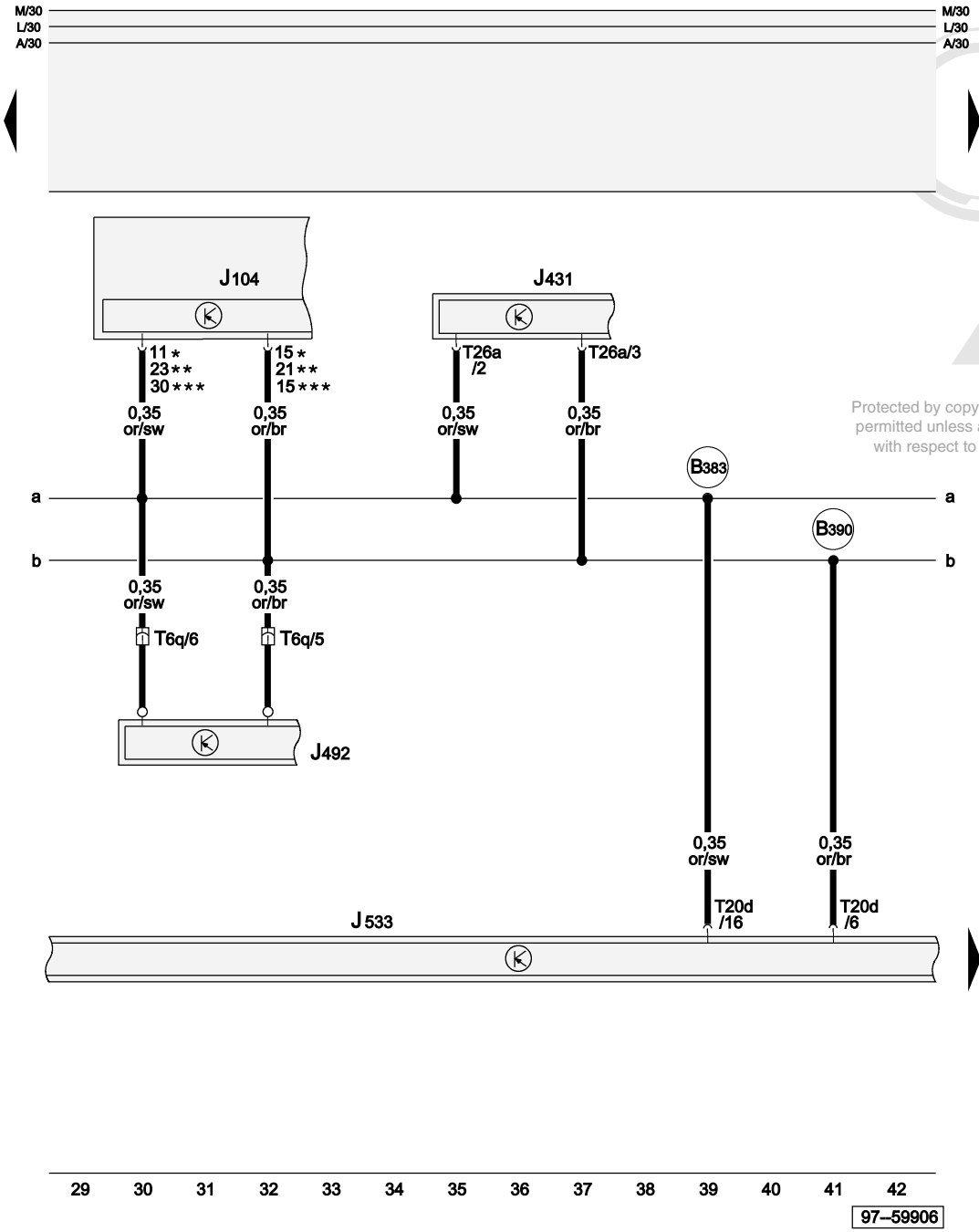


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Drive train CAN bus

J217	Automatic gearbox control unit
J220	Motronic control unit
J361	Simos control unit
J500	Power steering control unit
T5	5-pin connector, white (connector C)
T10n	10-pin connector, black, near longitudinal member, front left
T52	52-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	for models with automatic gearbox (09G) only
**	for models with engine codes BGU only
***	for models with engine codes BLP, BLF, BLX, BHD, BMB, BLY, BLR only

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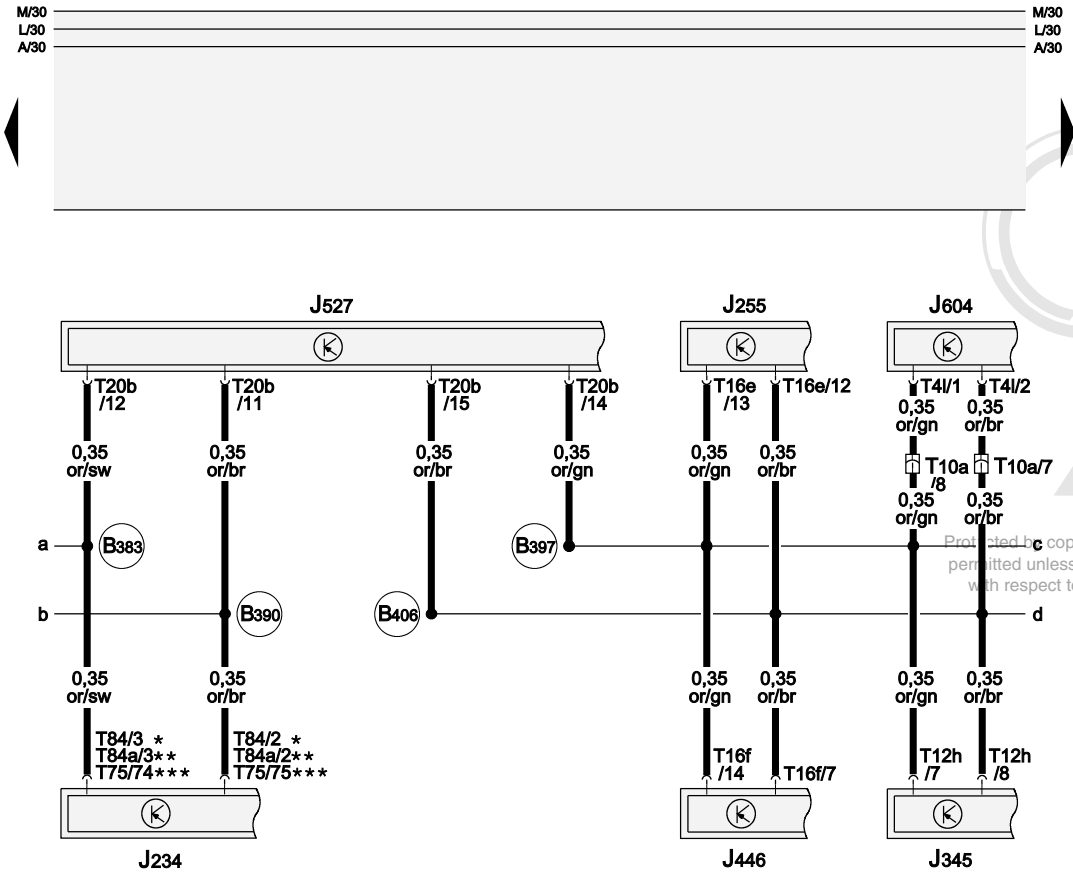


Drive train CAN bus

J104	ABS control unit
J431	Headlight range control, control unit
J492	Four-wheel drive control unit
J533	Data bus diagnostic interface
T6q	6-pin connector, black, near fuel gauge sender 2
T20d	20-pin connector, yellow (connector A)
T26a	26-pin connector, black (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	for models with anti-lock brake system (ABS) MK60 and direct shift gearbox (02E) or manual gearbox only
**	for models with anti-lock brake system (ABS) MK70 only
***	for models with anti-lock brake system (ABS) MK60 and automatic gearbox (09G) only

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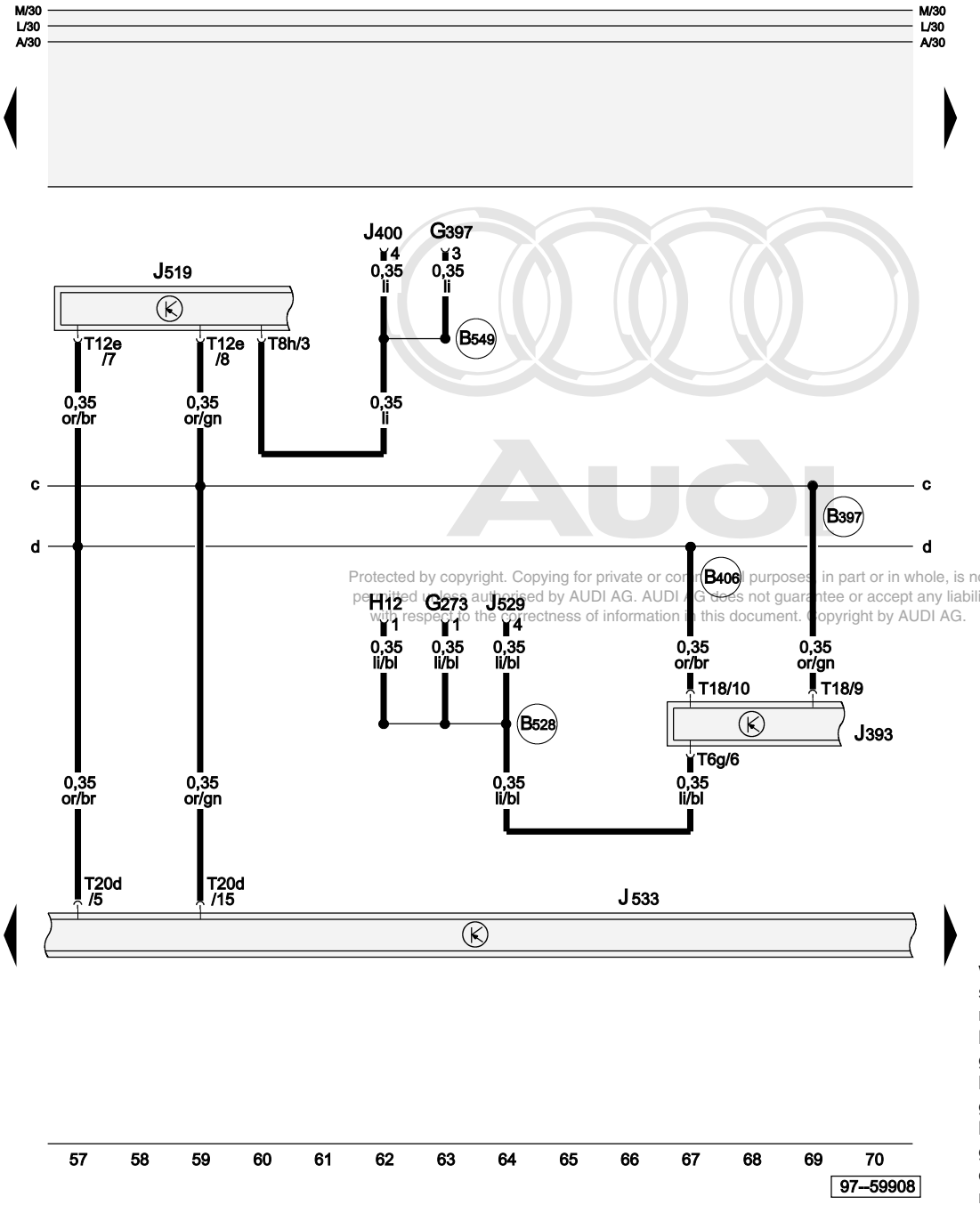


Convenience CAN bus

J234	Airbag control unit
J255	Climatronic control unit
J345	Trailer detector control unit
J446	Parking aid control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J604	Auxiliary air heater control unit
T4l	4-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T12h	12-pin connector, red (connector A)
T16e	16-pin connector, brown (connector C)
T16f	16-pin connector, brown, on parking aid control unit
T20b	20-pin connector, black (connector A)
T84	84-pin connector, yellow (connector A)
T84a	84-pin connector, yellow (connector A)
T75	75-pin connector, yellow (connector locking green)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with curtain airbag (connector locking blue) only
**	for models without curtain airbag (connector locking green) only
***	for models with 5-door models only

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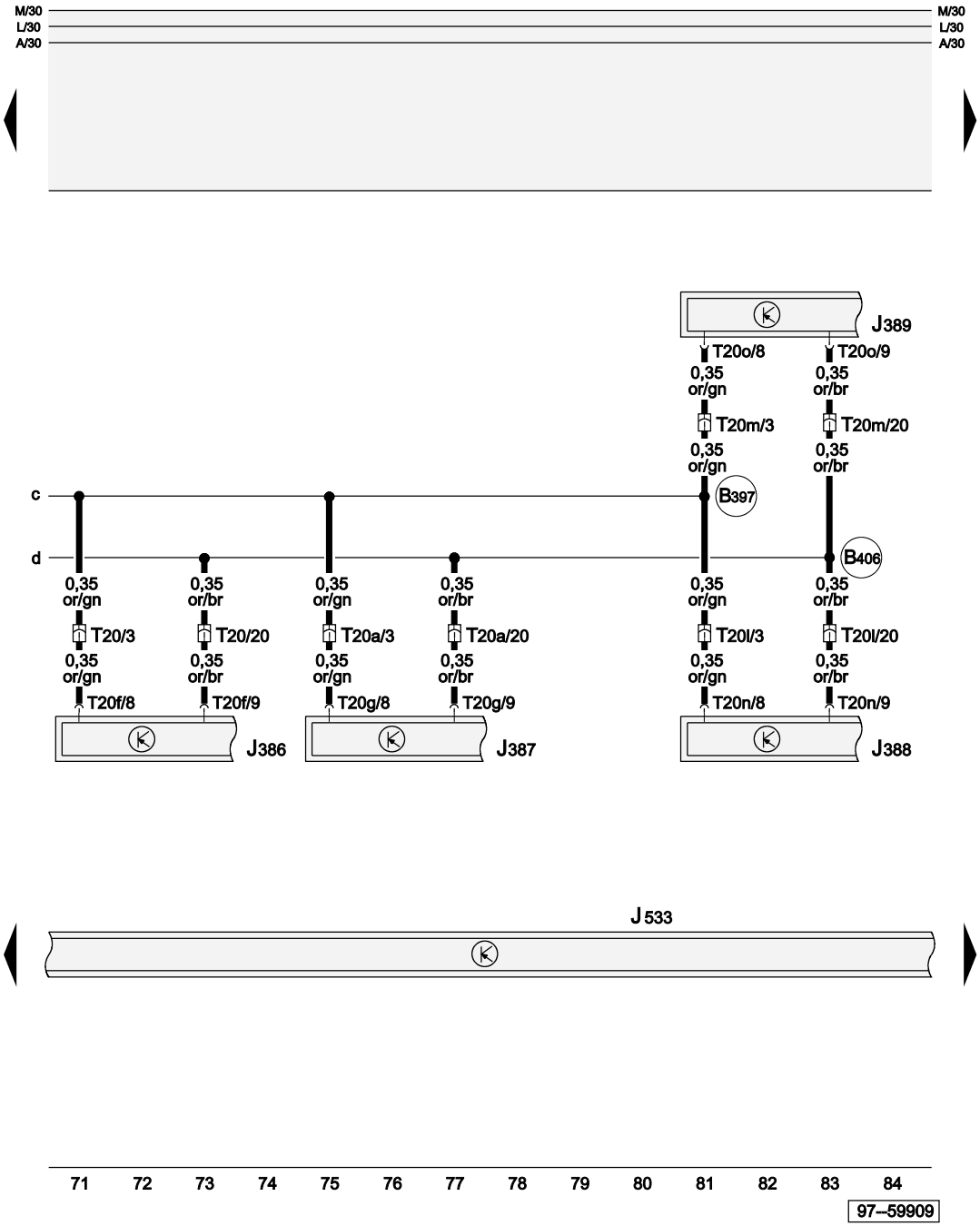


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Convenience CAN bus, LIN bus

G273	Interior monitoring sensor
G397	Rain and light detector sensor
H12	Alarm horn
J519	Onboard supply control unit
J393	Convenience system central control unit
J400	Wiper motor control unit
J529	Anti-theft and tilt system control unit
J533	Data bus diagnostic interface
T6g	6-pin connector, black (connector E)
T8h	8-pin connector, black (connector F)
T12e	12-pin connector, black (connector G)
T18	18-pin connector, brown (connector A)
T20d	20-pin connector, yellow (connector A)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B528	Connection 1 (LIN bus), in main wiring harness
B549	Connection 2 (LIN bus), in main wiring harness

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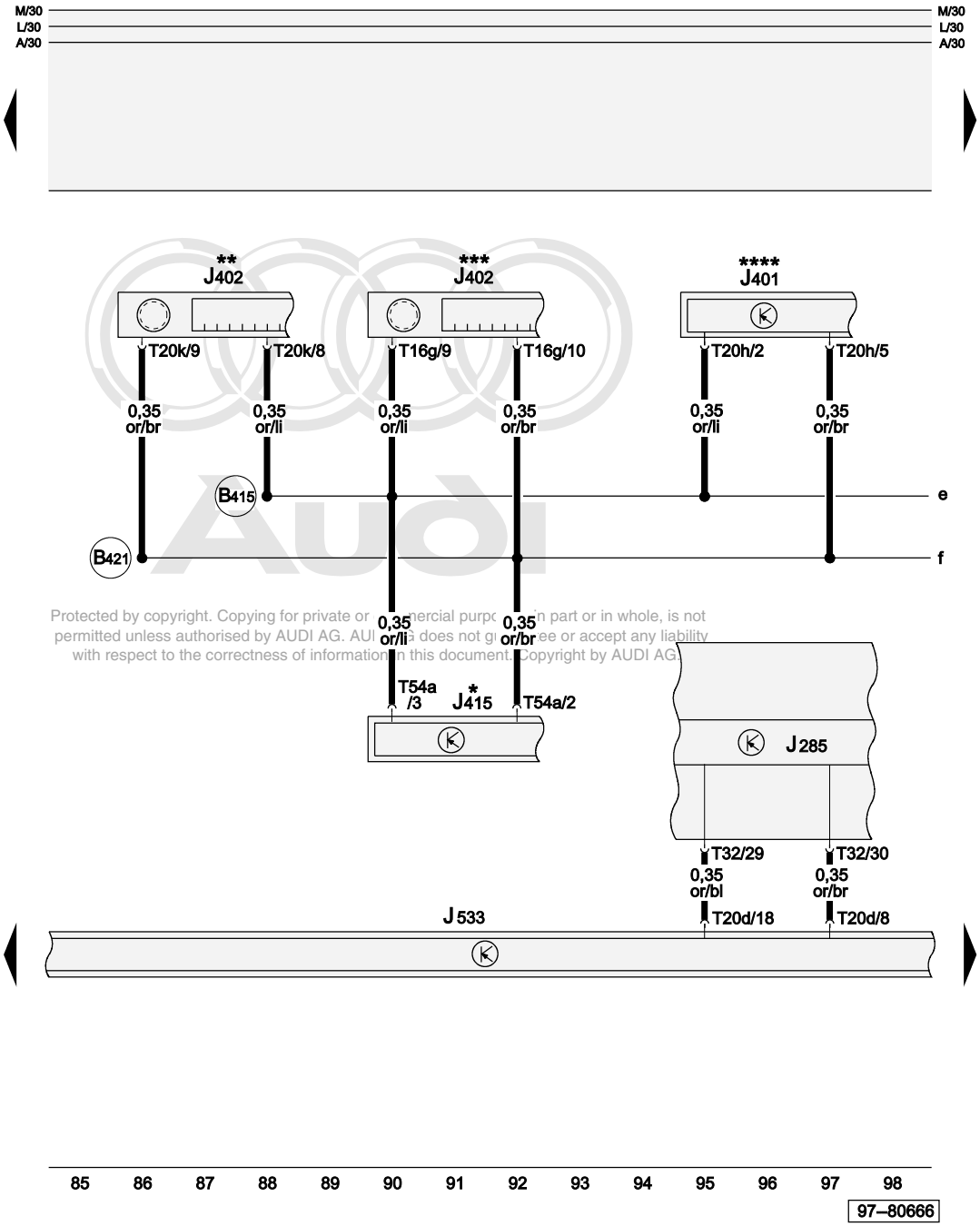


Convenience CAN bus

J386	Driver side door control unit
J387	Front passenger side door control unit
J388	Rear left door control unit
J389	Rear right door control unit
J533	Data bus diagnostic interface
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
T20l	20-pin connector, black, door, B pillar, left
T20m	20-pin connector, black, door, B pillar, right
T20n	20-pin connector, black (connector A)
T20o	20-pin connector, black (connector A)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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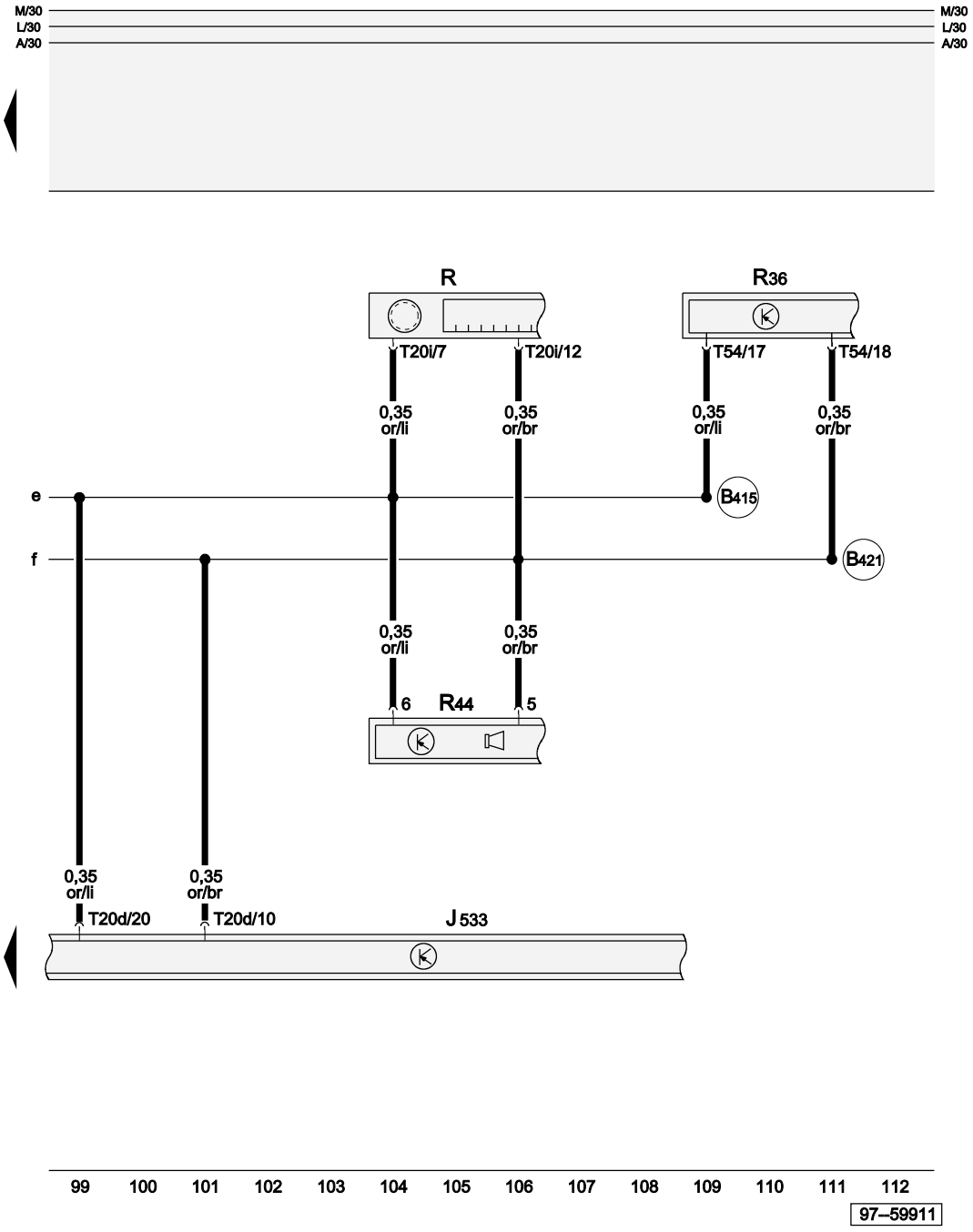


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Infotainment CAN bus

J285	Control unit in dash panel insert
J401	Navigation system with CD drive control unit
J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
J533	Data bus diagnostic interface
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T20h	20-pin connector, black (connector C)
T20k	20-pin connector, black (connector C)
T32	32-pin connector, blue (connector A)
T54a	54-pin connector, black (connector A)
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	for models with TV tuner only
**	for models with radio navigation system (models for Japan) only
***	for models with radio navigation system RNS-E only
****	for models with navigation system NS-LOW only

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Infotainment CAN bus

J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
R44	Amplifier with bass loudspeaker, on left in luggage compartment
T20d	20-pin connector, yellow (connector A)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

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Steering wheel with tiptronic buttons

From model year 2004

Notes:

Information on

- Position of relays and fuses
- Multi-pin connectors
- Control units and relays
- Earth connections

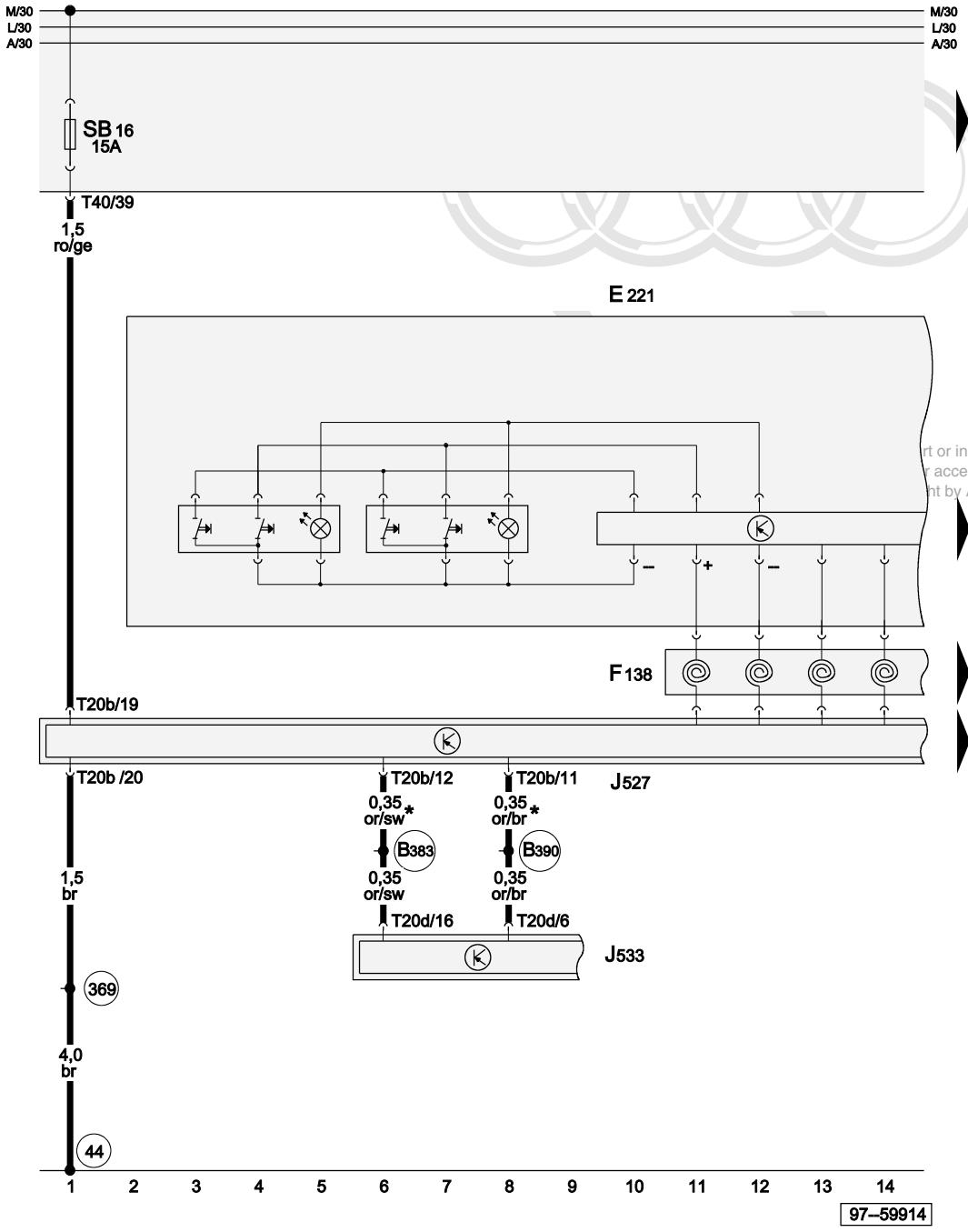
⇒ Overview of Fitting Locations

Information on

- Fault Finding Programmes

⇒ Guided Fault Finding

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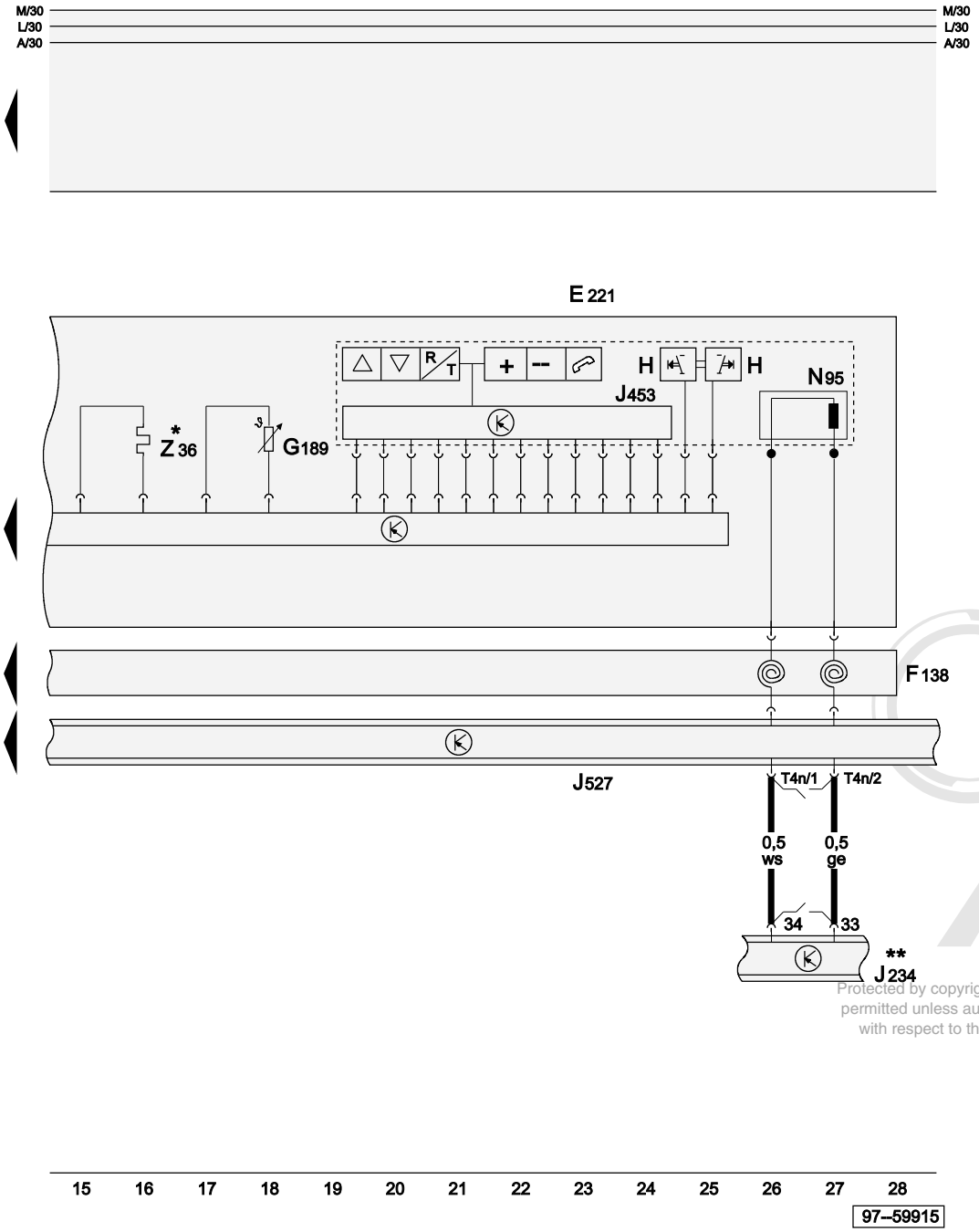


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Voltage supply, tiptronic switch in steering wheel

E221	Operating unit in steering wheel
F138	Airbag coil connector and return spring with slip ring
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB16	Fuse 16 on fuse box
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
44	Earth point, A pillar, bottom left
369	Earth connection 4, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	⇒ Applicable Current Flow Diagram: Automatic gearbox



Overheating sensor, horn plate, airbag igniter (driver's side)

E221	Operating unit in steering wheel
F138	Airbag coil connector and return spring with slip ring
G189	Overheating sensor
H	Horn plate
J234	Airbag control unit
J453	Multi-function steering wheel control unit
J527	Steering column electronics control unit
N95	Airbag igniter, driver's side
T4n	4-pin connector, yellow (connector B)
Z36	Heated steering wheel
*	Only applies to models with heated steering wheel
**	⇒ Applicable Current Flow Diagram: Airbags
<fo:exter	Short circuit bridge becomes effective when connector is unplugged.
nal-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/kurzbr_l.png" content-width="20pt" scaling="uniform"/>	

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Steering wheel with tiptronic paddle levers

From model year 2004

Notes:

Information on

- Position of relays and fuses
- Multi-pin connectors
- Control units and relays
- Earth connections

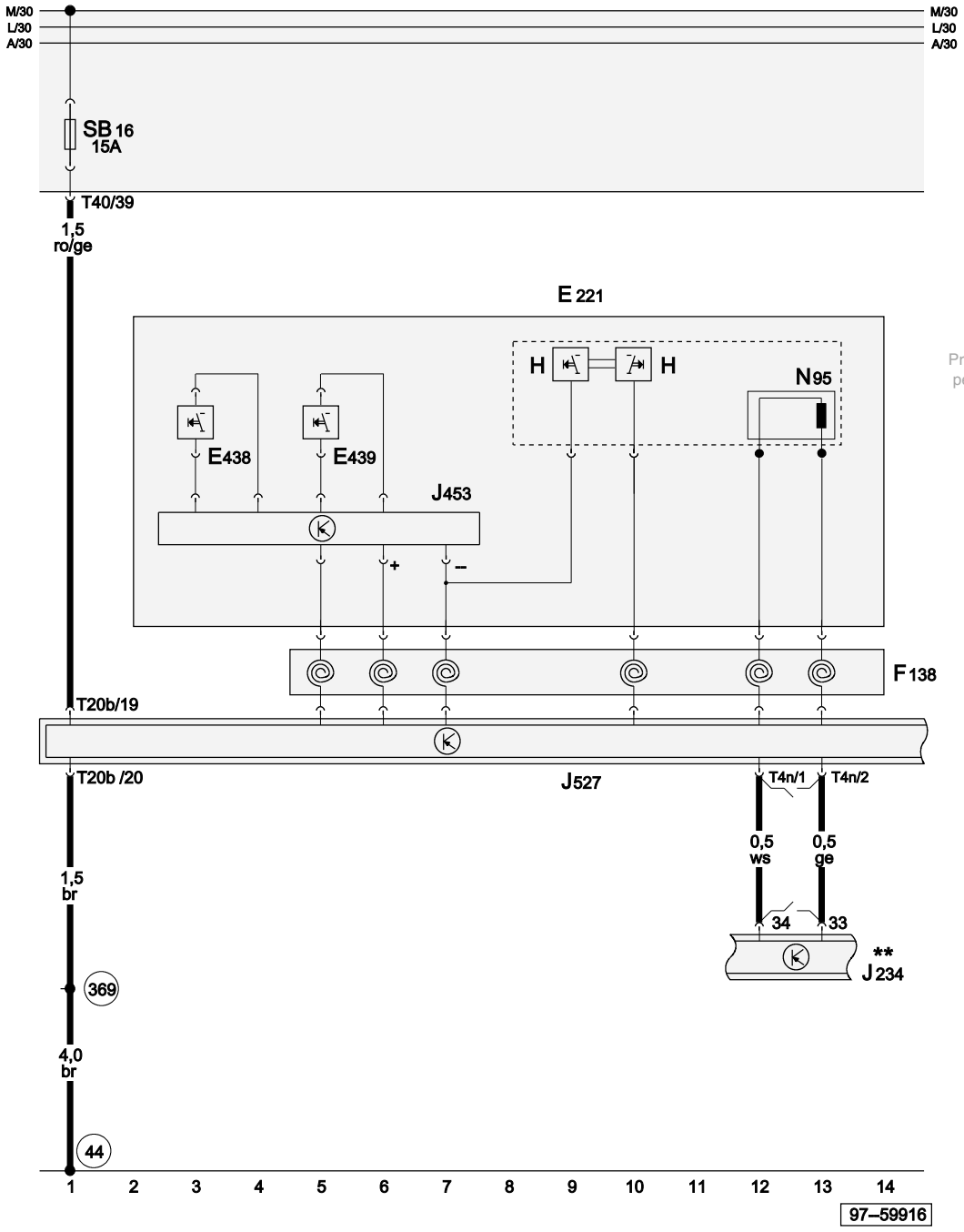
⇒ Overview of Fitting Locations

Information on

- Fault Finding Programmes

⇒ Guided Fault Finding

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Voltage supply, tiptronic switch in steering wheel

E221	Operating unit in steering wheel
E438	Tiptronic switch (shift up) in steering wheel
E439	Tiptronic switch (shift down) in steering wheel
F138	Airbag coil connector and return spring with slip ring
H	Horn plate
J234	Airbag control unit
J453	Multi-function steering wheel control unit
J527	Steering column electronics control unit
N95	Airbag igniter, driver's side
SB16	Fuse 16 on fuse box
T4n	4-pin connector, yellow (connector B)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, at electronics box, engine compartment (connector J)
44	Earth point, A pillar, bottom left
369	Earth connection 4, in main wiring harness
**	⇒ Applicable Current Flow Diagram: Airbags

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Short circuit bridge becomes effective when connector is unplugged.

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Airbags for driver and front passenger with belt tensioners and side airbag (5-door models)

⇒ **with US equipment**

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

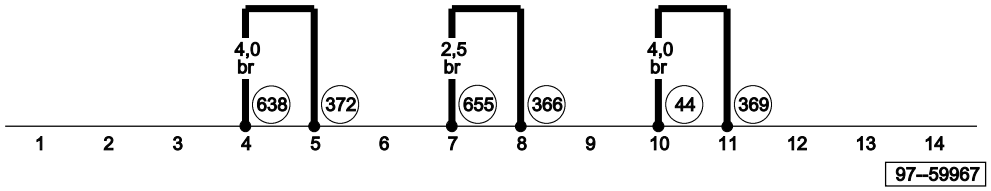
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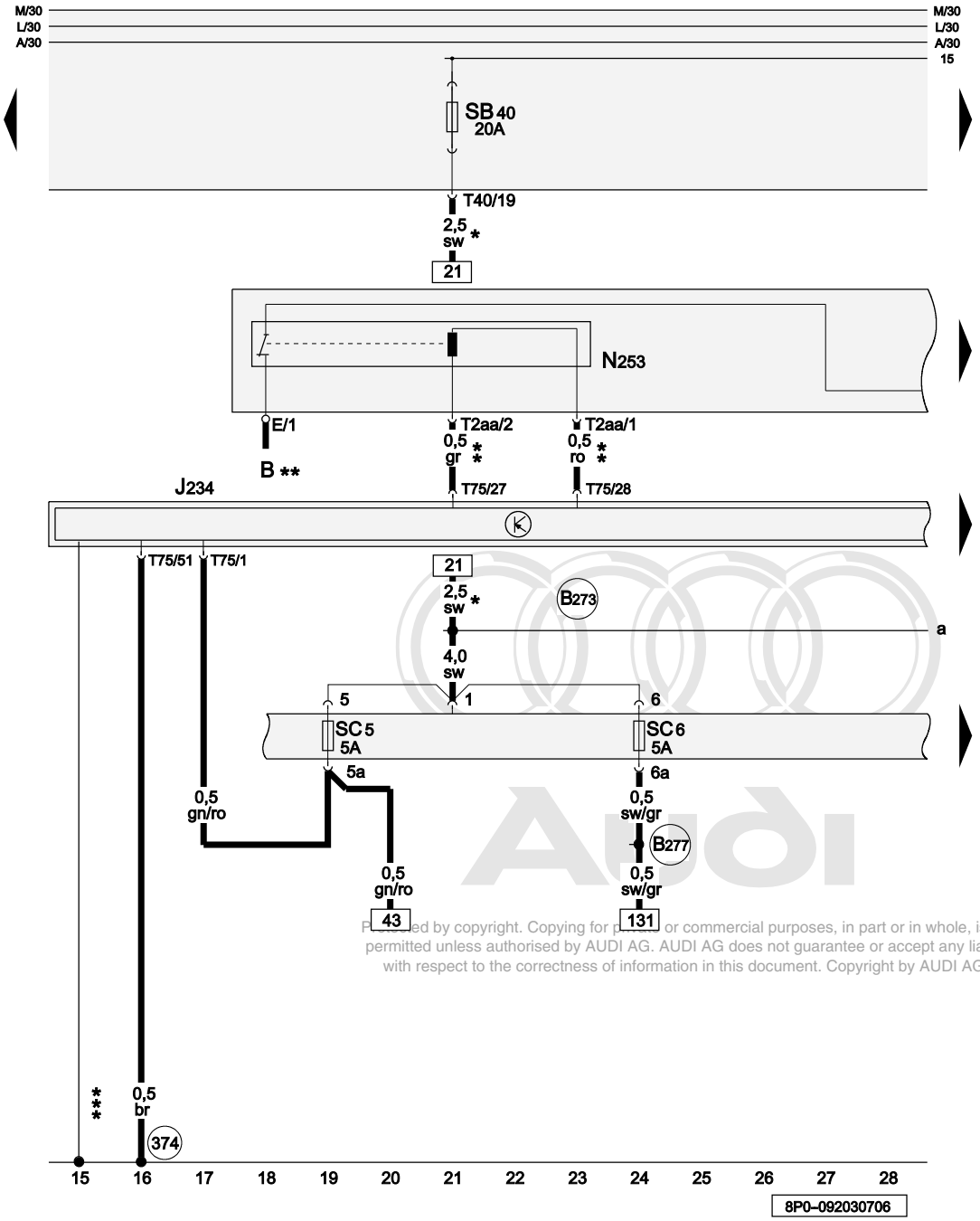
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Earth connections, earth points

- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 638 Earth point, right A-pillar
- 655 Earth point, on left headlight



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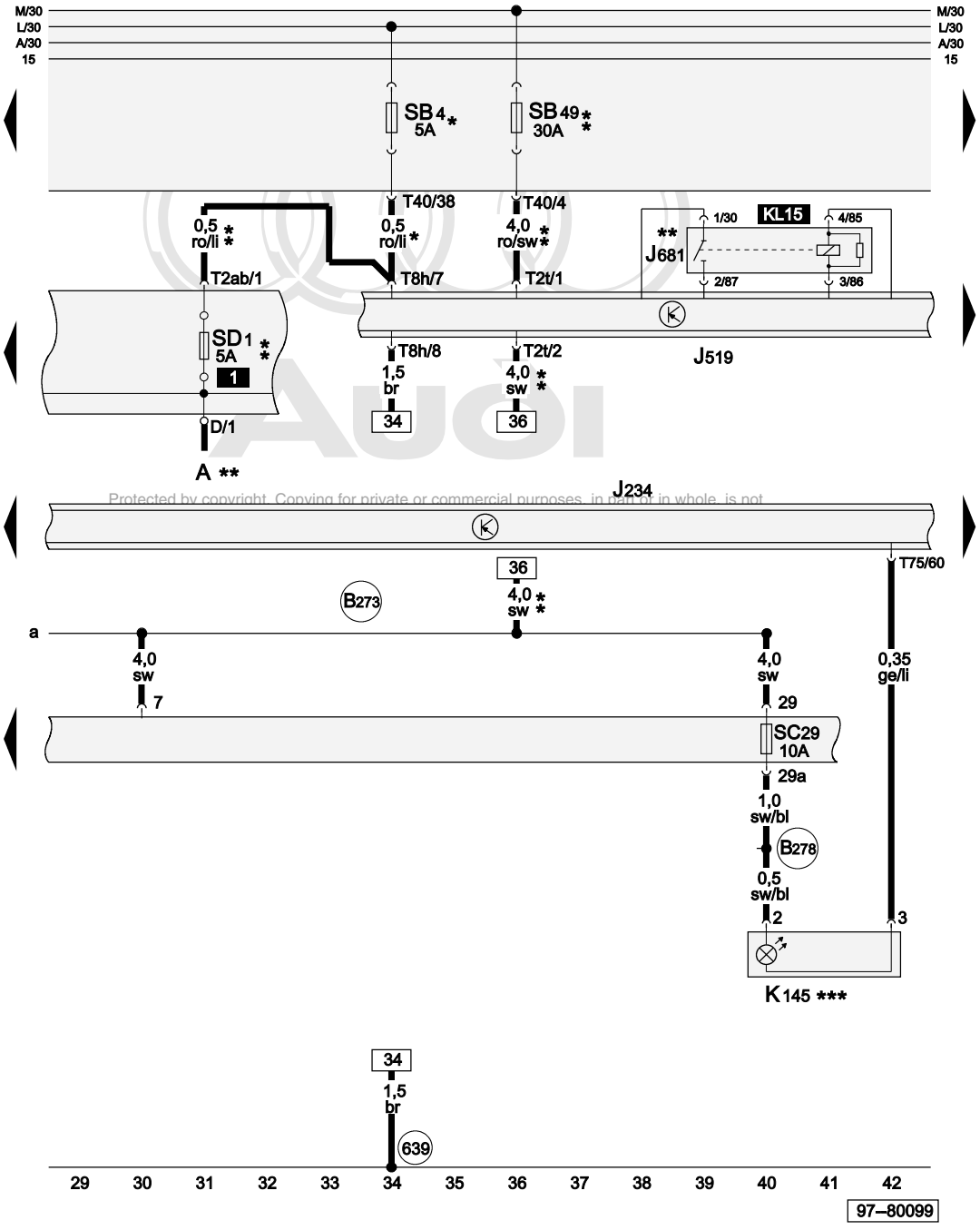


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Fuses on fuse holder, battery isolation igniter

B	Starter
J234	Airbag control unit
N253	Battery isolation igniter
SB40	Fuse 40 on fuse holder
SC5	Fuse 5 on fuse holder
SC6	Fuse 6 on fuse holder
T2aa	2-pin connector, purple (connector locking yellow)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	⇒ applicable Current Flow Diagram with battery in luggage compartment
***	Earth supply via the housing from airbag control unit

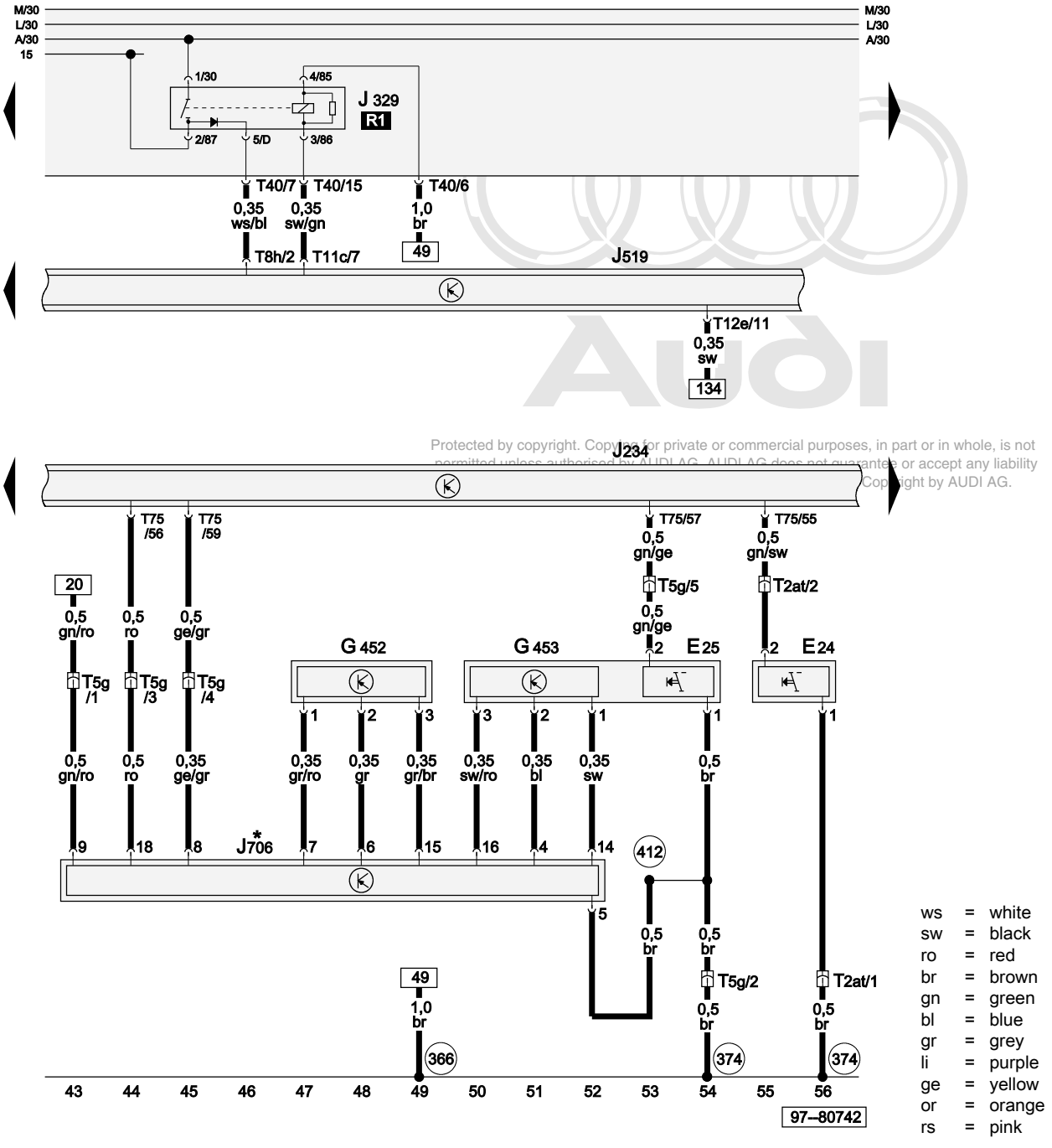


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Terminal 15 voltage supply relay 2, front passenger side airbag deactivated warning lamp

A	Battery
J234	Airbag control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
K145	Front passenger side airbag deactivated warning lamp
SB4	Fuse 4 on fuse holder
SB49	Fuse 49 on fuse holder
SC29	Fuse 29 on fuse holder
SD1	Fuse 1 on fuse holder
T2ab	2-pin connector, black
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T75	75-pin connector, yellow (connector locking green)
639	Earth point, left A-pillar
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	⇒ applicable Current Flow Diagram with battery in luggage compartment
***	for models with front passenger side airbag deactivated warning lamp only

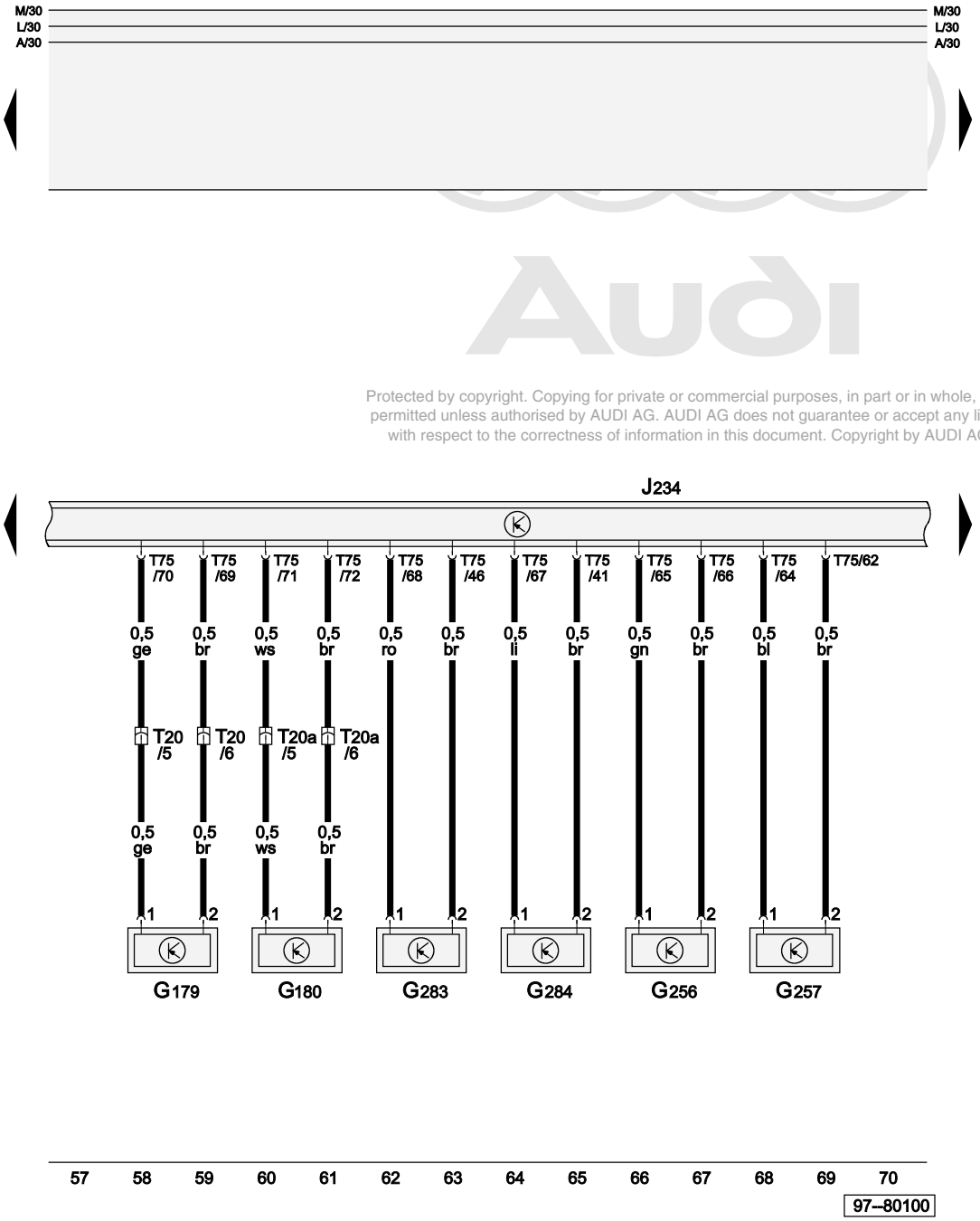


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Belt switch, terminal 15 voltage supply relay

E24	Driver side belt switch
E25	Front passenger side belt switch
G452	Pressure sensor for seat occupied recognition
G453	Seat belt force sensor for seat occupied recognition
J234	Airbag control unit
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J706	Seat occupied recognition control unit
T2at	2-pin connector, black, under driver seat
T5g	5-pin connector, black, under front passenger seat
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T12e	12-pin connector, black (connector G)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T75	75-pin connector, yellow (connector locking green)
366	Earth connection 1, in main wiring harness
374	Earth connection 9, in main wiring harness
412	Earth connection 3, in seat adjuster wiring harness
*	for models with seat occupied recognition only

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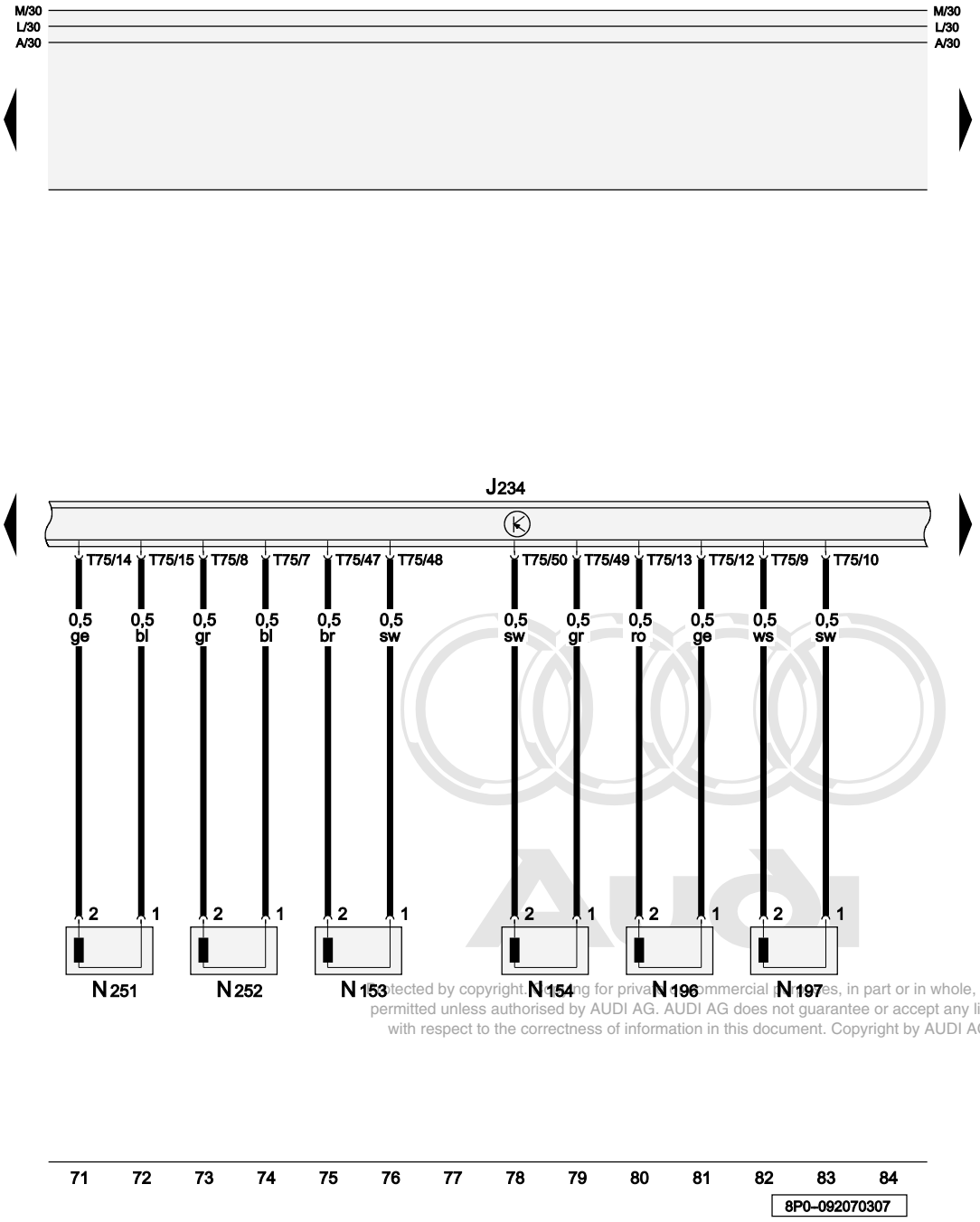


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Crash sensors

G179	Side airbag crash sensor on driver side
G180	Side airbag crash sensor on front passenger side
G256	Rear side airbag crash sensor on driver side
G257	Rear side airbag crash sensor on front passenger side
G283	Front airbag crash sensor for driver side
G284	Front airbag crash sensor for front passenger side
J234	Airbag control unit
T20	20-pin connector, black, door, A pillar, left
T20a	20-pin connector, black, door, A pillar, right
T75	75-pin connector, yellow (connector locking green)

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or	=	orange
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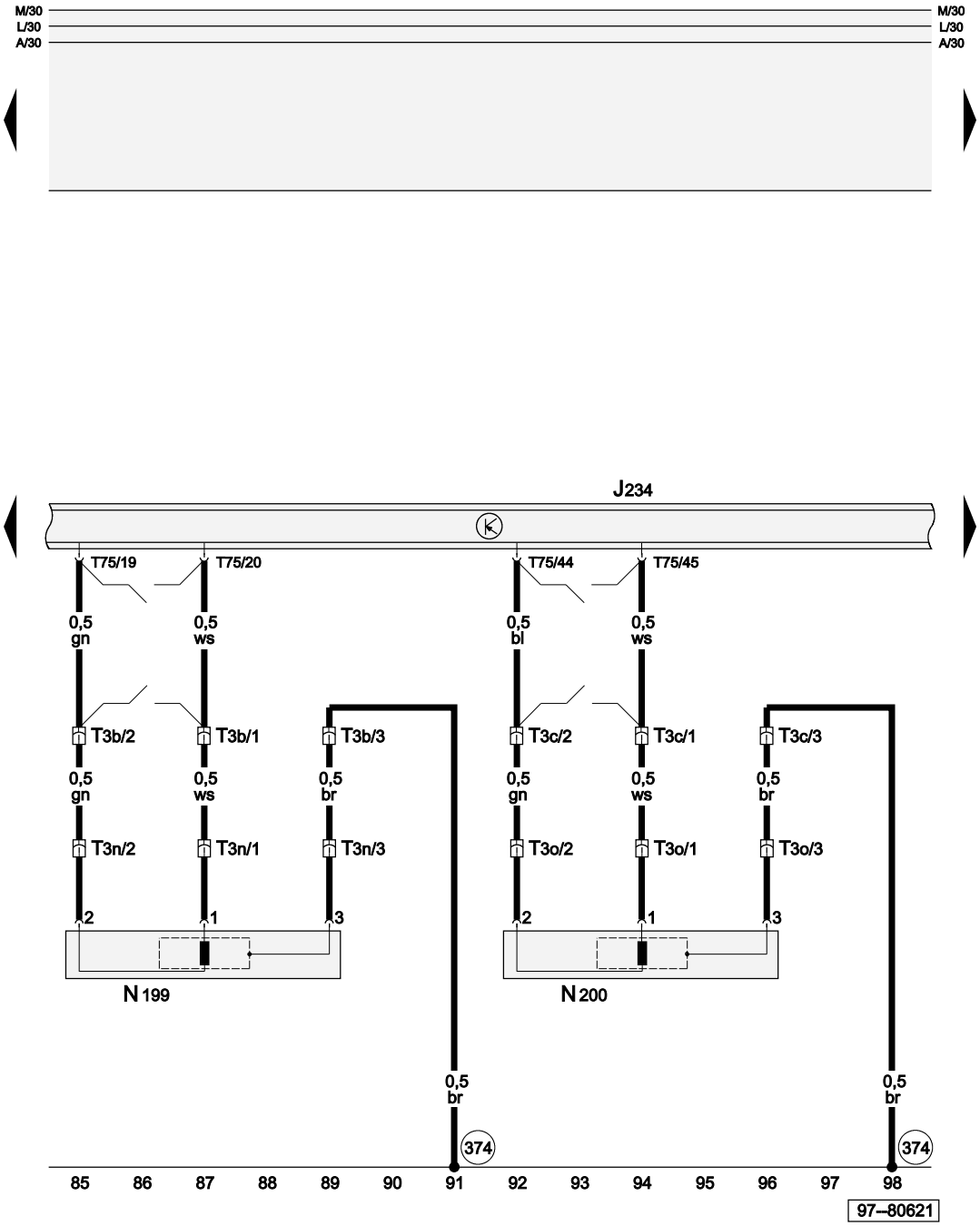


Seat belt tensioner, curtain airbag igniter

J234	Airbag control unit
N153	Driver seat belt tensioner igniter 1
N154	Front passenger side seat belt tensioner igniter 1
N196	Rear belt tensioner igniter on driver side
N197	Rear belt tensioner igniter on front passenger side
N251	Driver side curtain airbag igniter
N252	Front passenger side curtain airbag igniter
T75	75-pin connector, yellow (connector locking green)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Side airbag igniter on driver side, side airbag igniter on front passenger side

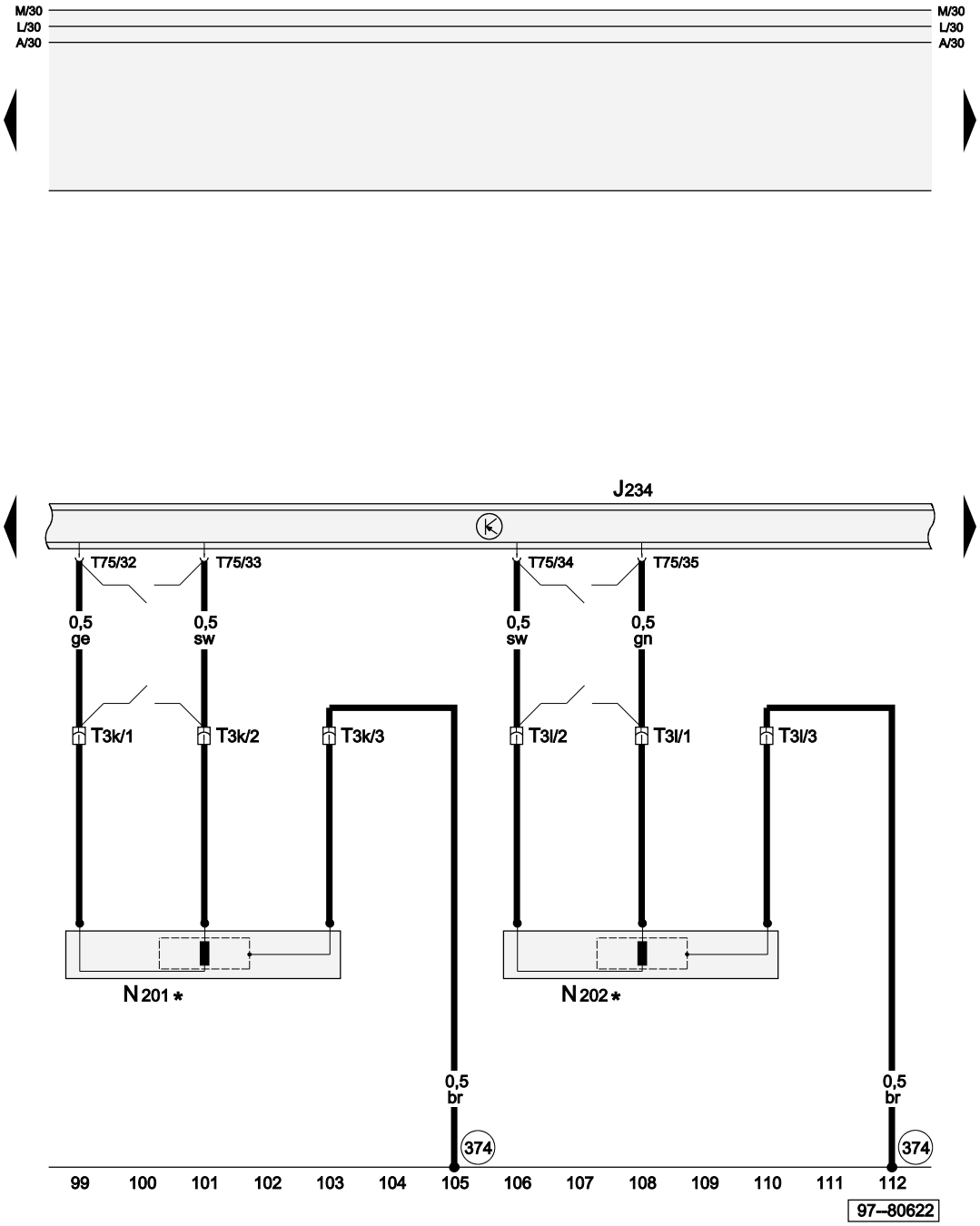
J234	Airbag control unit
N199	Side airbag igniter on driver side
N200	Side airbag igniter on front passenger side
T3b	3-pin connector, yellow, near driver seat
T3c	3-pin connector, yellow, near front passenger seat
T3n	3-pin connector, in driver seat
T3o	3-pin connector, in front passenger seat
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness

<fo:exter short circuit bridge becomes effective when connector is unplugged

nal-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/kurzbr_l.png" content-width="20pt" scaling="uniform"/>

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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Rear side airbag igniter on driver side, rear side airbag igniter on front passenger side

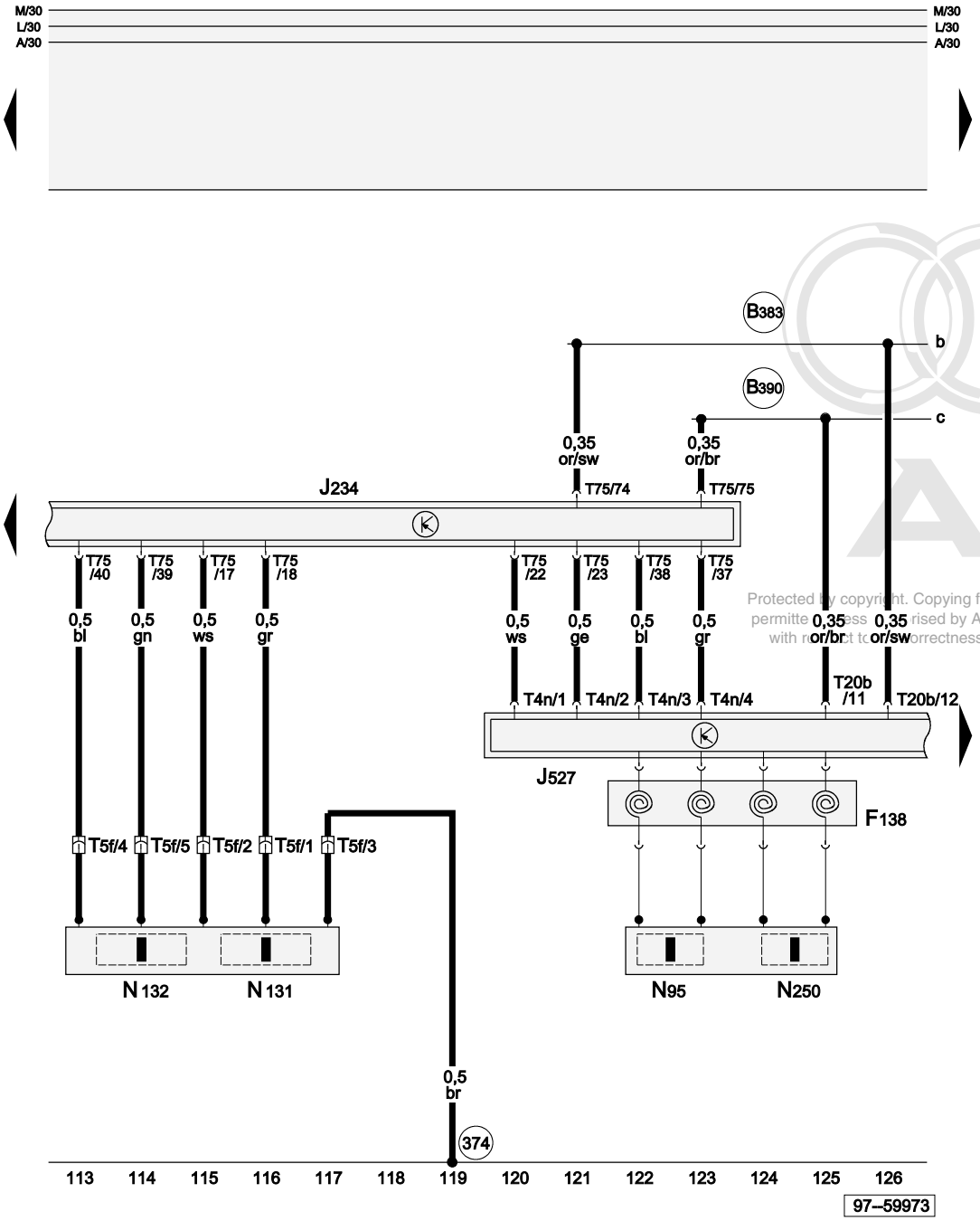
J234	Airbag control unit
N201	Rear side airbag igniter on driver side
N202	Rear side airbag igniter on front passenger side
T3k	3-pin connector, yellow (connector locking purple), near C-pillar left
T3l	3-pin connector, yellow (connector locking purple), near C-pillar right
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness

<fo:exter short circuit bridge becomes effective when connector is unplugged

nal-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/kurzbr_l.png" content-width="20pt" scaling="uniform"/>

* for models with side airbags only

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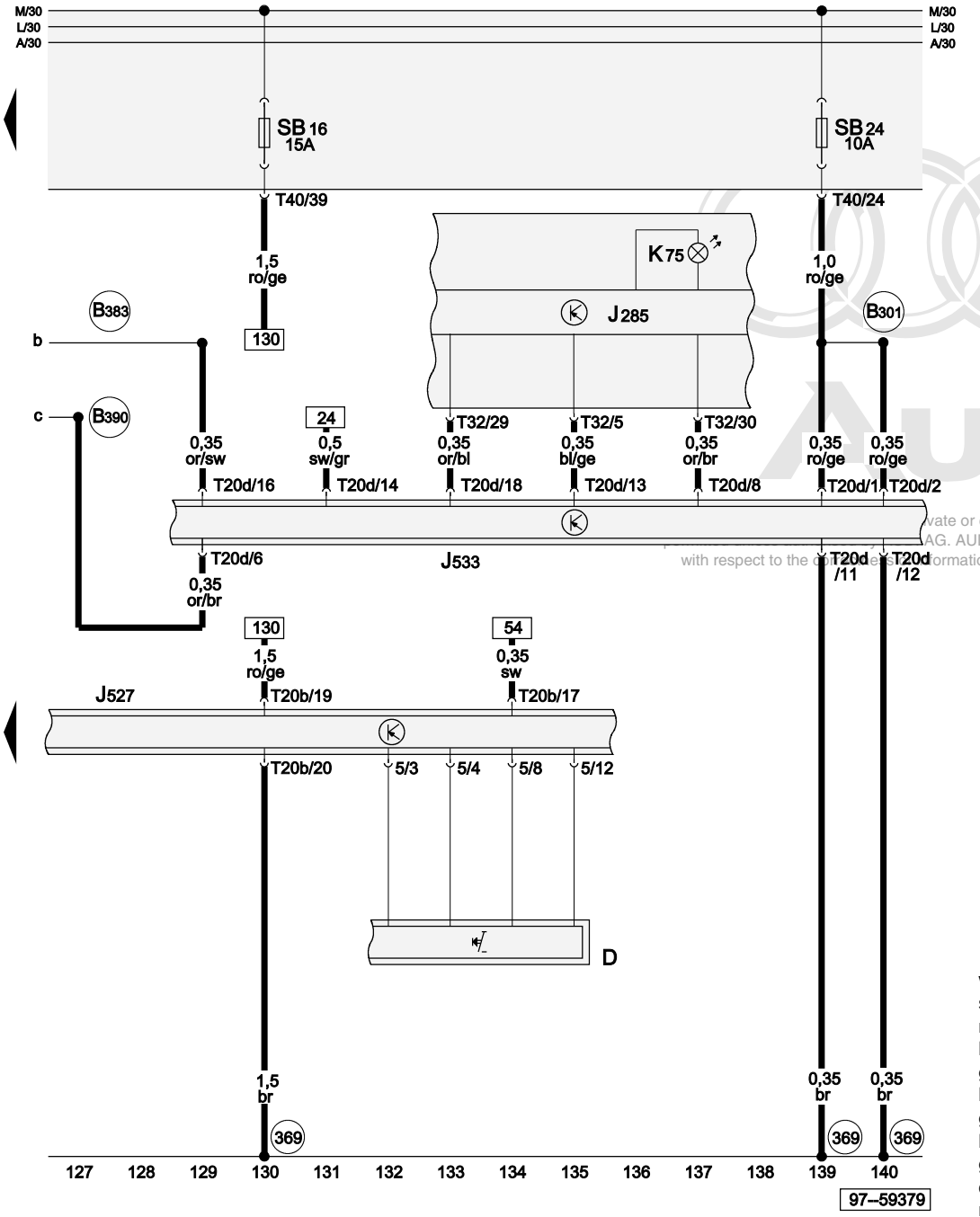


Driver side airbag igniter, front passenger side airbag igniter

F138	Airbag coil connector and return spring with slip ring
J234	Airbag control unit
J527	Steering column electronics control unit
N95	Driver side airbag igniter
N131	Front passenger side airbag igniter 1
N132	Front passenger side airbag igniter 2
N250	Driver side airbag igniter 2
T4n	4-pin connector, yellow (connector B)
T5f	5-pin connector, black
T20b	20-pin connector, black (connector A)
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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Display unit control unit

D	Ignition/starter switch
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K75	Airbag warning lamp
SB16	Fuse 16 on fuse holder
SB24	Fuse 24 on fuse holder
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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Electric seat adjustment with lumbar support adjustment and seat heating

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

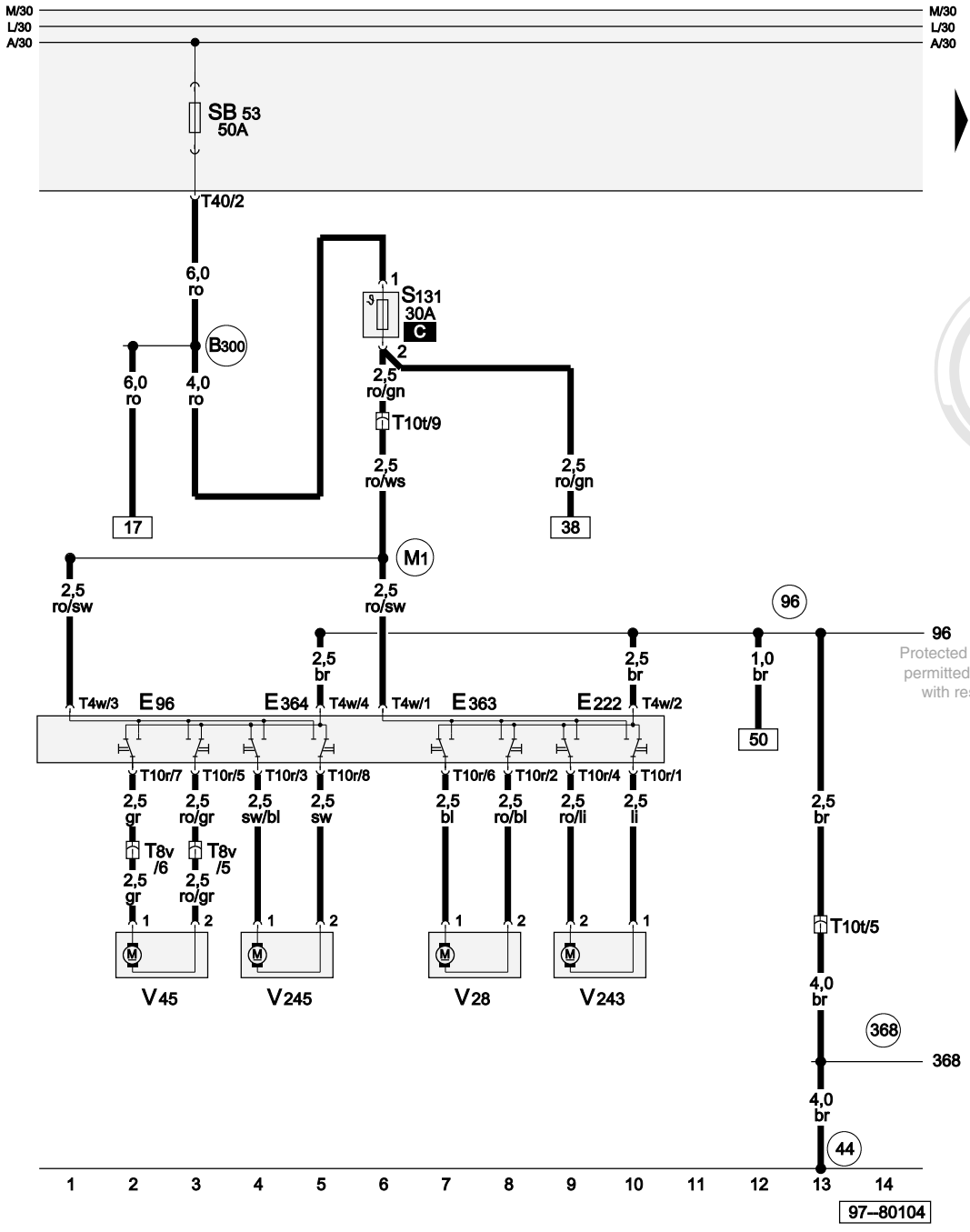
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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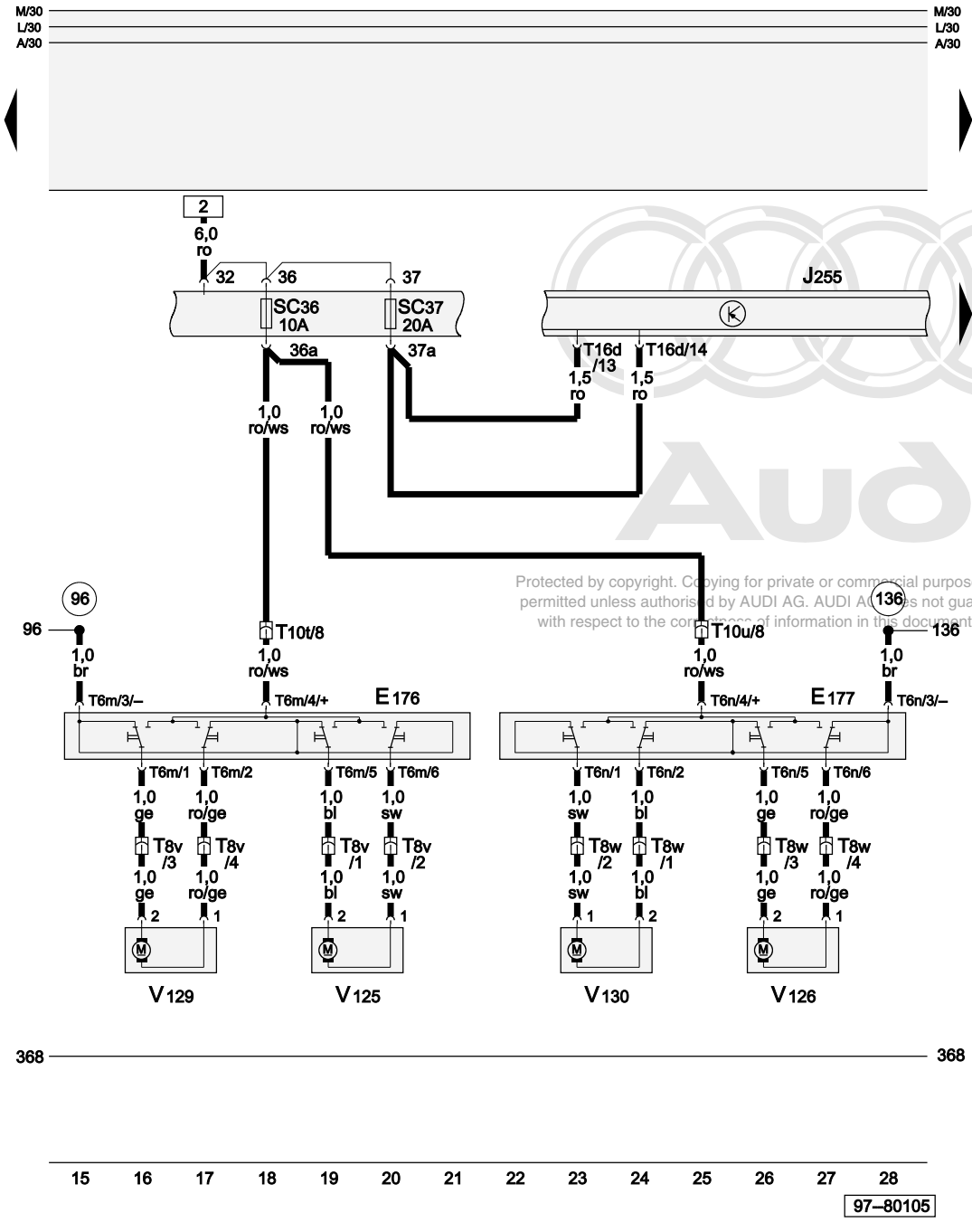


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Seat adjustment driver seat

E96	Driver seat backrest adjustment switch
E222	Driver seat rake adjustment switch
E363	Driver seat longitudinal adjustment switch
E364	Driver seat height adjustment switch
S131	Fuse 1
SB53	Fuse 53 on fuse holder
T4w	4-pin connector, black
T8v	8-pin connector, black, on driver seat, seat backrest
T10r	10-pin connector, black
T10t	10-pin connector, black, under driver seat
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V28	Driver seat longitudinal adjustment motor
V45	Driver seat backrest adjustment motor
V243	Driver seat rake adjustment motor
V245	Driver seat height adjustment motor
44	Earth point, lower part of left A-pillar
96	Earth connection 1, in seat heating wiring harness
368	Earth connection 3, in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
M1	Positive connection 1 (30), in seat adjustment wiring harness

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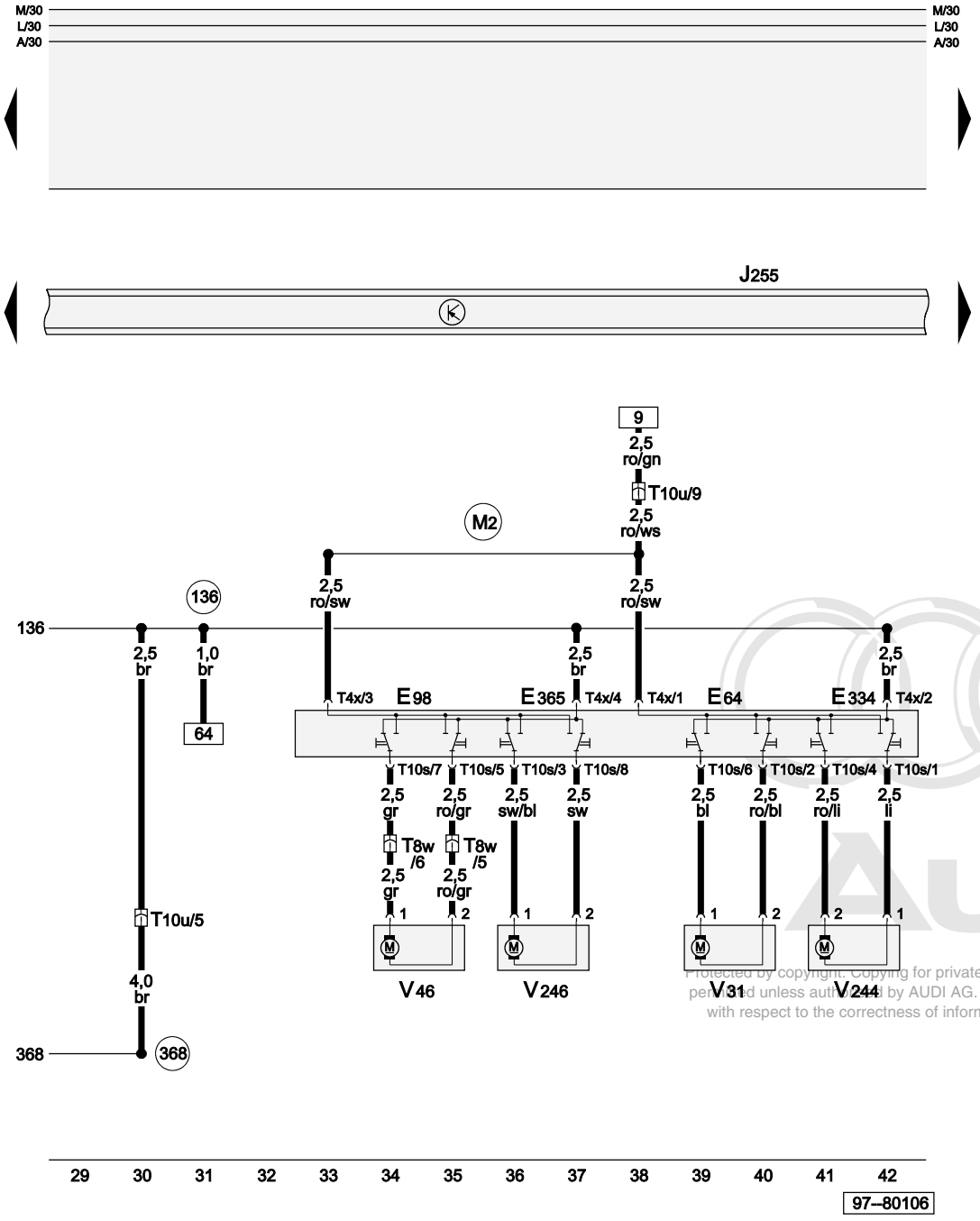


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Lumbar support adjustment

E176	Driver seat lumbar support adjustment switch
E177	Front passenger seat lumbar support adjustment switch
J255	Climatronic control unit
SC36	Fuse 36 on fuse holder
SC37	Fuse 37 on fuse holder
T6m	6-pin connector, black, lumbar support adjustment switch, driver seat
T6n	6-pin connector, black, lumbar support adjustment switch, front passenger seat
T8v	8-pin connector, black, on driver seat, seat backrest
T8w	8-pin connector, black, on front passenger seat, seat backrest
T10t	10-pin connector, black, under driver seat
T10u	10-pin connector, black, under front passenger seat
T16d	16-pin connector, black (connector D)
V125	Driver seat lumbar support longitudinal adjustment motor
V126	Front passenger seat lumbar support longitudinal adjustment motor
V129	Driver seat lumbar support height adjustment motor
V130	Front passenger seat lumbar support height adjustment motor
96	Earth connection 1, in seat heating wiring harness
136	Earth connection 2, in seat heating wiring harness

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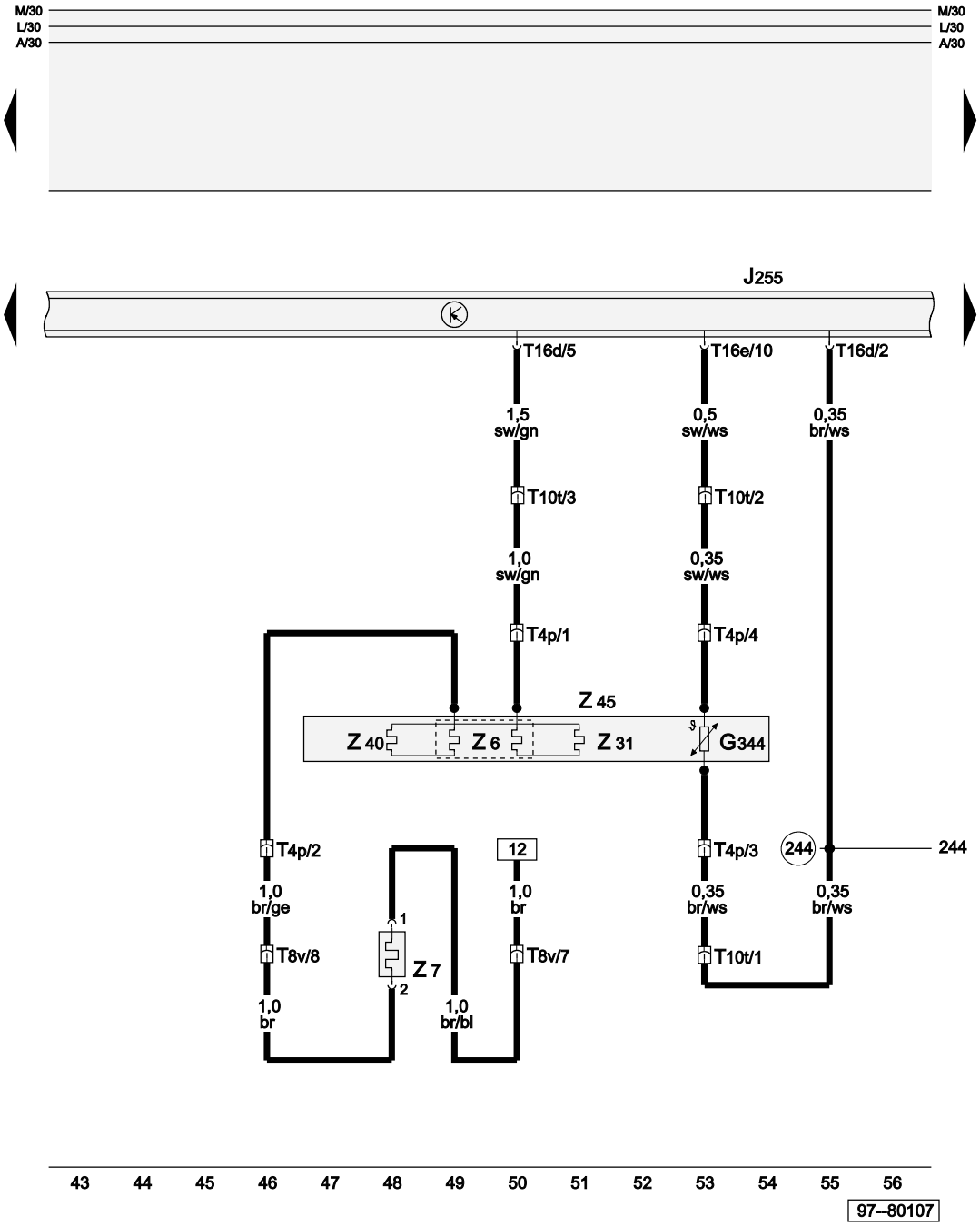


Seat adjustment front passenger seat

E64	Front passenger seat longitudinal adjustment switch
E98	Front passenger seat backrest adjustment switch
E334	Front passenger seat rake adjustment button
E365	Front passenger seat height adjustment switch
J255	Climatronic control unit
T4x	4-pin connector, black
T8w	8-pin connector, black, on front passenger seat, seat backrest
T10s	10-pin connector, black
T10u	10-pin connector, black, under front passenger seat
V31	Front passenger seat longitudinal adjustment motor
V46	Front passenger seat backrest adjustment motor
V244	Front passenger seat rake adjustment motor
V246	Front passenger seat height adjustment motor
136	Earth connection 2, in seat heating wiring harness
368	Earth connection 3, in main wiring harness
M2	Positive connection 2 (30), in seat adjustment wiring harness

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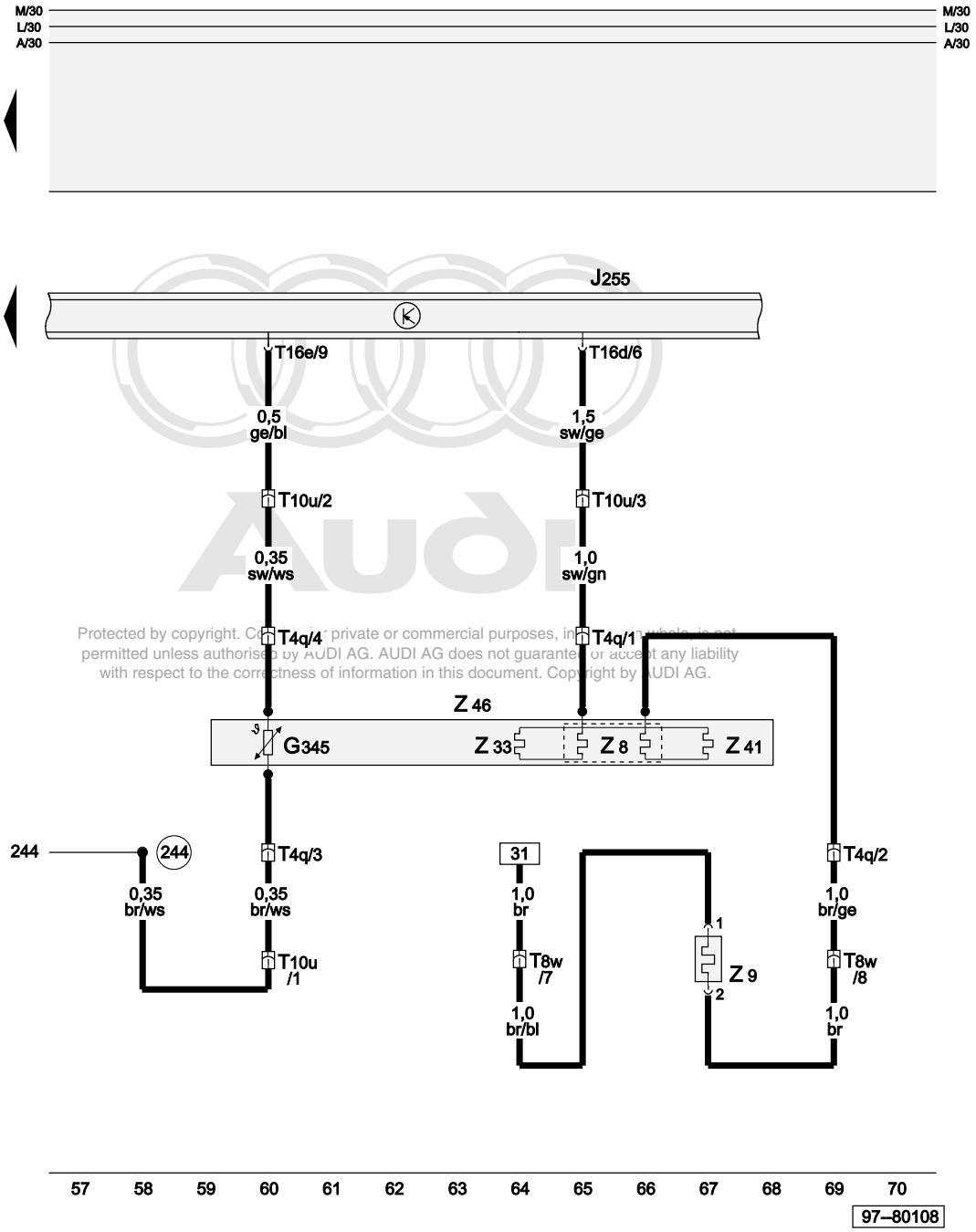


Seat heating driver seat

G344	Front left seat temperature sender
J255	Climatronic control unit
T4p	4-pin connector, black, on heated driver seat
T8v	8-pin connector, black, on driver seat, seat backrest
T10t	10-pin connector, black, under driver seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z6	Heated driver seat cushion
Z7	Heated driver seat backrest
Z31	Driver seat cushion lateral support heater
Z40	Driver seat lateral support heater 2
Z45	Front left seat heating
(244)	Earth connection (sender earth), in Climatronic wiring harness

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Seat heating front passenger seat

G345	Front right seat temperature sender
J255	Climatronic control unit
T4q	4-pin connector, black, on heated front passenger seat
T8w	8-pin connector, black, on front passenger seat, seat backrest
T10u	10-pin connector, black, under front passenger seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z8	Heated front passenger seat cushion
Z9	Heated front passenger seat backrest
Z33	Front passenger seat lateral support heater
Z41	Front passenger seat lateral support heater 2
Z46	Front right seat heating
244	Earth connection (sender earth), in Climatronic wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

Radio and navigation system (models for Japan)

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

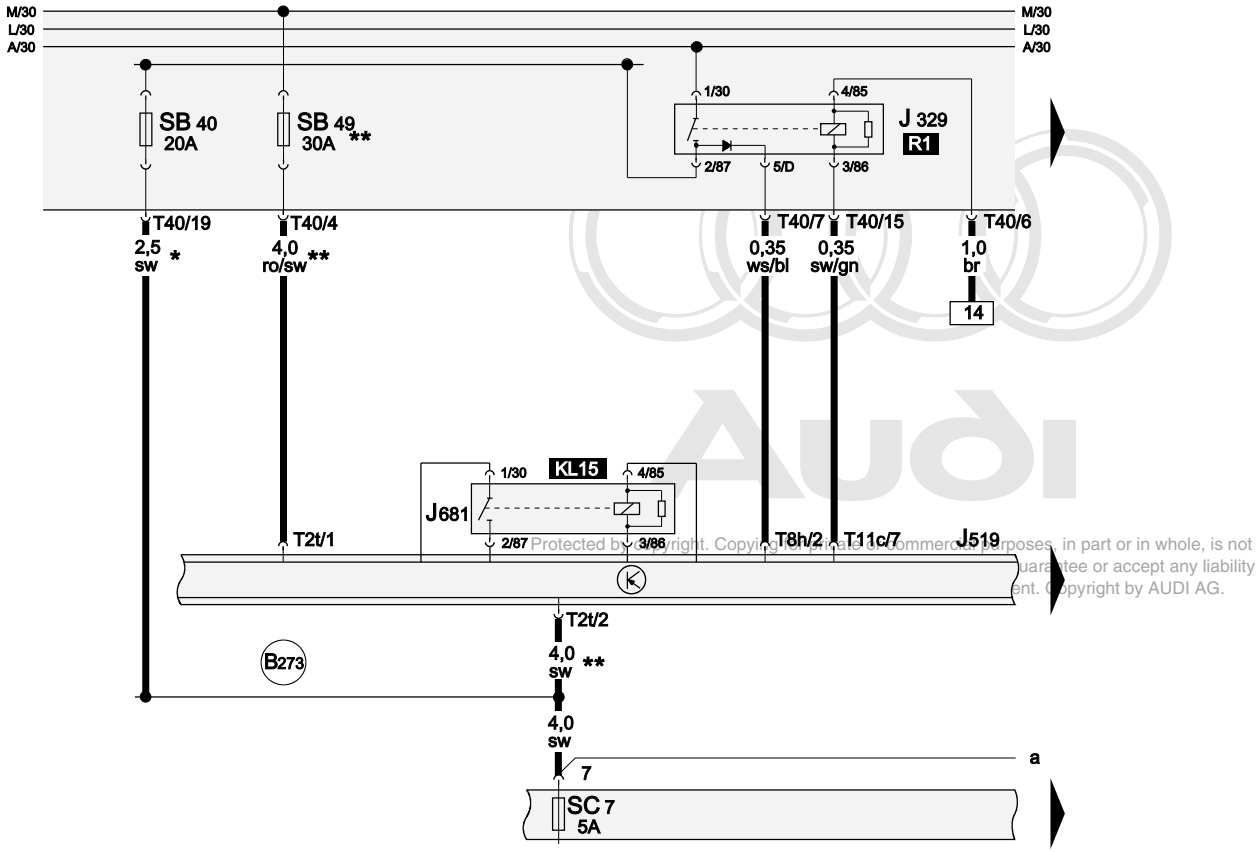
⇒ List of Fitting Locations!

For information concerning

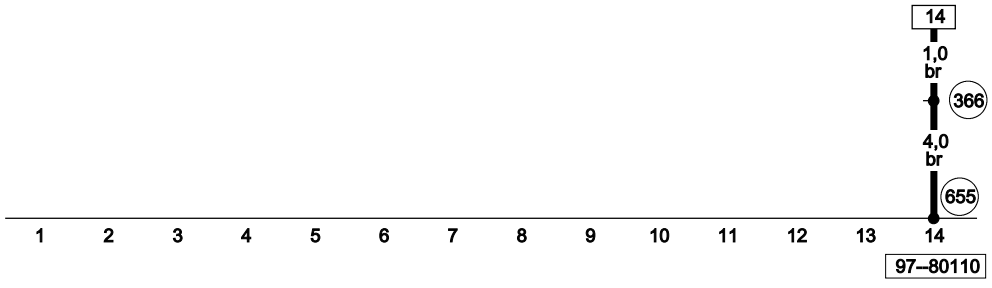
- Fault Finding Programs

⇒ guided fault finding

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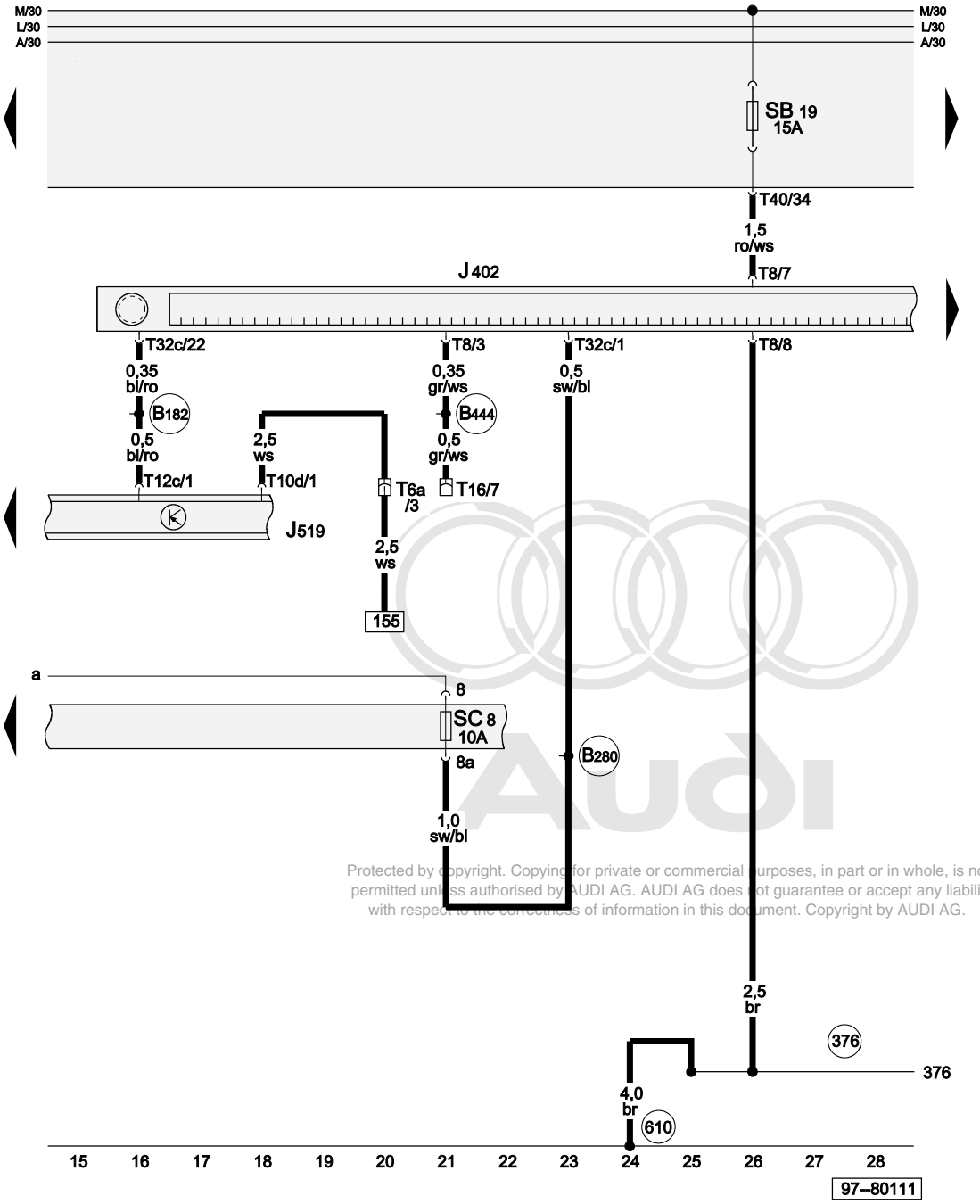
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Voltage supply, terminal 15 voltage supply relay

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder
SB49	Fuse 49 on fuse holder
SC7	Fuse 7 on fuse holder
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
655	Earth point, on left headlight
366	Earth connection 1, in main wiring harness
B273	Positive connection (15), in main wiring harness
*	For models with battery in engine compartment only
**	For models with battery in luggage compartment only

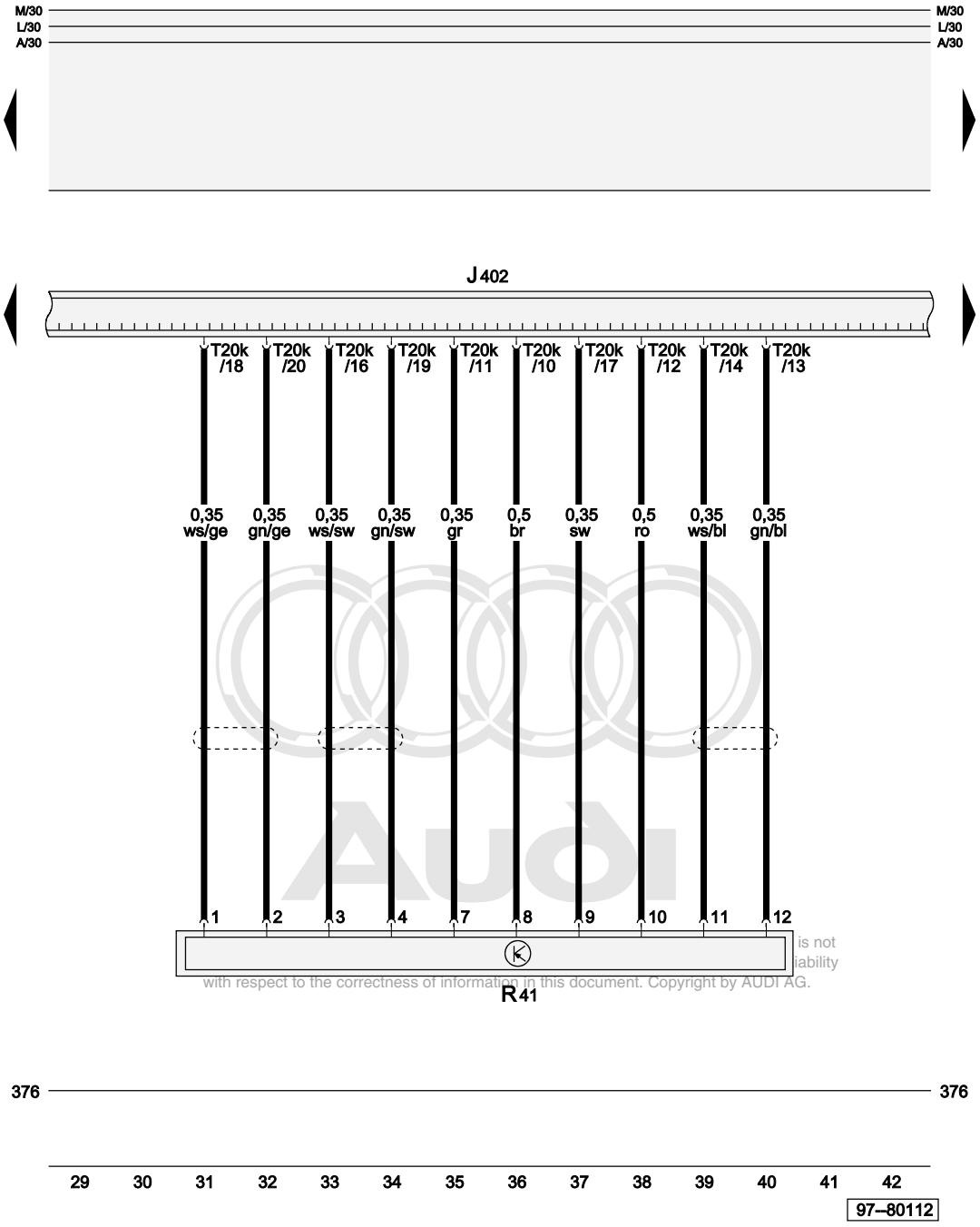


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Voltage supply

J402	Navigation operating electronics control unit
J519	Onboard supply control unit
SB19	Fuse 19 on fuse holder
SC8	Fuse 8 on fuse holder
T6a	6-pin connector, black, on left C-pillar
T8	8-pin connector, black (connector A)
T10d	10-pin connector, black (connector K)
T12c	12-pin connector, black (connector B)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T32c	32-pin connector, grey (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
B182	Connection (RL), in interior wiring harness
B280	Positive connection 4 (15a), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

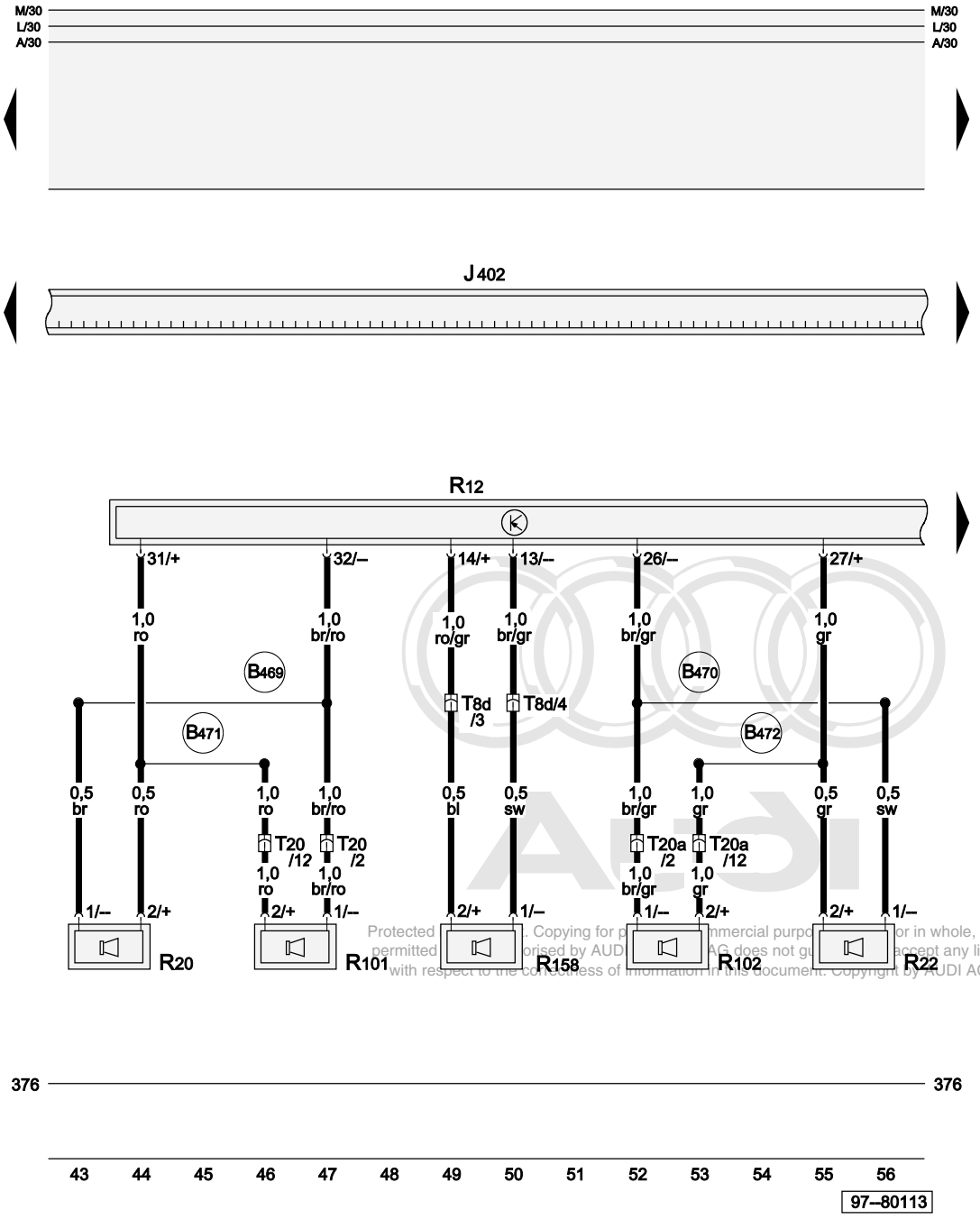


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CD changer

J402	Navigation operating electronics control unit
R41	CD changer
T20k	20-pin connector, black (connector C)

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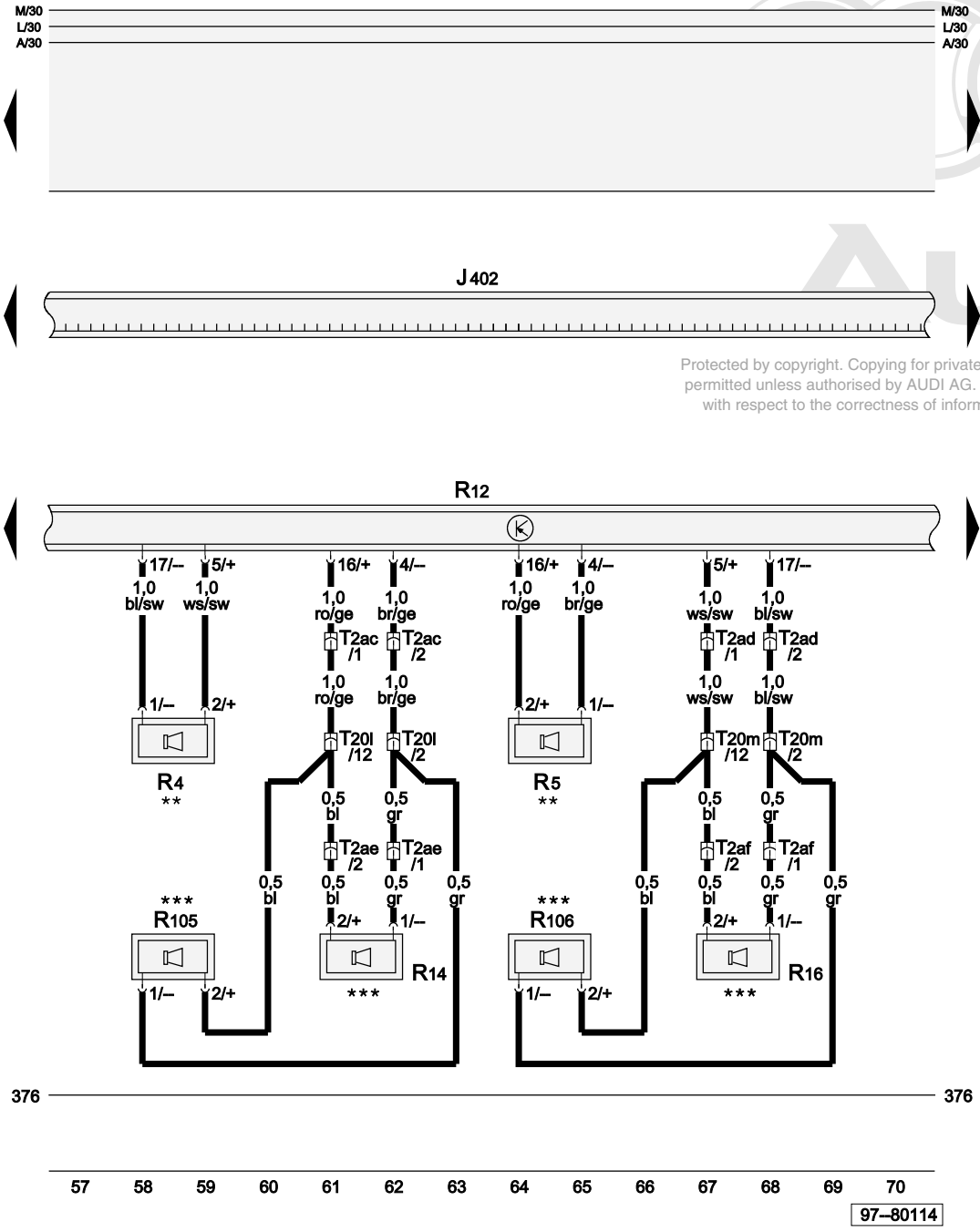


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Front loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

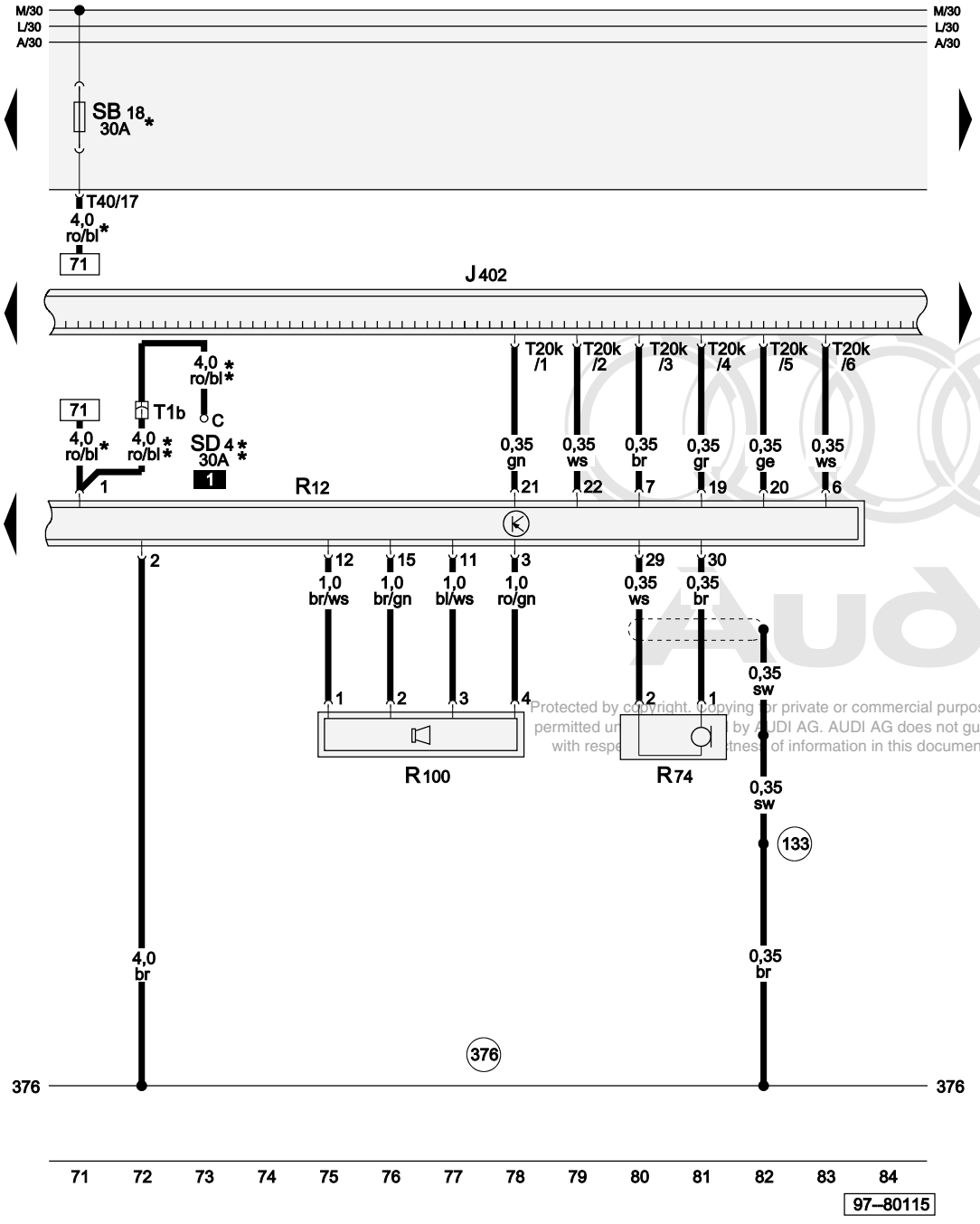


Rear loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
**	For models with 3-door models only
***	For models with 5-door models only

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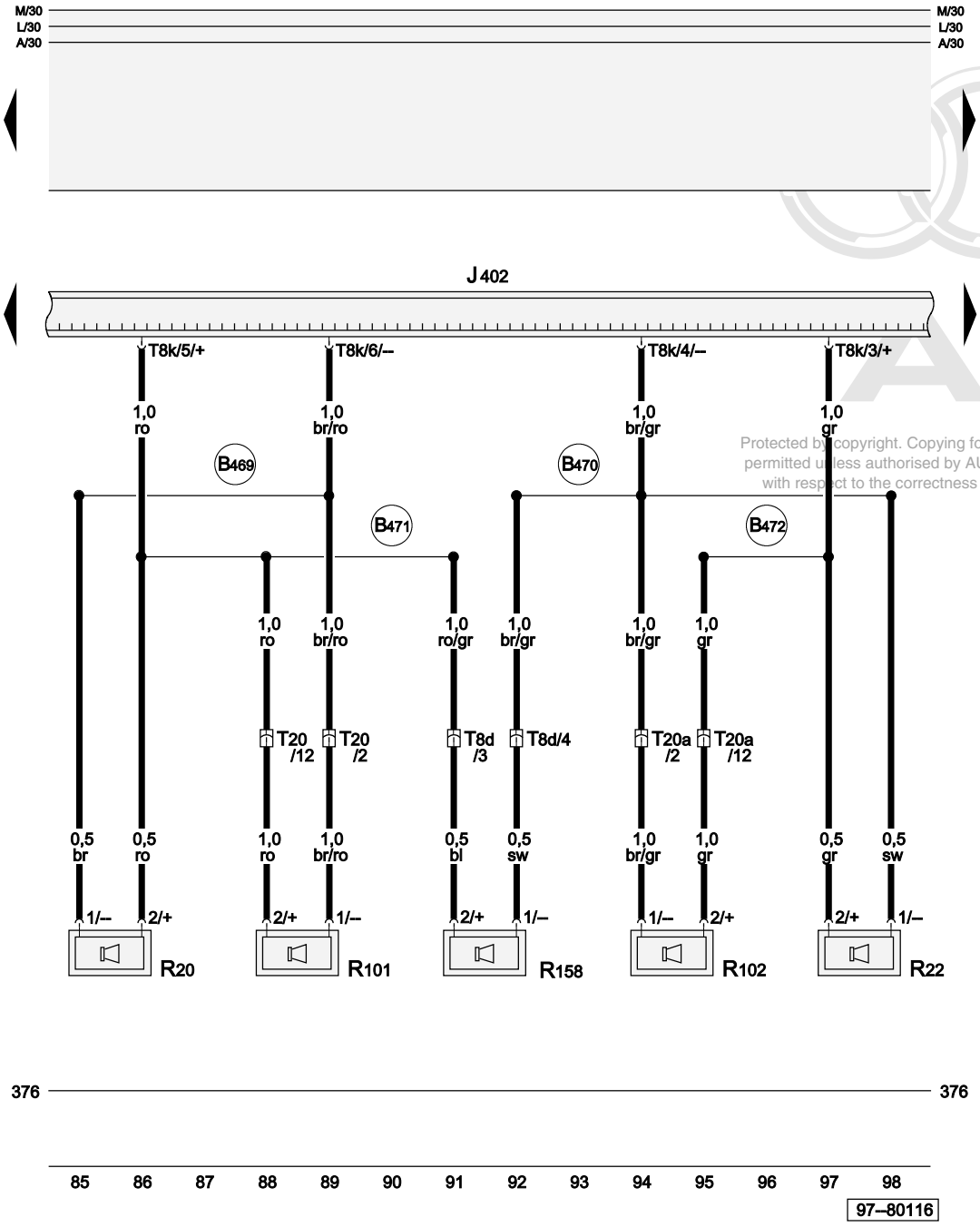


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Internal microphone, bass loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder
SD4	Fuse 4 on fuse holder
T1b	1-pin connector, black, on left C-pillar
T20k	20-pin connector, black (connector C)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
*	For models with battery in engine compartment only
**	For models with battery in luggage compartment only

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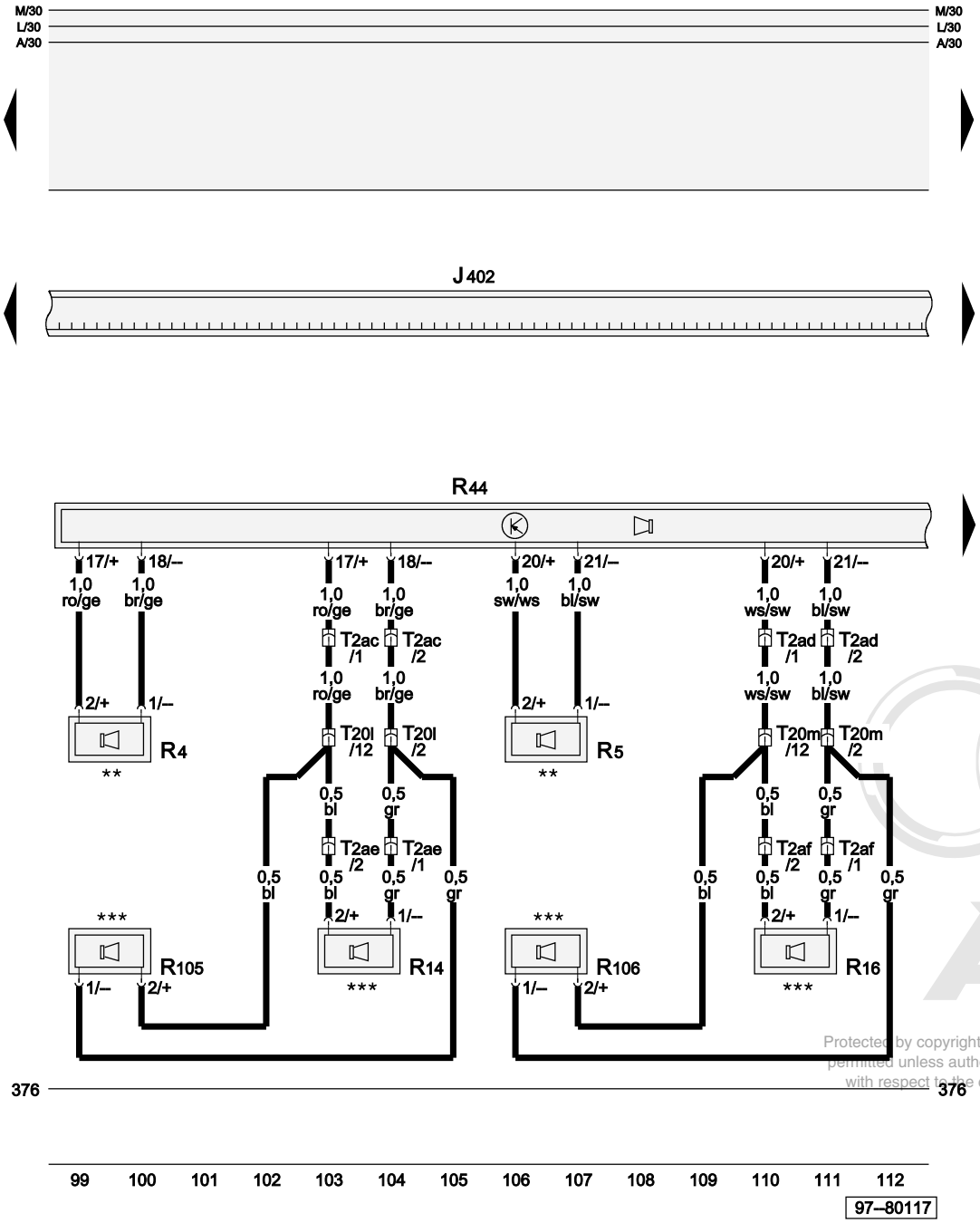


Front loudspeaker without Bose sound system

J402	Navigation operating electronics control unit
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8k	8-pin connector, brown (connector B)
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

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br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

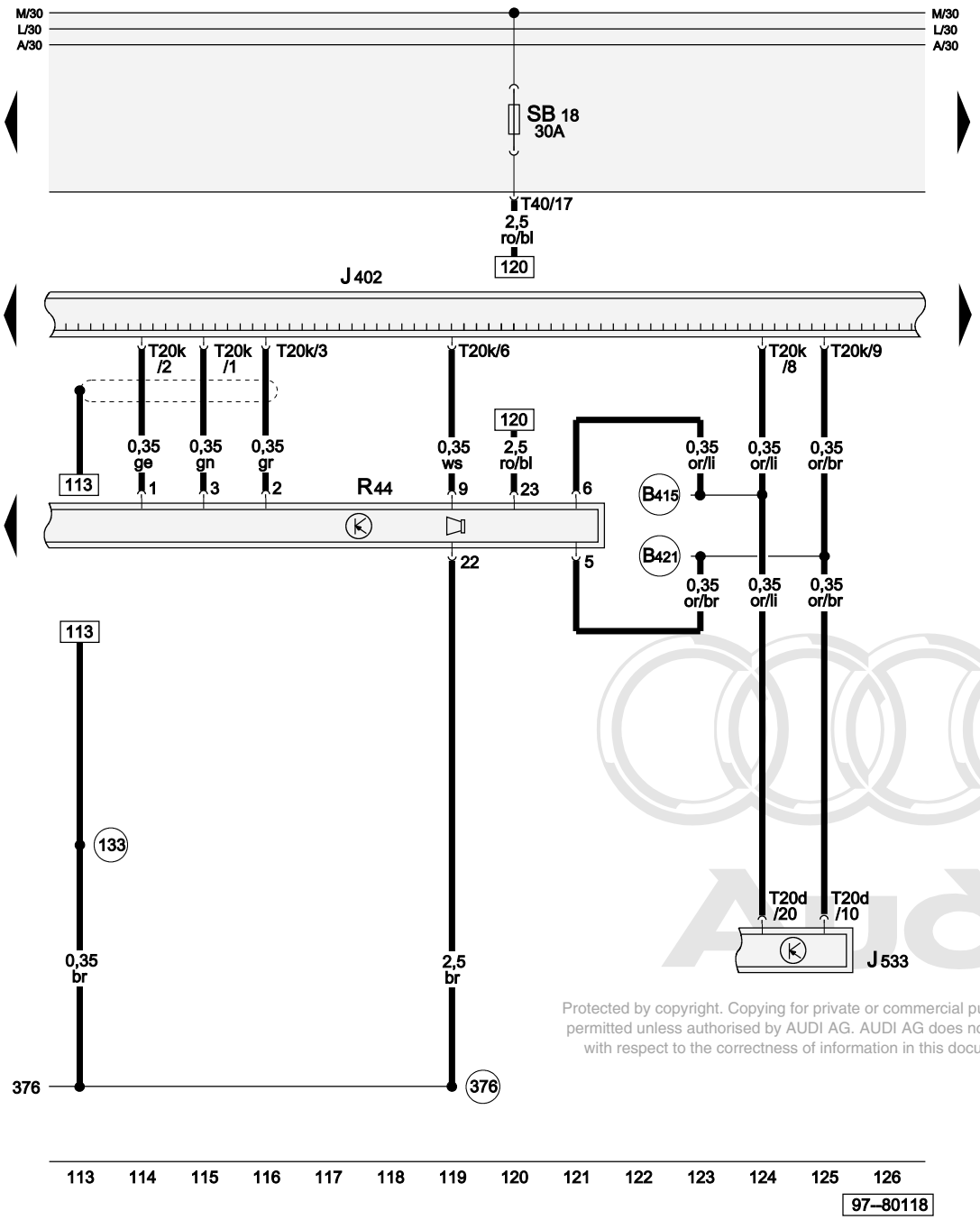


Rear loudspeaker without Bose sound system

J402	Navigation operating electronics control unit
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
*	For models with battery in engine compartment only
**	For models with battery in luggage compartment only

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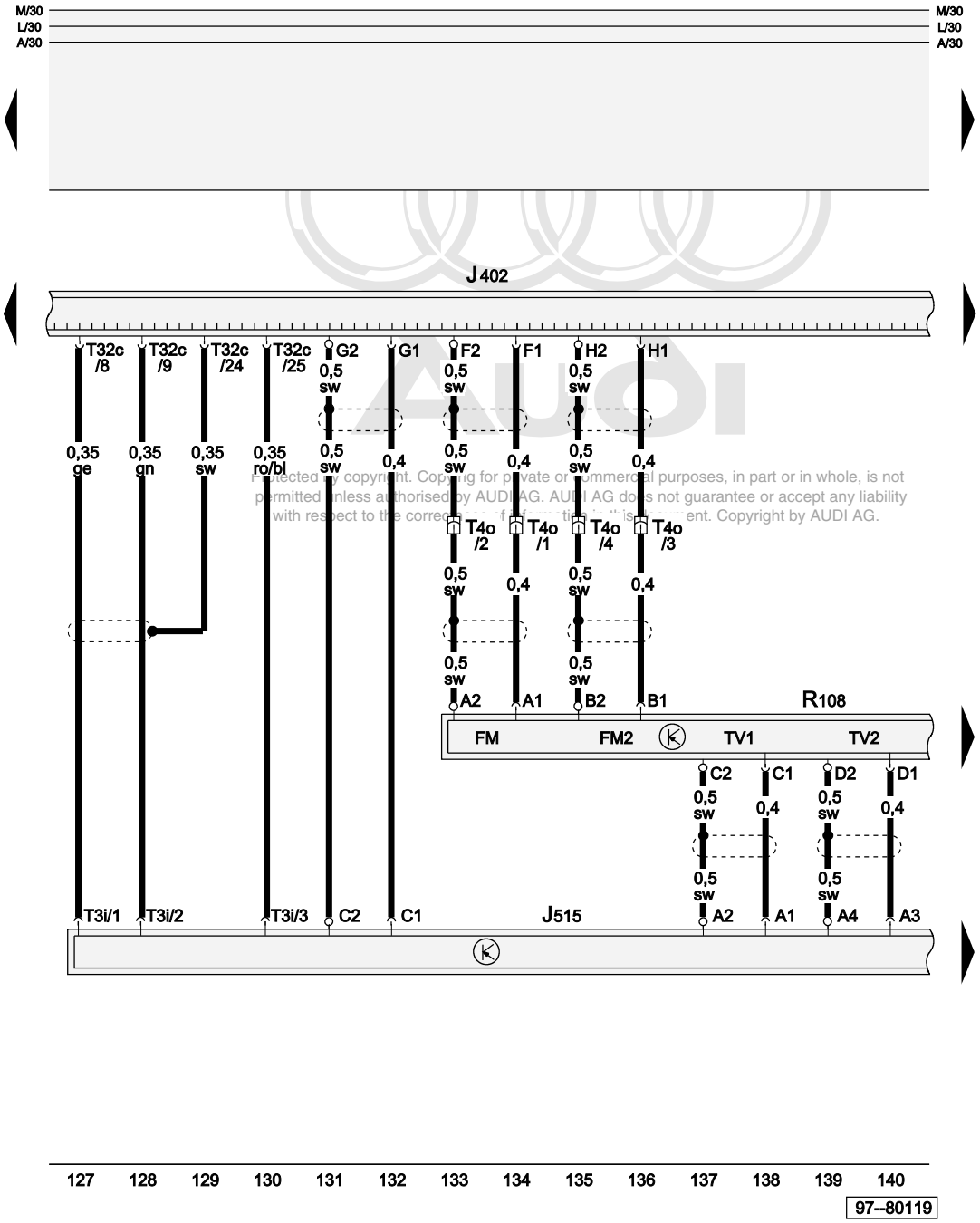


Amplifier with bass loudspeaker, on left in luggage compartment

J402	Navigation operating electronics control unit
J533	Data bus diagnostic interface
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder
T20d	20-pin connector, yellow (connector A)
T20k	20-pin connector, black (connector C)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

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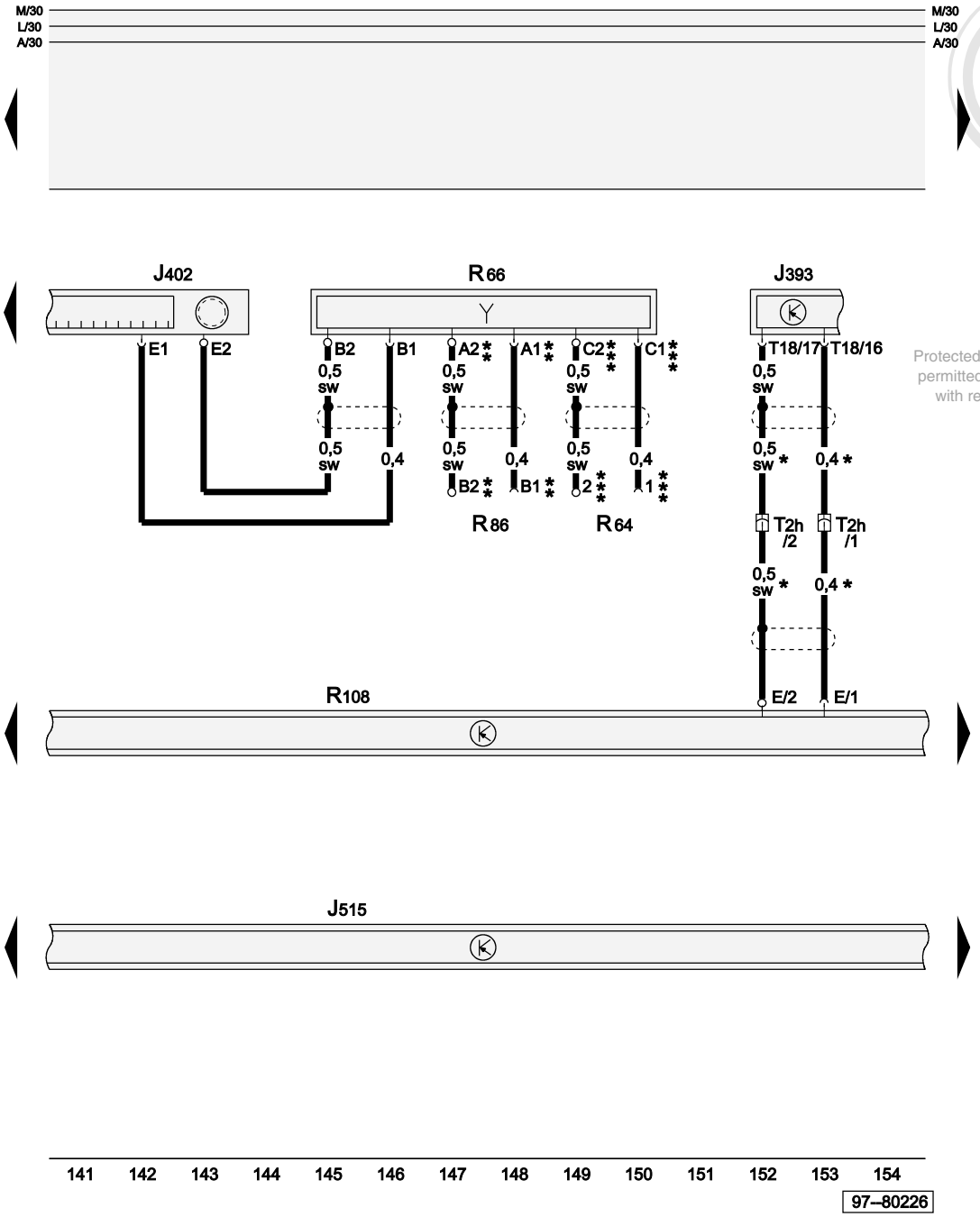


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Left aerial module

J402	Navigation operating electronics control unit
J515	Aerial selection control unit
R108	Left aerial module
T3i	3-pin connector, black (connector D)
T4o	4-pin connector, near C-pillar right
T32c	32-pin connector, grey (connector D)

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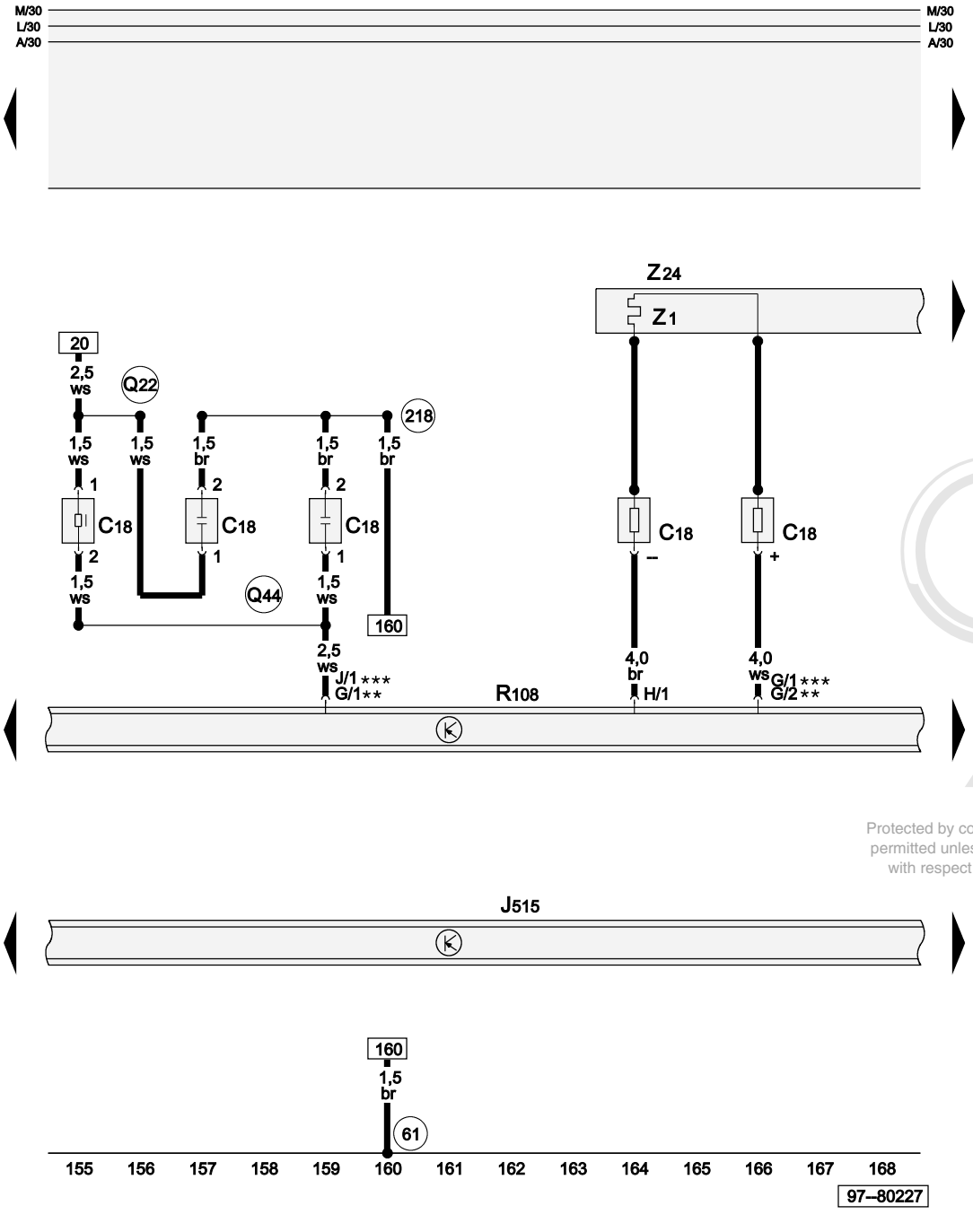


Left aerial module, telephone, navigation system and auxiliary heater aerial

J393	Convenience system central control unit
J402	Navigation operating electronics control unit
J515	Aerial selection control unit
R64	Remote control receiver for auxiliary heating
R66	Telephone, navigation system and auxiliary heater aerial
R86	Aerial amplifier for mobile telephone
R108	Left aerial module
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
*	For models with central locking or anti-theft alarm only
**	For models with preparation for mobile telephone only
***	For models with auxiliary heating only

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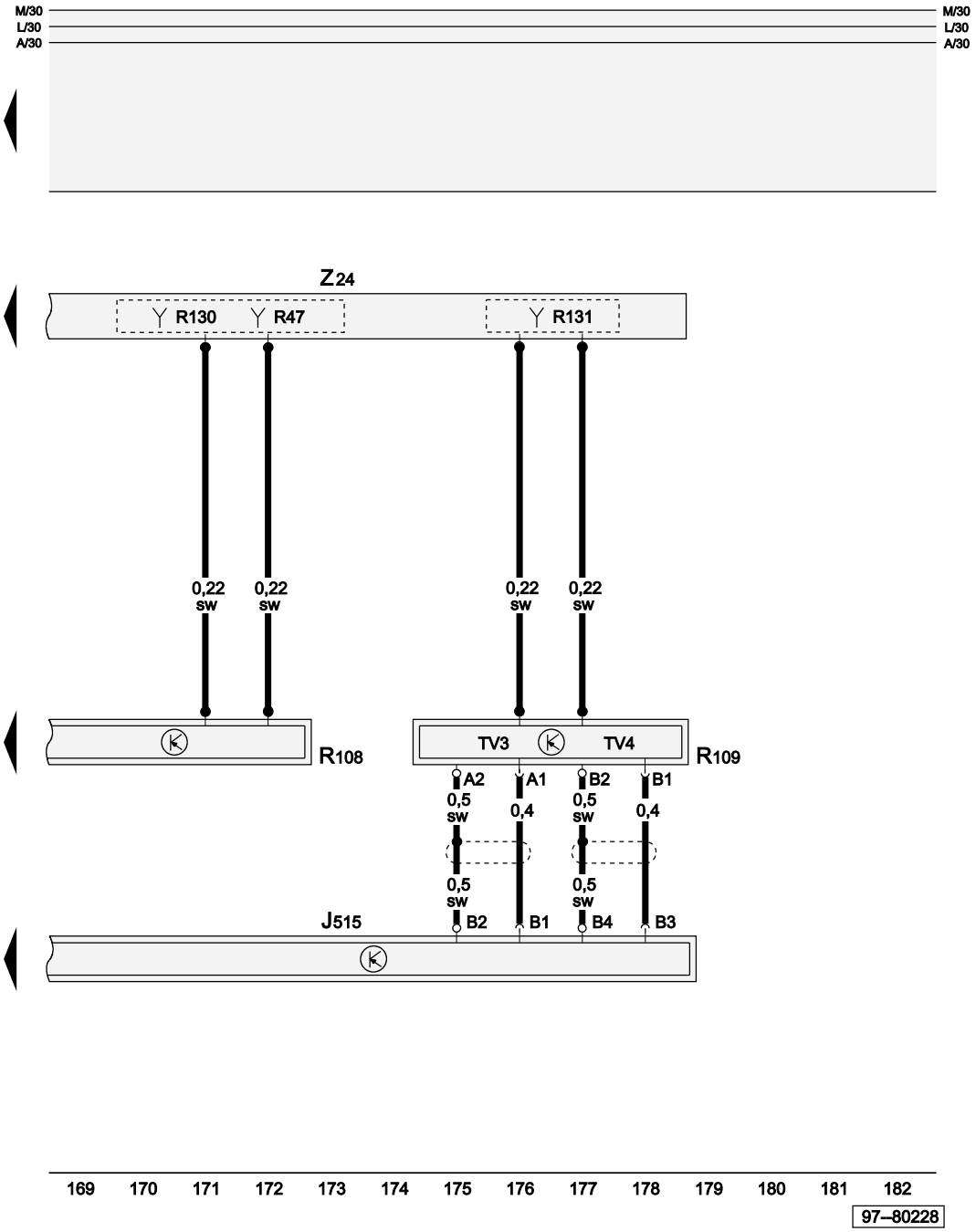


Left aerial module, window aerial suppression filter

C18	Window aerial suppression filter
J515	Aerial selection control unit
R108	Left aerial module
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point in left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness
**	For models with 3-door models only
***	For models with 5-door models only

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Left aerial module, rear window aerial 1, rear window aerial 2

J515	Aerial selection control unit
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R109	Right aerial module
R130	Rear window aerial 1
R131	Rear window aerial 2
Z24	Heated rear window with window aerial

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Tyre pressure monitor

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

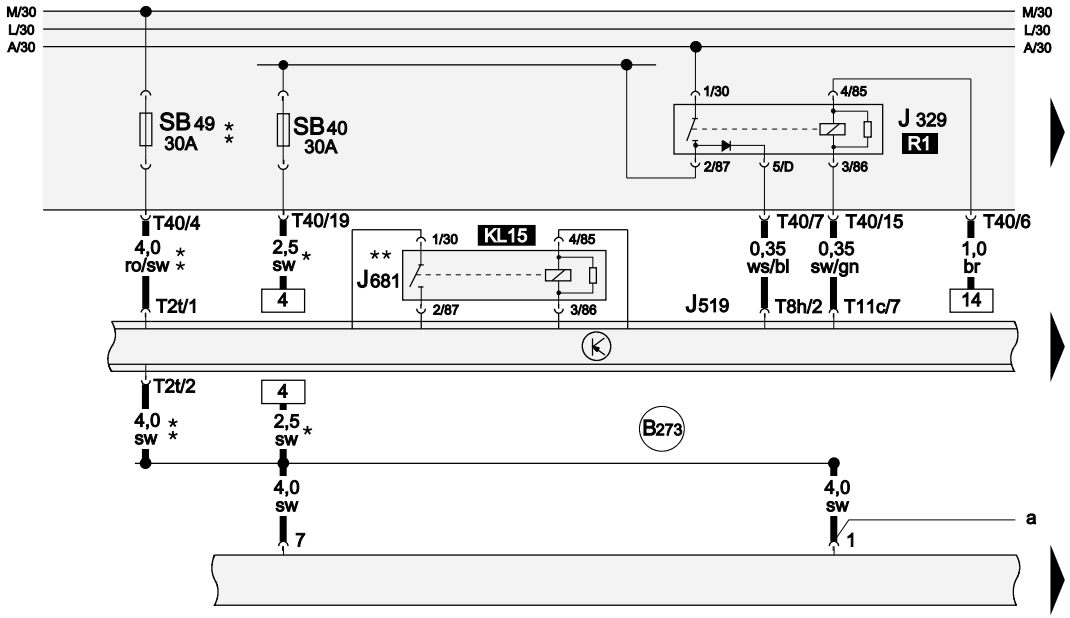
⇒ List of Fitting Locations!

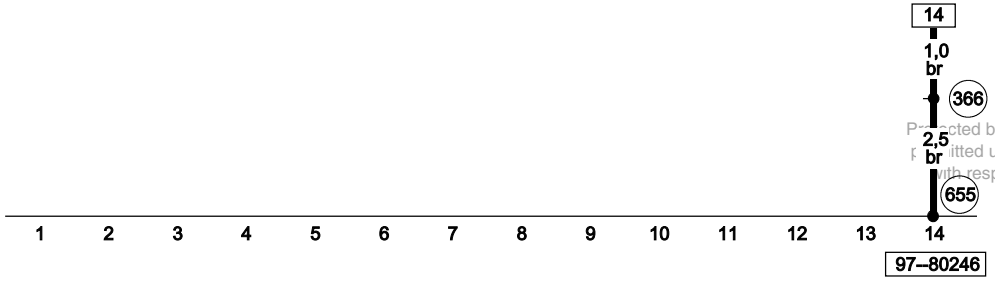
For information concerning

- Fault Finding Programs

⇒ guided fault finding

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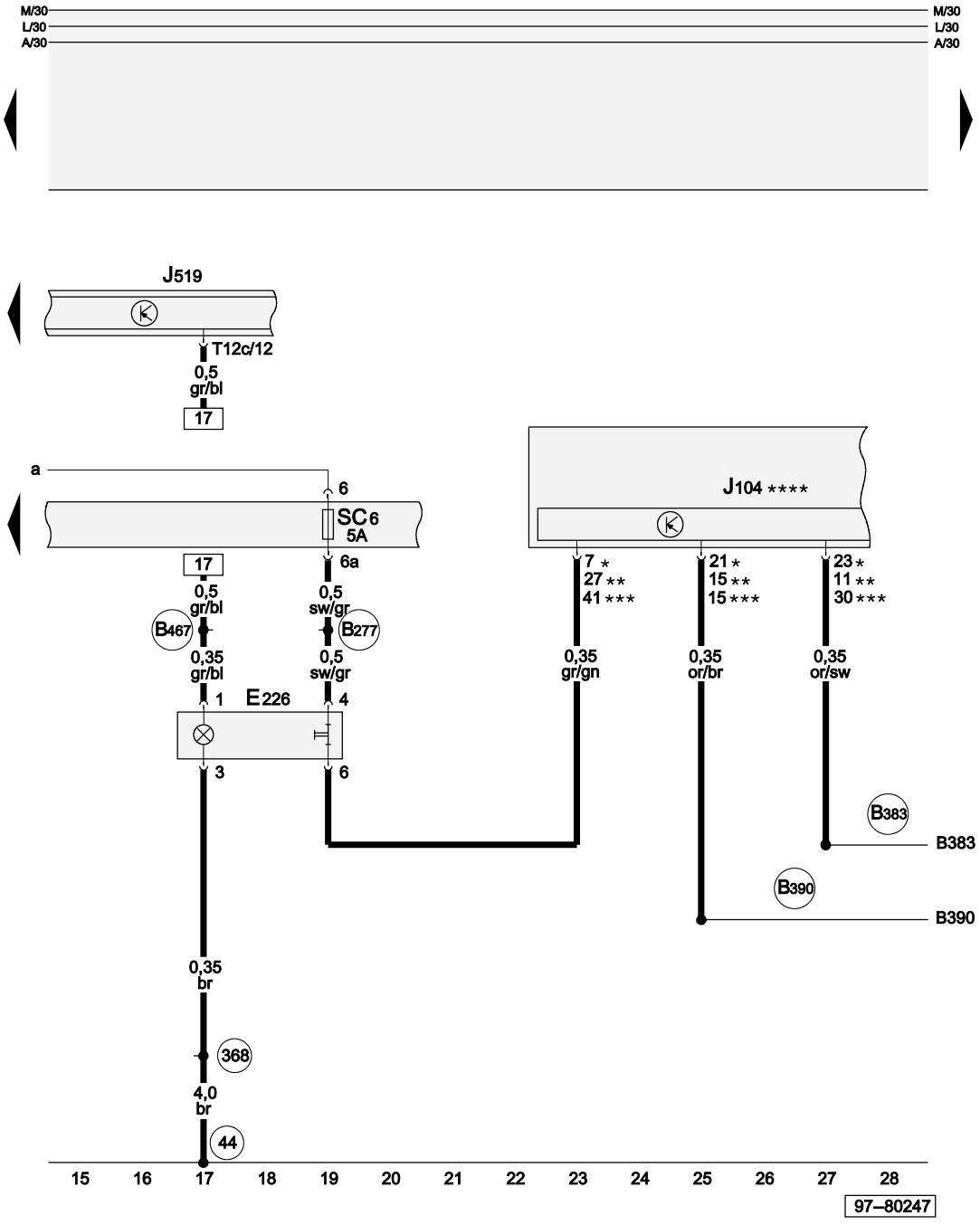


Terminal 15 voltage supply relay

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder
SB49	Fuse 49 on fuse holder
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B273	Positive connection (15), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

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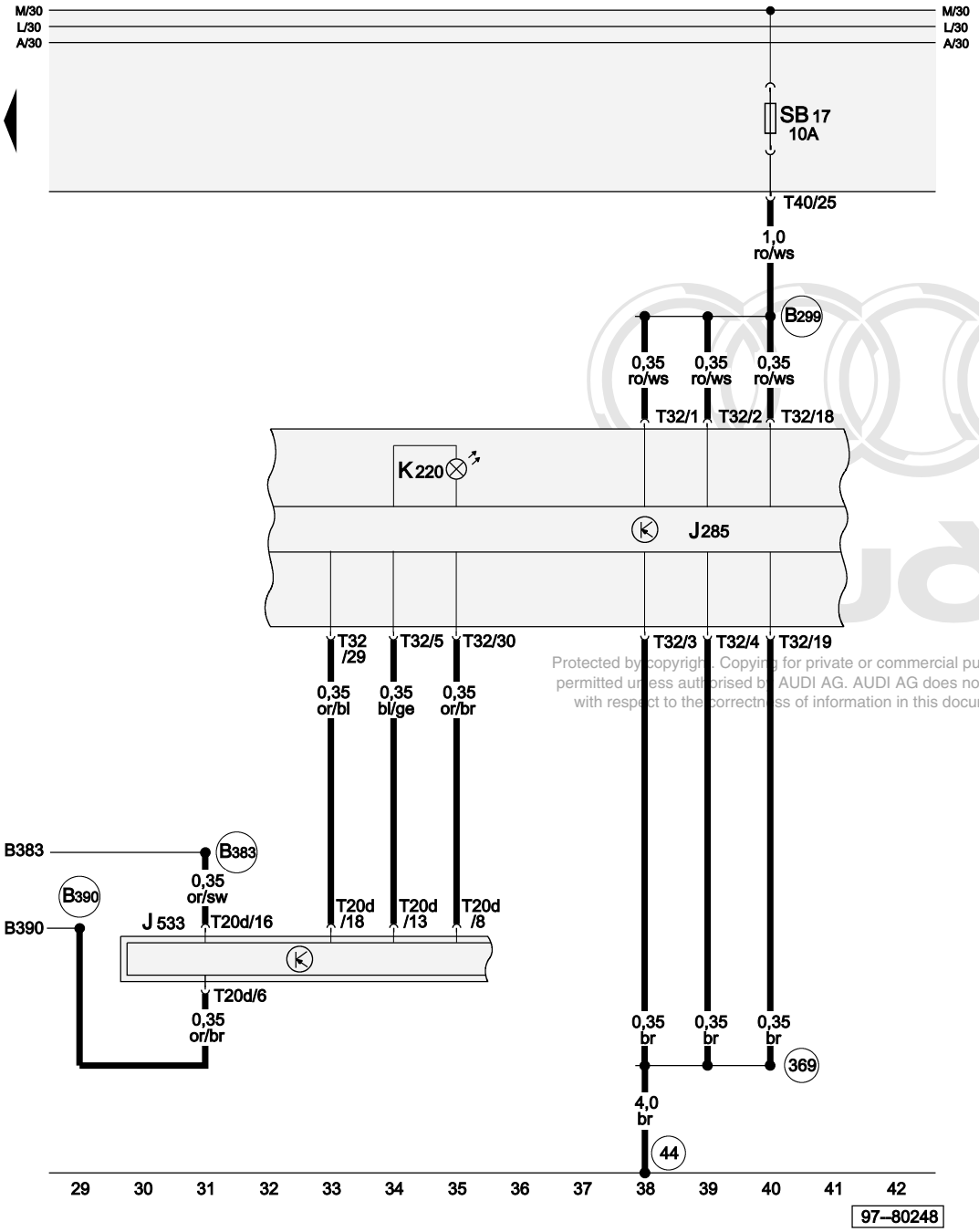


ws = white
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Tyre pressure monitor button

E226	Tyre pressure monitor button
J104	ABS control unit
J519	Onboard supply control unit
SC6	Fuse 6 on fuse holder
T12c	12-pin connector, black (connector B)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B467	Connection 3, in main wiring harness
*	for models with anti-lock brake system (ABS) MK70 only
**	for models with anti-lock brake system (ABS) MK60 and direct shift gearbox (02E) or manual gearbox only
***	for models with anti-lock brake system (ABS) MK60 and automatic gearbox (09G) only
****	⇒ Applicable Current Flow Diagram: anti-lock brake system (ABS)

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Control unit in dash panel insert

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K220	Tyre pressure monitor warning lamp
SB17	Fuse 17 on fuse holder
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B299	Positive connection 3 (30), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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li	=	purple
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or	=	orange
rs	=	pink

Sliding sunroof motor (Open-sky-System)

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

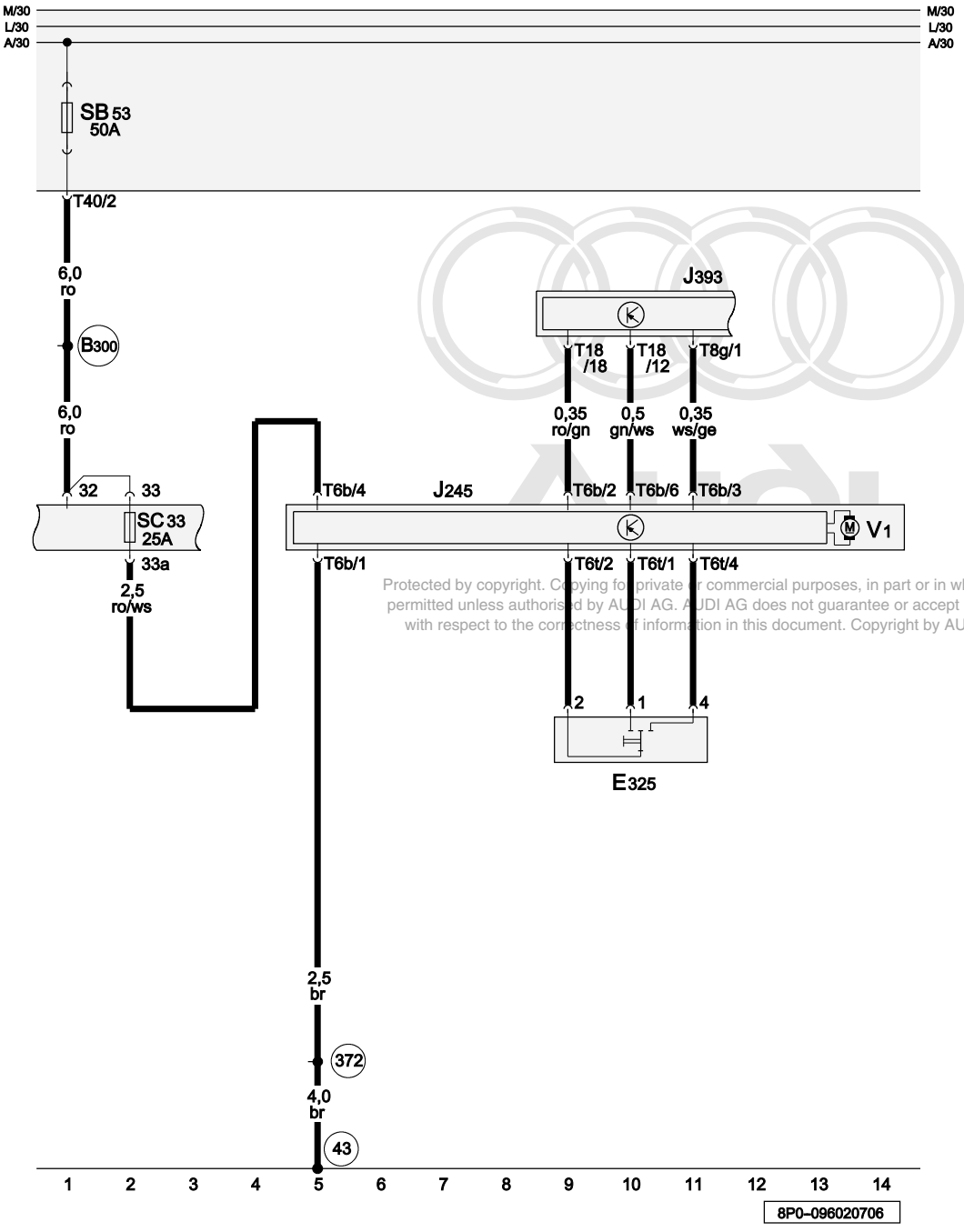
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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Sunroof button, sliding sunroof adjustment control unit

E325	Sunroof button
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
SB53	Fuse 53 on fuse holder
SC33	Fuse 33 on fuse holder
T6b	6-pin connector, blue (connector A)
T6t	6-pin connector, black (connector B)
T8g	8-pin connector, black (connector B)
T18	18-pin connector, brown (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V1	Sliding sunroof motor
43	Earth point, lower part of right A-pillar
372	Earth connection 7, in main wiring harness
B300	Positive connection 4 (30), in main wiring harness

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sw	=	black
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br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
rs	=	pink

Multifunction steering wheel

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

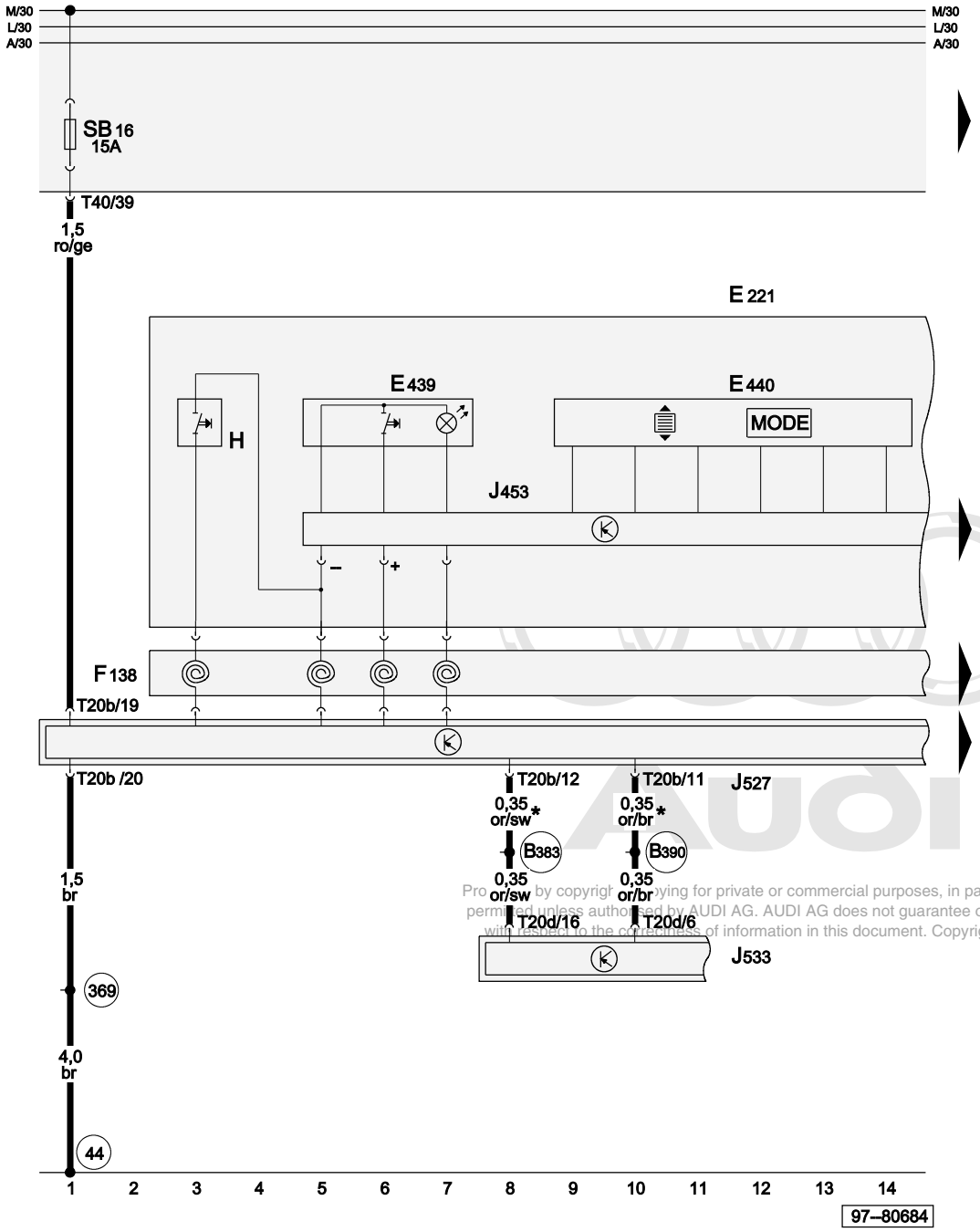
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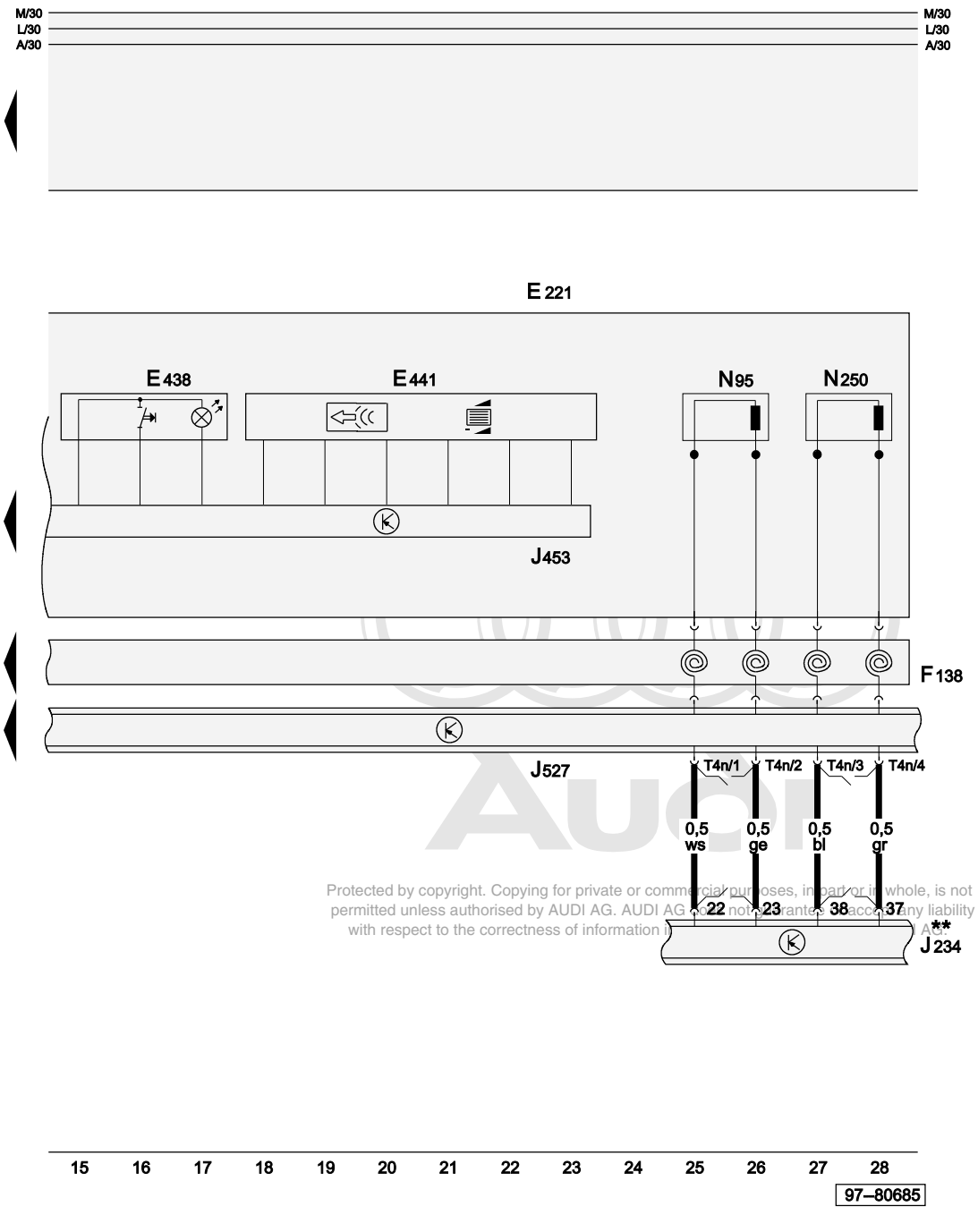


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gr = grey
li = purple
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rs = pink

Multifunction buttons on left in steering wheel

E221	Operating unit in steering wheel
E439	Tiptronic switch in steering wheel to shift down
E440	Multifunction buttons on left in steering wheel
F138	Airbag coil connector and return spring with slip ring
H	Horn plate
J453	Multifunction steering wheel control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	⇒ Applicable Current Flow Diagram: automatic gearbox

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Multifunction buttons on right in steering wheel

E221	Operating unit in steering wheel
E438	Tiptronic switch in steering wheel to shift up
E441	Multifunction buttons on right in steering wheel
F138	Airbag coil connector and return spring with slip ring
N95	Driver side airbag igniter
N250	Driver side airbag igniter 2
J234	Airbag control unit
J453	Multifunction steering wheel control unit
J527	Steering column electronics control unit
T4n	4-pin connector, yellow (connector B)
**	⇒ Applicable Current Flow Diagram: airbag
<fo:external-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/kurzbr_l.png" content-width="20pt" scaling="uniform"/>	Short circuit bridge becomes effective when connector is unplugged

Radio

⇒ **with US equipment**

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

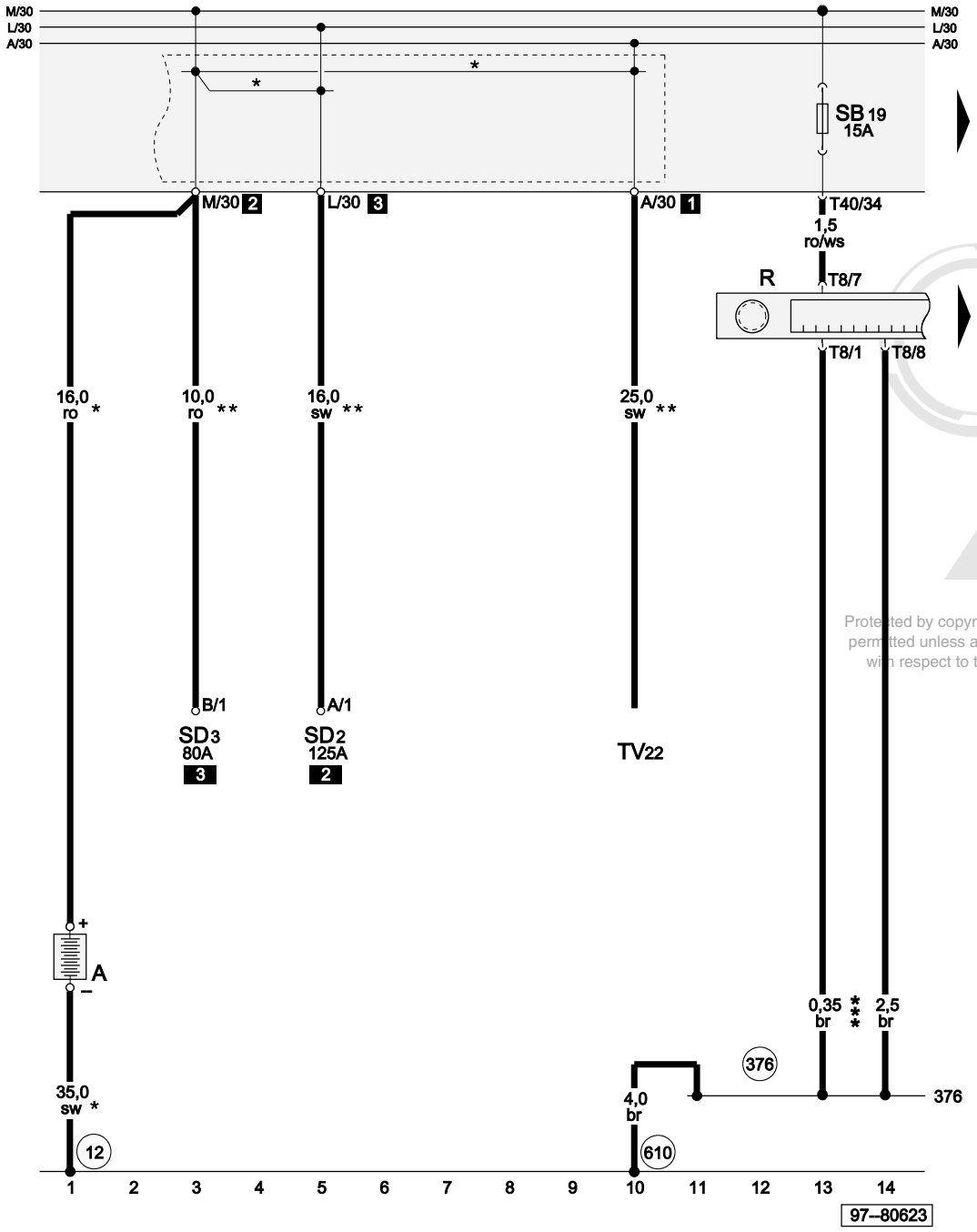
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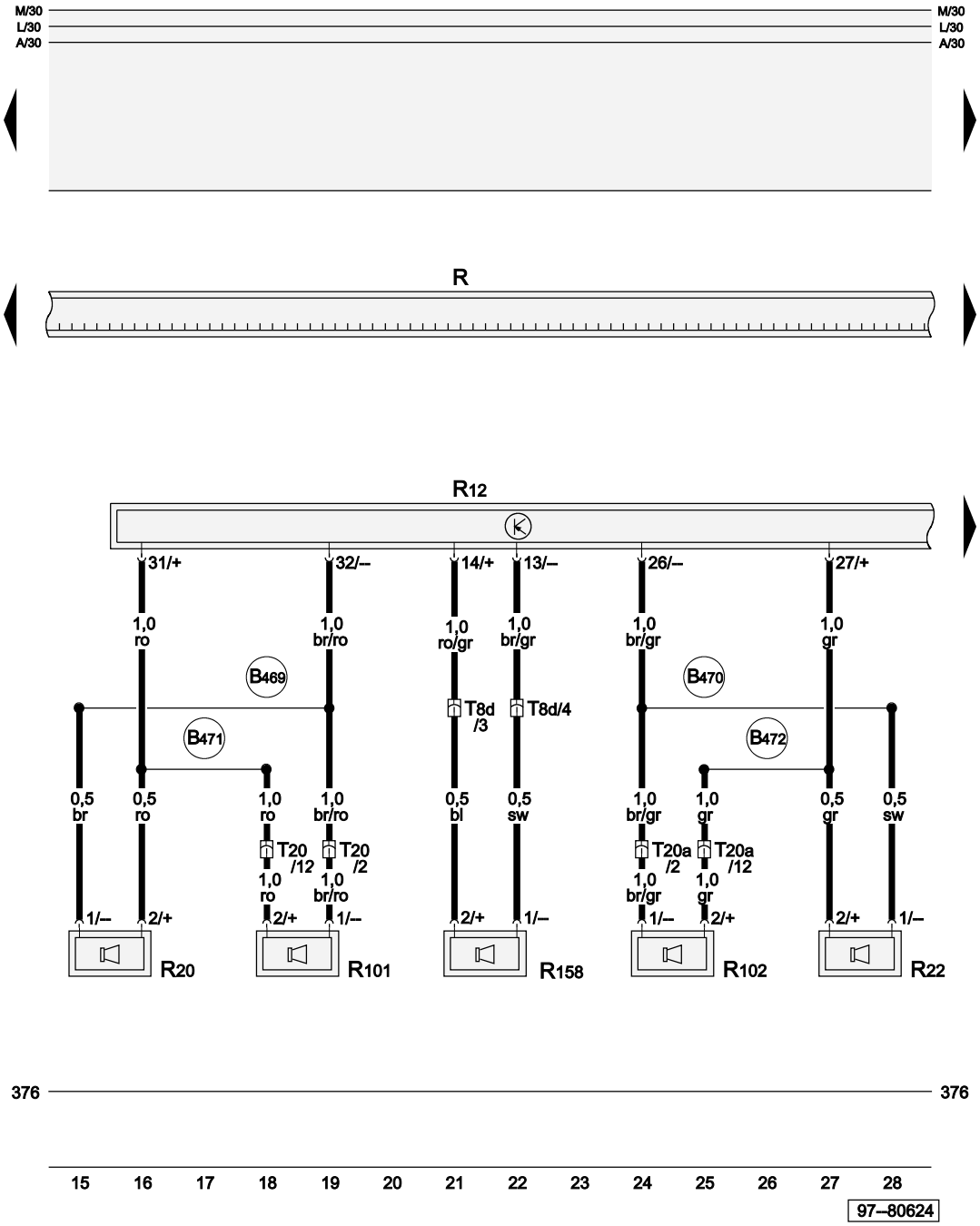


Battery, fuses on fuse holder

A	Battery
R	Radio
SB19	Fuse 19 on fuse holder B
SD2	Fuse 2 on fuse holder D
SD3	Fuse 3 on fuse holder D
T8	8-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
TV22	Terminal 30 wiring junction 2
(12)	Earth point, on left in engine compartment
(376)	Earth connection 11, in main wiring harness
(610)	Earth point (audio), under centre console, front
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only
***	for models with Bose sound system only

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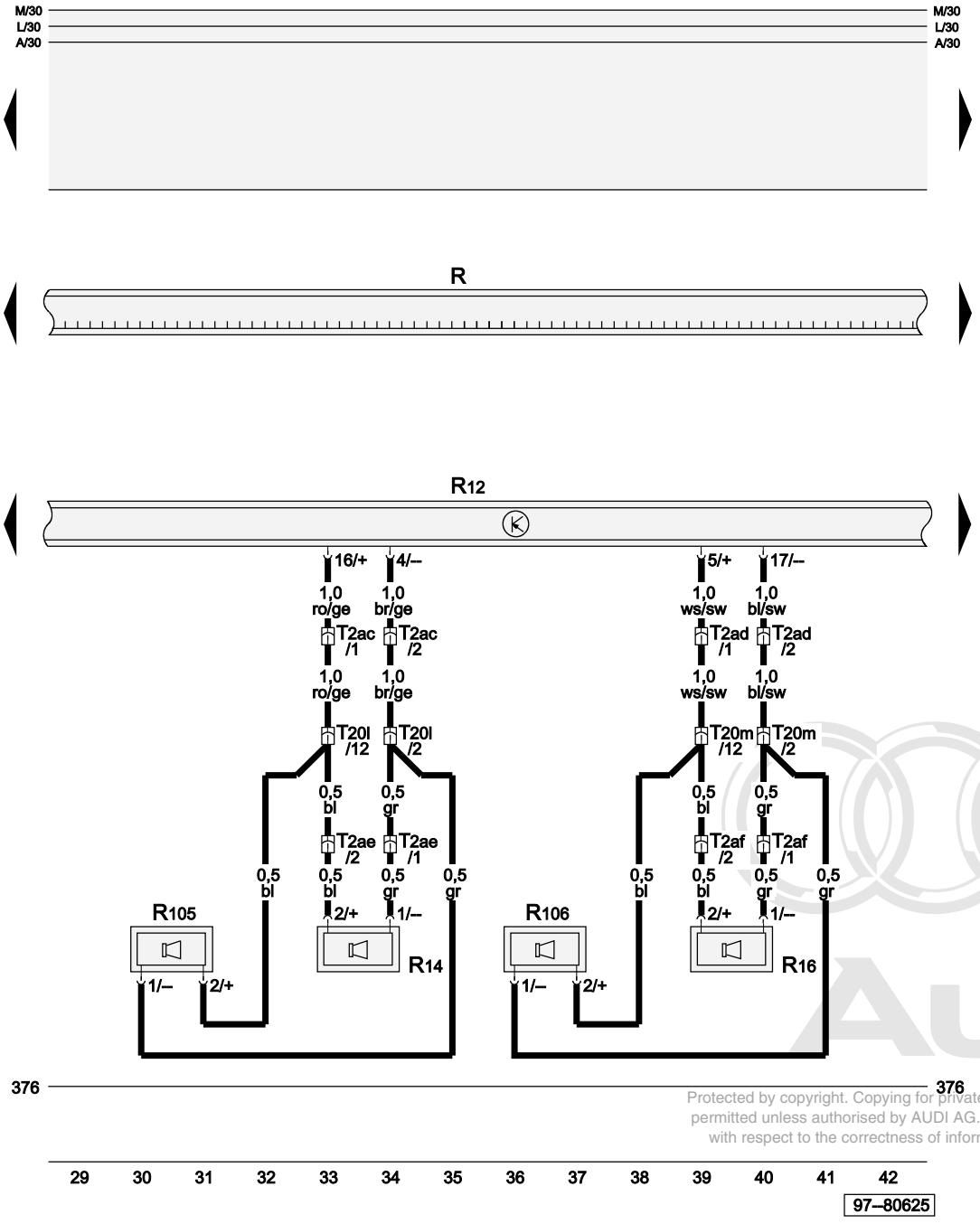


Front loudspeaker with Bose sound system

R	Radio
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B472	Connection 8, in main wiring harness

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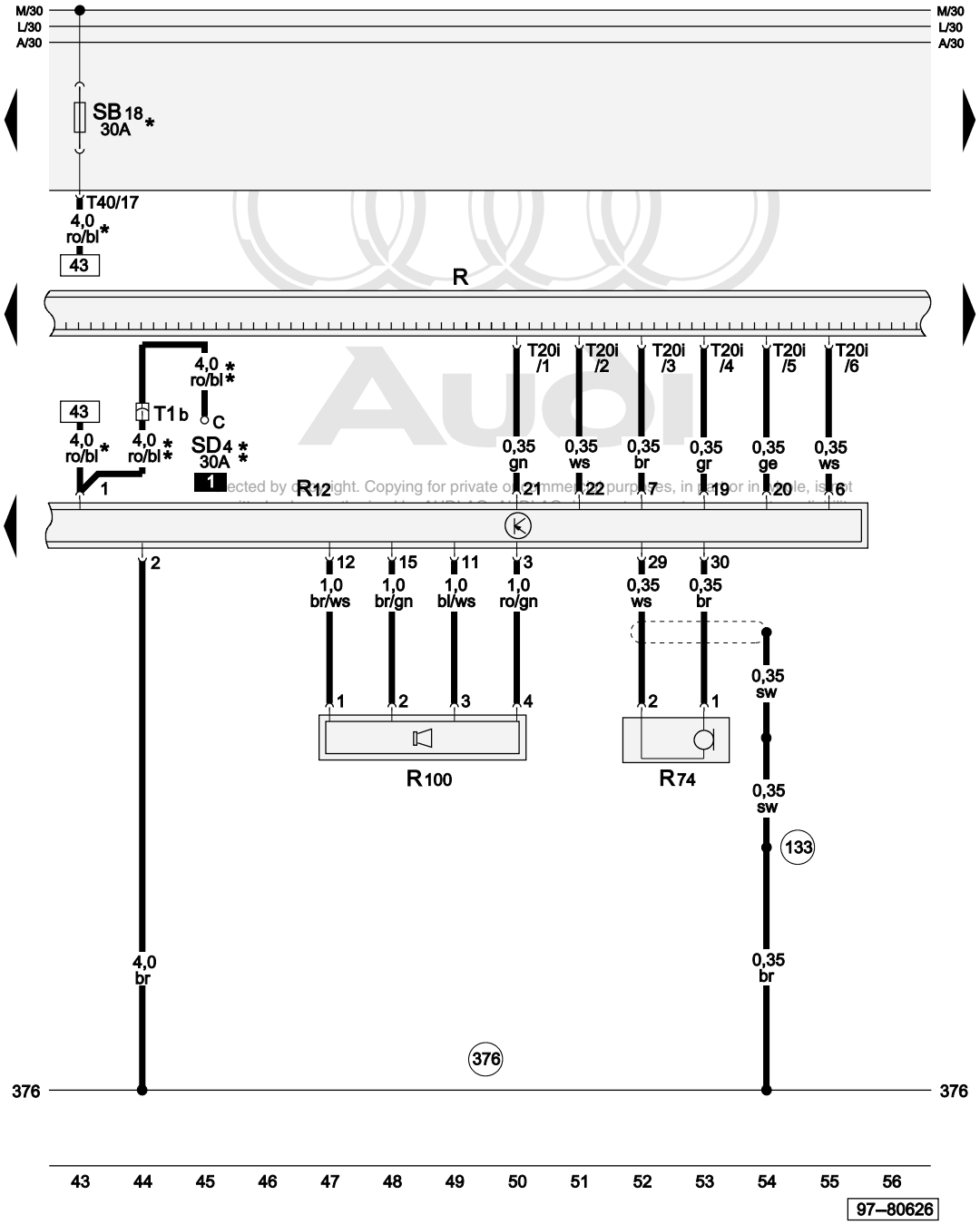


Rear loudspeaker with Bose sound system

R	Radio
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right

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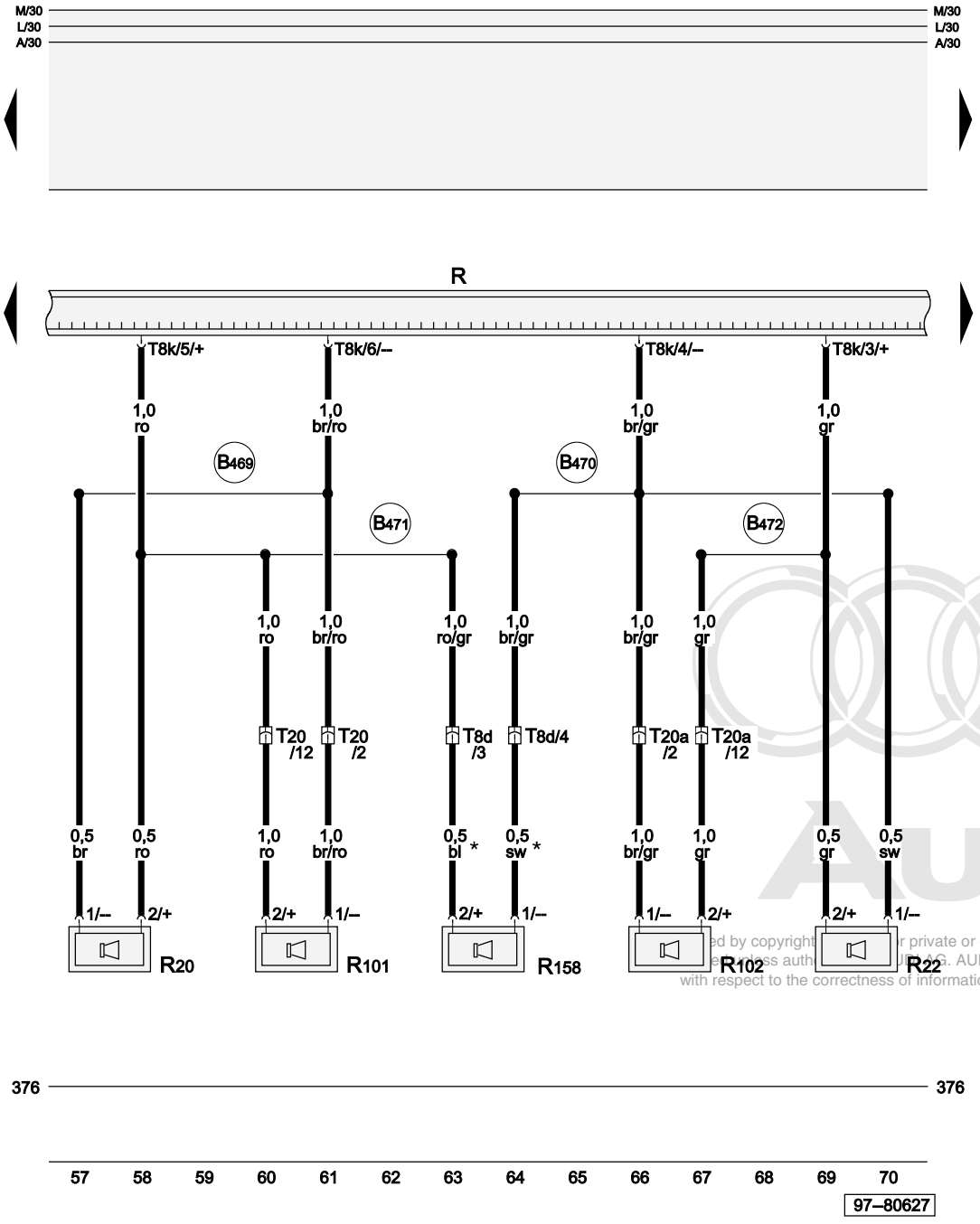


Internal microphone, bass loudspeaker with Bose sound system

R	Radio
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder B
SD4	Fuse 4 on fuse holder D
T1b	Single connector, black, on left C-pillar
T20i	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(133)	Earth connection, in loudspeaker wiring harness
(376)	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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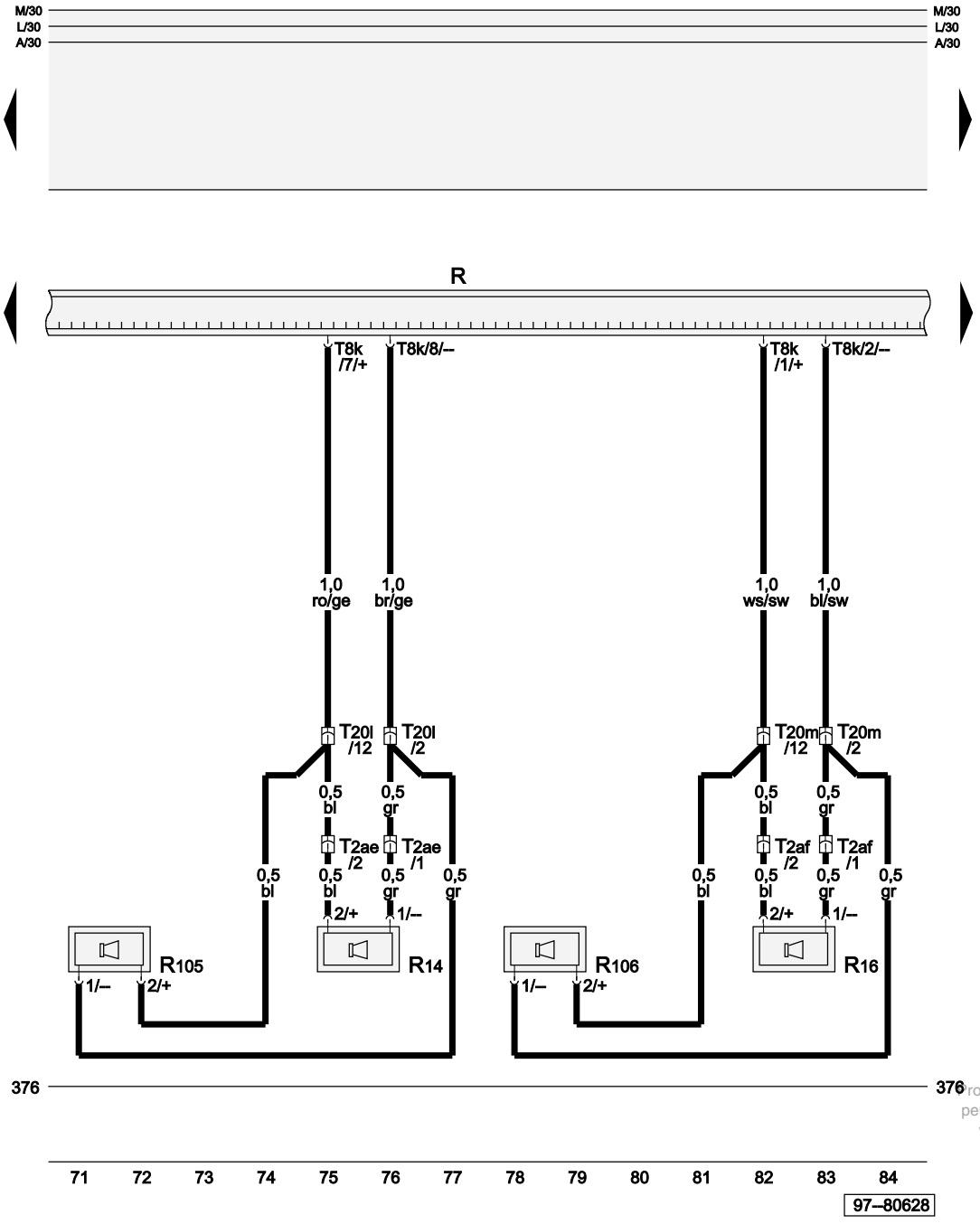
Front loudspeaker

R	Radio
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8k	8-pin connector, brown (connector B)
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B472	Connection 8, in main wiring harness
*	for models with amplifier only

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rs	=	pink

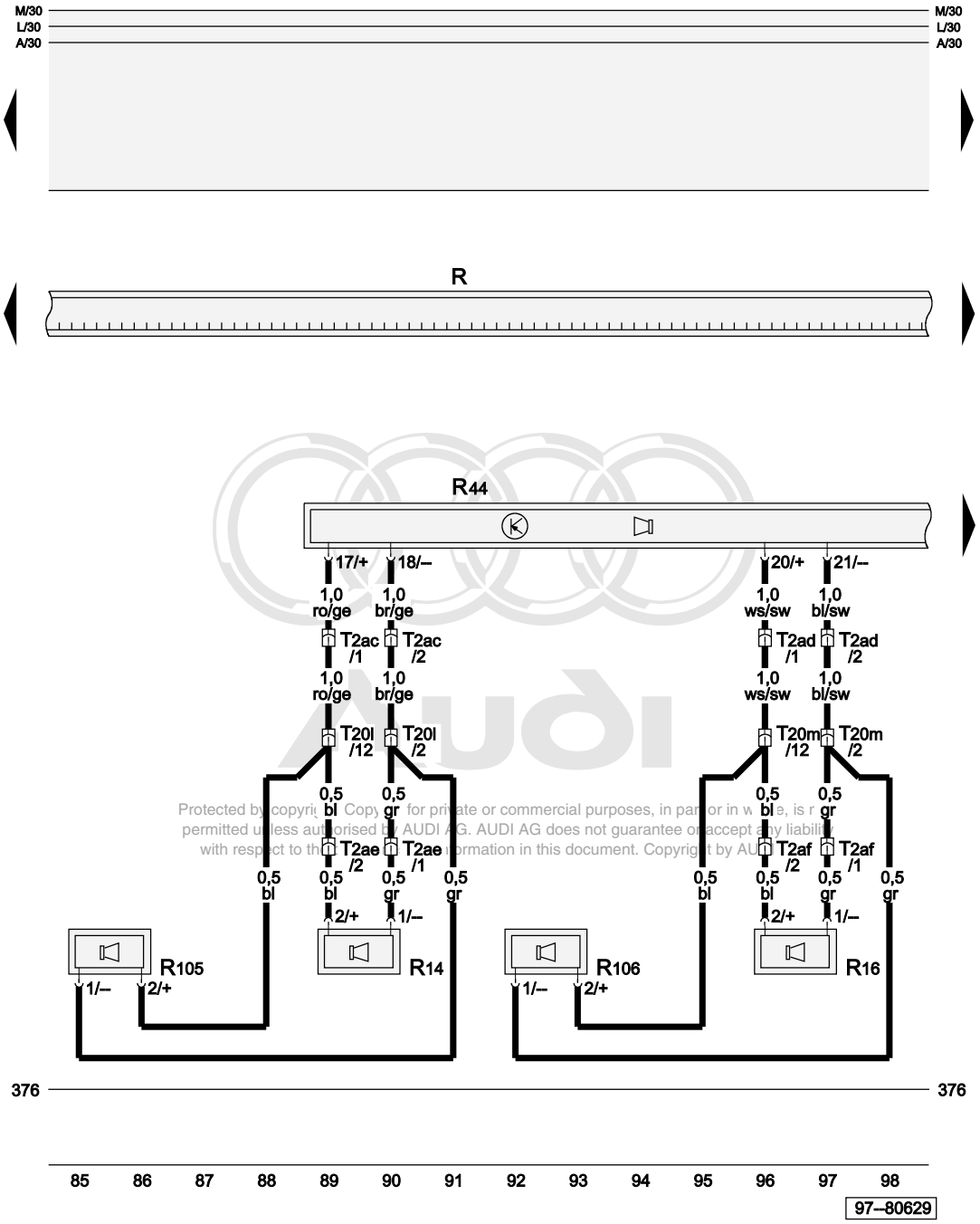


Rear loudspeaker without amplifier

R	Radio
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T8k	8-pin connector, brown (connector B)
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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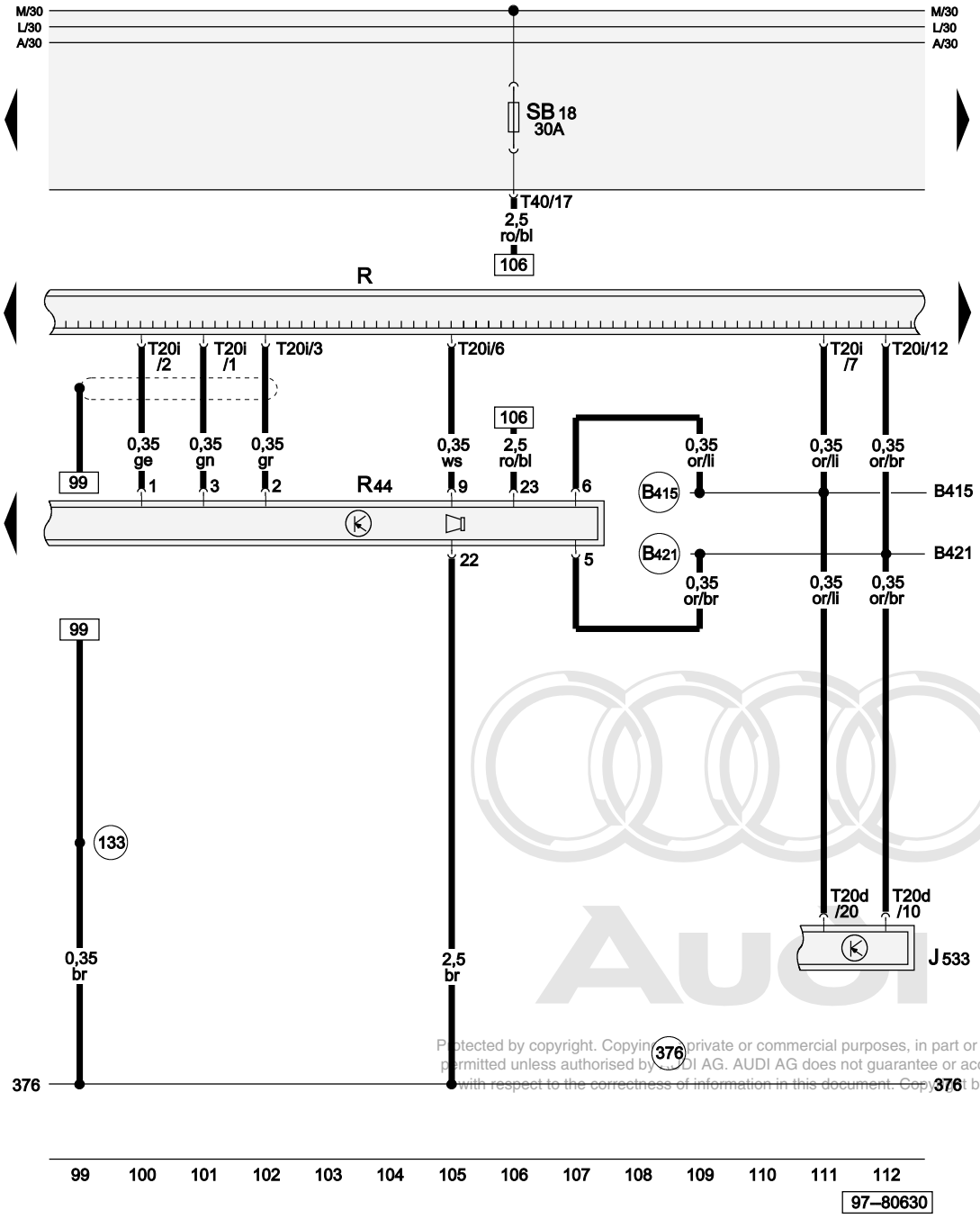


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Amplifier with bass loudspeaker, on left in luggage compartment, rear loudspeaker

R	Radio
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right

ws	=	white
sw	=	black
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gn	=	green
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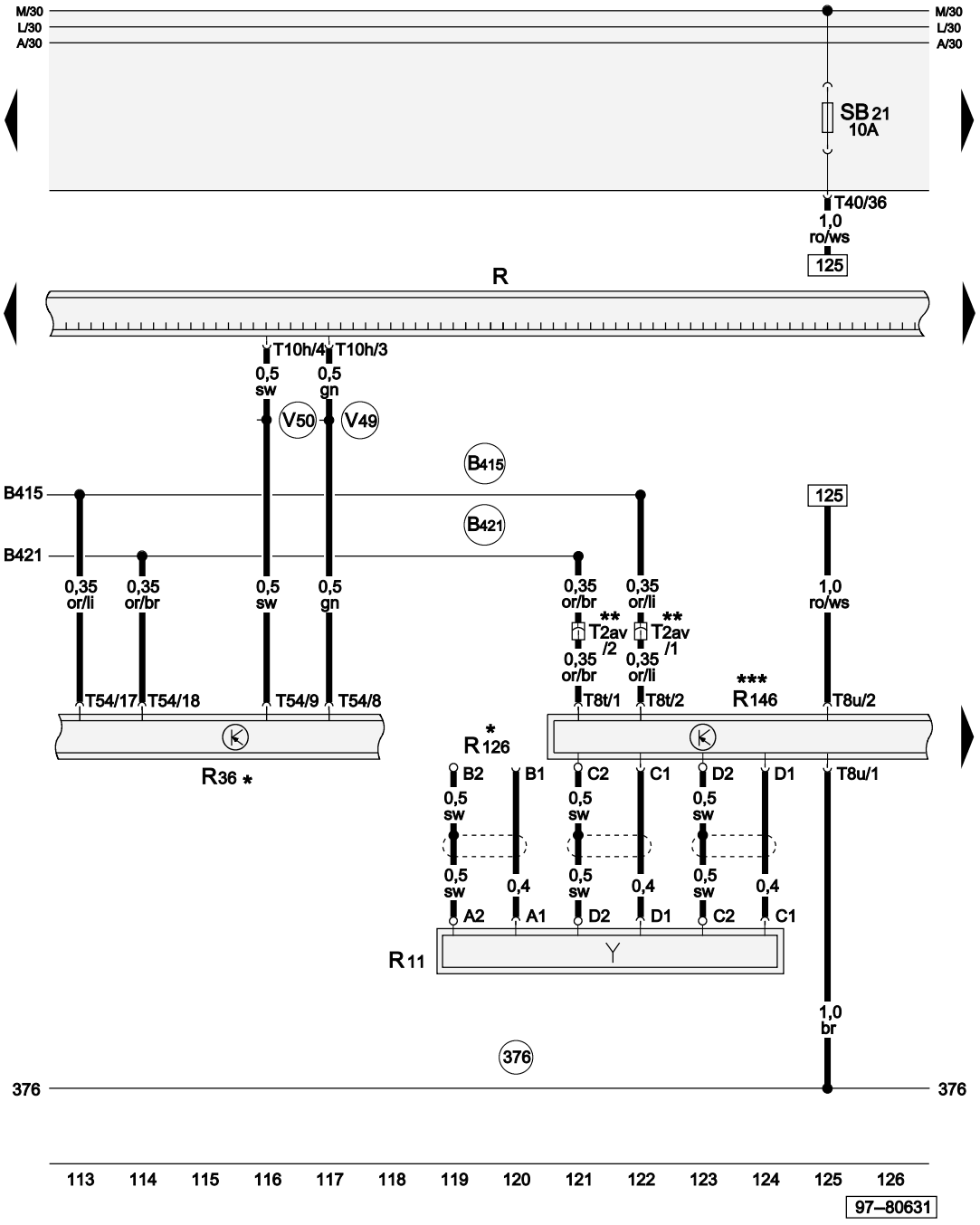


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ro = red
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Amplifier with bass loudspeaker, on left in luggage compartment

J533	Data bus diagnostic interface
R	Radio
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T20i	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

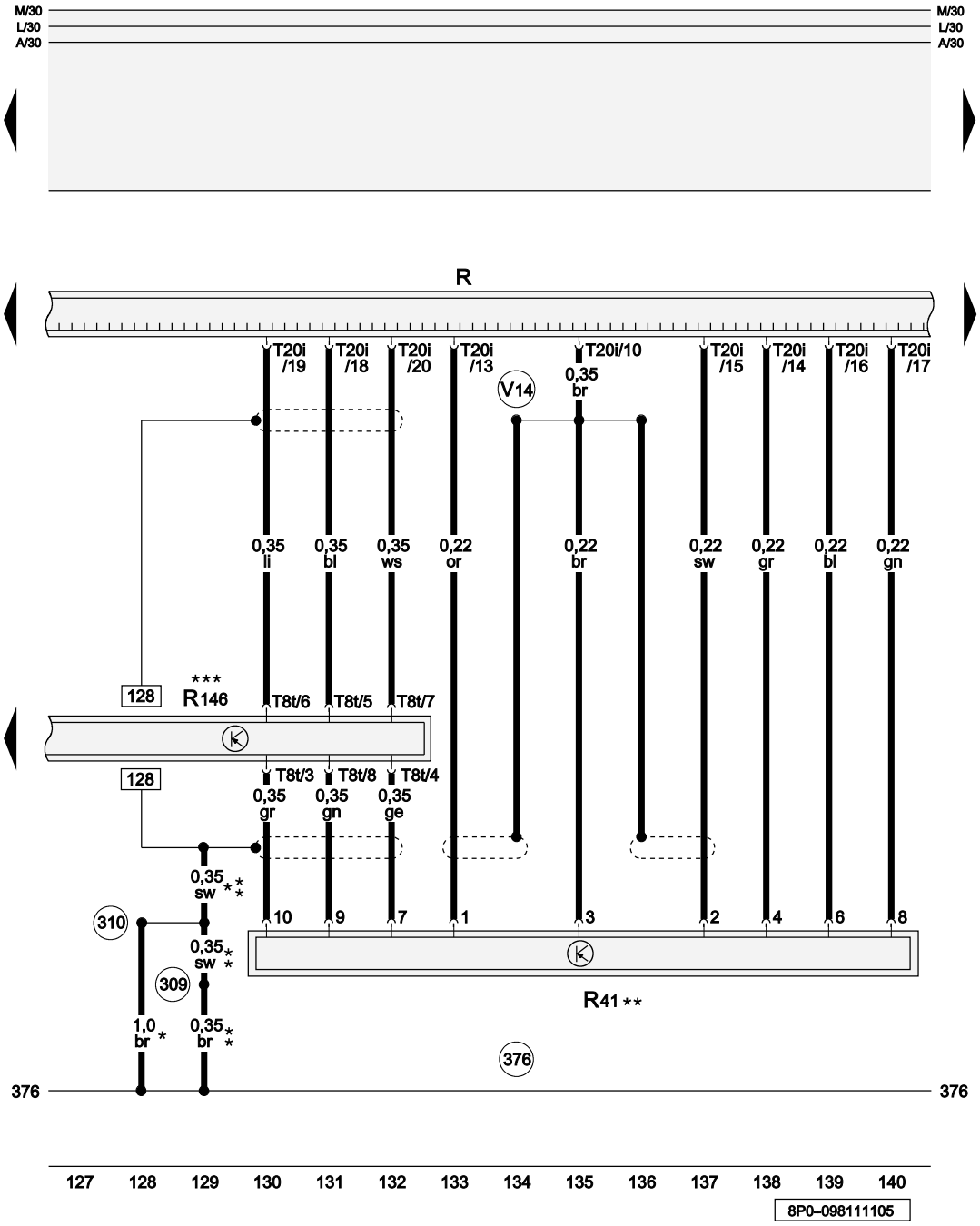


Satellite radio, telephone transmitter and receiver unit, roof aerial

R	Radio
R11	Aerial
R36	Telephone transmitter and receiver unit
R126	Telephone bracket
R146	Satellite radio
SB21	Fuse 21 on fuse holder B
T2av	2-pin connector, black, on right A-pillar
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T8u	8-pin connector, black (connector A)
T10h	10-pin connector, red (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T54	54-pin connector, black (connector A)
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with mobile telephone/ telephone only
**	for models with satellite radio preparation only
***	for models with satellite radio only

ws	=	white
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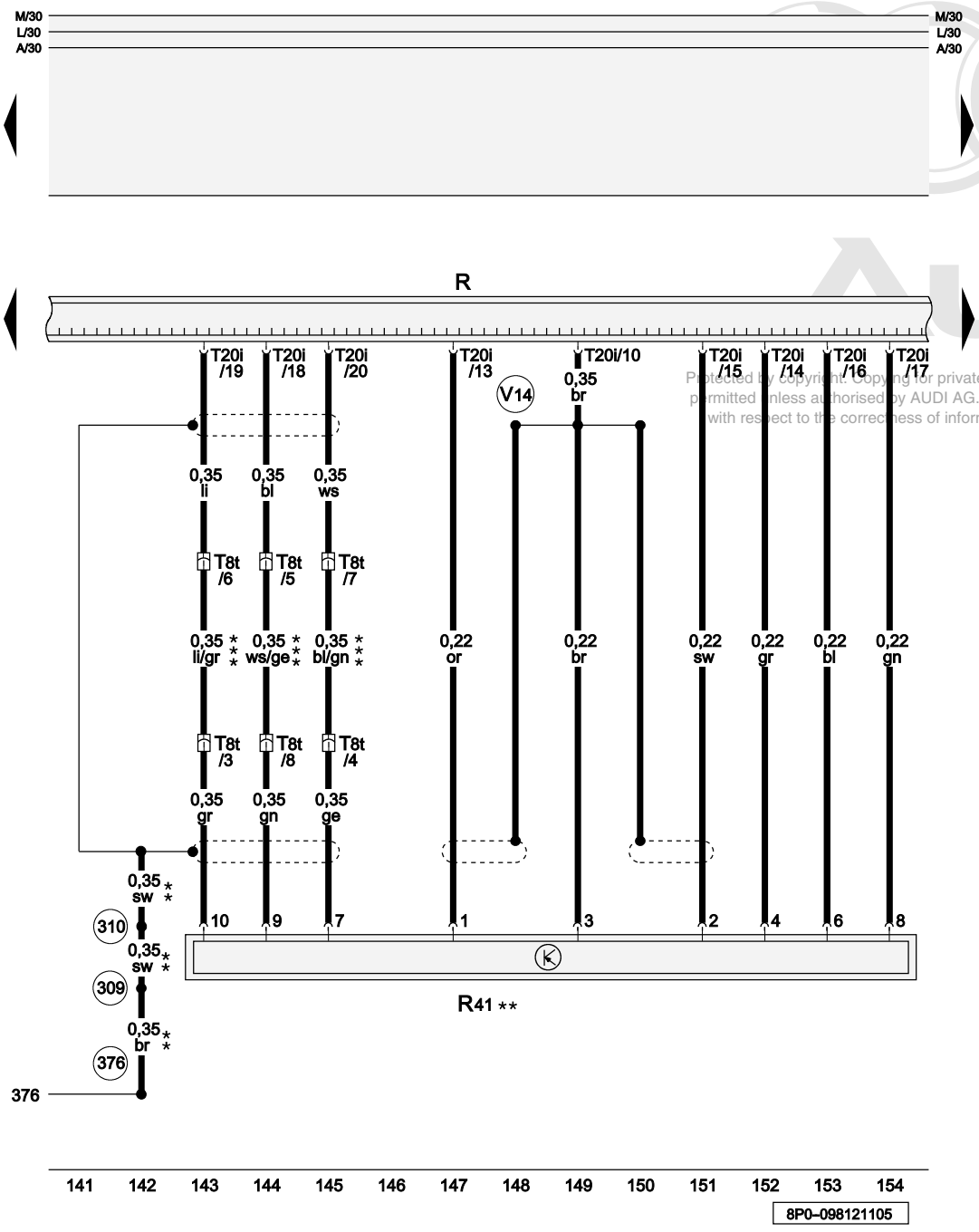


CD changer with satellite radio

R	Radio
R41	CD changer
R146	Satellite radio
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T20i	20-pin connector, black (connector A)
309	Earth connection 1, screening, in CD changer wiring harness
310	Earth connection 2, screening, in CD changer wiring harness
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
*	for models without CD changer only
**	for models with CD changer only
***	for models with satellite radio only

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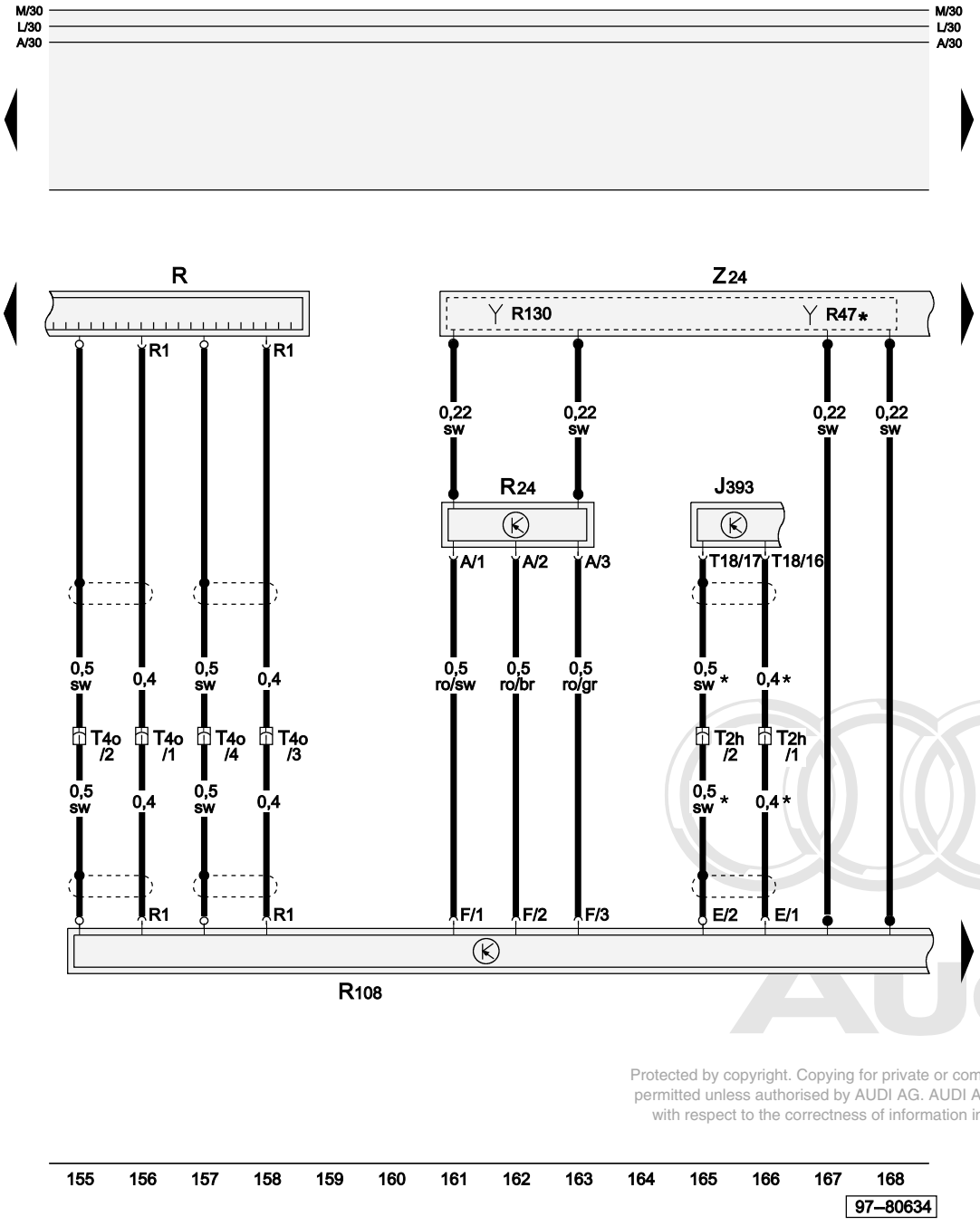


CD changer without satellite radio

R	Radio
R41	CD changer
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T20i	20-pin connector, black (connector A)
309	Earth connection 1, screening, in CD changer wiring harness
310	Earth connection 2, screening, in CD changer wiring harness
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
**	for models with CD changer only
***	for models without satellite radio only

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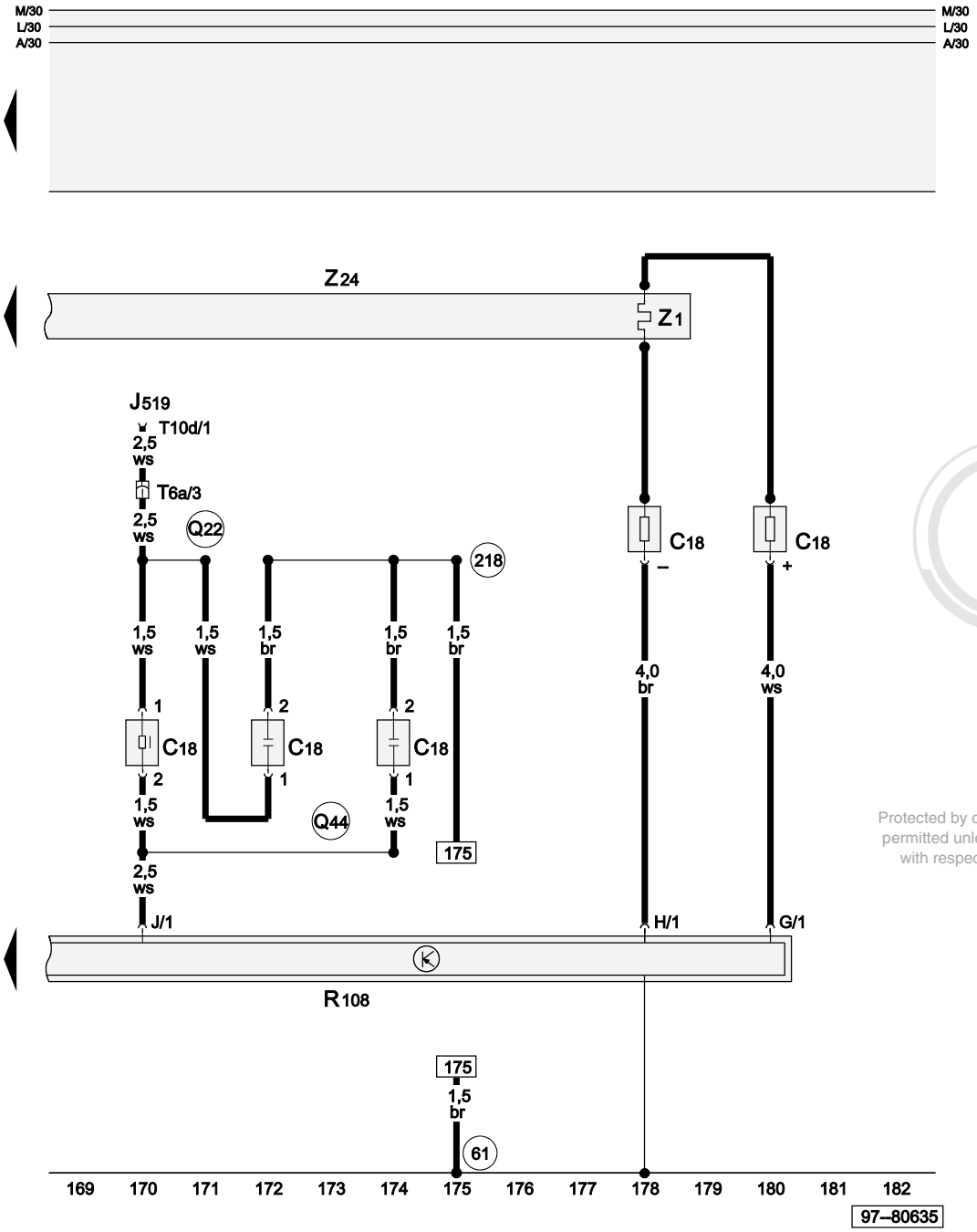


Left aerial module, rear window aerial 1

J393	Convenience system central control unit
R	Radio
R1	Aerial connection
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T4o	4-pin connector, near C-pillar right
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only

ws	=	white
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Left aerial module, window aerial suppression filter

C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness

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Radio and navigation system RNS-E

⇒ **with US equipment**

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

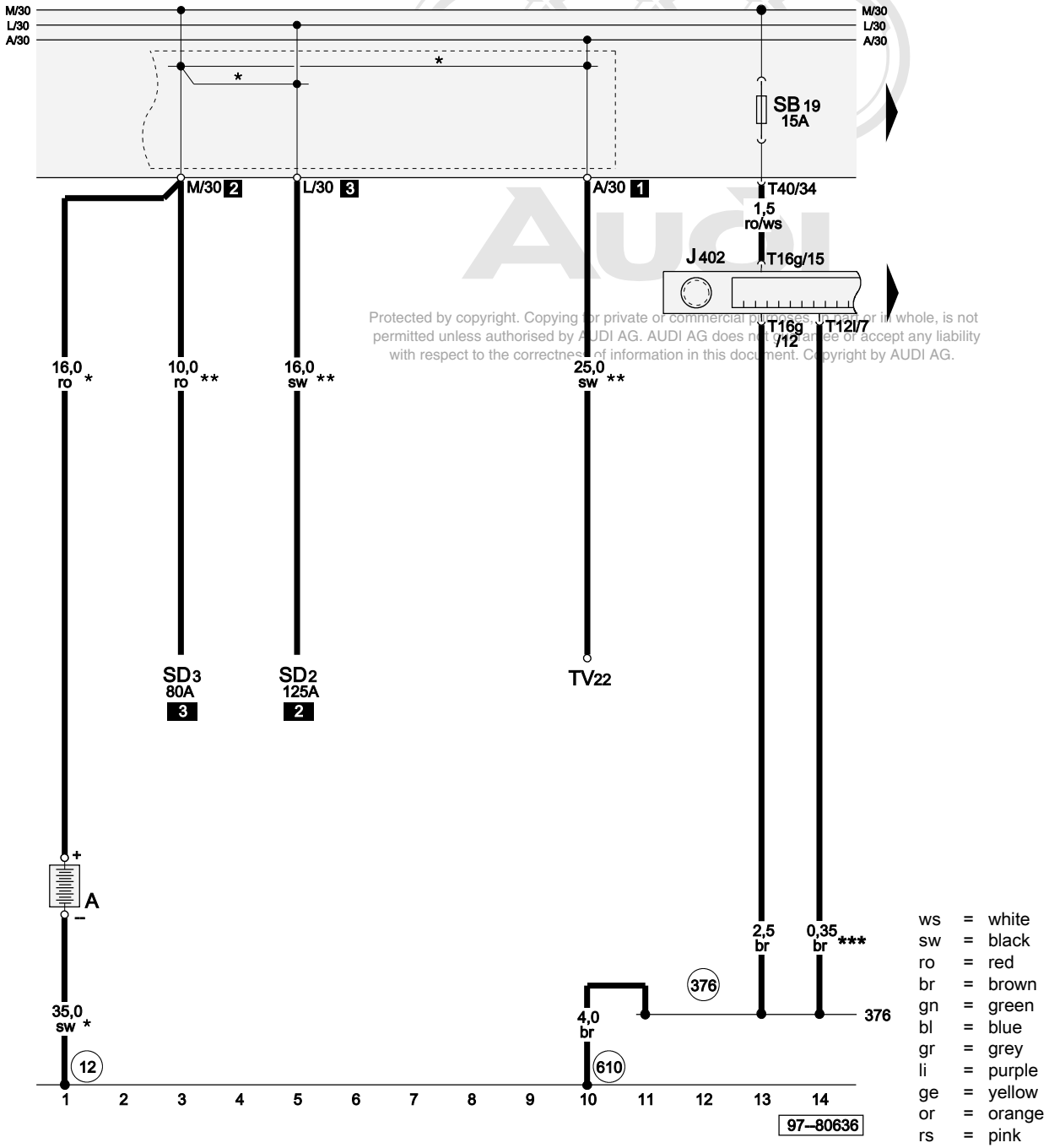
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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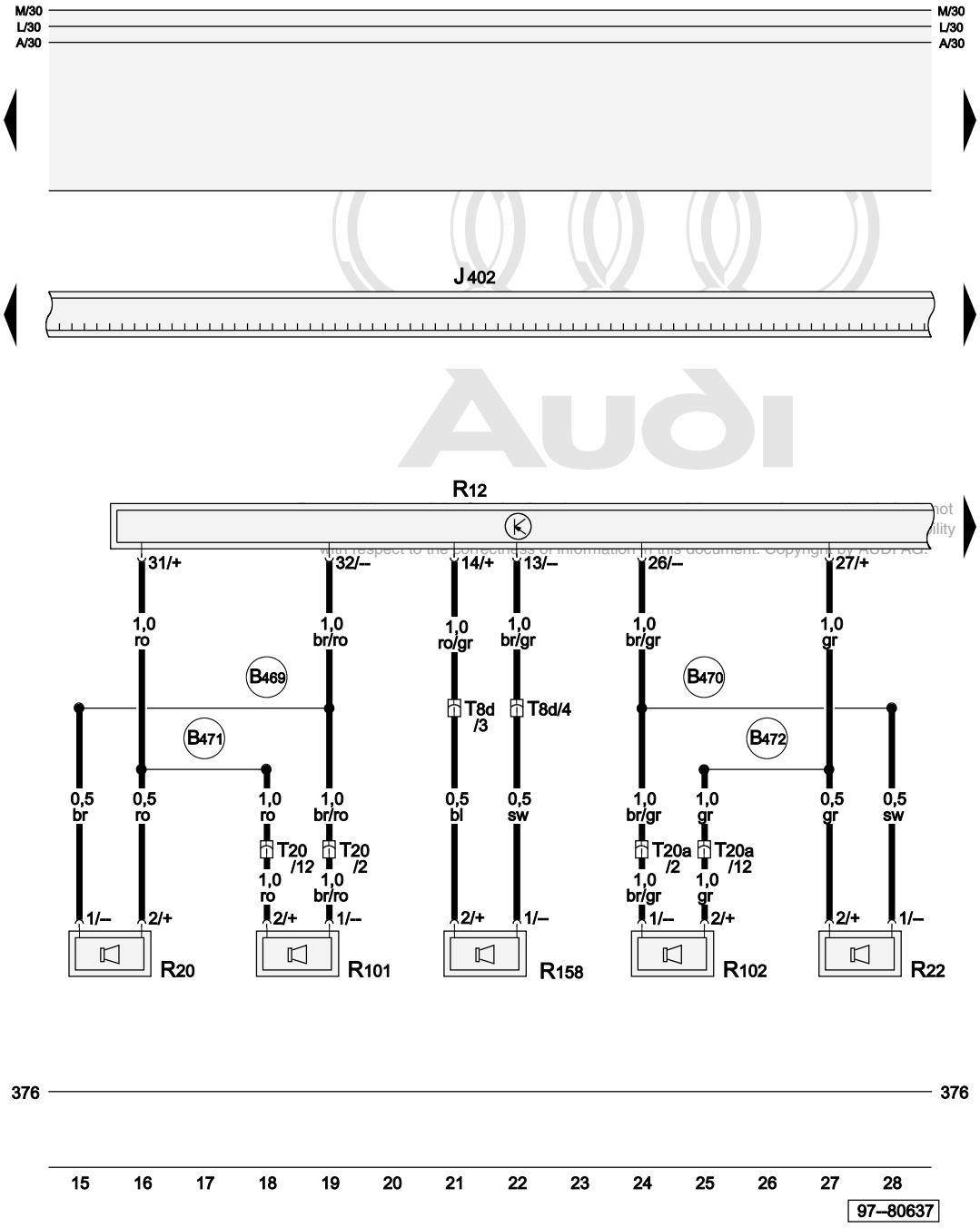


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Battery, fuses on fuse holder

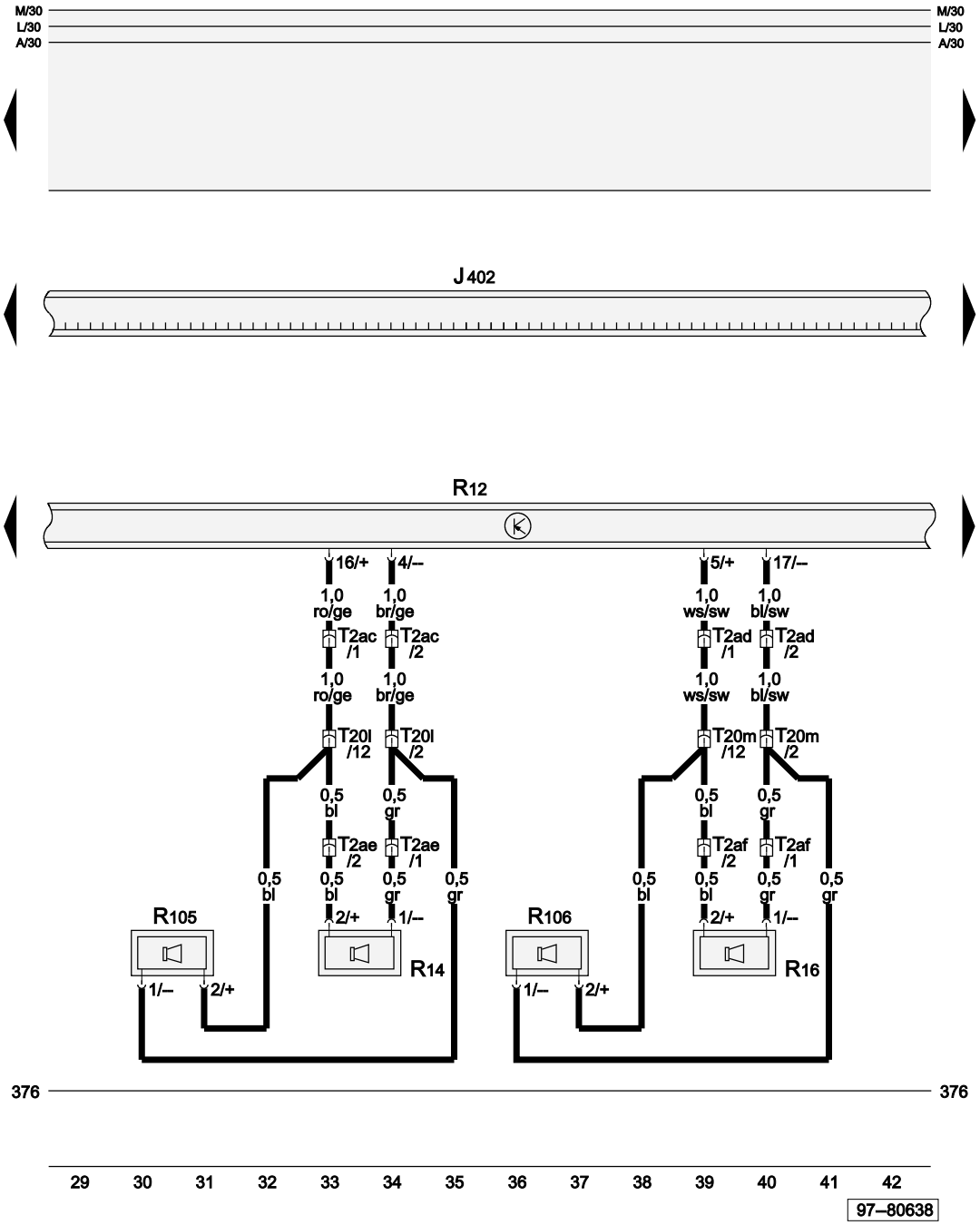
A	Battery
J402	Navigation operating electronics control unit
SB19	Fuse 19 on fuse holder B
SD2	Fuse 2 on fuse holder D
SD3	Fuse 3 on fuse holder D
T12l	12-pin connector, blue (connector B)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
TV22	Terminal 30 wiring junction 2
(12)	Earth point, on left in engine compartment
(376)	Earth connection 11, in main wiring harness
(610)	Earth point (audio), under centre console, front
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only
***	for models with Bose sound system only



Front loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B472	Connection 8, in main wiring harness

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rs	=	pink

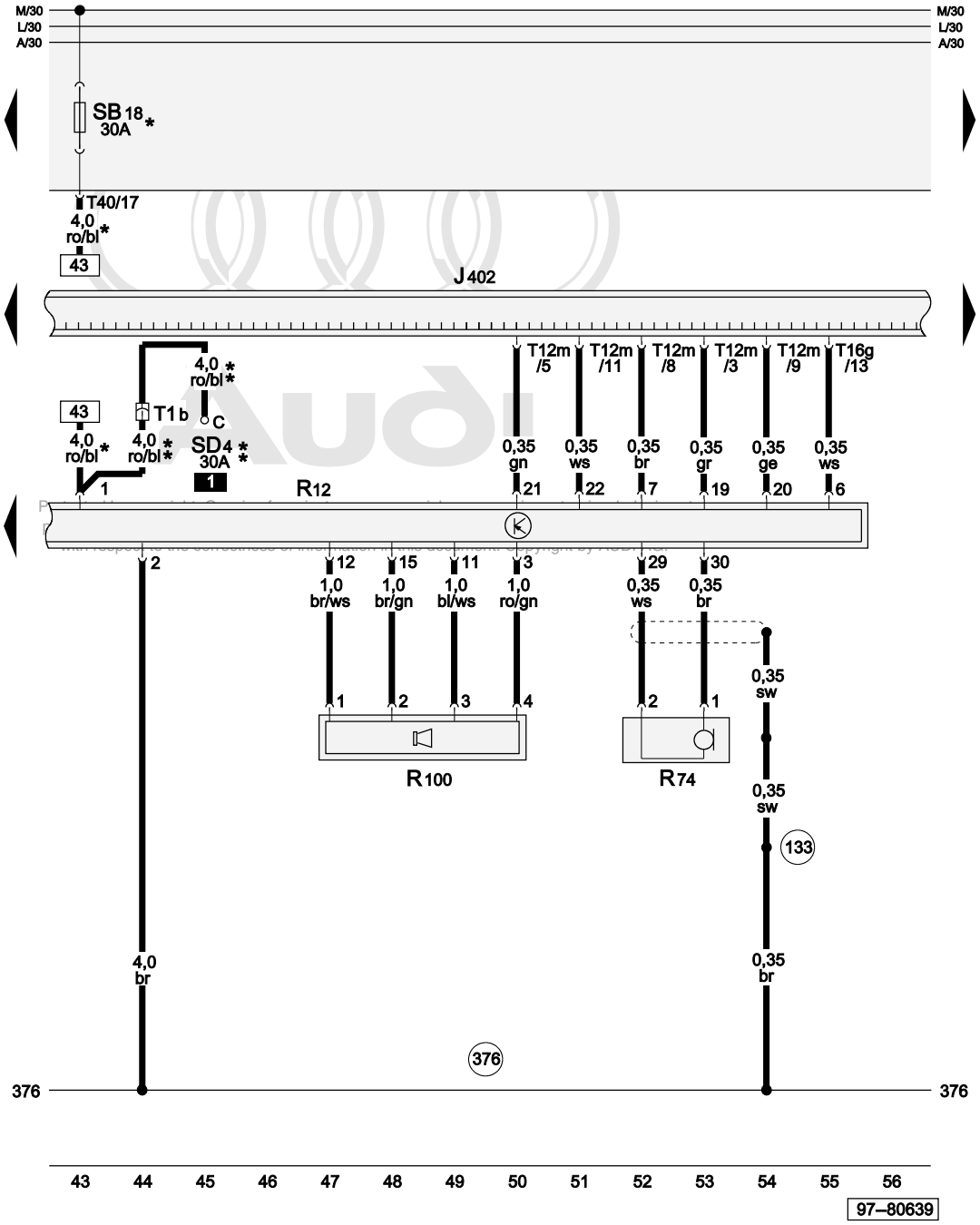


Rear loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right

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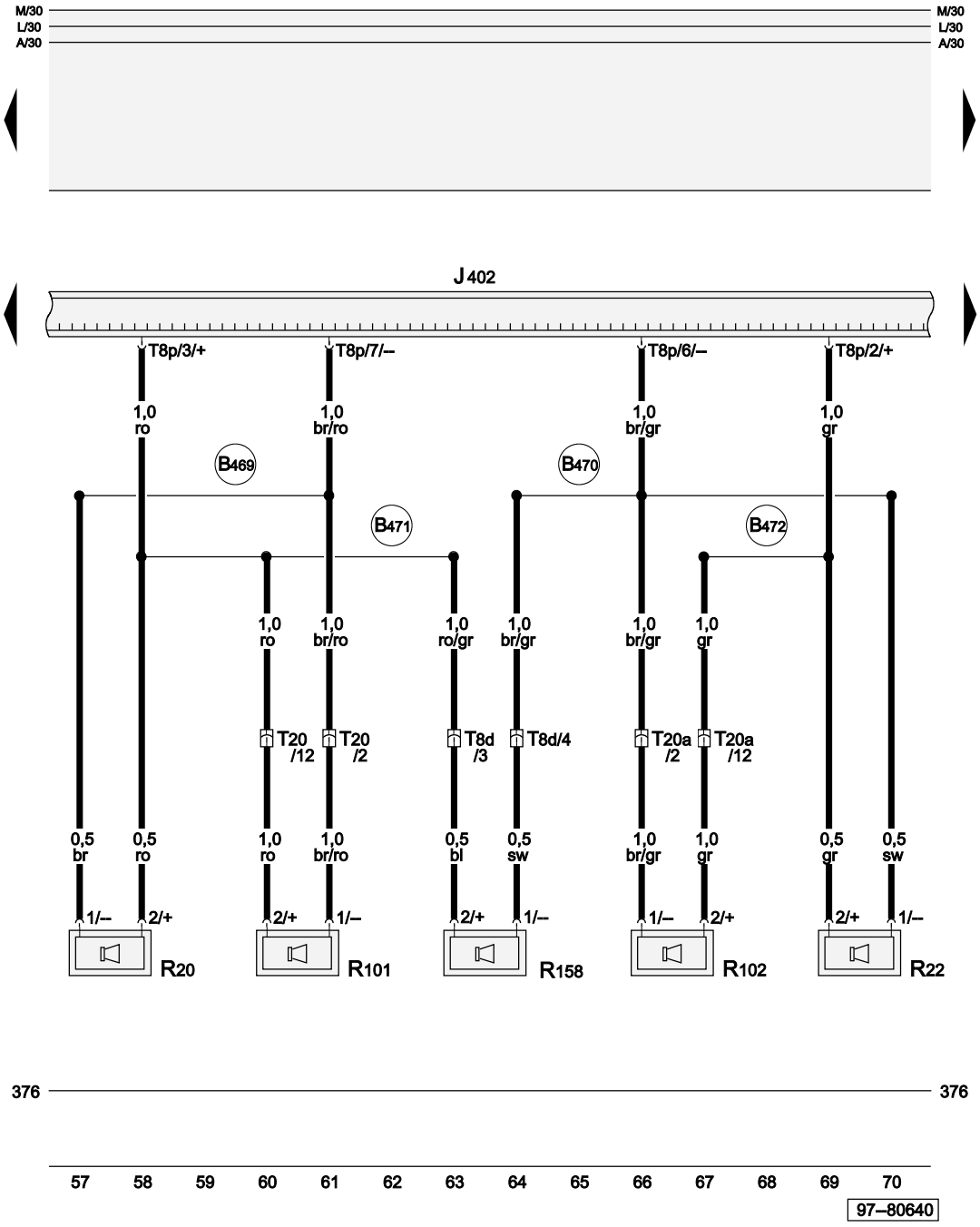
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Internal microphone, bass loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder B
SD4	Fuse 4 on fuse holder D
T1b	Single connector, black, on left C-pillar
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(133)	Earth connection, in loudspeaker wiring harness
(376)	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

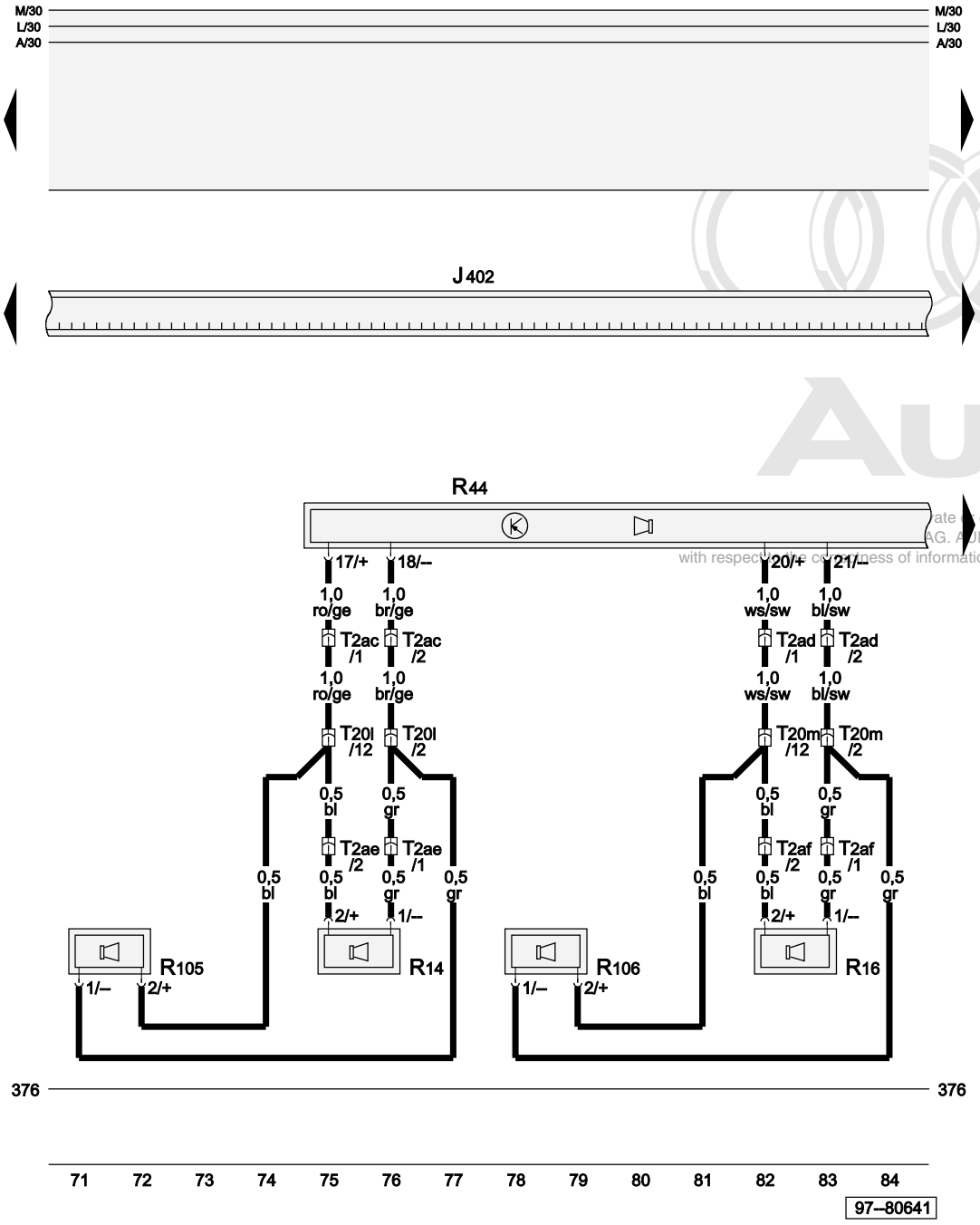


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Front loudspeaker

J402	Navigation operating electronics control unit
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8p	8-pin connector, brown (connector A)
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B472	Connection 8, in main wiring harness

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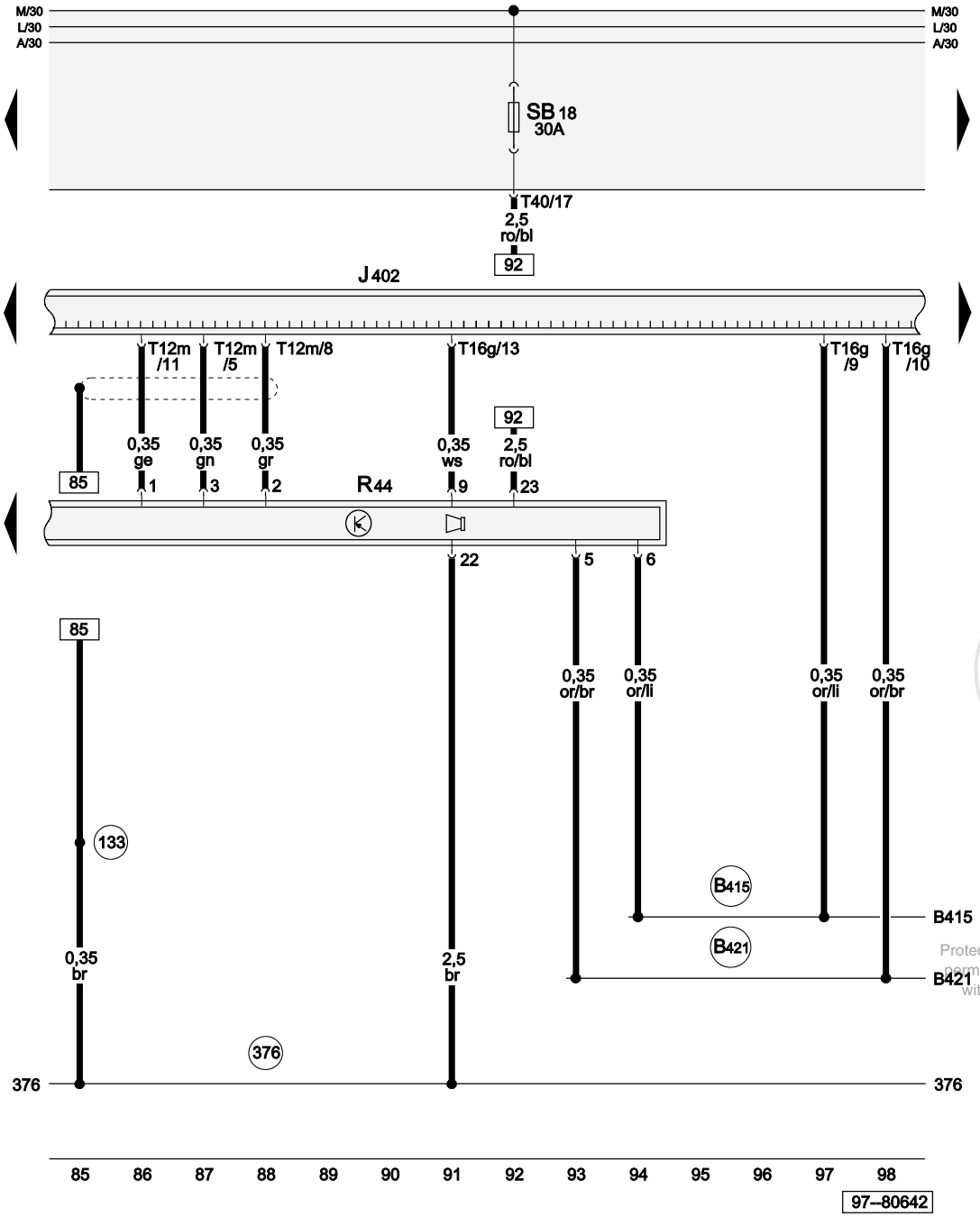


Amplifier with bass loudspeaker, on left in luggage compartment, rear loudspeaker

J402	Navigation operating electronics control unit
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right

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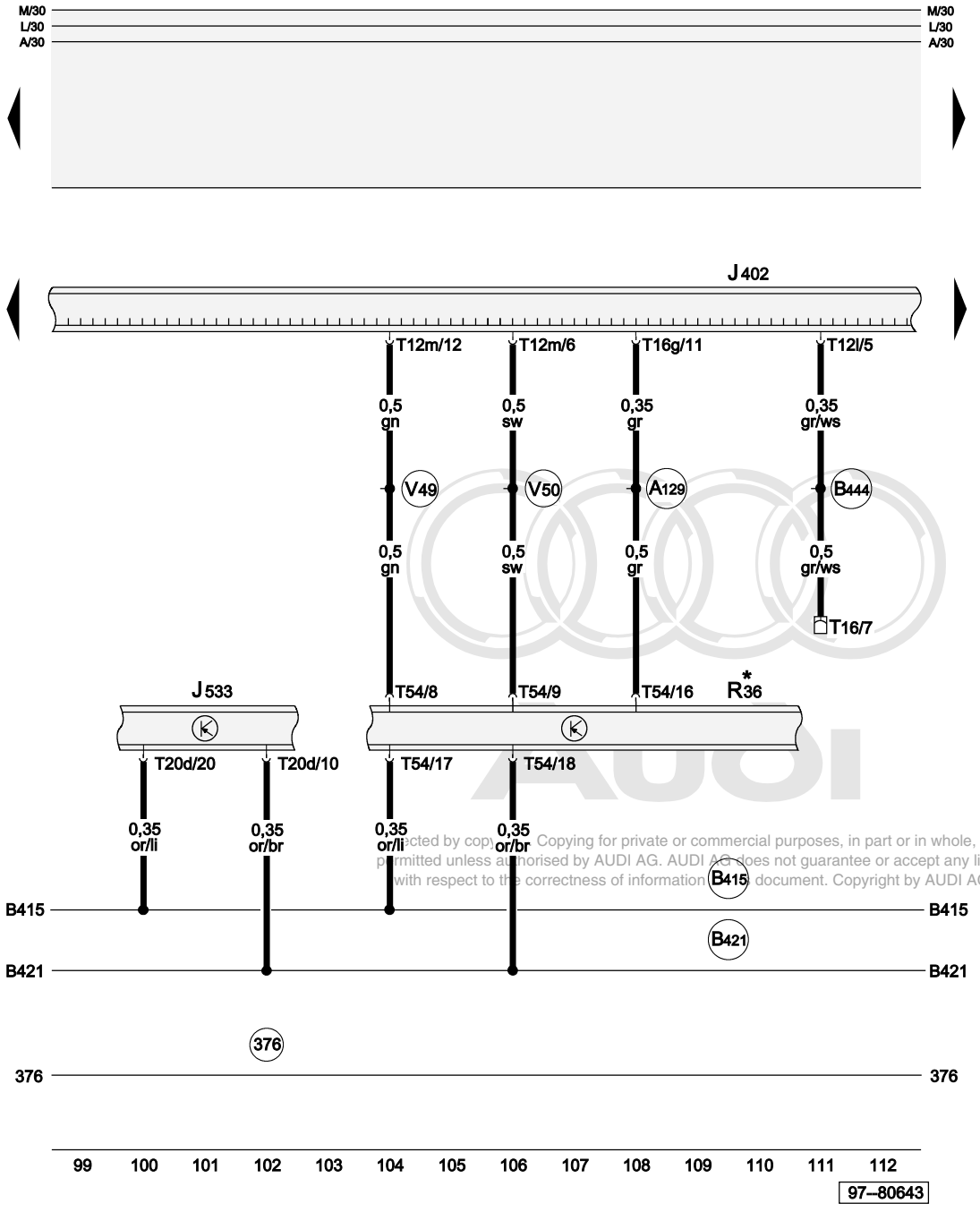


Amplifier with bass loudspeaker, on left in luggage compartment

J402	Navigation operating electronics control unit
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder B
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

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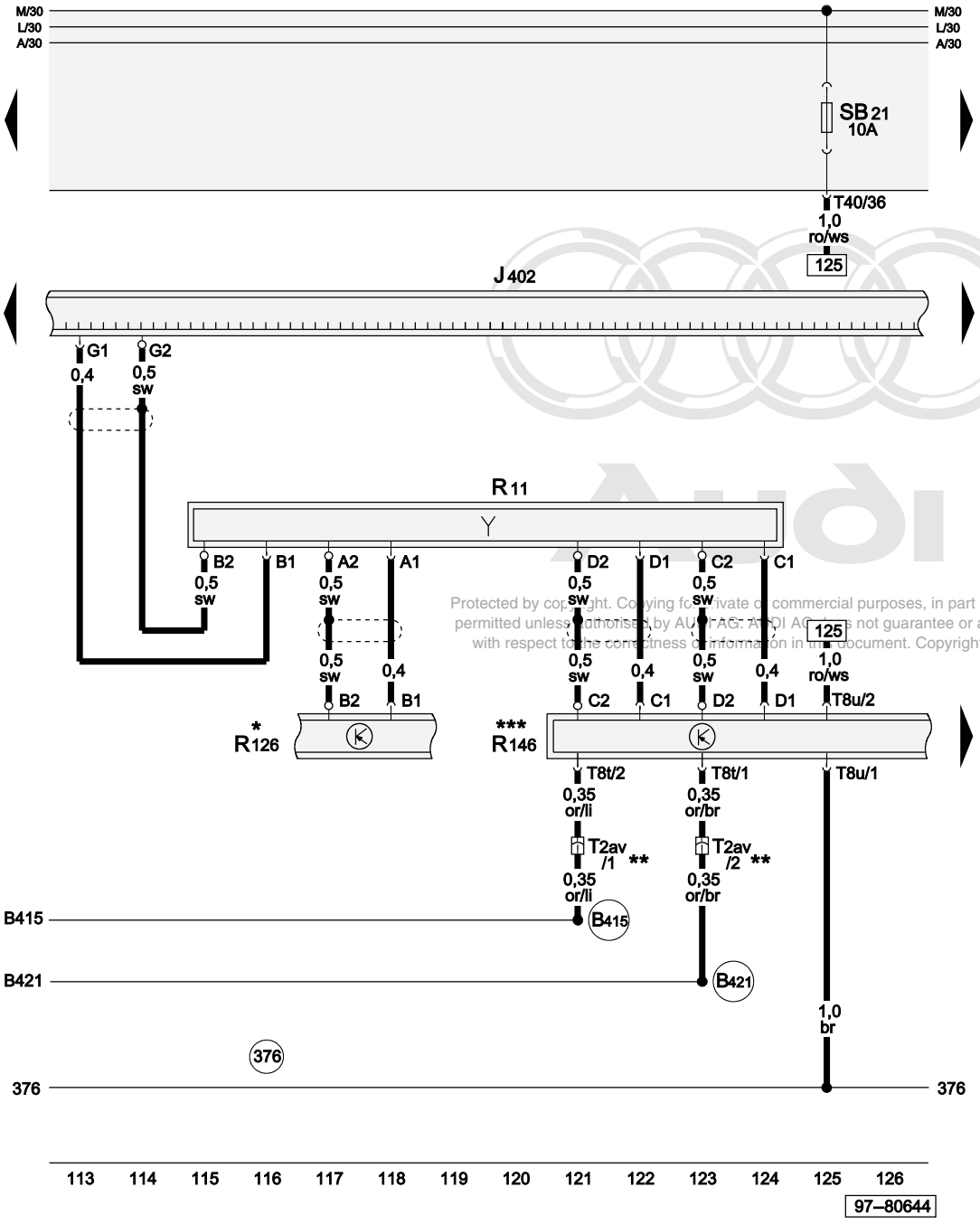


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Data bus diagnostic interface, telephone transmitter and receiver unit

J402	Navigation operating electronics control unit
J533	Data bus diagnostic interface
R36	Telephone transmitter and receiver unit
T12l	12-pin connector, blue (connector B)
T12m	12-pin connector, black (connector C, connector locking green)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T54	54-pin connector, black (connector A)
376	Earth connection 11, in main wiring harness
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with mobile telephone/ telephone only

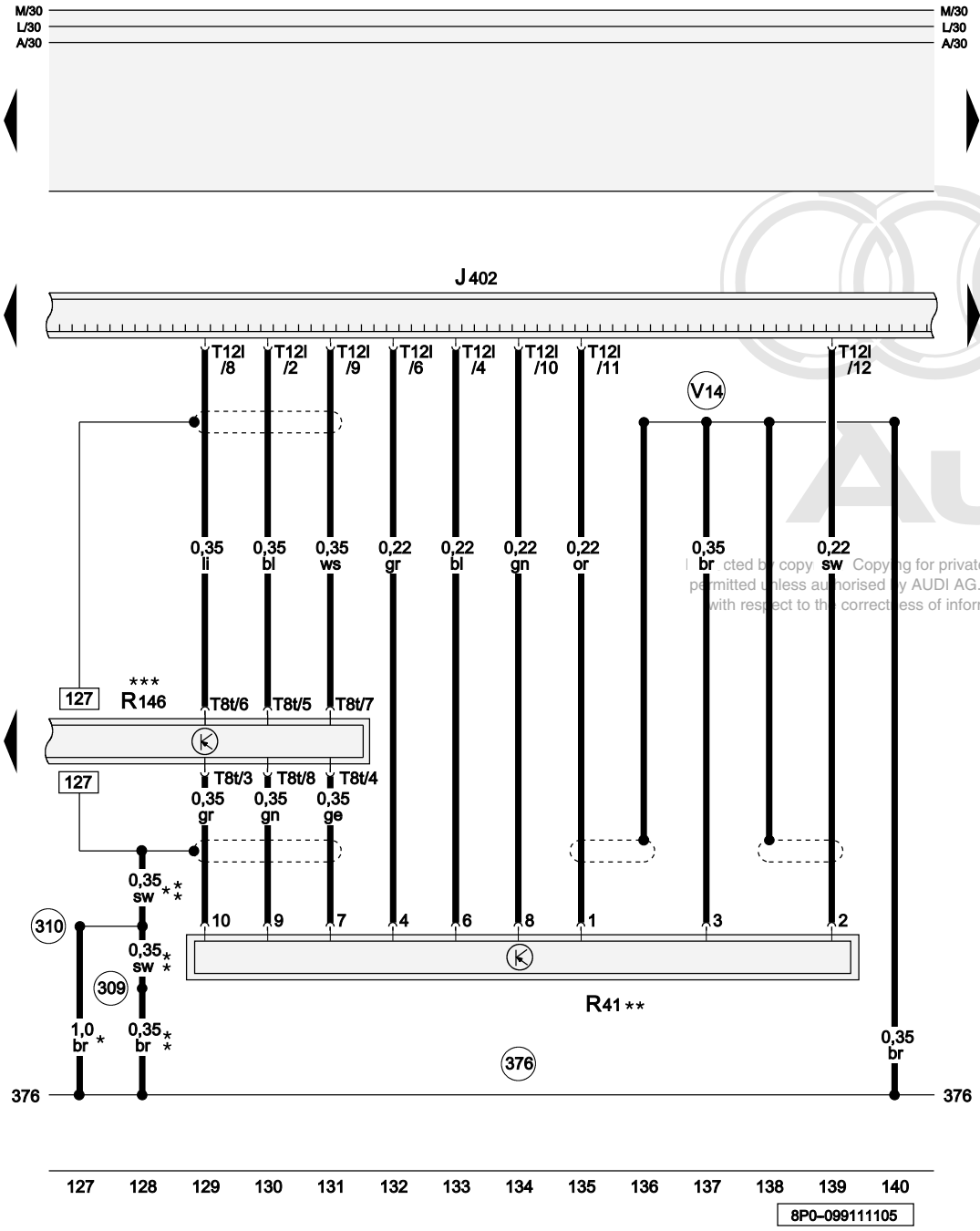


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Roof aerial, telephone transmitter and receiver unit

J402	Navigation operating electronics control unit
R11	Aerial
R126	Telephone bracket
R146	Satellite radio
SB21	Fuse 21 on fuse holder B
T2av	2-pin connector, black, on right A-pillar
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T8u	8-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	for models with mobile telephone/ telephone only
**	for models with satellite radio preparation only
***	for models with satellite radio only

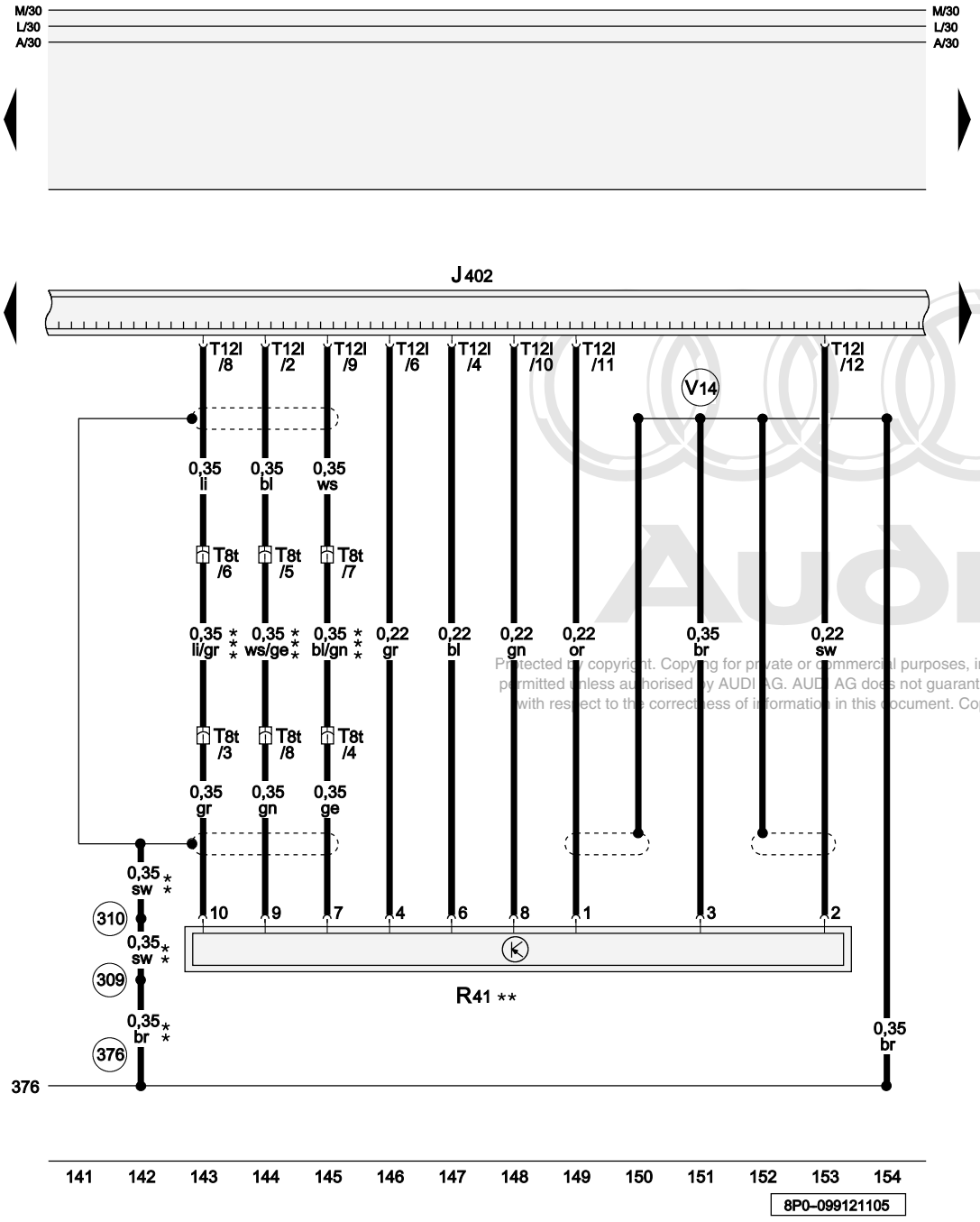


CD changer with satellite radio

J402	Navigation operating electronics control unit
R41	CD changer
R146	Satellite radio
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T12l	12-pin connector, blue (connector B)
309	Earth connection 1, screening, in CD changer wiring harness
310	Earth connection 2, screening, in CD changer wiring harness
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
*	for models without CD changer only
**	for models with CD changer only
***	for models with satellite radio only

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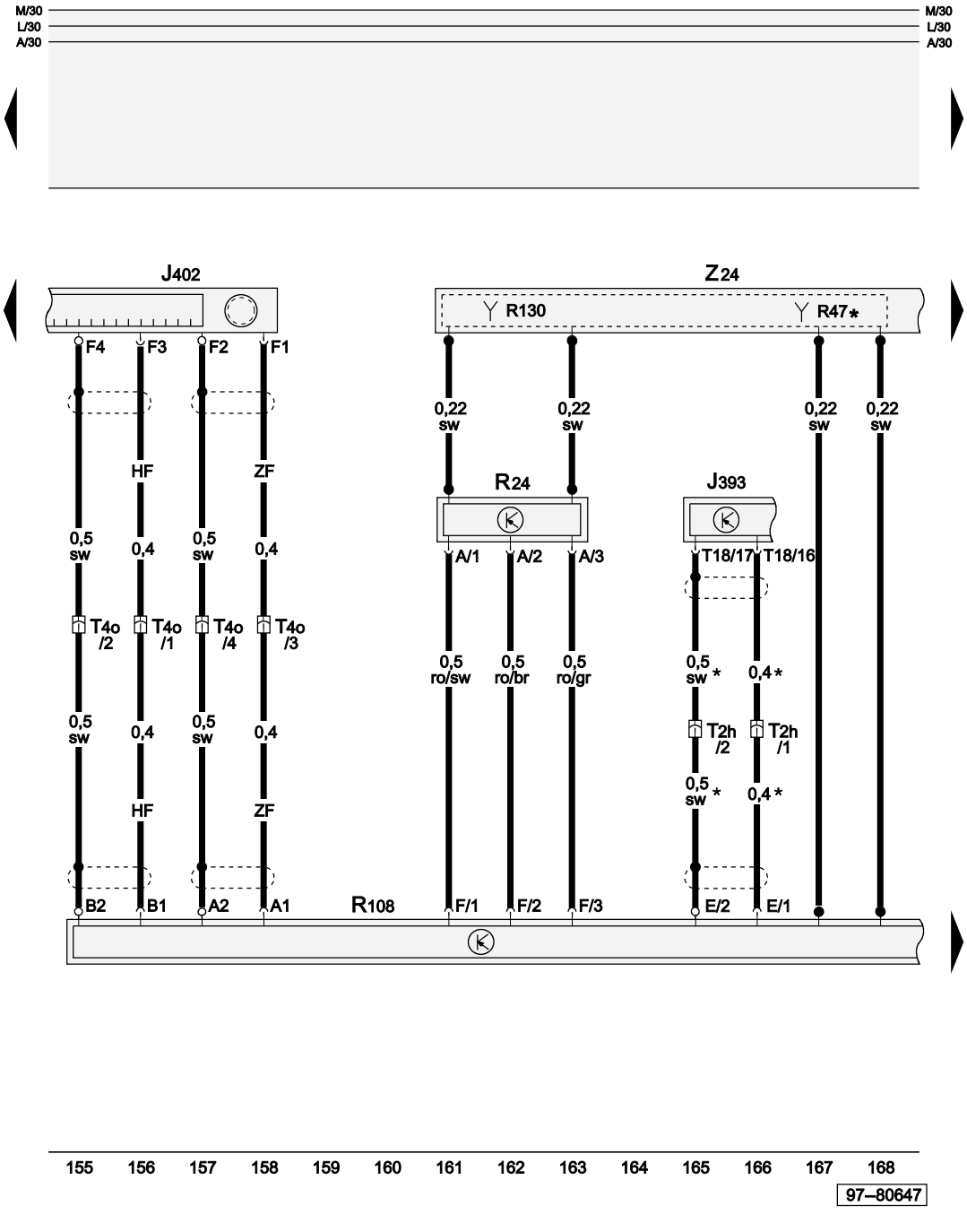


CD changer without satellite radio

J402	Navigation operating electronics control unit
R41	CD changer
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T12l	12-pin connector, blue (connector B)
309	Earth connection 1, screening, in CD changer wiring harness
310	Earth connection 2, screening, in CD changer wiring harness
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
**	for models with CD changer only
***	for models without satellite radio only

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ro	=	red
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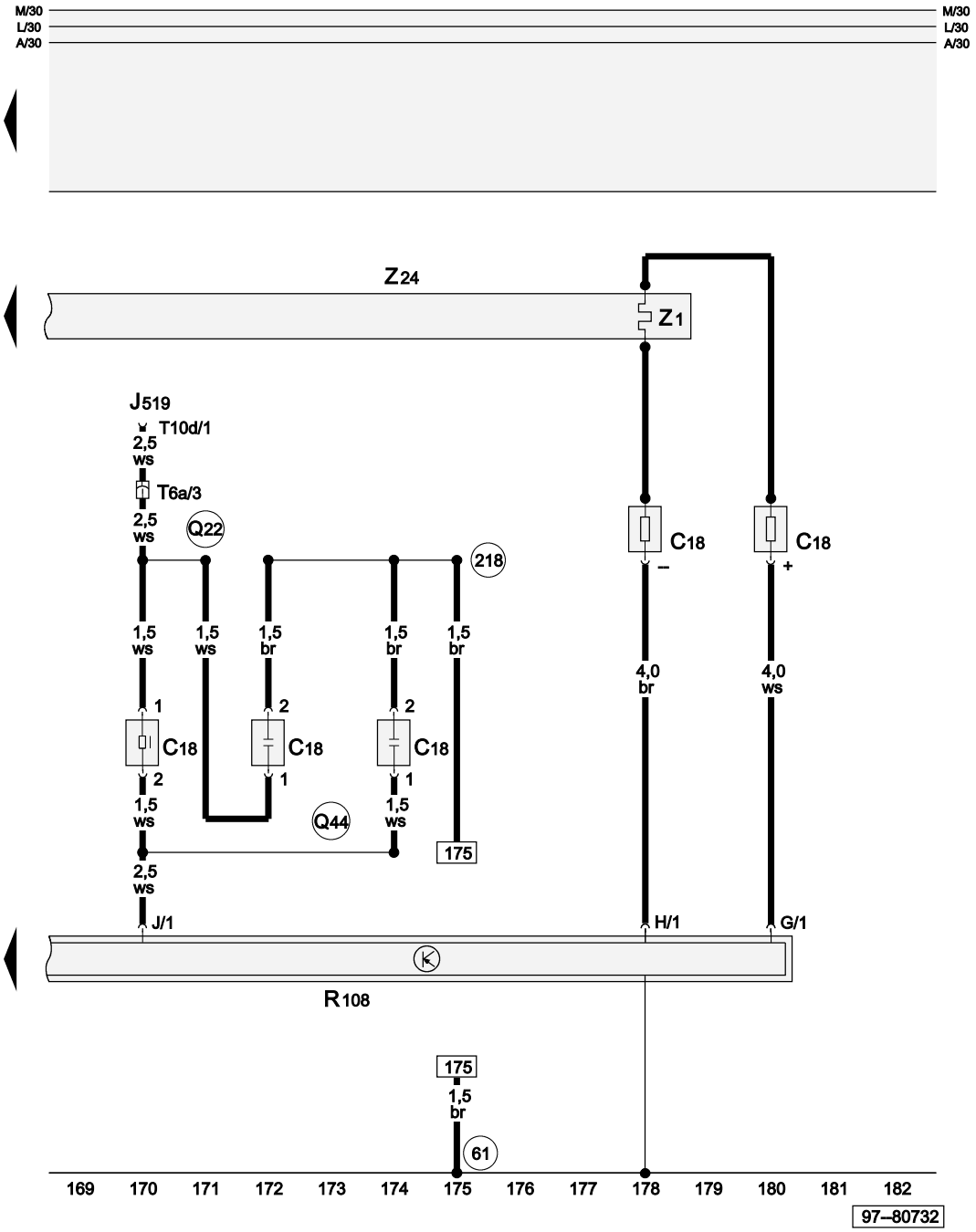


Left aerial module, rear window aerial 1

J393	Convenience system central control unit
J402	Navigation operating electronics control unit
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T4o	4-pin connector, near C-pillar right
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only

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Left aerial module, window aerial suppression filter

C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness

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Preparation for mobile telephone

⇒ **with US equipment**

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

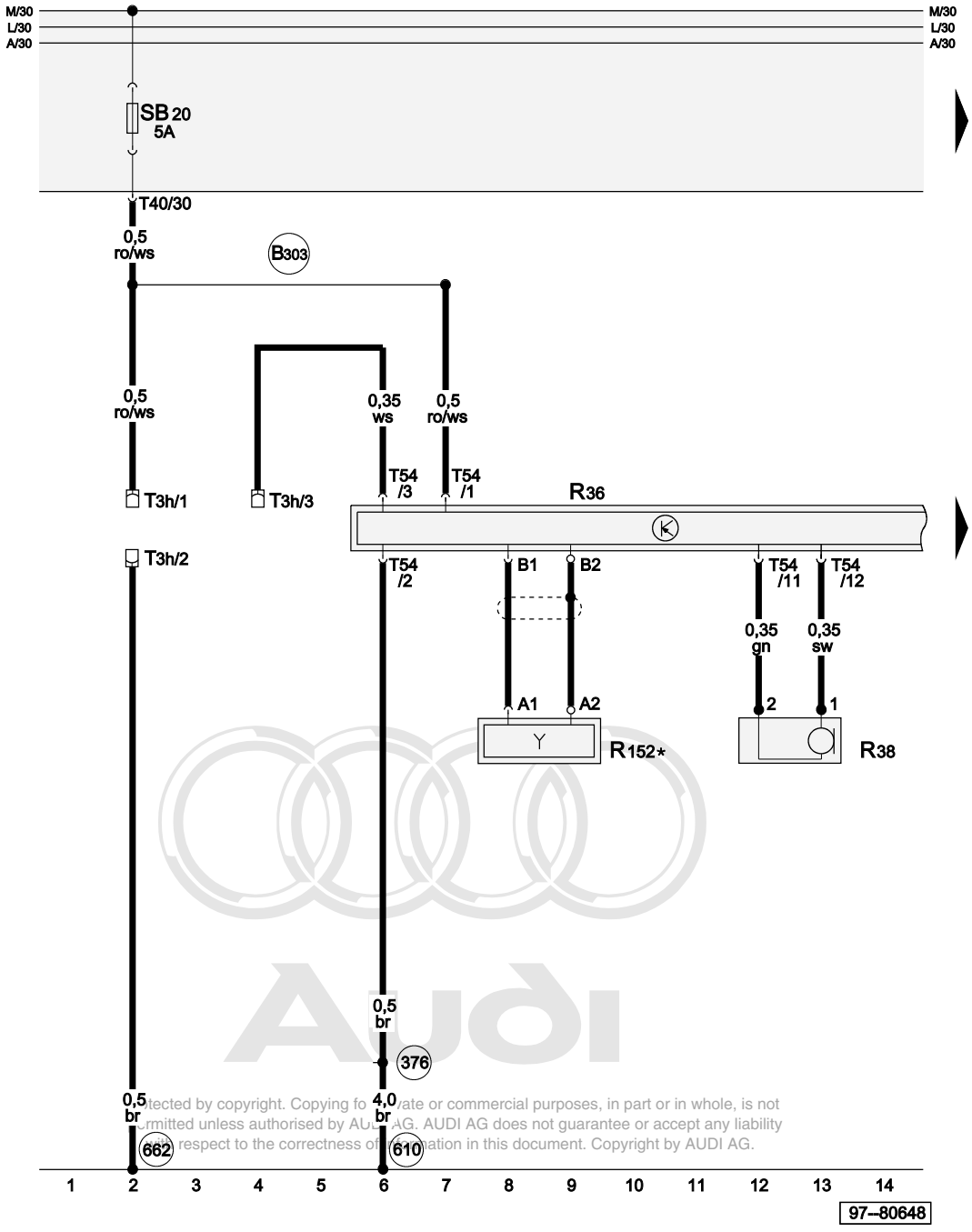
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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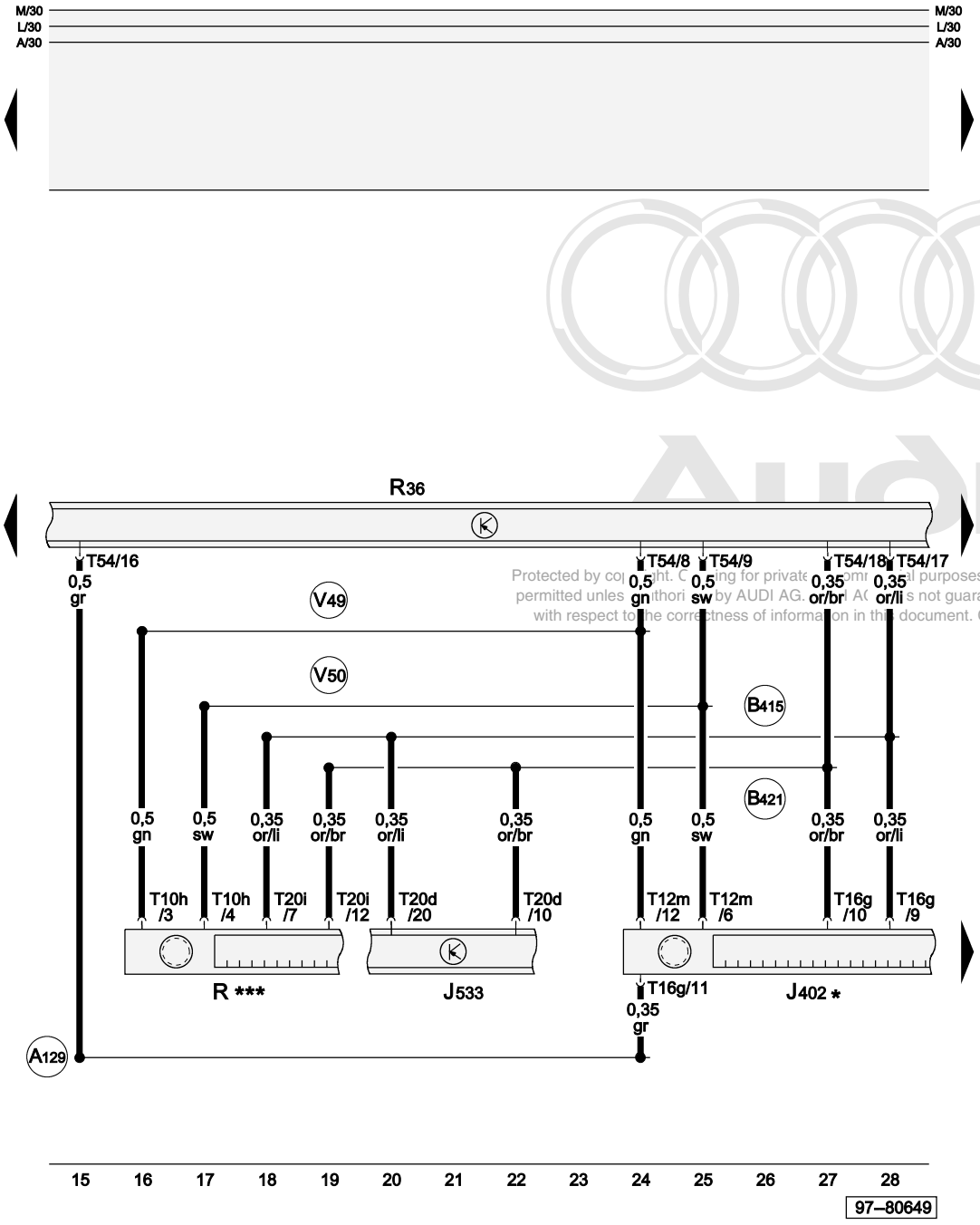


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Telephone microphone, aerial for Bluetooth

R36	Telephone transmitter and receiver unit
R38	Telephone microphone
R152	Aerial for Bluetooth
SB20	Fuse 20 on fuse holder
T3h	3-pin connector, black, (connector A) rear left on C-pillar
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T54	54-pin connector, black (connector A)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
662	Earth point, rear left side panel
B303	Positive connection 7 (30), in main wiring harness
*	for models with aerial for Bluetooth only

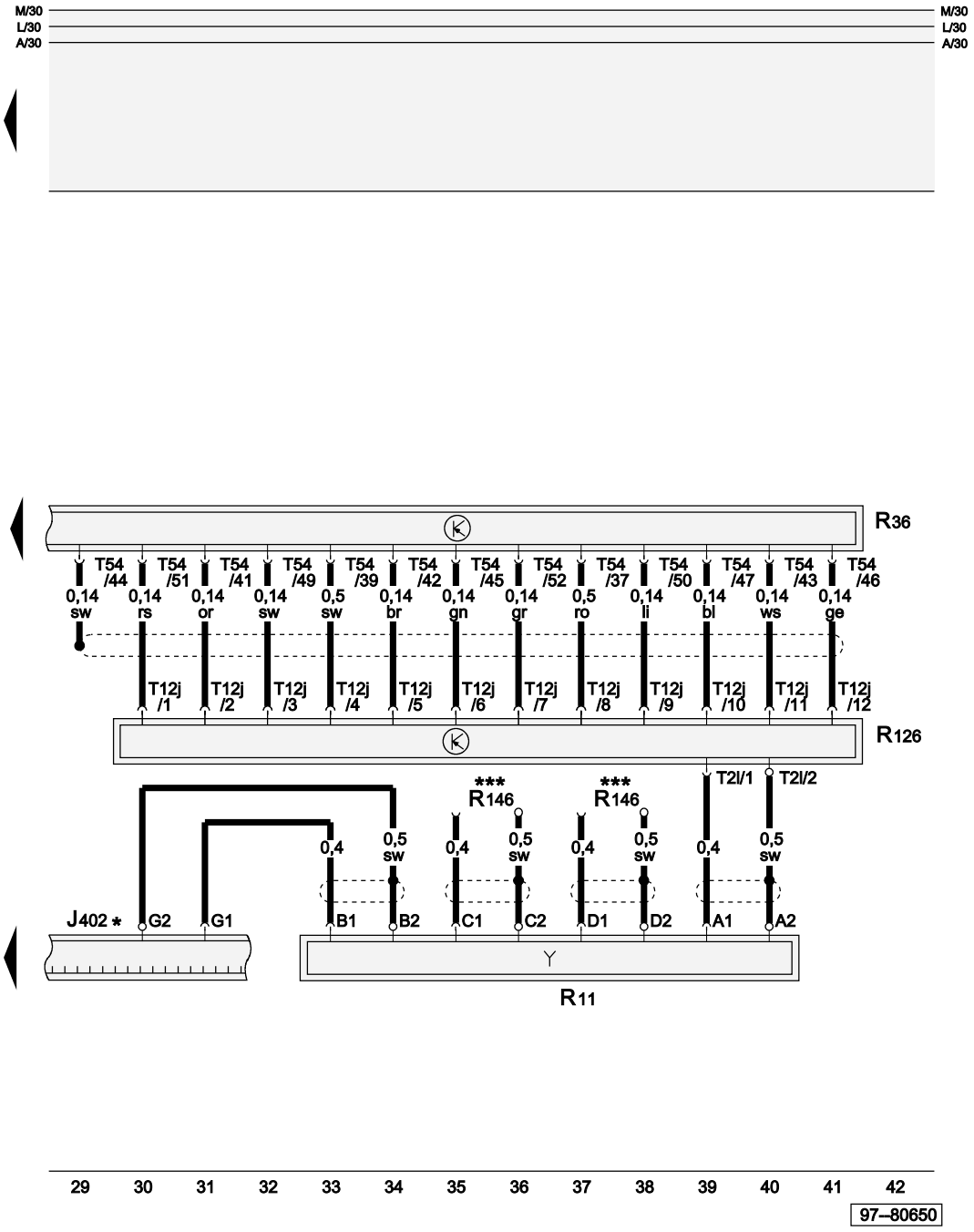


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Muting

J402	Navigation operating electronics control unit
J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with radio navigation system RNS-E only
***	for models with radio only



roof aerial

J402	Navigation operating electronics control unit
R11	Aerial
R36	Telephone transmitter and receiver unit
R126	Telephone bracket
R146	Satellite radio
T2l	2-pin connector, yellow (connector B)
T12j	12-pin connector, brown (connector A)
T54	54-pin connector, black (connector A)
*	for models with radio navigation system RNS-E only
***	for models with satellite radio only

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Basic equipment

⇒ **with US equipment**

from model year 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

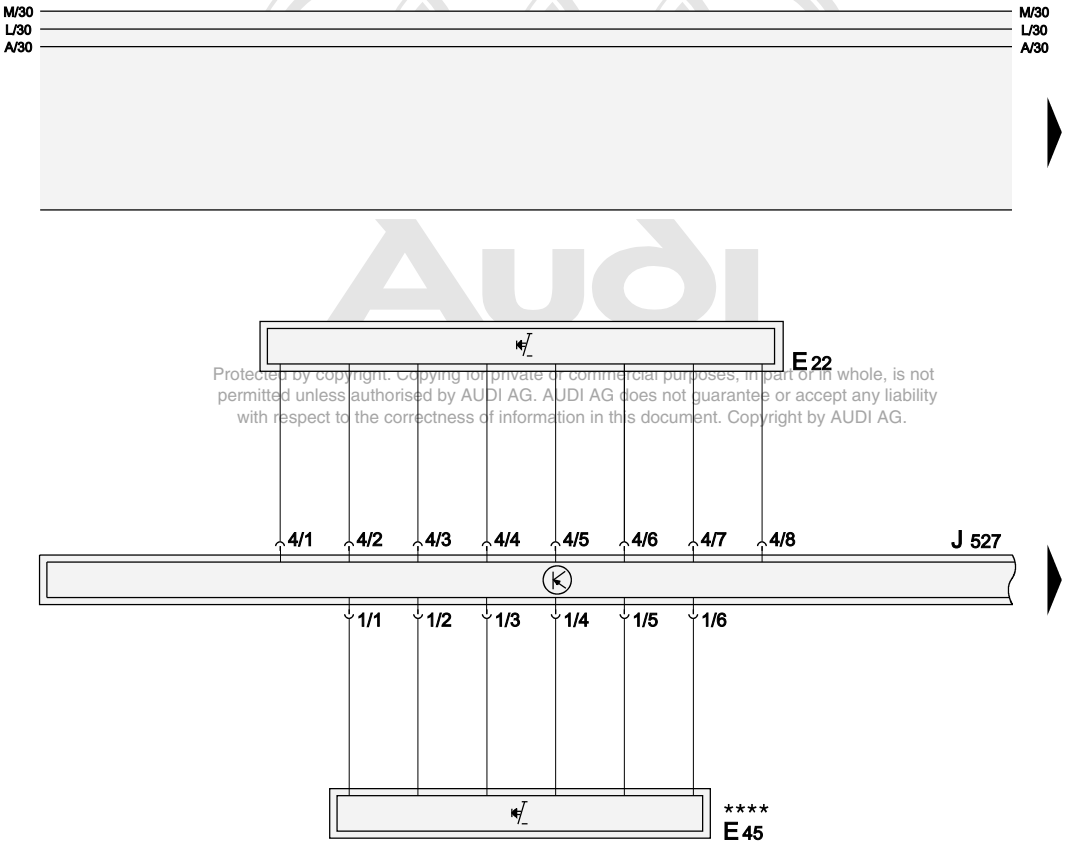
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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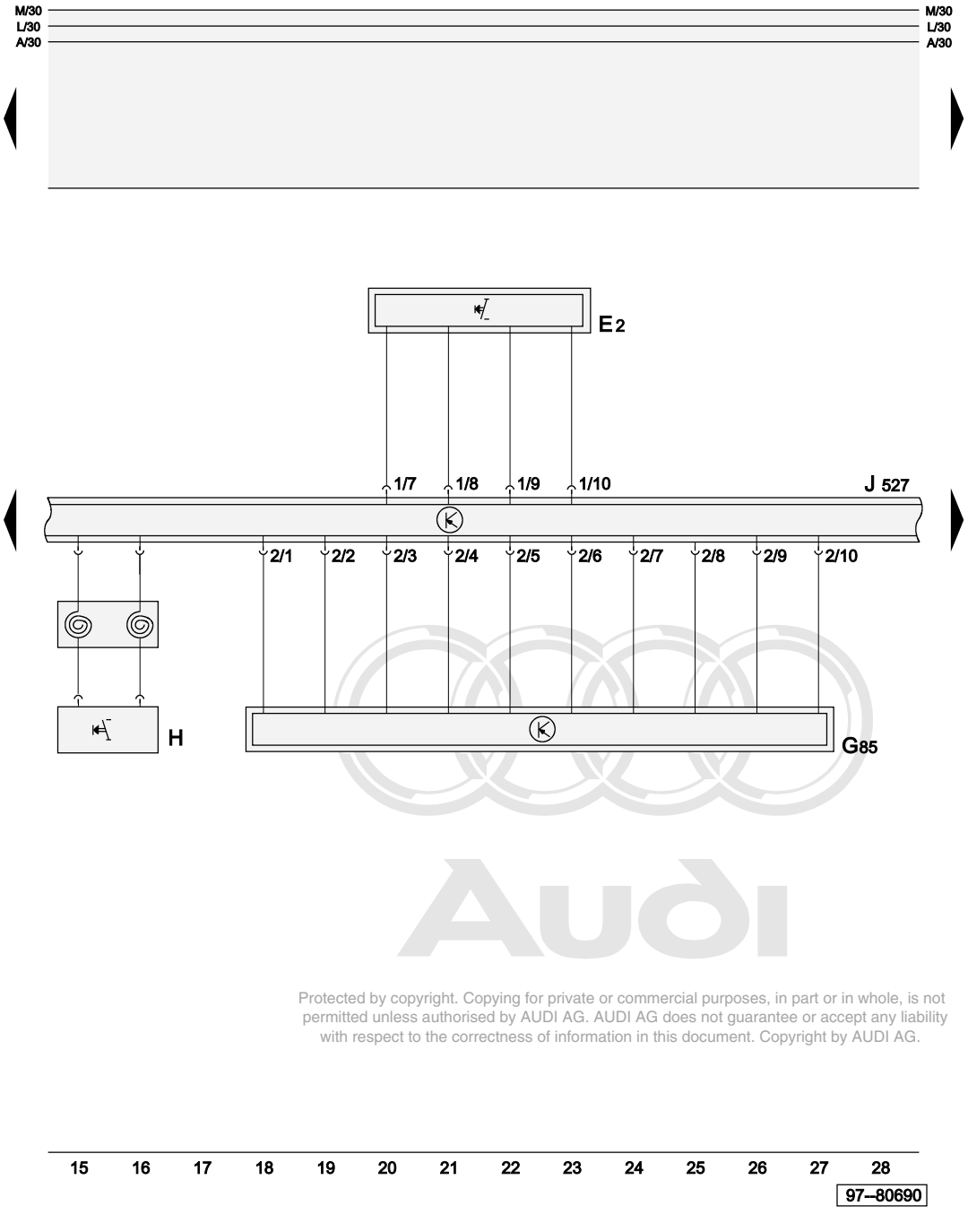


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Intermittent wiper switch, cruise control system switch

E22	Intermittent wiper switch
E45	Cruise control system switch
J527	Steering column electronics control unit
****	for models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

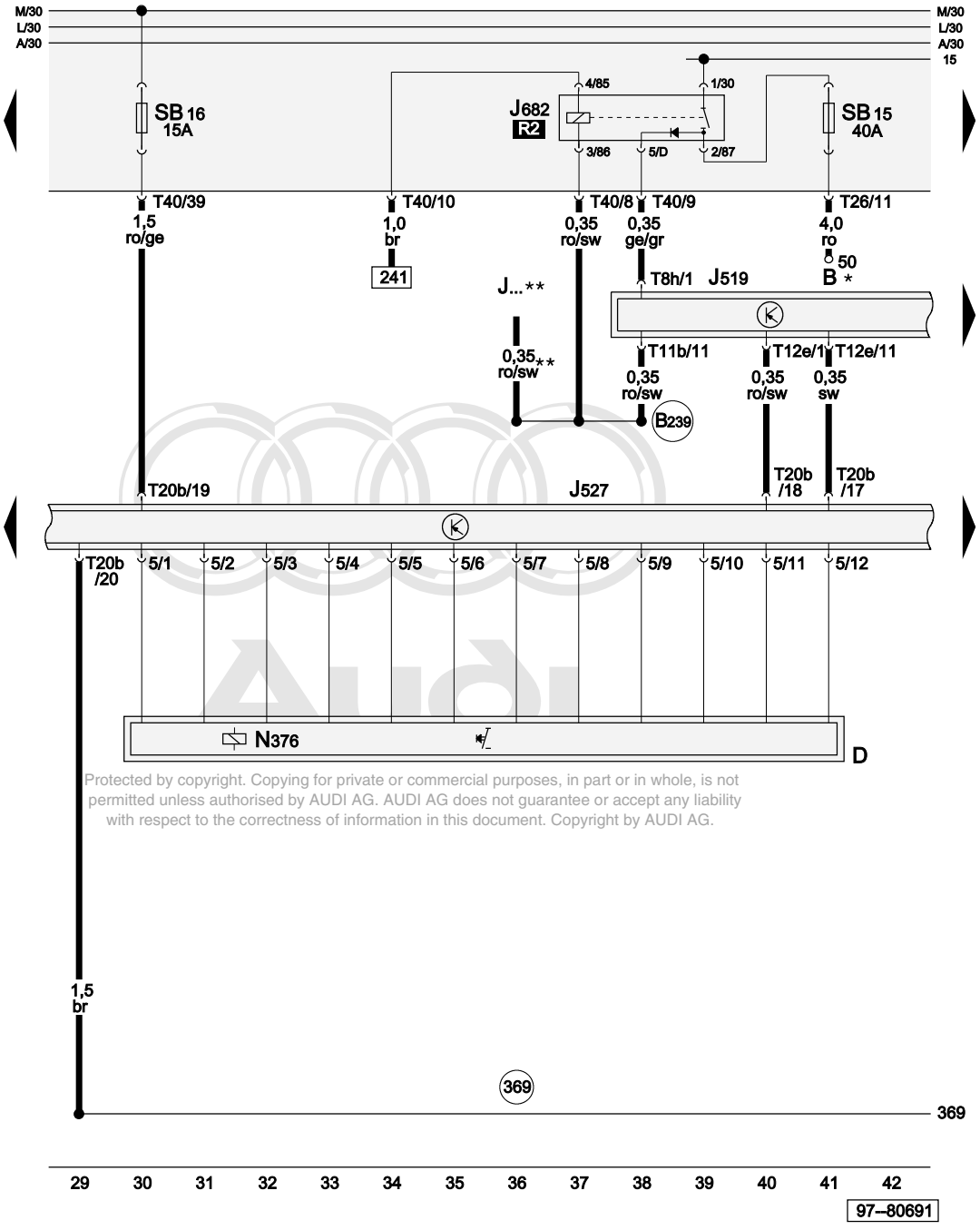


Turn signal switch, horn plate, steering angle sender

E2	Turn signal switch
G85	Steering angle sender
H	Horn plate
J527	Steering column electronics control unit

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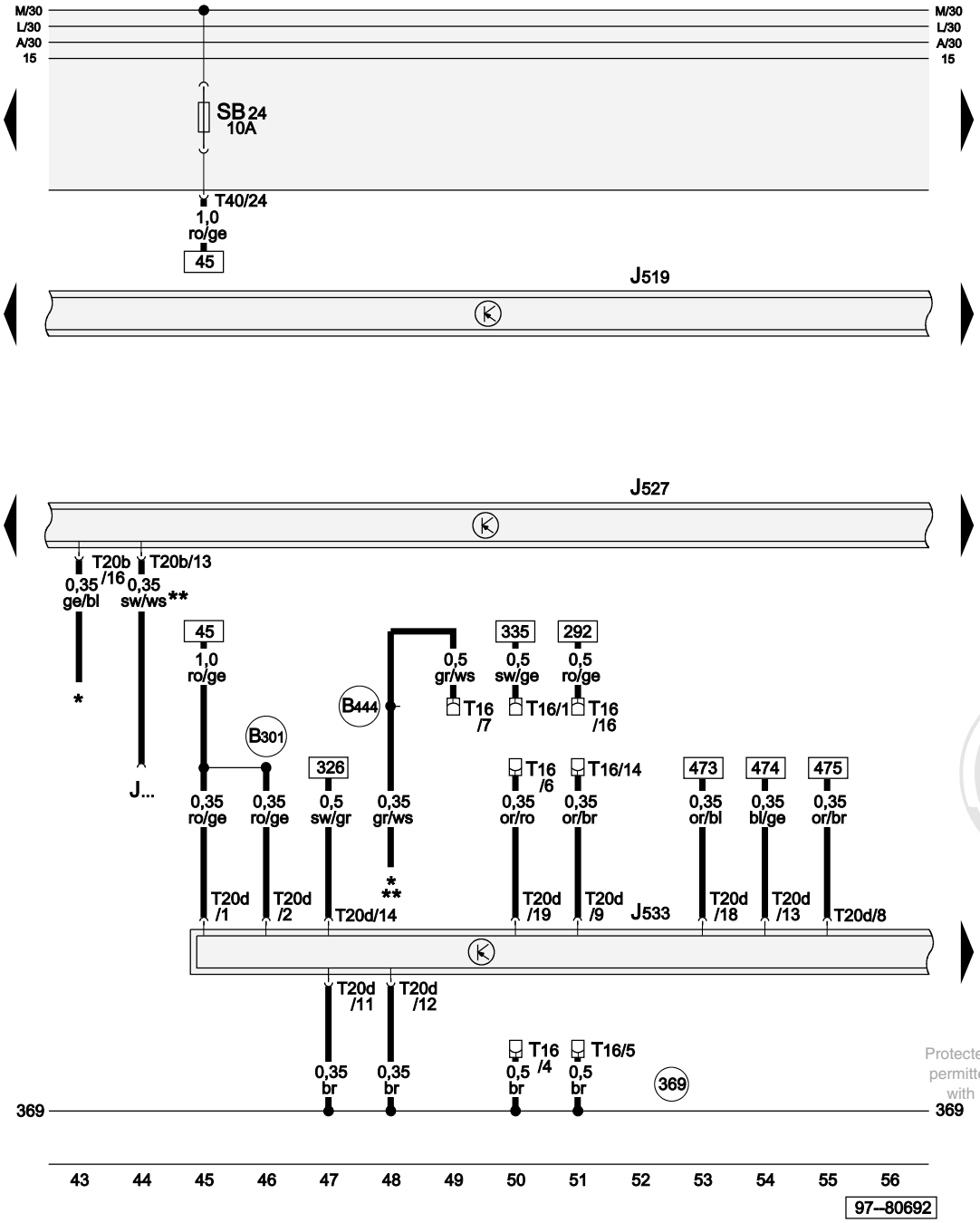


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Ignition/starter switch, terminal 50 voltage supply relay

B	Starter
D	Ignition/starter switch
J...	Engine control units
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
N376	Ignition key withdrawal lock solenoid
SB15	Fuse 15 on fuse holder B
SB16	Fuse 16 on fuse holder B
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B239	Positive connection 1 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram with battery in luggage compartment or engine compartment
**	⇒ applicable engine Current Flow Diagram

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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rs	=	pink

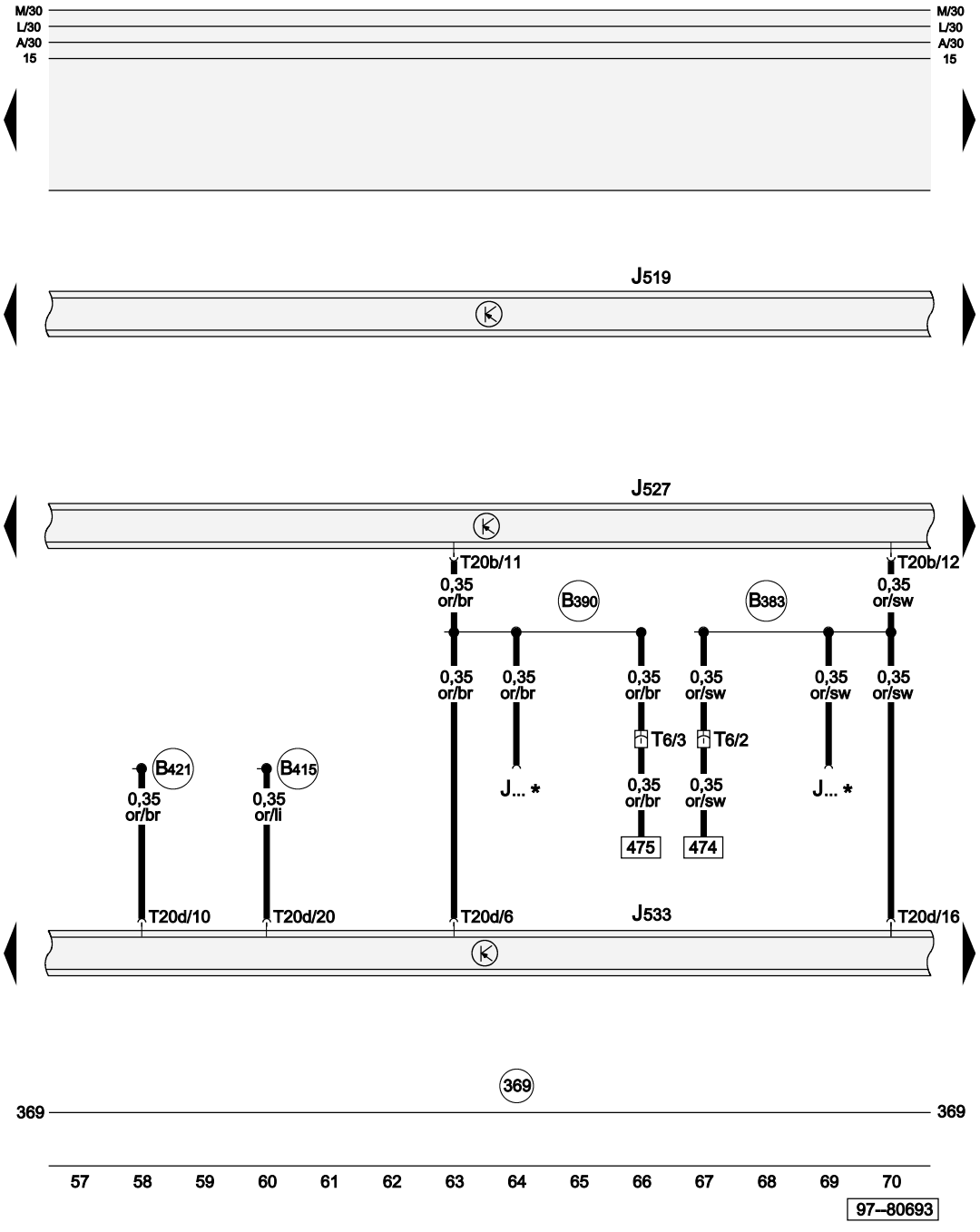


Data bus diagnostic interface, diagnostic connector

J...	Engine control units
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB24	Fuse 24 on fuse holder B
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	⇒ applicable Current Flow Diagram: automatic gearbox
**	⇒ applicable engine Current Flow Diagram

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gn	=	green
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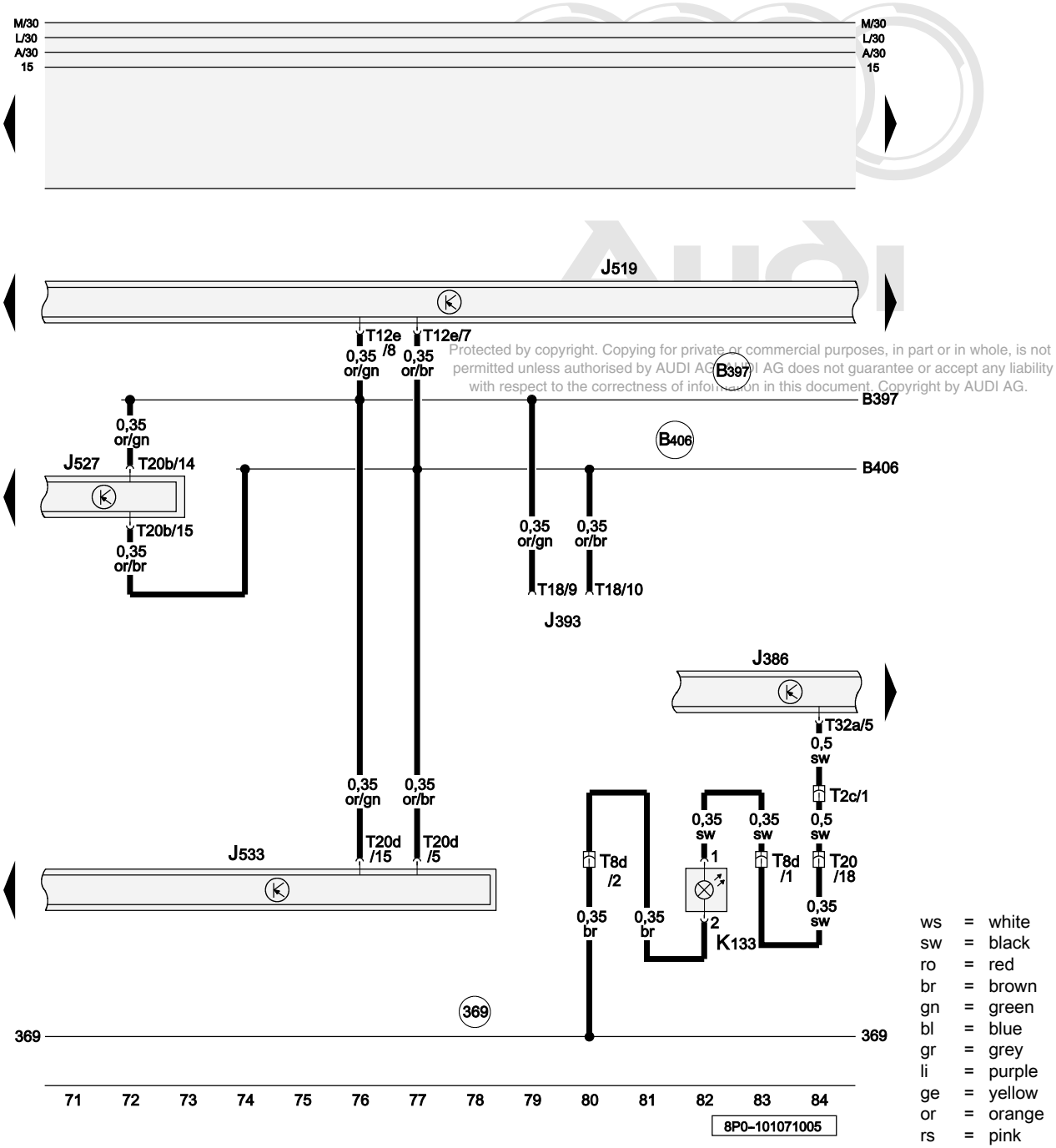


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Drive train CAN bus, infotainment CAN bus

J...	Engine control units
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T6	6-pin connector, black, near longitudinal member, front left
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
369	Earth connection 4, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	⇒ applicable engine Current Flow Diagram

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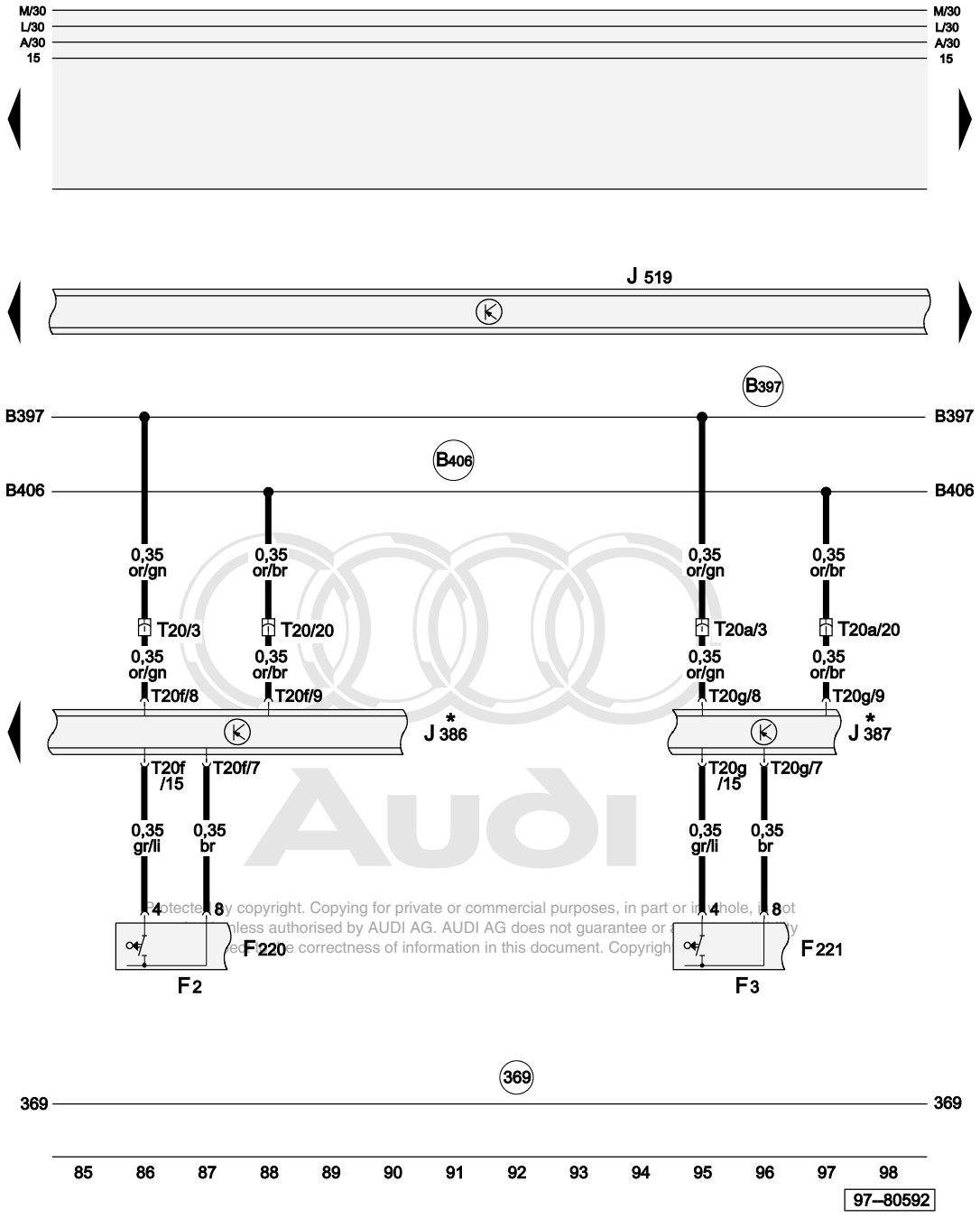


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Convenience CAN bus, central locking deadlock function warning lamp

J386	Driver side door control unit
J393	Convenience system central control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K133	Central locking deadlock function warning lamp
T2c	2-pin connector, black, behind door trim driver door
T8d	8-pin connector, black, behind centre console
T12e	12-pin connector, black (connector G)
T18	18-pin connector, brown (connector A)
T20	20-pin connector, black, door A-pillar left
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32a	32-pin connector, grey (connector C)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

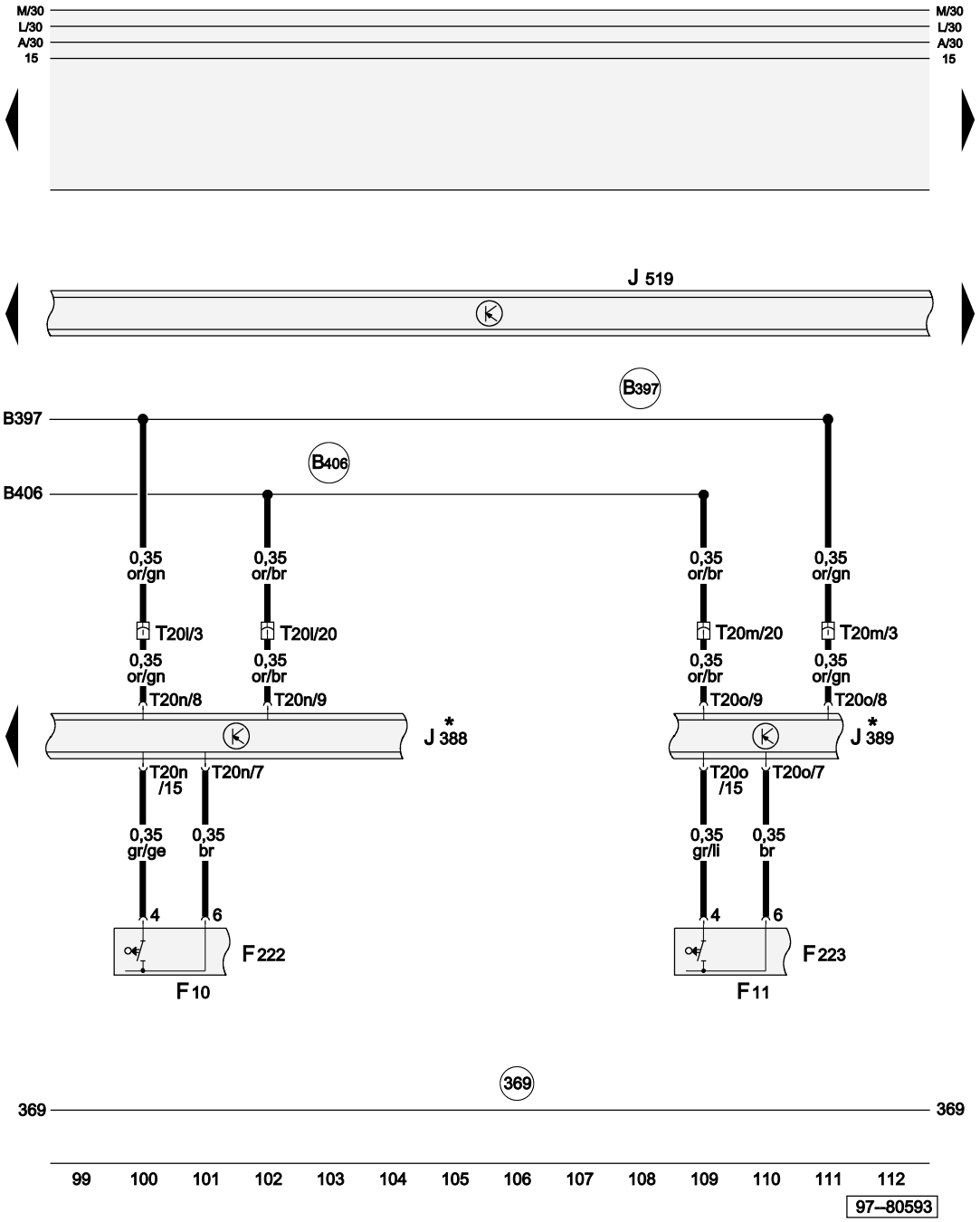


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Convenience CAN bus, door contact switch

F2	Driver door contact switch
F3	Front passenger door contact switch
F220	Driver side central locking lock unit
F221	Front passenger side central locking lock unit
J386	Driver side door control unit
J387	Front passenger door control unit
J519	Onboard supply control unit
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
(369)	Earth connection 4, in main wiring harness
(B397)	Connection 1 (convenience CAN bus, high), in main wiring harness
(B406)	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Voltage supply, ⇒ applicable Current Flow Diagram: convenience system

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br	=	brown
gn	=	green
bl	=	blue
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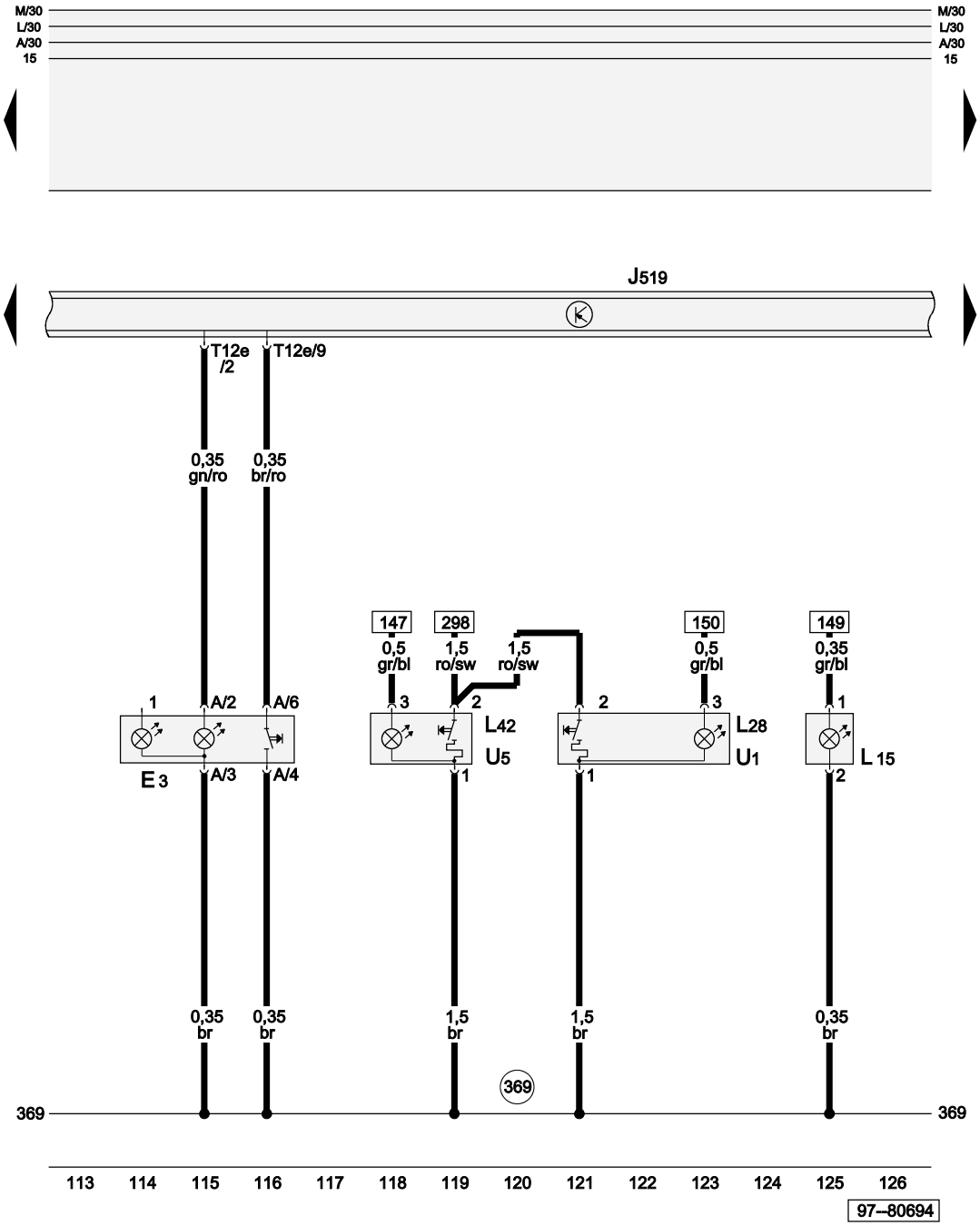


Convenience CAN bus, rear door contact switch

F10	Rear left door contact switch
F11	Rear right door contact switch
F222	Rear left central locking lock unit
F223	Rear right central locking lock unit
J388	Rear left door control unit
J389	Rear right door control unit
J519	Onboard supply control unit
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
T20n	20-pin connector, black (connector A)
T20o	20-pin connector, black (connector A)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Voltage supply, ⇒ applicable Current Flow Diagram: convenience system

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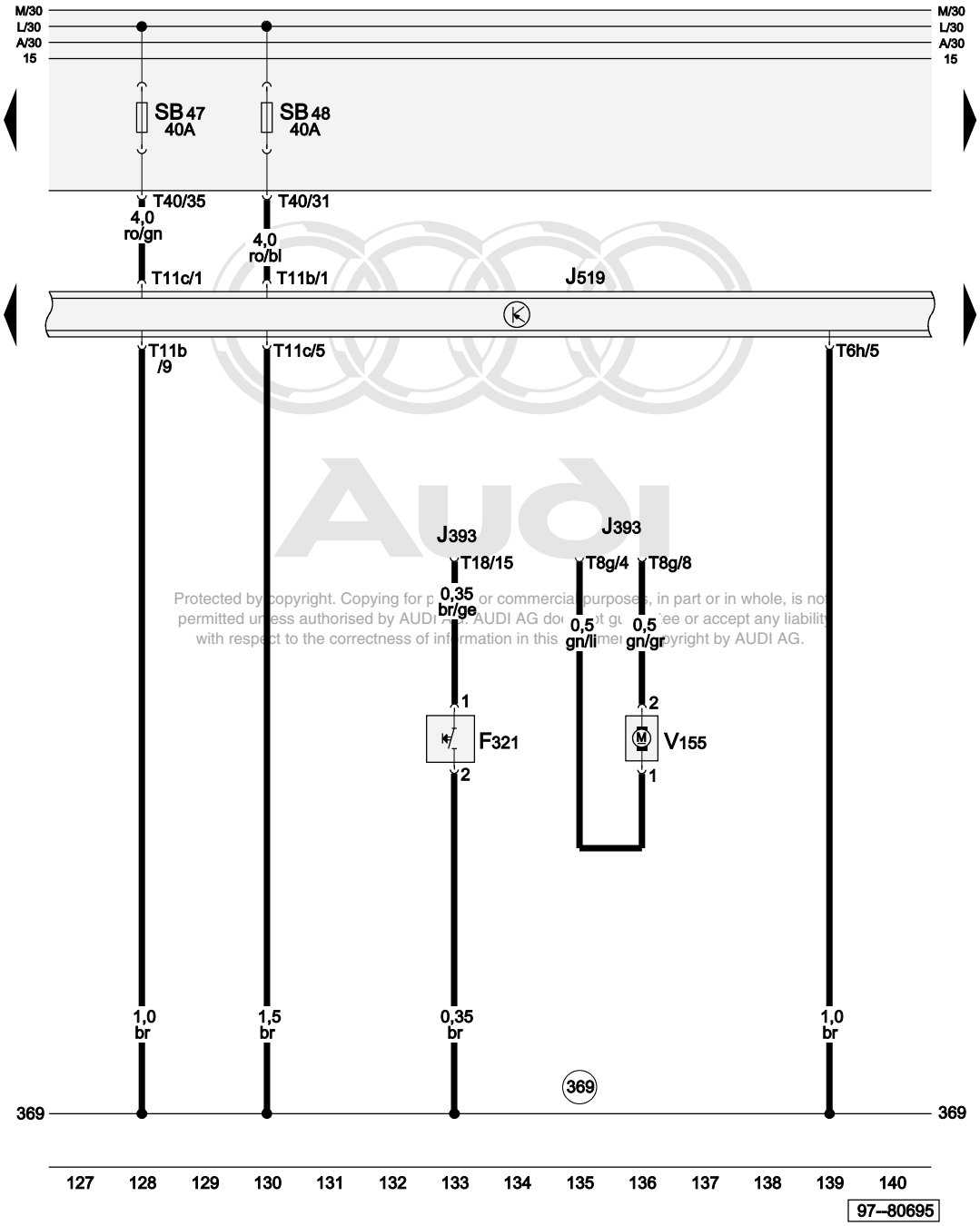


Hazard warning light switch, cigarette lighter, 12 V socket

E3	Hazard warning light switch
J519	Onboard supply control unit
L15	Ashtray illumination bulb
L28	Cigarette lighter illumination bulb
L42	Socket illumination bulb
U1	Cigarette lighter
U5	12 V socket
T12e	12-pin connector, black (connector G)
369	Earth connection 4, in main wiring harness

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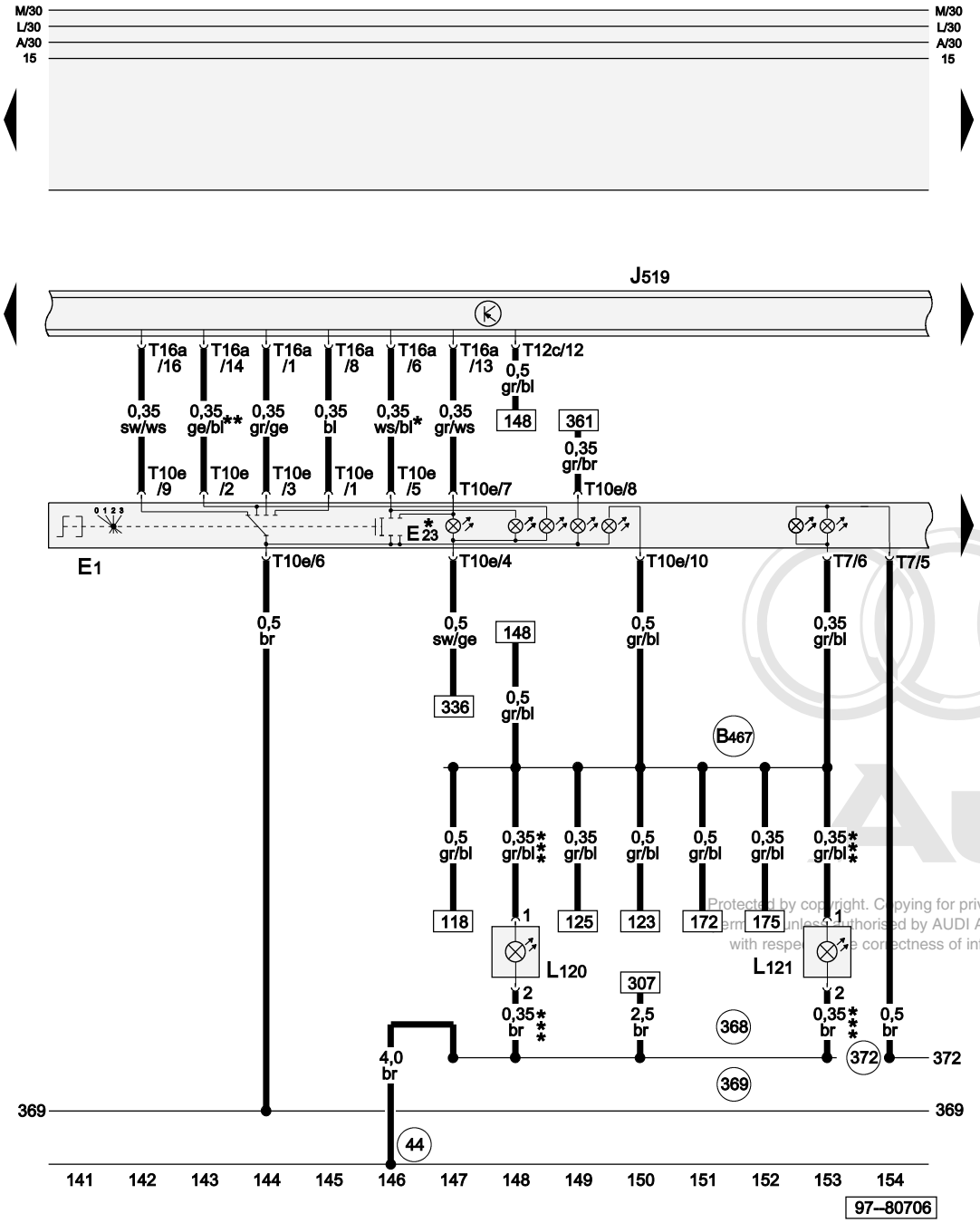


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Parking brake contact switch, tank filler flap locking motor

F321	Parking brake contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
T6h	6-pin connector, black (connector J)
T8g	8-pin connector, black (connector B)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T18	18-pin connector, brown (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V155	Tank filler flap locking motor
369	Earth connection 4, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

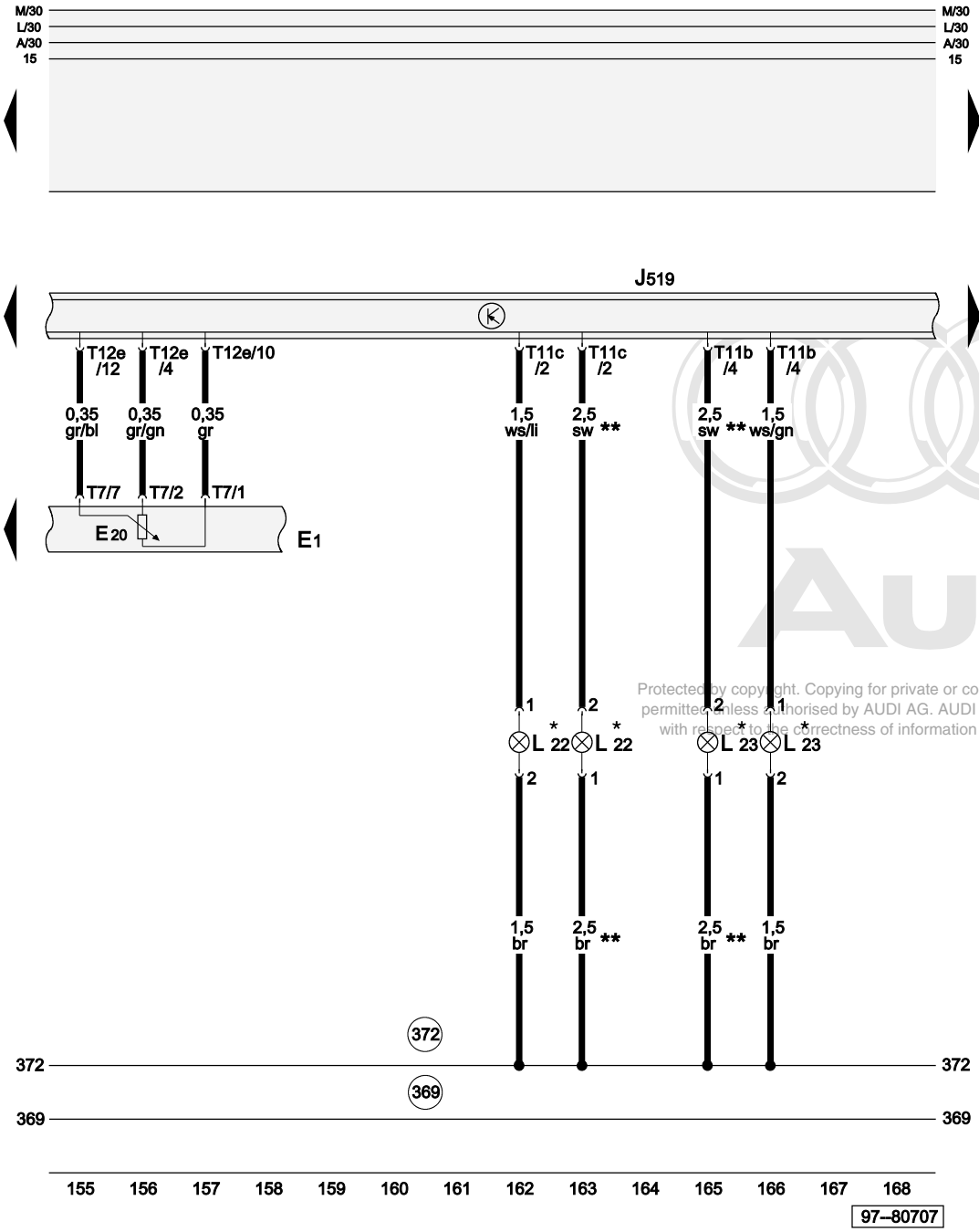


Light switch, front and rear fog light switch

E1	Light switch
E23	Front and rear fog light switch
J519	Onboard supply control unit
L120	Storage compartment illumination bulb
L121	Cup holder illumination bulb
T7	7-pin connector, black (connector B)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T16a	16-pin connector, black (connector E)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B467	Connection 3, in main wiring harness
*	for models with front fog light only
**	for models with automatic headlight switching only
***	for models with shelf illumination and cup holder illumination only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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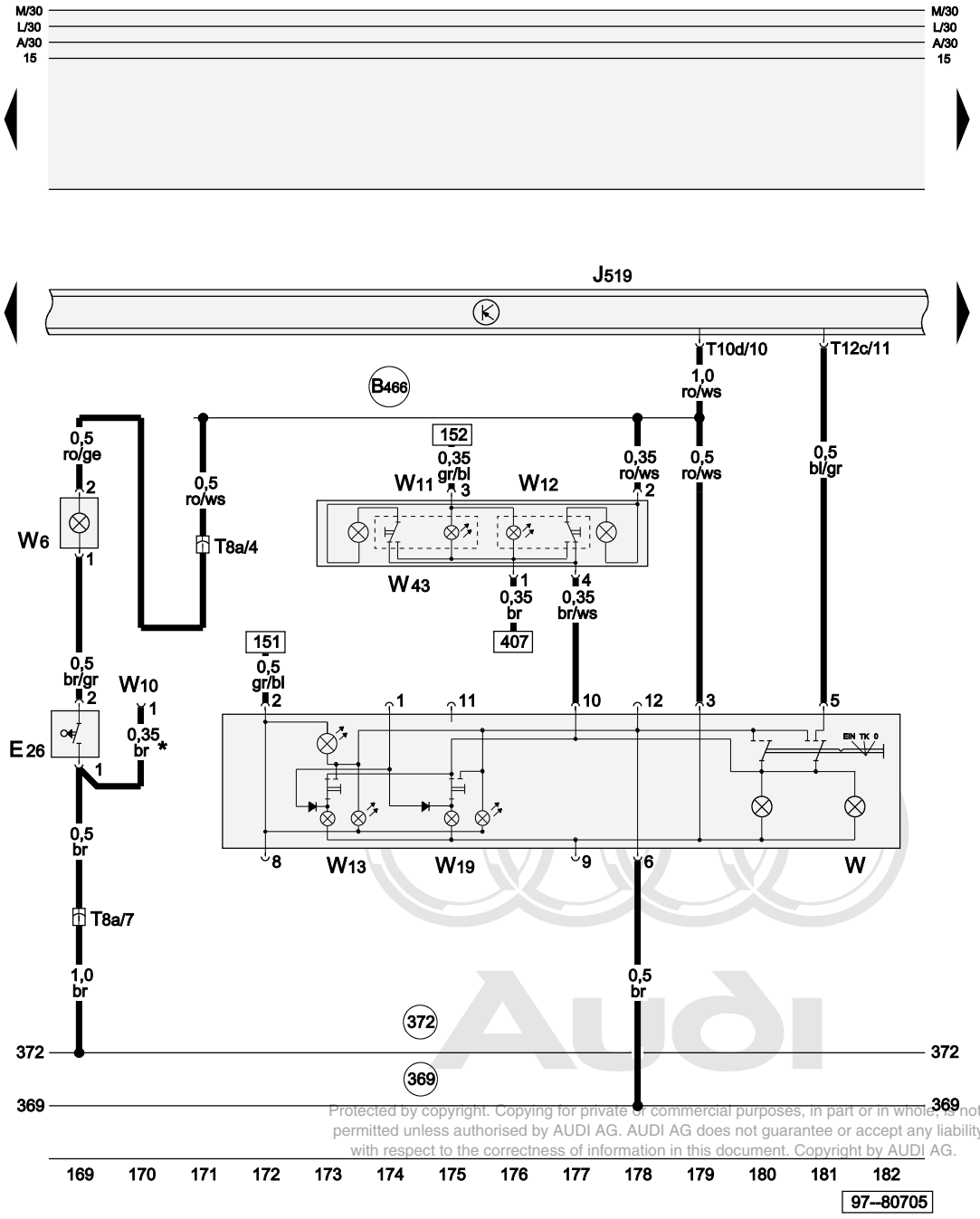


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Switches and instruments illumination regulator, left fog light, right fog light

E1	Light switch
E20	Switches and instruments illumination regulator
J519	Onboard supply control unit
L22	Left fog light bulb
L23	Right fog light bulb
T7	7-pin connector, black (connector B)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T12e	12-pin connector, black (connector G)
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
*	for models with front fog light only
**	for models with S line equipment only

ws	=	white
sw	=	black
ro	=	red
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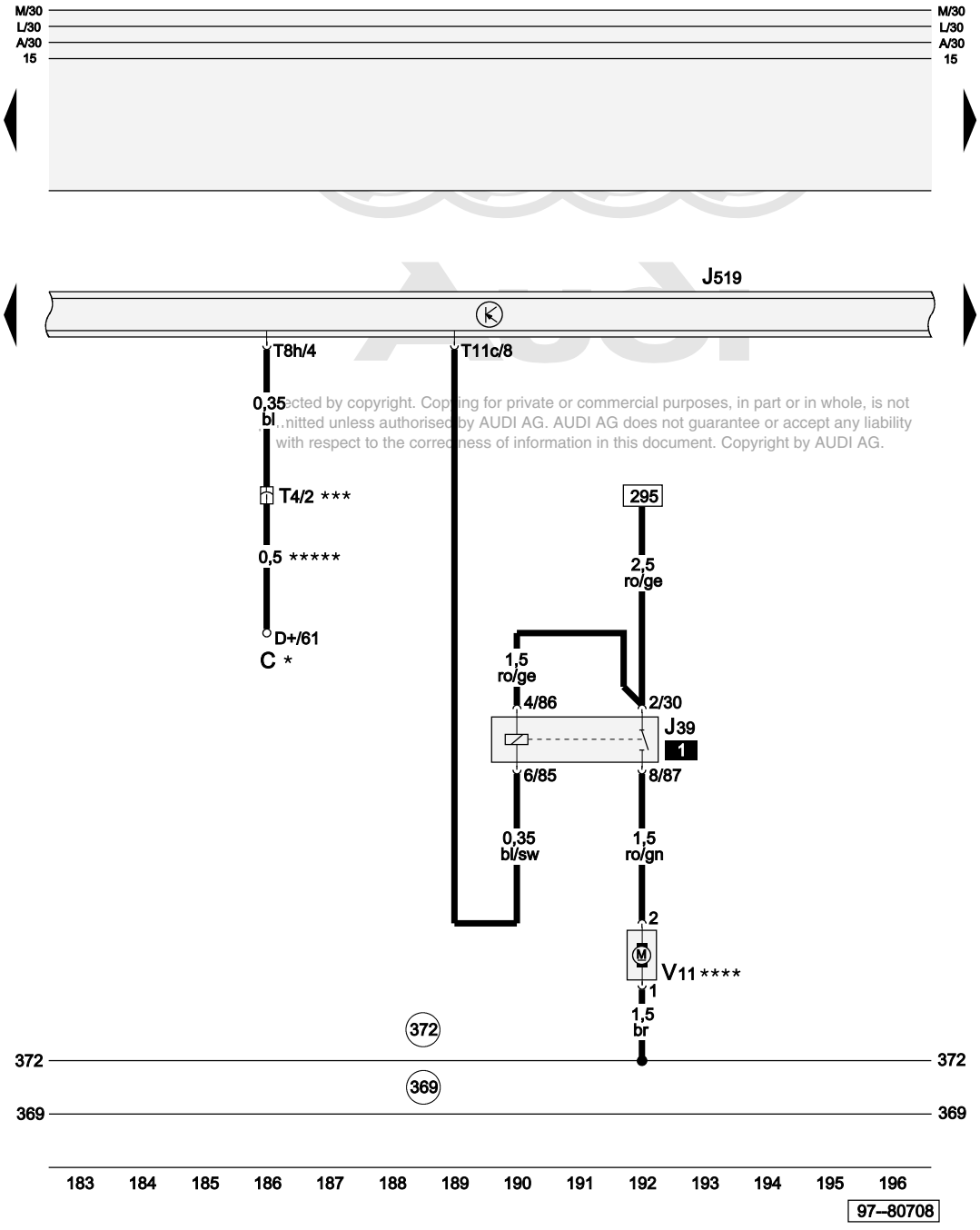


Front interior light, rear interior light, glove compartment light

E26	Glove compartment light switch
J519	Onboard supply control unit
T8a	8-connector, black, near glove compartment
T10d	10-pin connector, black (connector K)
T12c	12-pin connector, black (connector B)
W	Front interior light
W6	Glove compartment light
W10	Right footwell light
W11	Rear left reading light
W12	Rear right reading light
W13	Front passenger side reading light
W19	Driver side reading light
W43	Rear interior light
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B466	Connection 2, in main wiring harness
*	⇒ applicable Current Flow Diagram: convenience system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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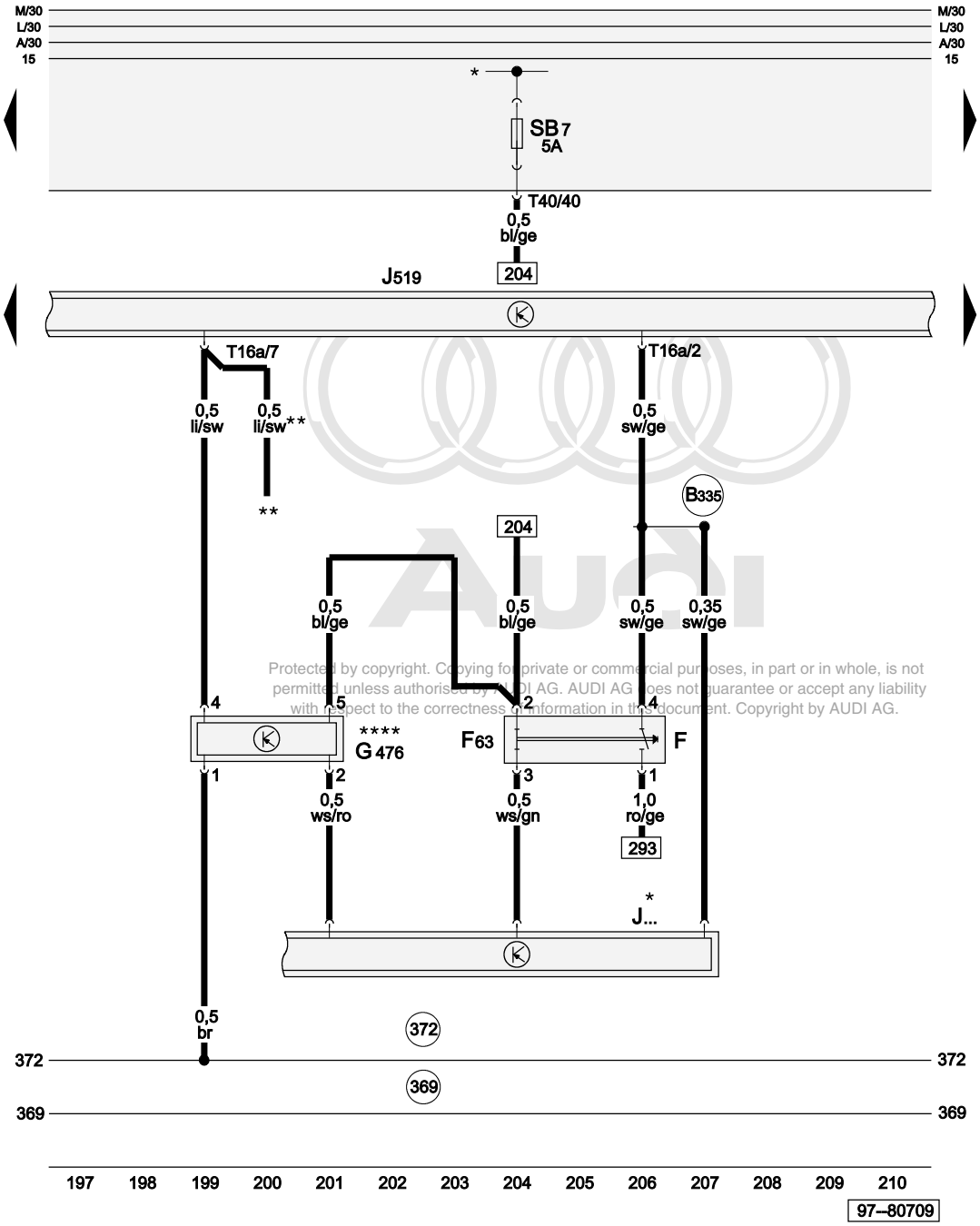


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Headlight washer system relay, headlight washer system pump

C	Alternator
J39	Headlight washer system relay
J519	Onboard supply control unit
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
V11	Headlight washer system pump
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in luggage compartment or engine compartment
***	for models with air conditioning system only
****	for models with headlight washer system only
*****	⇒ applicable engine Current Flow Diagram

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
rs	=	pink

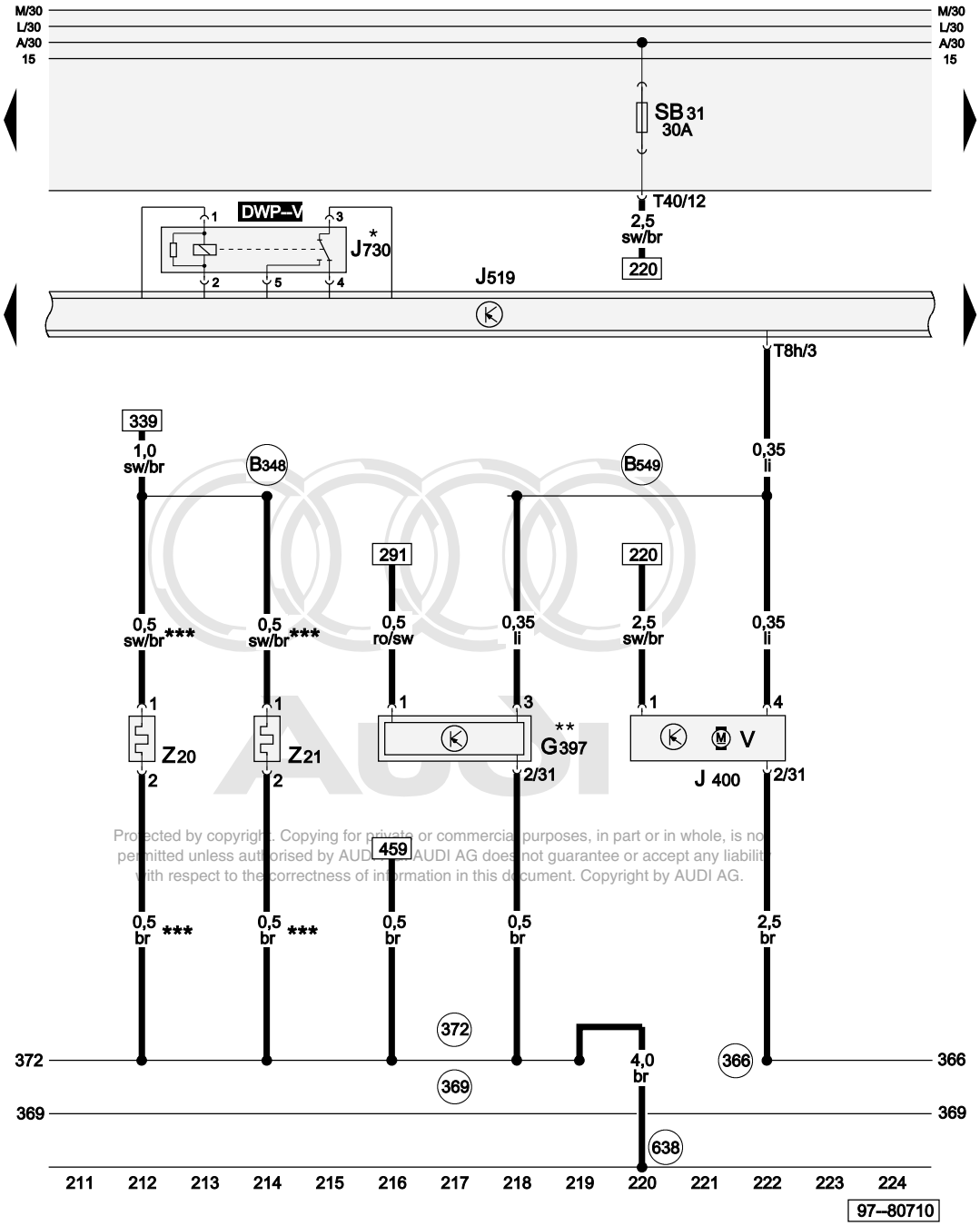


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Brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J...	Engine control units
J519	Onboard supply control unit
SB7	Fuse 7 on fuse holder B
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable engine Current Flow Diagram
**	⇒ applicable Current Flow Diagram: automatic gearbox
****	for models with manual gearbox only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

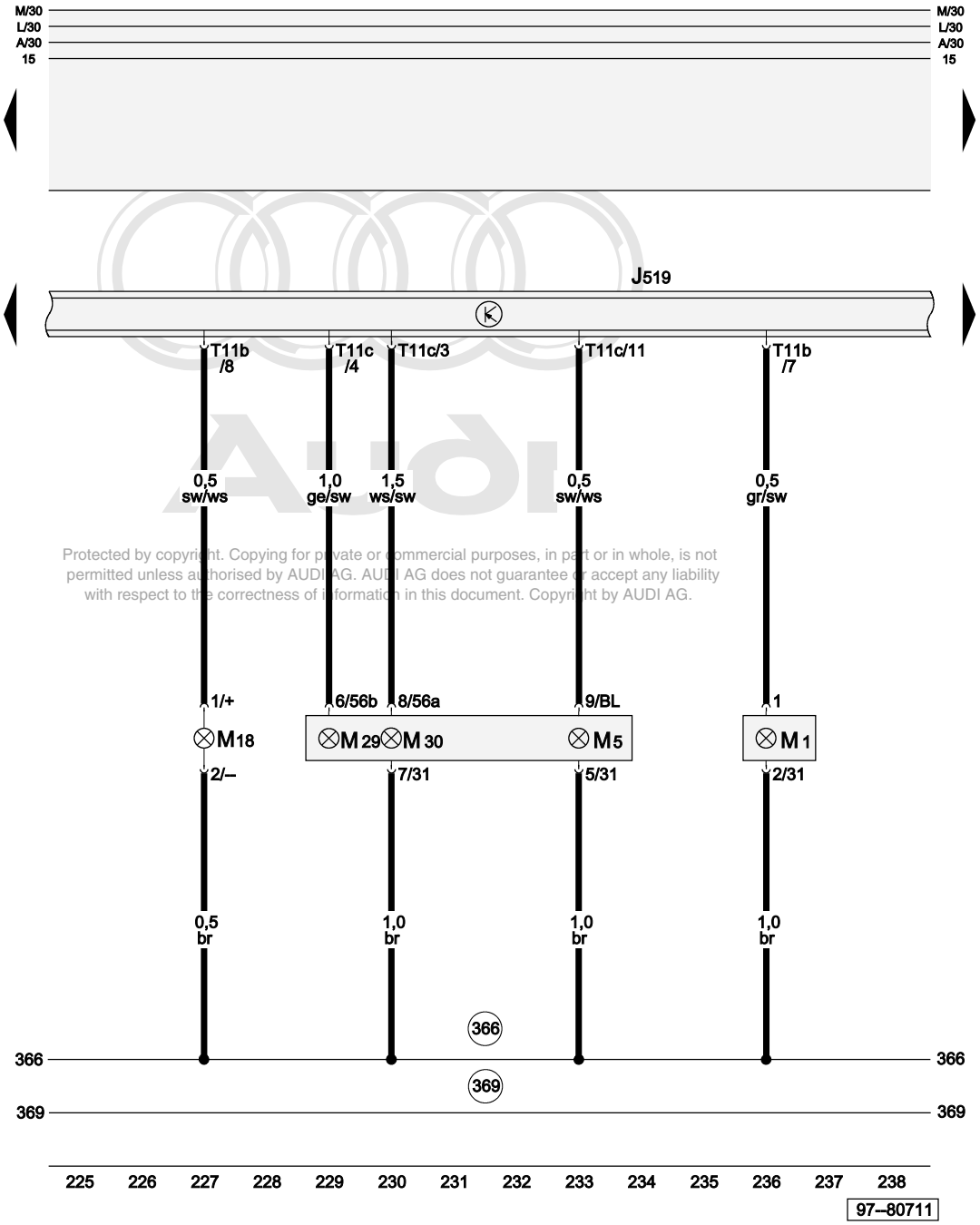


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Rain and light detector sensor, windscreen wiper motor, double washer pump relay 2

G397	Rain and light detector sensor
J400	Wiper motor control unit
J519	Onboard supply control unit
J730	Double washer pump relay 2
SB31	Fuse 31 on fuse holder B
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V	Windscreen wiper motor
Z20	Left washer jet heater element
Z21	Right washer jet heater element
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B348	Connection 1 (75A), in main wiring harness
B549	Connection 2 (LIN bus), in main wiring harness
*	Washer pump relay, front
**	for models with automatic headlight switching only
***	for models with washer jets heater element only

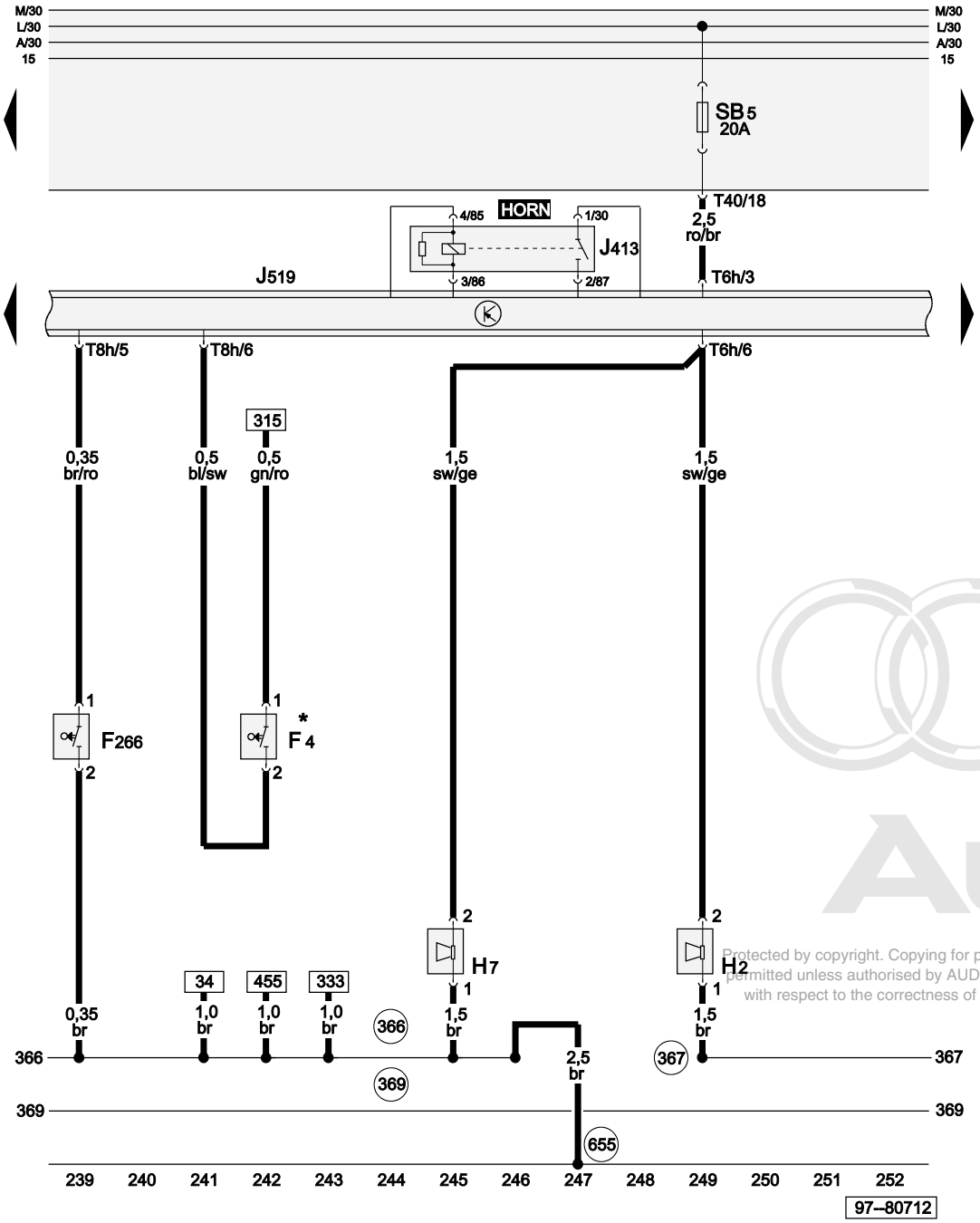


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Left side ligh, front left turn signal, left side turn signal bulb, left dipped beam, left main beam

J519	Onboard supply control unit
M1	Left side light bulb
M5	Front left turn signal bulb
M18	Left side mounted turn signal bulb
M29	Left dipped beam bulb
M30	Left main beam bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
369	Earth connection 4, in main wiring harness
366	Earth connection 1, in main wiring harness

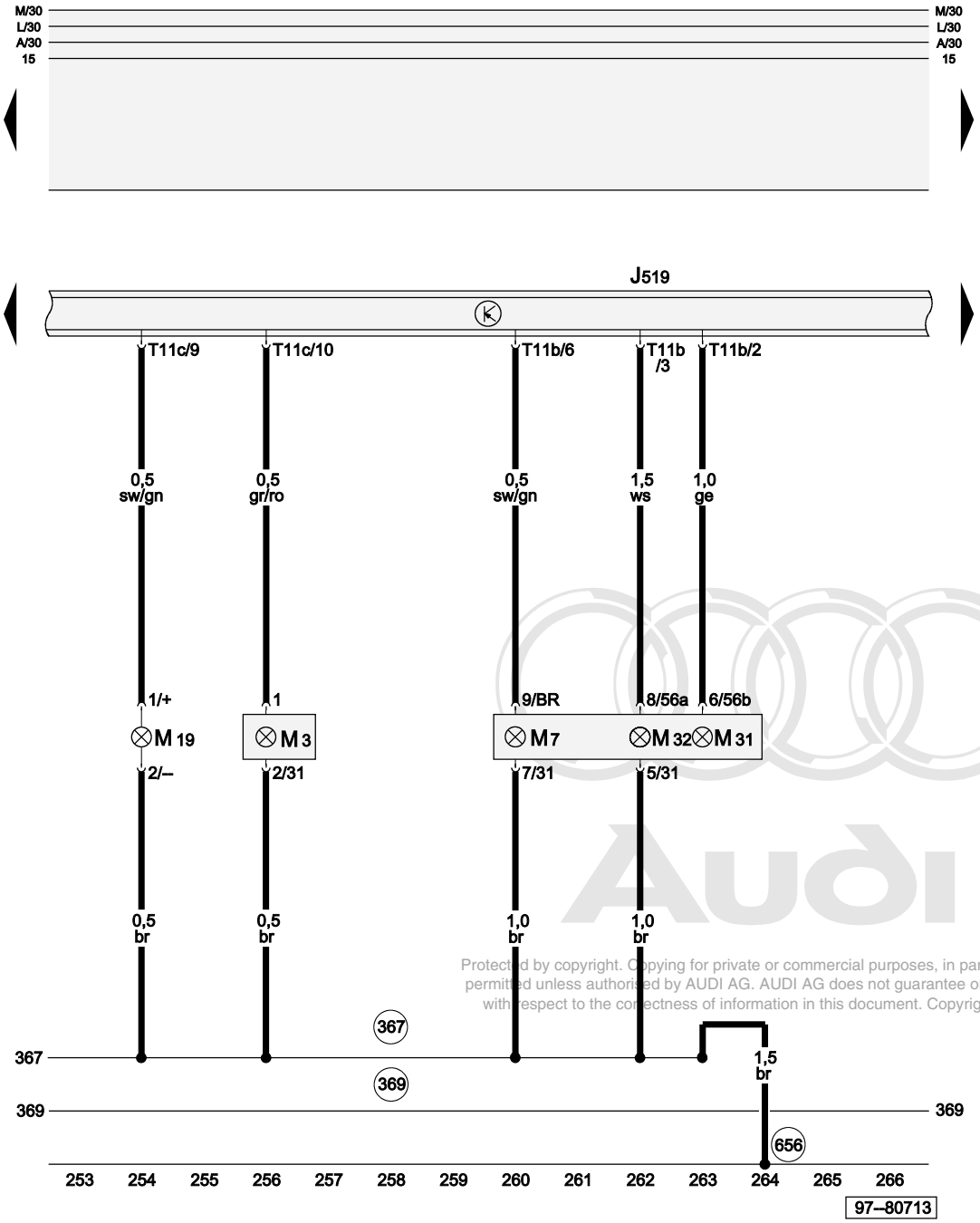


Reversing light switch, bonnet contact switch, treble tone horn, bass tone horn

F4	Reversing light switch
F266	Bonnet contact switch
H2	Treble tone horn
H7	Bass tone horn
J413	Horn relay
J519	Onboard supply control unit
SB5	Fuse 5 on fuse holder B
T6h	6-pin connector, black (connector J)
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
655	Earth point, on left headlight
*	for models with manual gearbox only

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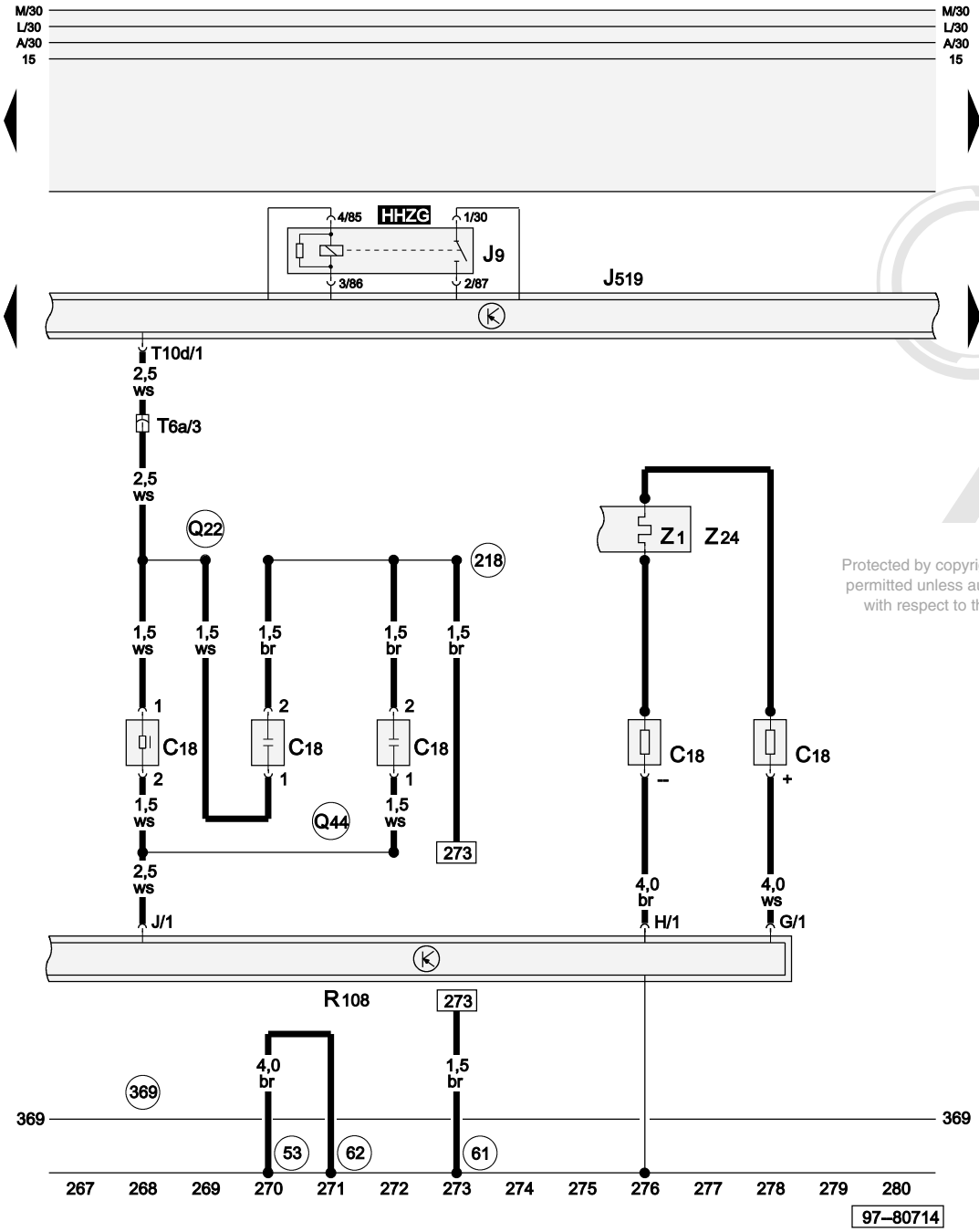


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Right side ligh, front right turn signal, right side turn signal bulb, right dipped beam, right main beam

J519	Onboard supply control unit
M3	Right side light bulb
M7	Front right turn signal bulb
M19	Right side mounted turn signal bulb
M31	Right dipped beam bulb
M32	Right main beam bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
656	Earth point, on right headlight

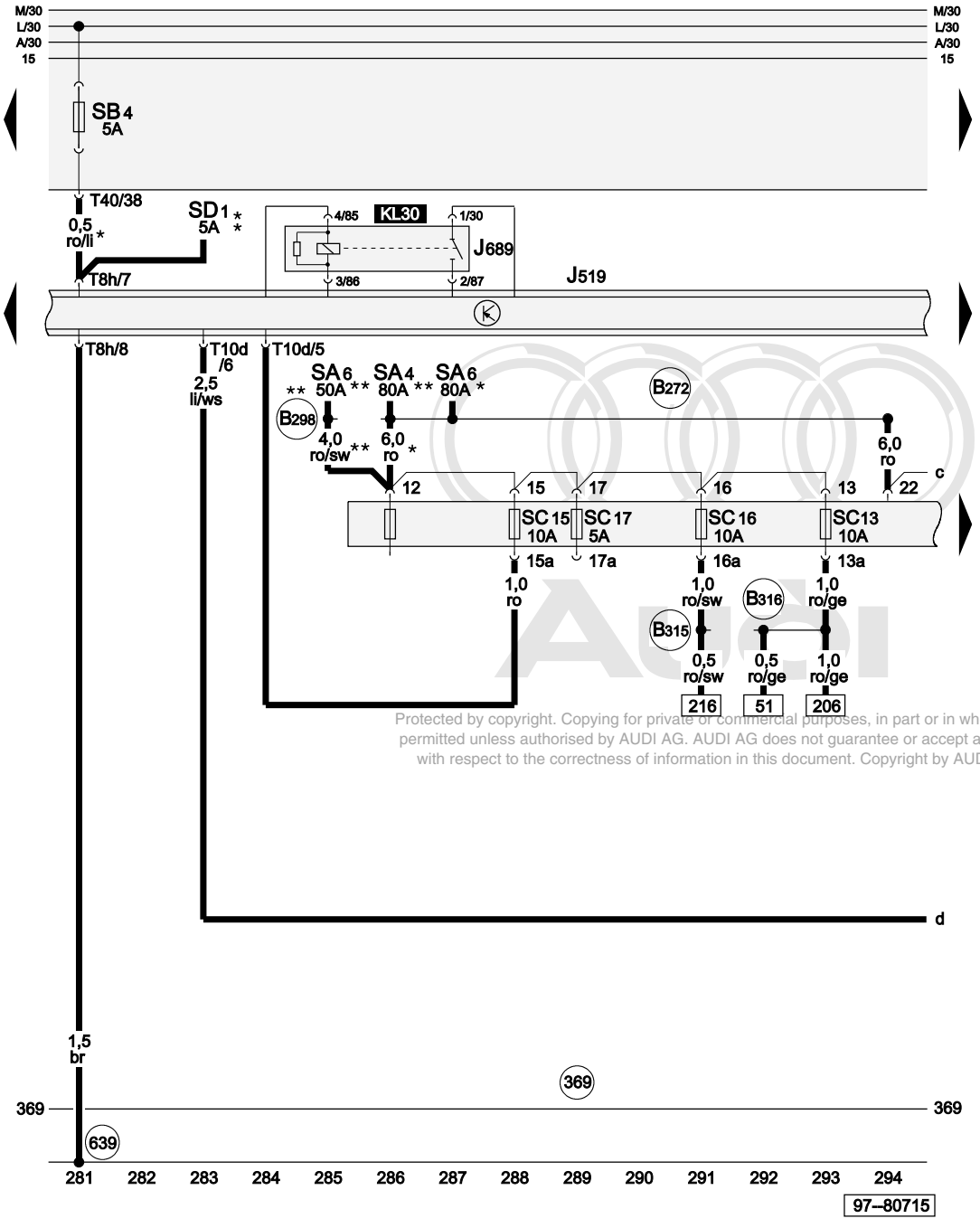


Heated rear window relay, window aerial suppression filter, heated rear window

C18	Window aerial suppression filter
J9	Heated rear window relay
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
53	Earth point, on right in rear lid
61	Earth point, left C-pillar
62	Earth point, right C-pillar
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness

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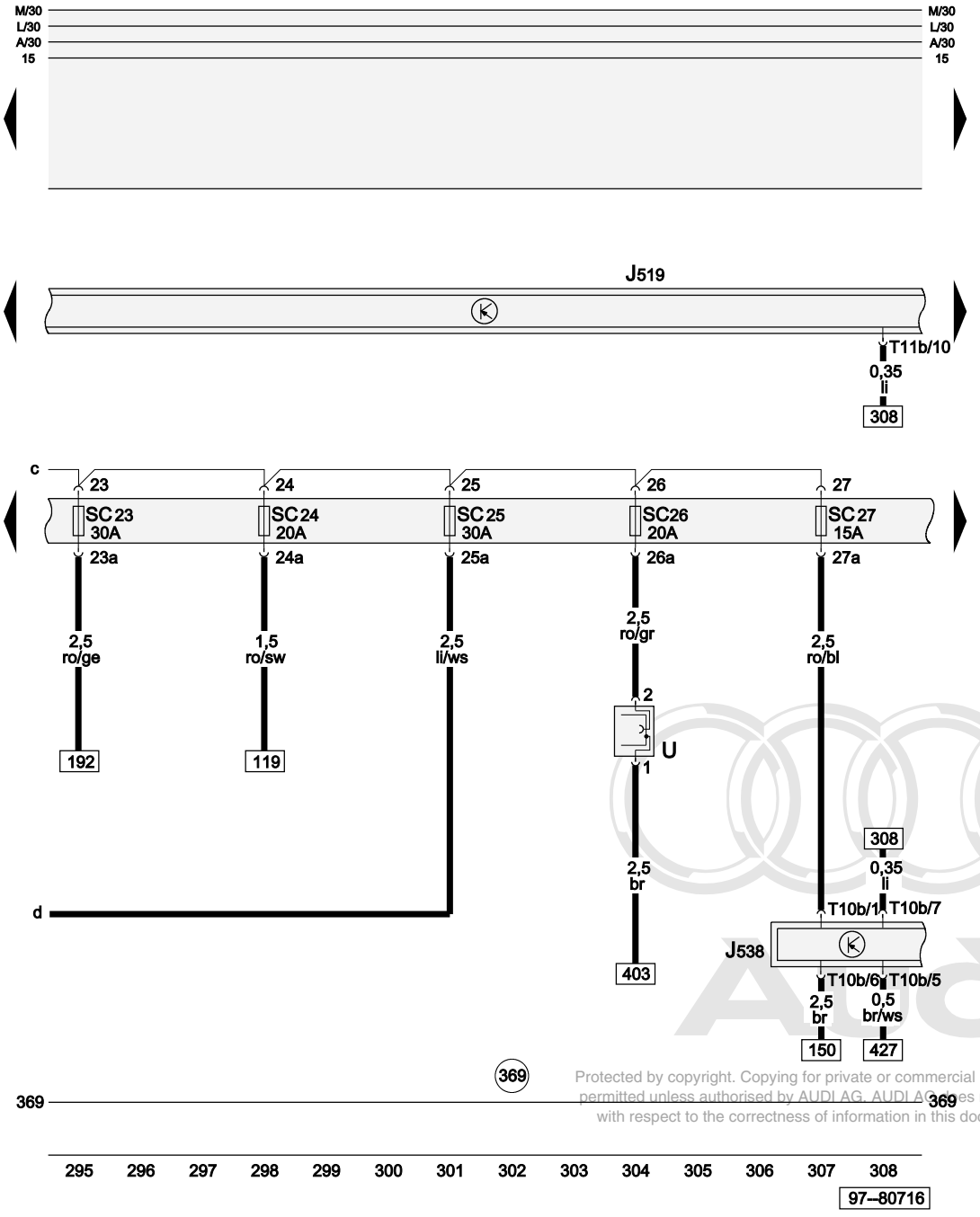


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rs = pink

Terminal 30 voltage supply relay 2, fuses on fuse holder

J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
SA4	Fuse 4 on fuse holder A
SA6	Fuse 6 on fuse holder A
SB4	Fuse 4 on fuse holder B
SC13	Fuse 13 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC16	Fuse 16 on fuse holder C
SC17	Fuse 17 on fuse holder C
SD1	Fuse 1 on fuse holder D
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
639	Earth point, left A-pillar
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B315	Positive connection 1 (30a), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	⇒ applicable Current Flow Diagram with battery in luggage compartment

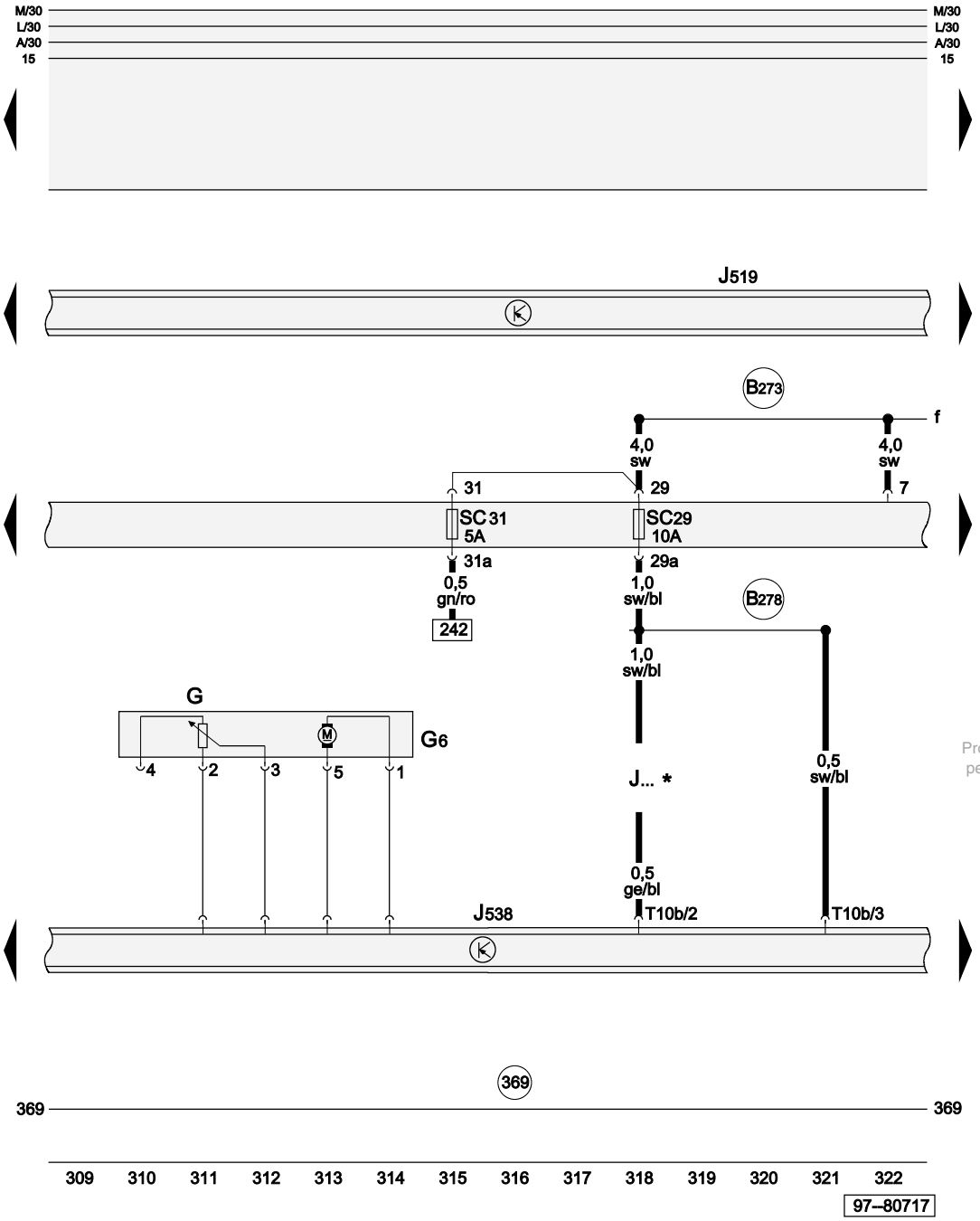


Fuel pump control unit, electric socket, fuses on fuse holder

J519	Onboard supply control unit
J538	Fuel pump control unit
SC23	Fuse 23 on fuse holder C
SC24	Fuse 24 on fuse holder C
SC25	Fuse 25 on fuse holder C
SC26	Fuse 26 on fuse holder C
SC27	Fuse 27 on fuse holder C
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
U	Electric socket
369	Earth connection 4, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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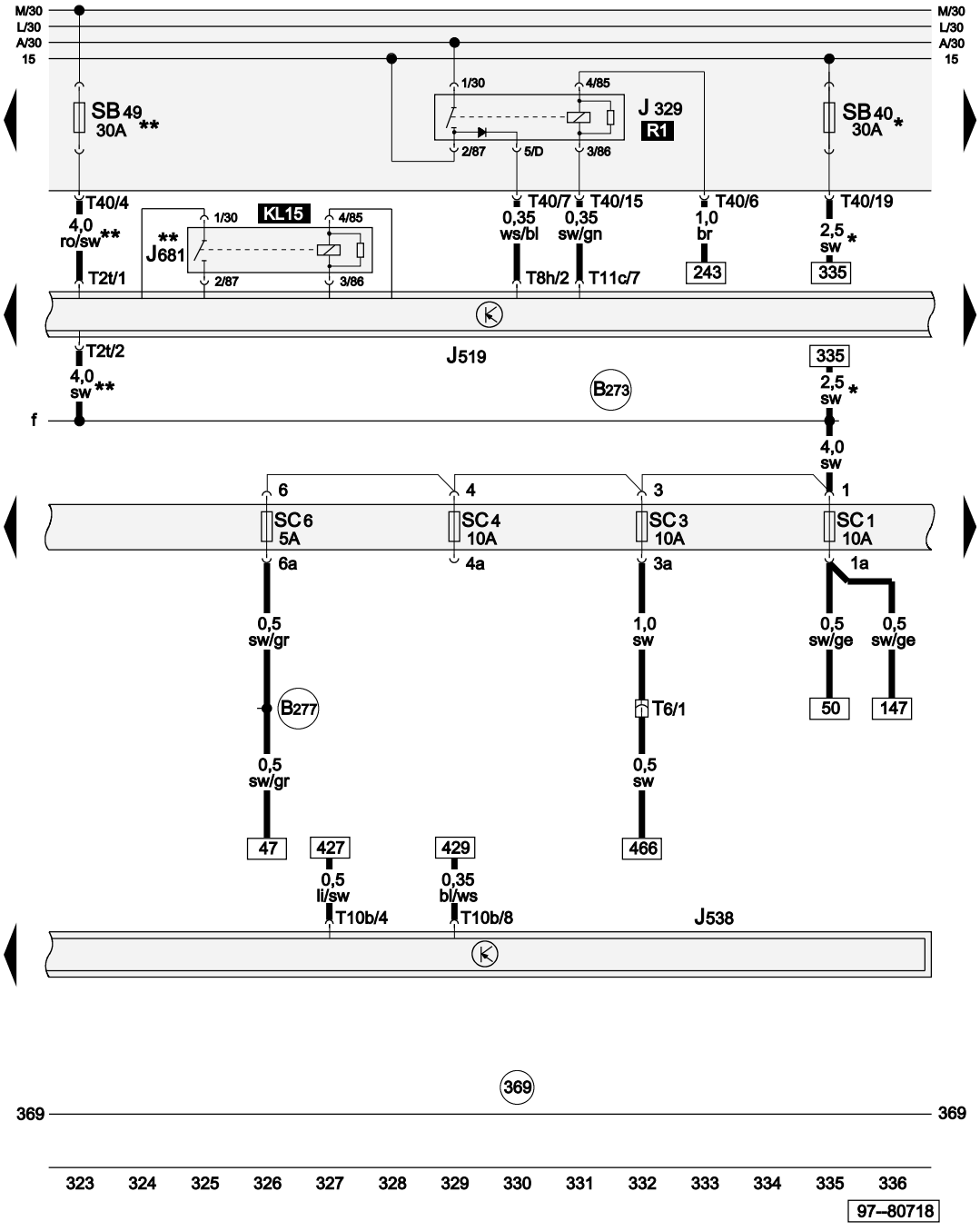


Fuses on fuse holder, fuel gauge sender, fuel system pressurisation pump

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J...	Engine control units
J519	Onboard supply control unit
J538	Fuel pump control unit
SC29	Fuse 29 on fuse holder C
SC31	Fuse 31 on fuse holder C
T10b	10-pin connector, black (connector A)
369	Earth connection 4, in main wiring harness
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable engine Current Flow Diagram

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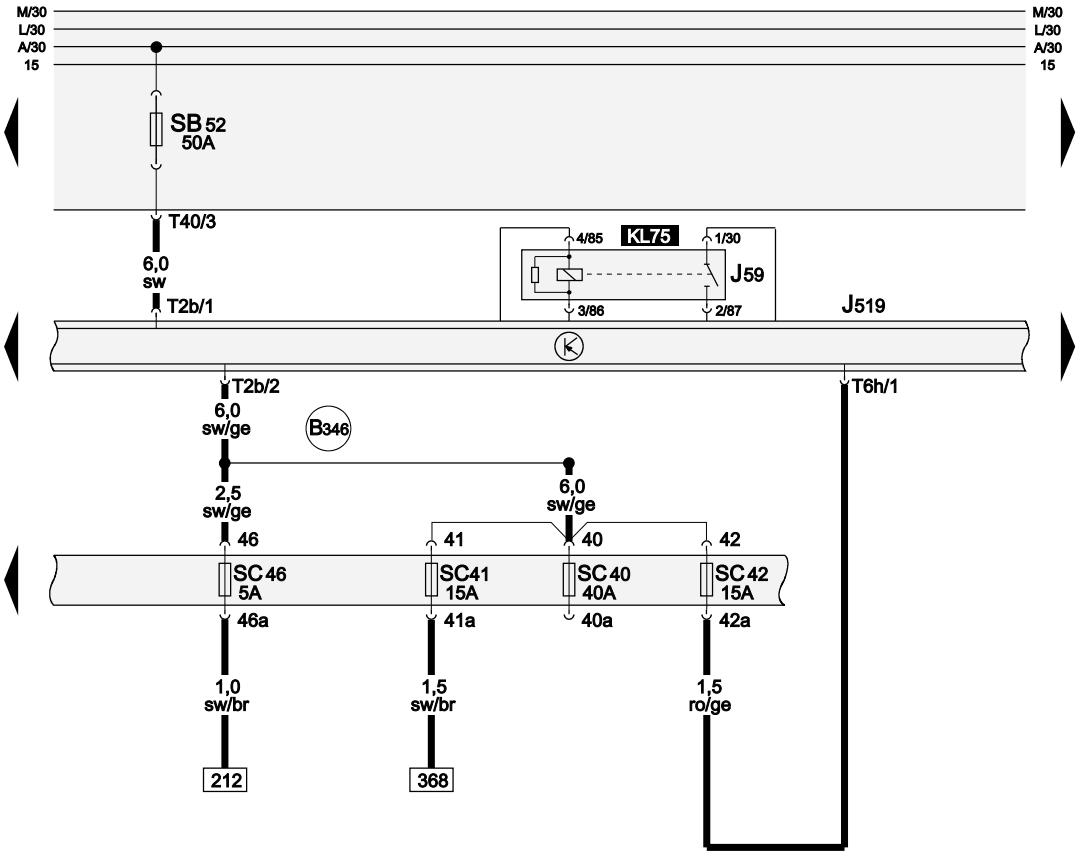


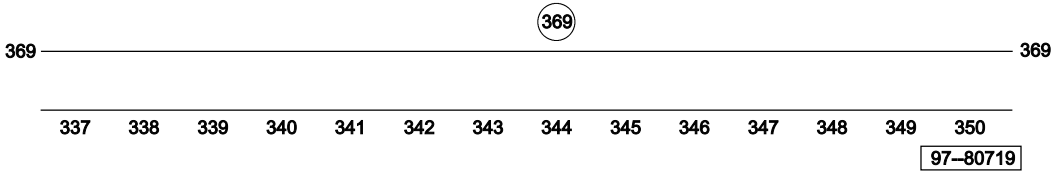
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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or = orange
rs = pink

Terminal 15 voltage supply relay, fuses on fuse holder

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J538	Fuel pump control unit
J681	Terminal 15 voltage supply relay 2
SB40	Fuse 40 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC3	Fuse 3 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC6	Fuse 6 on fuse holder C
T2t	2-pin connector, black (connector L)
T6	6-pin connector, black, near longitudinal member, front left
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only

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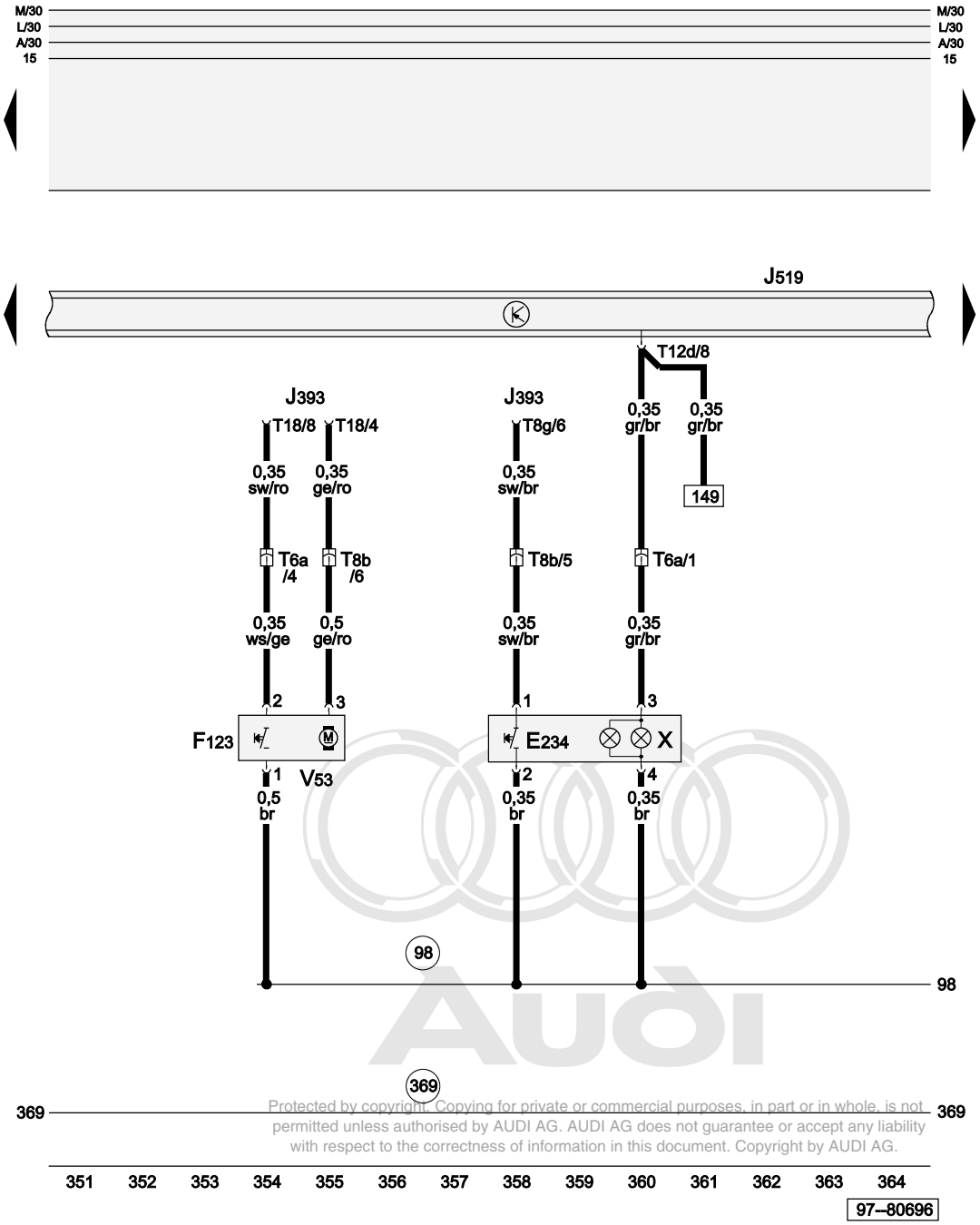


X-contact relief relay, fuses on fuse holder

J59	X-contact relief relay
J519	Onboard supply control unit
SB52	Fuse 52 on fuse holder B
SC40	Fuse 40 on fuse holder C
SC41	Fuse 41 on fuse holder C
SC42	Fuse 41 on fuse holder C
SC46	Fuse 46 on fuse holder C
T2b	2-pin connector, brown (connector I)
T6h	6-pin connector, black (connector J)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B346	Connection 1 (75), in main wiring harness

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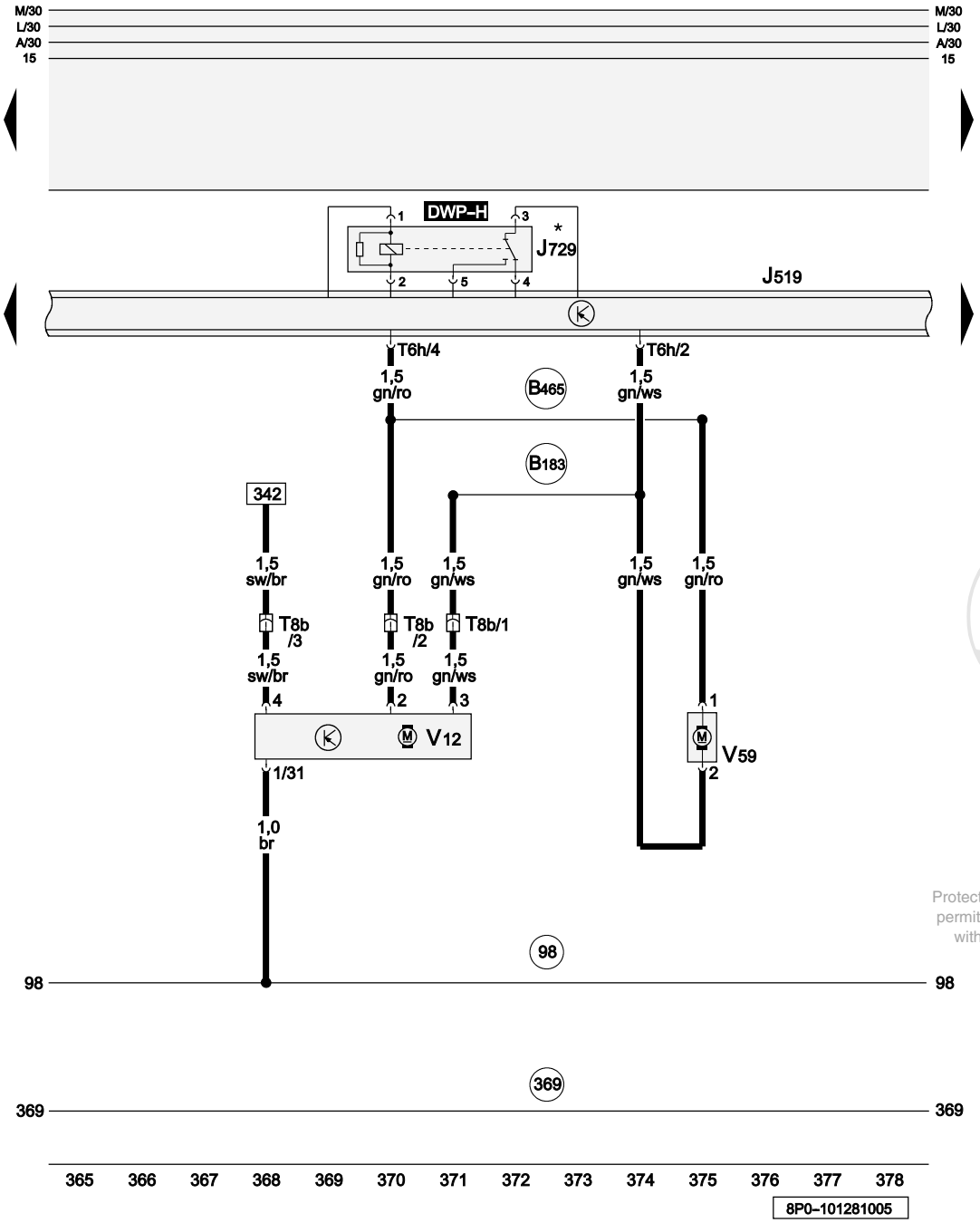


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Rear lid contact switch for anti-theft alarm, rear lid central locking motor, number plate light

E234	Rear lid handle release button
F123	Rear lid contact switch for anti-theft alarm system
J393	Convenience system central control unit
J519	Onboard supply control unit
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
T18	18-pin connector, brown (connector A)
V53	Rear lid central locking motor
X	Number plate light
98	Earth connection, in rear lid wiring harness
369	Earth connection 4, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
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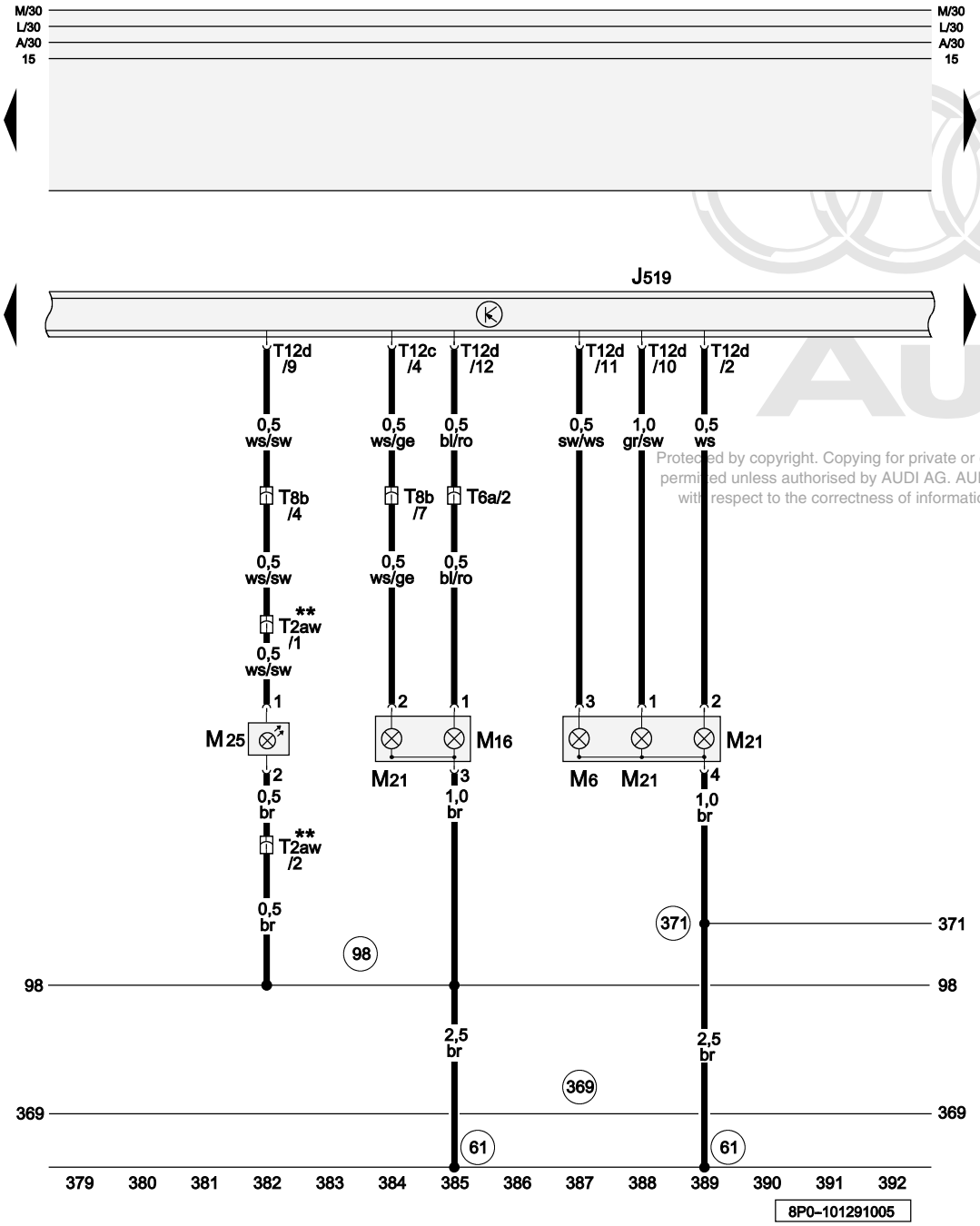


Rear window wiper and washer relay, double washer pump relay 1, washer pump

J519	Onboard supply control unit
J729	Double washer pump relay 1
T6h	6-pin connector, black (connector J)
T8b	8-pin connector, brown, on left C-pillar
V12	Rear window wiper motor
V59	Windscreen and rear window washer pump
98	Earth connection, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
B183	Connection 1 (washer pump), in interior wiring harness
B465	Connection 1, in main wiring harness
*	Rear window washer pump relay

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rs	=	pink

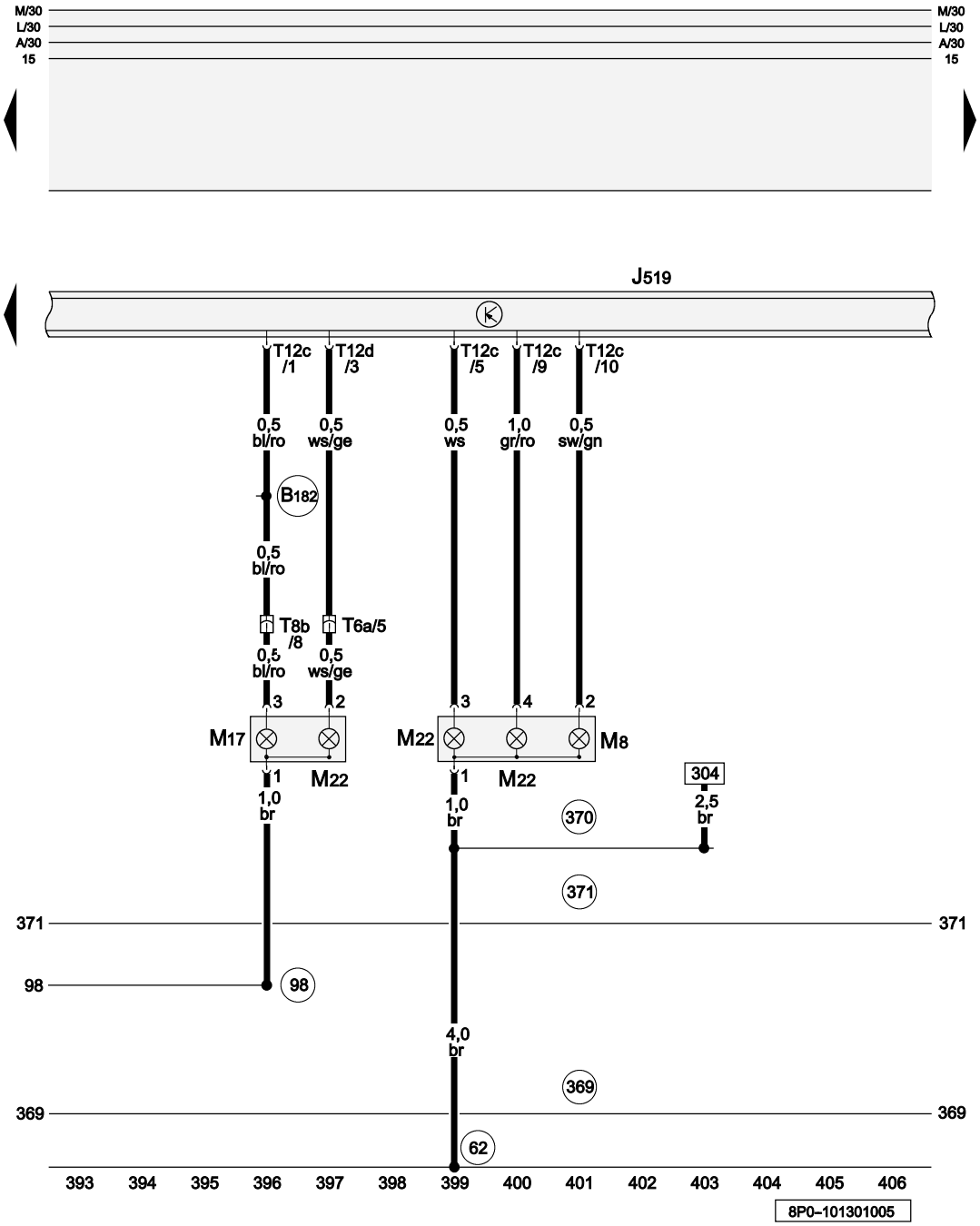


ws = white
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gn = green
bl = blue
gr = grey
li = purple
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or = orange
rs = pink

Left tail light, left tail light, rear left turn signal, left brake light, left reversing light

J519	Onboard supply control unit
M6	Rear left turn signal bulb
M16	Left reversing light bulb
M21	Left brake and tail light bulb
M25	High level brake light bulb
T2aw	2-pin connector, black, on right in rear lid
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
61	Earth point, left C-pillar
98	Earth connection, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
**	for models with S line equipment only

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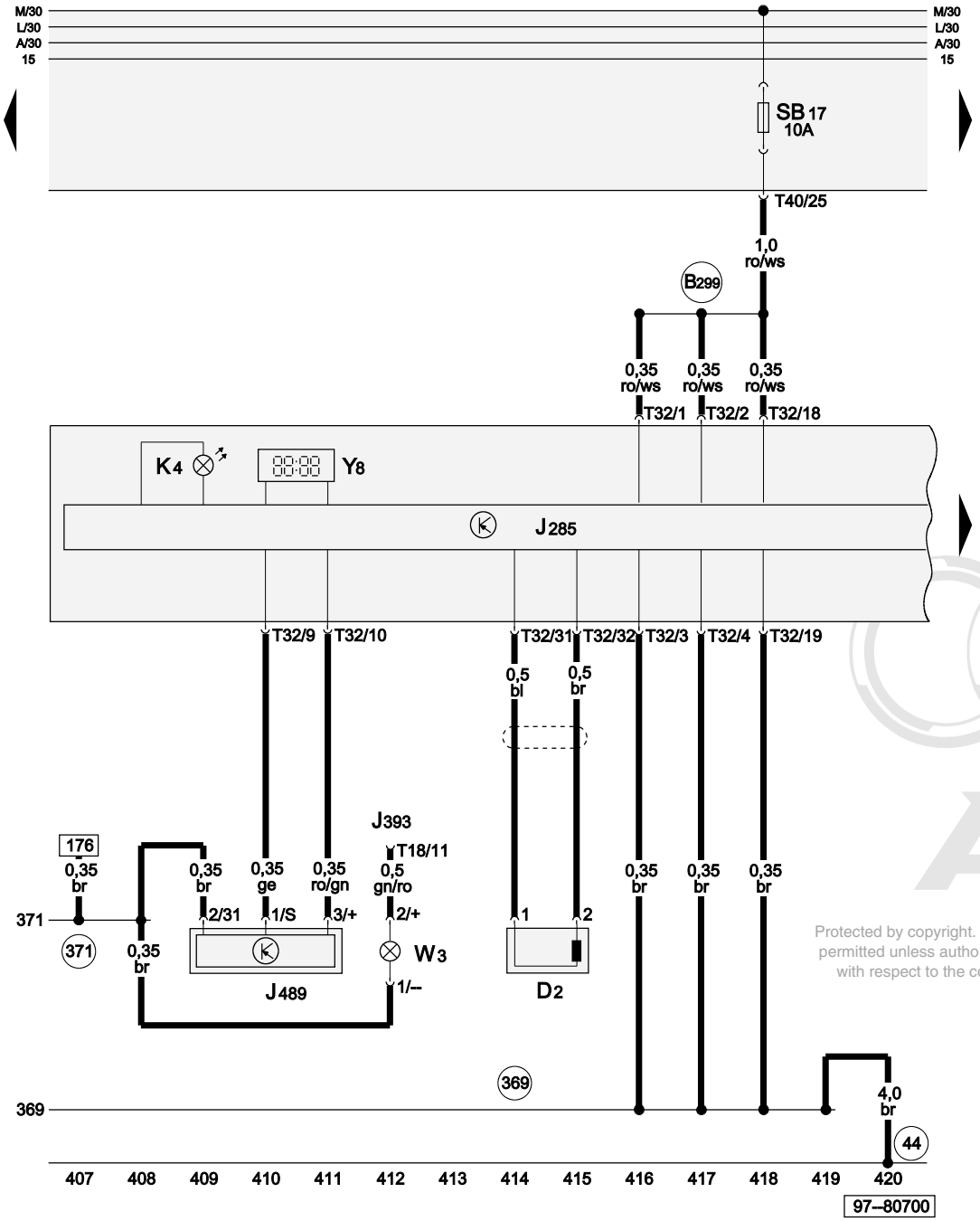


Right tail light, rear right turn signal, right brake light, right reversing light

J519	Onboard supply control unit
M8	Rear right turn signal bulb
M17	Right reversing light bulb
M22	Right brake and tail light bulb
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
62	Earth point, right C-pillar
98	Earth connection, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B182	Connection (RL), in interior wiring harness

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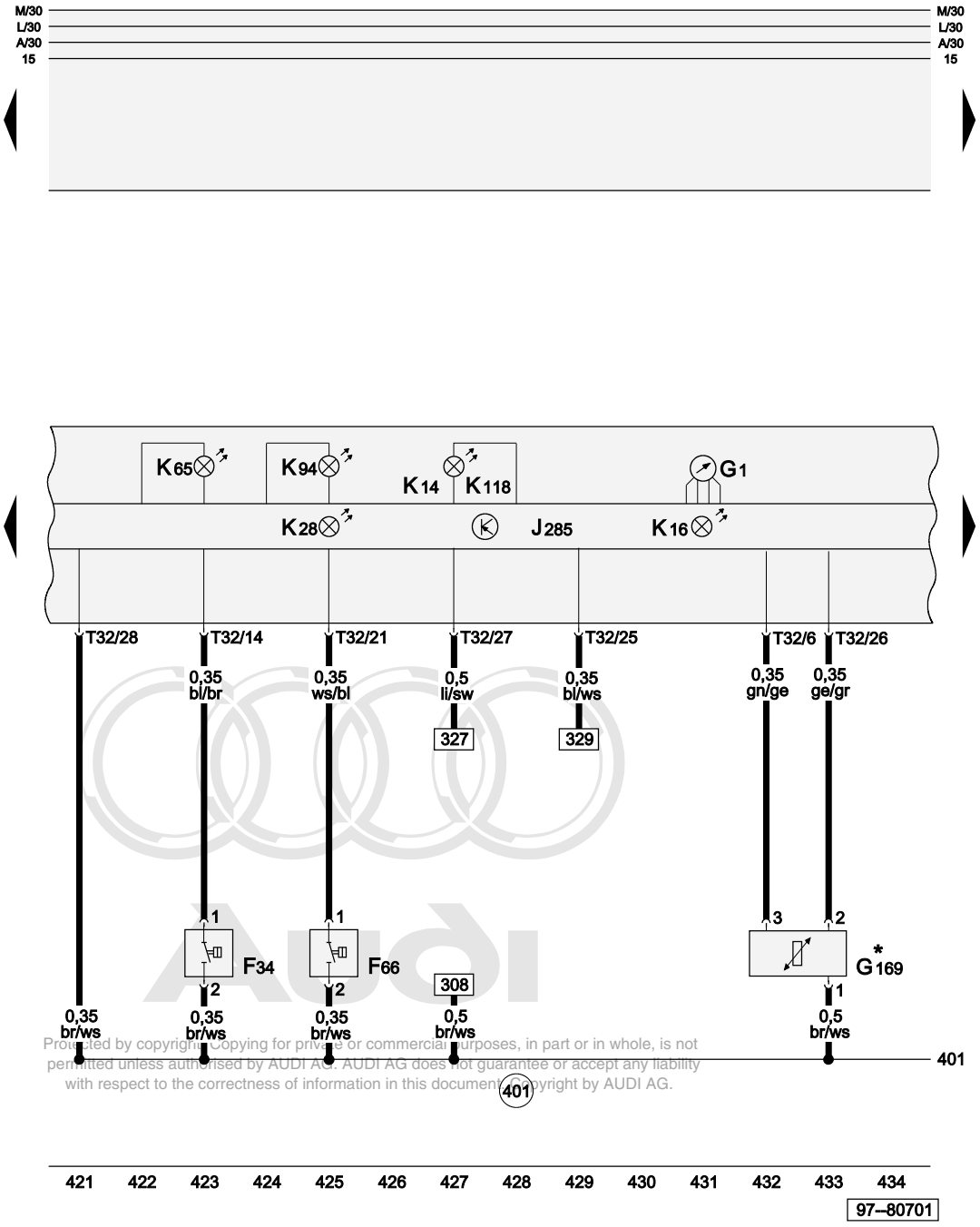


Control unit in dash panel insert, radio controlled clock, luggage compartment light

D2	Immobilizer reader coil
J285	Control unit in dash panel insert
J393	Convenience system central control unit
J489	Radio controlled clock receiver
K4	Side light warning lamp
SB17	Fuse 17 on fuse holder B
T18	18-pin connector, brown (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
W3	Luggage compartment light
Y8	Radio controlled clock
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
B299	Positive connection 3 (30), in main wiring harness

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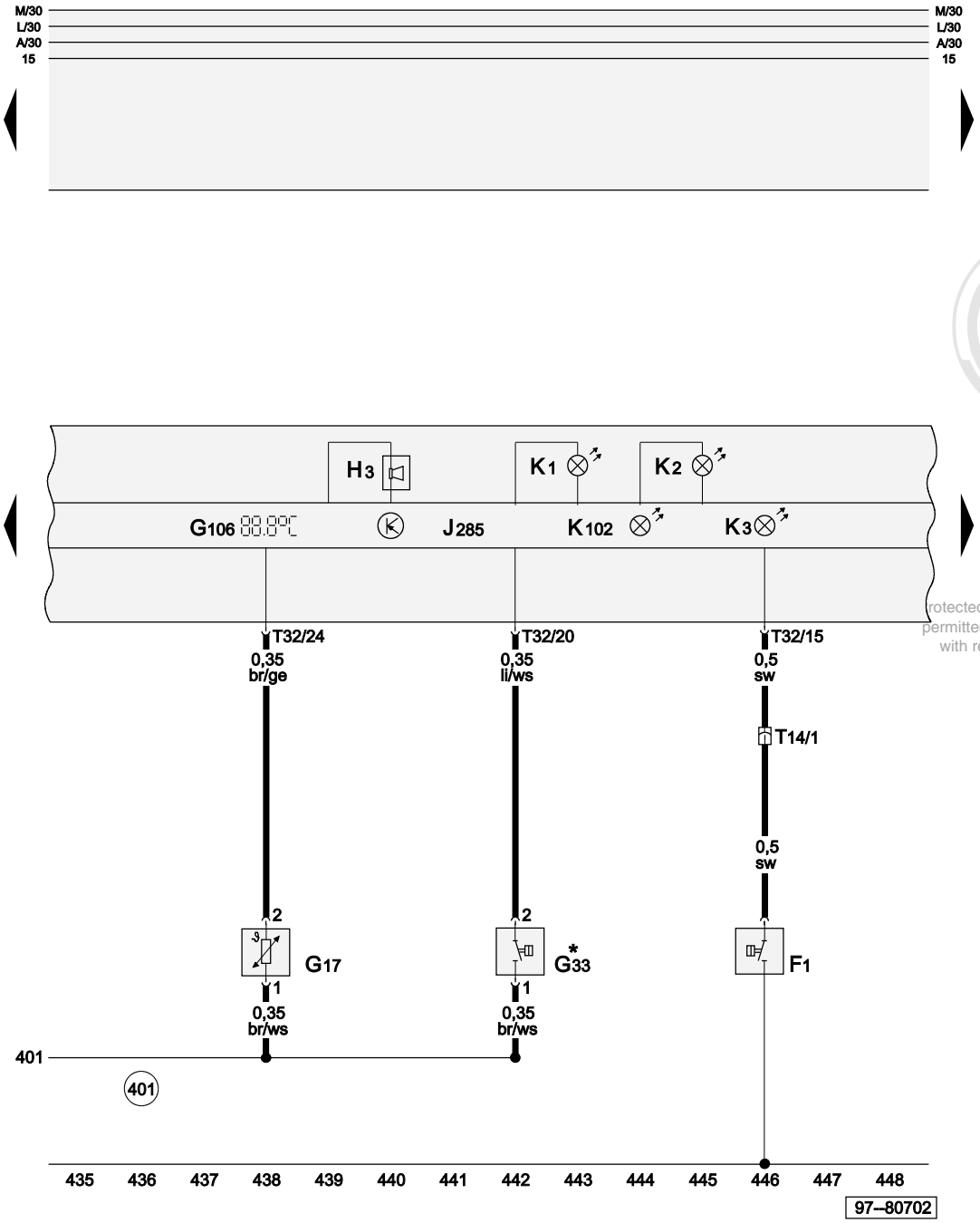


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Control unit in dash panel insert, fuel gauge, coolant shortage indicator switch

F34	Brake fluid level warning contact
F66	Coolant shortage indicator switch
G1	Fuel gauge
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
K14	Handbrake warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
T32	32-pin connector, blue (connector A)
(401)	Earth connection (sender earth), in interior wiring harness
*	for models with four-wheel drive only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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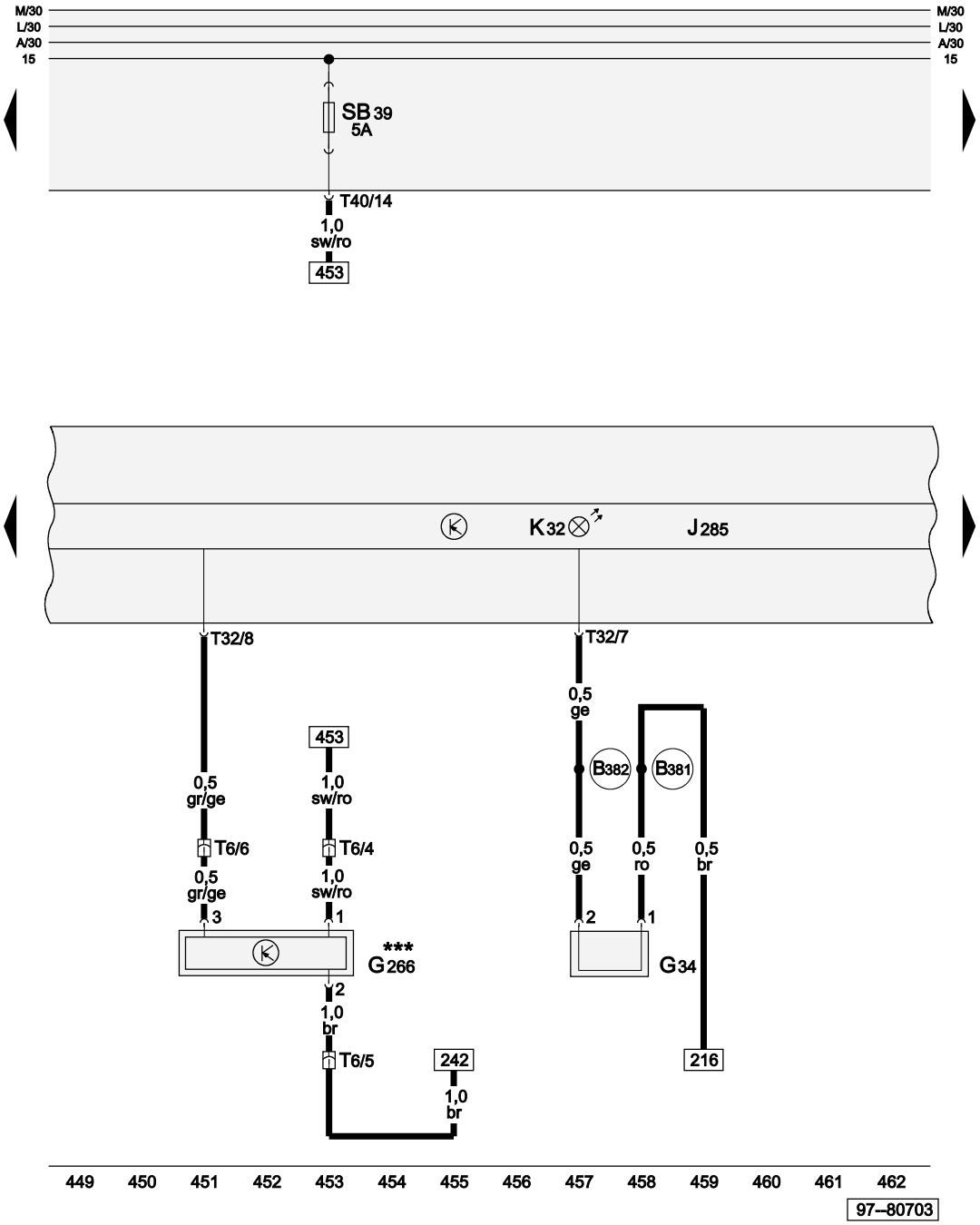


Control unit in dash panel insert, ambient temperature sensor, windscreen washer fluid level sender, oil pressure switch, buzzer and gong

F1	Oil pressure switch
G17	Ambient temperature sensor
G33	Windscreen washer fluid level sender
G106	Ambient temperature indicator
H3	Buzzer and gong
J285	Control unit in dash panel insert
K1	Main beam warning lamp
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K102	Rear lid closed warning lamp
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
(401)	Earth connection (sender earth), in interior wiring harness
*	for models with windscreen washer fluid level sender/water level only

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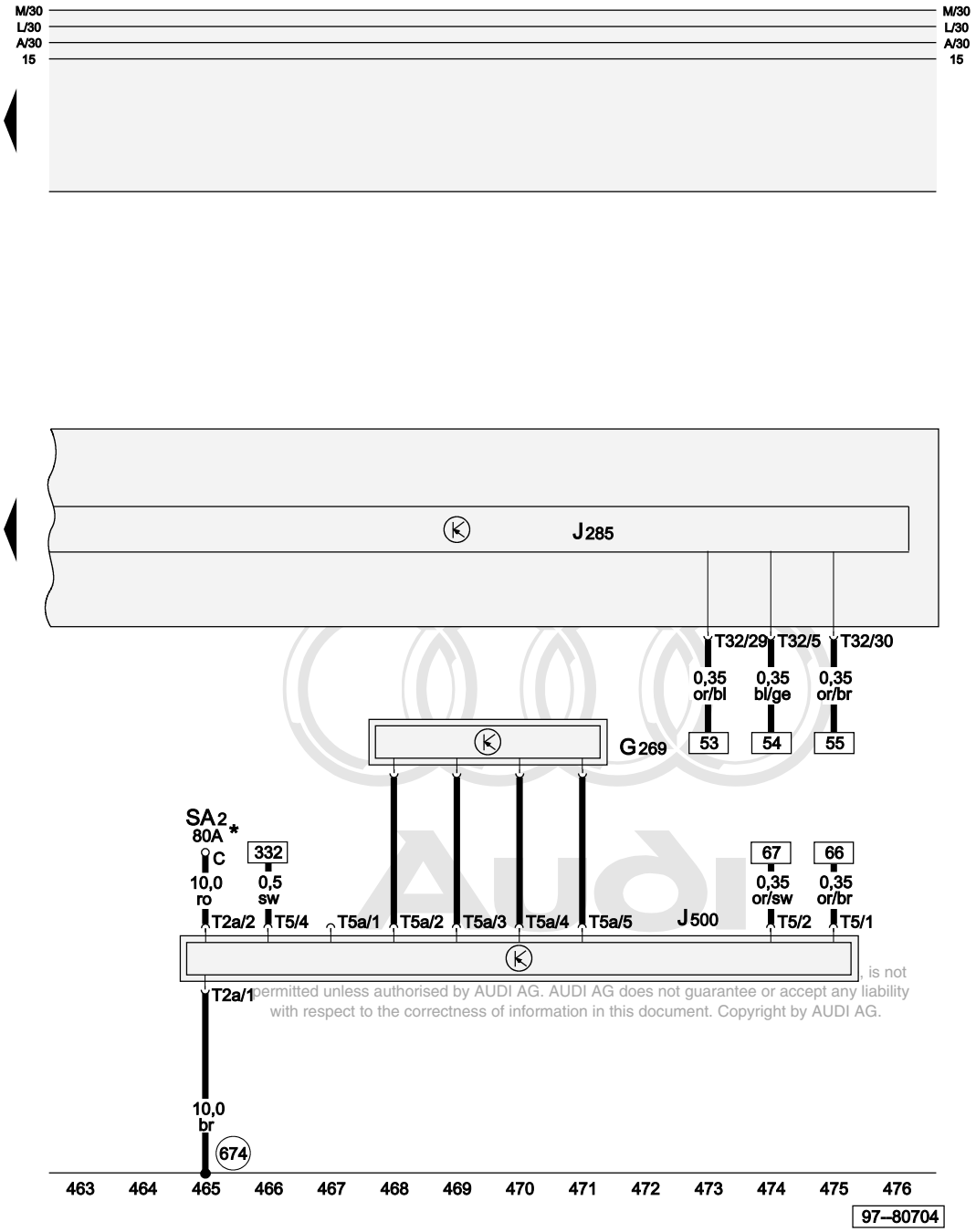


Control unit in dash panel insert, front left brake pad wear sender, oil level and oil temperature sender

G34	Front left brake pad wear sender
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K32	Brake pad warning lamp
SB39	Fuse 39 on fuse holder B
T6	6-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B381	Connection 3 (brake wear indicator), in main wiring harness
B382	Connection 4 (brake wear indicator), in main wiring harness
***	for models with extended servicing intervals (ESI) only

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Control unit in dash panel insert, steering moment sender, power steering control unit

G269	Steering moment sender
J285	Control unit in dash panel insert
J500	Power steering control unit
SA2	Fuse 2 on fuse holder A
T2a	2-pin connector, black (connector A)
T5	5-pin connector, white (connector C)
T5a	5-pin connector, black (connector B)
T32	32-pin connector, blue (connector A)
674	Earth point 4, on front of left longitudinal member
*	⇒ applicable Current Flow Diagram with battery in luggage compartment or engine compartment

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Basic equipment

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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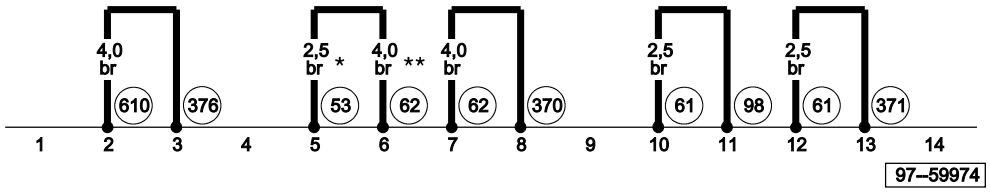


Earth points, earth connections

53	Earth point, on right in rear lid
61	Earth point, left C-pillar
62	Earth point, right C-pillar
98	Earth connection, in rear lid wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front

* for models without radio only
** for models with radio only

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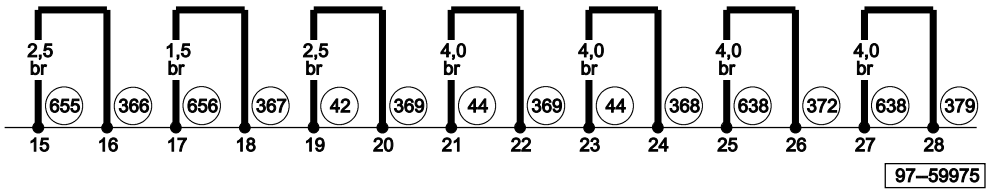


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br	=	brown
gn	=	green
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or	=	orange
rs	=	pink



Earth points, earth connections

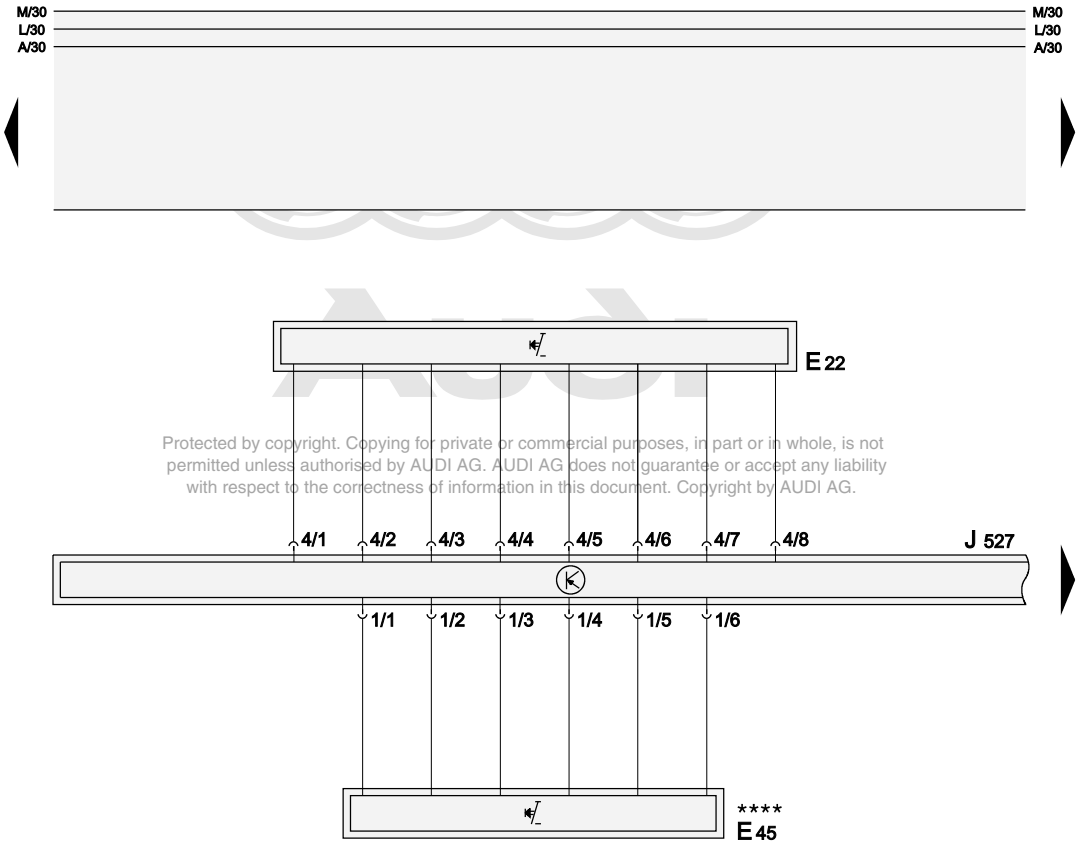
- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 366 Earth connection 1, in main wiring harness
- 367 Earth connection 2, in main wiring harness
- 368 Earth connection 3, in main wiring harness
- 369 Earth connection 4, in main wiring harness
- 372 Earth connection 7, in main wiring harness
- 379 Earth connection 14, in main wiring harness
- 638 Earth point, right A-pillar
- 655 Earth point, on left headlight
- 656 Earth point, on right headlight



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sw = black
ro = red
br = brown
gn = green
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Audi

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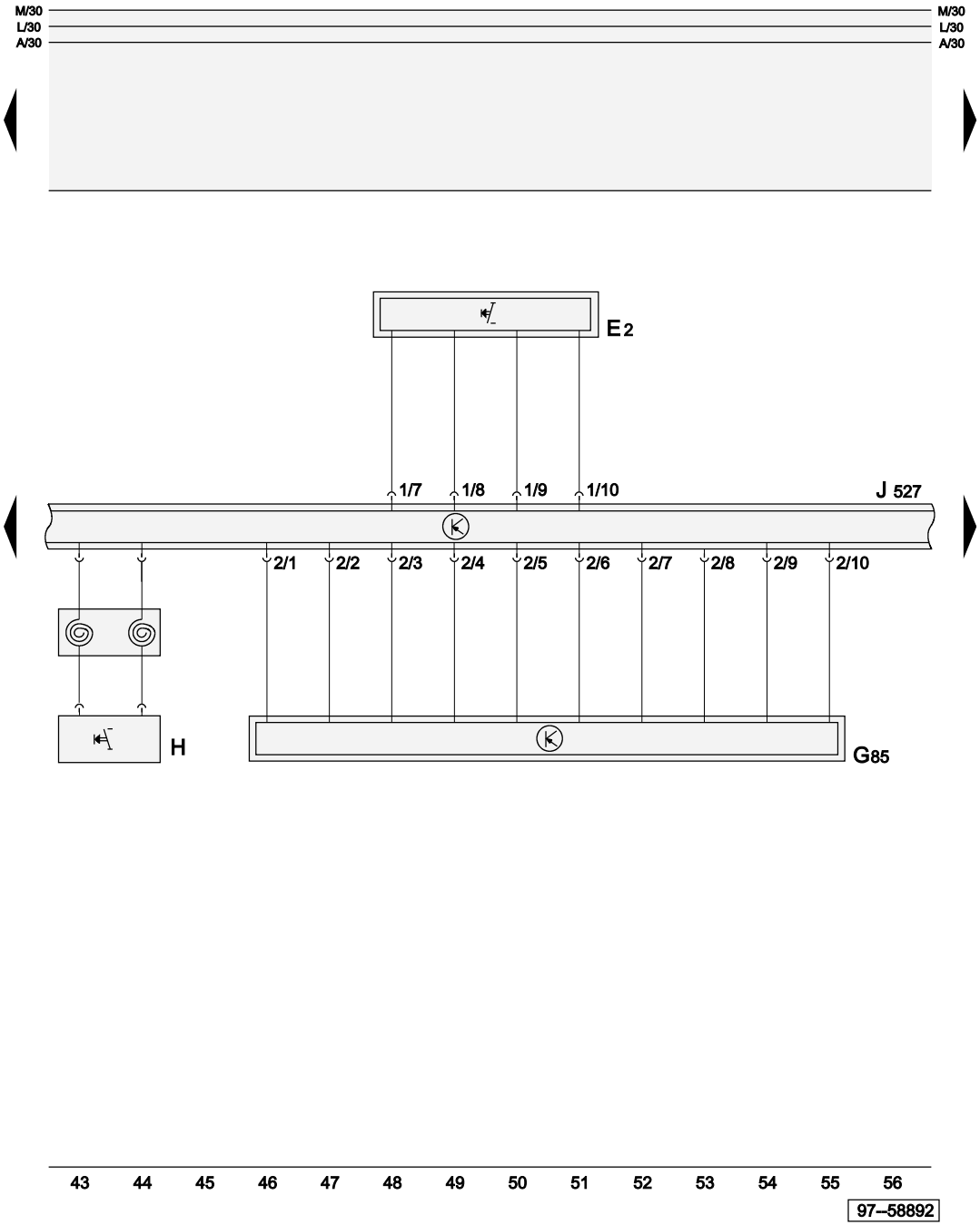


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Intermittent wiper switch, cruise control system switch

E22	Intermittent wiper switch
E45	Cruise control system switch
J527	Steering column electronics control unit
****	for models with cruise control system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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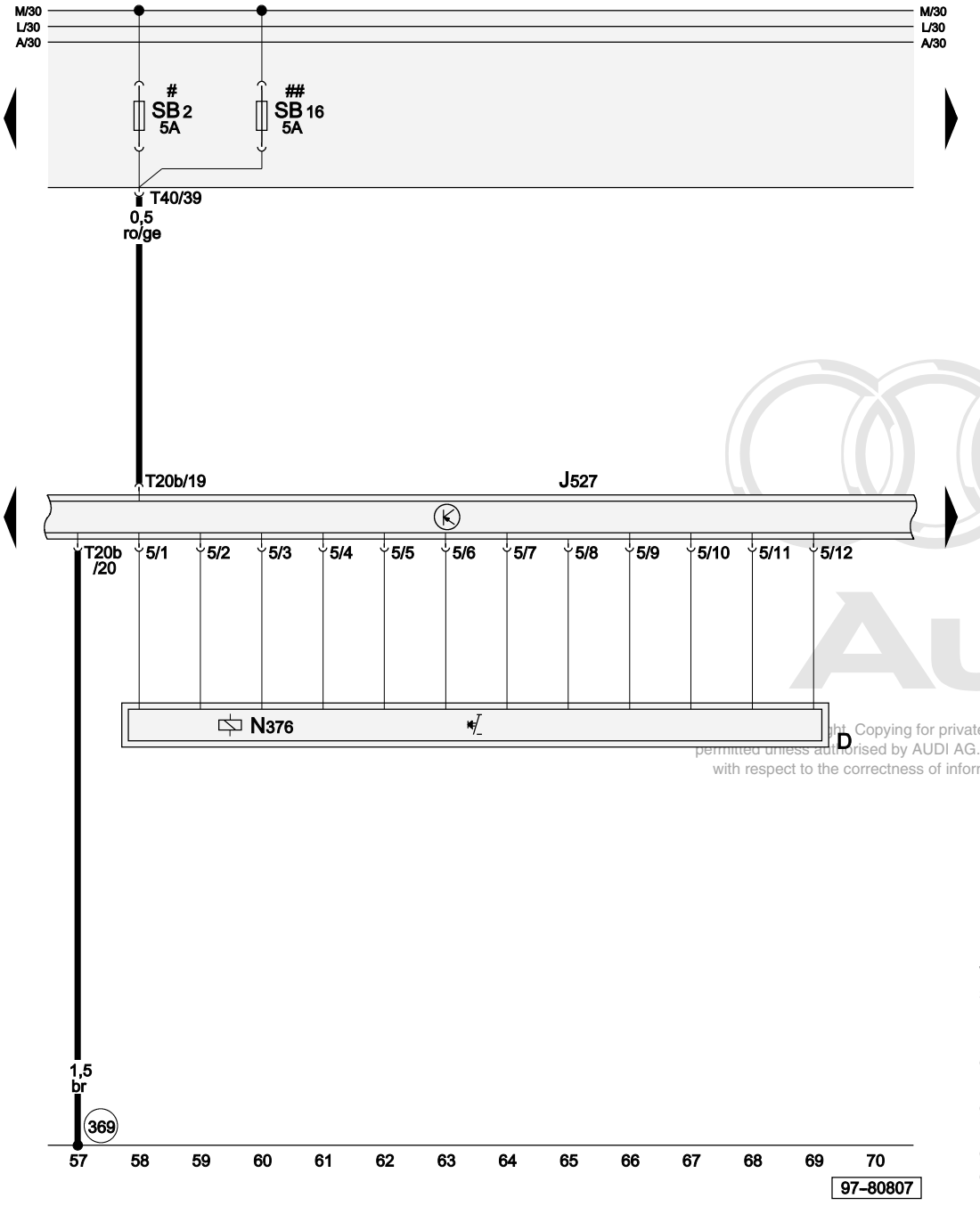


Turn signal switch

E2	Turn signal switch
G85	Steering angle sender
H	Horn plate
J527	Steering column electronics control unit

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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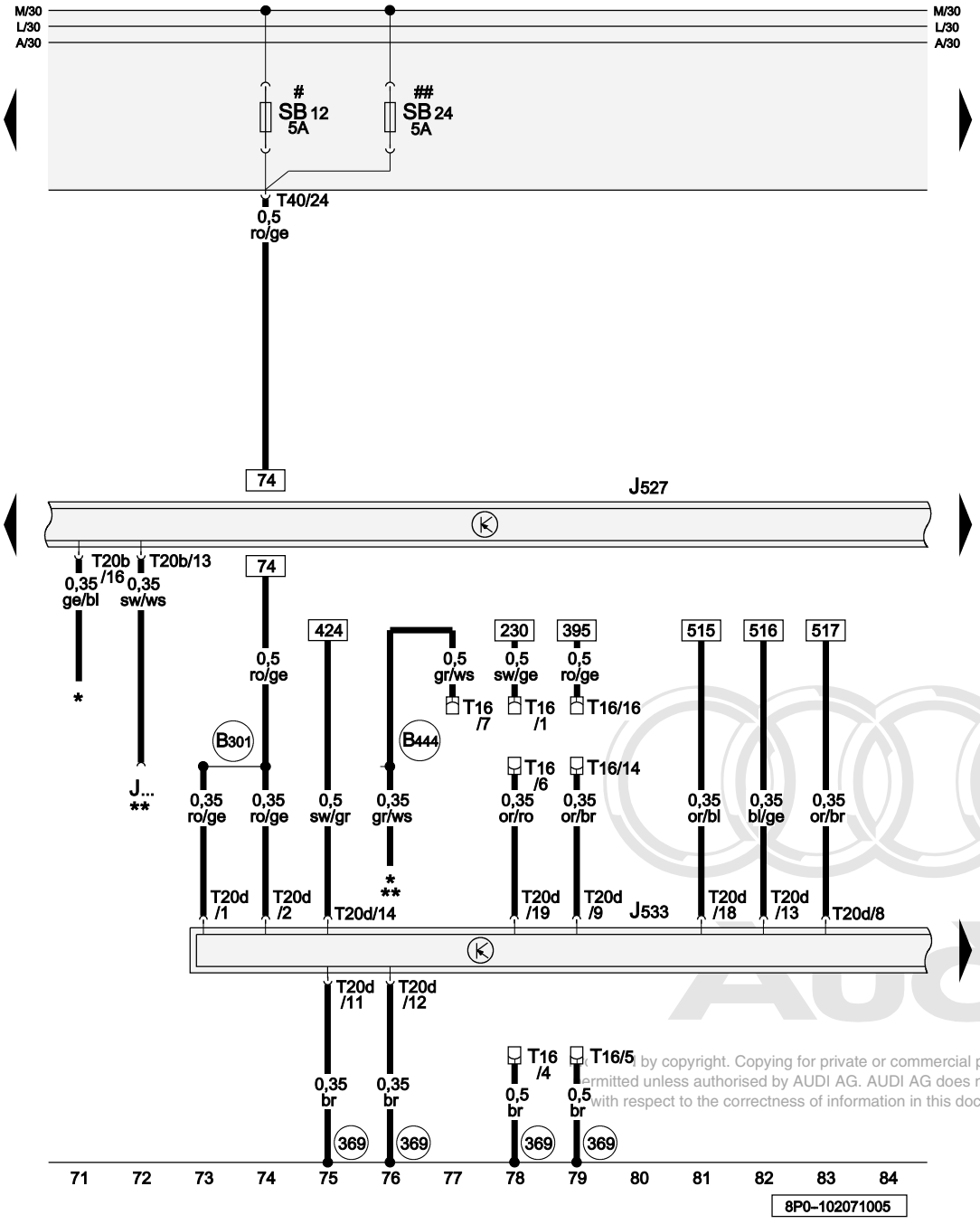


Ignition/starter switch

D	Ignition/starter switch
J527	Steering column electronics control unit
N376	Ignition key withdrawal lock solenoid
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(369)	Earth connection 4, in main wiring harness
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

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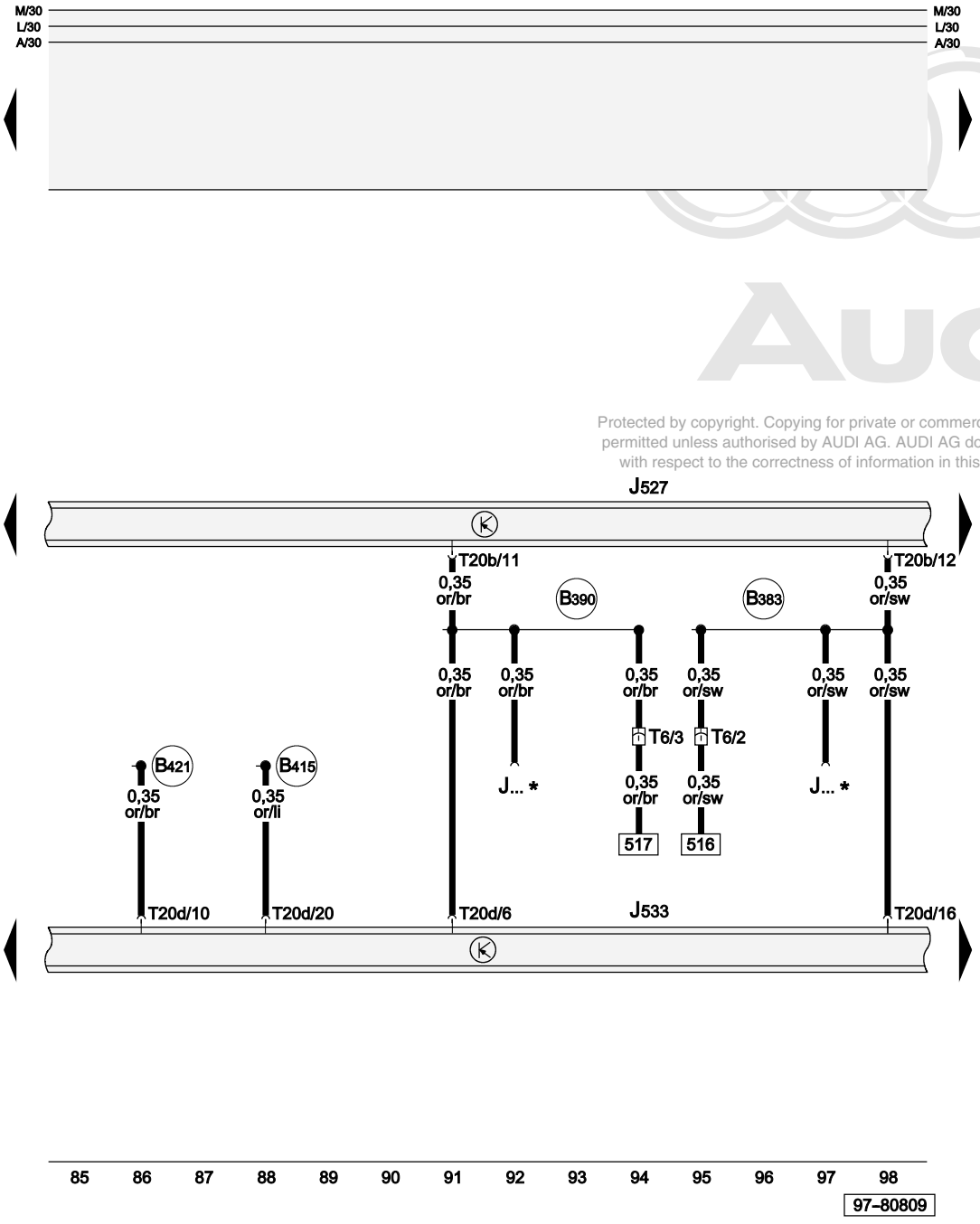


Diagnostic connector, data bus diagnostic interface

J...	Engine control units
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB12	Fuse 12 on fuse holder B
SB24	Fuse 24 on fuse holder B
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	⇒ applicable Current Flow Diagram: automatic gearbox
**	⇒ applicable engine Current Flow Diagram
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

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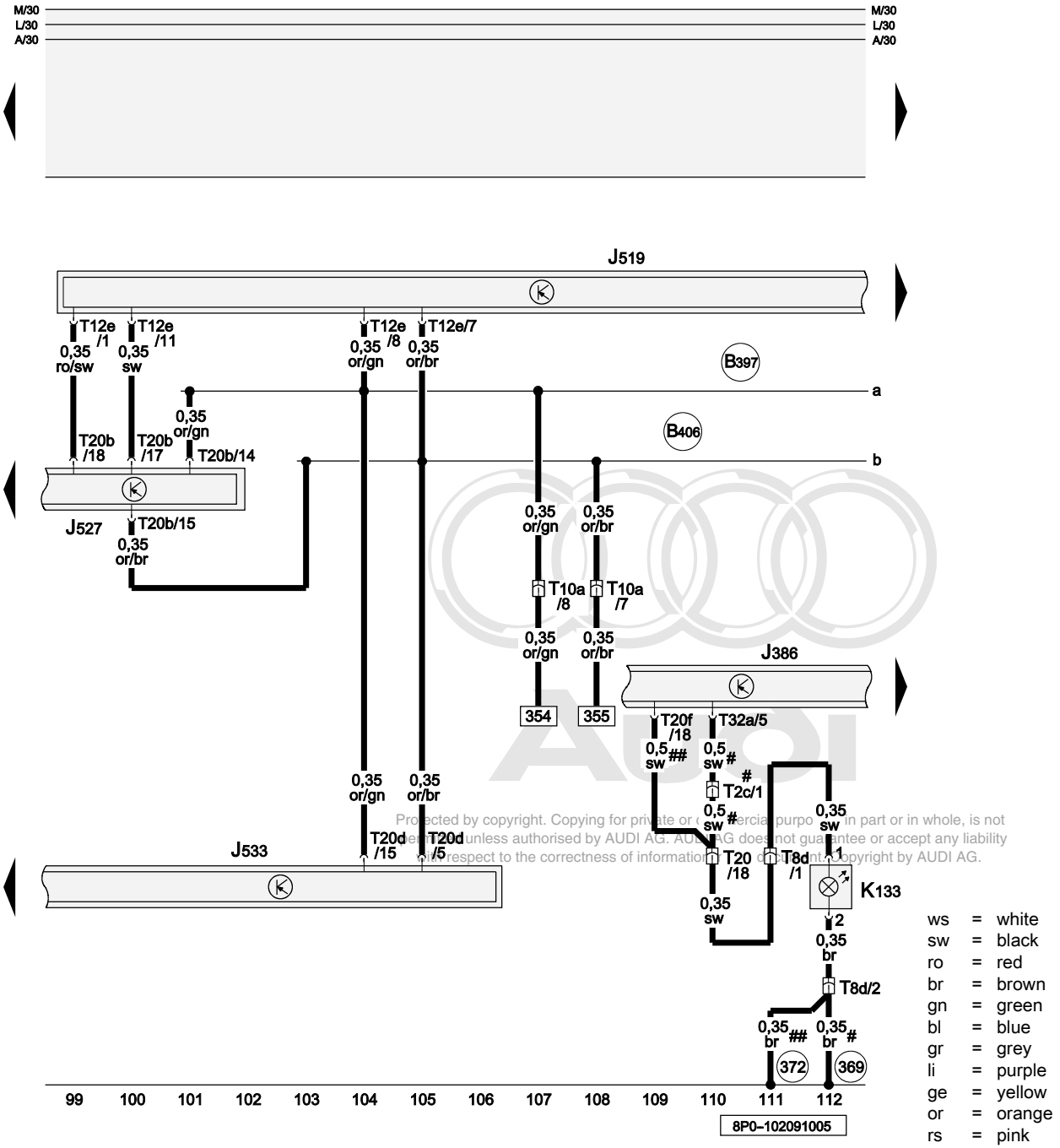


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gn = green
bl = blue
gr = grey
li = purple
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or = orange
rs = pink

Data bus diagnostic interface, drive train CAN bus, infotainment CAN bus

J...	Engine control units
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T6	6-pin connector, black, near longitudinal member, front left
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	⇒ applicable engine Current Flow Diagram

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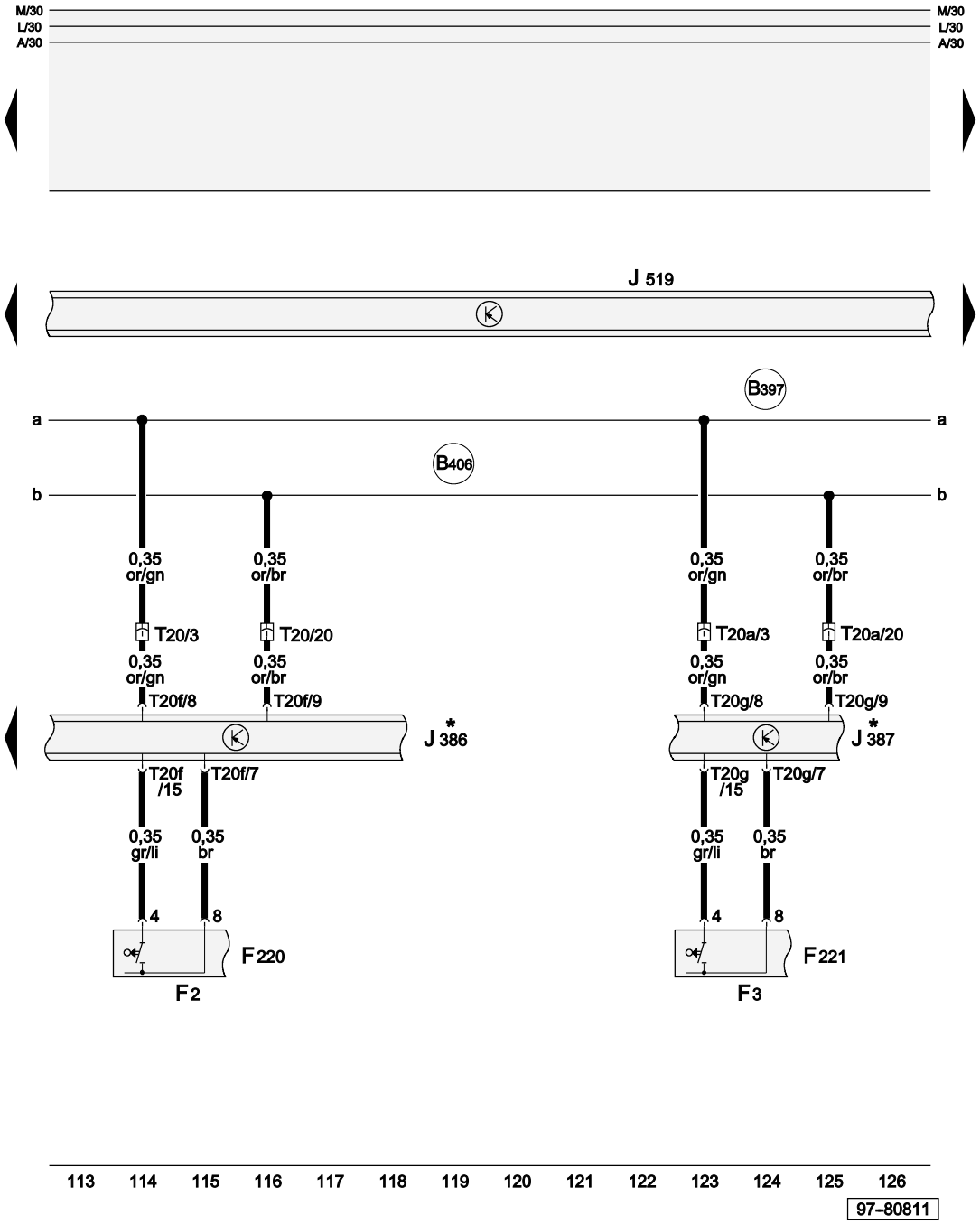


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Data bus diagnostic interface, convenience CAN bus

J386	Driver door control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K133	Central locking deadlock function warning lamp
T2c	2-pin connector, black, behind door trim driver door
T8d	8-pin connector, black, behind centre console
T10a	10-pin connector, black, behind the glove compartment
T12e	12-pin connector, black (connector G)
T20	20-pin connector, black, door A-pillar left
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T20f	20-pin connector, black (connector A)
T32a	32-pin connector, grey (connector C)
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	is dropped from November 2005
##	applicable from November 2005

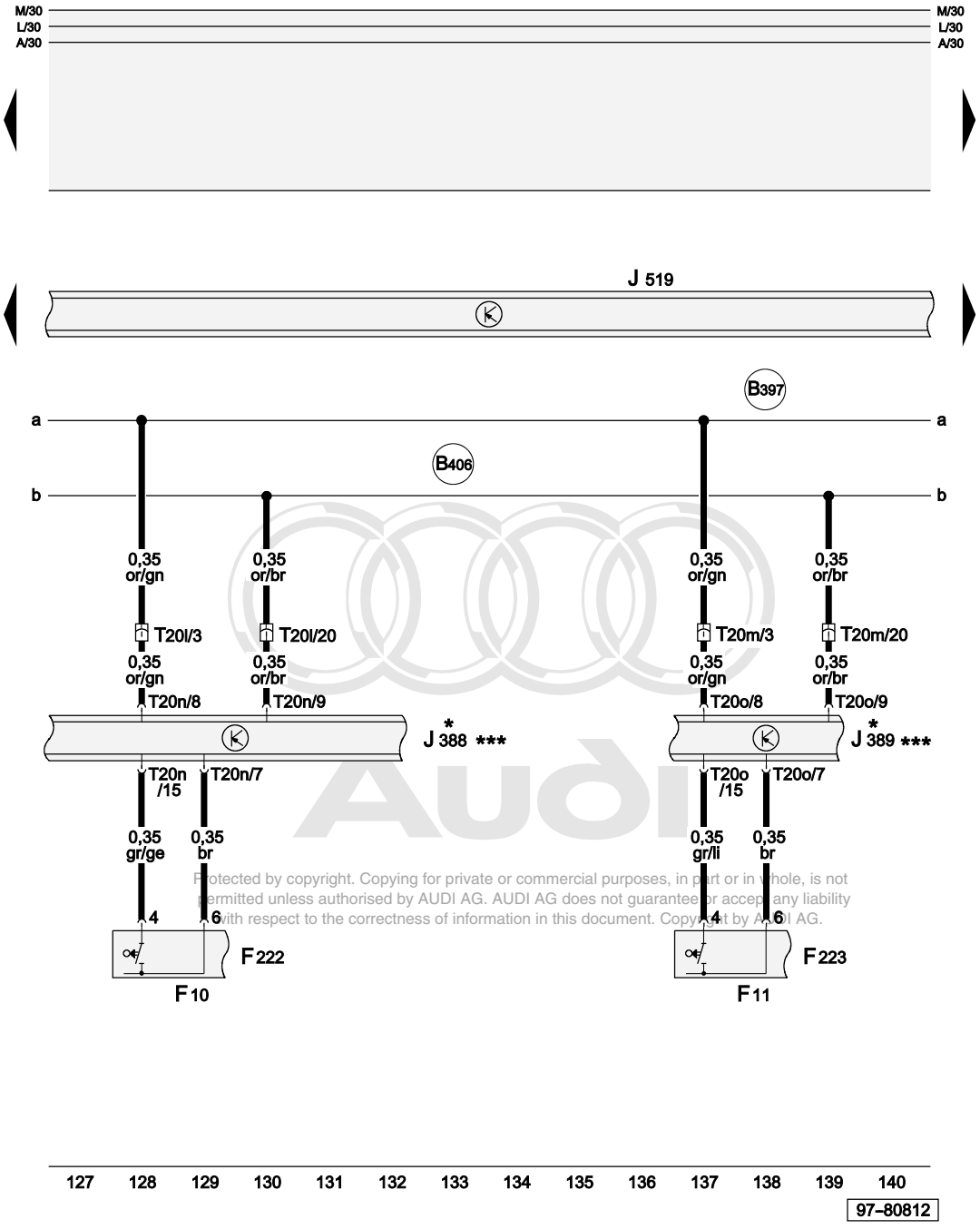


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gr = grey
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Convenience CAN bus, driver door contact switch, front passenger door contact switch

F2	Driver door contact switch
F3	Front passenger door contact switch
F220	Driver side central locking lock unit
F221	Front passenger side central locking lock unit
J386	Driver door control unit
J387	Front passenger door control unit
J519	Onboard supply control unit
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Voltage supply ⇒ applicable Current Flow Diagram: convenience system

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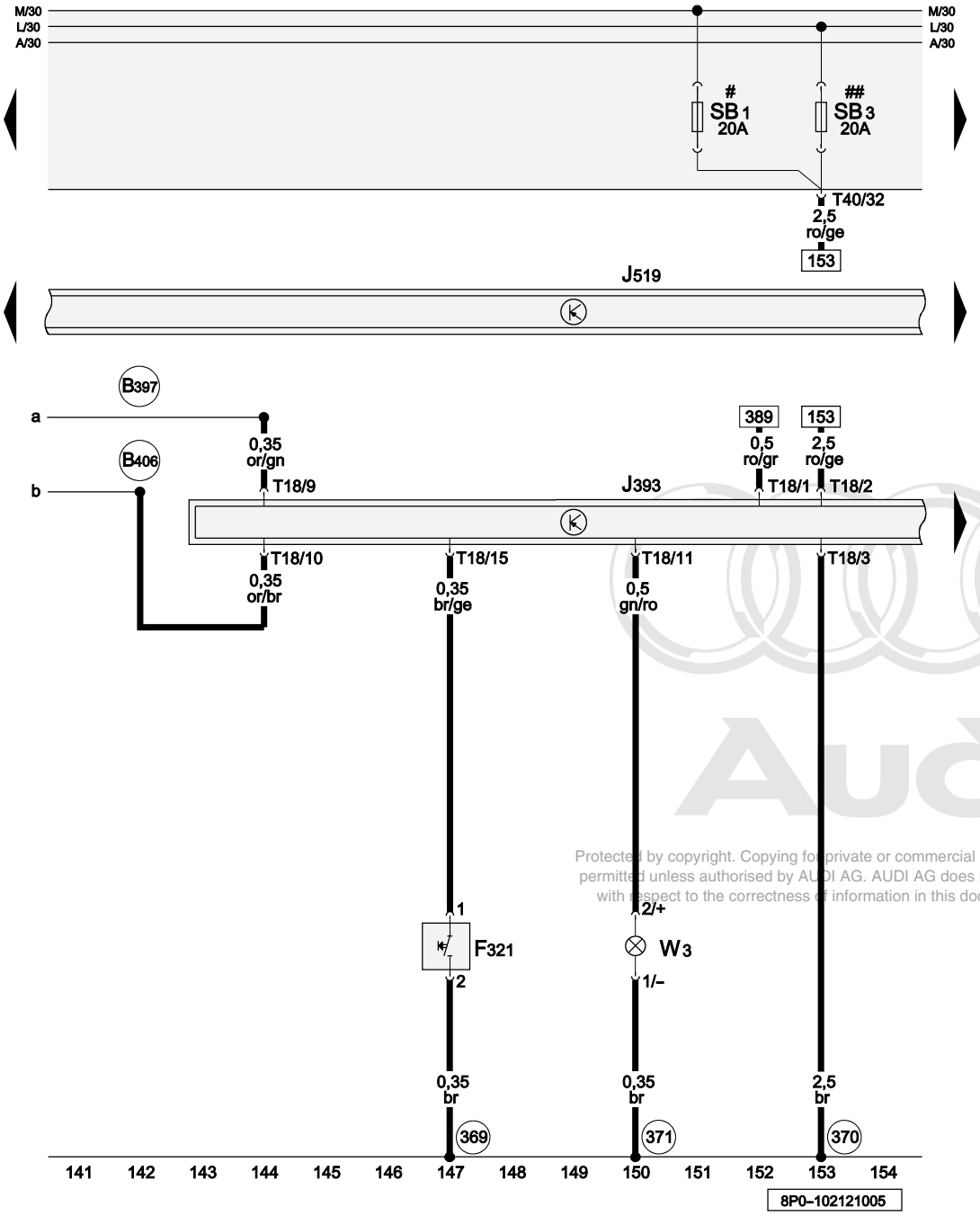


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Convenience CAN bus, rear door contact switch

F10	Rear left door contact switch
F11	Rear right door contact switch
F222	Rear left central locking lock unit
F223	Rear right central locking lock unit
J388	Rear left door control unit
J389	Rear right door control unit
J519	Onboard supply control unit
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
T20n	20-pin connector, black (connector A)
T20o	20-pin connector, black (connector A)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Voltage supply ⇒ applicable Current Flow Diagram: convenience system
***	for models with 5-door models only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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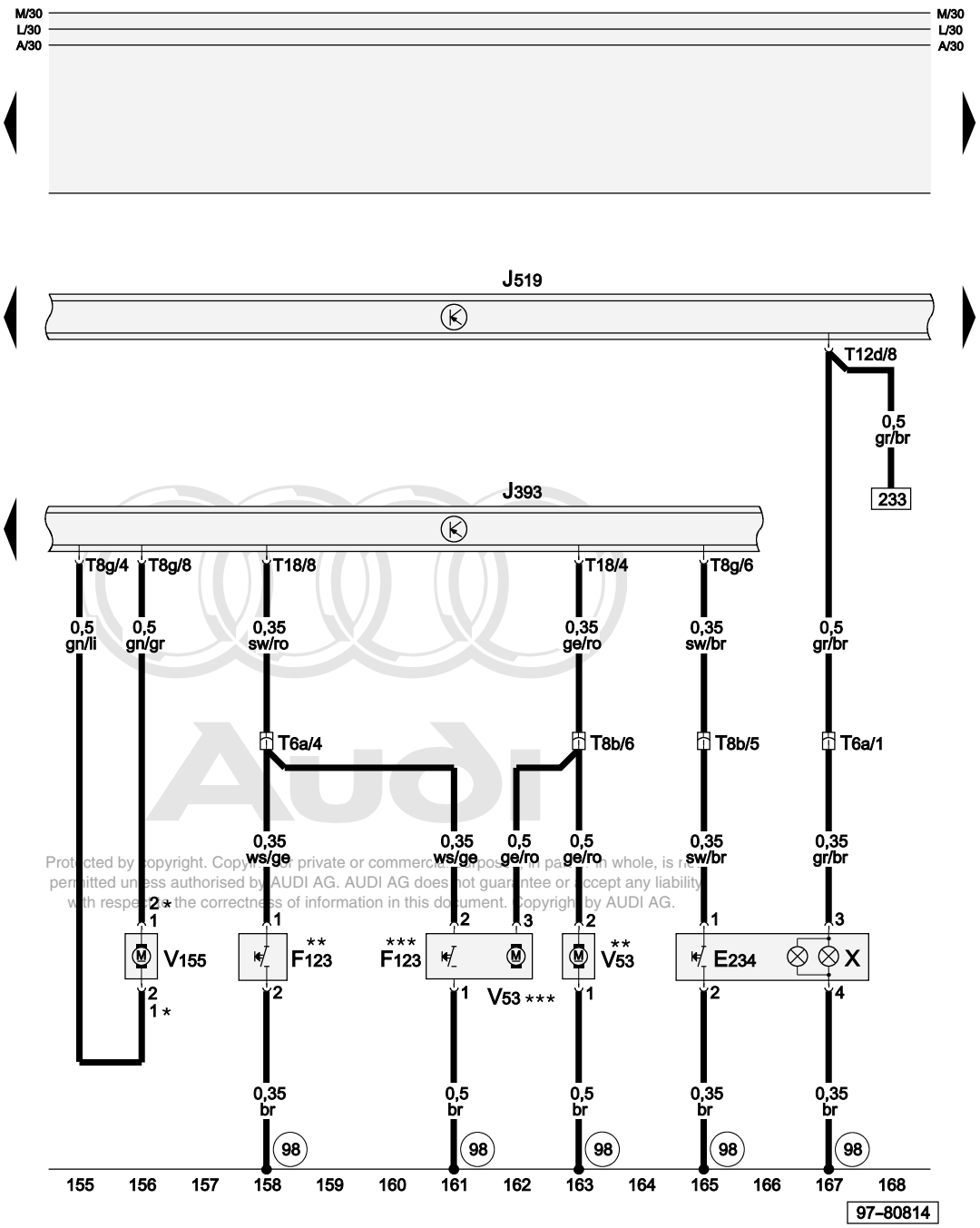


Parking brake contact switch, luggage compartment light

F321	Parking brake contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
SB1	Fuse 1 on fuse holder B
SB3	Fuse 3 on fuse holder B
T18	18-pin connector, brown (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
W3	Luggage compartment light
369	Earth connection 4, in main wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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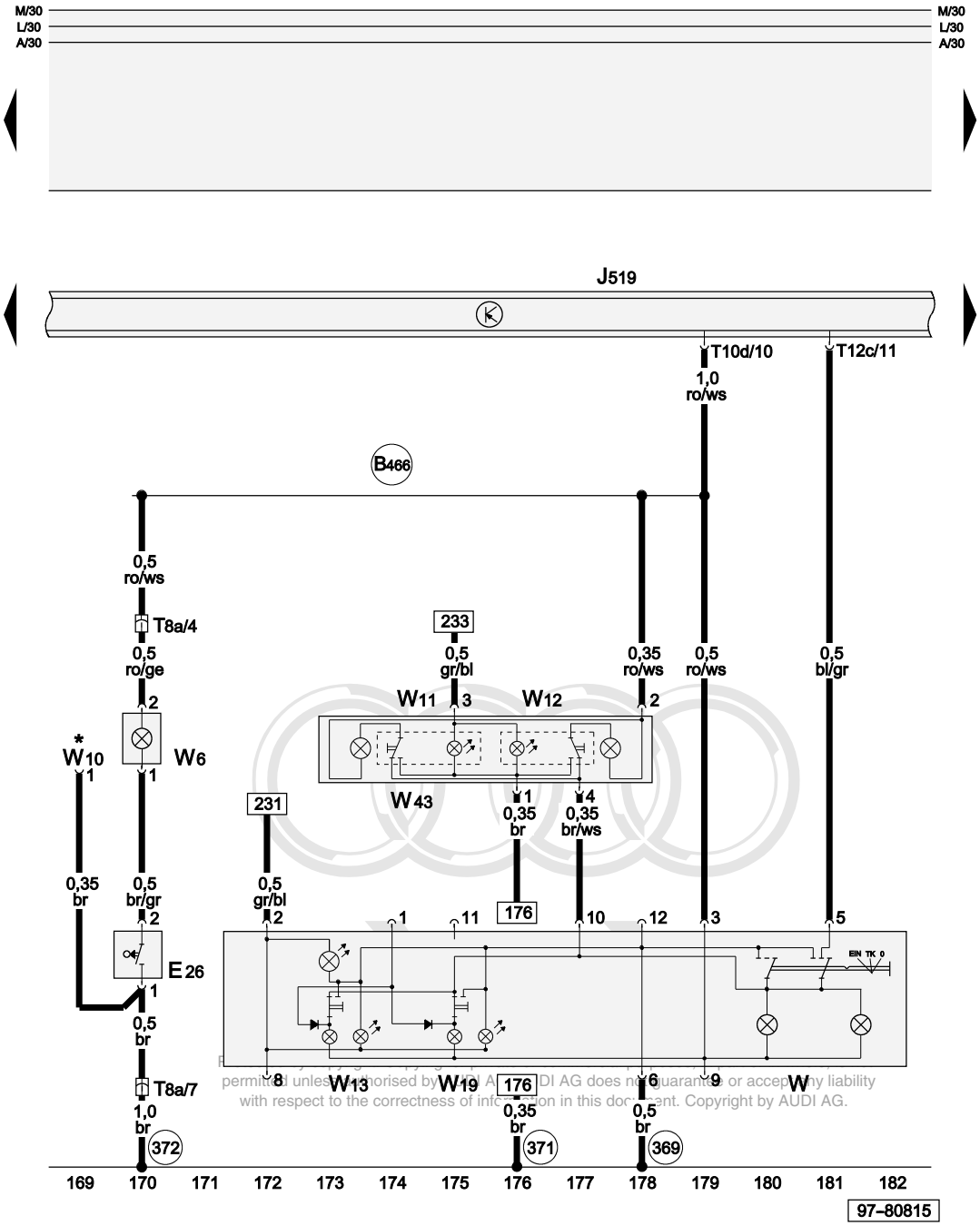


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Rear lid contact switch, number plate light

E234	Rear lid handle release button
F123	Rear lid contact switch for anti-theft alarm system
J393	Convenience system central control unit
J519	Onboard supply control unit
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
T18	18-pin connector, brown (connector A)
V53	Rear lid central locking motor
V155	Tank filler flap locking motor
X	Number plate light
98	Earth connection, in rear lid wiring harness
*	for models with US equipment only
**	for models with 3-door models only
***	for models with 5-door models only

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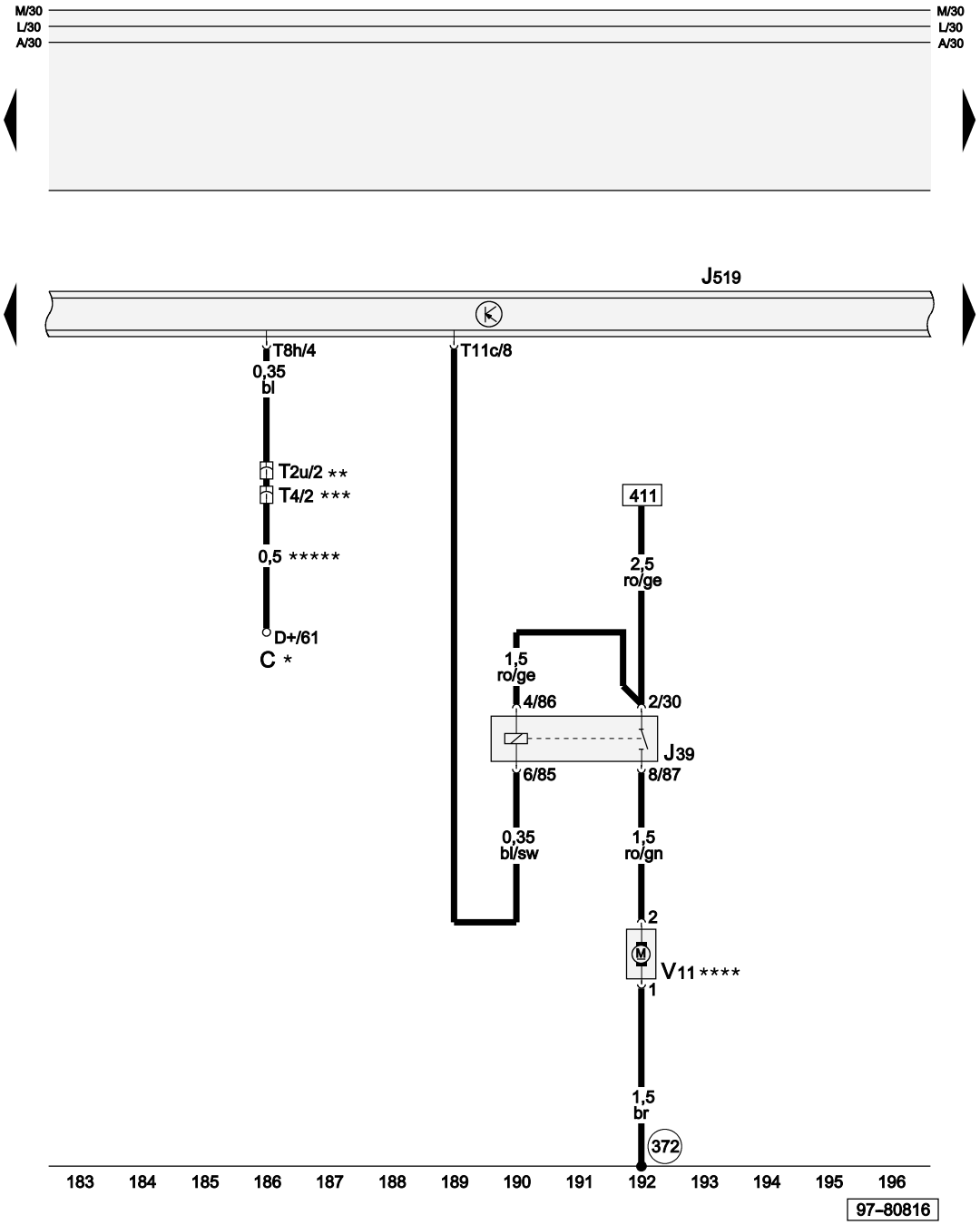


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Front and rear interior light, glove compartment light

E26	Glove compartment light switch
J519	Onboard supply control unit
T8a	8-connector, black, near glove compartment
T10d	10-pin connector, black (connector K)
T12c	12-pin connector, black (connector B)
W	Front interior light
W6	Glove compartment light
W10	Right footwell light
W11	Rear left reading light
W12	Rear right reading light
W13	Front passenger side reading light
W19	Driver side reading light
W43	Rear interior light
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
372	Earth connection 7, in main wiring harness
B466	Connection 2 in main wiring harness
*	⇒ applicable Current Flow Diagram: convenience system

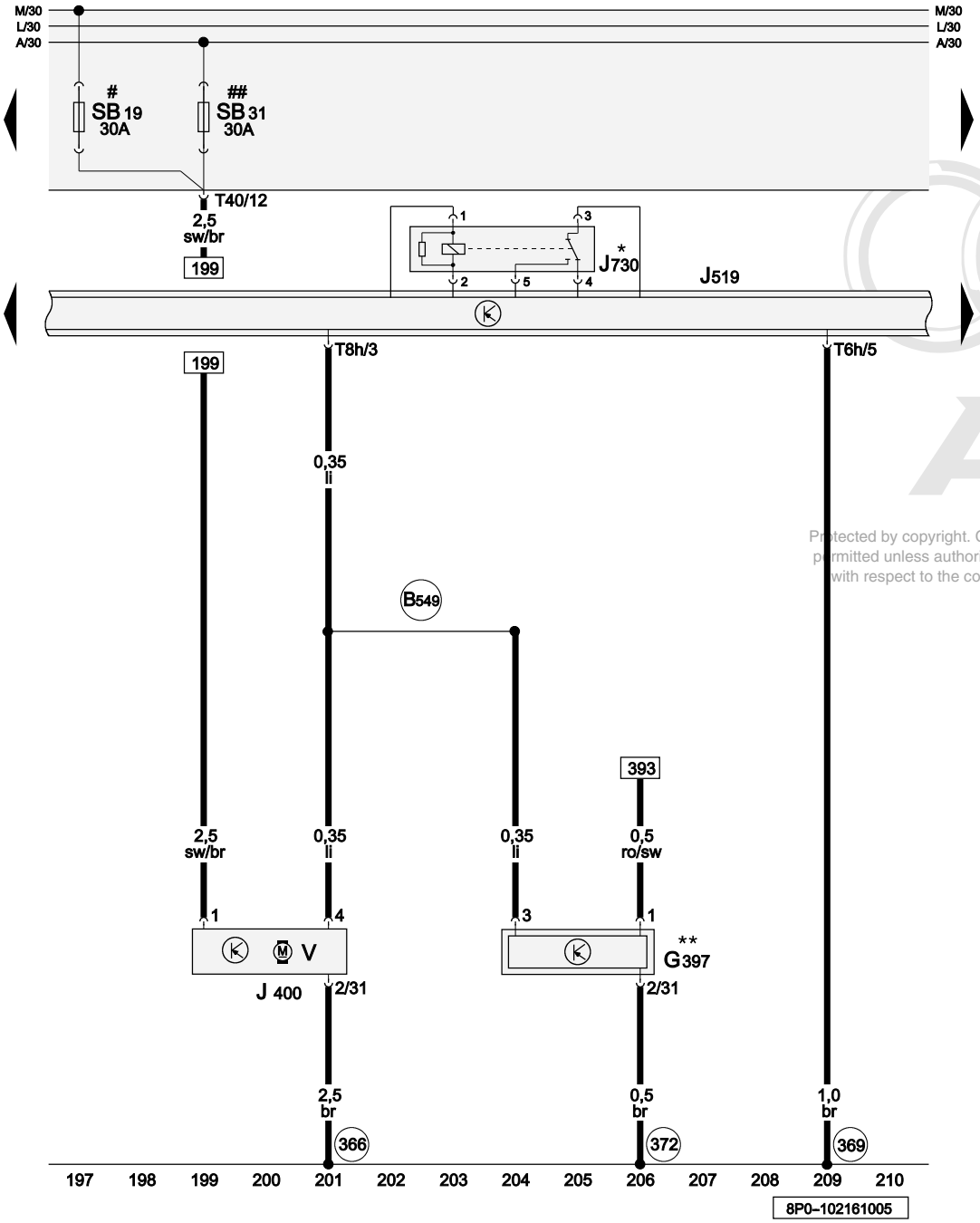


Headlight washer system relay, headlight washer system pump

C	Alternator
J39	Headlight washer system relay
J519	Onboard supply control unit
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
V11	Headlight washer system pump
372	Earth connection 7, in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in luggage compartment or engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
****	for models with headlight washer system only
*****	⇒ applicable engine Current Flow Diagram

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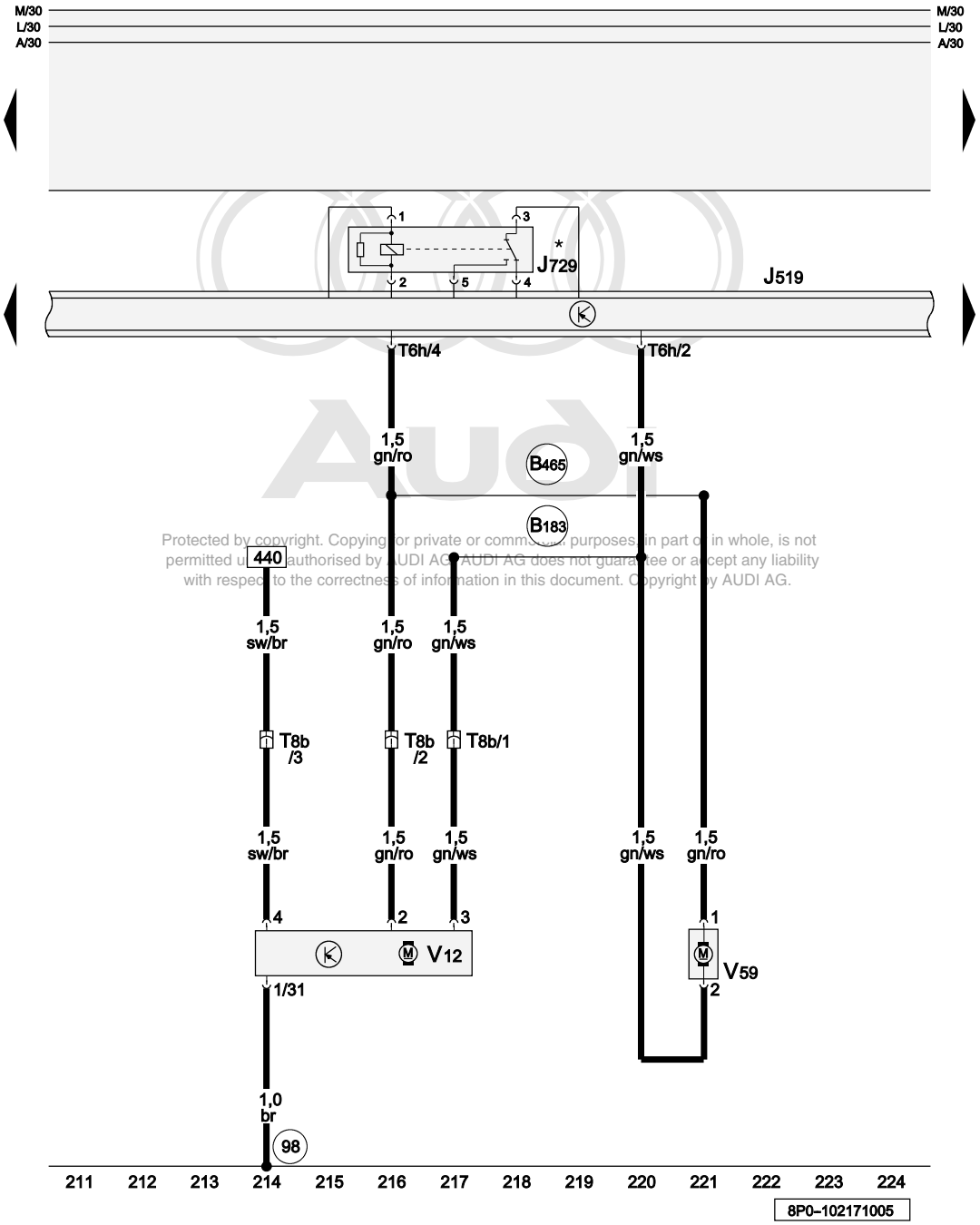


Double washer pump relay 2, windscreen wiper motor, rain and light detector sensor

G397	Rain and light detector sensor
J400	Wiper motor control unit
J519	Onboard supply control unit
J730	Double washer pump relay 2
SB19	Fuse 19 on fuse holder B
SB31	Fuse 31 on fuse holder B
T6h	6-pin connector, black (connector J)
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V	Windscreen wiper motor
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B549	Connection 2 (LIN bus), in main wiring harness
*	Washer pump relay, front
**	for models with automatic headlight switching only
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

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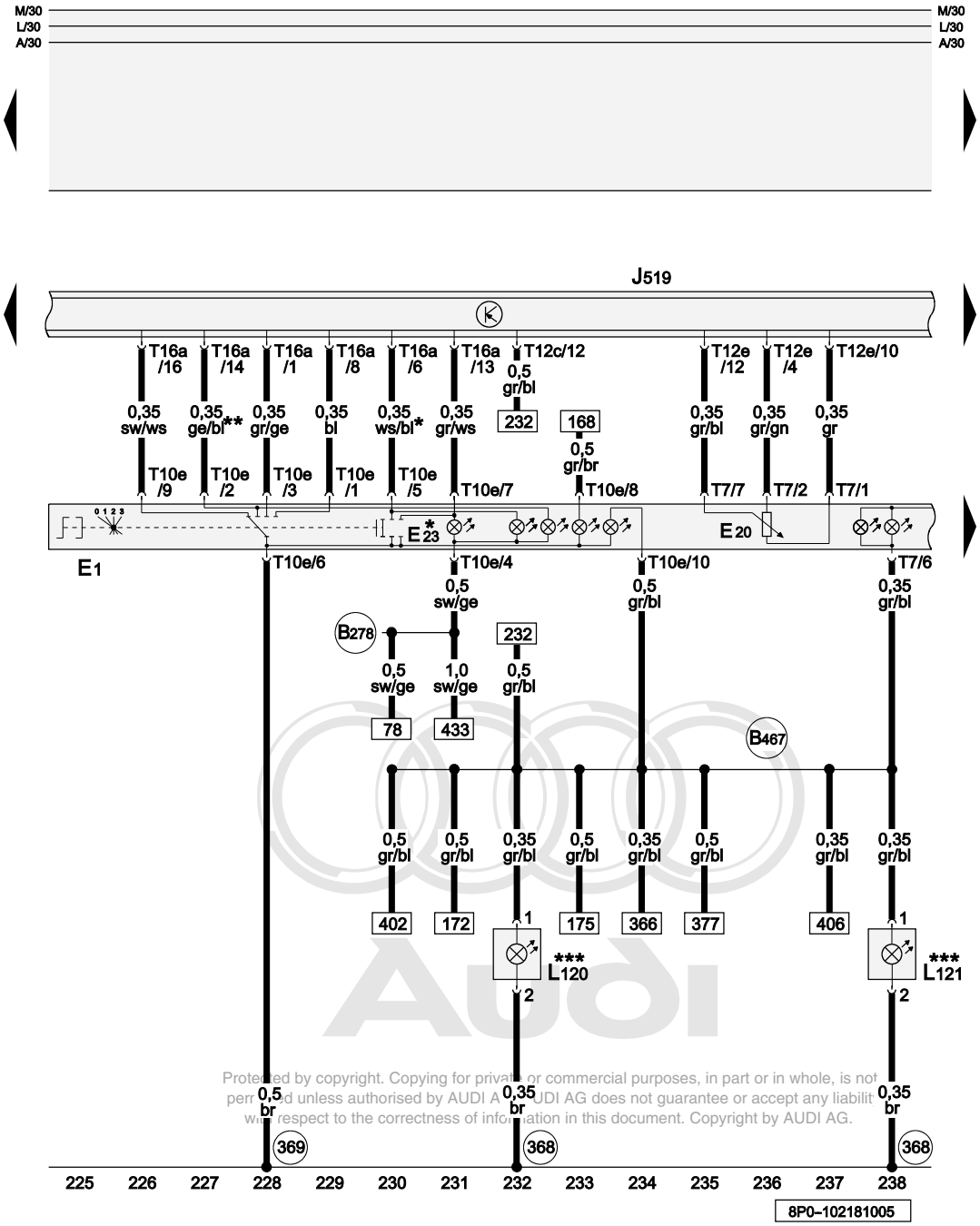


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Rear window wiper motor, double washer pump relay 1

J519	Onboard supply control unit
J729	Double washer pump relay 1
T6h	6-pin connector, black (connector J)
T8b	8-pin connector, brown, on left C-pillar
V59	Windscreen and rear window washer pump
V12	Rear window wiper motor
98	Earth connection, in rear lid wiring harness
B183	Connection 1 (washer pump), in interior wiring harness
B465	Connection 1 in main wiring harness
*	Rear window washer pump relay

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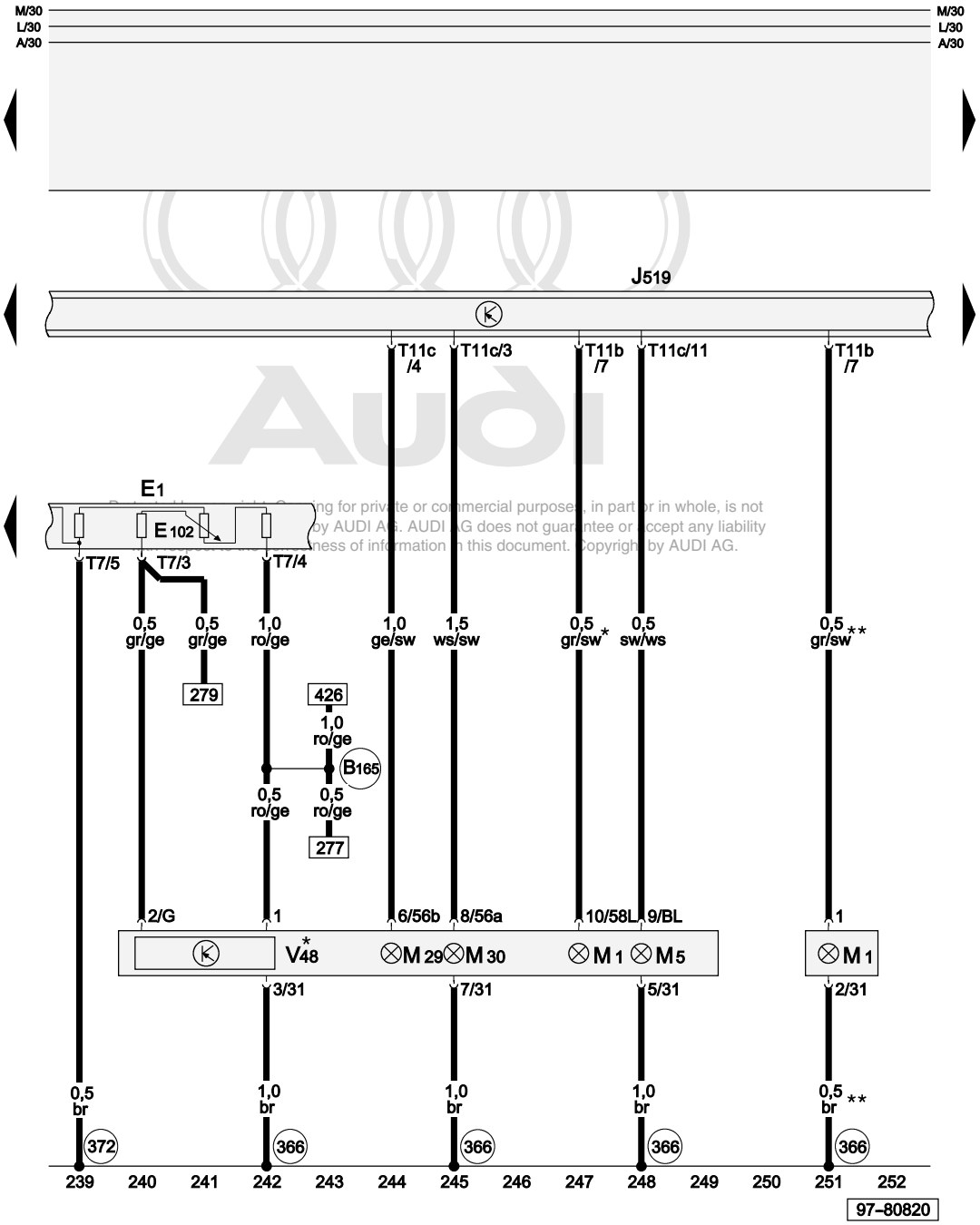
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Light switch, switches and instruments illumination regulator, front and rear fog light switch

E1	Light switch
E20	Switches and instruments illumination regulator
E23	Front and rear fog light switch
J519	Onboard supply control unit
L120	Storage compartment illumination bulb
L121	Cup holder illumination bulb
T7	7-pin connector, black (connector B)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T12e	12-pin connector, black (connector G)
T16a	16-pin connector, black (connector E)
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B467	Connection 3 in main wiring harness

* for models with front fog light only
** for models with automatic headlight switching only
*** for models with shelf illumination and cup holder illumination only

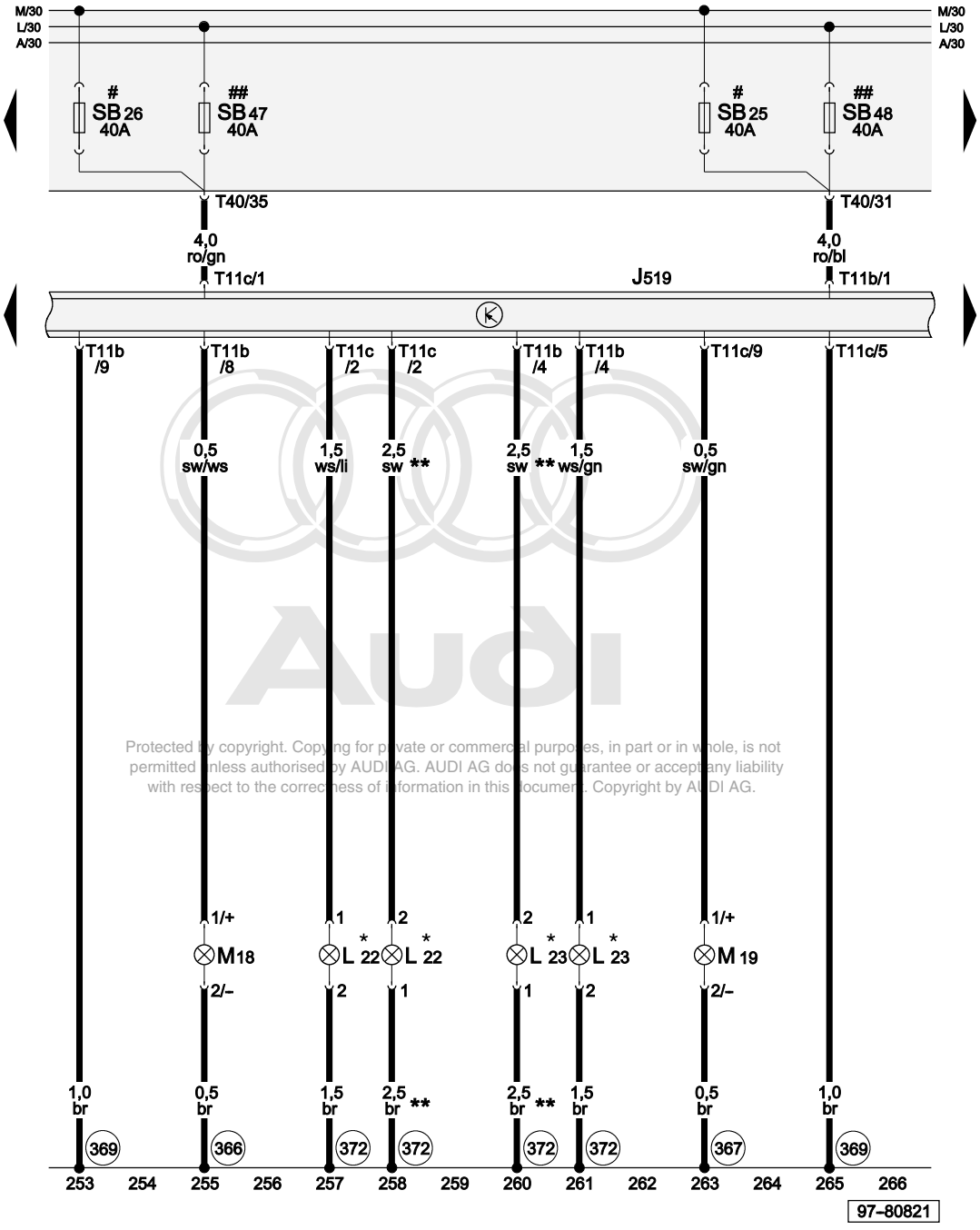


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Headlight range control regulator, left headlight bulbs

E1	Light switch
E102	Headlight range control regulator
J519	Onboard supply control unit
M1	Left side light bulb
M5	Front left turn signal bulb
M29	Left dipped beam bulb
M30	Left main beam bulb
T7	7-pin connector, black (connector B)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
V48	Left headlight range control motor
366	Earth connection 1, in main wiring harness
372	Earth connection 7, in main wiring harness
B165	Positive connection 2 (15), in interior wiring harness
*	for models with headlight range control motor only
**	Not for models with headlight range control motor

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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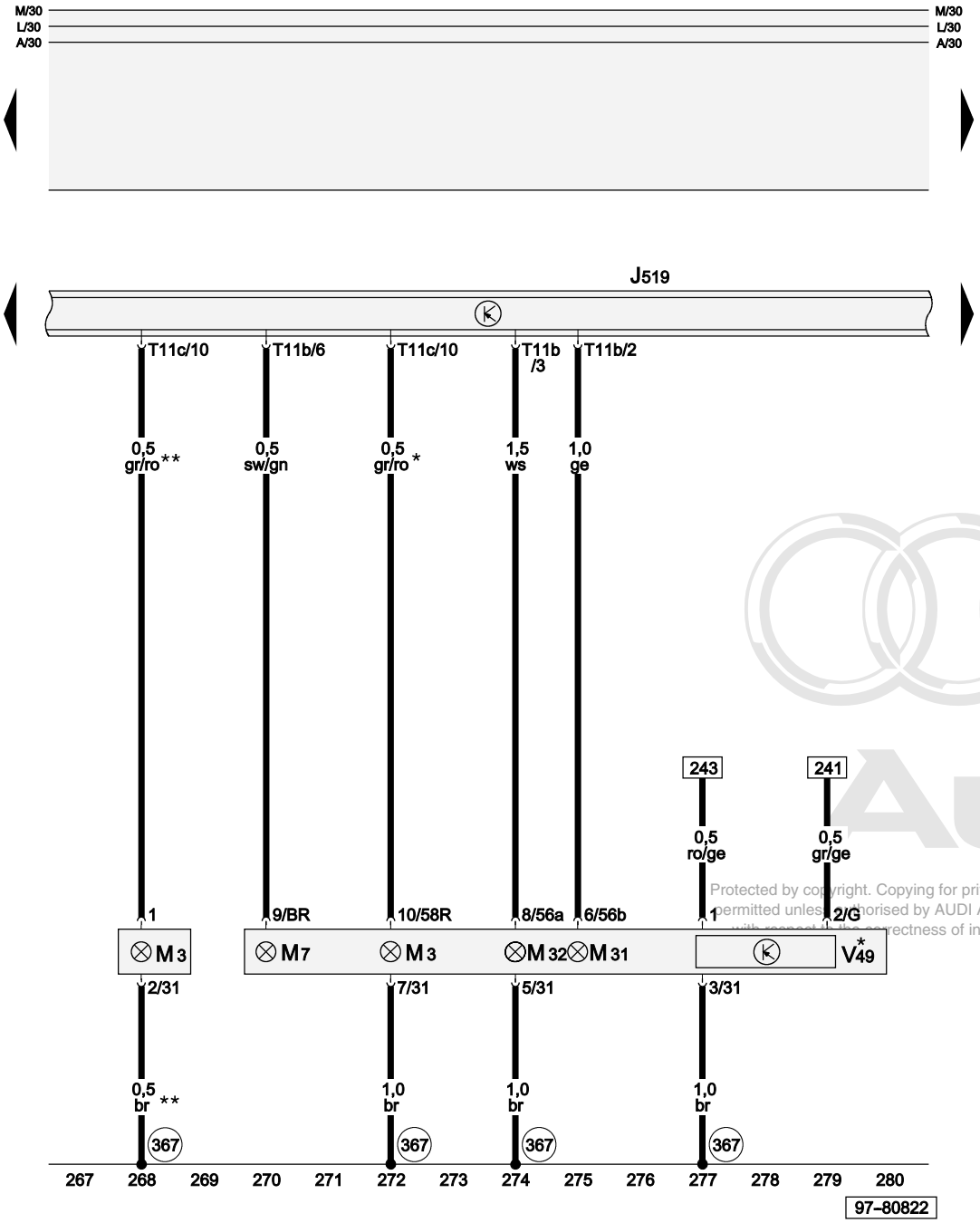


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Fog light, side repeater turn signals

J519	Onboard supply control unit
L22	Left fog light bulb
L23	Right fog light bulb
M18	Left side mounted turn signal bulb
M19	Right side mounted turn signal bulb
SB25	Fuse 25 on fuse holder B
SB26	Fuse 26 on fuse holder B
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
*	for models with front fog light only
**	for models with S line equipment only
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

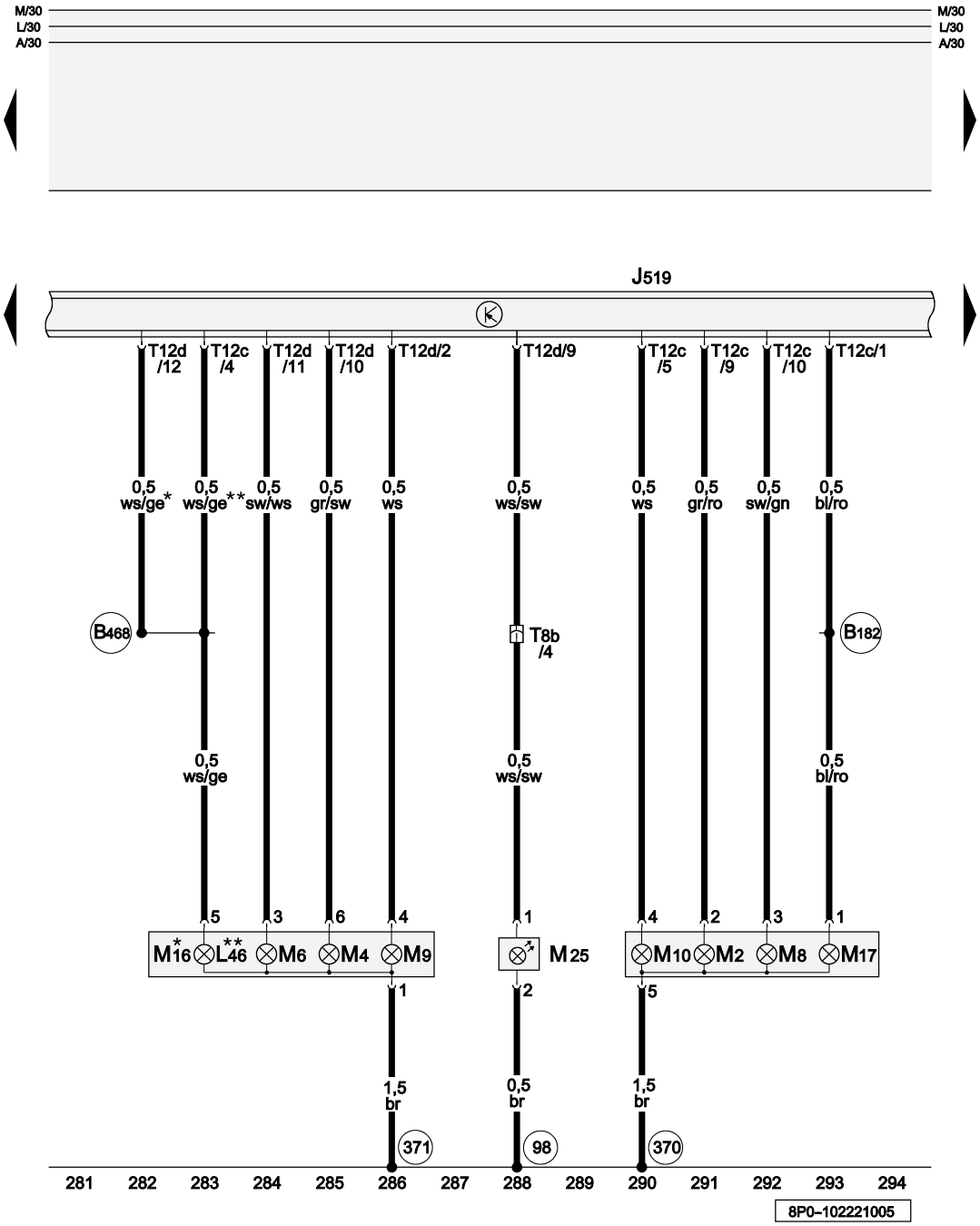


Right headlight bulbs, right fog light

J519	Onboard supply control unit
M3	Right side light bulb
M7	Front right turn signal bulb
M31	Right dipped beam bulb
M32	Right main beam bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
V49	Right headlight range control motor
367	Earth connection 2, in main wiring harness
*	for models with headlight range control motor only
**	Not for models with headlight range control motor

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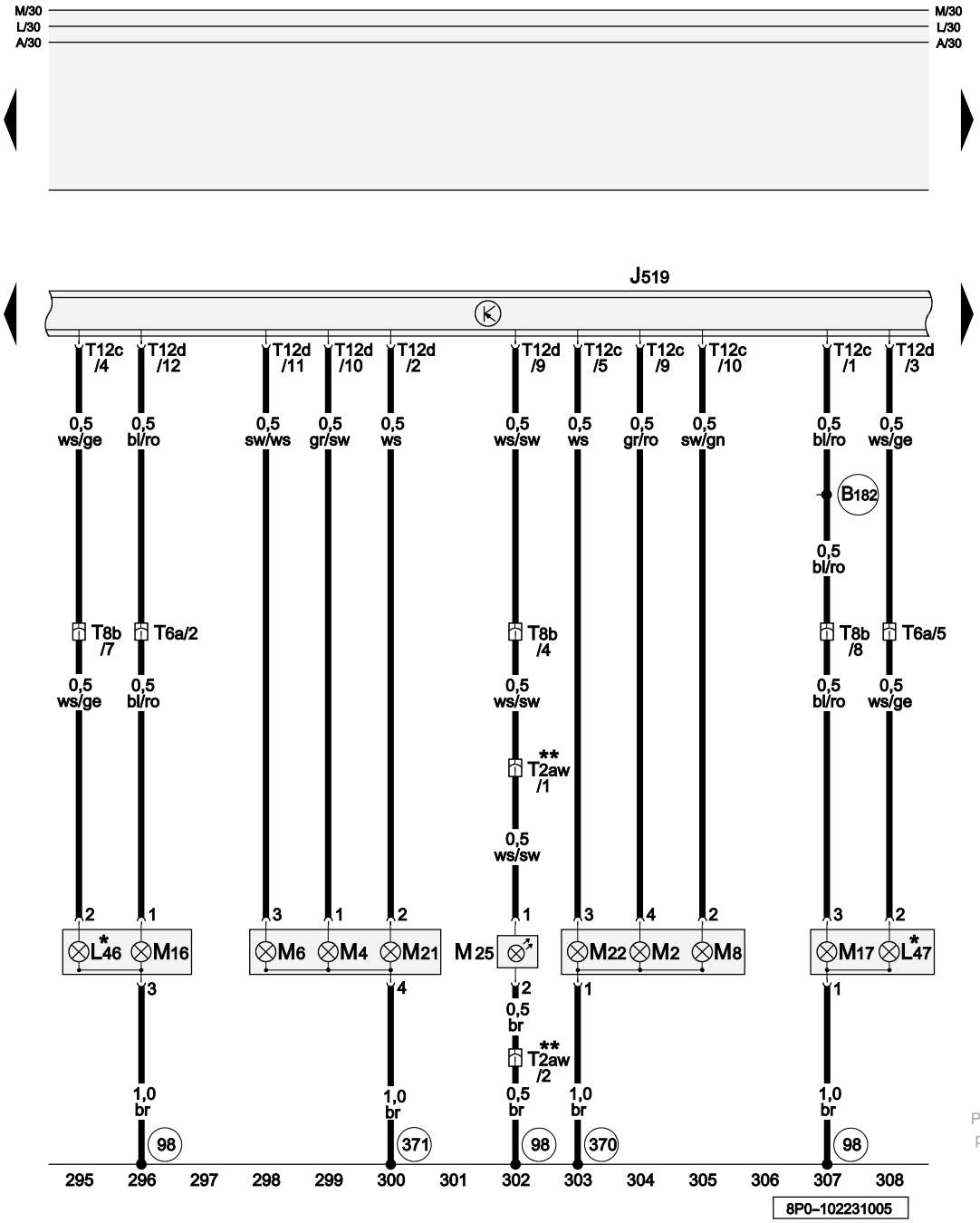
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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

3-door models rear lid, tail light bulbs, turn signal, brake light, reversing light

J519	Onboard supply control unit
L46	Rear left fog light bulb
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M9	Left brake light bulb
M10	Right brake light bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M25	High level brake light bulb
T8b	8-pin connector, brown, on left C-pillar
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)

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98	Earth connection, in rear lid wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B182	Connection (RL), in interior wiring harness
B468	Connection 4 in main wiring harness
*	For Mexico only
**	Not for Mexico

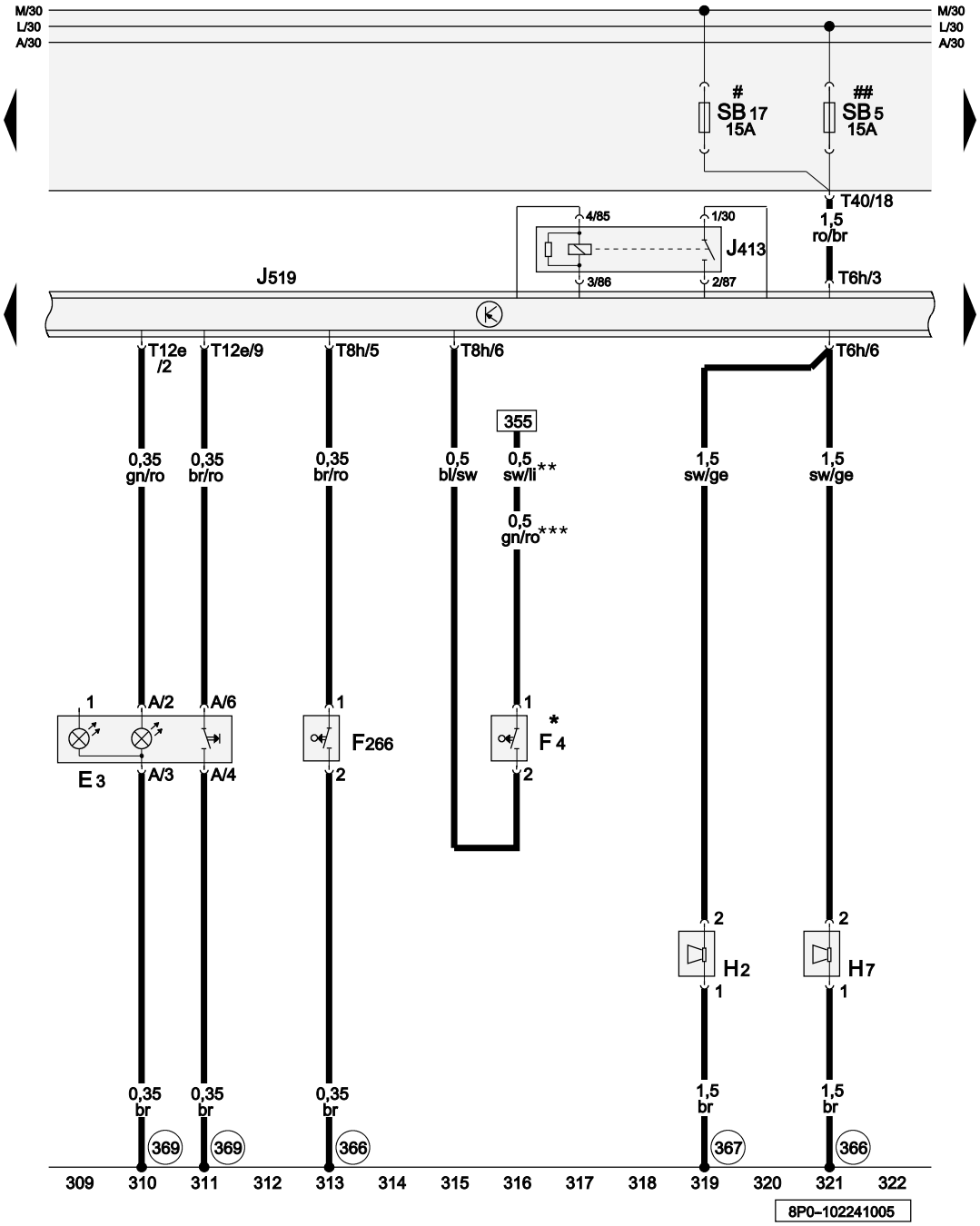


5-door models rear lid, tail light bulbs, turn signal, brake light, reversing light

J519	Onboard supply control unit
L46	Rear left fog light bulb
L47	Rear right fog light bulb
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M21	Left brake and tail light bulb
M22	Right brake and tail light bulb
M25	High level brake light bulb
T2aw	2-pin connector, black, on right in rear lid
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
98	Earth connection, in rear lid wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B182	Connection (RL), in interior wiring harness
*	for models with rear fog lights only
**	for models with S line equipment only

ws	=	white
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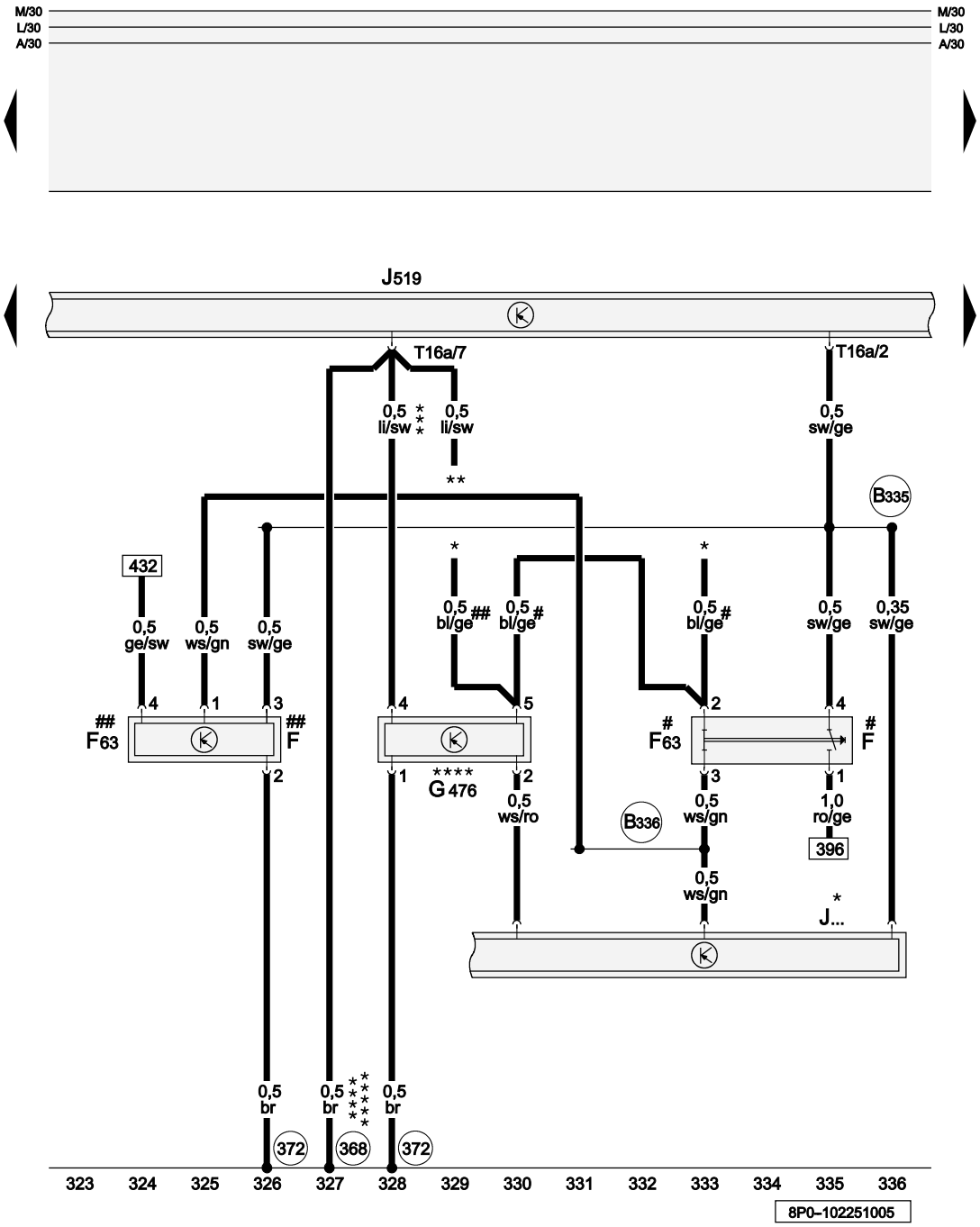


Hazard warning light switch, treble tone horn, bass tone horn, reversing light switch

E3	Hazard warning light switch
F4	Reversing light switch
F266	Bonnet contact switch
H2	Treble tone horn
H7	Bass tone horn
J413	Horn relay
J519	Onboard supply control unit
SB5	Fuse 5 on fuse holder B
SB17	Fuse 17 on fuse holder B
T6h	6-pin connector, black (connector J)
T8h	8-pin connector, black (connector F)
T12e	12-pin connector, black (connector G)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
*	for models with manual gearbox only
**	phased-in modification
***	No longer fitted, phased-in modification
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

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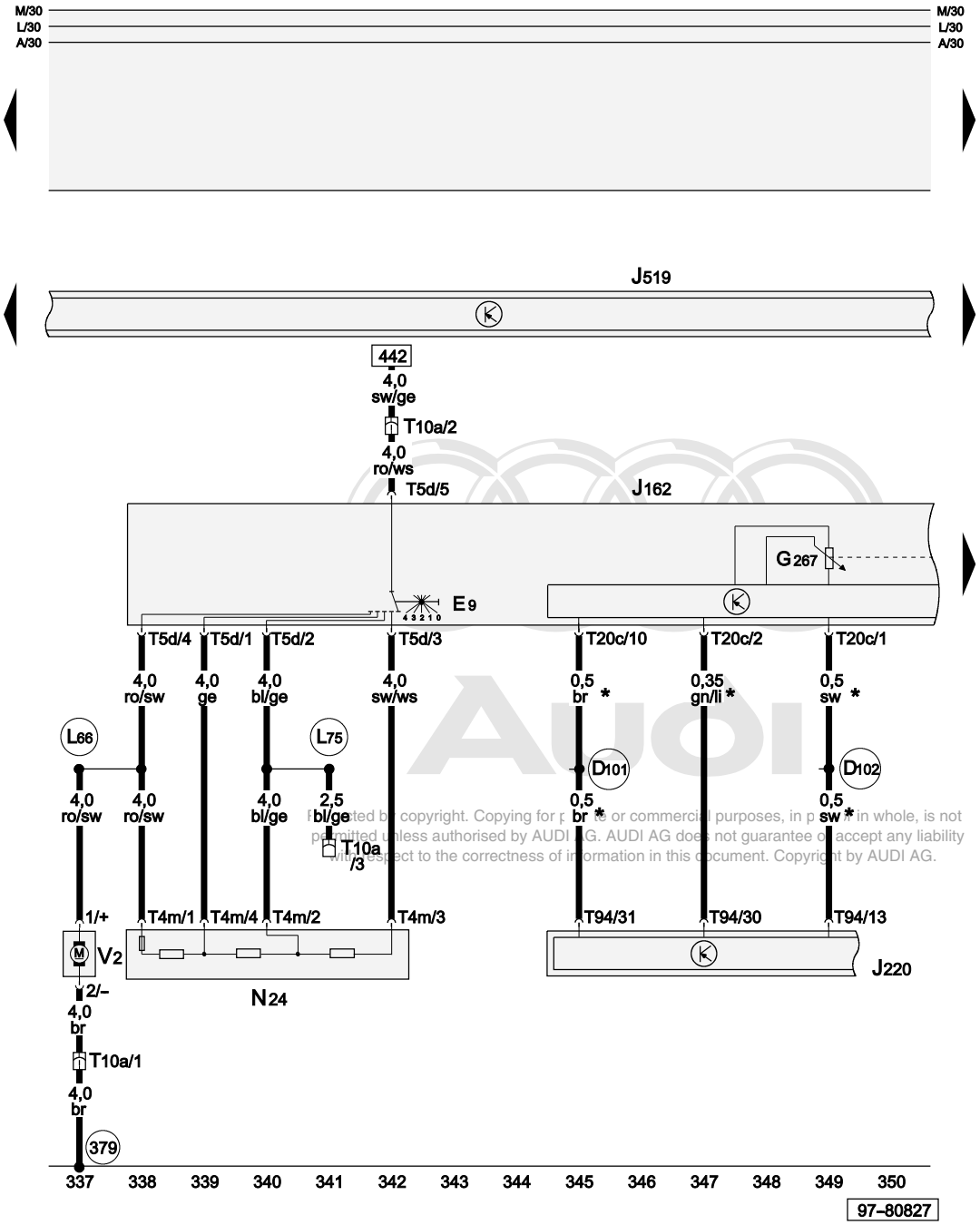
Brake light switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J...	Engine control units
J519	Onboard supply control unit
T16a	16-pin connector, black (connector E)
368	Earth connection 3, in main wiring harness
372	Earth connection 7, in main wiring harness
B335	Connection 1 (54), in main wiring harness
B336	Connection 2 (54), in main wiring harness

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*	⇒ applicable engine Current Flow Diagram
**	⇒ applicable Current Flow Diagram: automatic gearbox
***	for models with US equipment only
****	for models with manual gearbox only
*****	not for models with US equipment
#	is dropped from November 2005
##	applicable from November 2005

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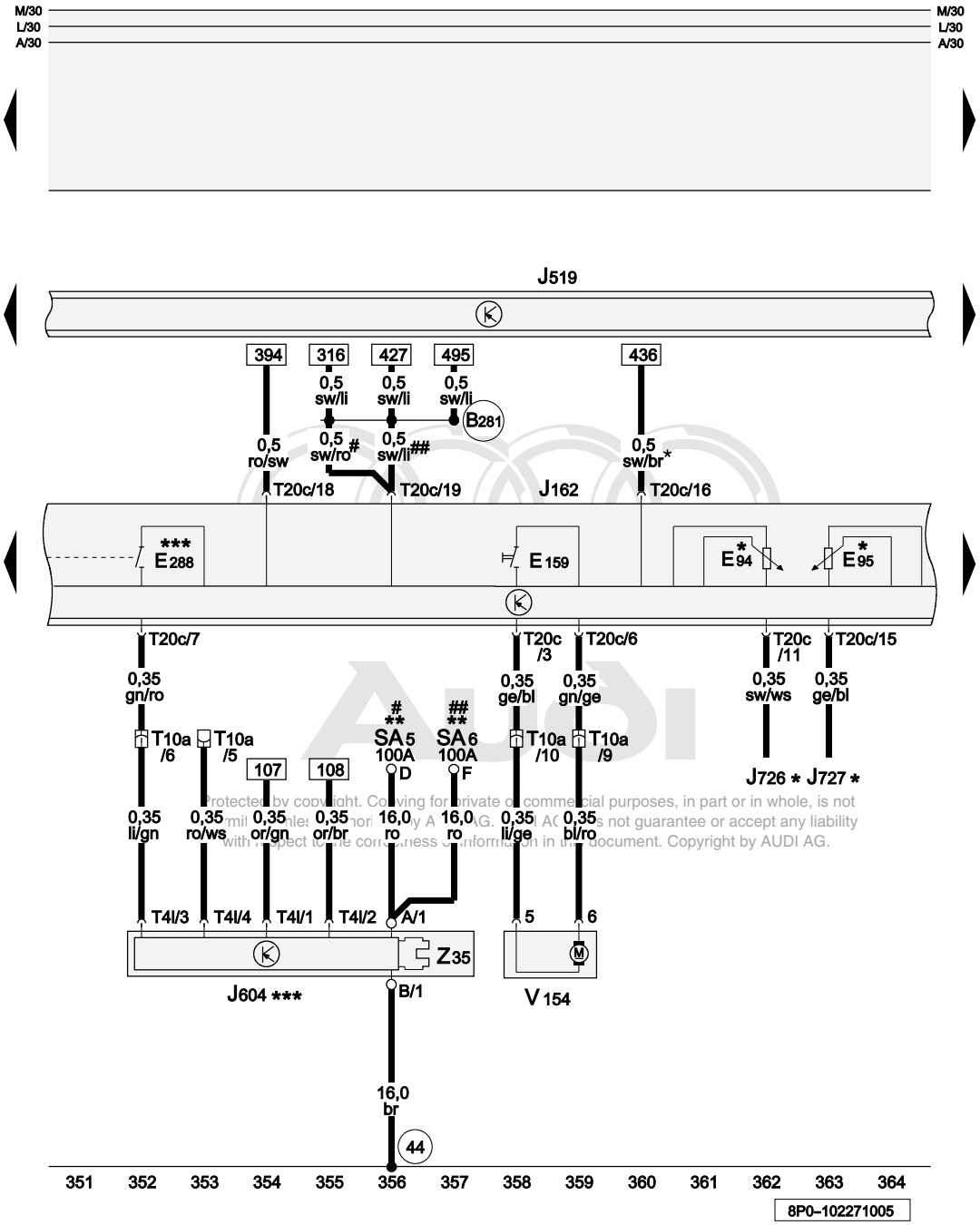


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Fresh air blower switch, potentiometer, temperature selection rotary knob

E9	Fresh air blower switch
G267	Potentiometer for temperature selection rotary knob
J162	Heater control unit
J220	Motronic control unit
J519	Onboard supply control unit
N24	Fresh air blower series resistor with overheating fuse
T4m	4-pin connector, black (connector A)
T5d	5-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T20c	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V2	Fresh air blower
379	Earth connection 14, in main wiring harness
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness
L66	Connection, in heater blower wiring harness
L75	Connection 2, in heater blower wiring harness
*	only for models with FSI - fuel injection engines, is dropped, from November 2005

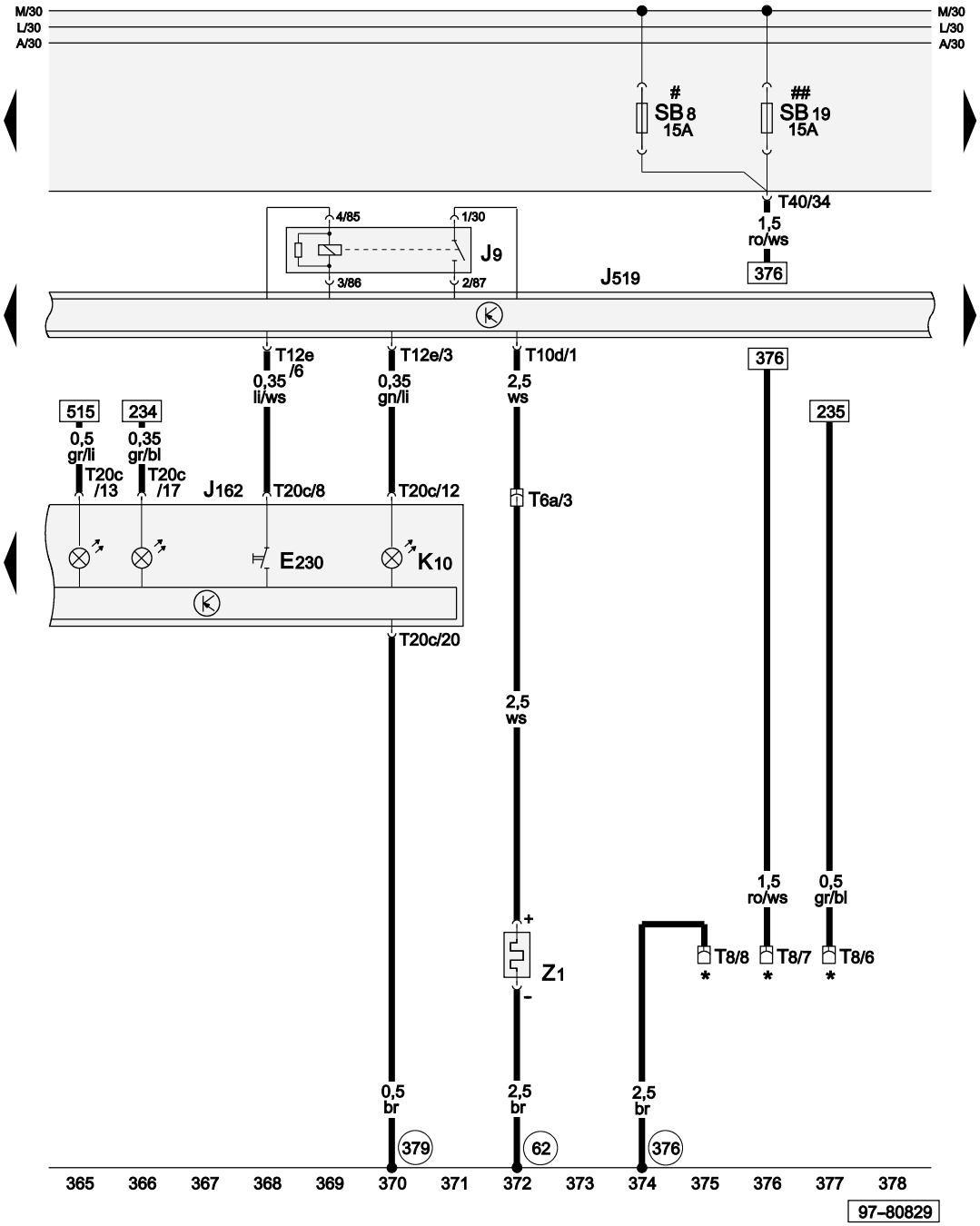


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Heated driver seat regulator, heated front passenger seat regulator

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
E159	Fresh air/air recirculation flap switch
E288	Auxiliary heater economy ECON button
J162	Heater control unit
J519	Onboard supply control unit
J604	Auxiliary air heater control unit
J726	Driver seat heating control unit
J727	Front passenger seat heating control unit
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
T4l	4-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T20c	20-pin connector, black (connector A)
V154	Fresh air/recirculated air flap control motor
Z35	Auxiliary heater element
44	Earth point, lower part of left A-pillar
B281	Positive connection 5 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram: seat heating
**	⇒ applicable Current Flow Diagram with battery in engine compartment
***	for models with auxiliary air heater only
#	is dropped from November 2005
##	applicable from November 2005

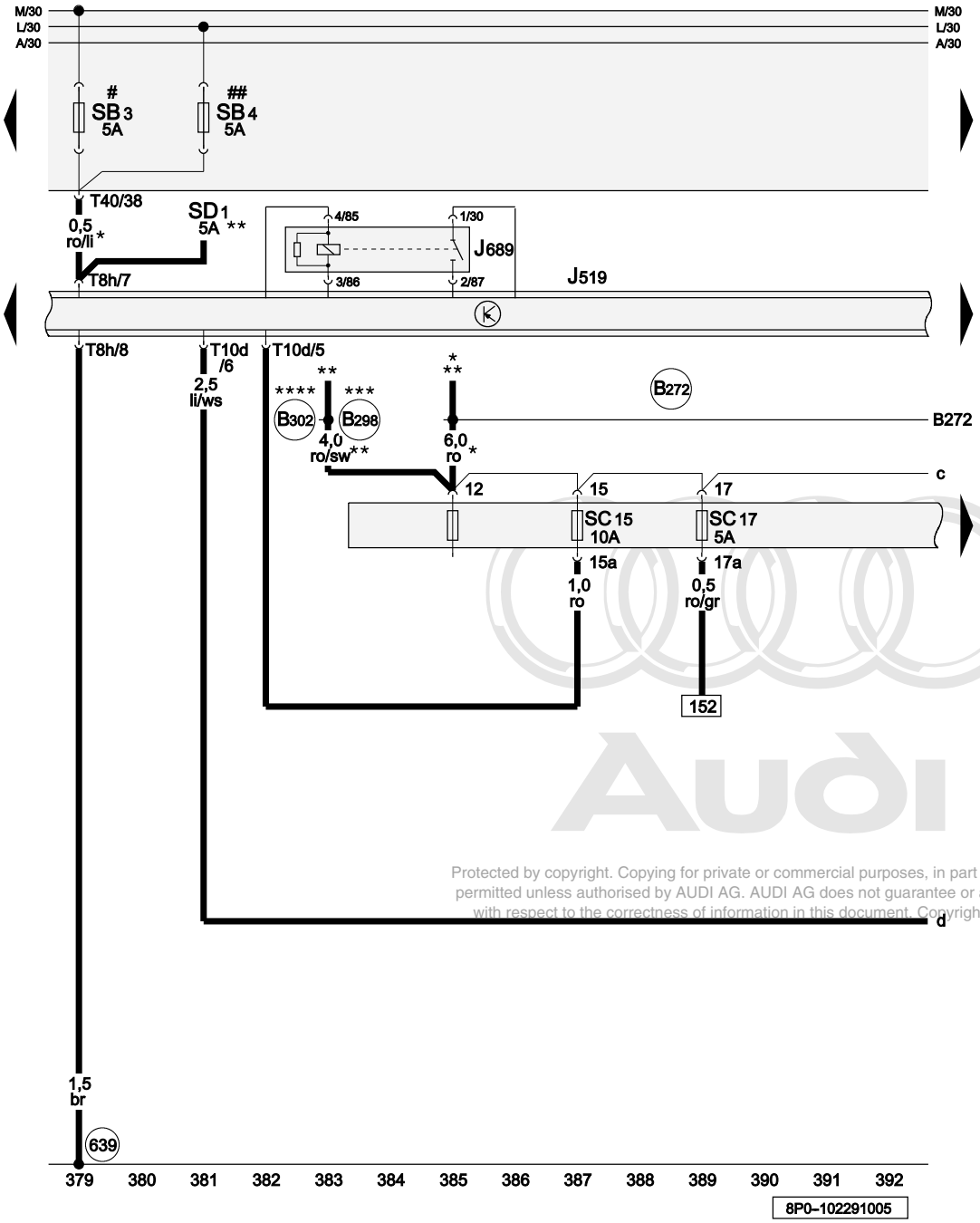


Heated rear window button, heated rear window relay

E230	Heated rear window button
J9	Heated rear window relay
J162	Heater control unit
J519	Onboard supply control unit
K10	Heated rear window warning lamp
SB8	Fuse 8 on fuse holder B
SB19	Fuse 19 on fuse holder B
T6a	6-pin connector, black, on left C-pillar
T8	8-pin connector, black (connector A)
T10d	10-pin connector, black (connector K)
T12e	12-pin connector, black (connector G)
T20c	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
Z1	Heated rear window
62	Earth point, right C-pillar
376	Earth connection 11, in main wiring harness
379	Earth connection 14, in main wiring harness
*	for models with preparation for radio only
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

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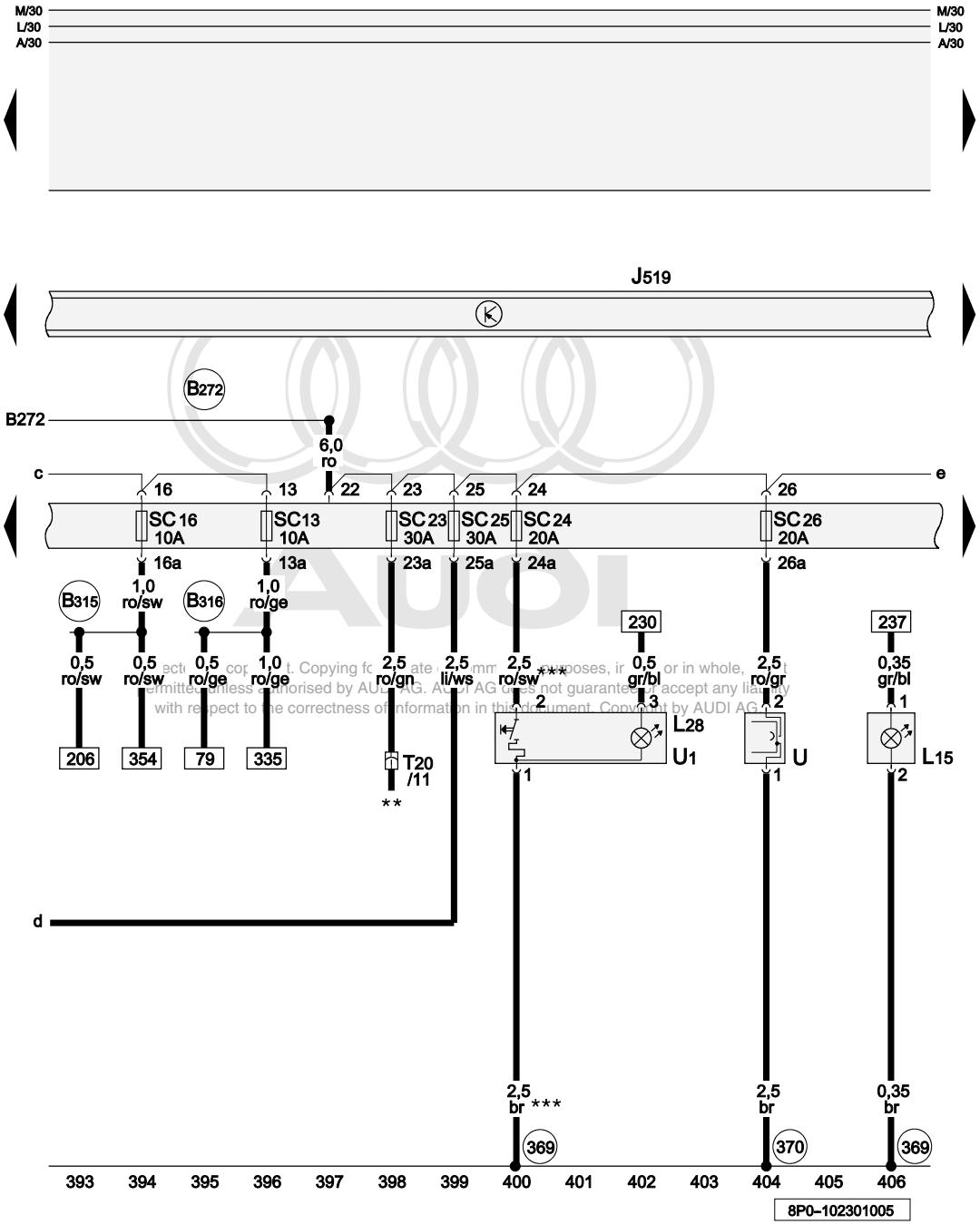


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Terminal 30 voltage supply relay 2, fuses on fuse holder

J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
SB3	Fuse 3 on fuse holder B
SB4	Fuse 4 on fuse holder B
SC15	Fuse 15 on fuse holder C
SC17	Fuse 17 on fuse holder C
SD1	Fuse 1 on fuse holder D
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
639	Earth point, left A-pillar
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B302	Positive connection 6 (30), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
***	is dropped from November 2005
****	applicable from November 2005
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

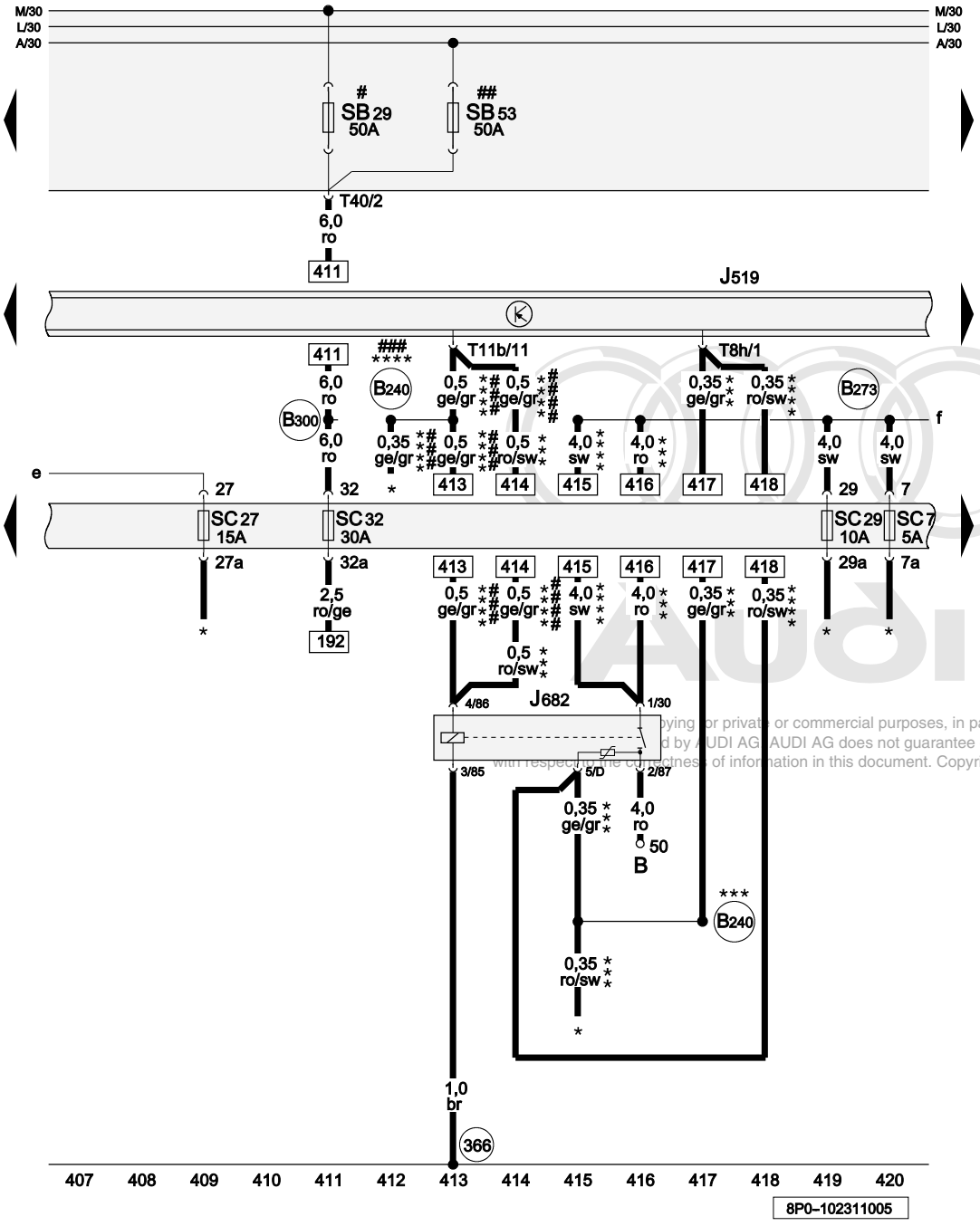


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Ashtray illumination, cigarette lighter illumination, fuses on fuse holder

J519	Onboard supply control unit
L15	Ashtray illumination bulb
L28	Cigarette lighter illumination bulb
SC13	Fuse 13 on fuse holder C
SC16	Fuse 16 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC24	Fuse 24 on fuse holder C
SC25	Fuse 25 on fuse holder C
SC26	Fuse 26 on fuse holder C
T20	20-pin connector, black, door A-pillar left
U	Electric socket
U1	Cigarette lighter
369	Earth connection 4, in main wiring harness
370	Earth connection 5, in main wiring harness
B272	Positive connection (30), in main wiring harness
B315	Positive connection 1 (30a), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
**	⇒ applicable Current Flow Diagram: convenience system
***	cross-section was increased from 1,5 mm² to 2,5 mm², applicable from November 2005

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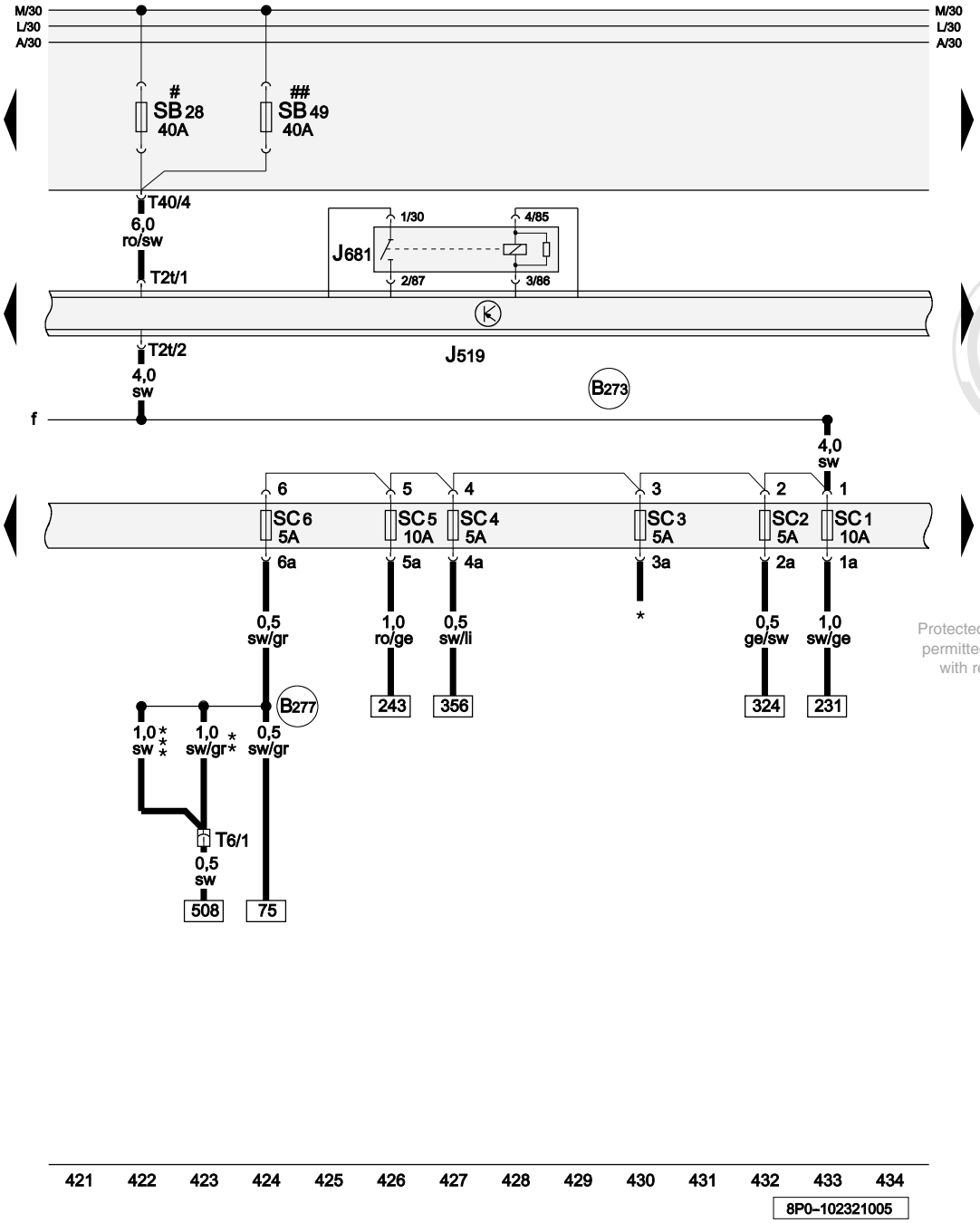


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Fuses on fuse holder

B	Starter
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC7	Fuse 7 on fuse holder C
SC27	Fuse 27 on fuse holder C
SC29	Fuse 29 on fuse holder C
SC32	Fuse 32 on fuse holder C
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
B240	Positive connection 2 (50), in interior wiring harness
B273	Positive connection (15), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
*	⇒ applicable engine Current Flow Diagram
***	is dropped from November 2005
****	applicable from November 2005
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations
###	for models with engine codes BSE, BSF, BLF, BLR, AXX, BLY, BLS, AZV, BKD, BMM, BMN, BUY, BWA, BVY, BVZ, BKC only
####	for models with engine codes BMJ, BUB only

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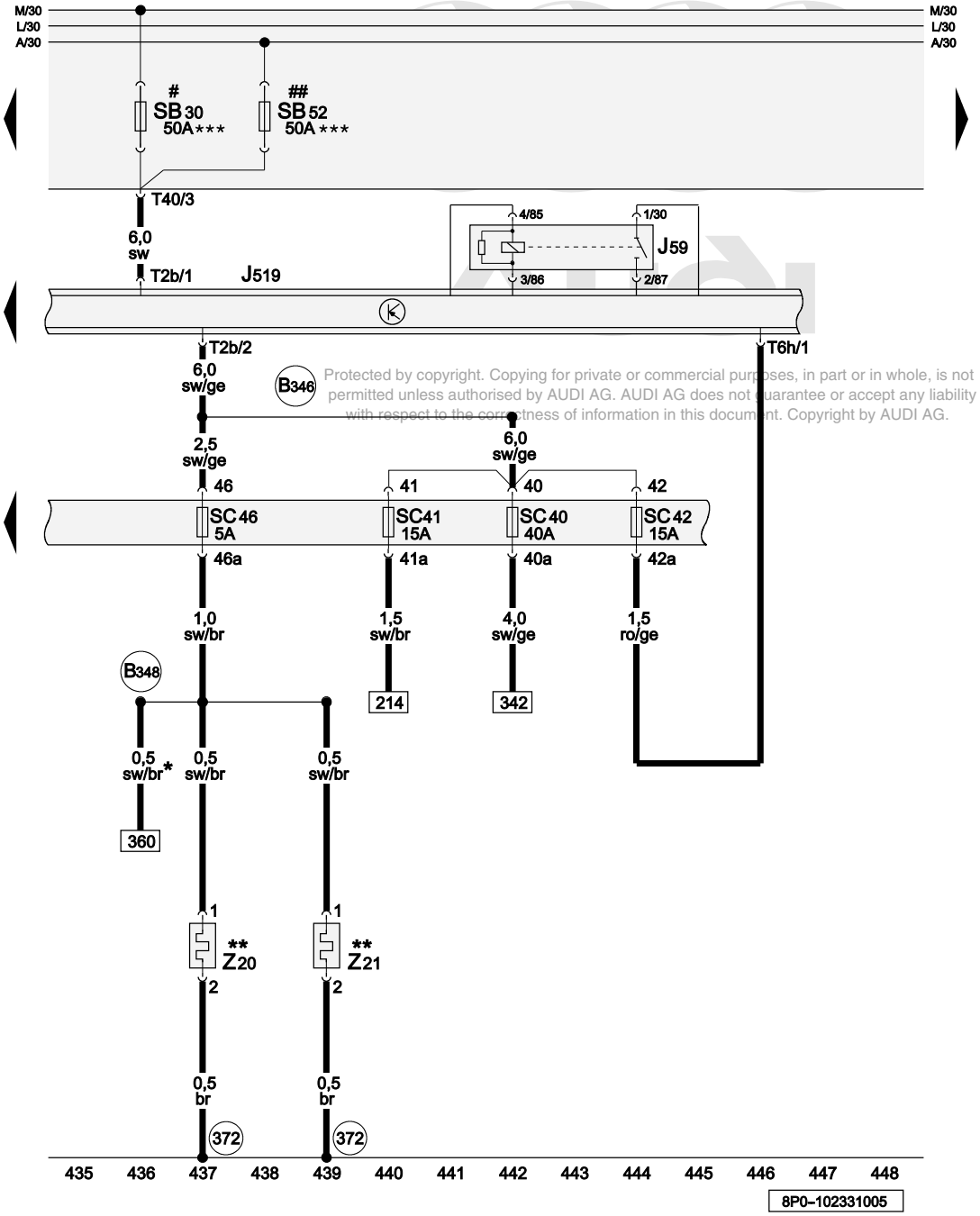


Terminal 15 voltage supply relay 2, fuses on fuse holder

J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC3	Fuse 3 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC5	Fuse 5 on fuse holder C
SC6	Fuse 6 on fuse holder C
T2t	2-pin connector, black (connector L)
T6	6-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram: airbag
**	phased-in modification
***	No longer fitted, phased-in modification
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

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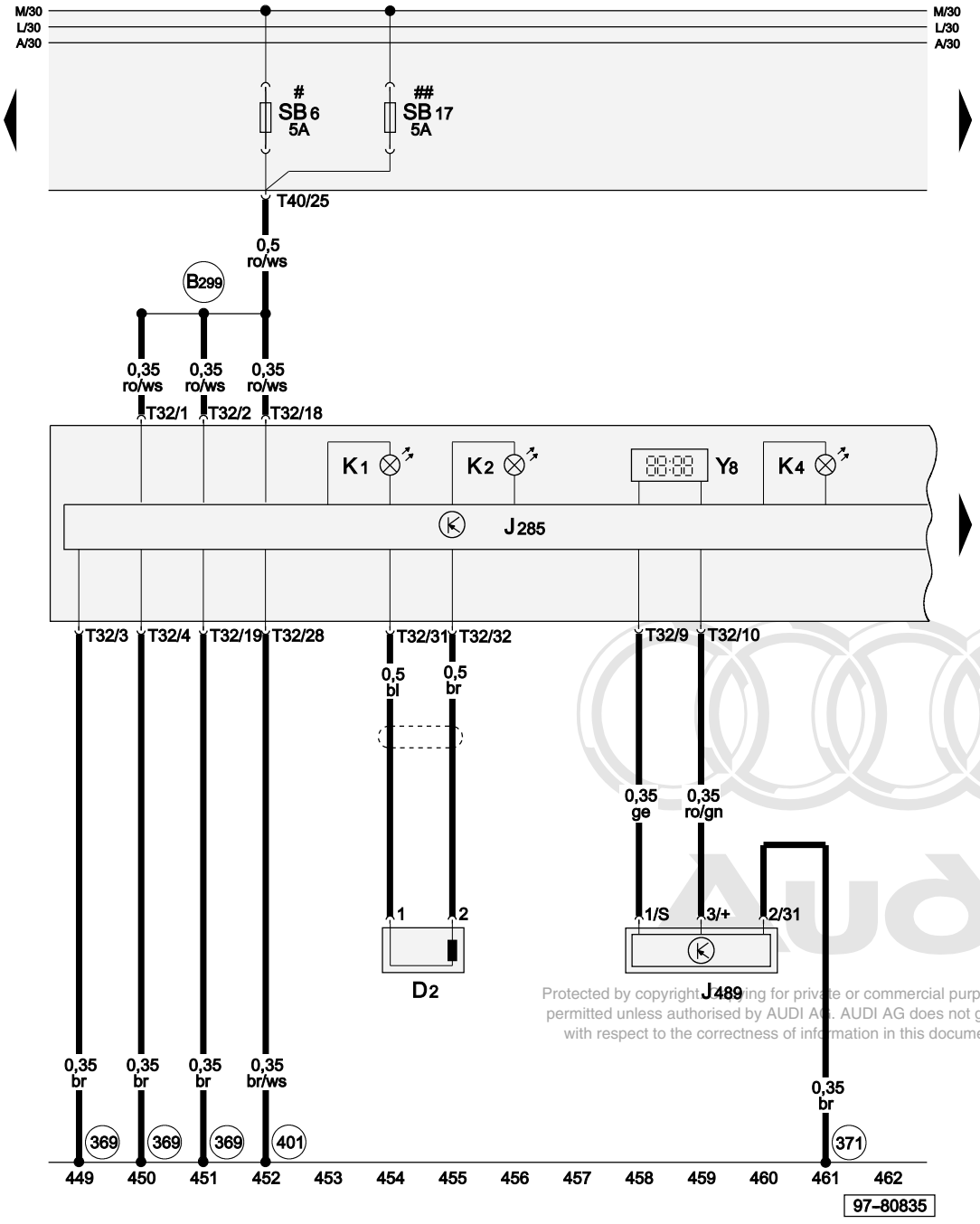


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X-contact relief relay, fuses on fuse holder, left and right washer jet heater element

J59	X-contact relief relay
J519	Onboard supply control unit
SB30	Fuse 30 on fuse holder B
SB52	Fuse 52 on fuse holder B
SC40	Fuse 40 on fuse holder C
SC41	Fuse 41 on fuse holder C
SC42	Fuse 42 on fuse holder C
SC46	Fuse 46 on fuse holder C
T2b	2-pin connector, brown (connector I)
T6h	6-pin connector, black (connector J)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
Z20	Left washer jet heater element
Z21	Right washer jet heater element
(372)	Earth connection 7, in main wiring harness
(B346)	Connection 1 (75), in main wiring harness
(B348)	Connection 1 (75A), in main wiring harness
*	for models with seat heating only
**	for models with washer jets heater element only
***	Fuse was increased from 40 A to 50 A, applicable from November 2005
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

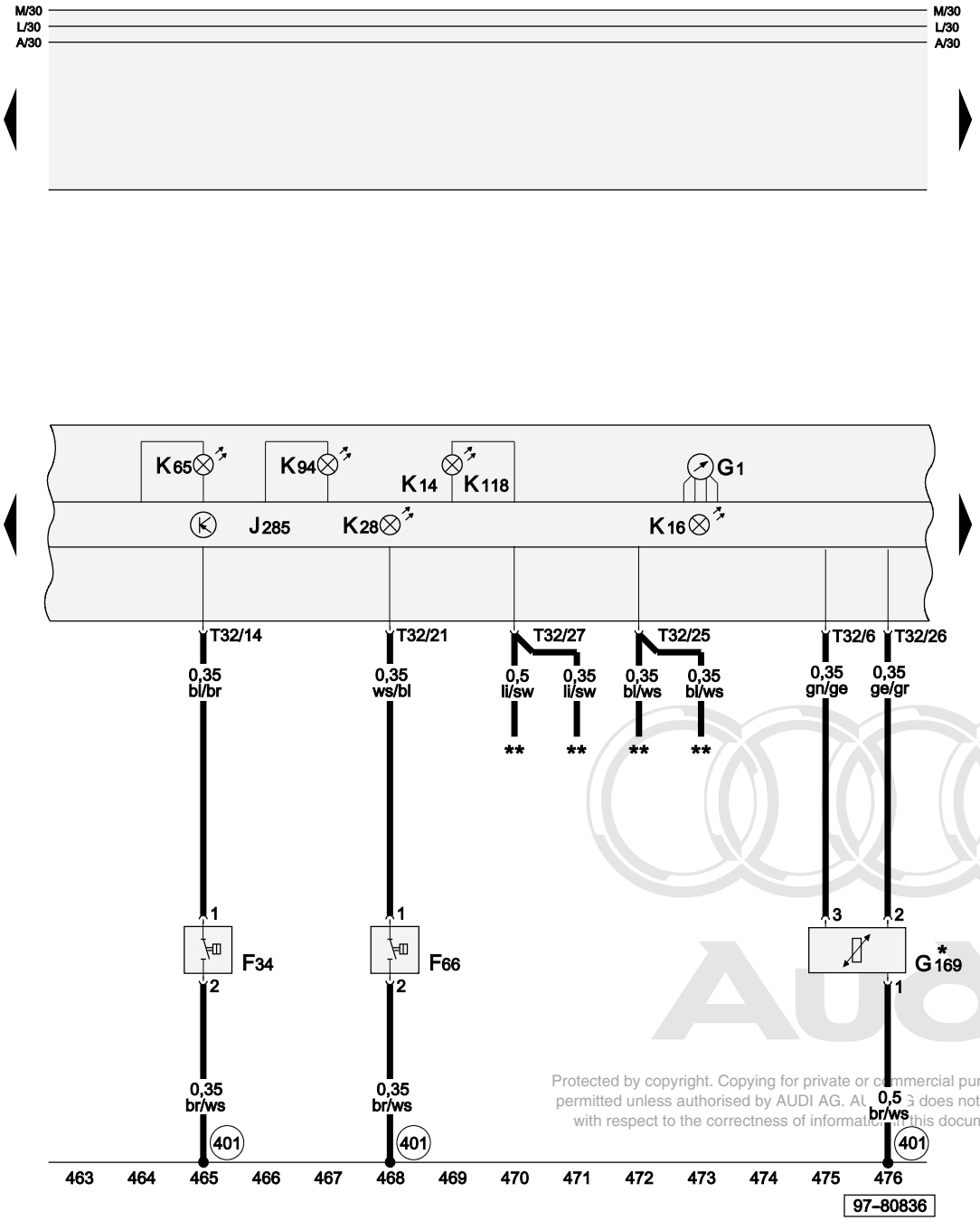


Radio controlled clock receiver, immobilizer reader coil, control unit in dash panel insert

D2	Immobilizer reader coil
J285	Control unit in dash panel insert
J489	Radio controlled clock receiver
K1	Main beam warning lamp
K2	Alternator warning lamp
K4	Side light warning lamp
SB6	Fuse 6 on fuse holder B
SB17	Fuse 17 on fuse holder B
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
Y8	Radio controlled clock
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

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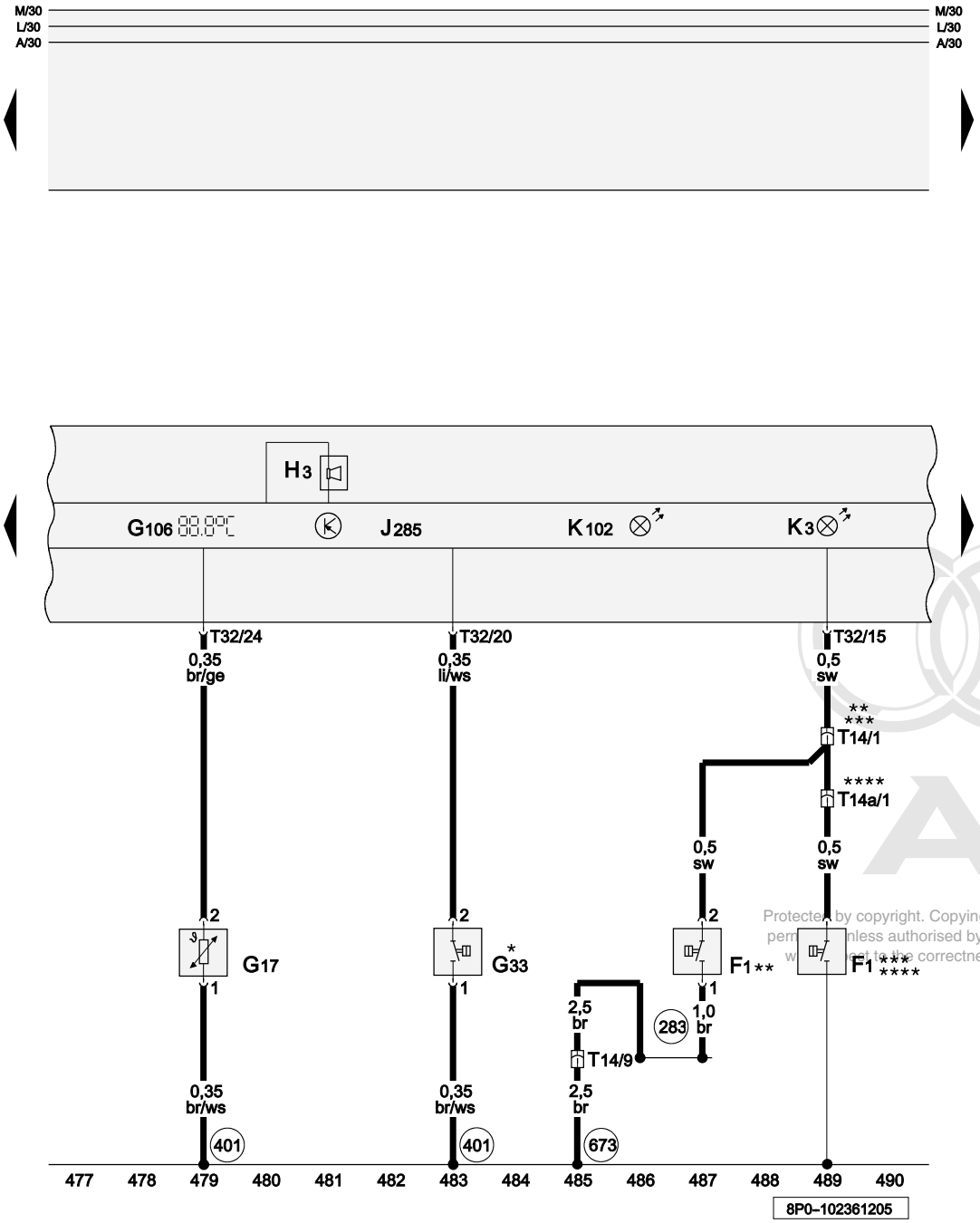


Brake fluid level warning contact, control unit in dash panel insert

F34	Brake fluid level warning contact
F66	Coolant shortage indicator switch
G1	Fuel gauge
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
K14	Handbrake warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
T32	32-pin connector, blue (connector A)
(401)	Earth connection (sender earth), in interior wiring harness
*	for models with four-wheel drive only
**	⇒ applicable engine Current Flow Diagram

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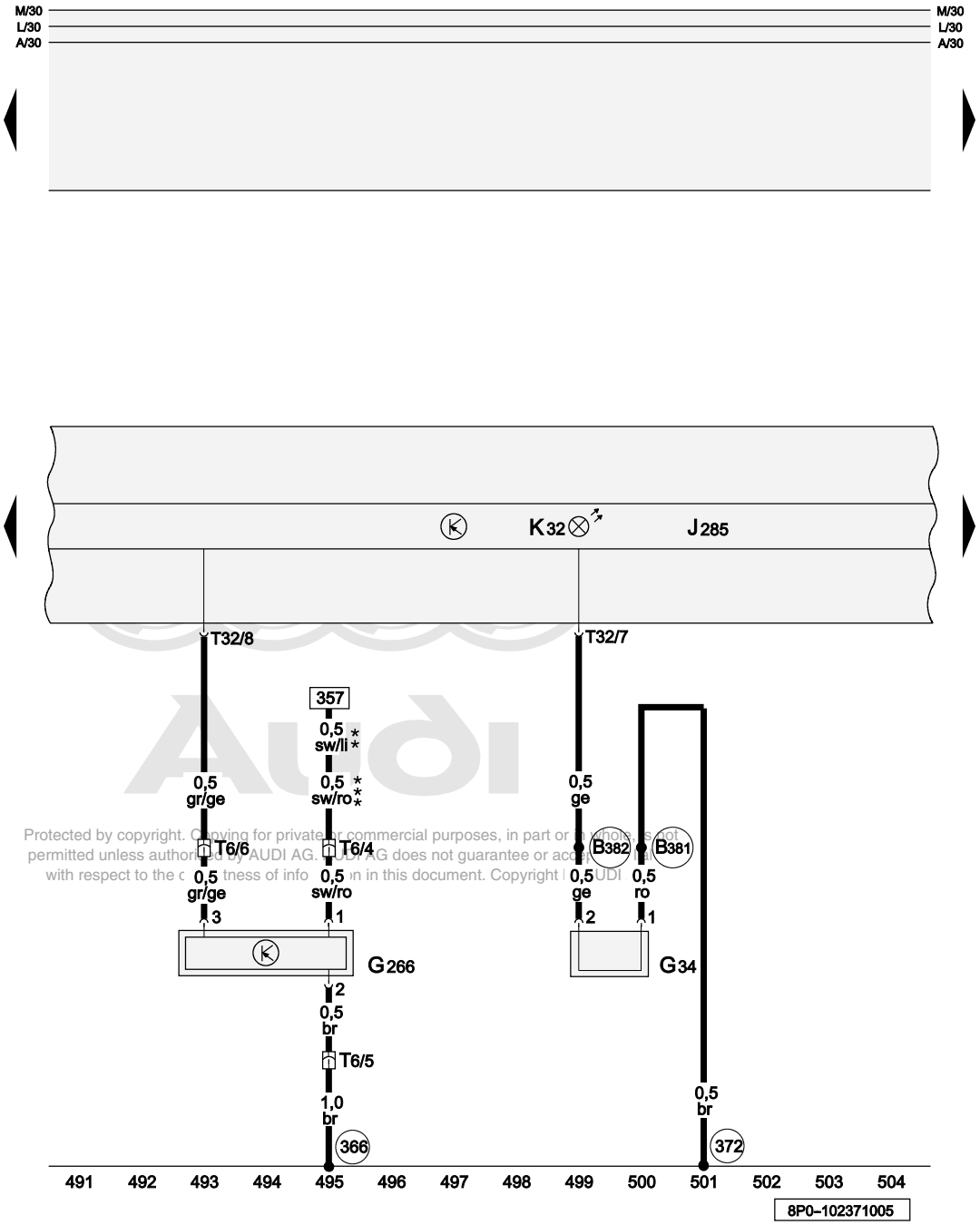


Oil pressure switch, ambient temperature sensor, windscreen washer fluid level sender, control unit in dash panel insert

F1	Oil pressure switch
G17	Ambient temperature sensor
G33	Windscreen washer fluid level sender
G106	Ambient temperature indicator
H3	Buzzer and gong
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K102	Rear lid closed warning lamp
T14	14-pin connector, black, near longitudinal member, front left
T14a	14-pin connector, black, near relay carrier electronics box
T32	32-pin connector, blue (connector A)
283	Earth connection 2, in engine harness
401	Earth connection (sender earth), in interior wiring harness
673	Earth point 3, on front of left longitudinal member
*	for models with windscreen washer fluid level sender/water level only
**	for models with engine code BLR, AXX, BLY, BVY, BWA, BVZ only
***	for models with engine codes BSE, BSF, BLF, BMJ, BUB, BKC, AZV, BKD only
****	for models with engine codes BLS, BMM, BMN, BUY only

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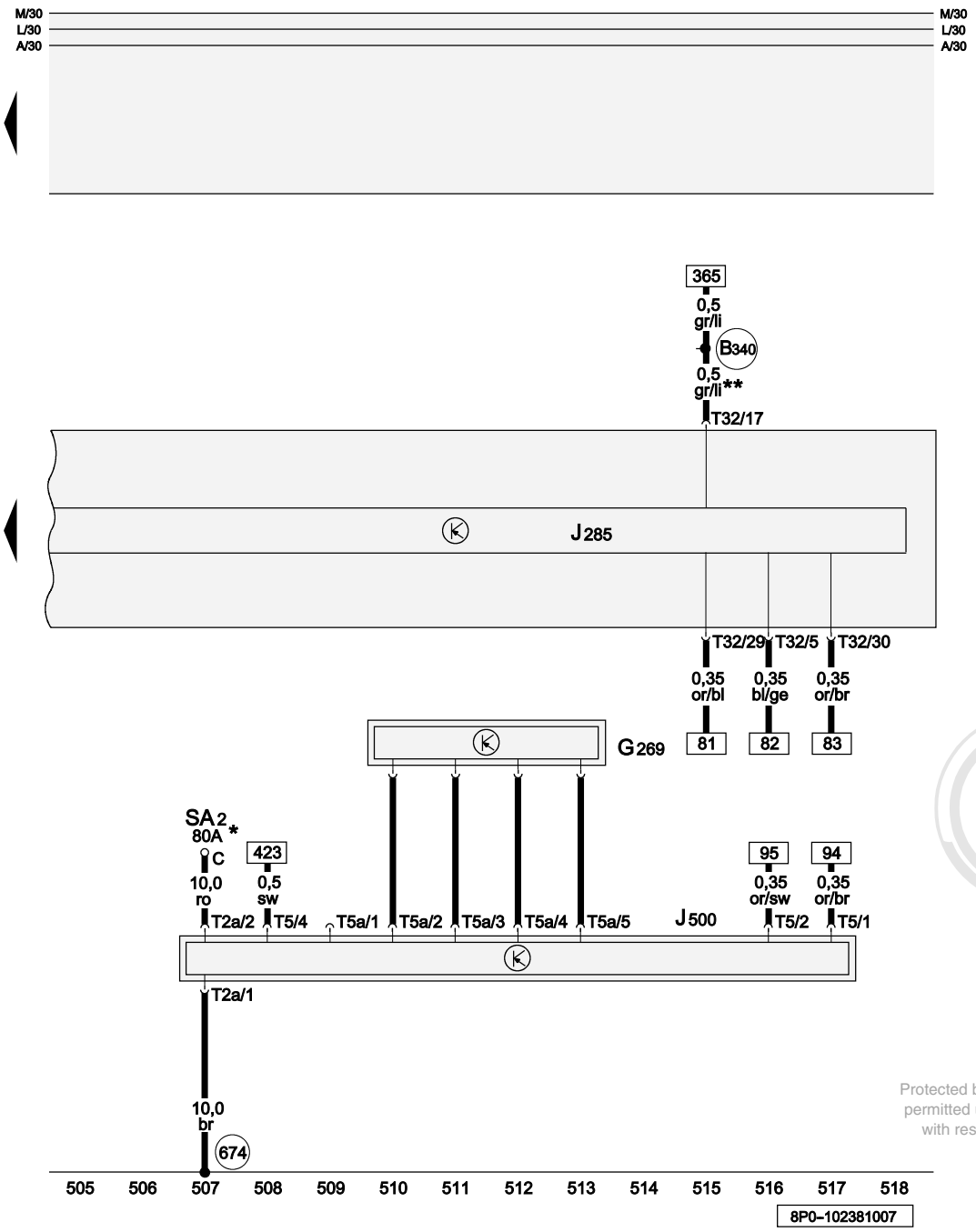


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Front left brake pad wear sender, oil level and oil temperature sender, control unit in dash panel insert

G34	Front left brake pad wear sender
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K32	Brake pad warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
372	Earth connection 7, in main wiring harness
B381	Connection 3 (brake wear indicator), in main wiring harness
B382	Connection 4 (brake wear indicator), in main wiring harness
**	phased-in modification
***	No longer fitted, phased-in modification

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Steering moment sender, control unit in dash panel insert

G269	Steering moment sender
J285	Control unit in dash panel insert
J500	Power steering control unit
SA2	Fuse 2 on fuse holder A
T2a	2-pin connector, black (connector A)
T5	5-pin connector, white (connector C)
T5a	5-pin connector, black (connector B)
T32	32-pin connector, blue (connector A)
674	Earth point 4, on front of left longitudinal member
B340	Connection 1 (58d), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in luggage compartment or engine compartment
**	for models without air conditioning system and with automatic gearbox only

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German special police, special vehicles (civil vehicle, doctor on call vehicle)

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

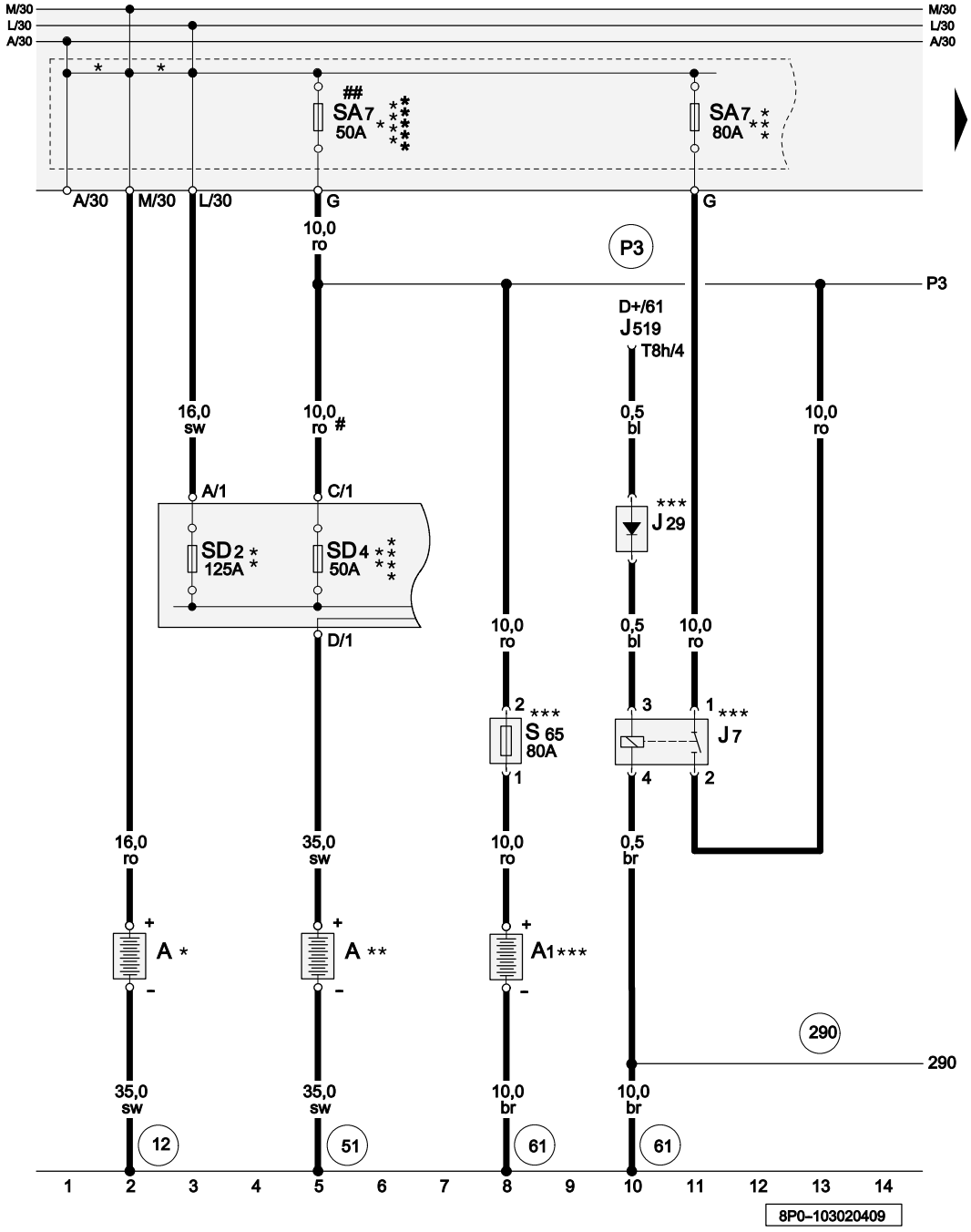
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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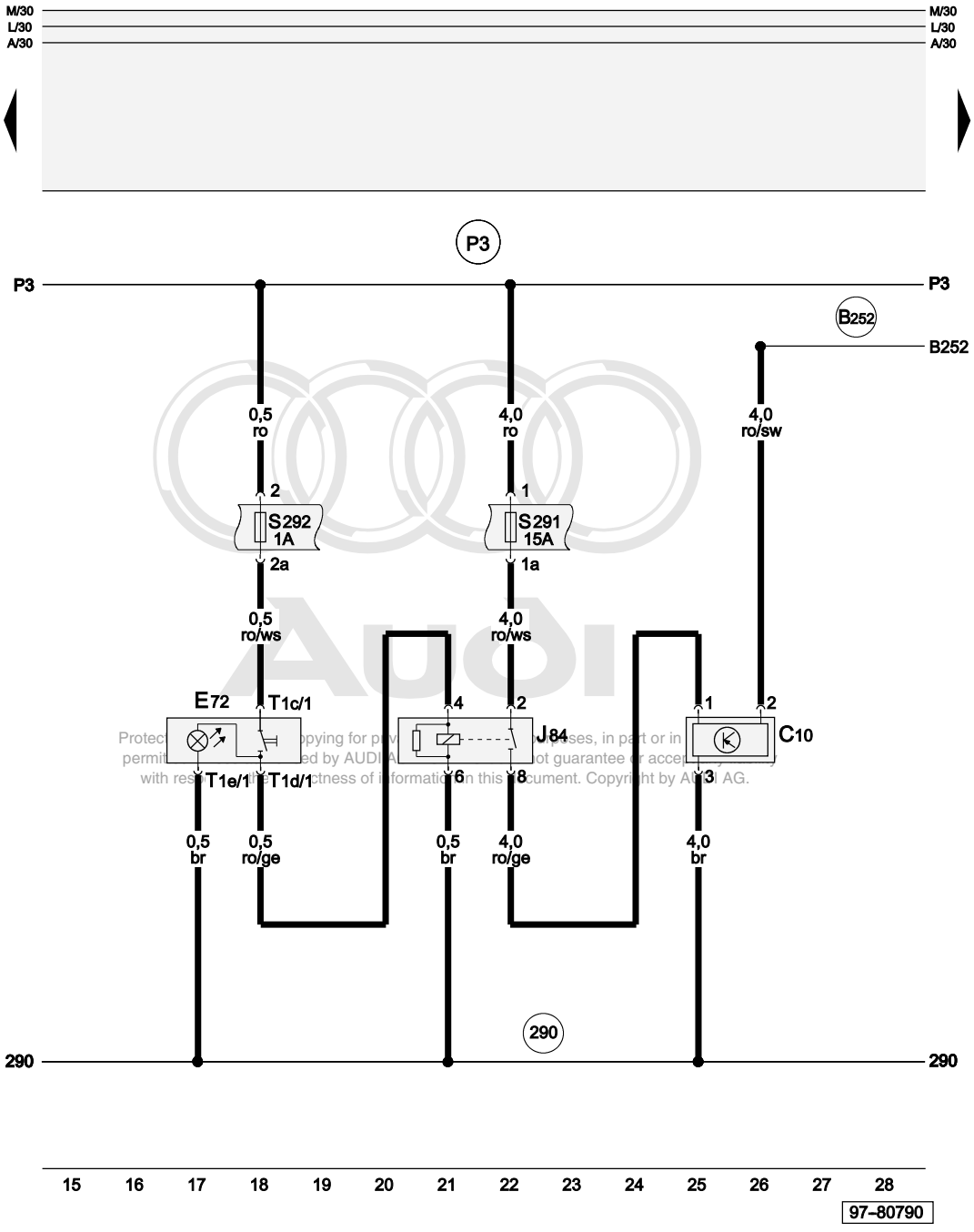


Battery, second battery, battery isolation relay, fuses

A	Battery
A1	Second battery
J7	Battery isolation relay
J29	Blocking diode
J519	Onboard supply control unit
S65	2nd battery fuse
SA7	Fuse 7 on fuse holder A
SD2	Fuse 2 on fuse holder D
SD4	Fuse 4 on fuse holder D
T8h	8-pin connector, black (connector F)
12	Earth point, on left in engine compartment
51	Earth point, on right in luggage compartment
61	Earth point, left C-pillar
290	Earth connection 1, in second battery wiring harness
P3	Positive connection (30), in 2nd battery wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only
***	German special police only, is dropped from May 2009 doctor on call vehicle only
****	
*****	German special police only, applicable from May 2009
#	is dropped from November 2005
##	applicable from November 2005 for models with battery in engine compartment and luggage compartment

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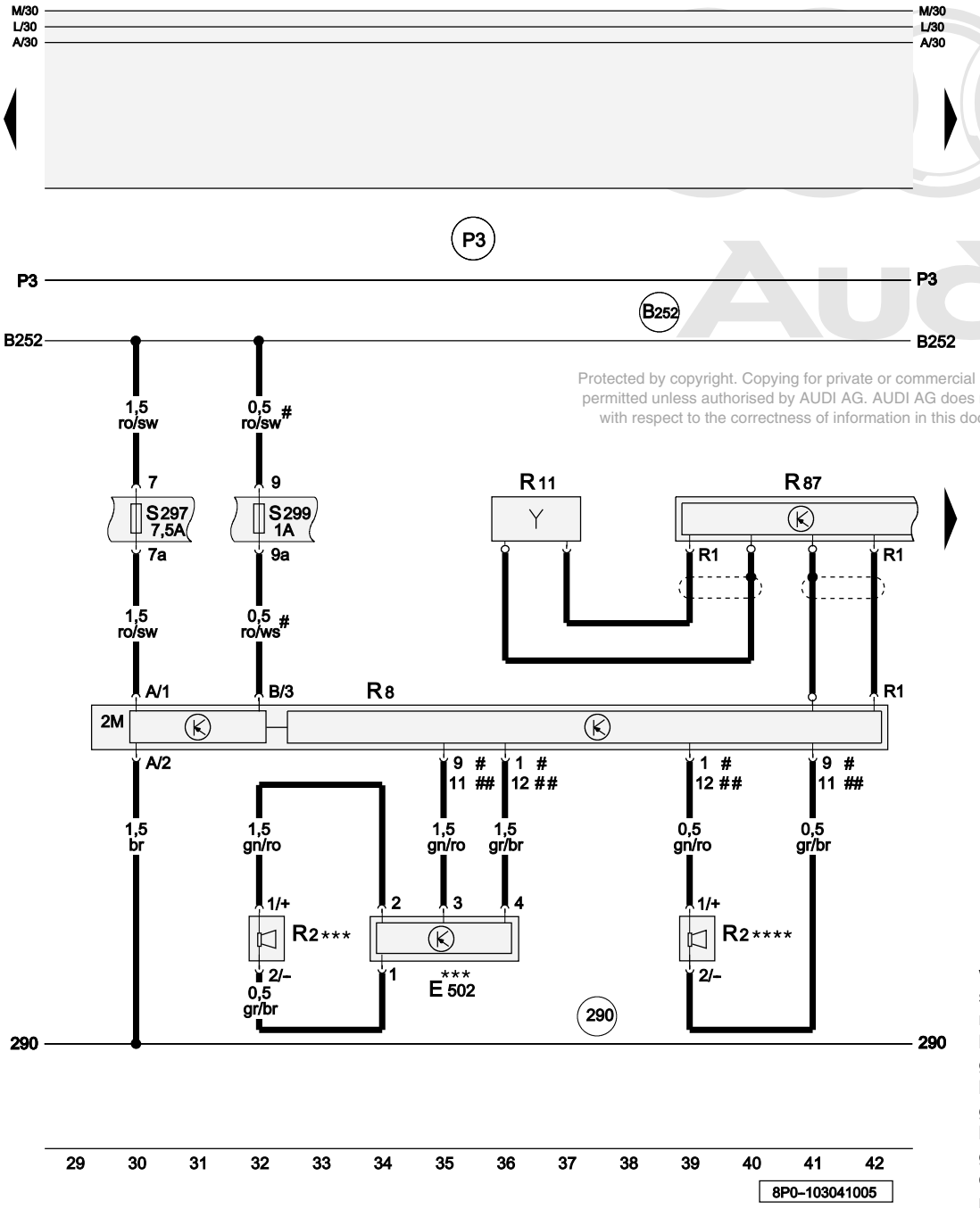


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Suppression filter, 2-way radio switch, two-way radio cut-off relay, special vehicle fuse 2

C10	Suppression filter
E72	2-way radio switch
J84	Two-way radio cut-off relay
S291	Special vehicle fuse 1
S292	Special vehicle fuse 2
T1c	Single connector, green, on 2-way radio switch
T1d	Single connector, white, on 2-way radio switch
T1e	Single connector, brown, on 2-way radio switch
290	Earth connection 1, in second battery wiring harness
B252	Positive connection (30, police), in interior wiring harness
P3	Positive connection (30), in 2nd battery wiring harness

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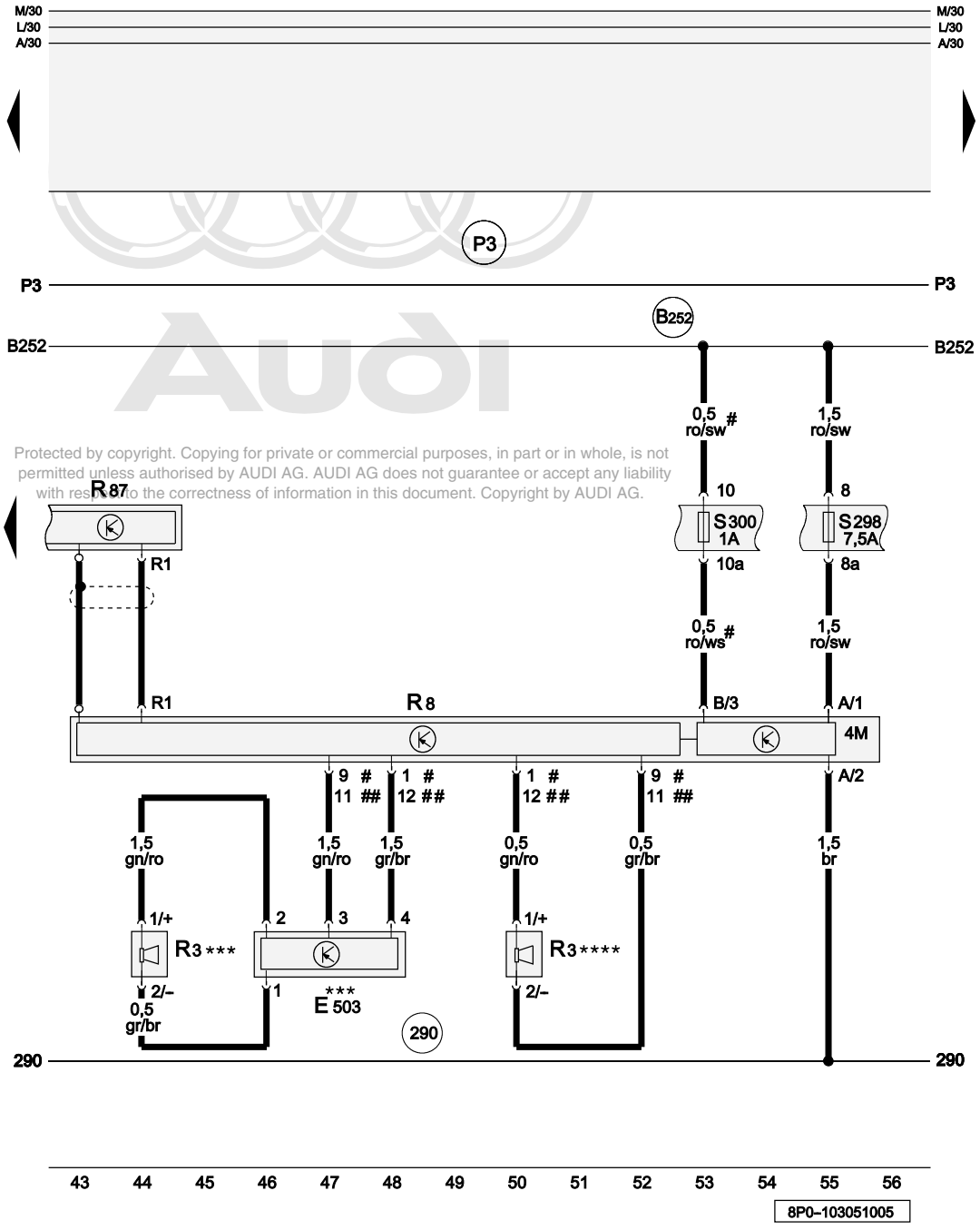


Two-way radio 2M, 2-way radio loudspeaker volume control 1, front left loudspeaker, special vehicle fuses

E502	2-way radio loudspeaker volume control 1
R1	Aerial connection
R2	Front left loudspeaker
R8	Two-way radio
R11	Aerial
R87	Aerial filter
S297	Special vehicle fuse 7
S299	Special vehicle fuse 9
290	Earth connection 1, in second battery wiring harness
B252	Positive connection (30, police), in interior wiring harness
P3	Positive connection (30), in 2nd battery wiring harness
***	German special police only
****	doctor on call vehicle only
#	for models with AEG two-way radio only
##	for models with Bosch two-way radio only

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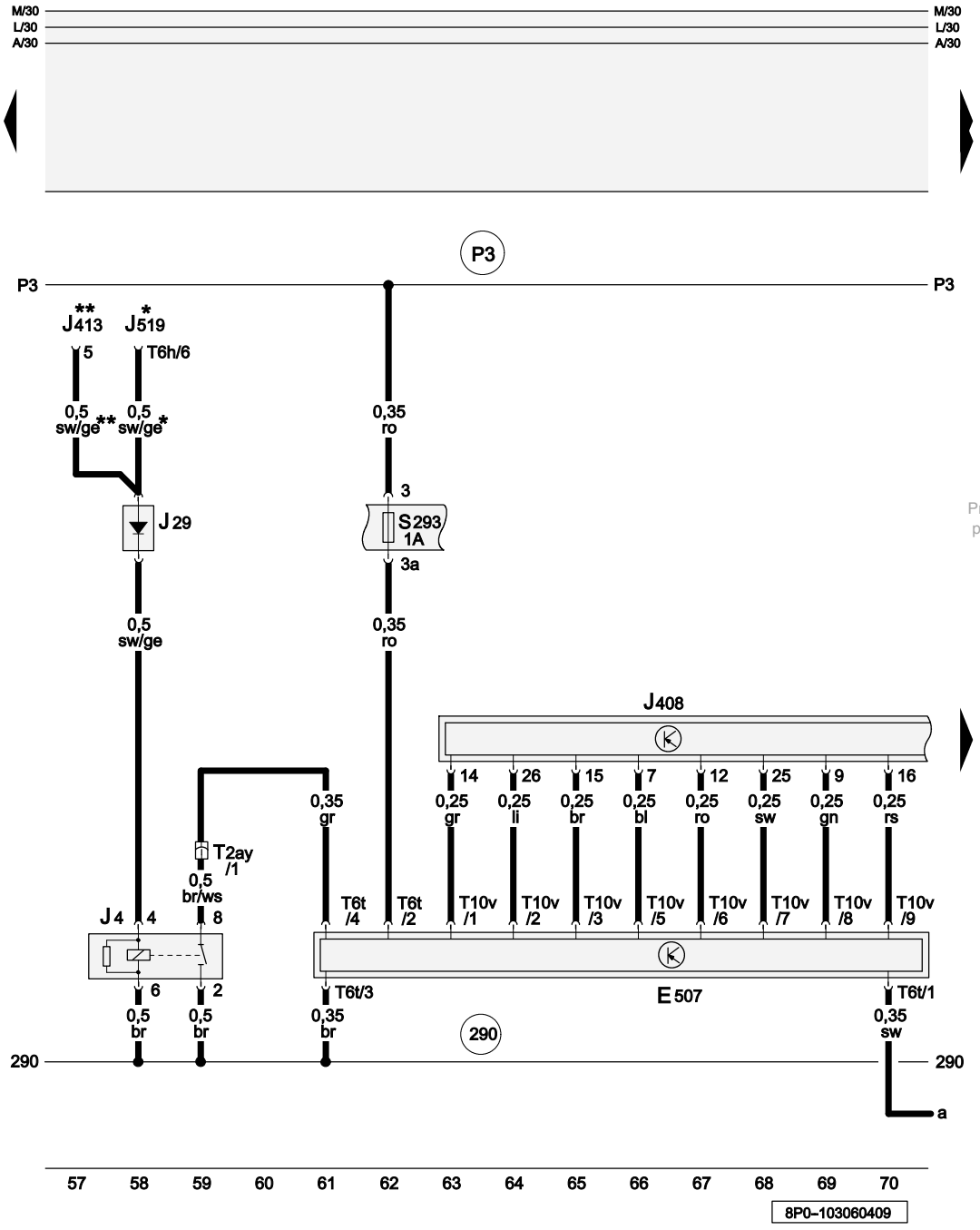


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Two-way radio 4M, 2-way radio loudspeaker volume control 2, front right loudspeaker, special vehicle fuses

E503	2-way radio loudspeaker volume control 2
R1	Aerial connection
R3	Front right loudspeaker
R8	Two-way radio
R87	Aerial filter
S298	Special vehicle fuse 8
S300	Special vehicle fuse 10
290	Earth connection 1, in second battery wiring harness
B252	Positive connection (30, police), in interior wiring harness
P3	Positive connection (30), in 2nd battery wiring harness
***	German special police only
****	doctor on call vehicle only
#	for models with AEG two-way radio only
##	for models with Bosch two-way radio only

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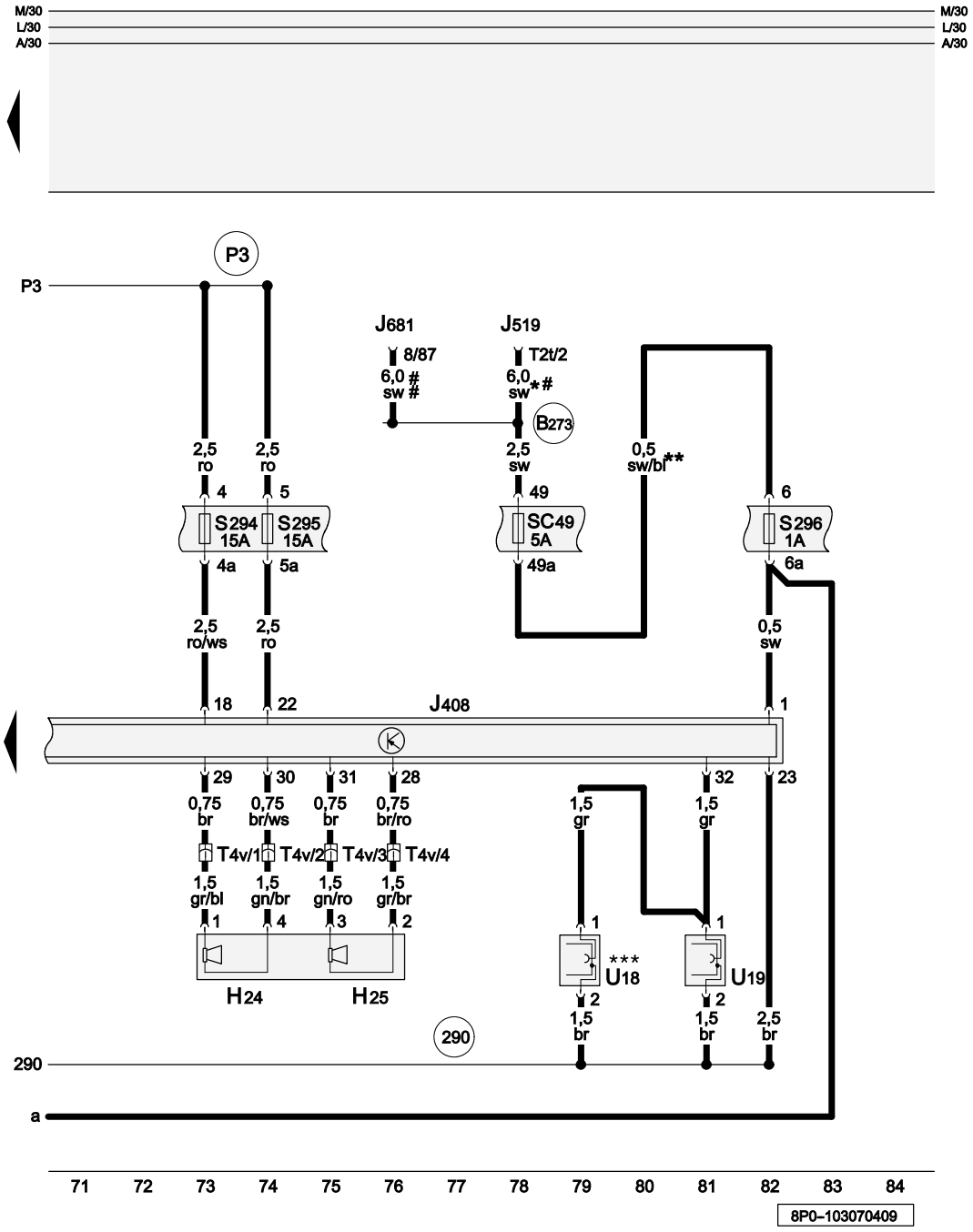


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Operating unit for special signals, dual tone horn relay, siren system relay

E507	Operating unit for special signals
J4	Dual tone horn relay
J29	Blocking diode
J408	Siren system relay
J413	Horn relay
J519	Onboard supply control unit
S293	Special vehicle fuse 3
T2ay	2-pin connector, black
T6h	6-pin connector, black (connector J)
T6t	6-pin connector, black, on operating unit for special signals
T10v	10-pin connector
290	Earth connection 1, in second battery wiring harness
P3	Positive connection (30), in 2nd battery wiring harness
*	is dropped from May 2009
**	applicable from May 2009

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Power horn, siren system relay, special vehicle fuse

H24	Power horn 1
H25	Power horn 2
J408	Siren system relay
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
S294	Special vehicle fuse 4
S295	Special vehicle fuse 5
S296	Special vehicle fuse 6
SC49	Fuse 49 on fuse holder C
T2t	2-pin connector, black (connector L)
T4v	4-pin connector, black, near centre console
U18	12 V socket 2
U19	12 V socket 3
290	Earth connection 1, in second battery wiring harness
B273	Positive connection (15), in main wiring harness
P3	Positive connection (30), in 2nd battery wiring harness
*	Cross-section was increased from 4.0 mm² to 6.0 mm², applicable from May 2008
**	Wire colour was modified from black to black/blue, phased-in modification
***	German special police only
#	is dropped from May 2009
##	applicable from May 2009

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gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

Battery in engine compartment

⇒ **Main fuse holder, electronics box low**

⇒ **models with engine codes BKC, AZV, BKD, BLF, BLR, BLS, BMM, BMN, BUY, BSE, BSF, BLY, BVY, BVZ**

from model year 2006

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Notes:

For information concerning

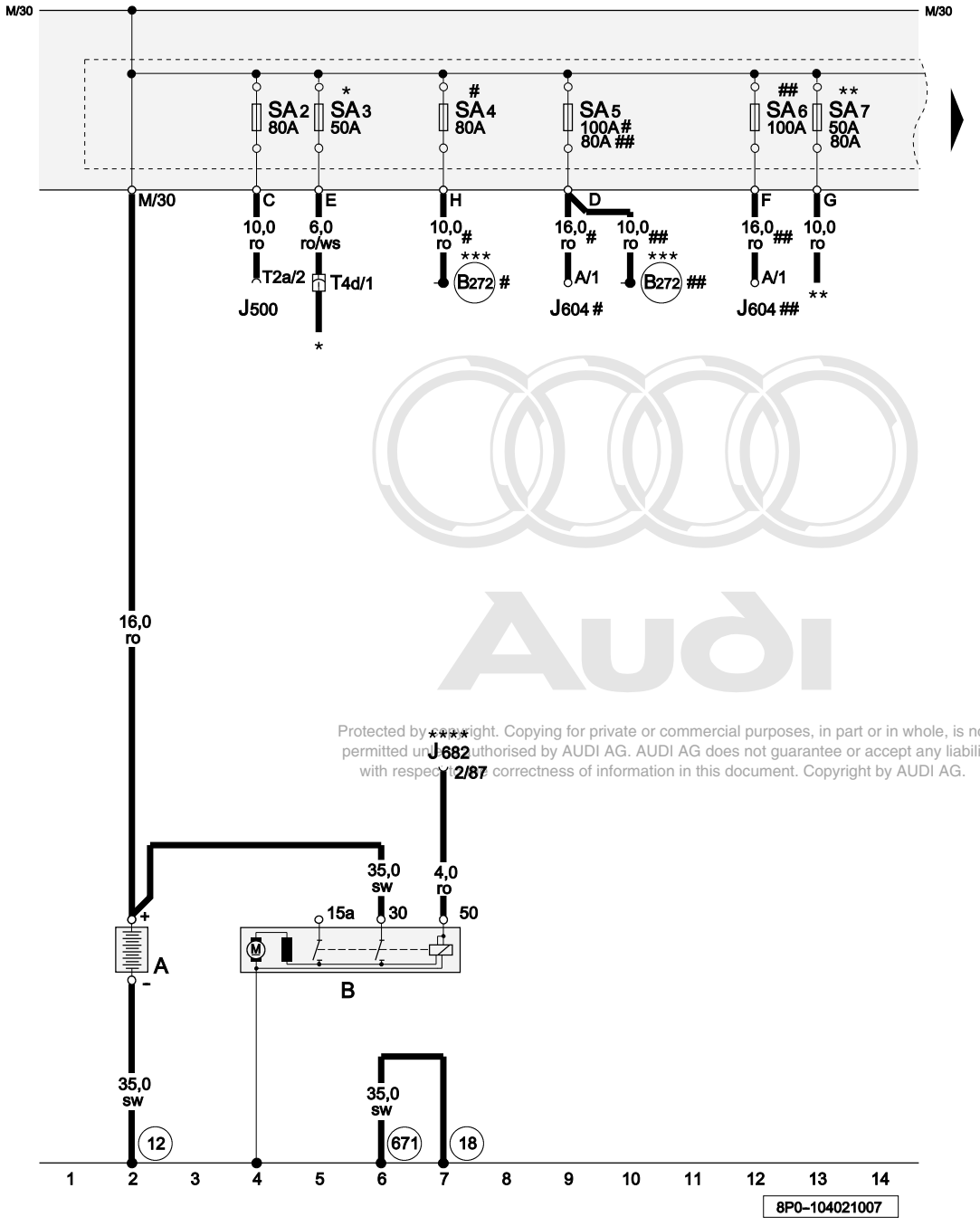
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

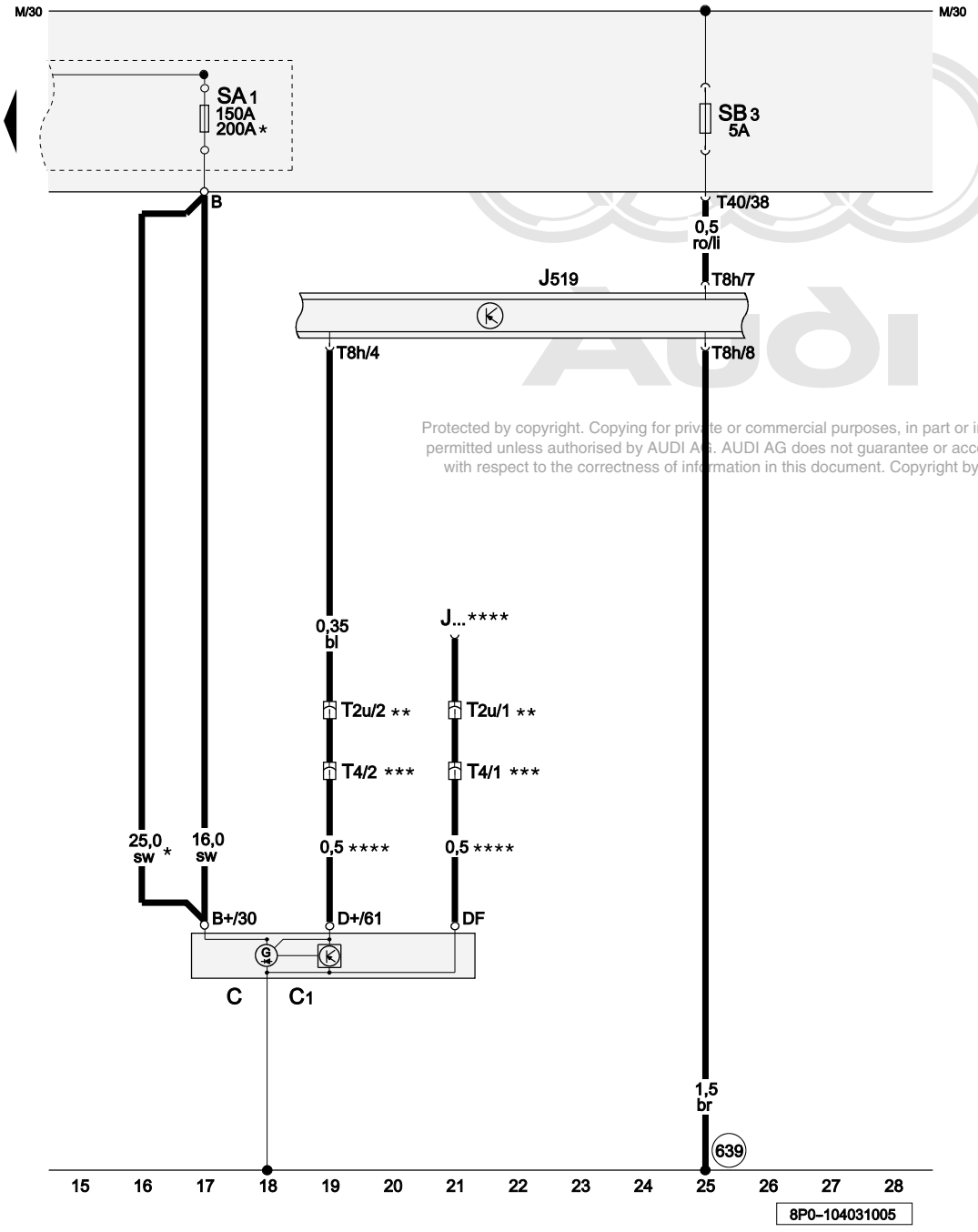


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Starter, battery, fuses on fuse holder A

A	Battery
B	Starter
J500	Power steering control unit
J604	Auxiliary air heater control unit
J682	Terminal 50 voltage supply relay
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
SA7	Fuse 7 on fuse holder A
T2a	2-pin connector, black (connector A)
T4d	4-pin connector, black, on radiator fan (front end)
12	Earth point, on left in engine compartment
18	Earth point on engine block
671	Earth point 1, on front of left longitudinal member
B272	Positive connection (30), in main wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan control
**	⇒ applicable Current Flow Diagram german special police, special vehicles
***	supply for the fuses SC12 up to SC17, SC19, SC22 up to SC27, SC28, SC38
****	⇒ applicable engine Current Flow Diagram
#	is dropped from November 2005
##	applicable from November 2005



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Alternator, voltage regulator

J...	Engine control units
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SB3	Fuse 3 on fuse holder B
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
639	Earth point, left A-pillar
*	for models with alternator (140A) only
**	for models without air conditioning system only
***	for models with air conditioning system only
****	⇒ applicable engine Current Flow Diagram

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Battery in engine compartment

⇒ **Main fuse holder, electronics box high**

⇒ **models with engine codes AXX, BPY, BWA**

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

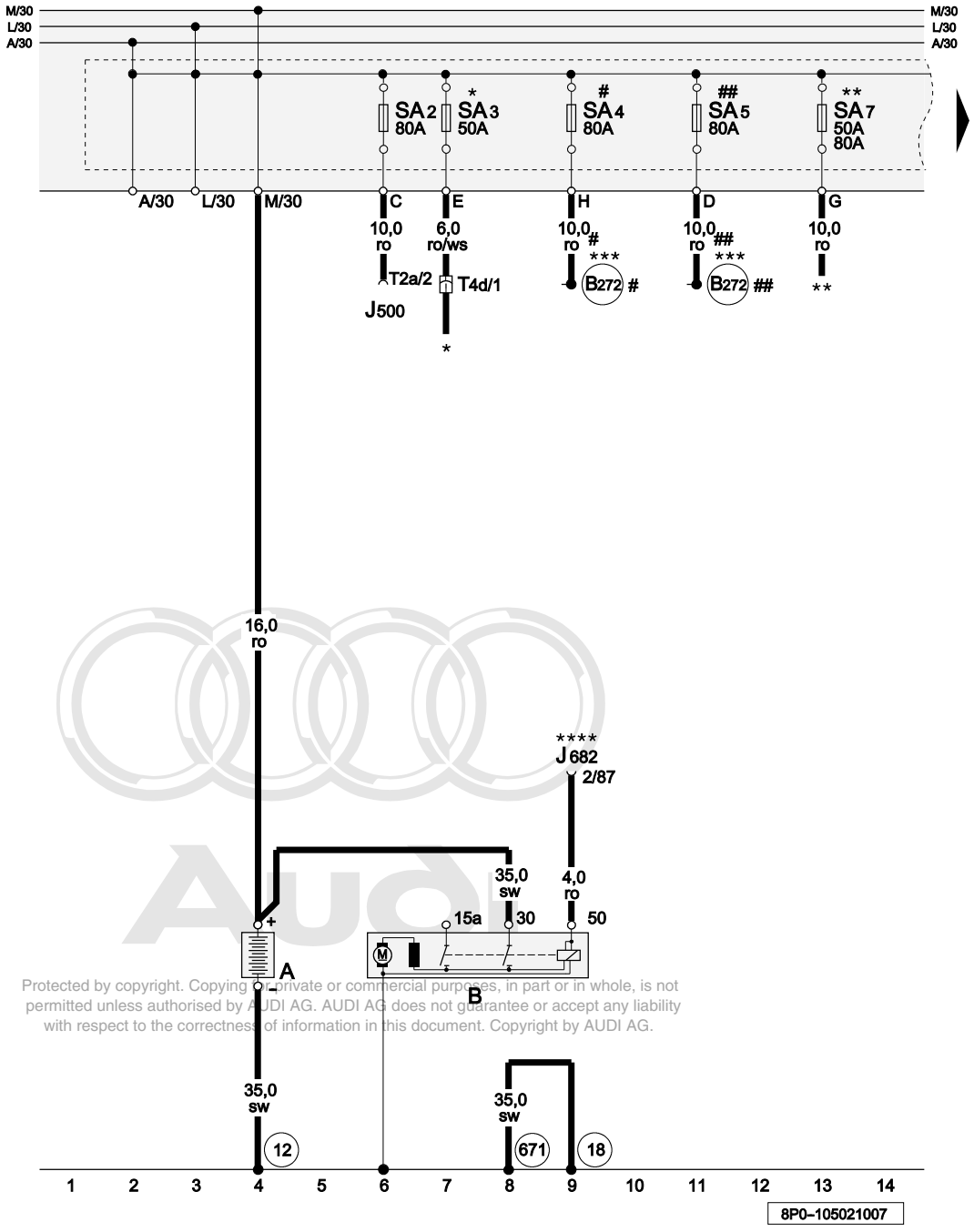
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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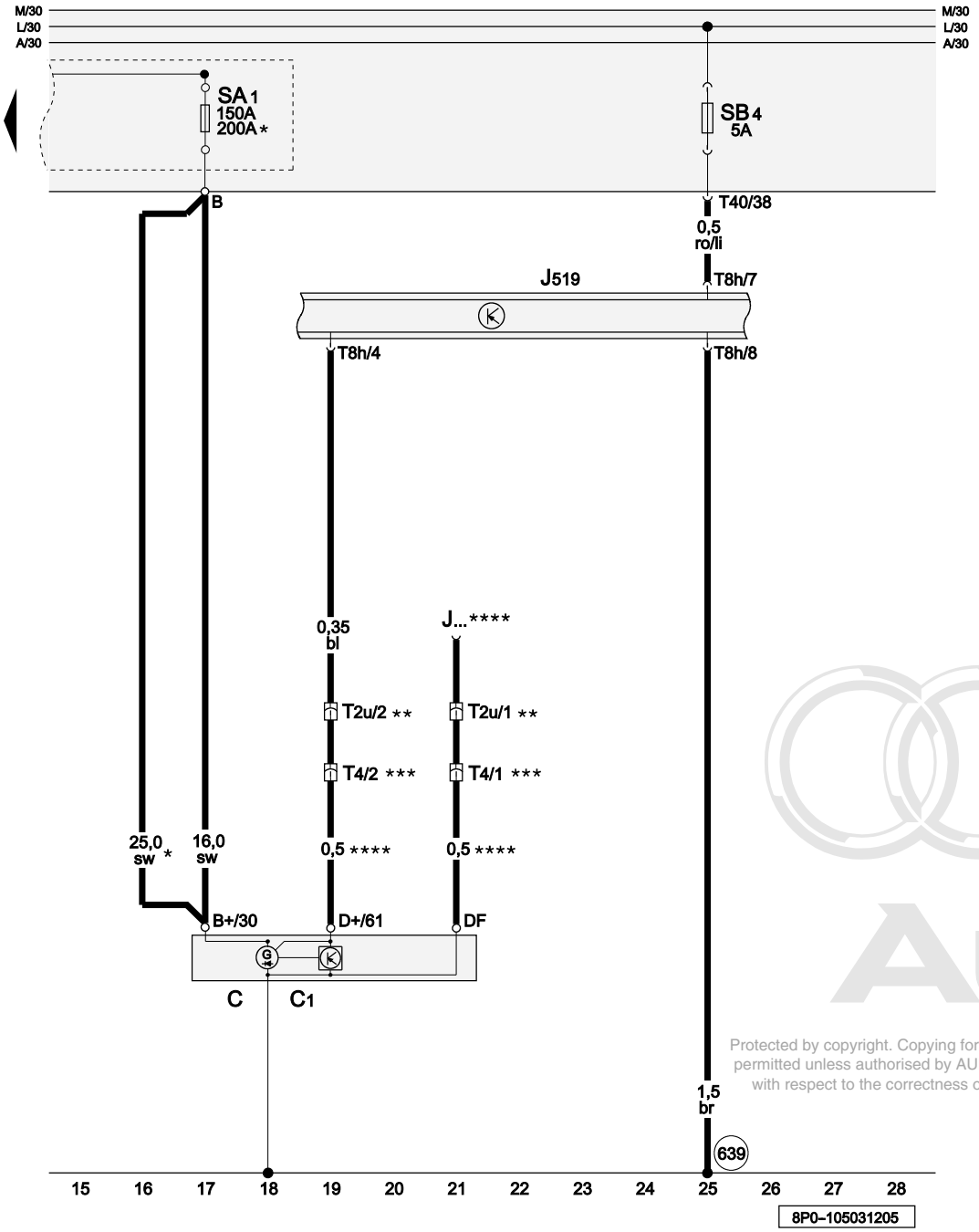


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Starter, battery, fuses on fuse holder A

A	Battery
B	Starter
J500	Power steering control unit
J682	Terminal 50 voltage supply relay
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SA7	Fuse 7 on fuse holder A
T2a	2-pin connector, black (connector A)
T4d	4-pin connector, black, on radiator fan (front end)
12	Earth point, on left in engine compartment
18	Earth point on engine block
671	Earth point 1, on front of left longitudinal member
B272	Positive connection (30), in main wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan control
**	⇒ applicable Current Flow Diagram german special police, special vehicles
***	supply for the fuses SC12 up to SC17, SC19, SC22 up to SC27, SC28, SC38
****	⇒ applicable engine Current Flow Diagram
#	is dropped from November 2005
##	applicable from November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink



Alternator, voltage regulator

C	Alternator
C1	Voltage regulator
J...	Engine control units
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SB4	Fuse 4 on fuse holder B
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
639	Earth point, left A-pillar
*	for models with alternator (140A) only
**	for models without air conditioning system only
***	for models with air conditioning system only
****	⇒ applicable engine Current Flow Diagram

ws	=	white
sw	=	black
ro	=	red
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Sliding/tilting sunroof

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

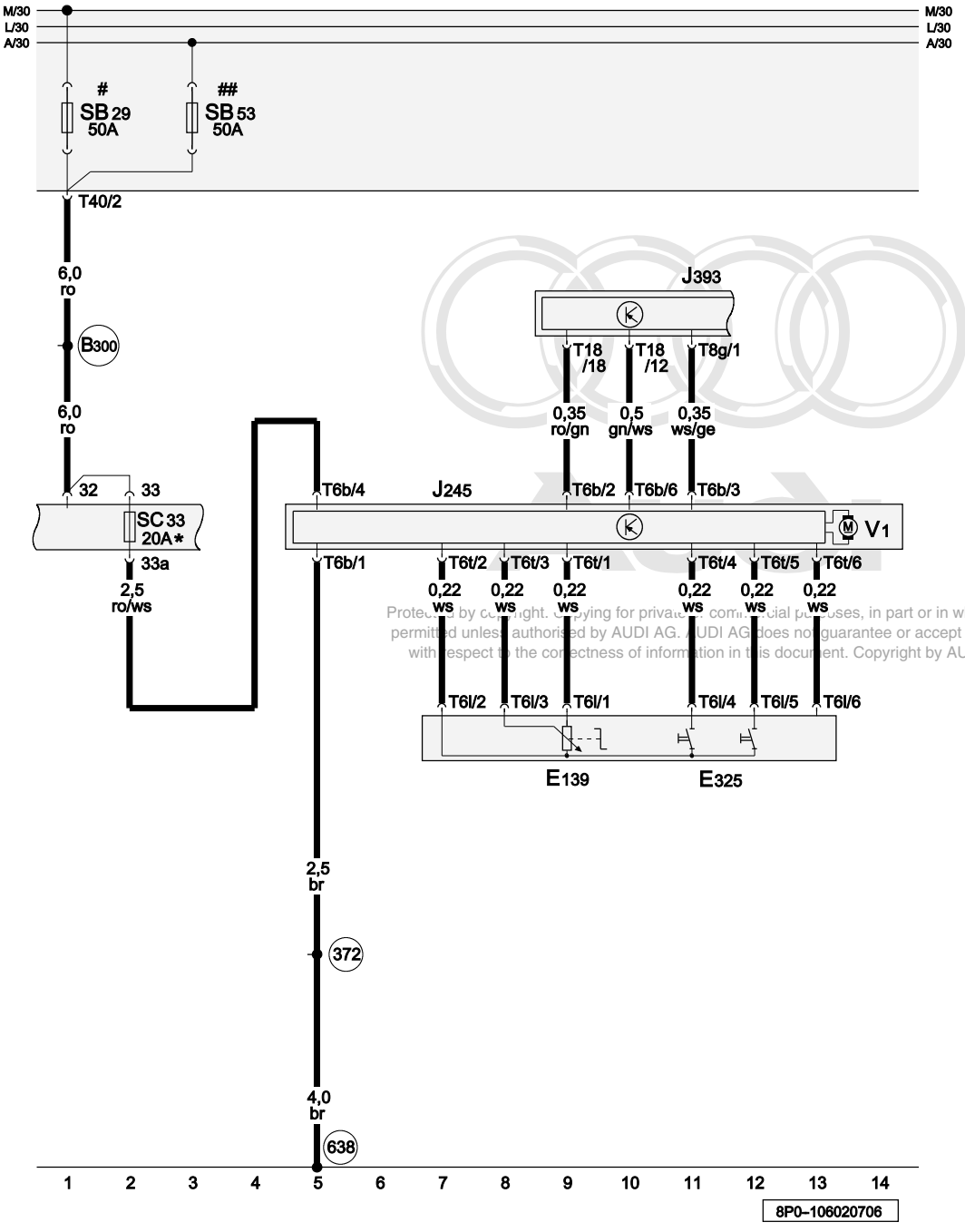
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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Sliding sunroof motor, sliding sunroof adjustment control unit

E139	Sliding sunroof adjustment regulator
E325	Sunroof button
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC33	Fuse 33 on fuse holder C
T6b	6-pin connector, blue (connector A)
T6l	6-pin connector, black, sunroof, near interior light
T6t	6-pin connector, black (connector B)
T8g	8-pin connector, black (connector B)
T18	18-pin connector, brown (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V1	Sliding sunroof motor
(372)	Earth connection 7, in main wiring harness
(638)	Earth point, right A-pillar
(B300)	Positive connection 4 (30), in main wiring harness
*	fuse was reduced from 25 A to 20 A, applicable from model year 2007
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

Battery in luggage compartment

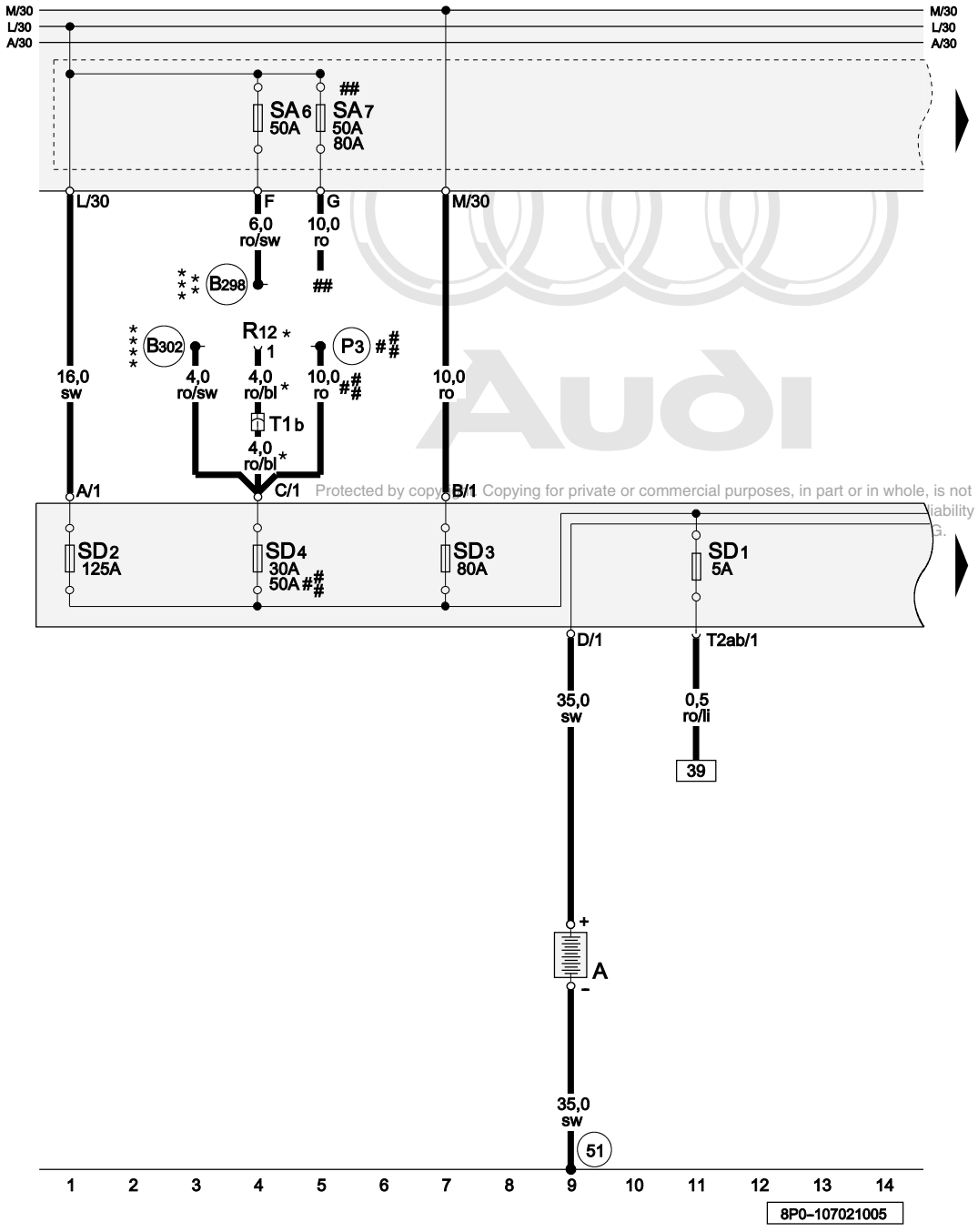
⇒ **Main fuse holder, electronics box high, main fuse box**
⇒ **models with engine code BMJ, BUB**
from model year 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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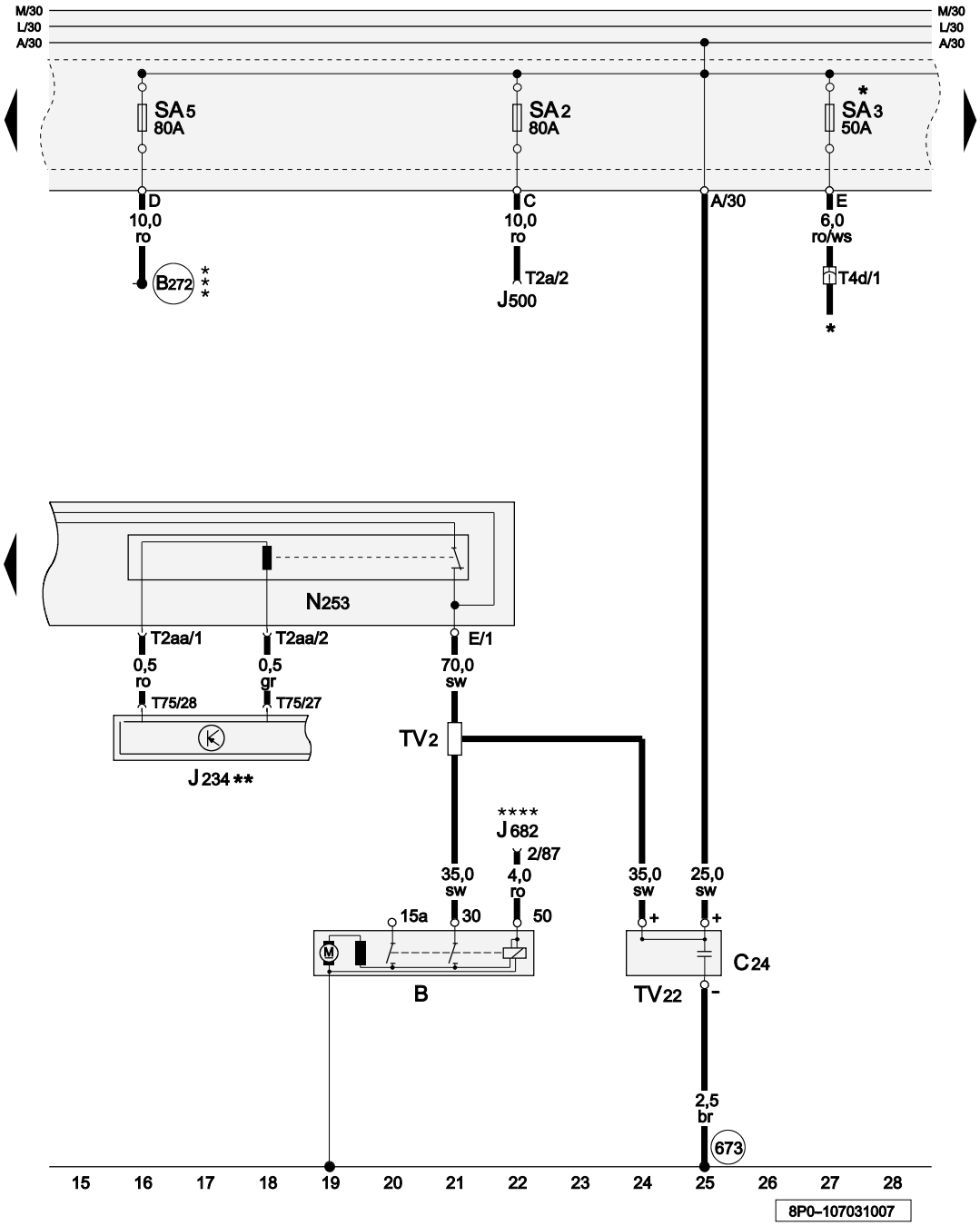


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Battery

A	Battery
R12	Amplifier
SA6	Fuse 6 on fuse holder A
SA7	Fuse 7 on fuse holder A
SD1	Fuse 1 on fuse holder D
SD2	Fuse 2 on fuse holder D
SD3	Fuse 3 on fuse holder D
SD4	Fuse 4 on fuse holder D
T1b	1-pin connector, black, on left C-pillar
T2ab	2-pin connector, black
51	Earth point, on right in luggage compartment
B298	Positive connection 2 (30), in main wiring harness
B302	Positive connection 6 (30), in main wiring harness
P3	Positive connection (30), in 2nd battery wiring harness
*	only for models with Bose sound system, is dropped, from November 2005
**	supply for the fuses SC12 up to SC17, SC19, SC44, SC45, is dropped from November 2005
***	supply for the fuses SC44, SC45, applicable from November 2005
****	supply for the fuses SC12 up to SC17, SC19, applicable from November 2005
#	only with doctor on call vehicle, is dropped, from November 2005
##	⇒ applicable Current Flow Diagram german special police, special vehicles

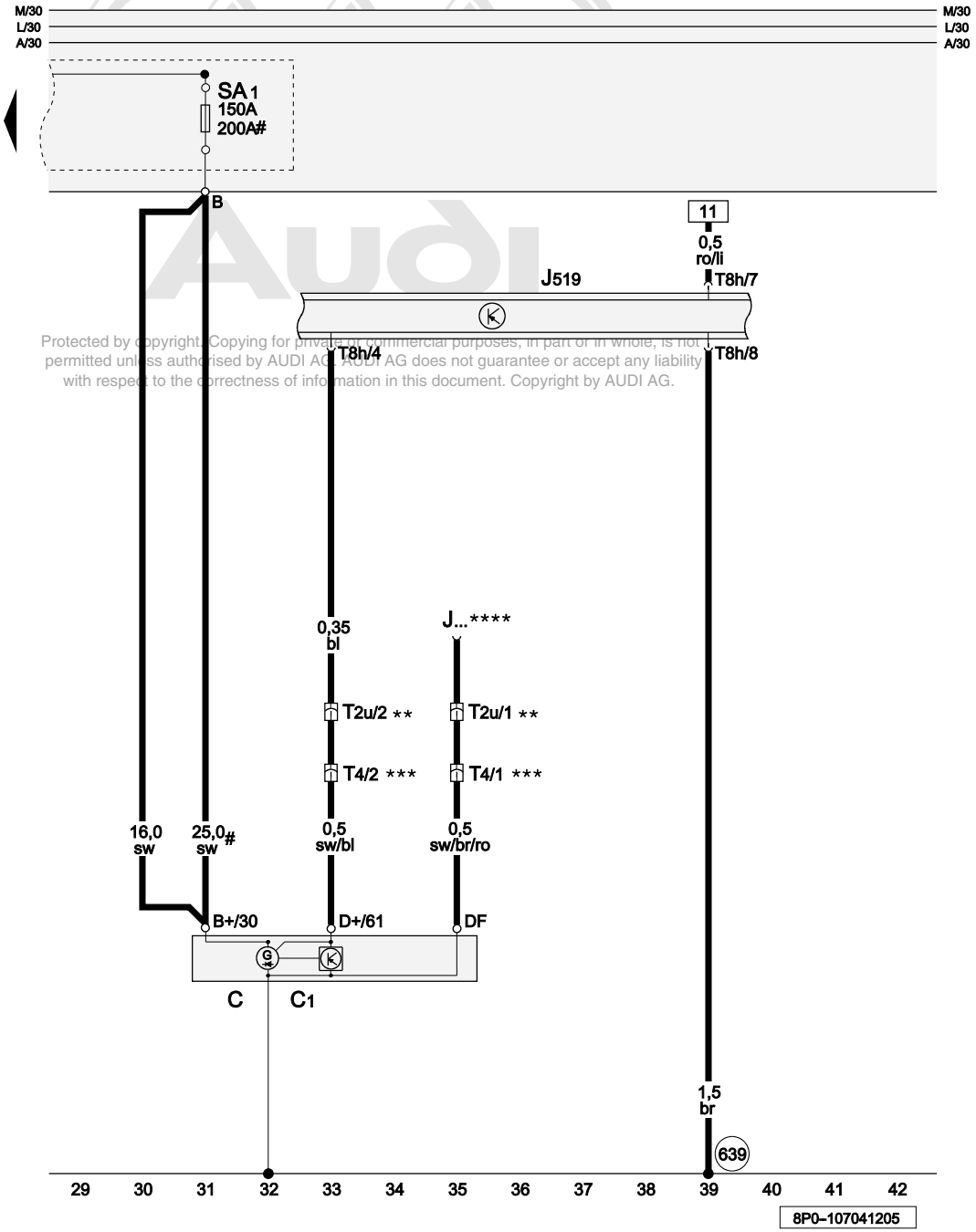


Starter, suppression filter, battery isolation igniter

B	Starter
C24	Suppression filter
J234	Airbag control unit
J500	Power steering control unit
J682	Terminal 50 voltage supply relay
N253	Battery isolation igniter
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA5	Fuse 5 on fuse holder A
T2a	2-pin connector, black (connector A)
T2aa	2-pin connector, purple (connector locking yellow)
T4d	4-pin connector, black, on radiator fan (front end)
TV2	Terminal 30 wiring junction
TV22	Terminal 30 wiring junction 2
673	Earth point 3, on front of left longitudinal member
B272	Positive connection (30), in main wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan control
**	⇒ applicable Current Flow Diagram: airbag
***	supply for the fuses SC22 up to SC27, SC28, SC38
****	⇒ applicable engine Current Flow Diagram

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Alternator

C	Alternator
C1	Voltage regulator
J...	Engine control units
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
639	Earth point, left A-pillar
**	for models without air conditioning system only
***	for models with air conditioning system only
****	⇒ applicable engine Current Flow Diagram
#	for models with alternator (140A) only

ws	=	white
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Navigation system NS-LOW

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

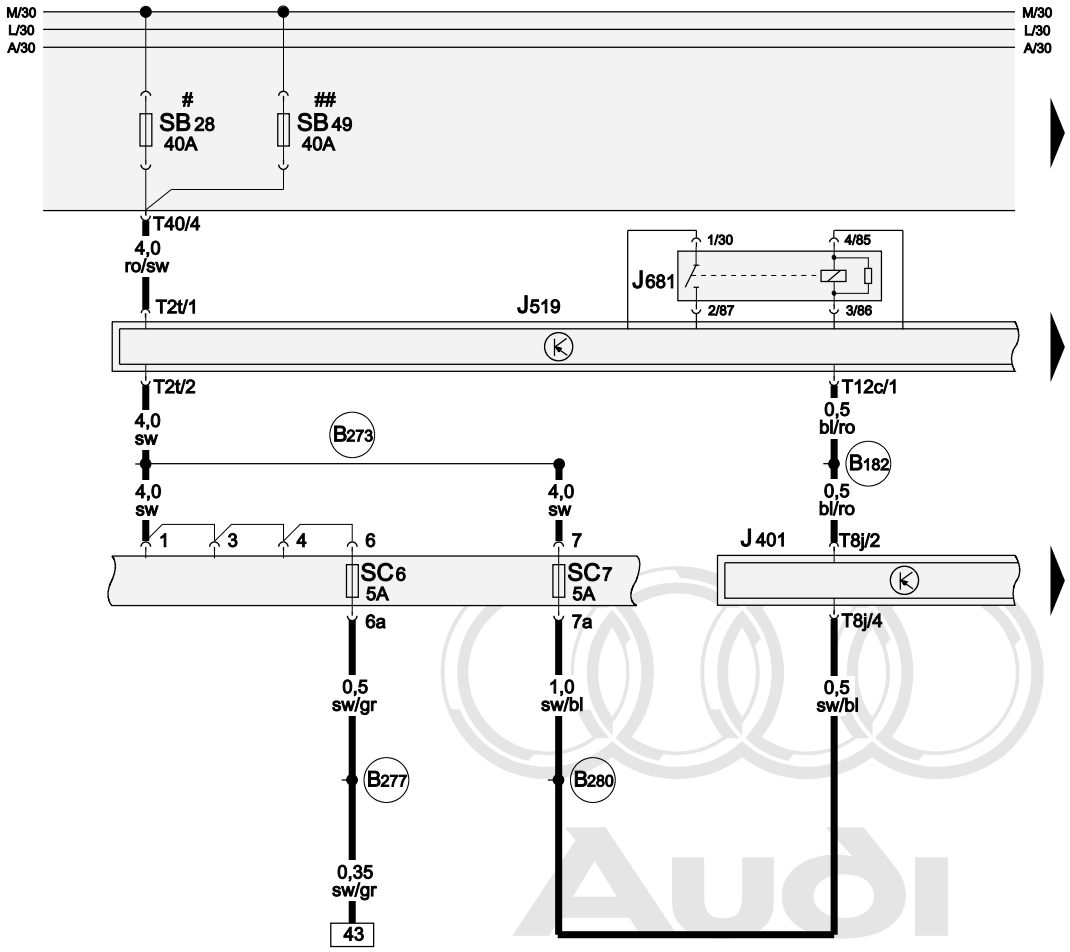
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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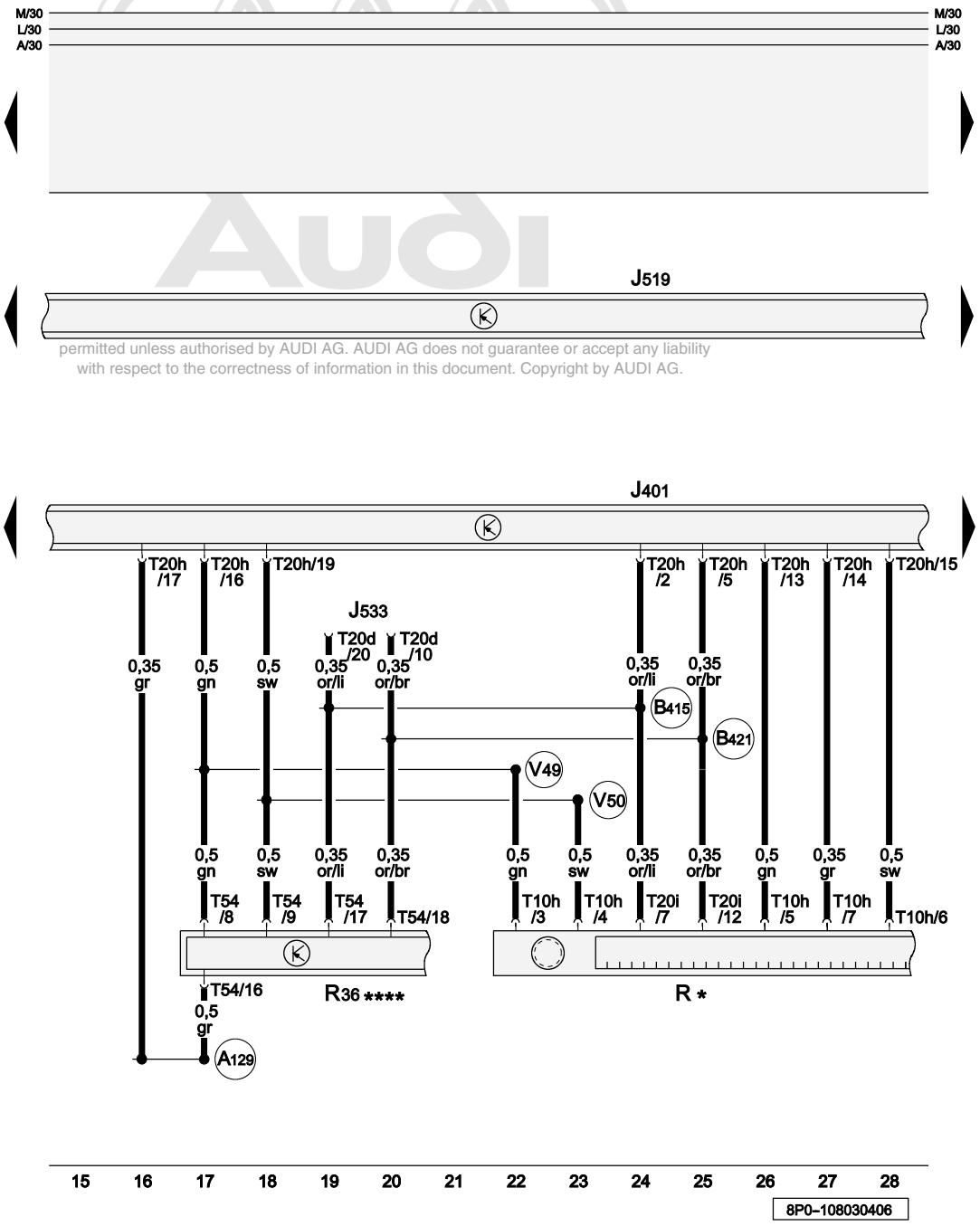
1 2 3 4 5 6 7 8 9 10 11 12 13 14

8P0-108020406

Fuses, navigation system with CD drive control unit, onboard supply control unit

J401	Navigation system with CD drive control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC6	Fuse 6 on fuse holder C
SC7	Fuse 7 on fuse holder C
T2t	2-pin connector, black (connector L)
T8j	8-pin connector, black
T12c	12-pin connector, black (connector B)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B182	Connection (RL), in interior wiring harness
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B280	Positive connection 4 (15a), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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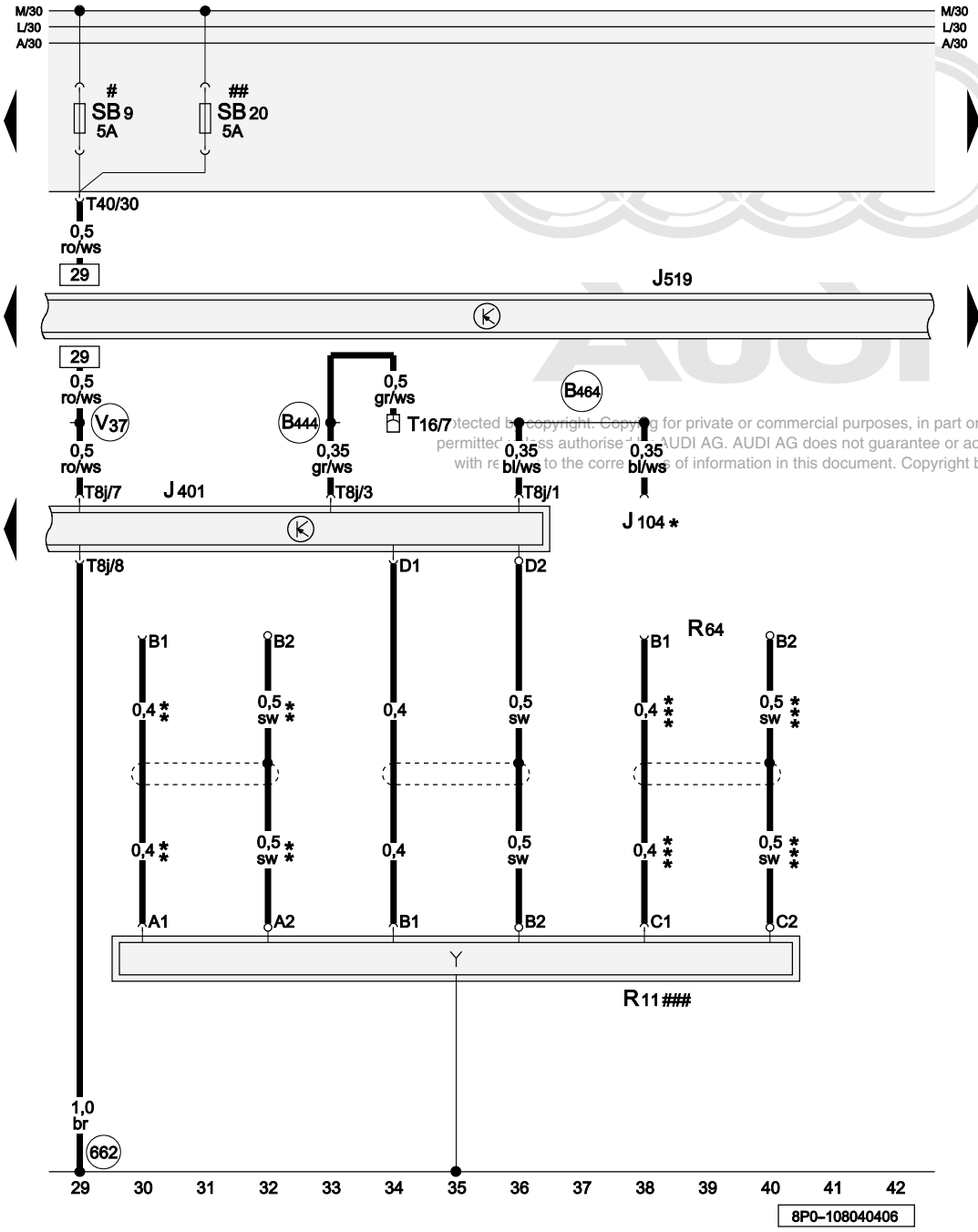


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Muting, infotainment CAN bus

J401	Navigation system with CD drive control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red
T20d	20-pin connector, yellow (connector A)
T20h	20-pin connector, black
T20i	20-pin connector, black
T54	54-pin connector, black
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with radiogeneration II only
****	only preparation for mobile telephone with hands-free system

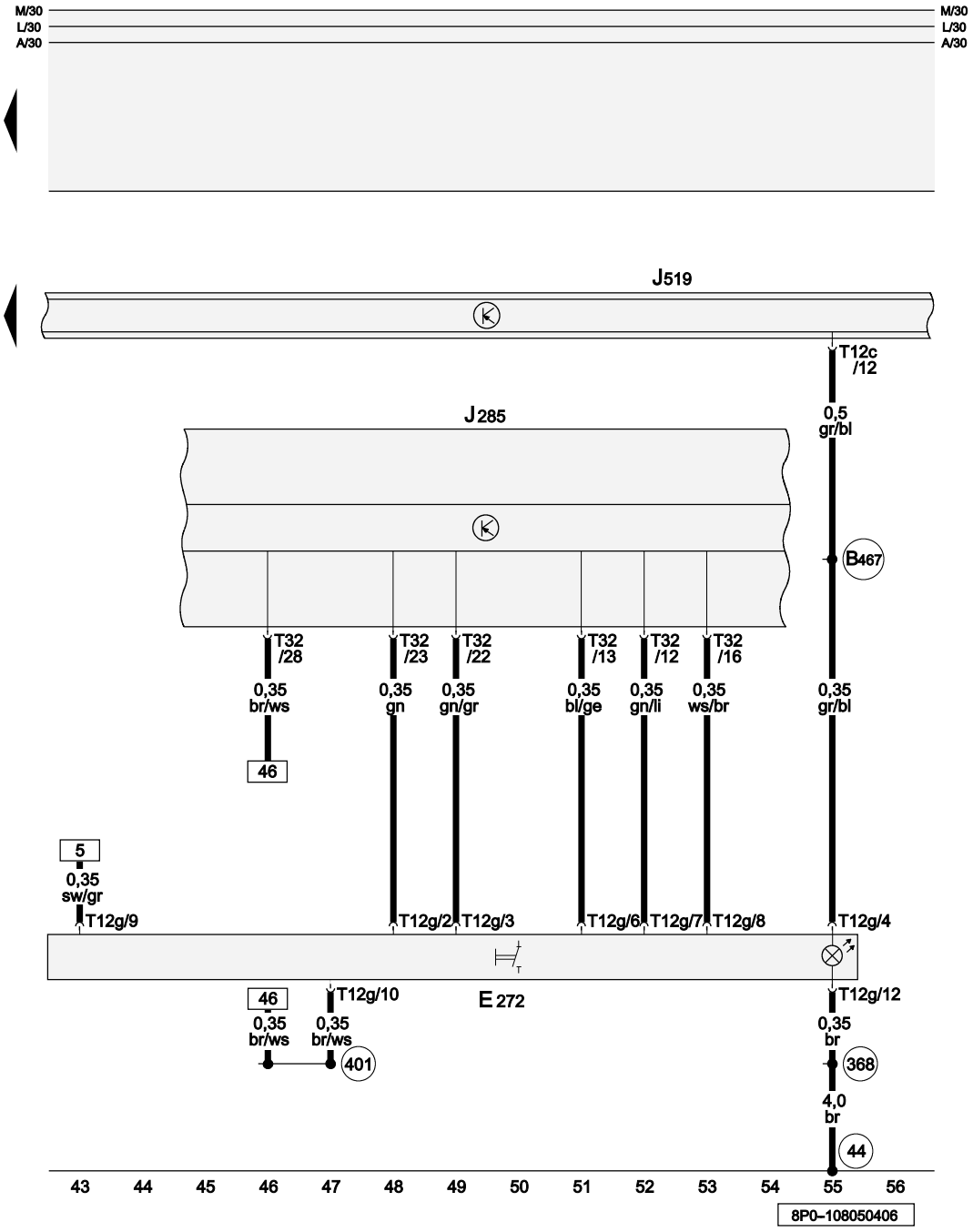


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roof aerial

J104	ABS control unit
J401	Navigation system with CD drive control unit
J519	Onboard supply control unit
R11	Aerial
R64	Remote control receiver for auxiliary heating
SB9	Fuse 9 on fuse holder B
SB20	Fuse 20 on fuse holder B
T8j	8-pin connector, black
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
662	Earth point, rear left side panel
B444	Connection 1 (diagnosis), in main wiring harness
B464	Connection (speed signal), in main wiring harness
V37	Positive connection (30), in communication wiring harness
*	⇒ applicable Current Flow Diagram: ABS
**	for models with preparation for mobile telephone only
***	for models with auxiliary heating only
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations
###	R11 is replaced by R66



Function selection switch 2, control unit in dash panel insert

E272	Function selection switch 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
T12c	12-pin connector, black (connector B)
T12g	12-pin connector, brown
T32	32-pin connector, blue (connector A)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B467	Connection 3, in main wiring harness

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Radio and navigation system RNS-E without Bose sound system

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

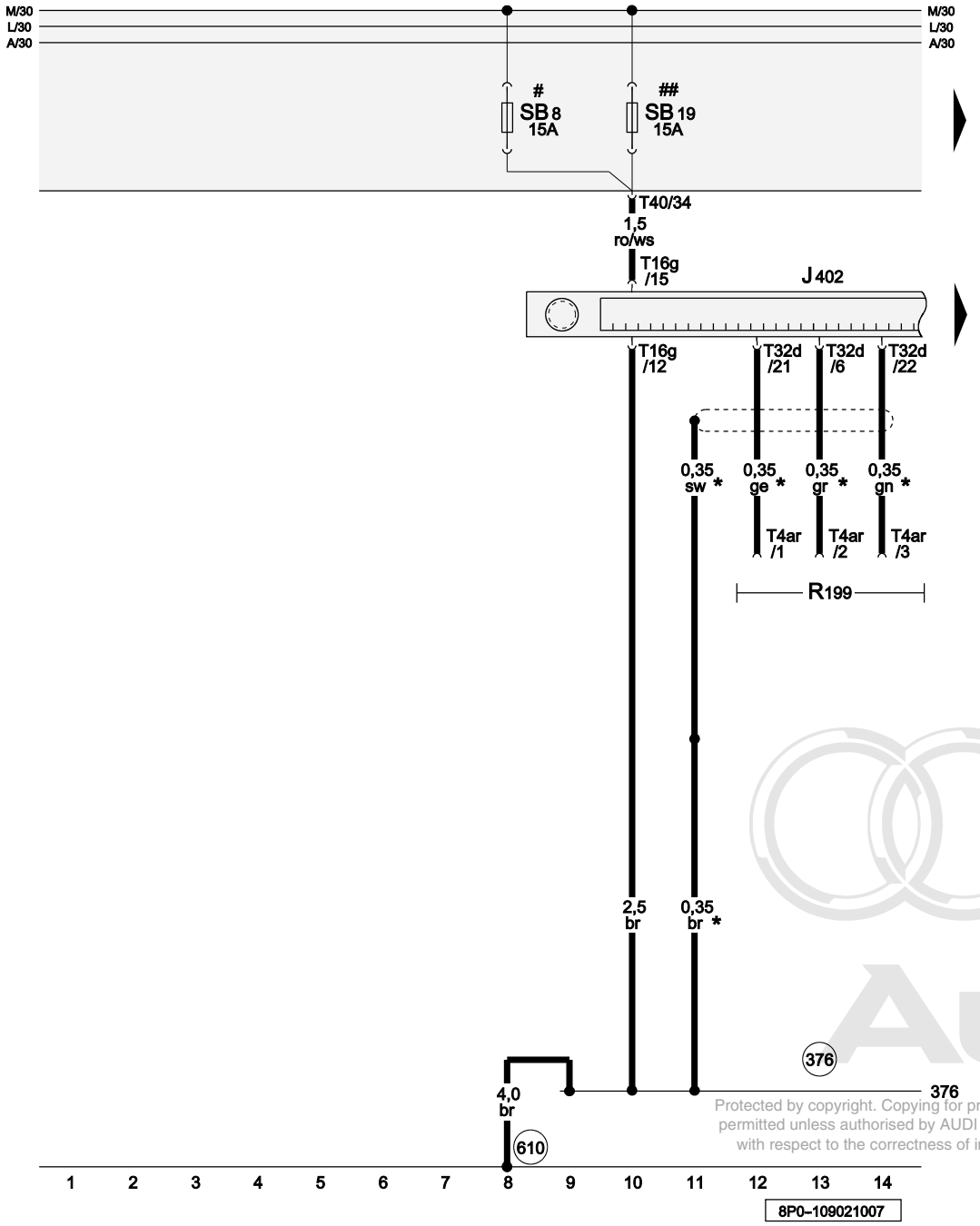
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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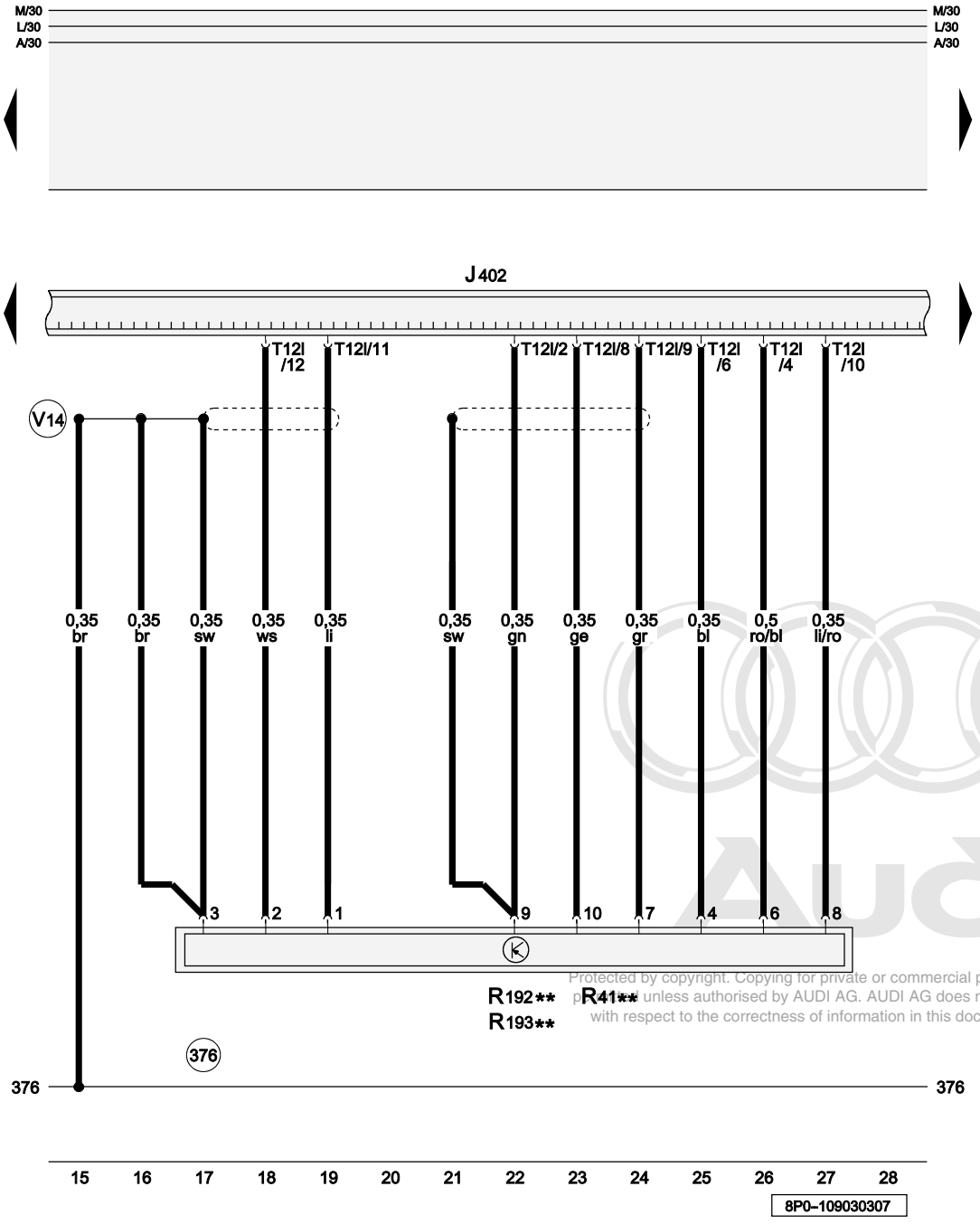


Fuses on fuse holder

J402	Navigation operating electronics control unit
R199	Connection for external audio source
SB8	Fuse 8 on fuse holder B
SB19	Fuse 19 on fuse holder B
T4ar	4-pin connector
T16g	16-pin connector, black (connector D)
T32d	32-pin connector, grey (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
*	for models with connection for external audio source only
#	for models with electronics box low only ⇒ Fitting Locations
##	for models with electronics box high only ⇒ Fitting Locations

ws	=	white
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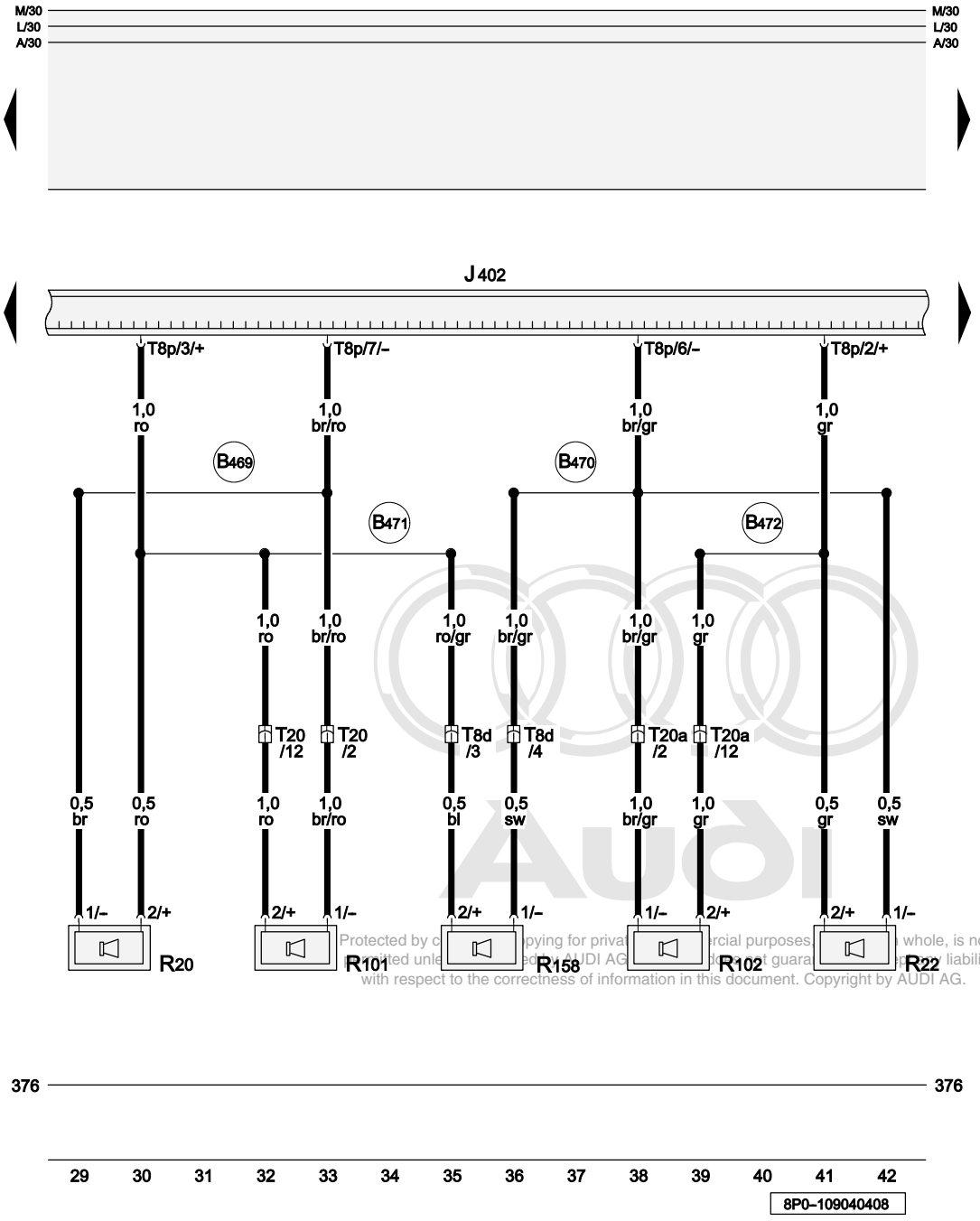


CD changer, iPod holder, USB connection retainer

J402	Navigation operating electronics control unit
R41	CD changer
R192	iPod holder
R193	USB connection retainer
T12l	12-pin connector, blue (connector B)
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
**	for models with CD changer or iPod holder or USB connection retainer only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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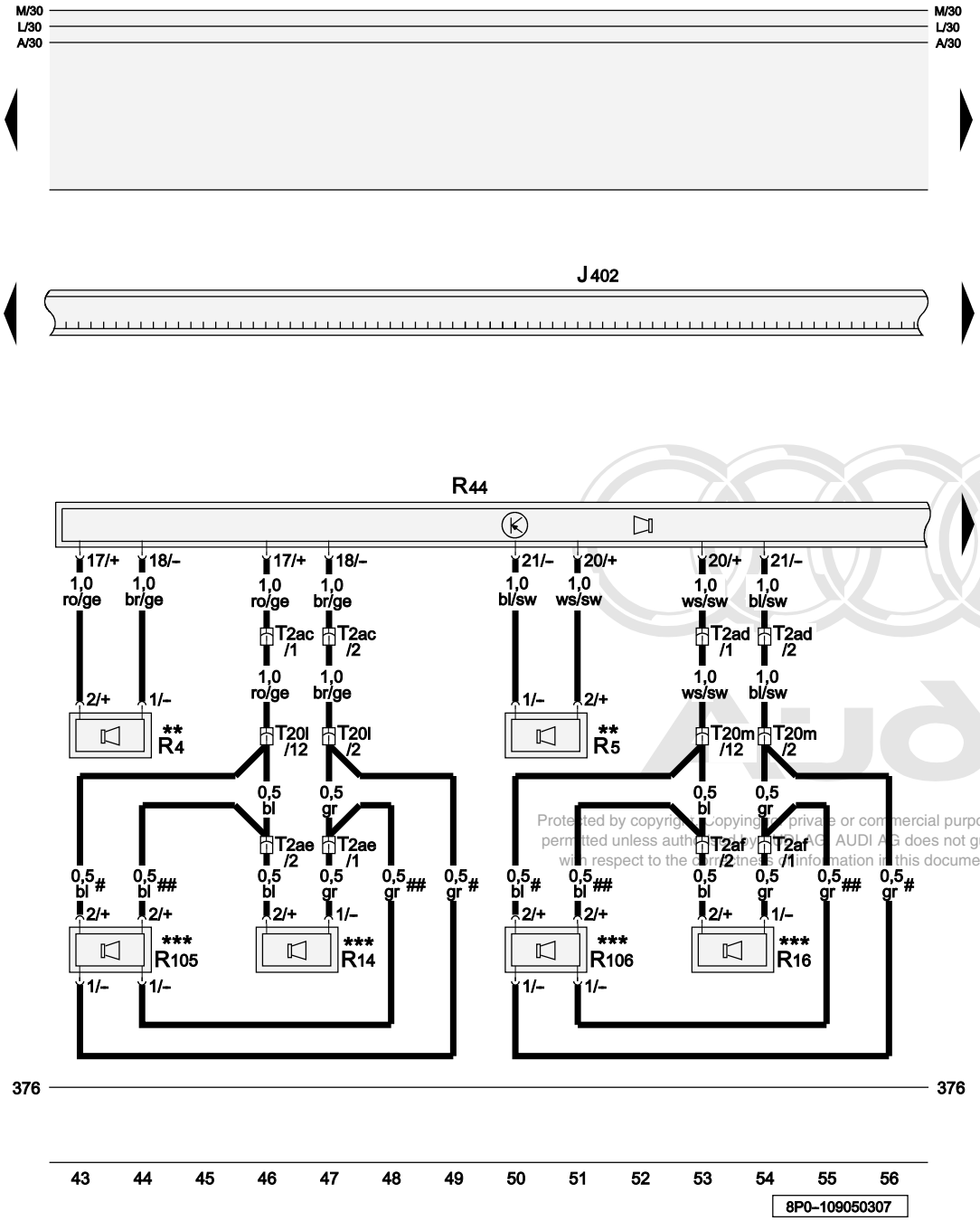


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Front loudspeaker

J402	Navigation operating electronics control unit
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8p	8-pin connector, brown (connector A)
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

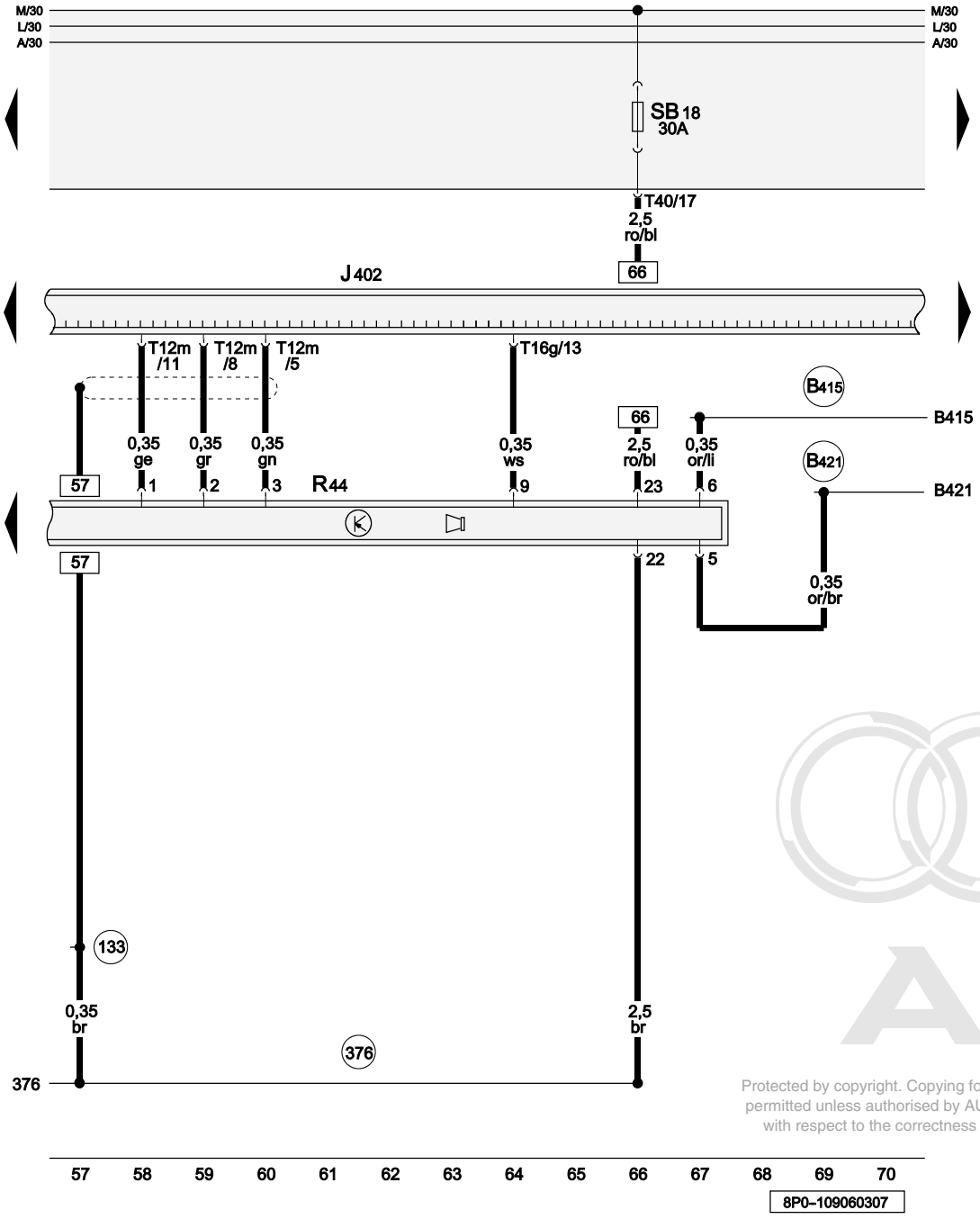


Amplifier with bass loudspeaker, on left in luggage compartment, rear loudspeaker

J402	Navigation operating electronics control unit
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
**	for models with 3-door models only
***	for models with 5-door models only
#	phased-in modification
##	No longer fitted, phased-in modification

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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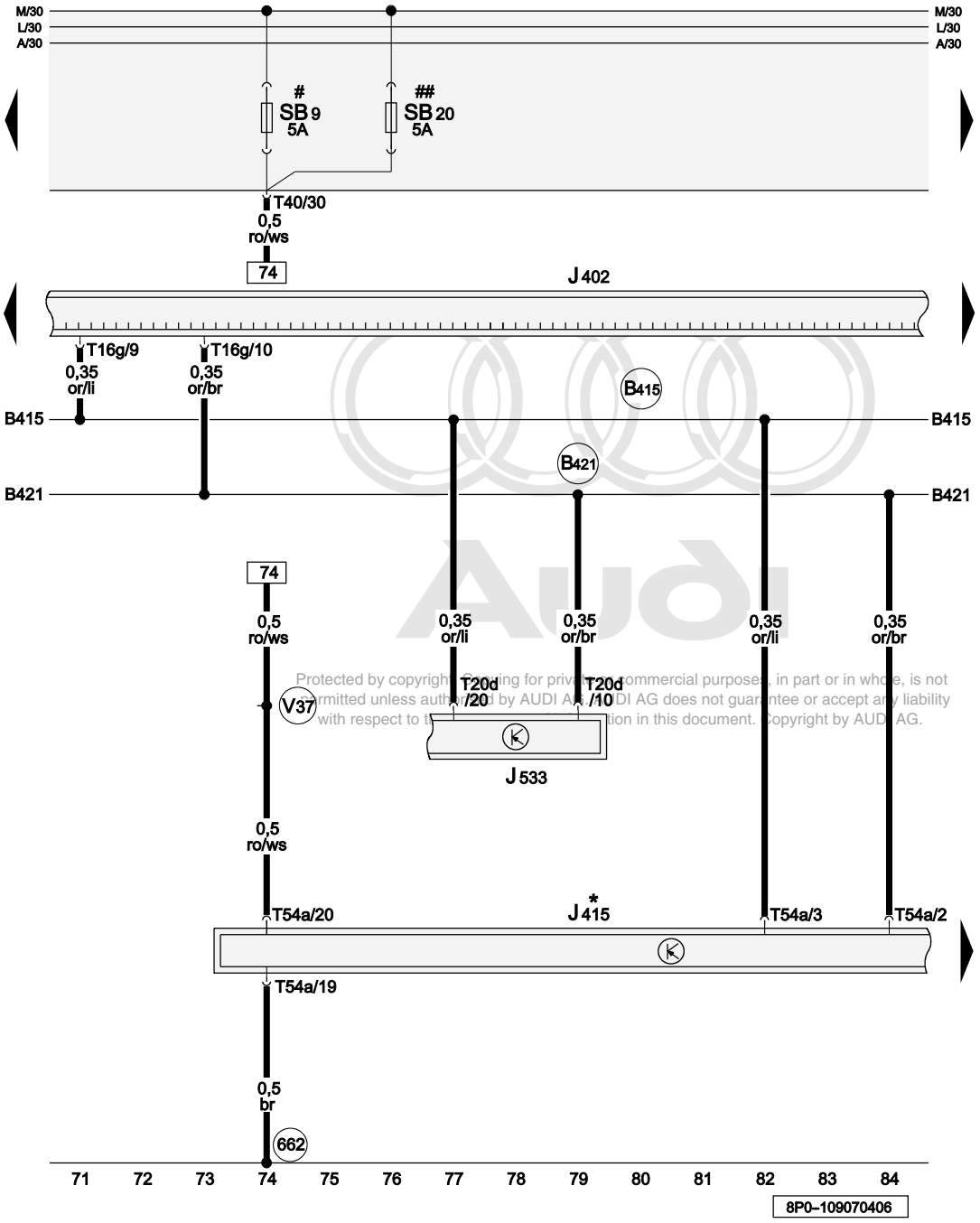


Amplifier with bass loudspeaker, on left in luggage compartment

J402	Navigation operating electronics control unit
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder B
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
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gn	=	green
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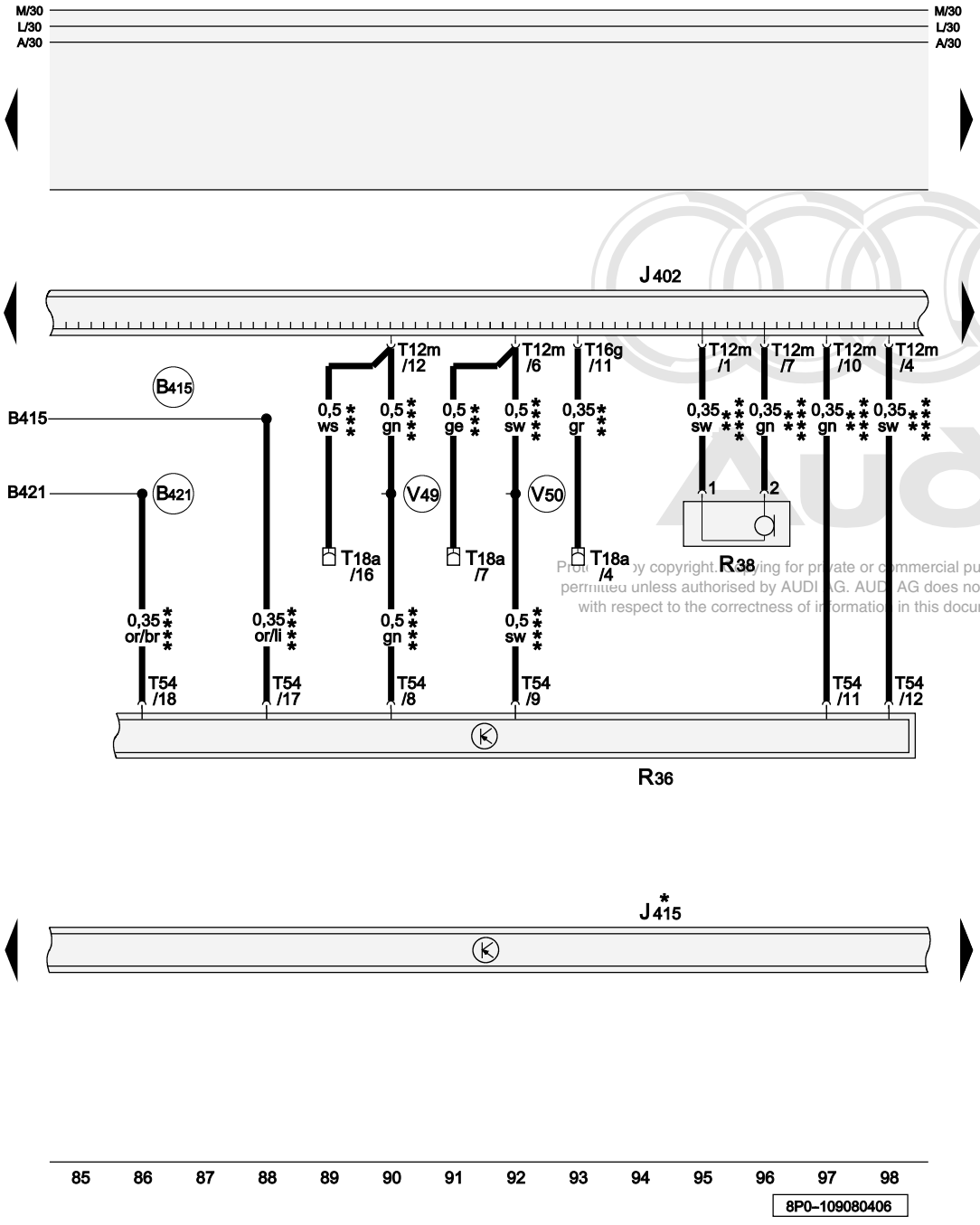


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Infotainment CAN bus, data bus diagnostic interface

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
J533	Data bus diagnostic interface
SB9	Fuse 9 on fuse holder B
SB20	Fuse 20 on fuse holder B
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T54a	54-pin connector, black (connector A)
662	Earth point, rear left side panel
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V37	Positive connection (30), in communication wiring harness
*	for models with TV tuner only
#	for models with electronics box low only ⇒ Fitting Locations
##	for models with electronics box high only ⇒ Fitting Locations

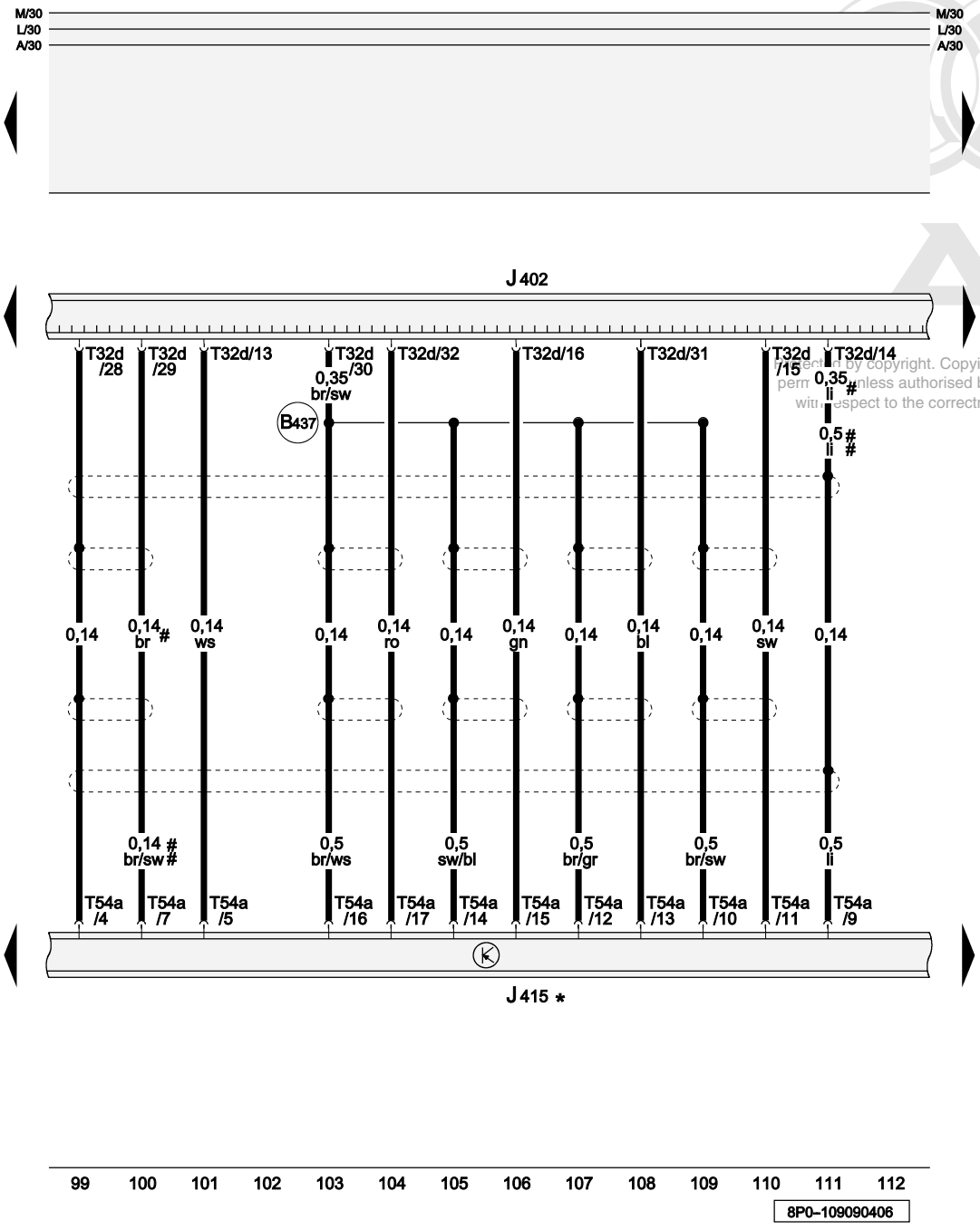


Infotainment CAN bus, telephone microphone

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R36	Telephone transmitter and receiver unit
R38	Telephone microphone
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T18a	18-pin connector, black, near glove compartment (connector A)
T54	54-pin connector, black (connector A)
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with TV tuner only
**	for models with voice control only
***	only preparation for mobile telephone without hands-free system
****	only preparation for mobile telephone with hands-free system

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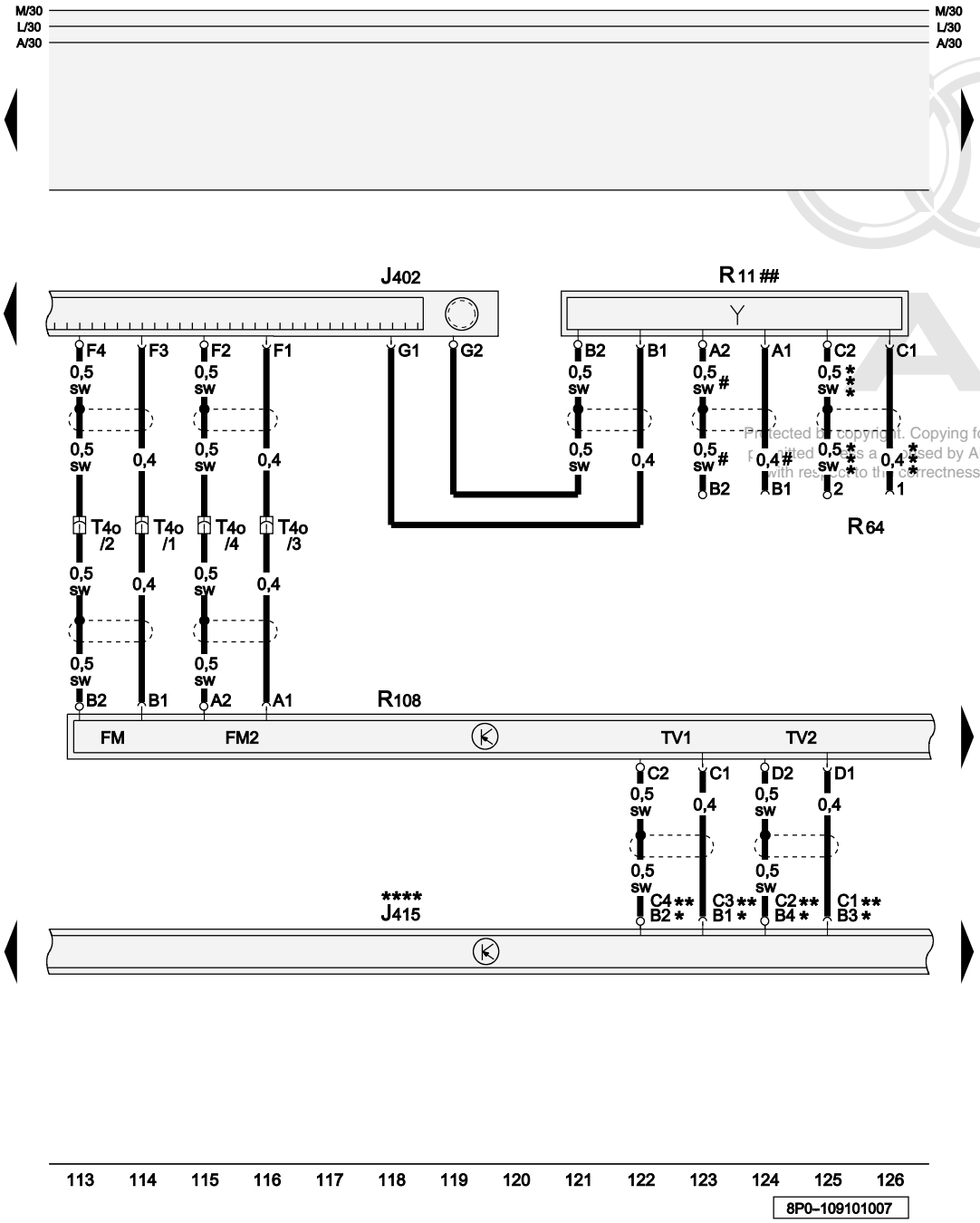


Navigation system tuner for TV

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
T32d	32-pin connector, grey (connector E)
T54a	54-pin connector, black (connector A)
B437	Connection 1 (GND), in main wiring harness
*	for models with TV tuner only
#	is dropped, from model year 2006
##	applicable from model year 2006

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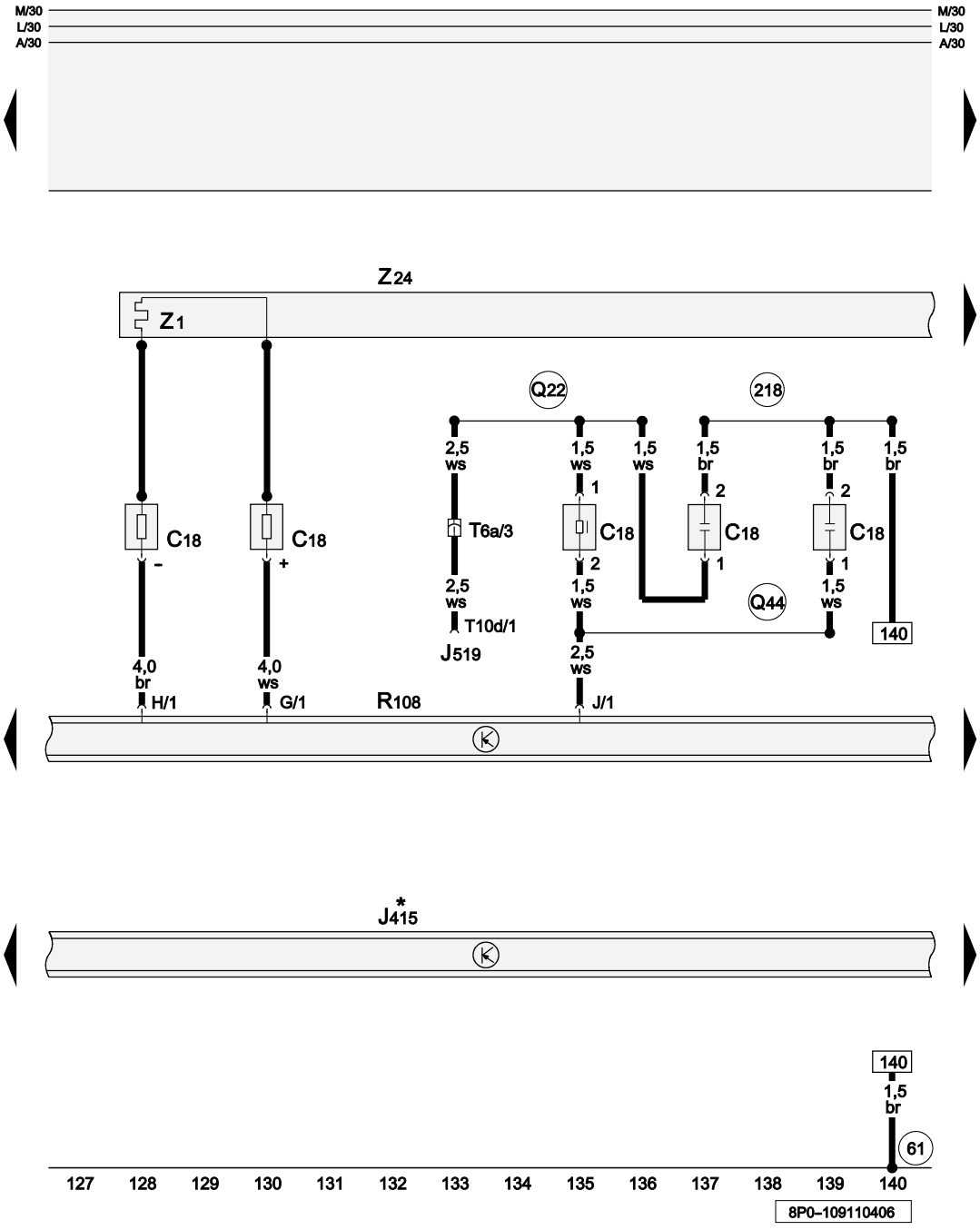


Left aerial module, roof aerial

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R11	Aerial
R64	Remote control receiver for auxiliary heating
R108	Left aerial module
T4o	4-pin connector, near C-pillar right
*	for models with analog TV tuner only
**	for models with hybrid TV tuner only
***	for models with auxiliary heating only
****	for models with TV tuner only
#	for models with preparation for mobile telephone only
##	R11 is replaced by R66

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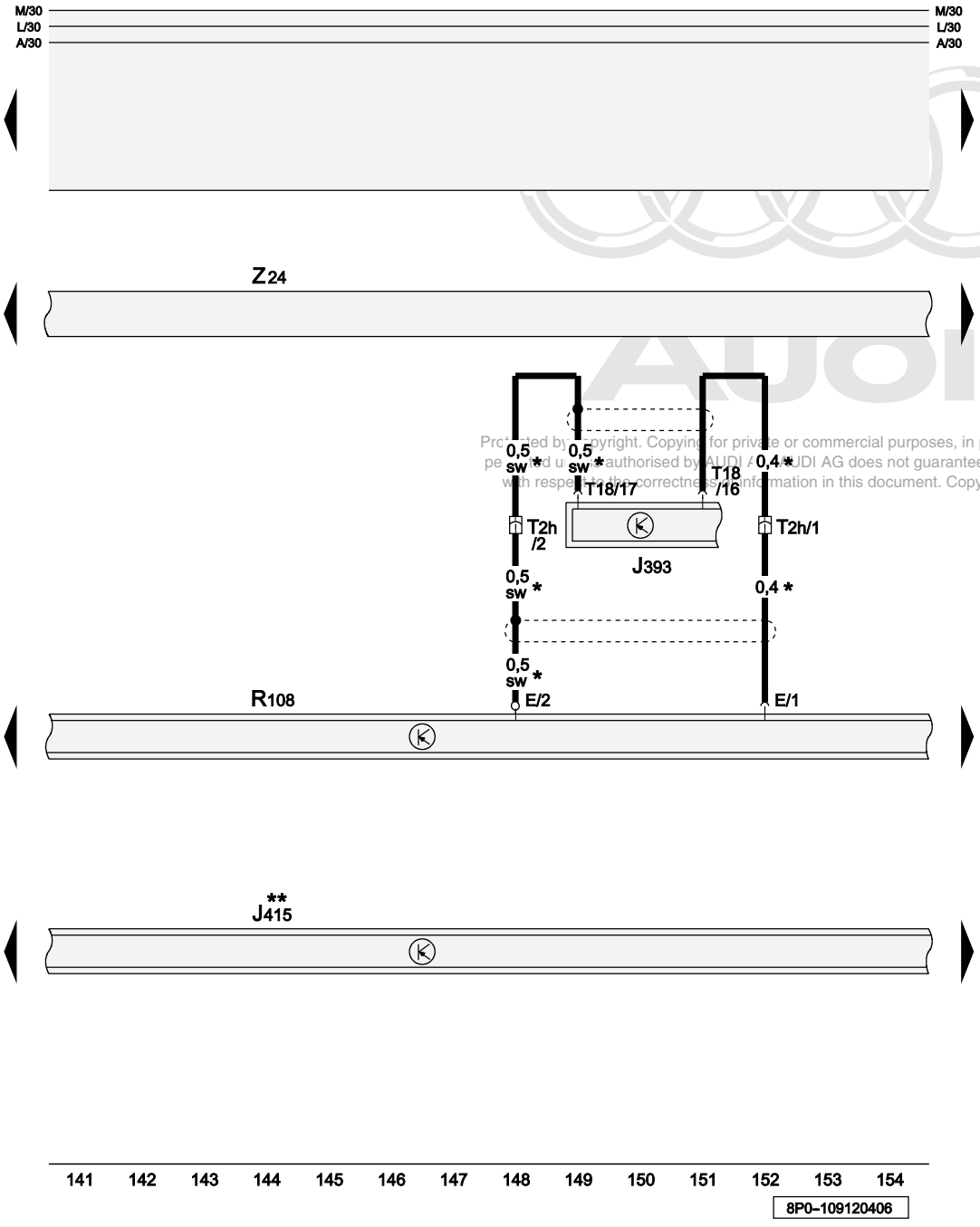


Left aerial module, heated rear window with window aerial

C18	Window aerial suppression filter
J415	Navigation system tuner for TV
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point in left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness
*	for models with TV tuner only

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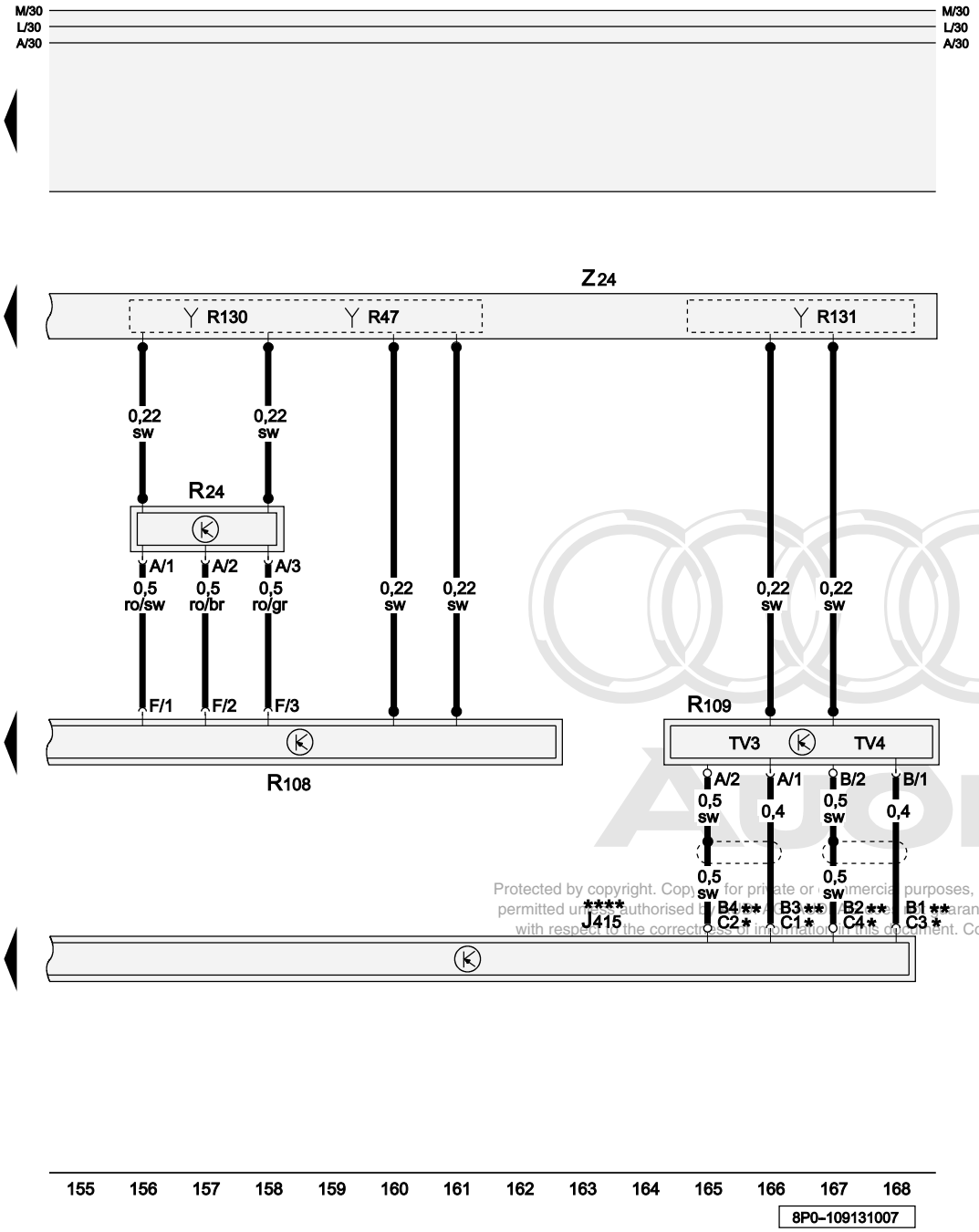


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Left aerial module, convenience system central control unit

J393	Convenience system central control unit
J415	Navigation system tuner for TV
R108	Left aerial module
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only
**	for models with TV tuner only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



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Rear window aerial 1, rear window aerial 2

J415	Navigation system tuner for TV
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R109	Right aerial module
R130	Rear window aerial 1
R131	Rear window aerial 2
Z24	Heated rear window with window aerial
*	for models with analog TV tuner only
**	for models with hybrid TV tuner only
****	for models with TV tuner only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Radio and navigation system RNS-E with Bose sound system

from model year 2007

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

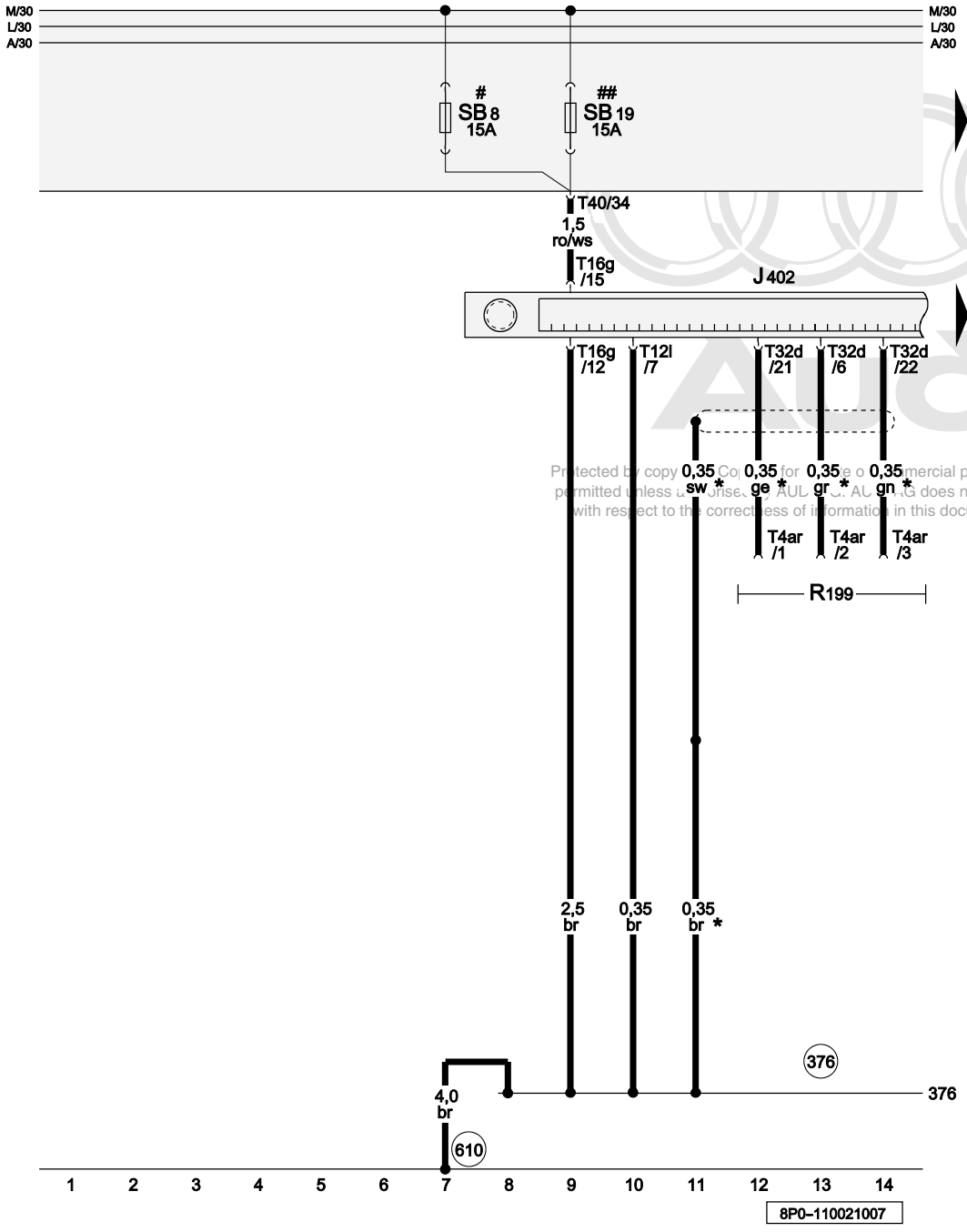
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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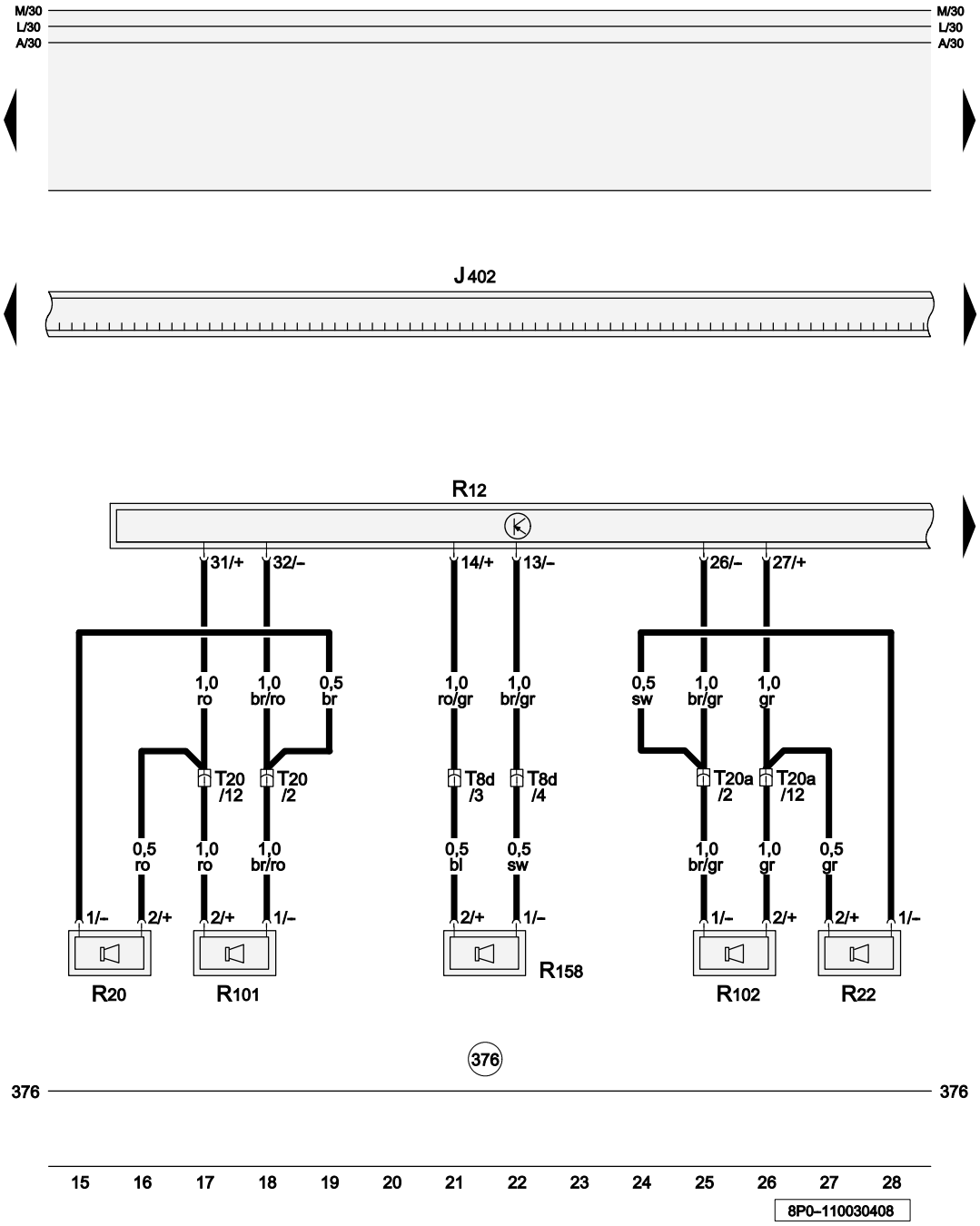


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Fuses on fuse holder

J402	Navigation operating electronics control unit
R199	Connection for external audio source
SB8	Fuse 8 on fuse holder B
SB19	Fuse 19 on fuse holder B
T4ar	4-pin connector
T12l	12-pin connector, blue (connector B)
T16g	16-pin connector, black (connector D)
T32d	32-pin connector, grey (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
*	for models with connection for external audio source only
#	for models with electronics box low only ⇒ Fitting Locations
##	for models with electronics box high only ⇒ Fitting Locations

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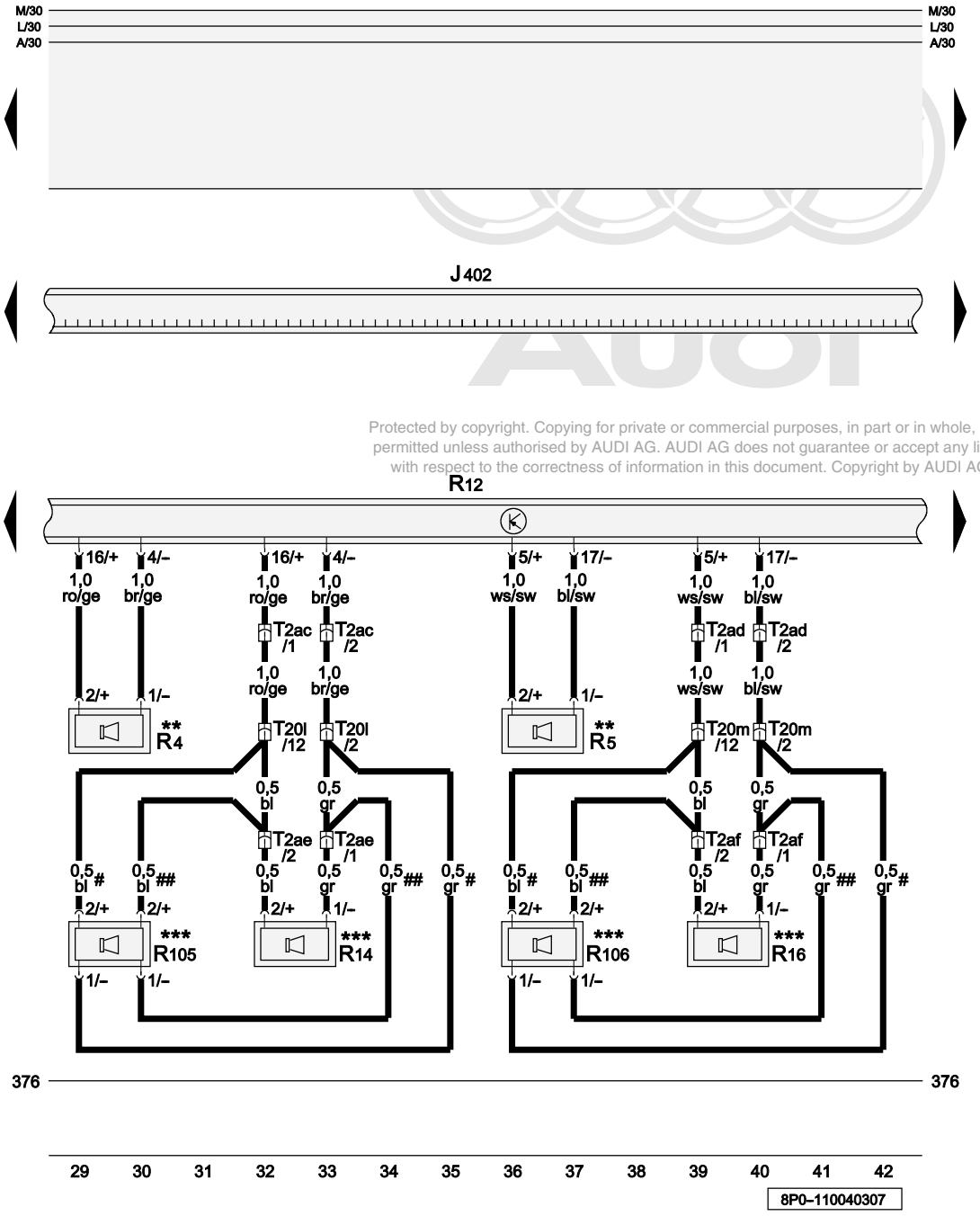


Front loudspeaker

J402	Navigation operating electronics control unit
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
(376)	Earth connection 11, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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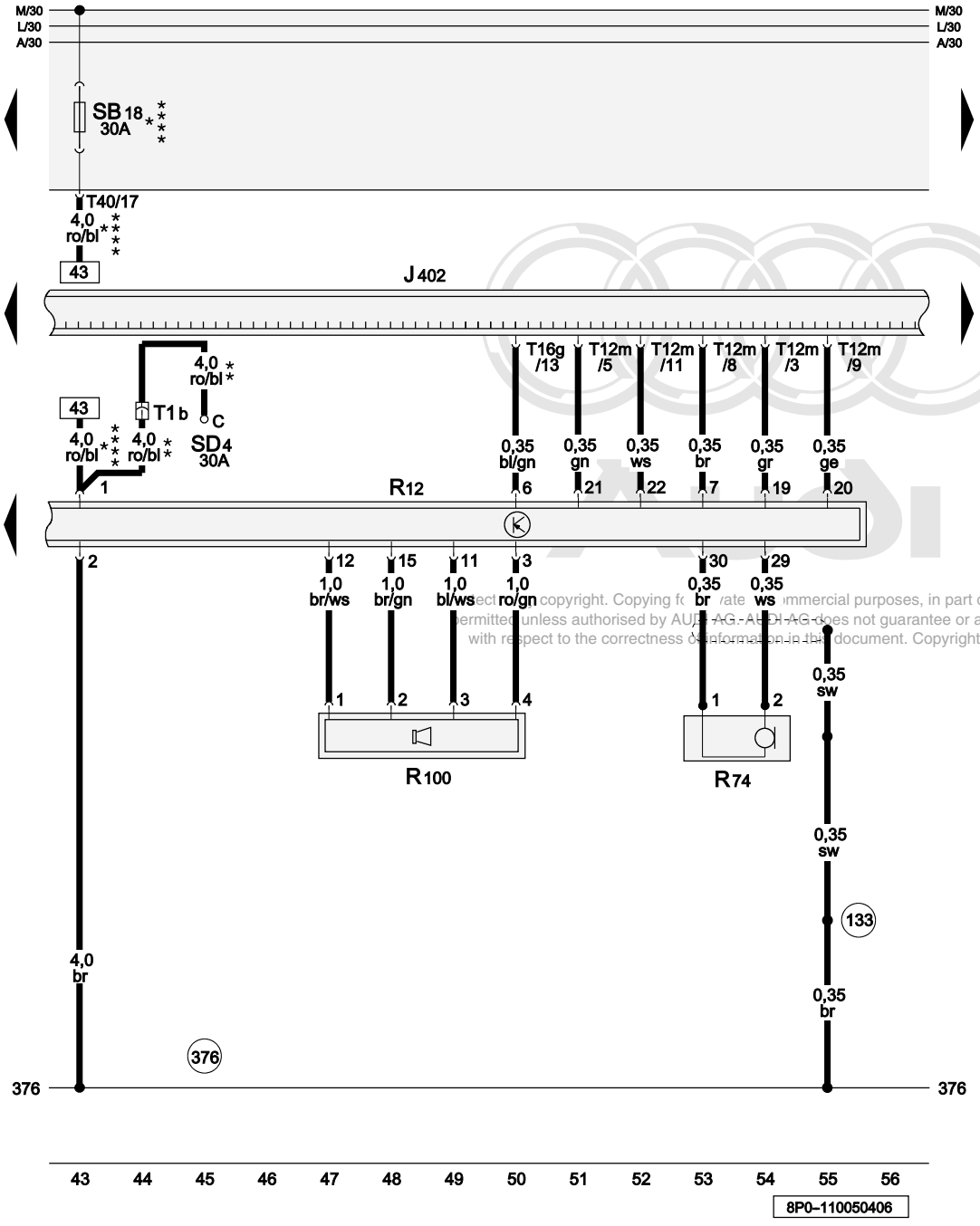


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Rear loudspeaker

J402	Navigation operating electronics control unit
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
**	for models with 3-door models only
***	for models with 5-door models only
#	phased-in modification
##	No longer fitted, phased-in modification

ws	=	white
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gn	=	green
bl	=	blue
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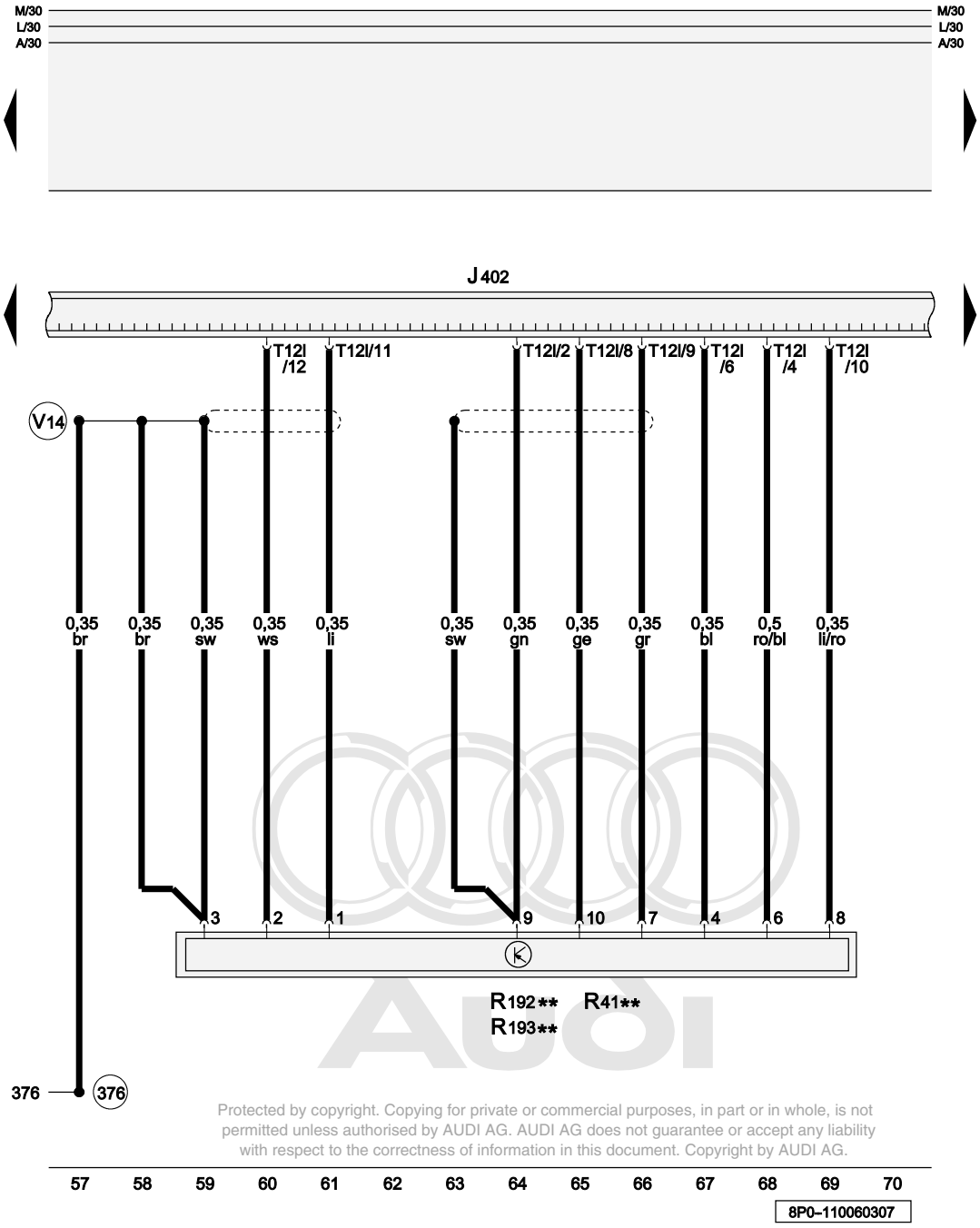


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rs = pink

Bass loudspeaker, iternal microphone

J402	Navigation operating electronics control unit
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder B
SD4	Fuse 4 on fuse holder D
T1b	Single connector, black, on left C-pillar
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(133)	Earth connection, in loudspeaker wiring harness
(376)	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	only for models with battery in luggage compartment, is dropped, from November 2005
****	applicable from November 2005 for models with battery in engine compartment and luggage compartment

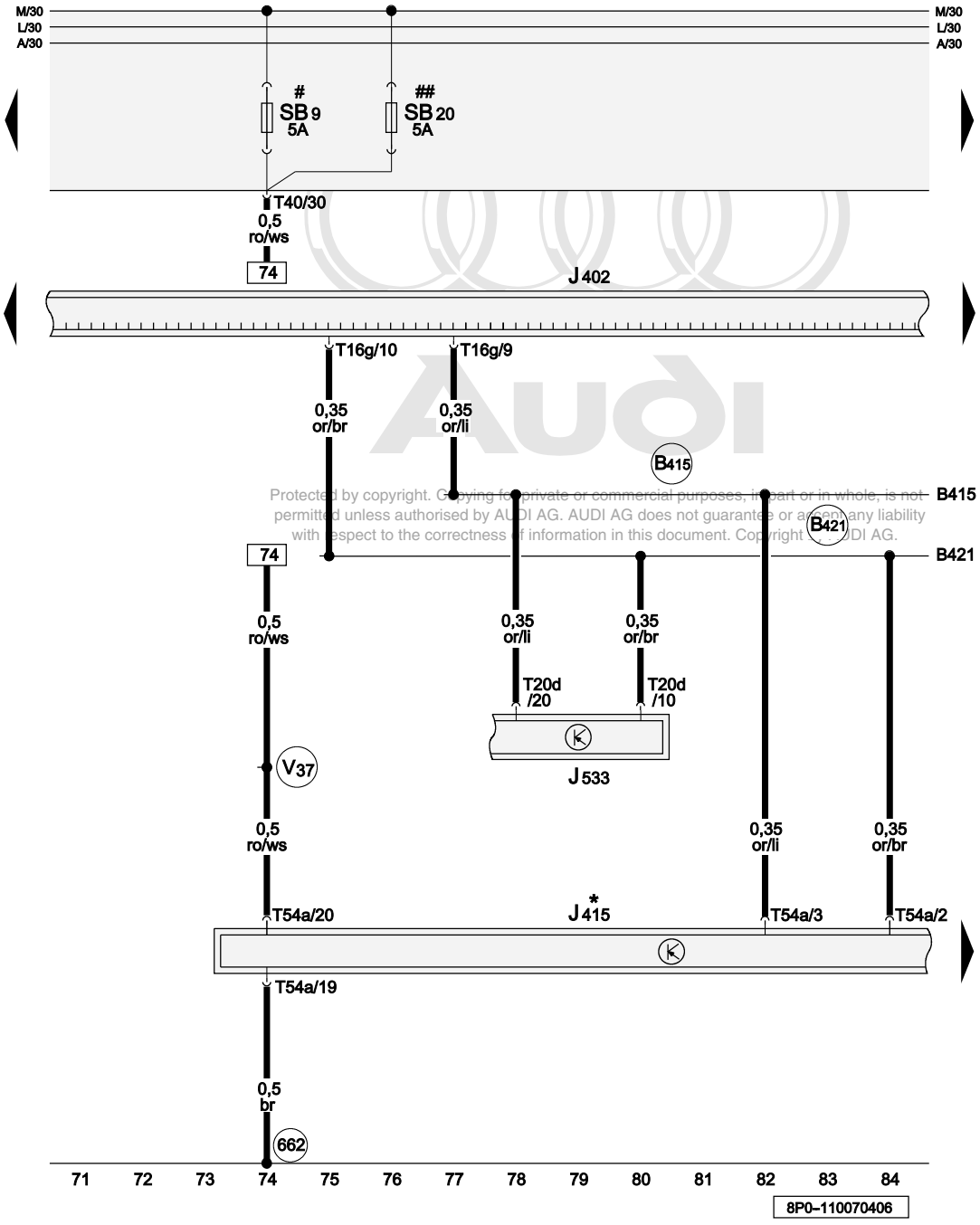


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CD changer, iPod holder, USB connection retainer

J402	Navigation operating electronics control unit
R41	CD changer
R192	iPod holder
R193	USB connection retainer
T12l	12-pin connector, blue (connector B)
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
**	for models with CD changer or iPod holder or USB connection retainer only

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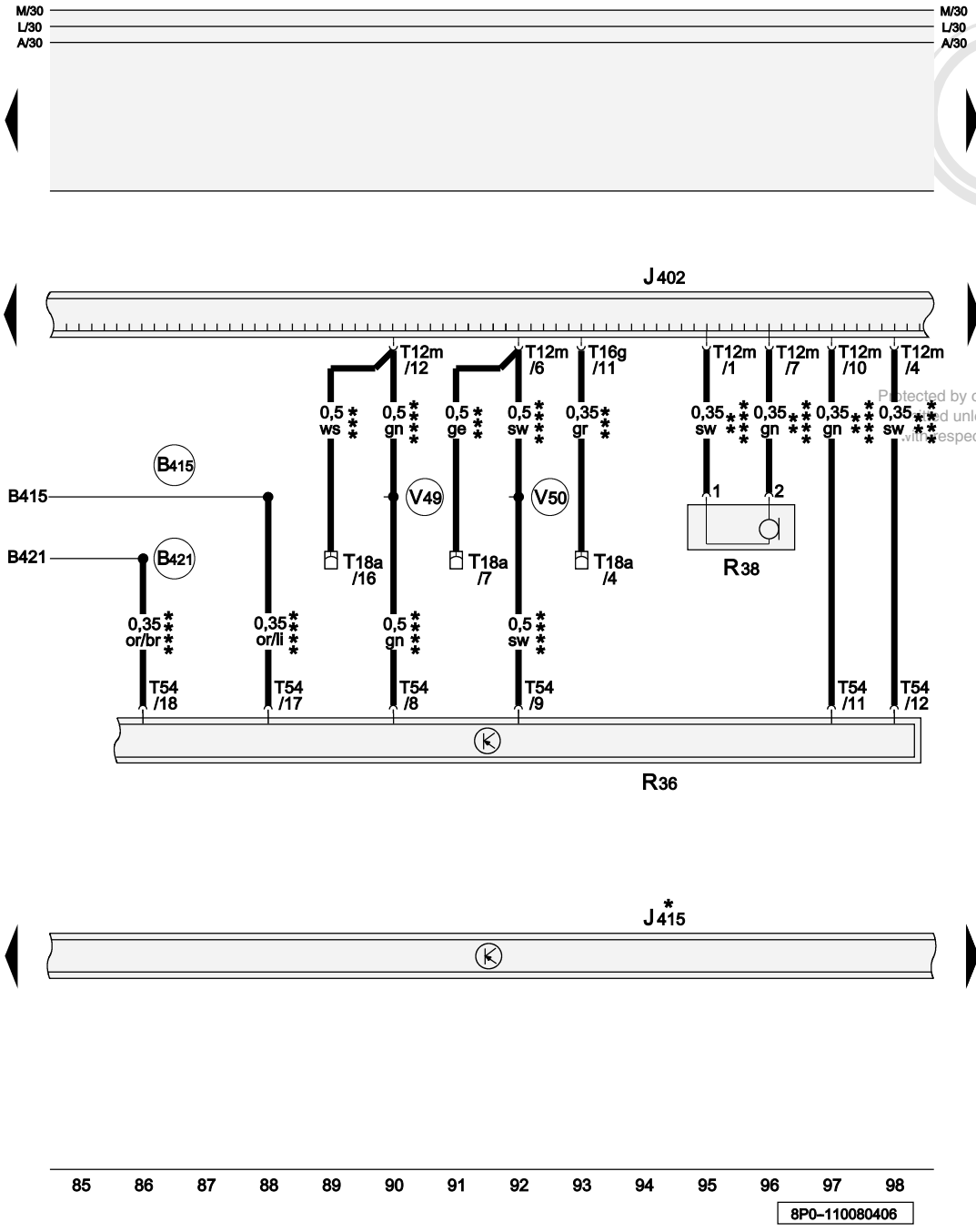


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bl = blue
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li = purple
ge = yellow
or = orange
rs = pink

Infotainment CAN bus, data bus diagnostic interface

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
J533	Data bus diagnostic interface
SB9	Fuse 9 on fuse holder B
SB20	Fuse 20 on fuse holder B
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T54a	54-pin connector, black (connector A)
662	Earth point, rear left side panel
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V37	Positive connection (30), in communication wiring harness
*	for models with TV tuner only
#	for models with electronics box low only ⇒ Fitting Locations
##	for models with electronics box high only ⇒ Fitting Locations



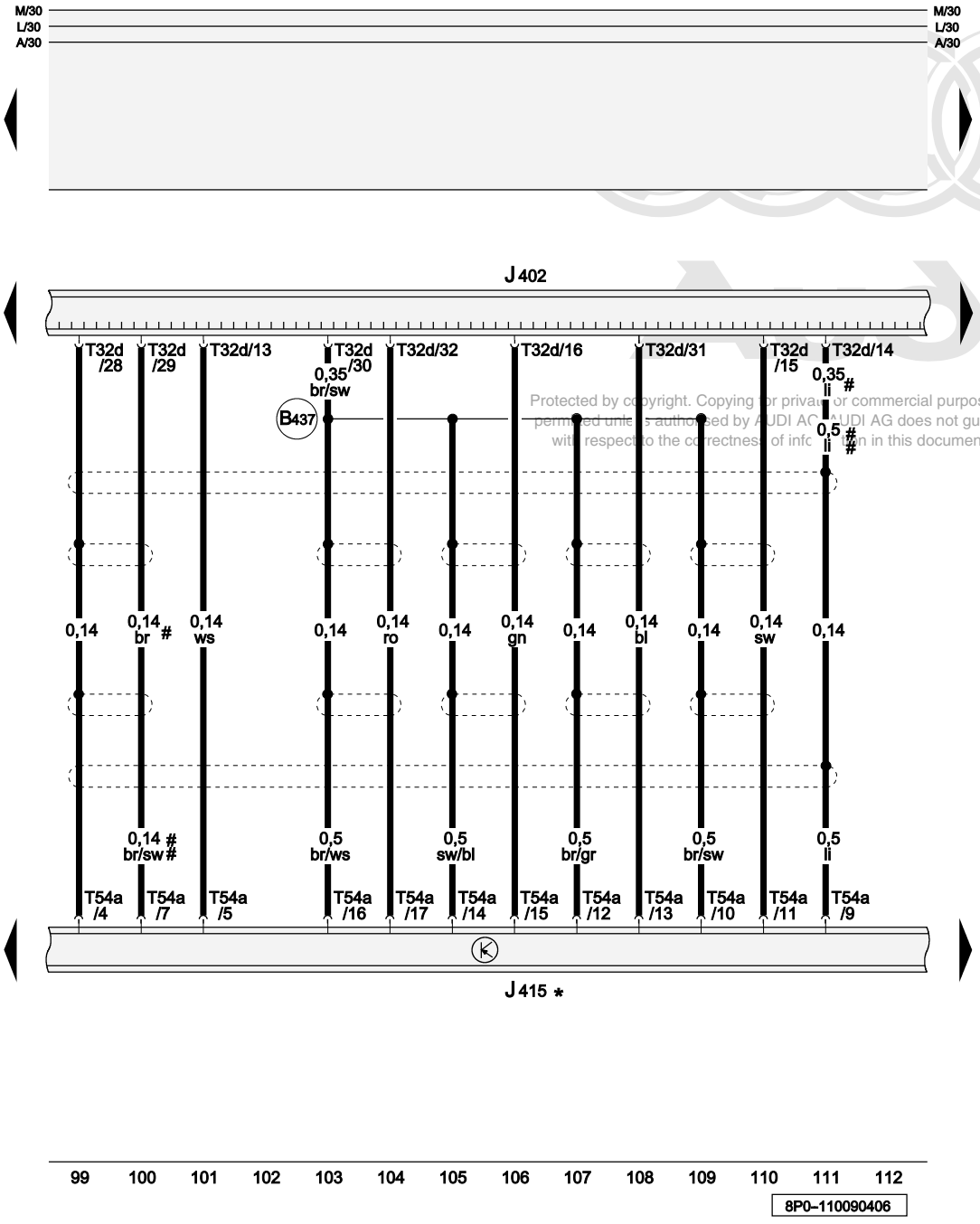
Infotainment CAN bus, telephone microphone

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R36	Telephone transmitter and receiver unit
R38	Telephone microphone
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T18a	18-pin connector, black, near glove compartment (connector A)
T54	54-pin connector, black (connector A)
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness

* for models with TV tuner only
** for models with voice control only
*** only preparation for mobile telephone without hands-free system
**** only preparation for mobile telephone with hands-free system

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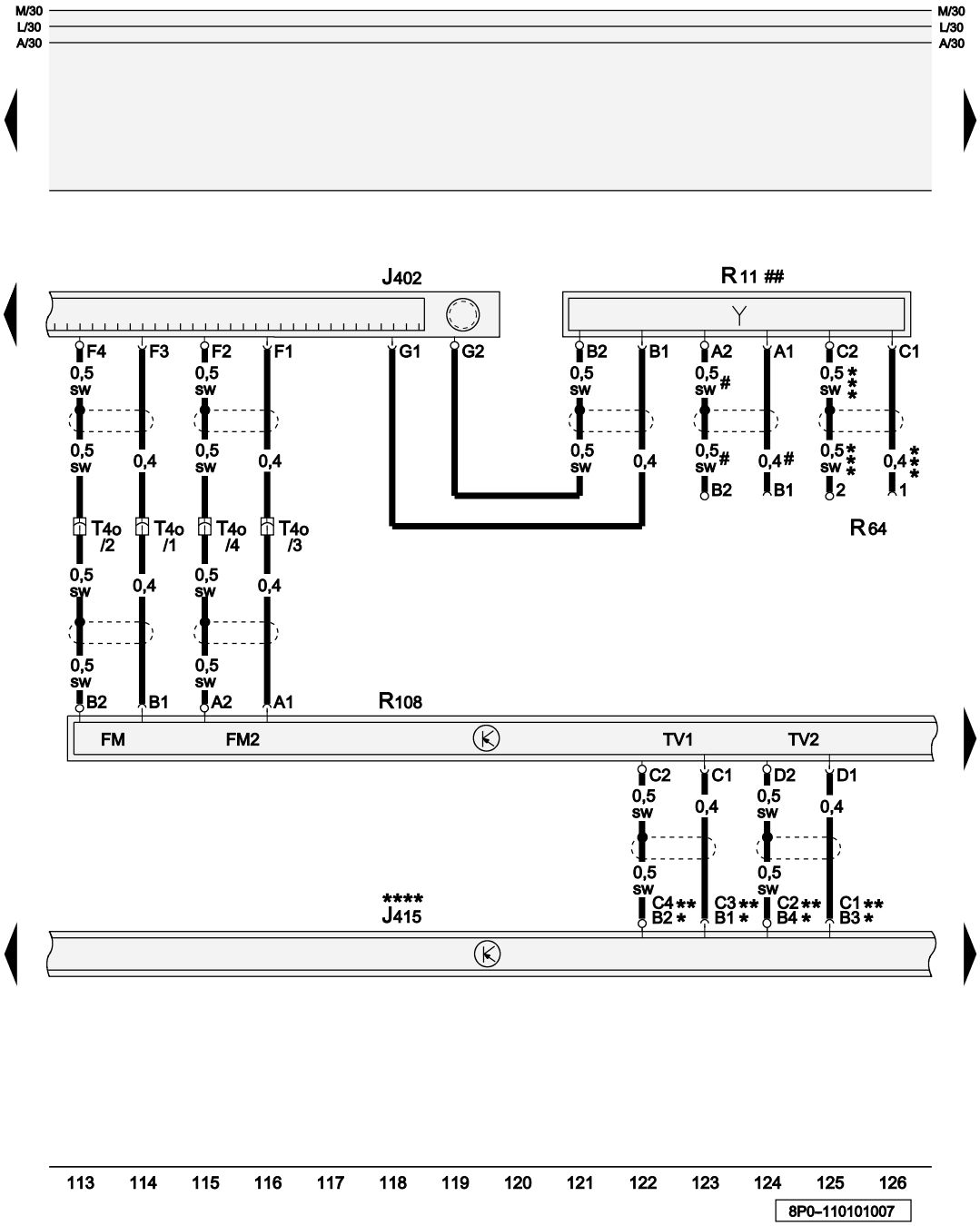


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Navigation system tuner for TV

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
T32d	32-pin connector, grey (connector E)
T54a	54-pin connector, black (connector A)
B437	Connection 1 (GND), in main wiring harness
*	for models with TV tuner only
#	is dropped, from model year 2006
##	applicable from model year 2006

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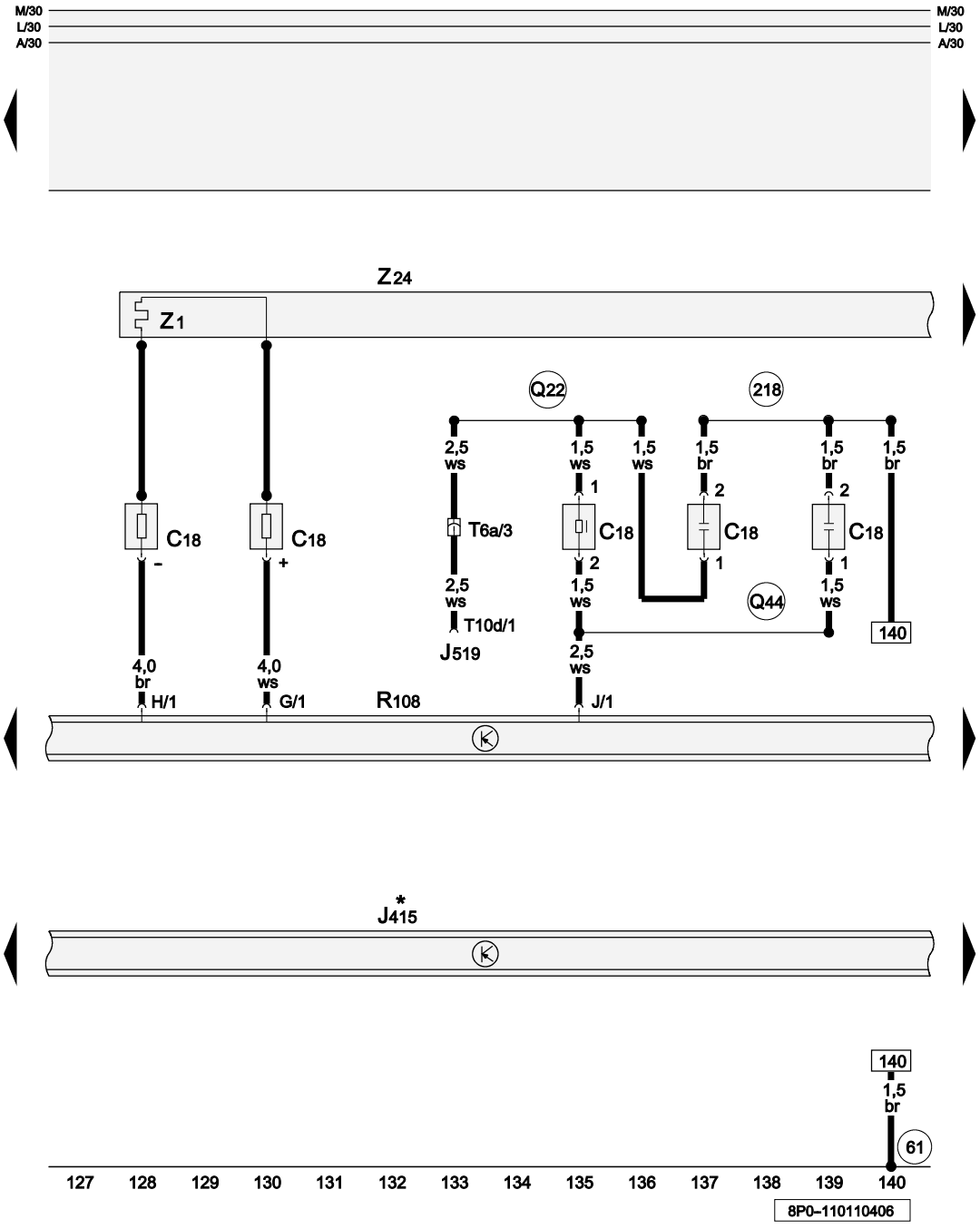


Left aerial module, roof aerial

J402	Navigation operating electronics control unit
J415	Navigation system tuner for TV
R11	Aerial
R64	Remote control receiver for auxiliary heating
R108	Left aerial module
T4o	4-pin connector, near C-pillar right
*	for models with analog TV tuner only
**	for models with hybrid TV tuner only
***	for models with auxiliary heating only
****	for models with TV tuner only
#	for models with preparation for mobile telephone only
##	R11 is replaced by R66

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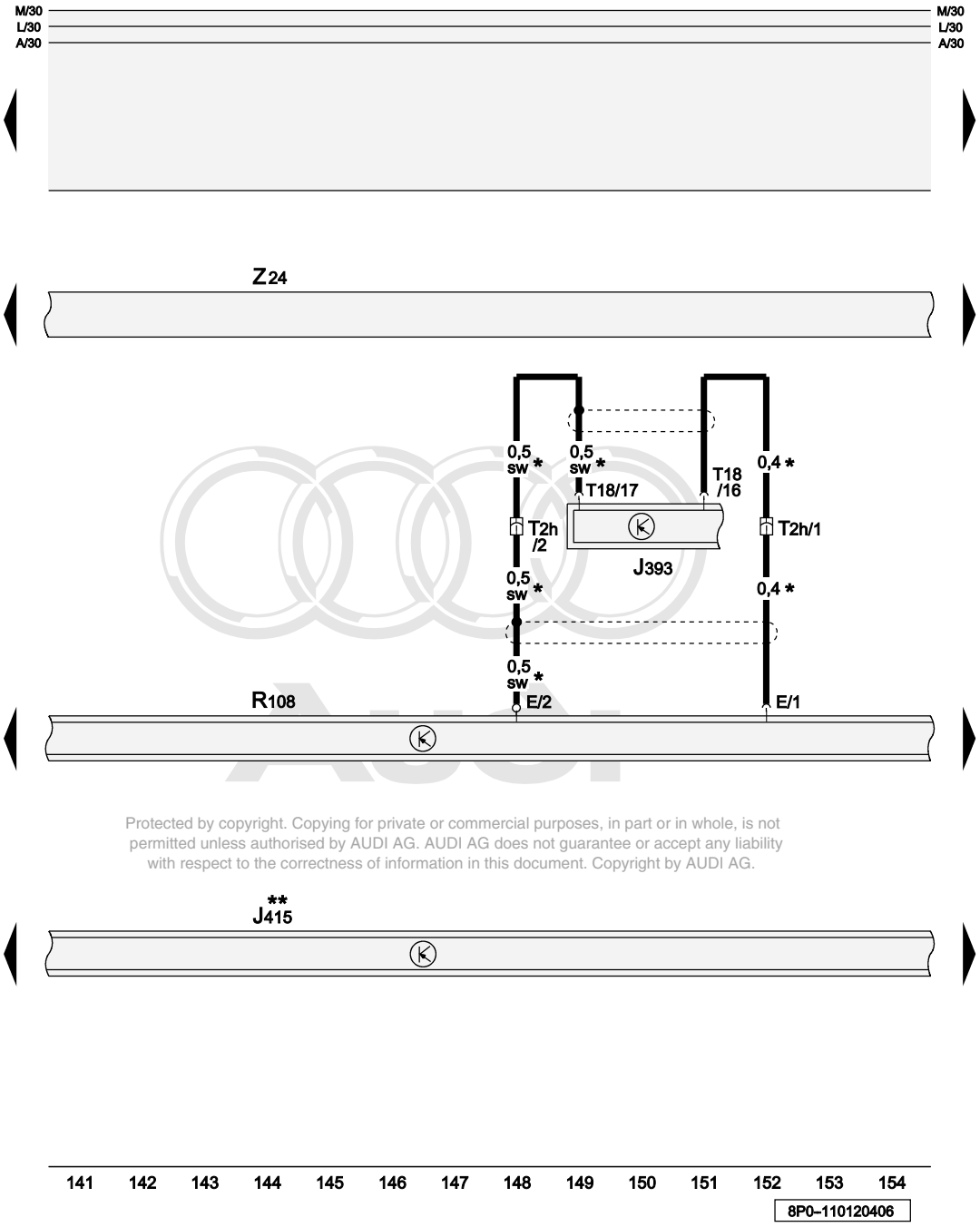


Left aerial module, heated rear window with window aerial

C18	Window aerial suppression filter
J415	Navigation system tuner for TV
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point in left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness
*	for models with TV tuner only

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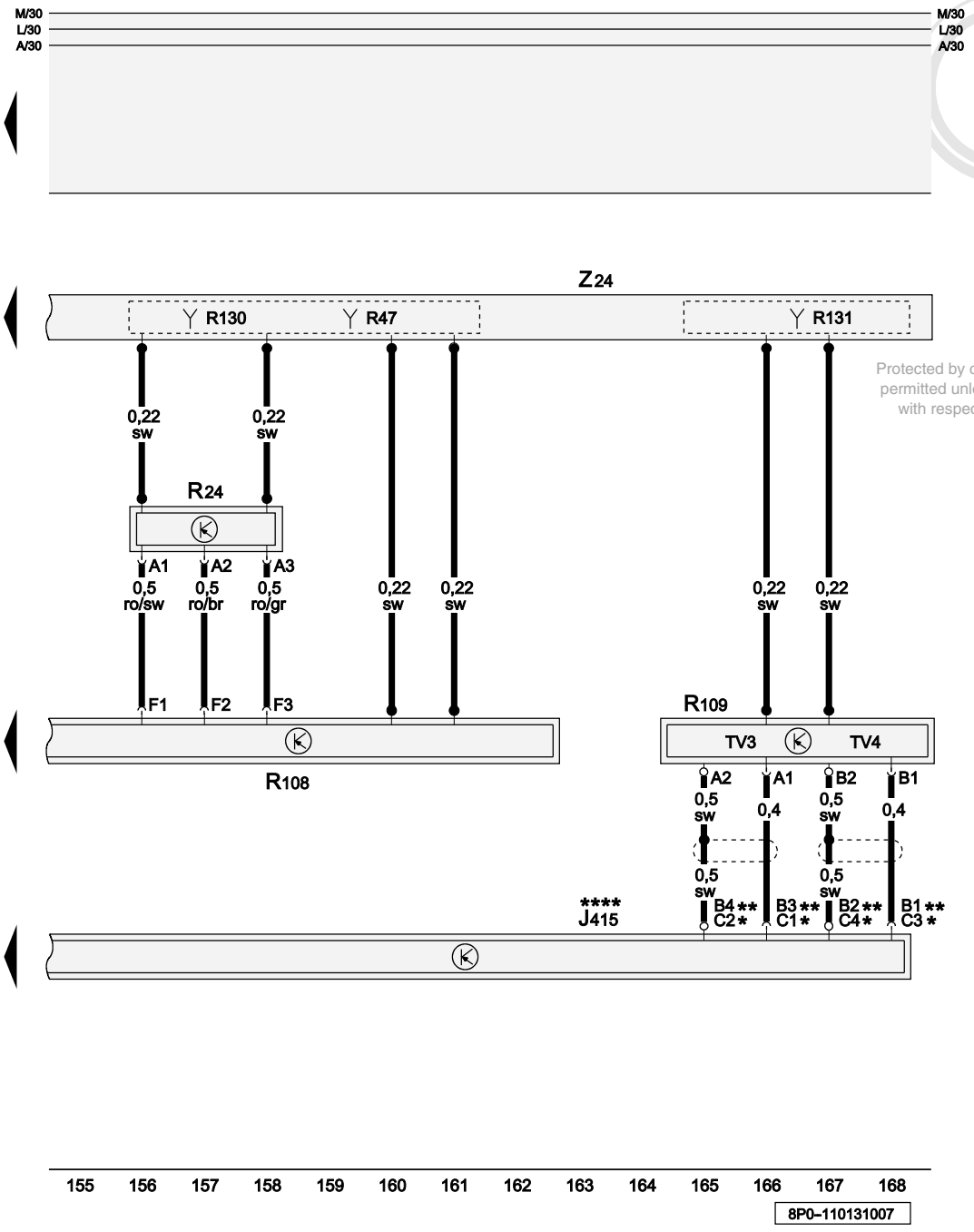


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Convenience system central control unit, left aerial module

J393	Convenience system central control unit
J415	Navigation system tuner for TV
R108	Left aerial module
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only
**	for models with TV tuner only

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Rear window aerial 1, rear window aerial 2

J415	Navigation system tuner for TV
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R109	Right aerial module
R130	Rear window aerial 1
R131	Rear window aerial 2
Z24	Heated rear window with window aerial
*	for models with analog TV tuner only
**	for models with hybrid TV tuner only
****	for models with TV tuner only

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3.2 l Fuel injection engine (184 kW - Motronic - 6 cylinder), engine code BMJ, BUB

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

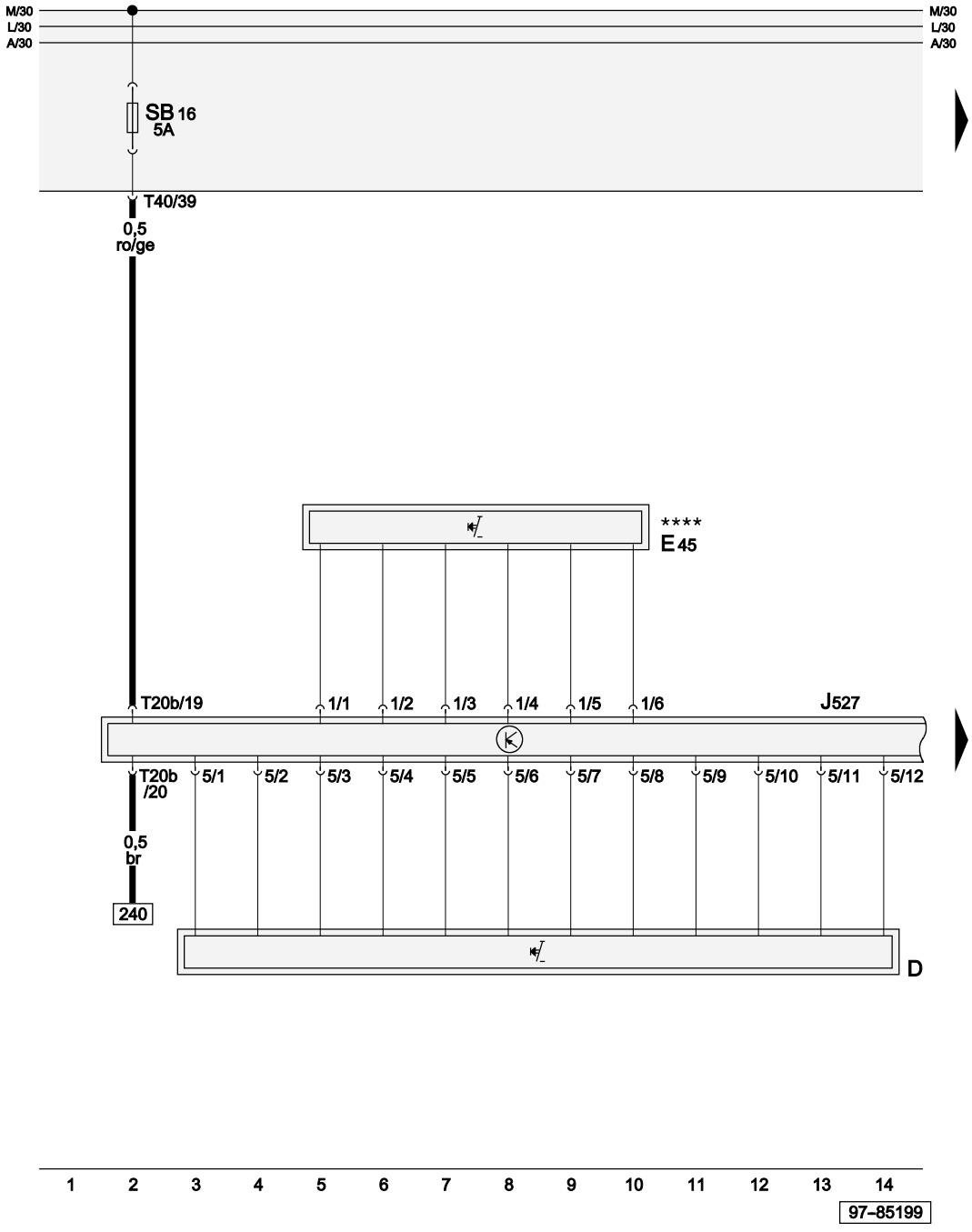
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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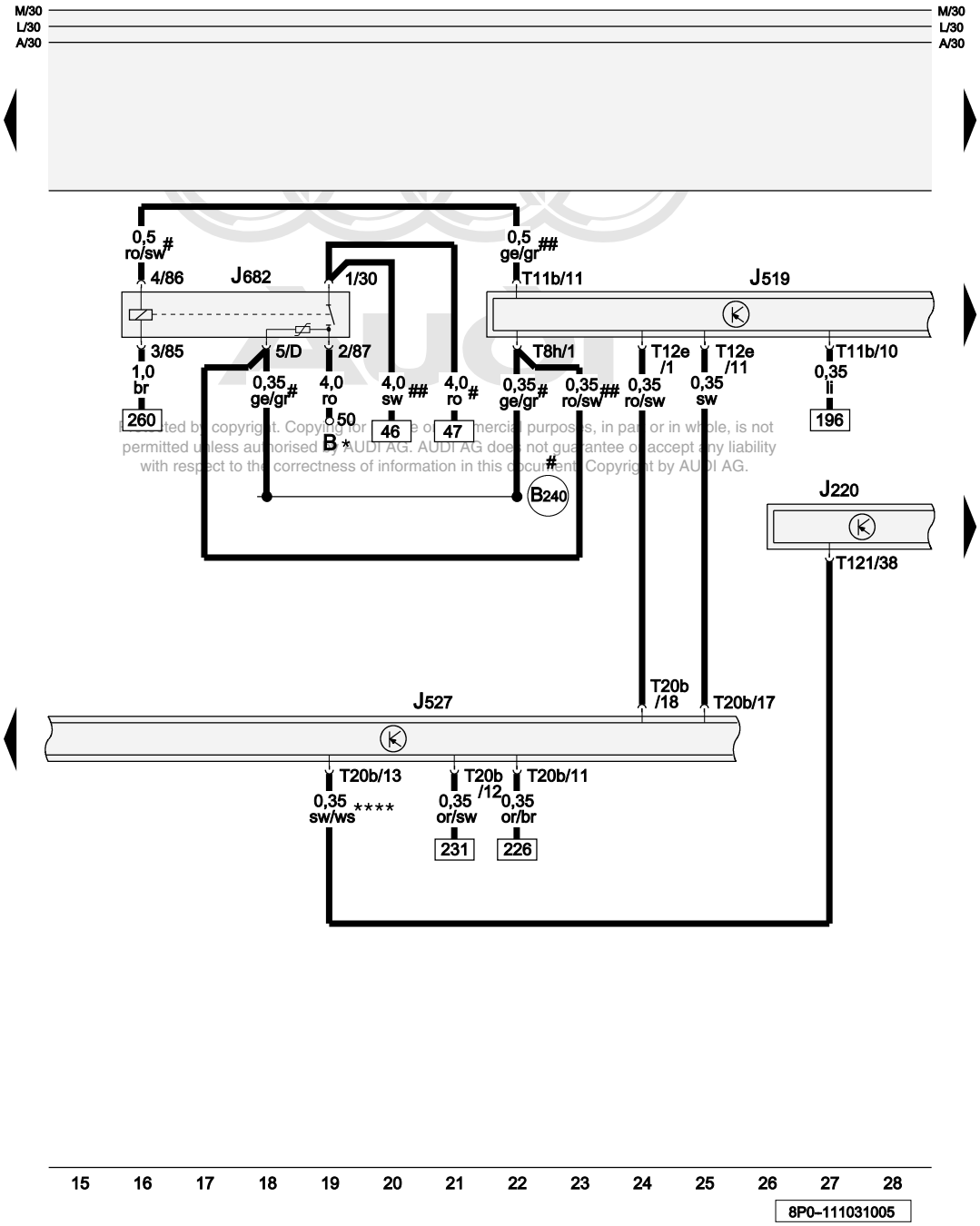


Cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J527	Steering column electronics control unit
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
****	for models with cruise control system only

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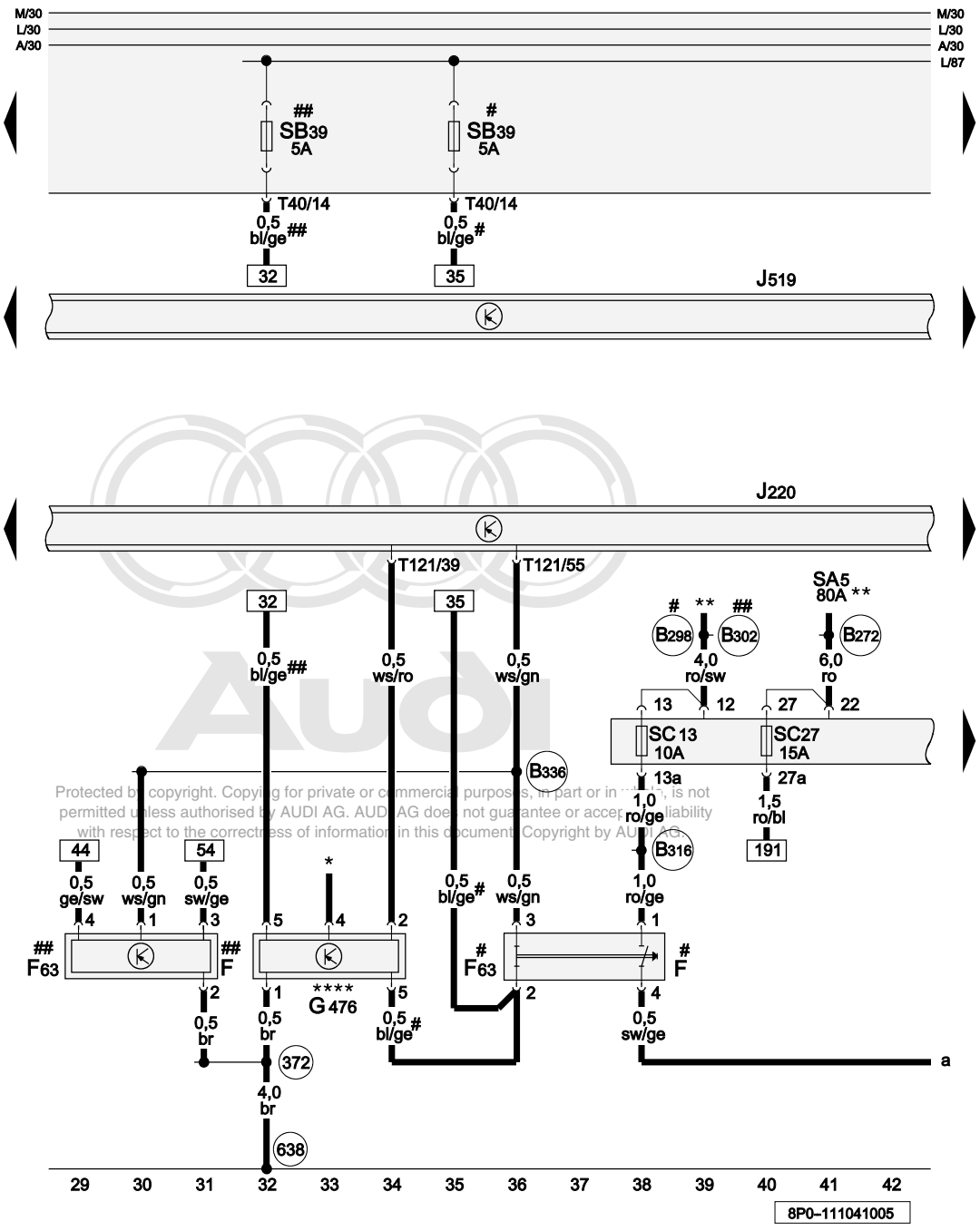


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Terminal 50 voltage supply relay

B	Starter
J220	Motronic control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T121	121-pin connector, black, on engine control unit
B240	Positive connection 2 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
****	for models with cruise control system only
#	Is dropped from November 2005
##	applicable from November 2005

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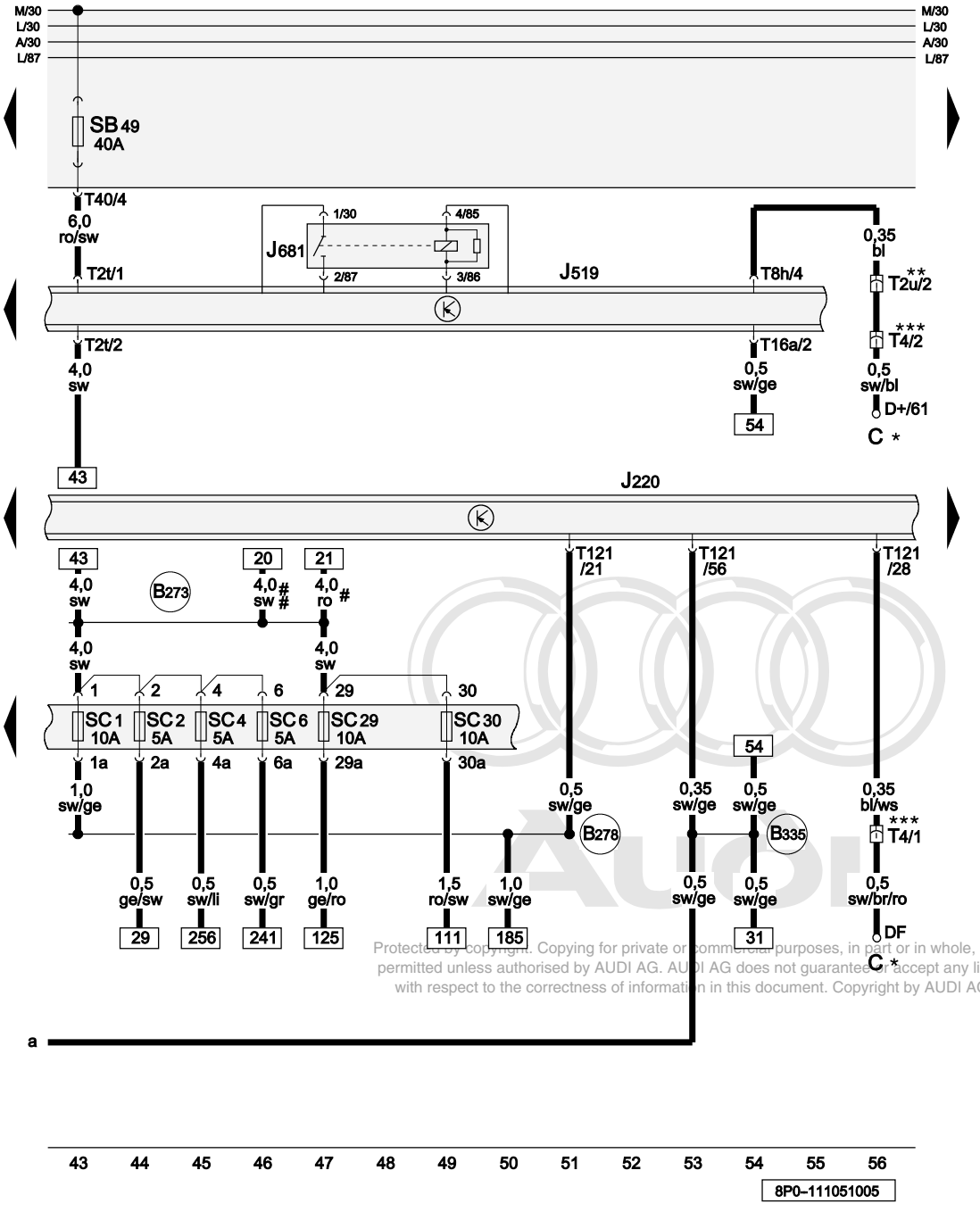


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Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
J519	Onboard supply control unit
SA5	Fuse 5 on fuse holder A
SB39	Fuse 39 on fuse holder B
SC13	Fuse 13 on fuse holder C
SC27	Fuse 27 on fuse holder C
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B302	Positive connection 6 (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B336	Connection 2 (54), in main wiring harness
*	for models with US equipment only, ⇒ applicable Current Flow Diagram basic equipment
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
****	for models with manual gearbox only
#	Is dropped from November 2005
##	applicable from November 2005

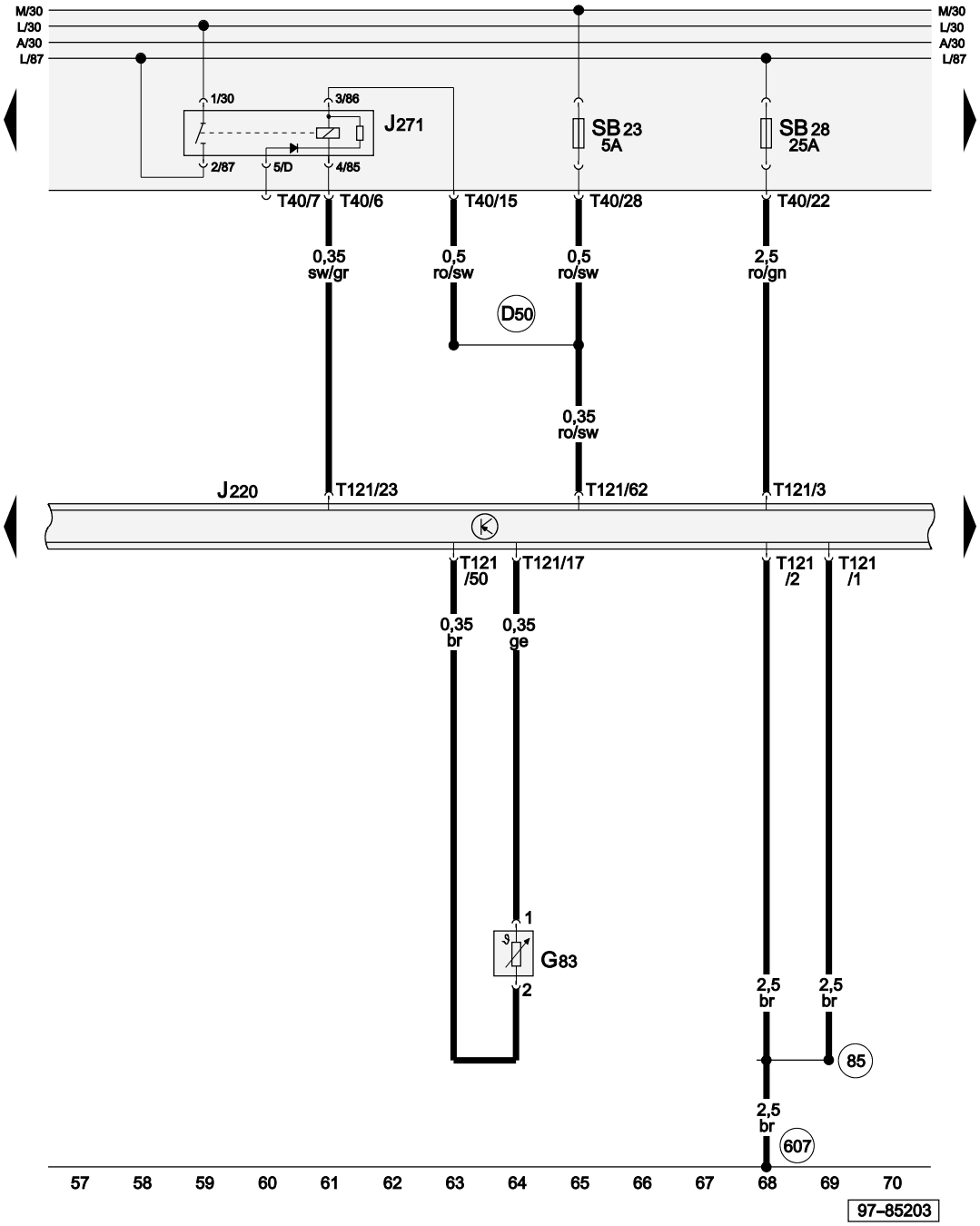


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Terminal 15 voltage supply relay 2

C	Alternator
J220	Motronic control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC6	Fuse 6 on fuse holder C
SC29	Fuse 29 on fuse holder C
SC30	Fuse 30 on fuse holder C
T2t	2-pin connector, black (connector L)
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
#	Is dropped from November 2005
##	applicable from November 2005

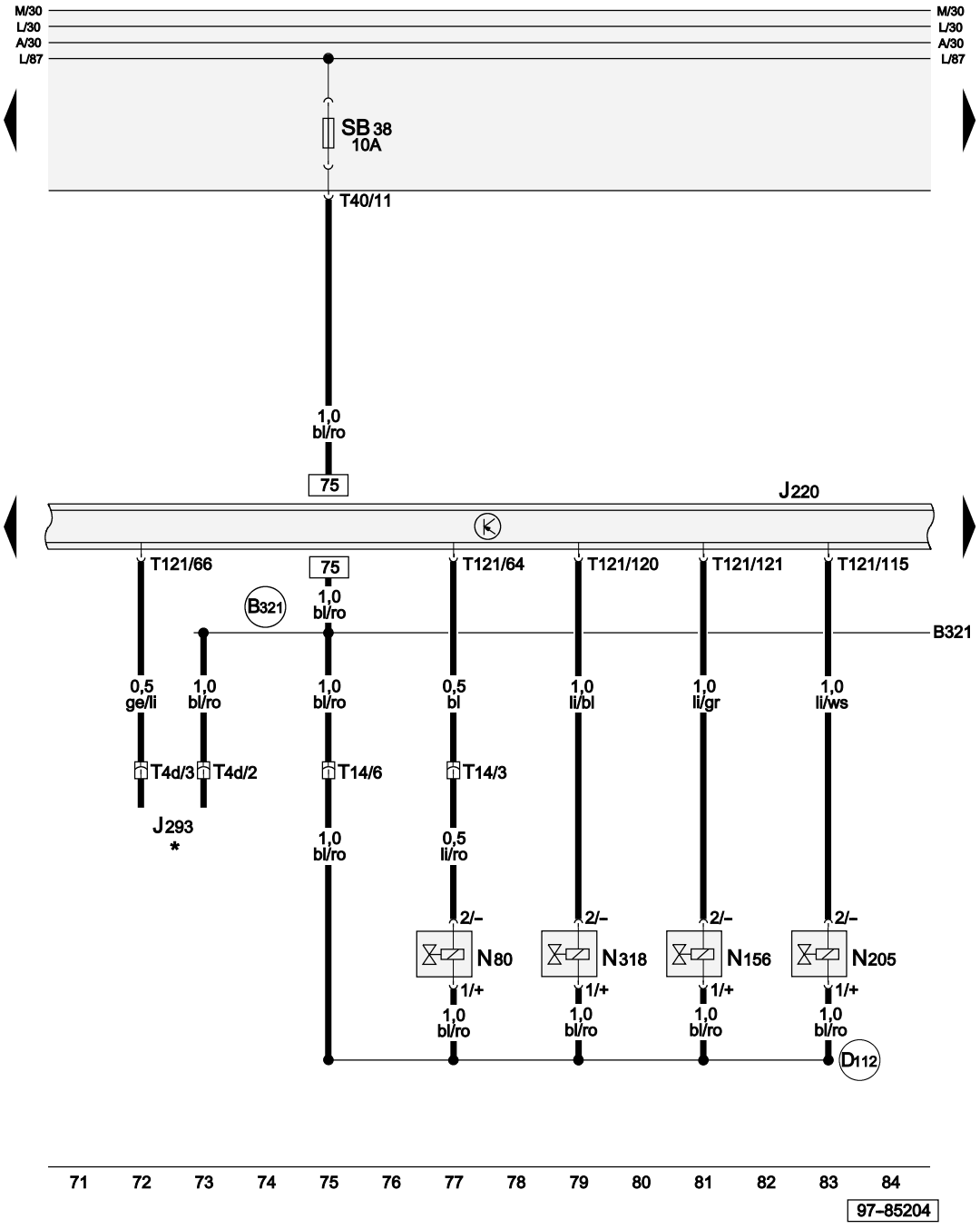


Motronic current supply relay, radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J220	Motronic control unit
J271	Motronic current supply relay
SB23	Fuse 23 on fuse holder B
SB28	Fuse 28 on fuse holder B
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
85	Earth connection 1, in engine compartment wiring harness
607	Earth point, on left in plenum chamber
D50	Positive connection (30), in engine compartment wiring harness

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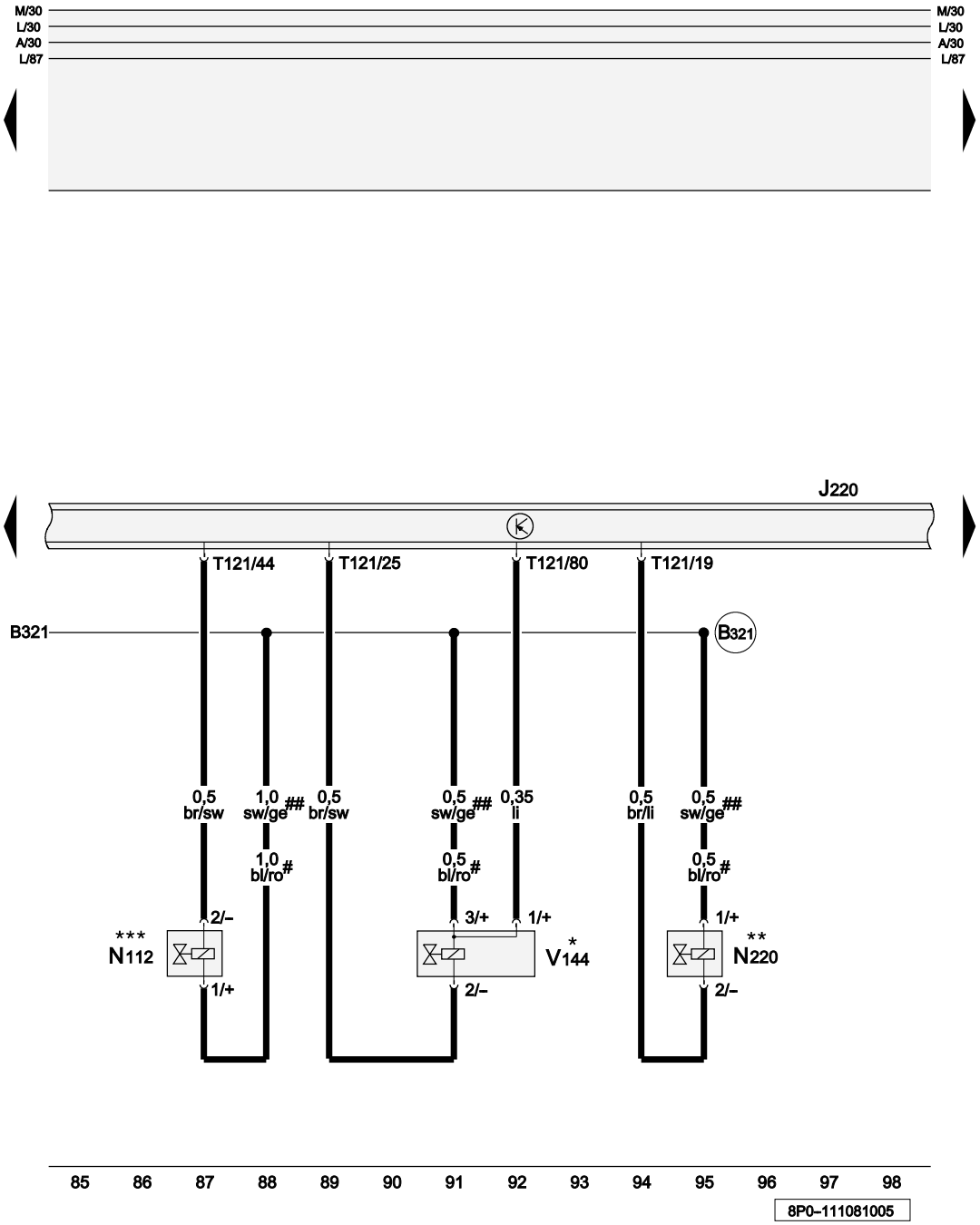


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Active charcoal filter system solenoid valve 1, variable intake manifold change-over valve, inlet camshaft control valve

J220	Motronic control unit
J293	Radiator fan control unit
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
N318	Exhaust camshaft control valve 1
SB38	Fuse 38 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
B321	Positive connection 7 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan control

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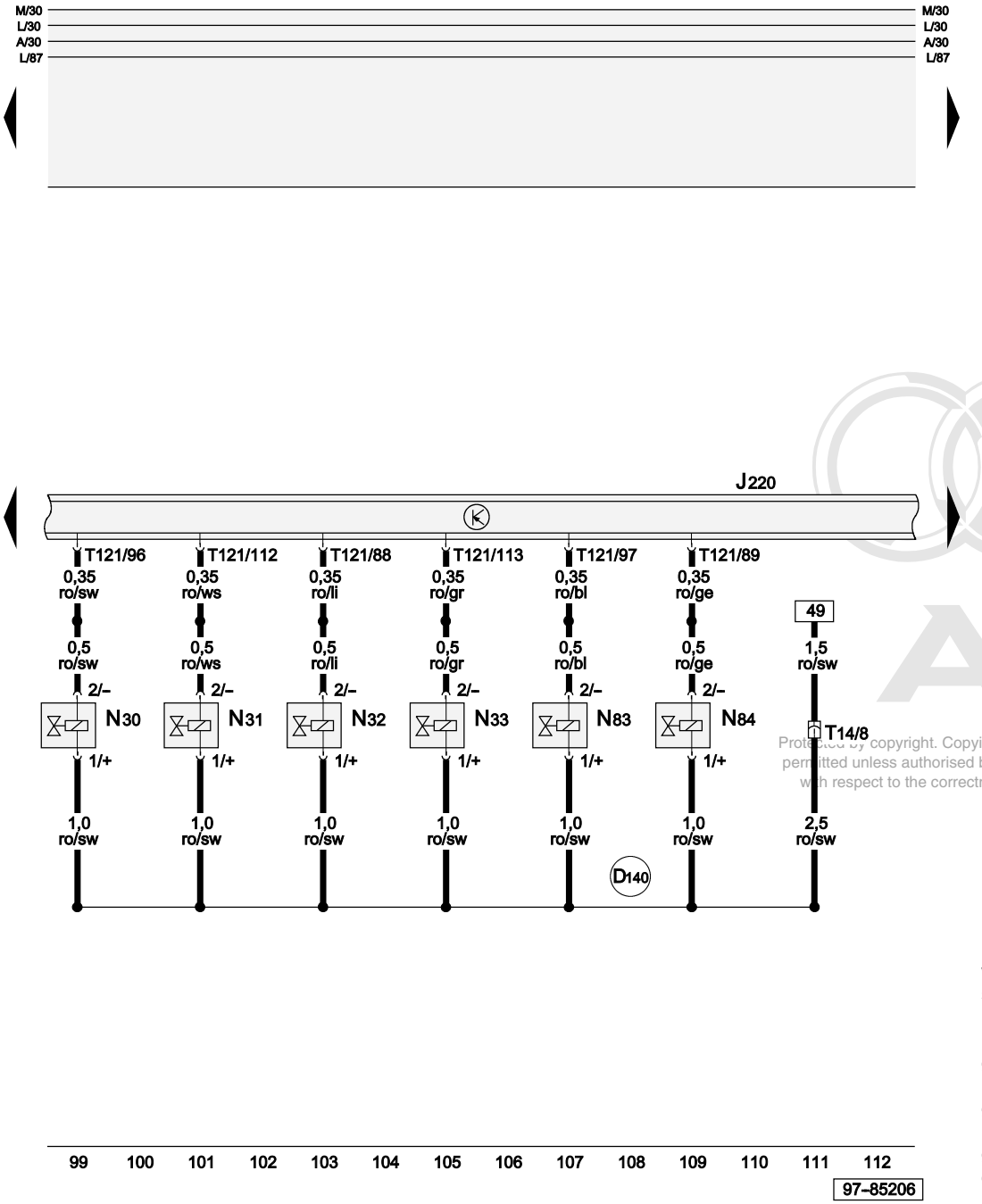


Secondary air inlet valve, exhaust flap valve

J220	Motronic control unit
N112	Secondary air inlet valve
N220	Exhaust flap valve
T121	121-pin connector, black, on engine control unit
V144	Fuel system diagnostic pump
B321	Positive connection 7 (30a), in main wiring harness
*	for models with fuel system diagnostic pump only
**	for models with exhaust flap valve only
***	is dropped from October 2005
#	phased-in modification
##	No longer fitted, phased-in modification

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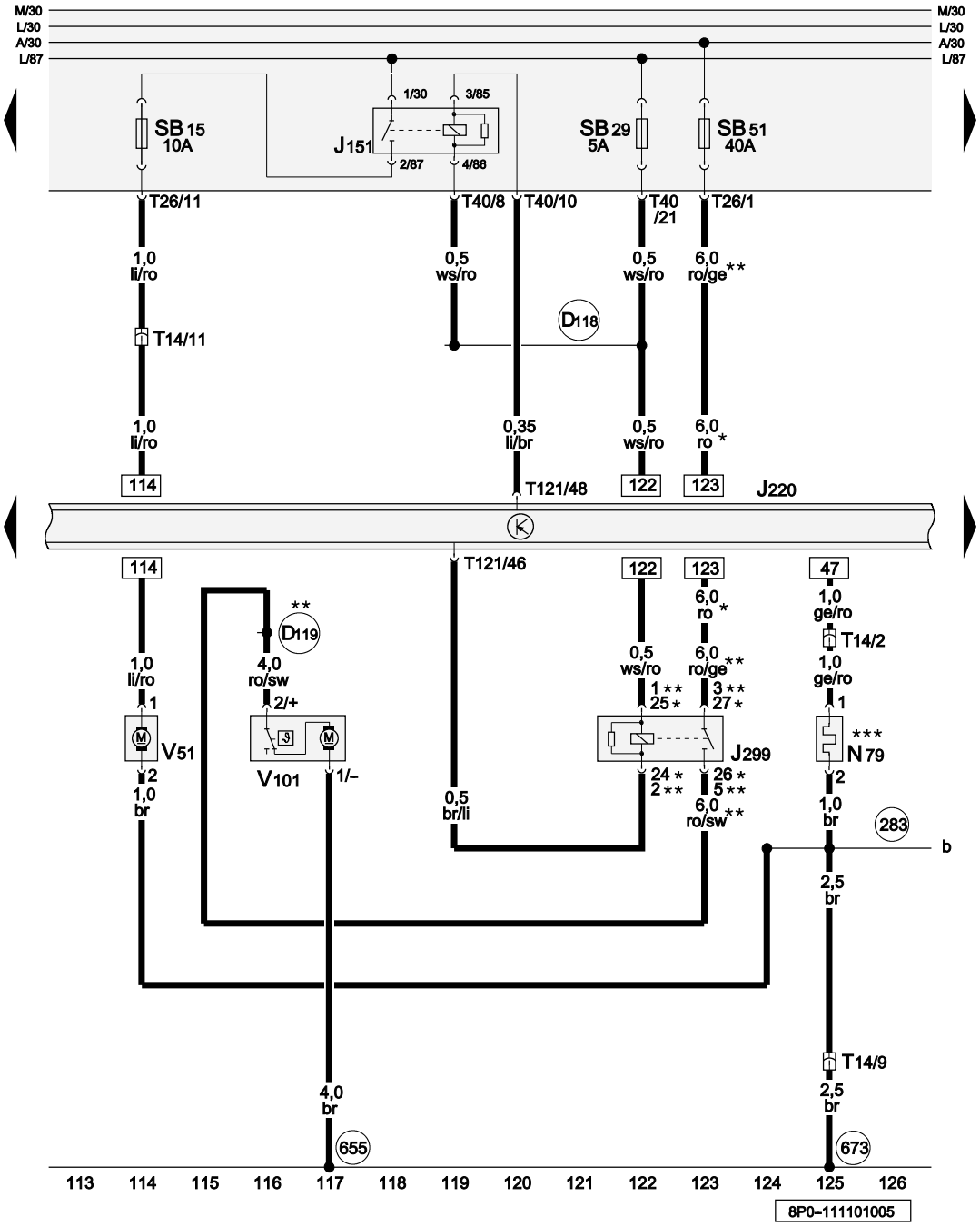


Injectors

J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
N83	Injector, cylinder 5
N84	Injector, cylinder 6
T14	14-pin connector, black, near longitudinal member, front left
T121	121-pin connector, black, on engine control unit
(D140)	Connection (injectors), in engine wiring harness

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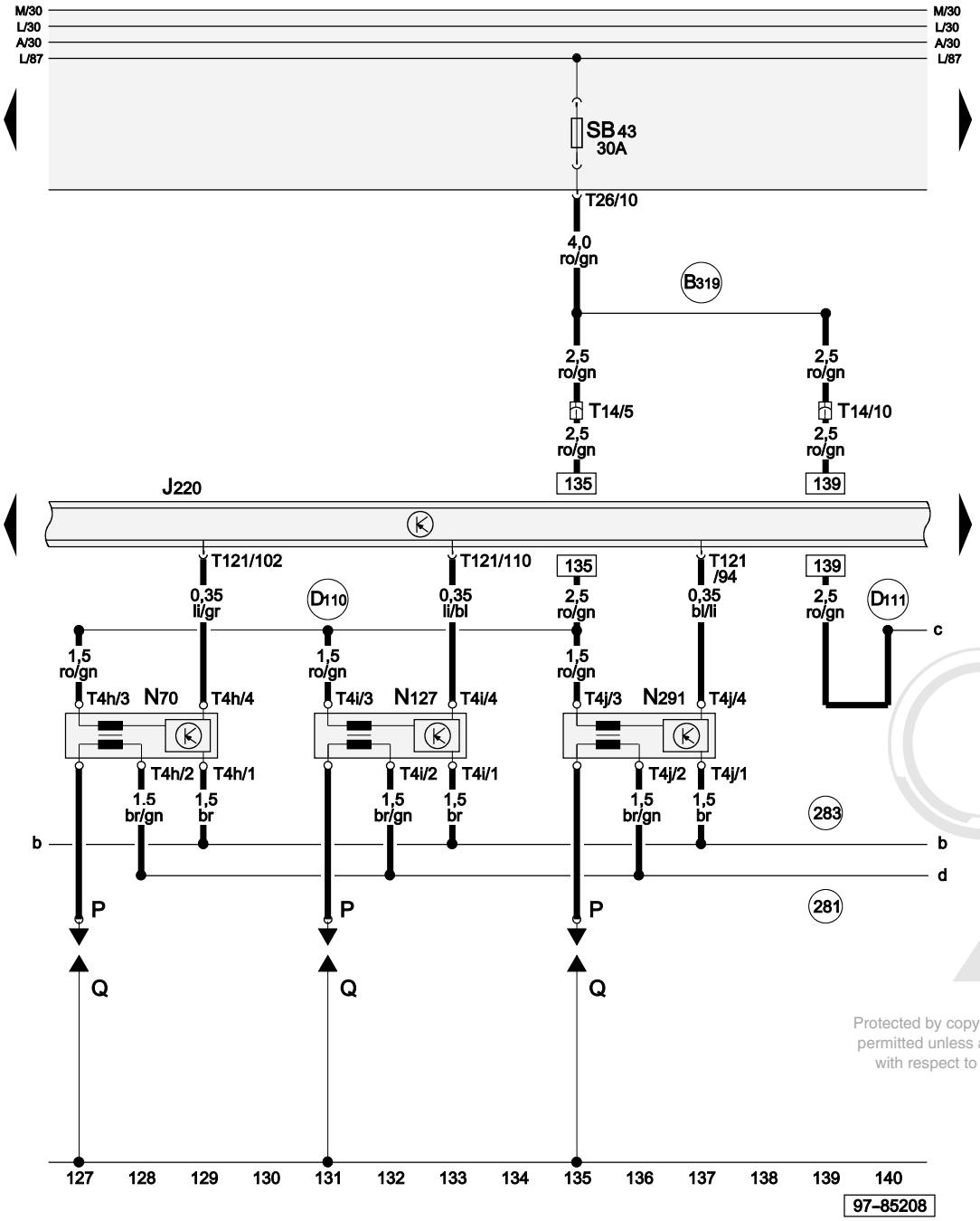
Continued coolant circulation relay, heater element (crankcase breather)

J151	Continued coolant circulation relay
J220	Motronic control unit
J299	Secondary air pump relay
N79	Heater element for crankcase breather
SB15	Fuse 15 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB51	Fuse 51 on fuse holder B
T14	14-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
V51	Continued coolant circulation pump
V101	Secondary air pump motor
283	Earth connection 2, in engine harness
655	Earth point, on left headlight
673	Earth point 3, on front of left longitudinal member
D118	Connection 16, in engine compartment wiring harness
D119	Connection 17, in engine compartment wiring harness

* applicable from November 2005
** Is dropped from November 2005
*** for models with heater element only

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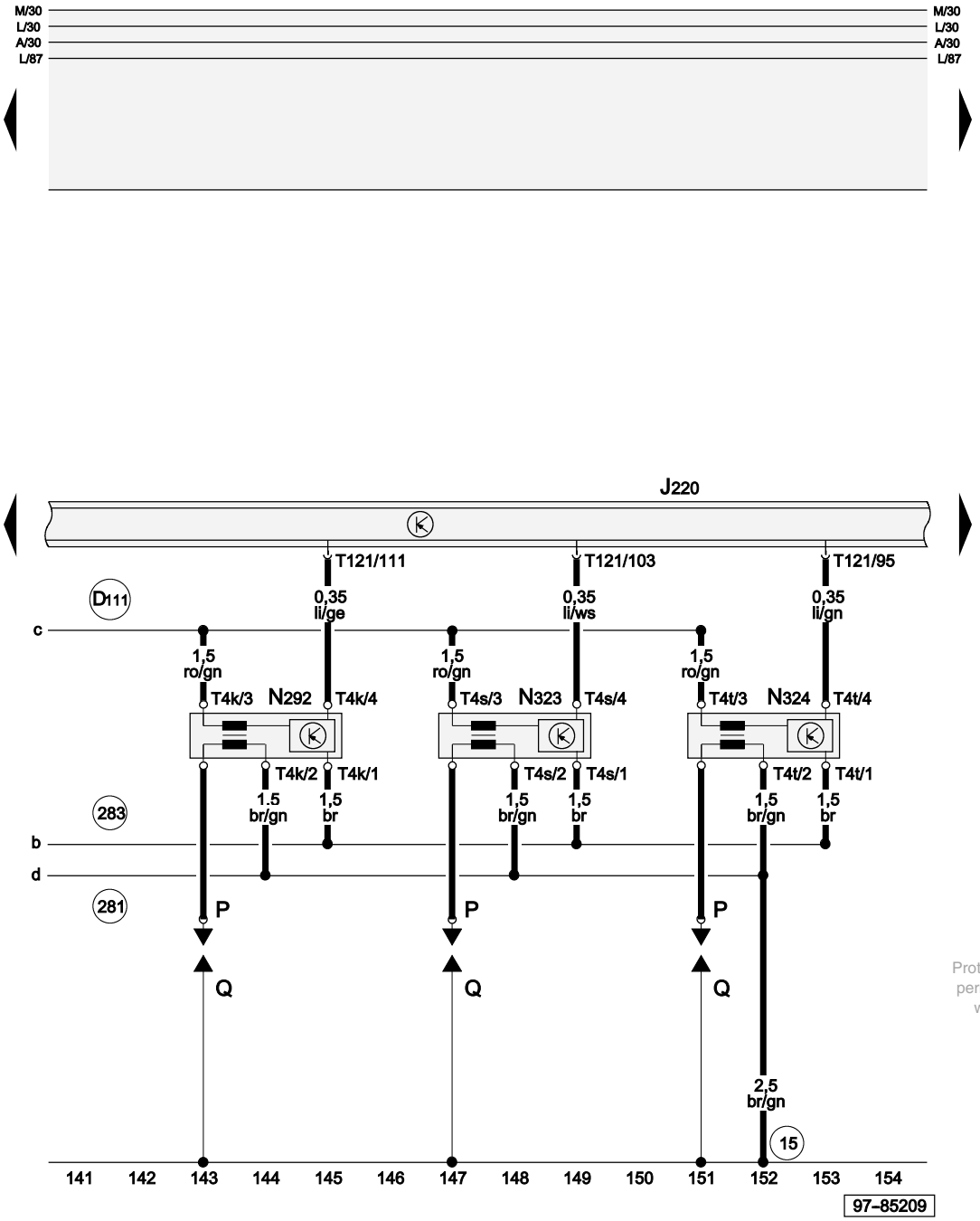


Ignition coils 1 to 3 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
SB43	Fuse 43 on fuse holder B
P	Spark plug connector
Q	Spark plugs
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T4j	4-pin connector, black, on ignition coil 3 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
B319	Positive connection 5 (30a), in main wiring harness
D110	Connection 8, in engine compartment wiring harness
D111	Connection 9, in engine compartment wiring harness

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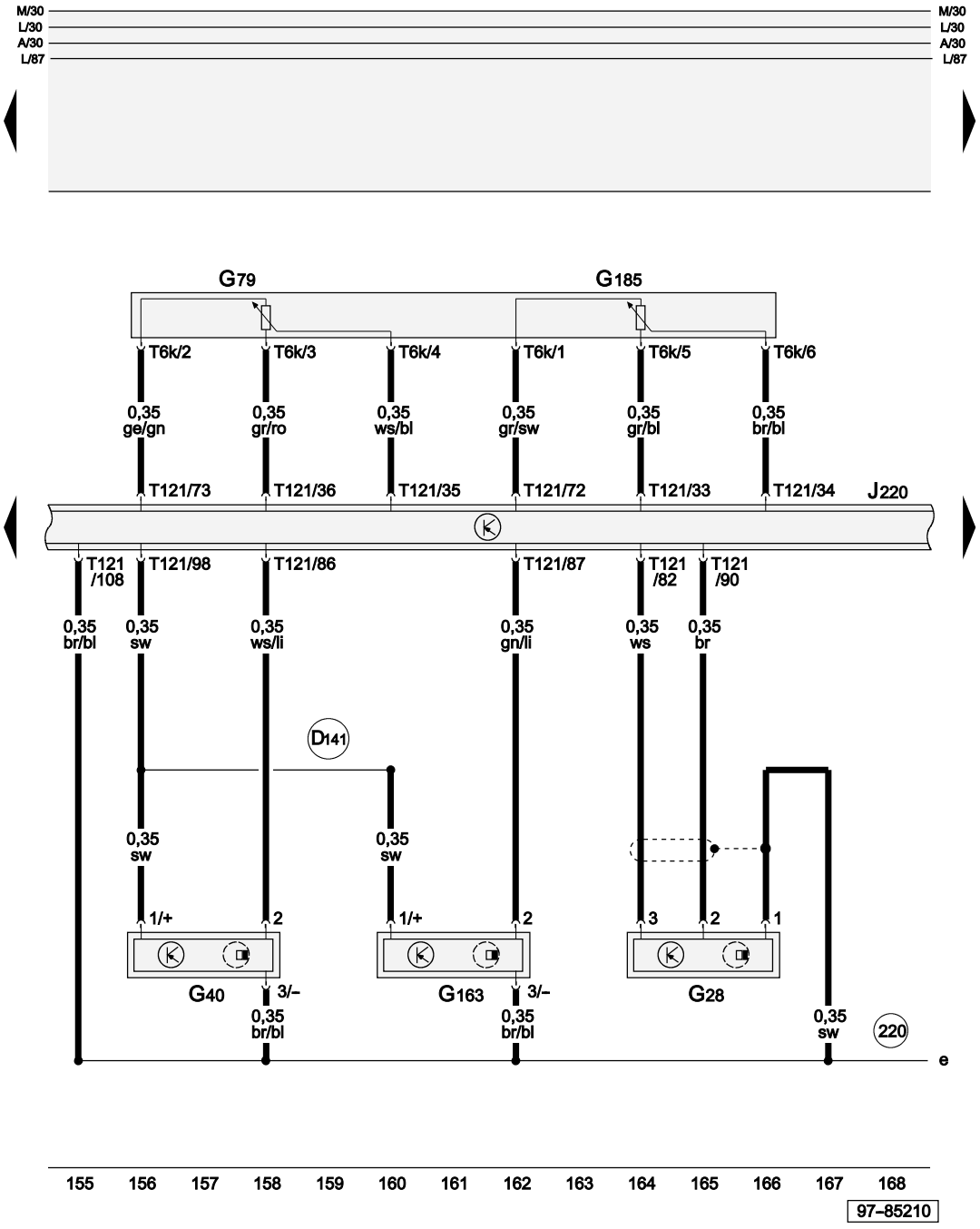


Ignition coils 4 to 6 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N292	Ignition coil 4 with output stage
N323	Ignition coil 5 with output stage
N324	Ignition coil 6 with output stage
P	Spark plug connector
Q	Spark plugs
T4k	4-pin connector, black, on ignition coil 4 with output stage
T4s	4-pin connector, black, on ignition coil 5 with output stage
T4t	4-pin connector, black, on ignition coil 6 with output stage
T121	121-pin connector, black, on engine control unit
15	Earth point, on cylinder head
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
D111	Connection 9, in engine compartment wiring harness

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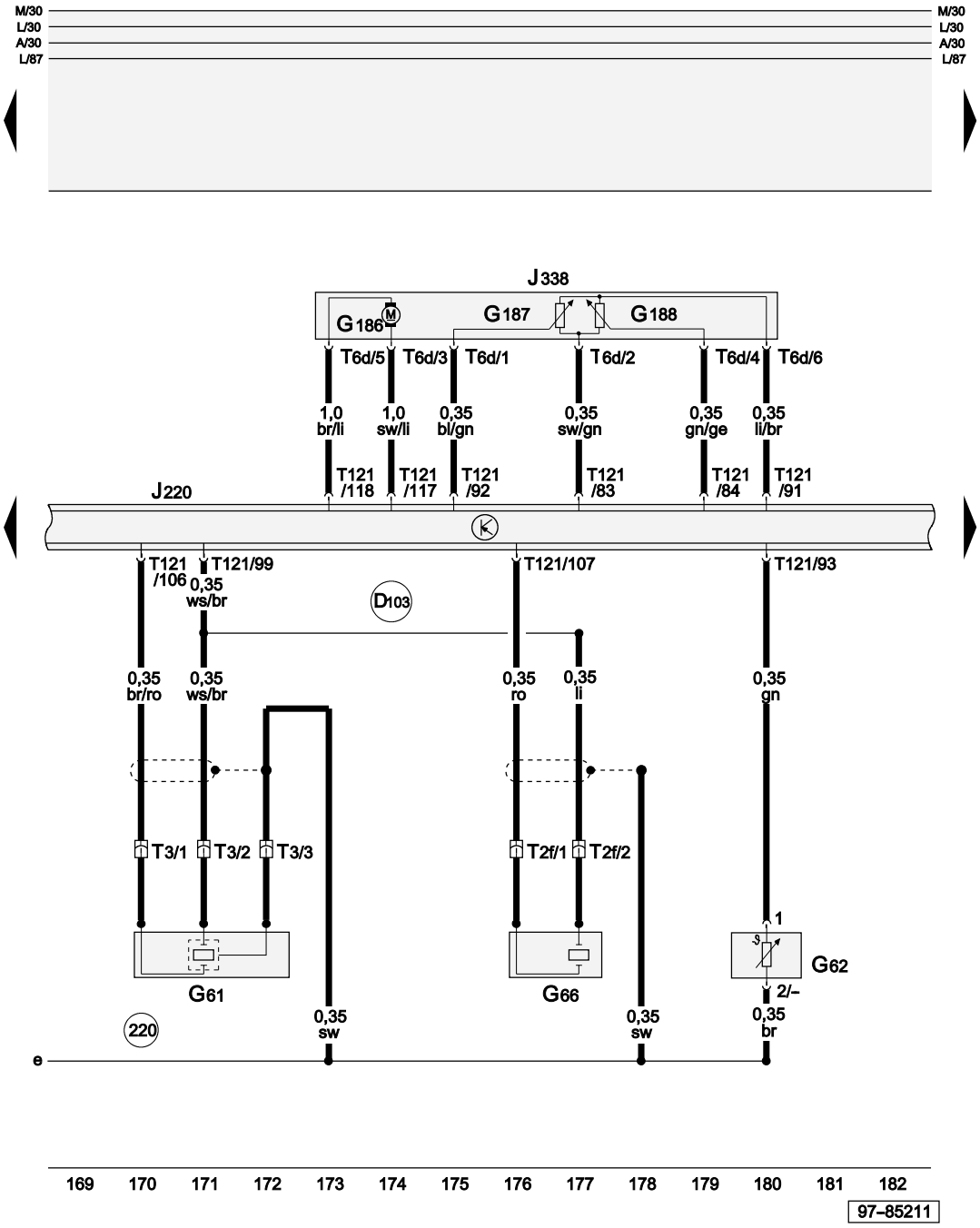


Hall sender, accelerator position sender

G28	Engine speed sender
G40	Hall sender
G79	Accelerator position sender
G163	Hall sender 2
G185	Accelerator position sender 2
J220	Motronic control unit
T6k	6-pin connector, black, near accelerator position sender
T121	121-pin connector, black, on engine control unit
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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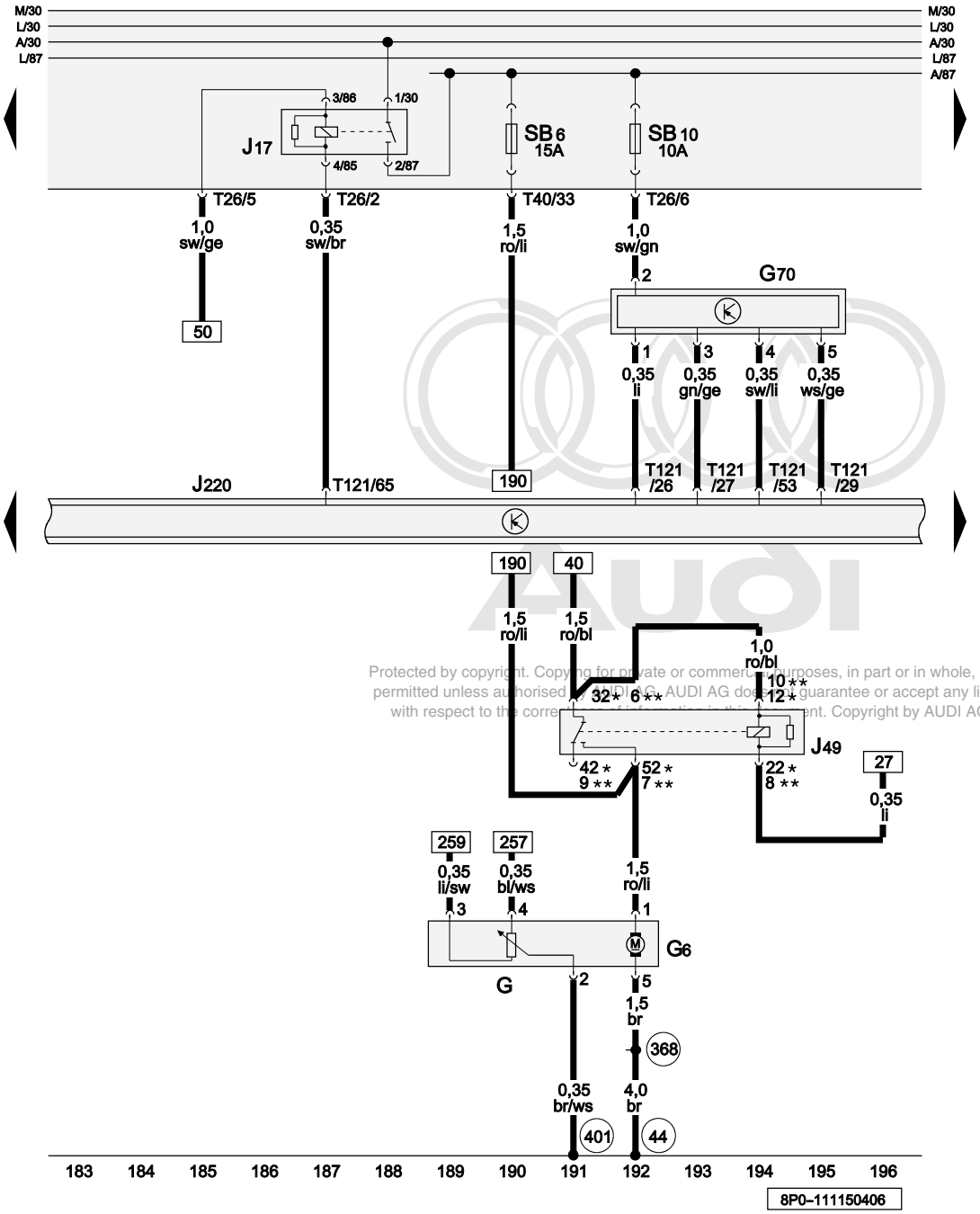


Throttle valve module, coolant temperature sender, knock sensors

G61	Knock sensor 1
G62	Coolant temperature sender
G66	Knock sensor 2
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J220	Motronic control unit
J338	Throttle valve module
T2f	2-pin connector, black, in left engine compartment (knock sensor 2)
T3	3-pin connector, red, in left engine compartment (knock sensor)
T6d	6-pin connector, black, near throttle valve module
T121	121-pin connector, black, on engine control unit
220	Earth connection (sender earth), in engine wiring harness
D103	Connection 3, in engine compartment wiring harness

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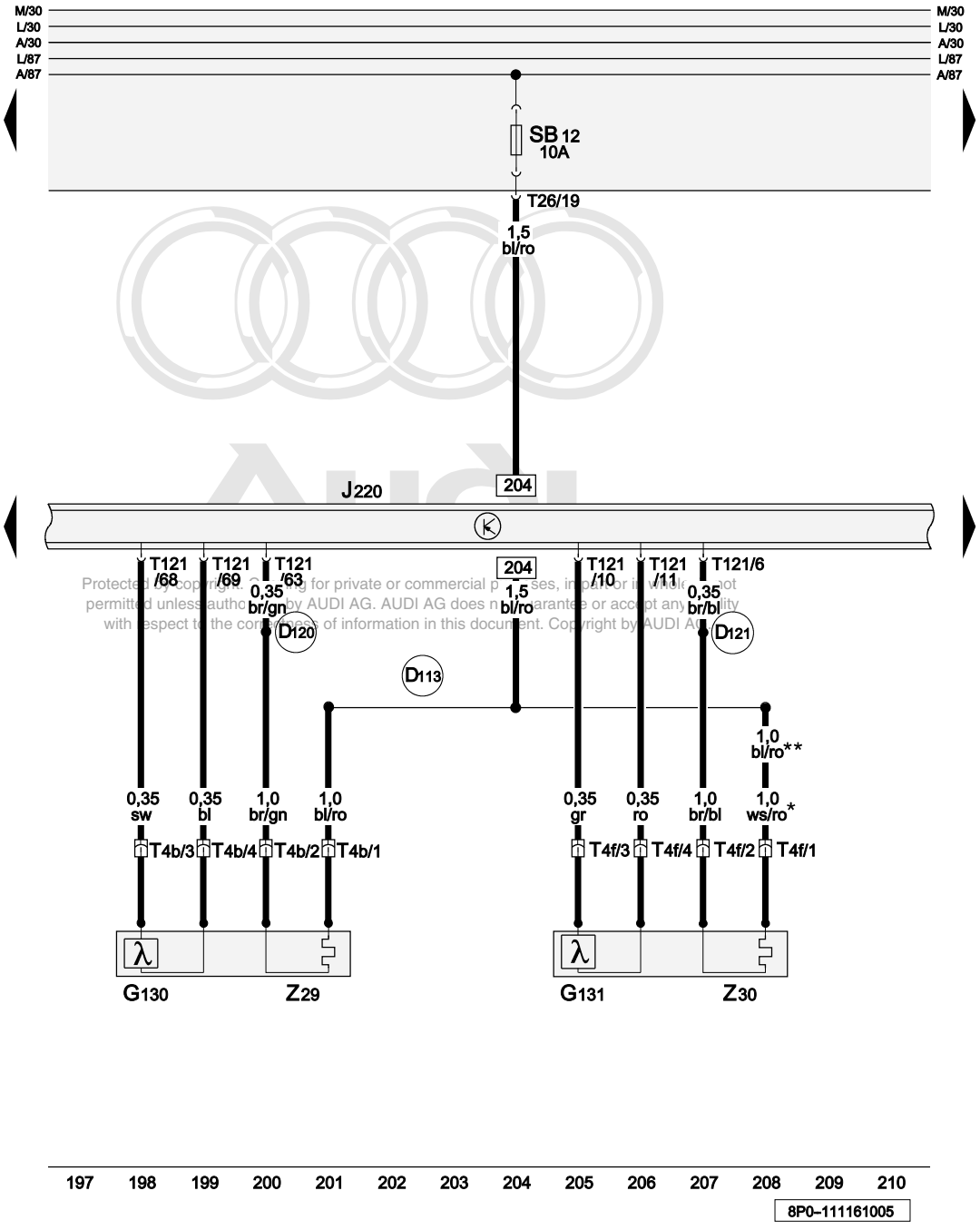


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Fuel pump, fuel gauge sender, air mass meter

G	Fuel gauge sender
G6	Fuel system pressurisation pump
G70	Air mass meter
J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J220	Motronic control unit
SB6	Fuse 6 on fuse holder B
SB10	Fuse 10 on fuse holder B
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
*	No longer fitted, phased-in modification
**	phased-in modification

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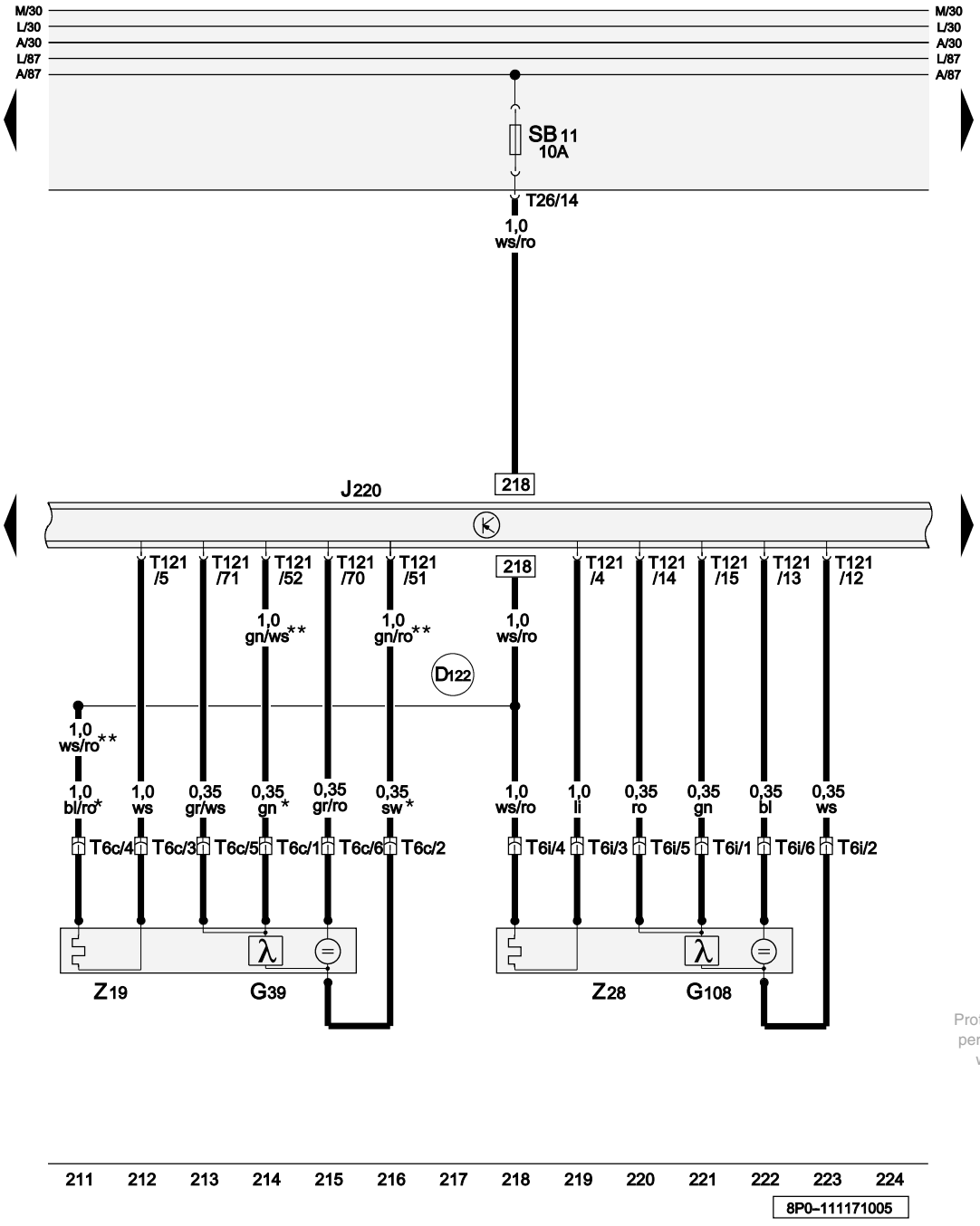


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Lambda probe after catalytic converter, lambda probe 2 after catalytic converter

G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
J220	Motronic control unit
SB12	Fuse 12 on fuse holder B
T4b	4-pin connector, black, on lambda probe after catalytic converter
T4f	4-pin connector, brown, on lambda probe 2 after catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
D113	Connection 11, in engine compartment wiring harness
D120	Connection 18, in engine compartment wiring harness
D121	Connection 19, in engine compartment wiring harness
*	No longer fitted, phased-in modification
**	phased-in modification

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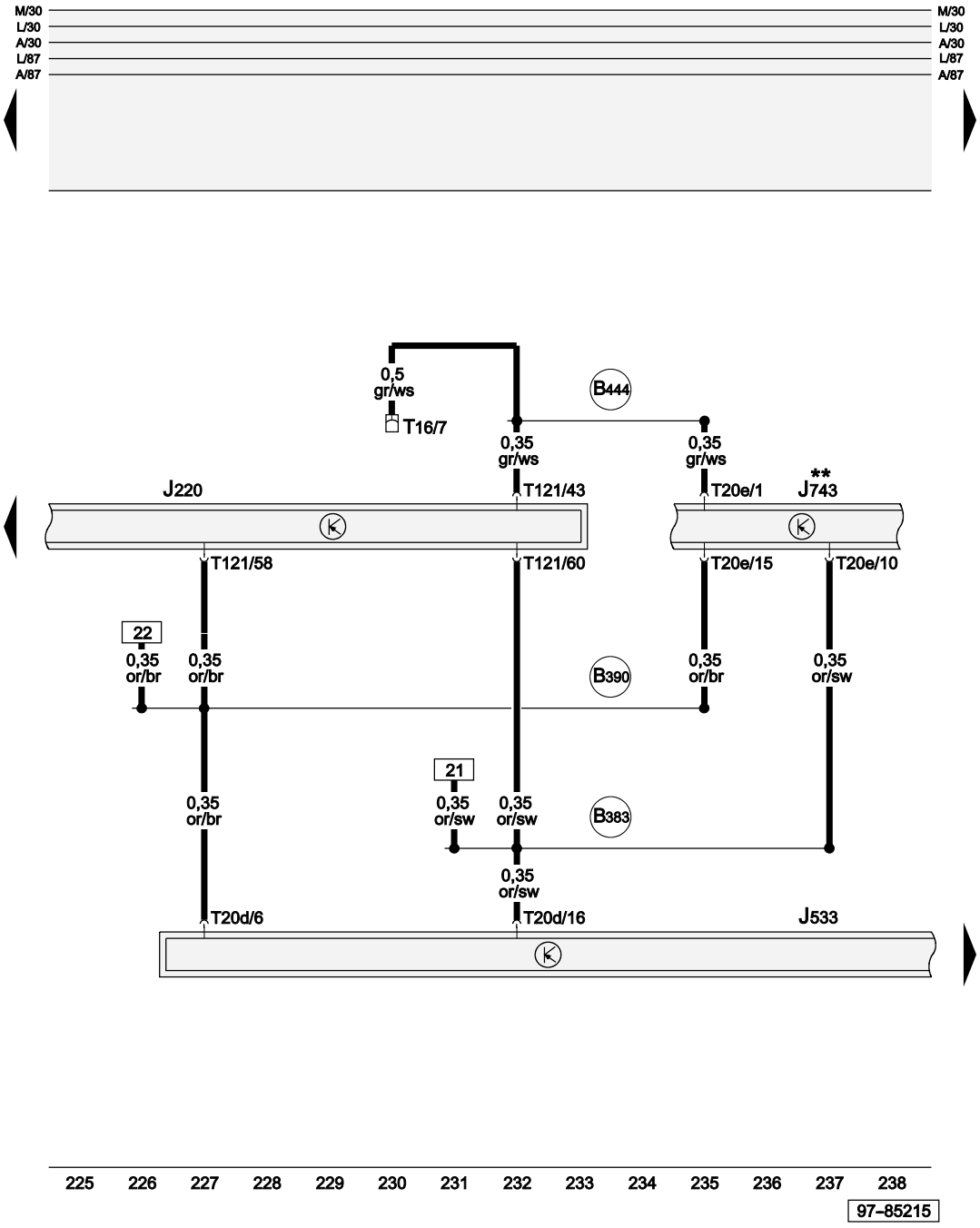


Lambda probe, lambda probe 2

G39	Lambda probe
G108	Lambda probe 2
J220	Motronic control unit
SB11	Fuse 11 on fuse holder B
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T6i	6-pin connector, brown, on lambda probe 2 upstream of catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T121	121-pin connector, black, on engine control unit
Z19	Lambda probe heater
Z28	Lambda probe 2 heater
D122	Connection 20, in engine compartment wiring harness
*	No longer fitted, phased-in modification
**	phased-in modification

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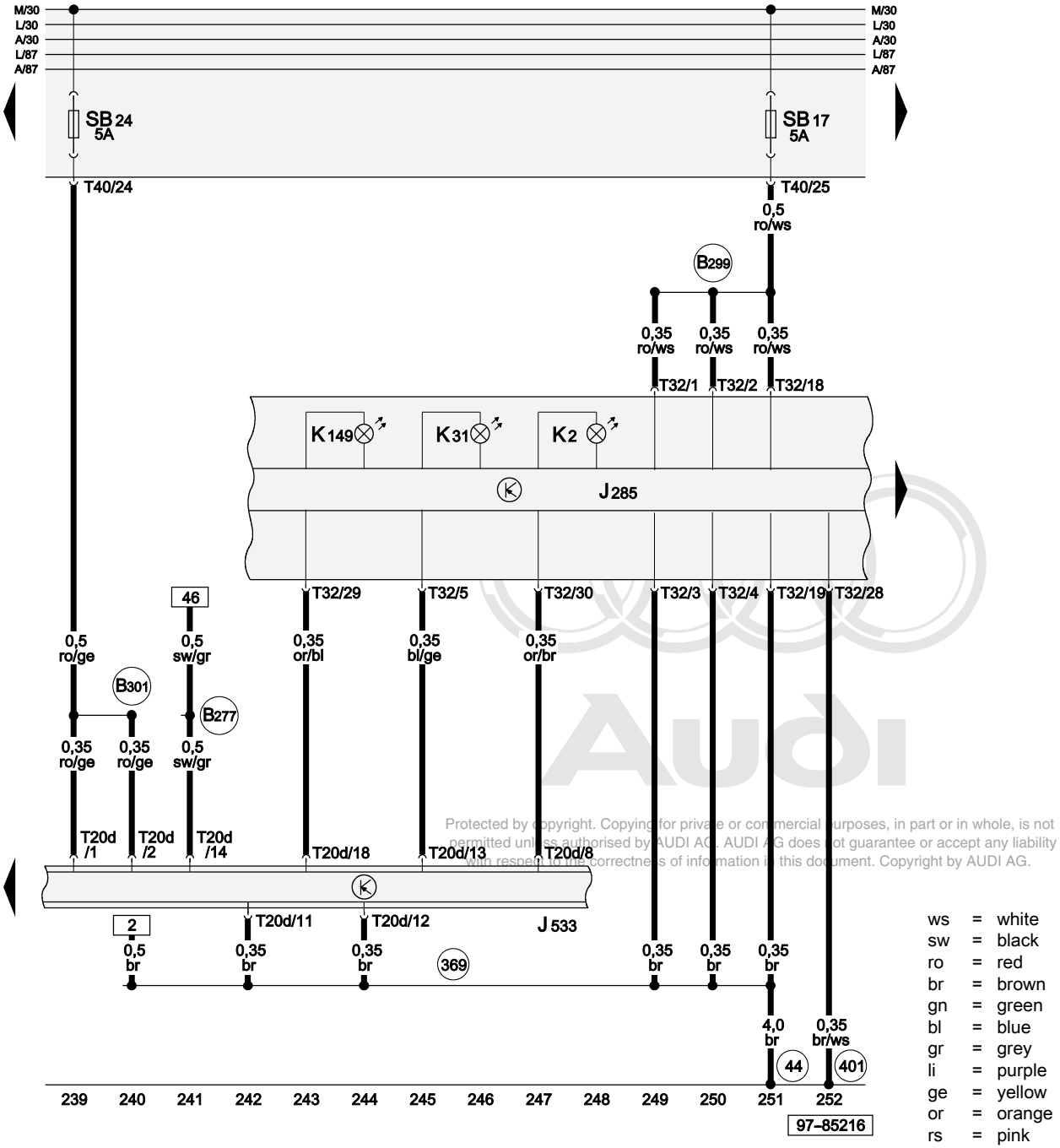


Drive train CAN bus, diagnosis

J220	Motronic control unit
J533	Data bus diagnostic interface
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
**	for models with direct shift gearbox (02E) only

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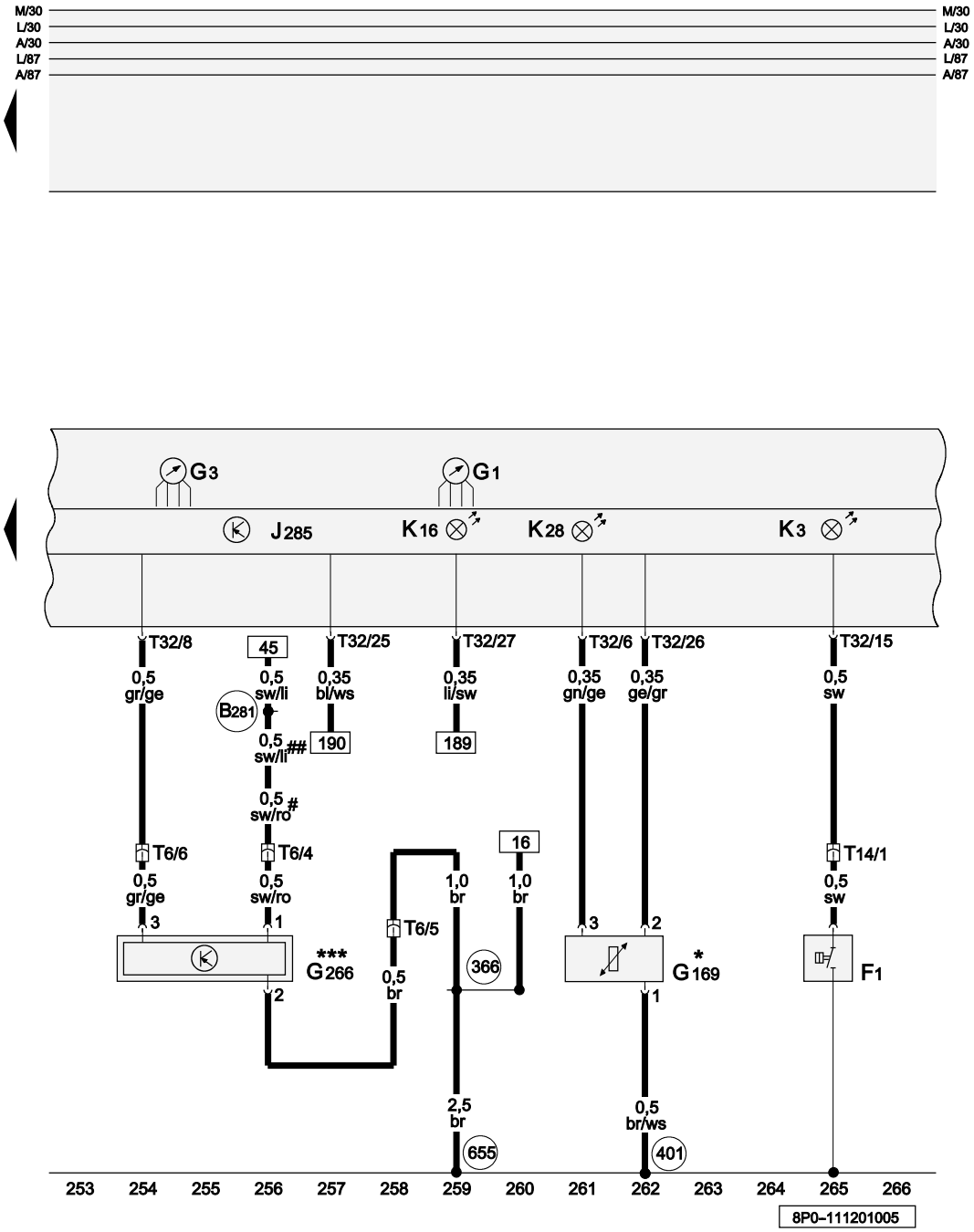


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Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder B
SB24	Fuse 24 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness



Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G169	Fuel gauge sender 2
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
655	Earth point, on left headlight
B281	Positive connection 5 (15a), in main wiring harness

* for models with four-wheel drive only
*** for models with extended servicing intervals (ESI) only
\# No longer fitted, phased-in modification
phased-in modification

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Basic equipment

⇒ **for US equipment only**

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

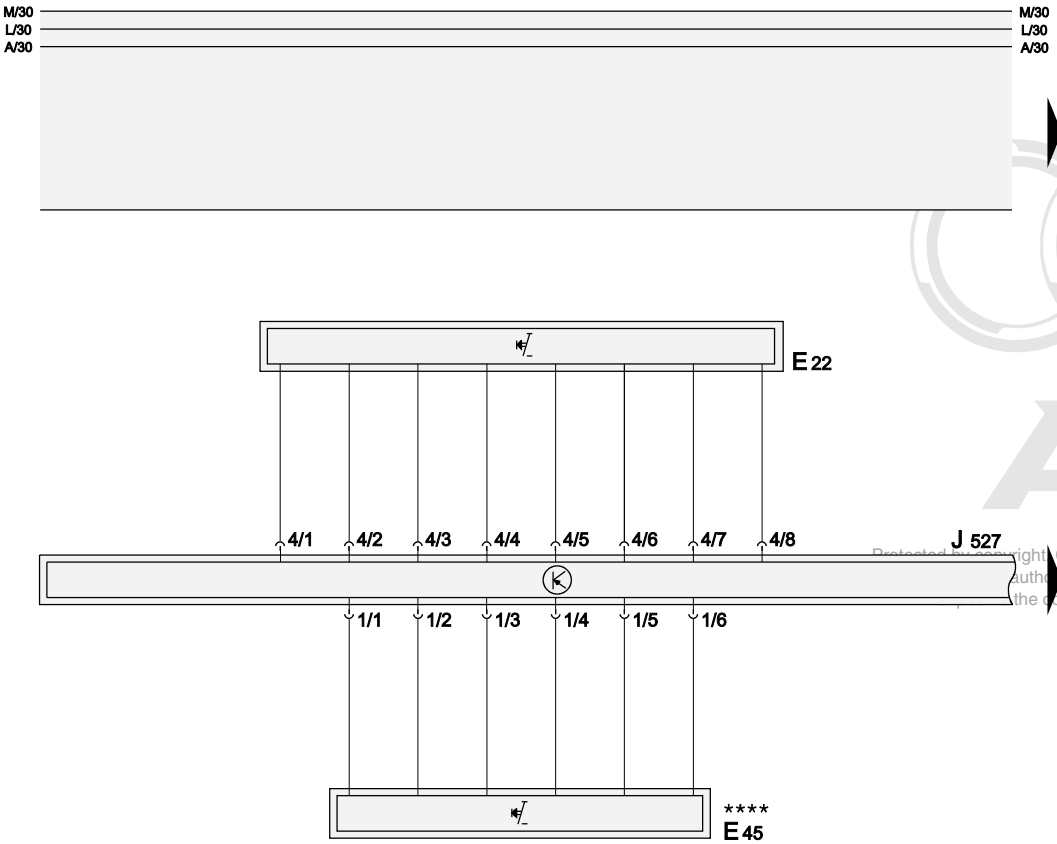
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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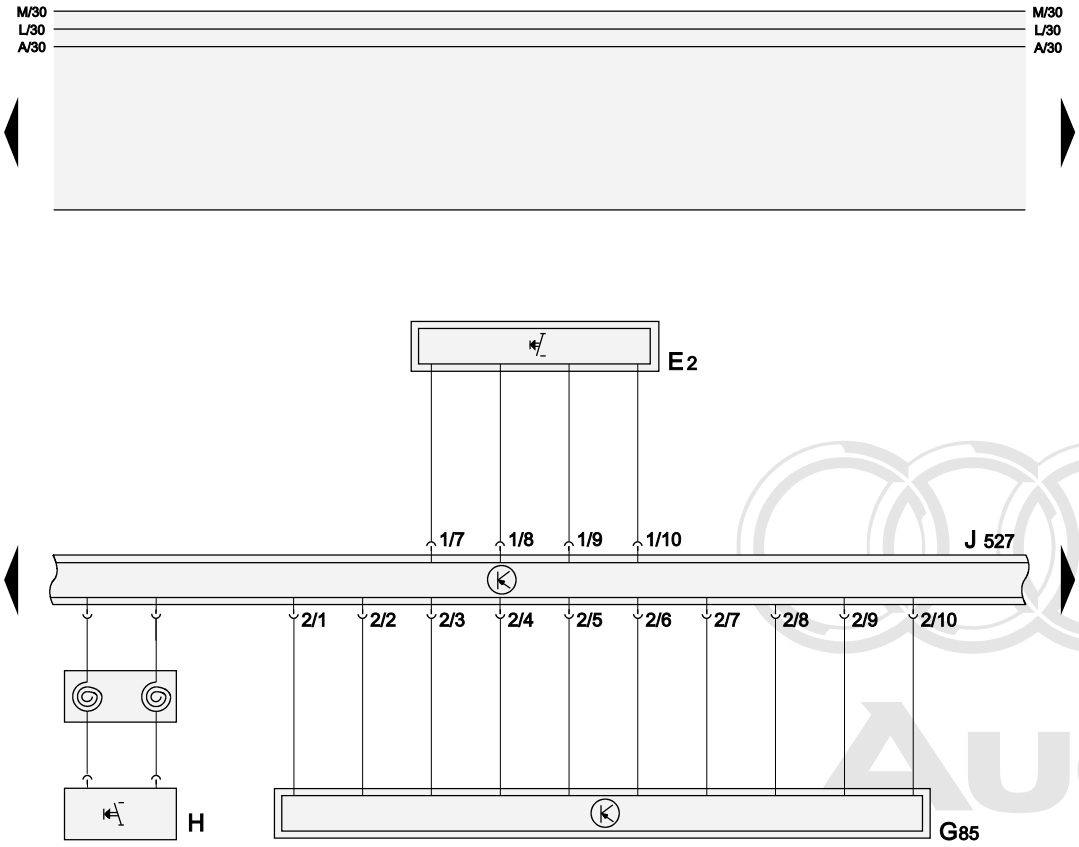


Intermittent wiper switch, cruise control system switch

E22	Intermittent wiper switch
E45	Cruise control system switch
J527	Steering column electronics control unit
****	for models with cruise control system only

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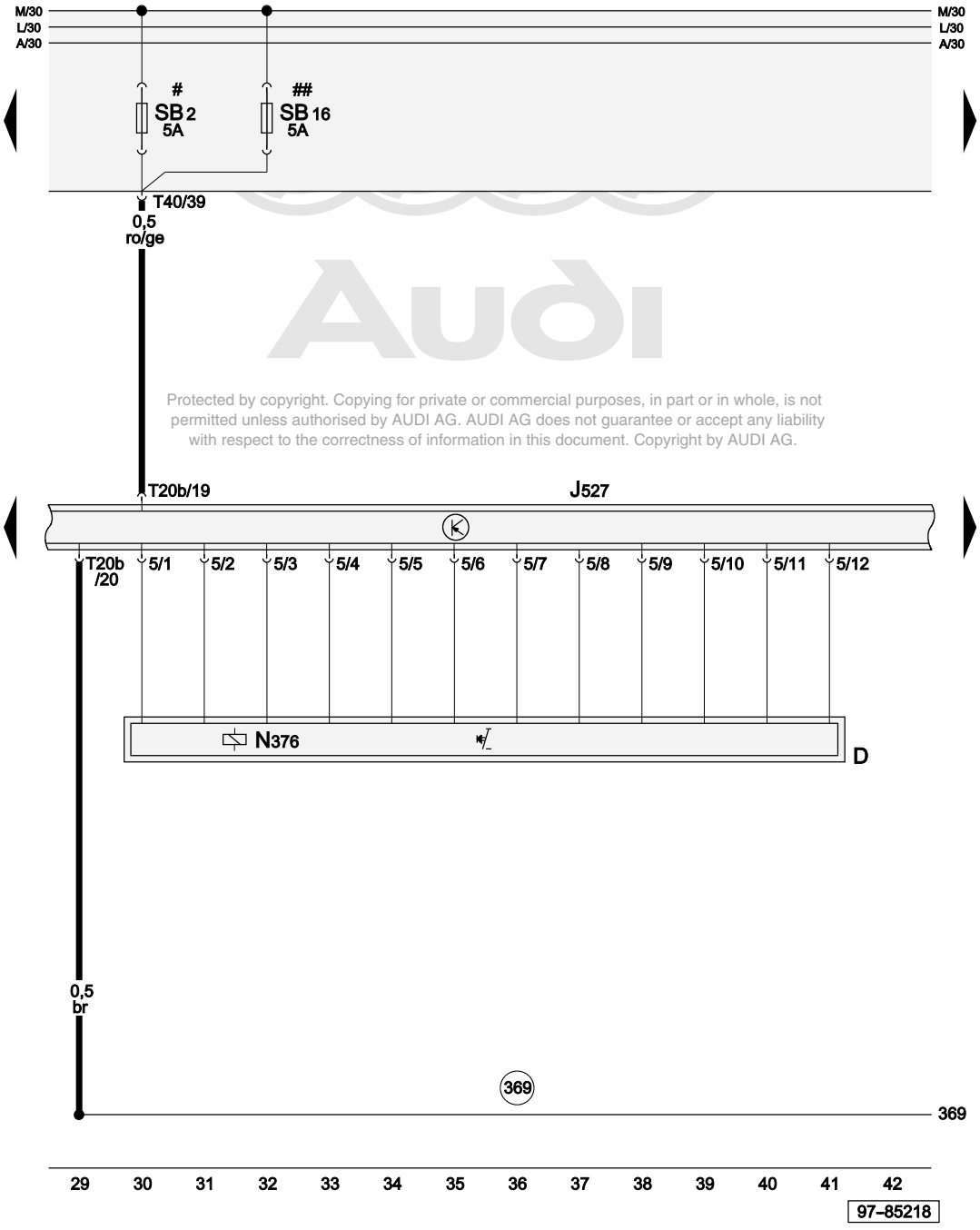


Turn signal switch, horn plate, steering angle sender

E2	Turn signal switch
G85	Steering angle sender
H	Horn plate
J527	Steering column electronics control unit

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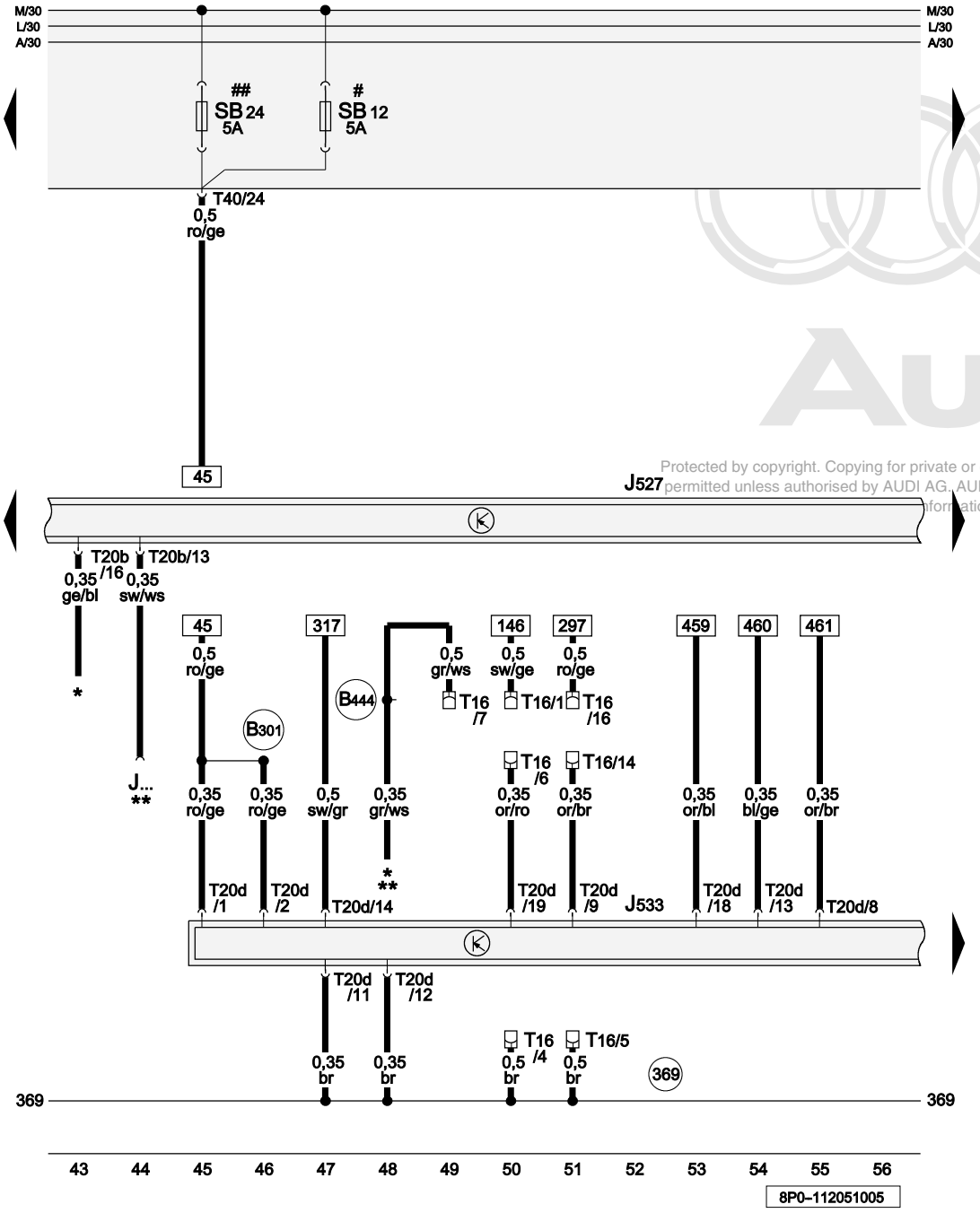


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Ignition/starter switch

D	Ignition/starter switch
J527	Steering column electronics control unit
N376	Ignition key withdrawal lock solenoid
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(369)	Earth connection 4, in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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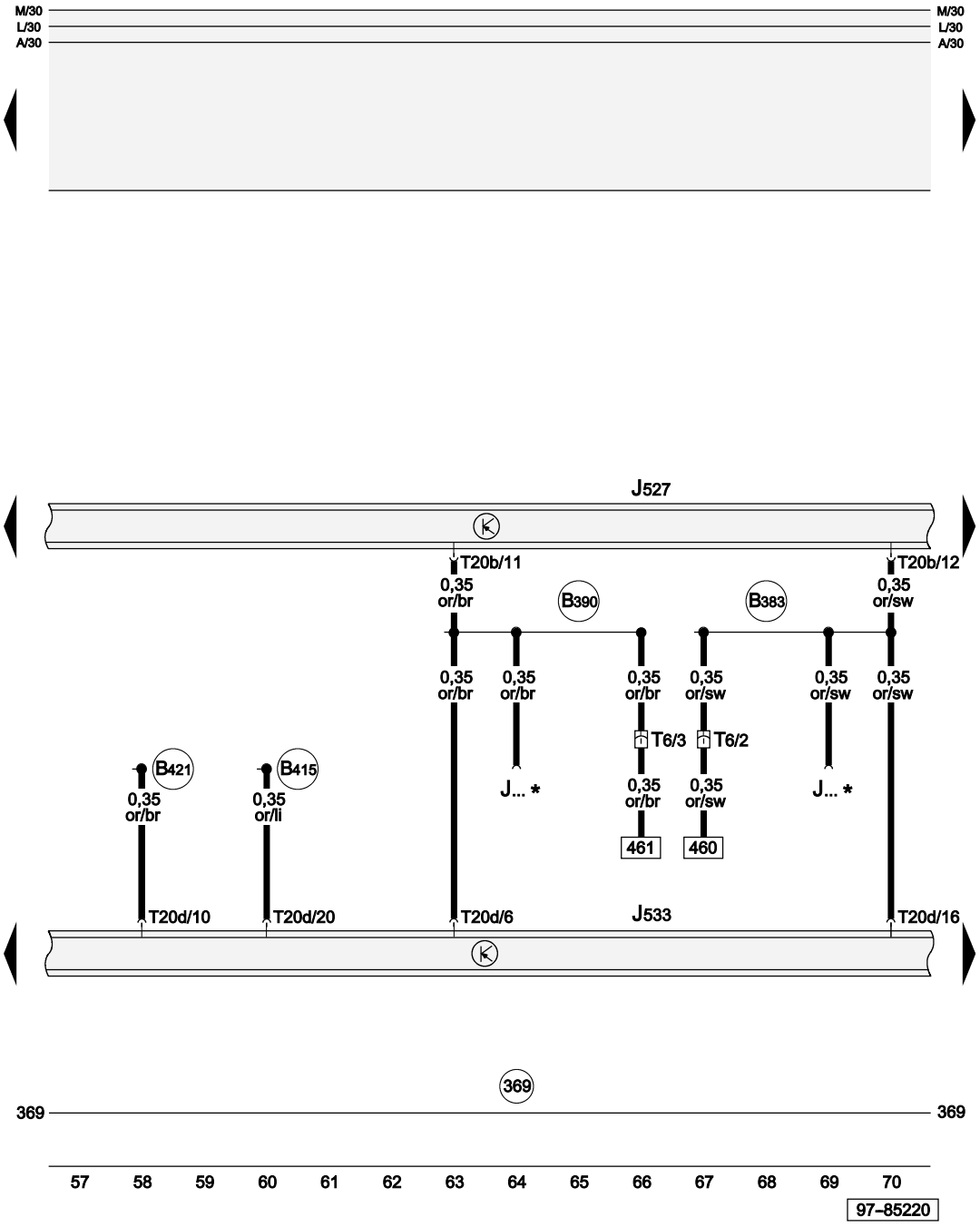


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Data bus diagnostic interface, diagnostic connector

J...	Engine control units
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB12	Fuse 12 on fuse holder B
SB24	Fuse 24 on fuse holder B
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	⇒ applicable Current Flow Diagram: automatic gearbox
**	⇒ applicable engine Current Flow Diagram
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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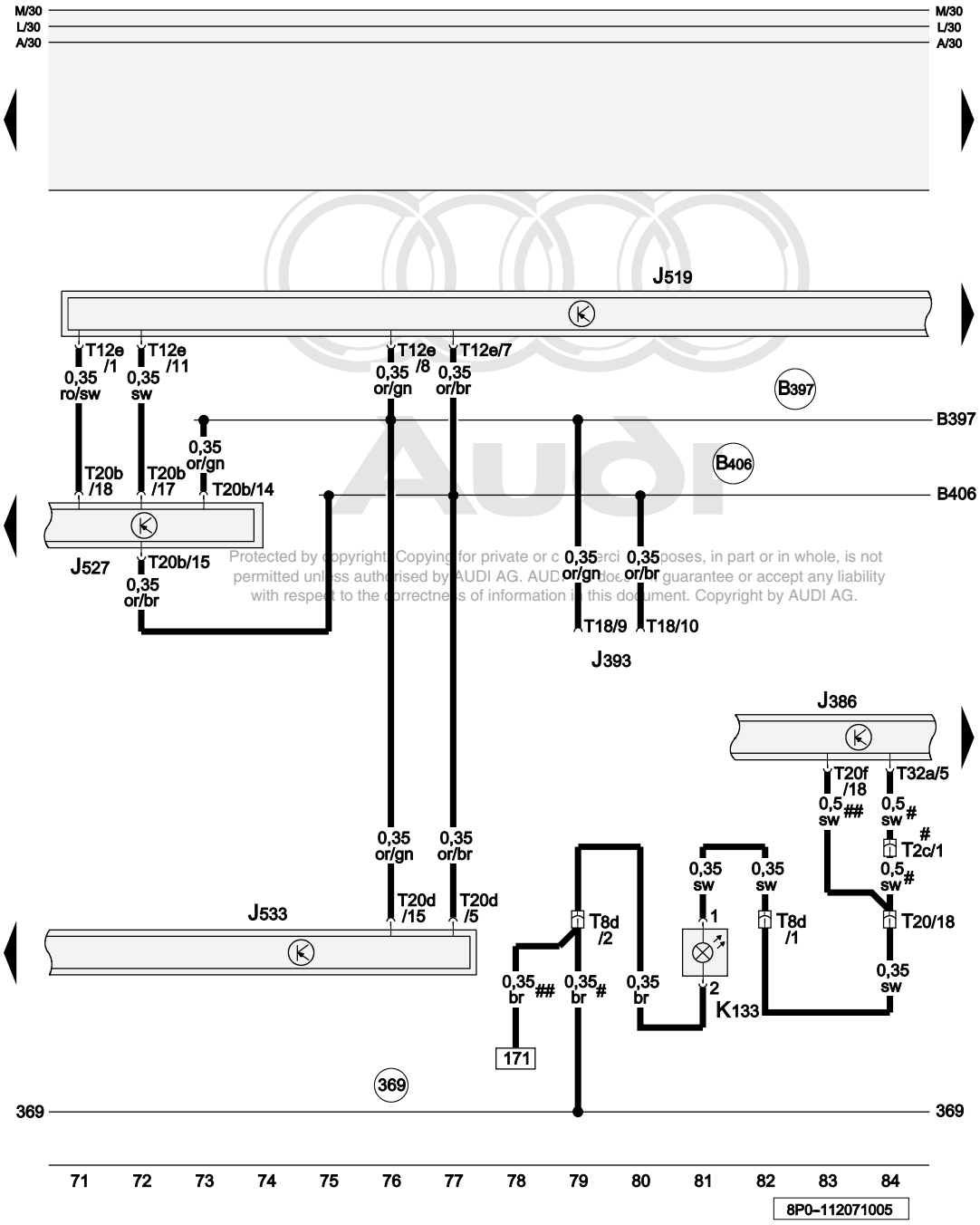


Drive train CAN bus, infotainment CAN bus

J...	Engine control units
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T6	6-pin connector, black, near longitudinal member, front left
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
369	Earth connection 4, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	⇒ applicable engine Current Flow Diagram

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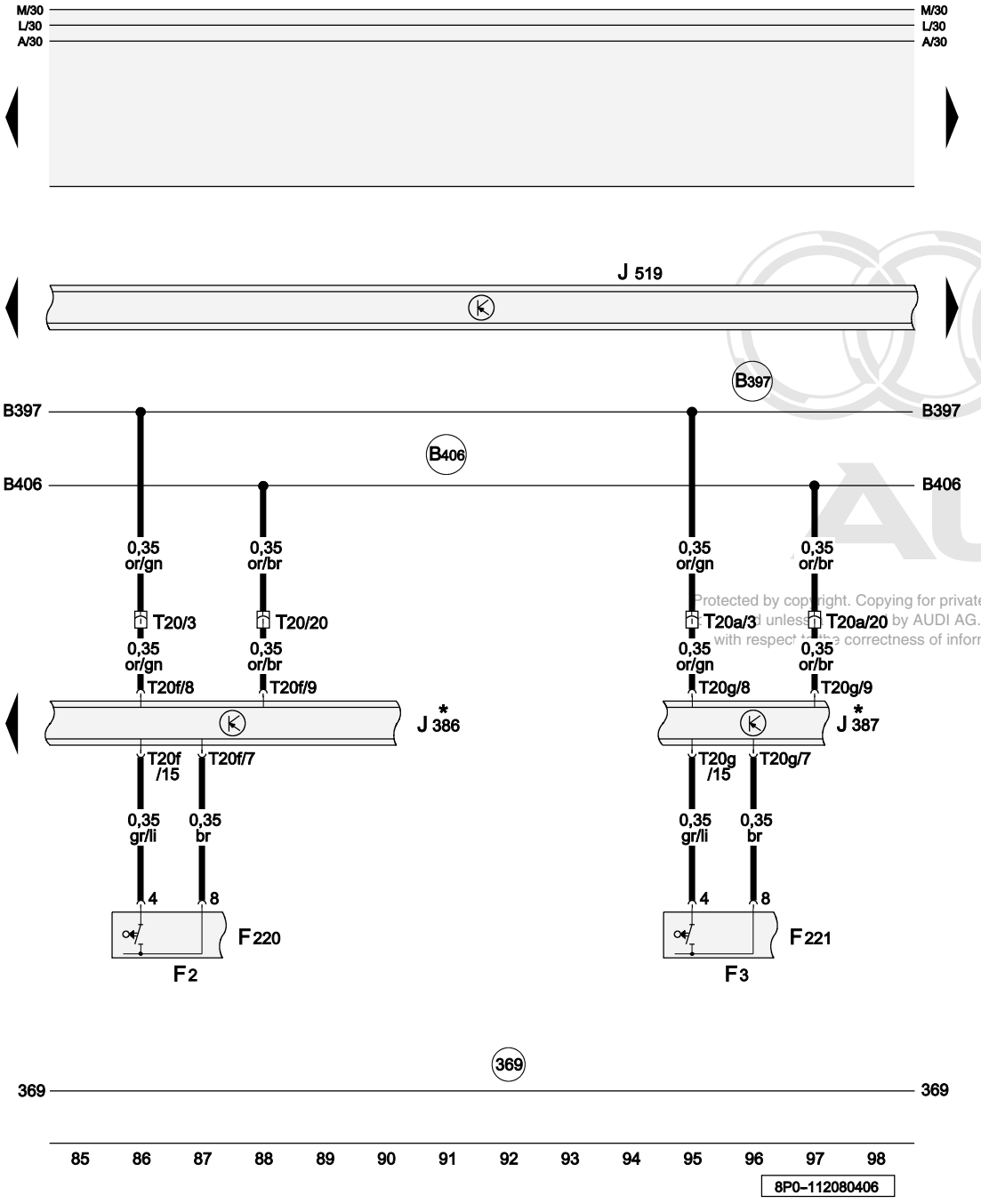


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Convenience CAN bus, central locking deadlock function warning lamp

J386	Driver door control unit
J393	Convenience system central control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K133	Central locking deadlock function warning lamp
T2c	2-pin connector, black, behind door trim driver door
T8d	8-pin connector, black, behind centre console
T12e	12-pin connector, black (connector G)
T18	18-pin connector, brown (connector A)
T20	20-pin connector, black, door A-pillar left
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T20f	20-pin connector, black (connector A)
T32a	32-pin connector, grey (connector C)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	Is dropped from November 2005
##	applicable from November 2005

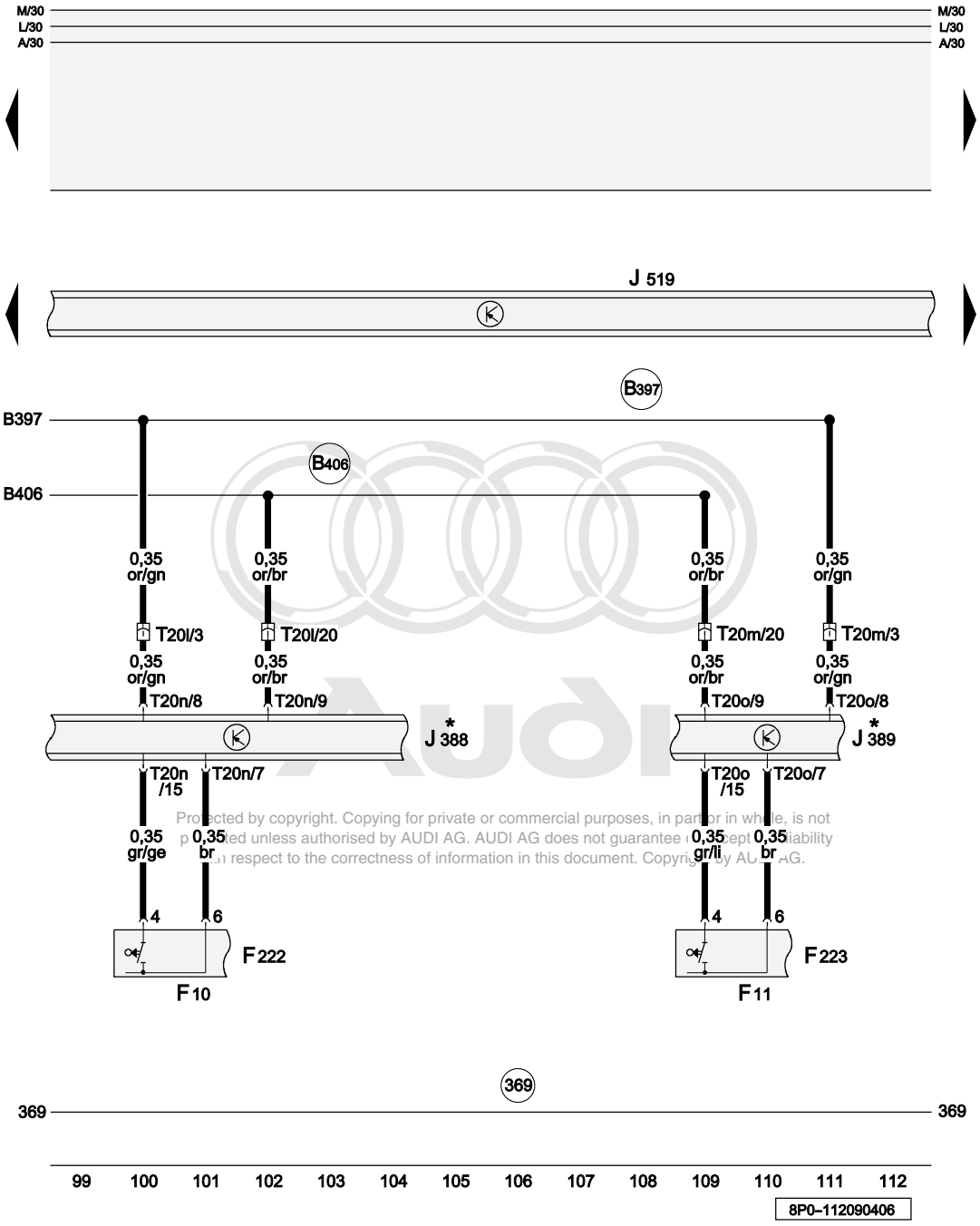


Convenience CAN bus, door contact switch

F2	Driver door contact switch
F3	Front passenger door contact switch
F220	Driver side central locking lock unit
F221	Front passenger side central locking lock unit
J386	Driver door control unit
J387	Front passenger door control unit
J519	Onboard supply control unit
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Voltage supply, ⇒ applicable Current Flow Diagram: convenience system

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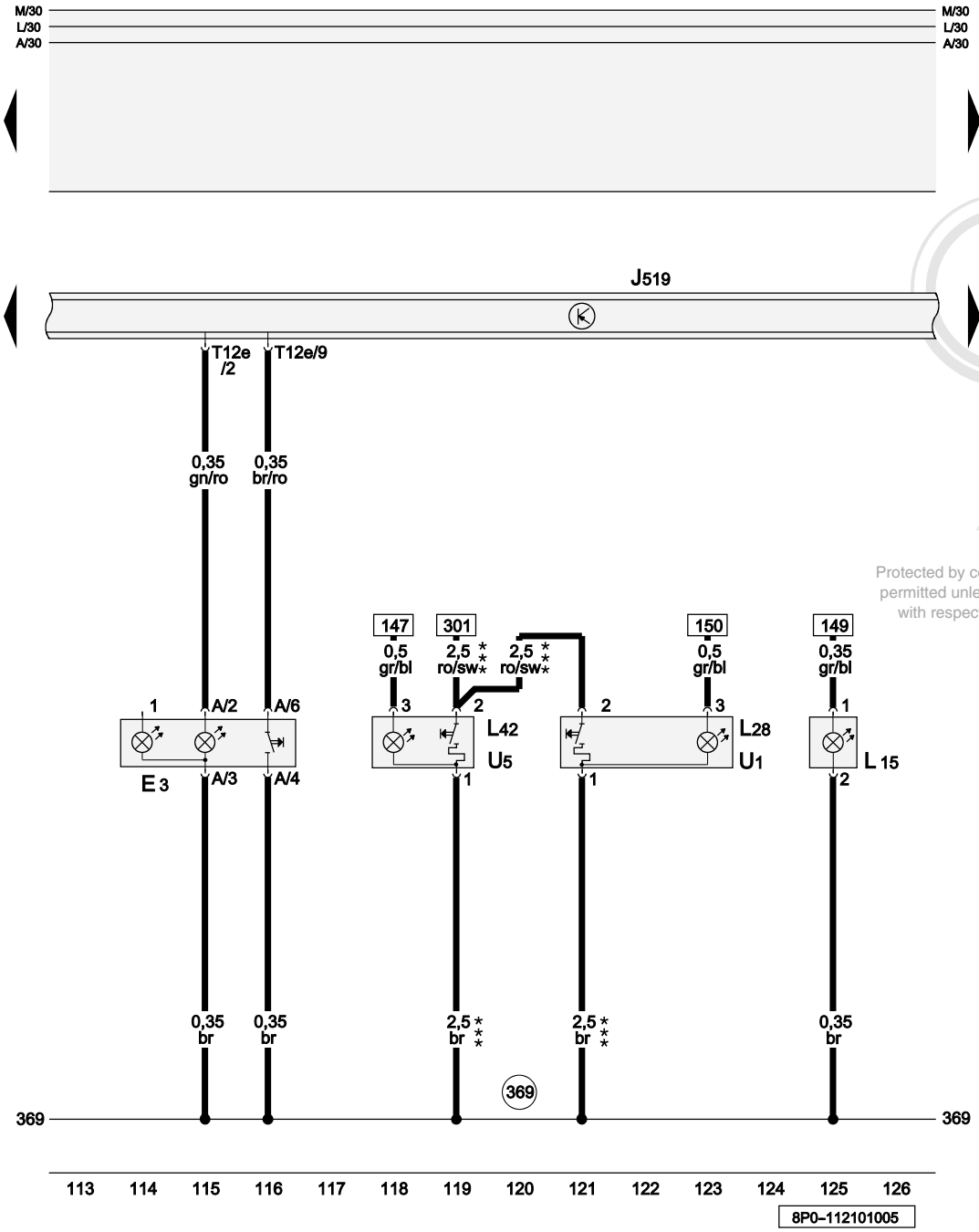


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Convenience CAN bus, rear door contact switch

F10	Rear left door contact switch
F11	Rear right door contact switch
F222	Rear left central locking lock unit
F223	Rear right central locking lock unit
J388	Rear left door control unit
J389	Rear right door control unit
J519	Onboard supply control unit
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
T20n	20-pin connector, black (connector A)
T20o	20-pin connector, black (connector A)
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Voltage supply, ⇒ applicable Current Flow Diagram: convenience system

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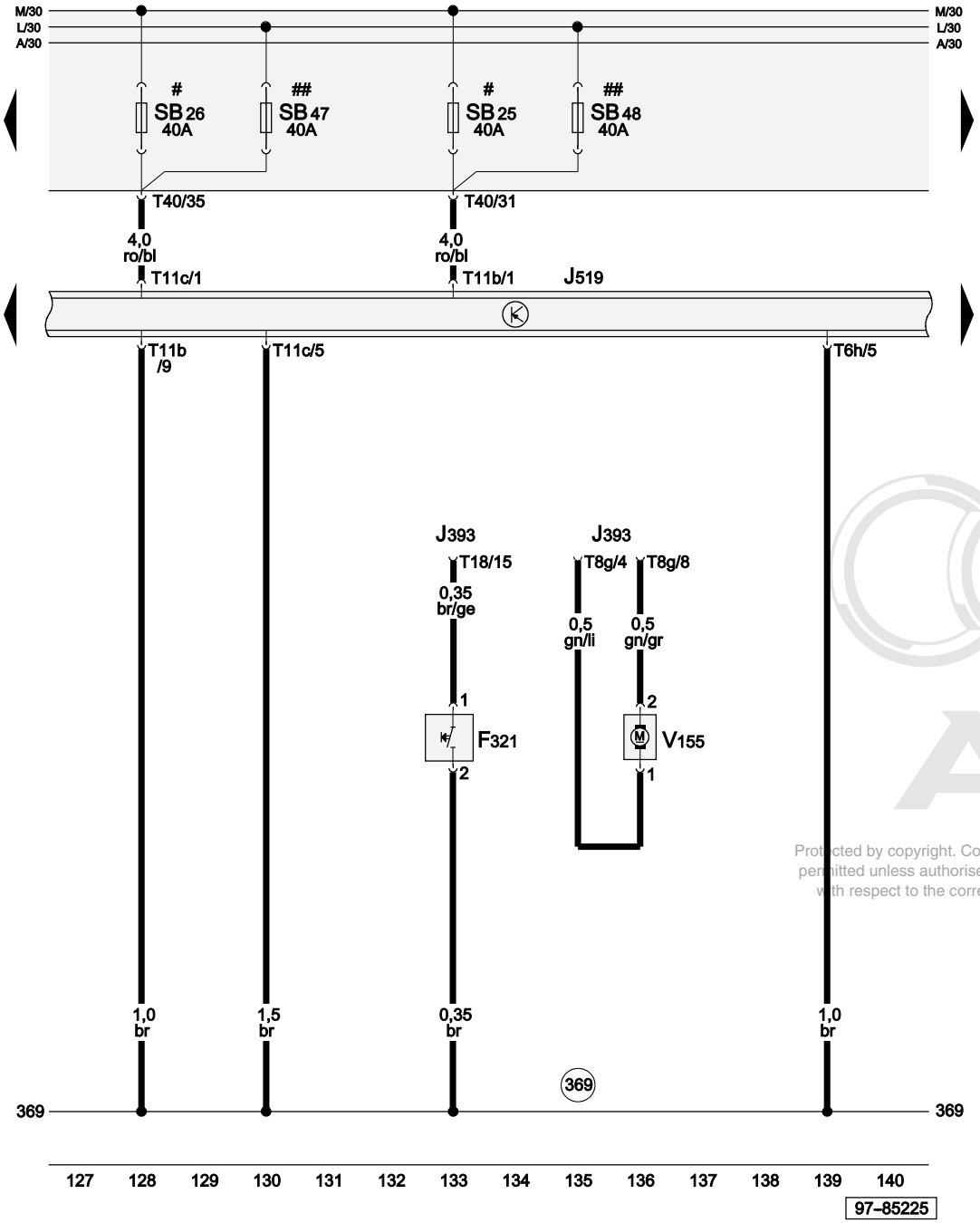


Hazard warning light switch, cigarette lighter, 12 V socket

E3	Hazard warning light switch
J519	Onboard supply control unit
L15	Ashtray illumination bulb
L28	Cigarette lighter illumination bulb
L42	Socket illumination bulb
U1	Cigarette lighter
U5	12 V socket
T12e	12-pin connector, black (connector G)
369	Earth connection 4, in main wiring harness
***	cross-section was increased from 1,5 mm² to 2,5 mm², applicable from November 2005

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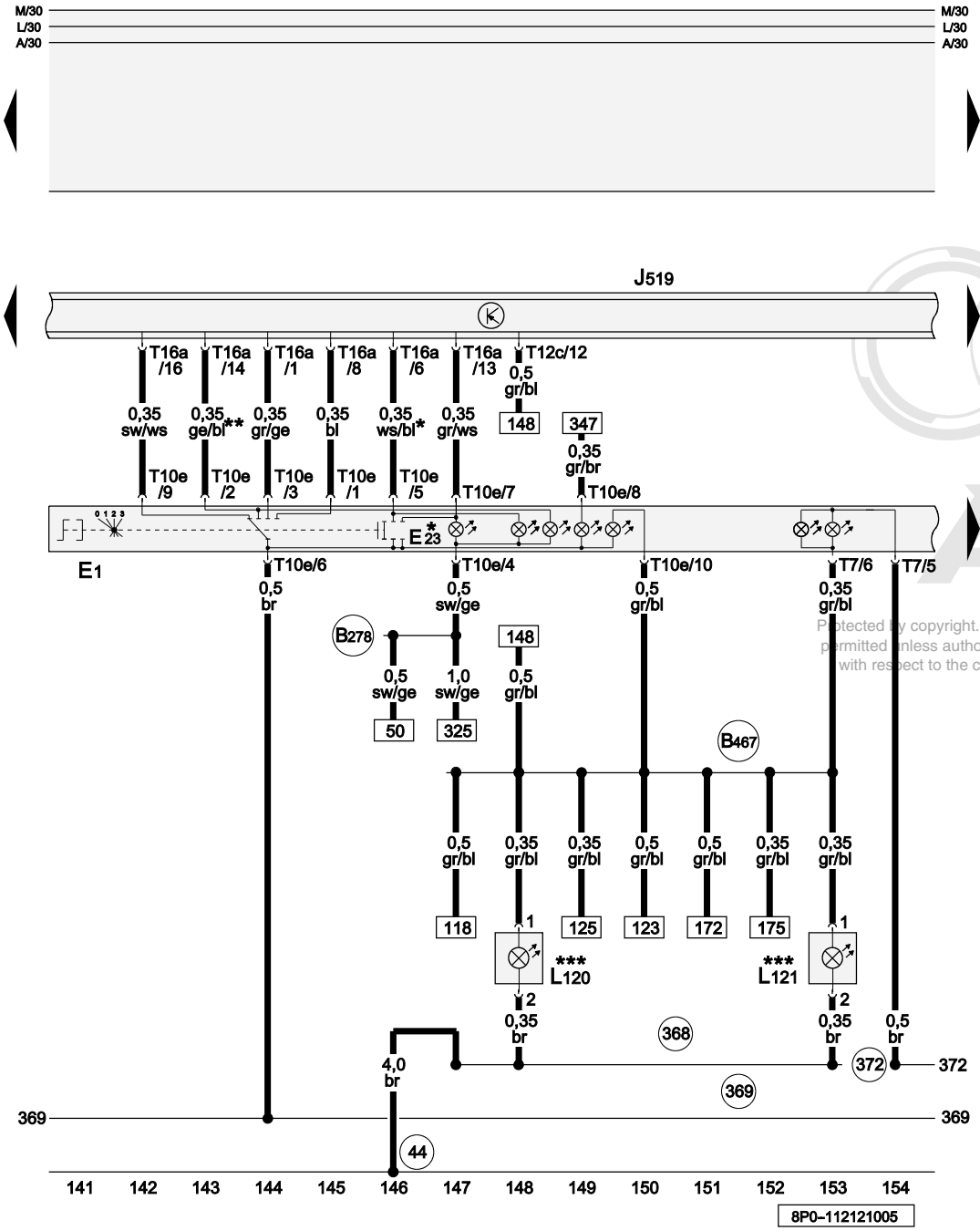


Parking brake contact switch, tank filler flap locking motor

F321	Parking brake contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
SB25	Fuse 25 on fuse holder B
SB26	Fuse 26 on fuse holder B
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
T6h	6-pin connector, black (connector J)
T8g	8-pin connector, black (connector B)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T18	18-pin connector, brown (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V155	Tank filler flap locking motor
(369)	Earth connection 4, in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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or	=	orange
rs	=	pink

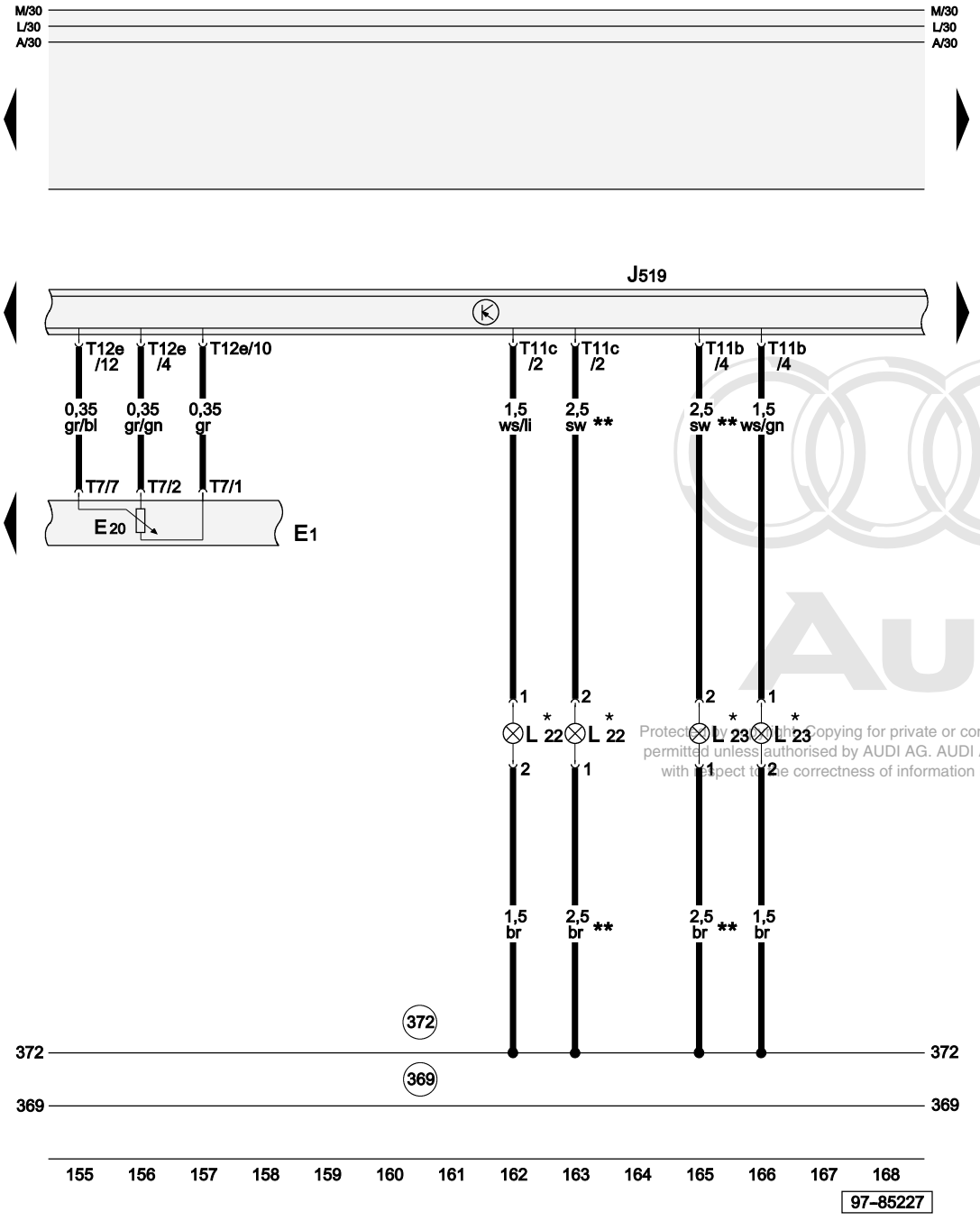


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gr = grey
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Light switch, front and rear fog light switch

E1	Light switch
E23	Front and rear fog light switch
J519	Onboard supply control unit
L120	Storage compartment illumination bulb
L121	Cup holder illumination bulb
T7	7-pin connector, black (connector B)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T16a	16-pin connector, black (connector E)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B467	Connection 3, in main wiring harness
*	for models with front fog light only
**	for models with automatic headlight switching only
***	for models with shelf illumination and cup holder illumination only

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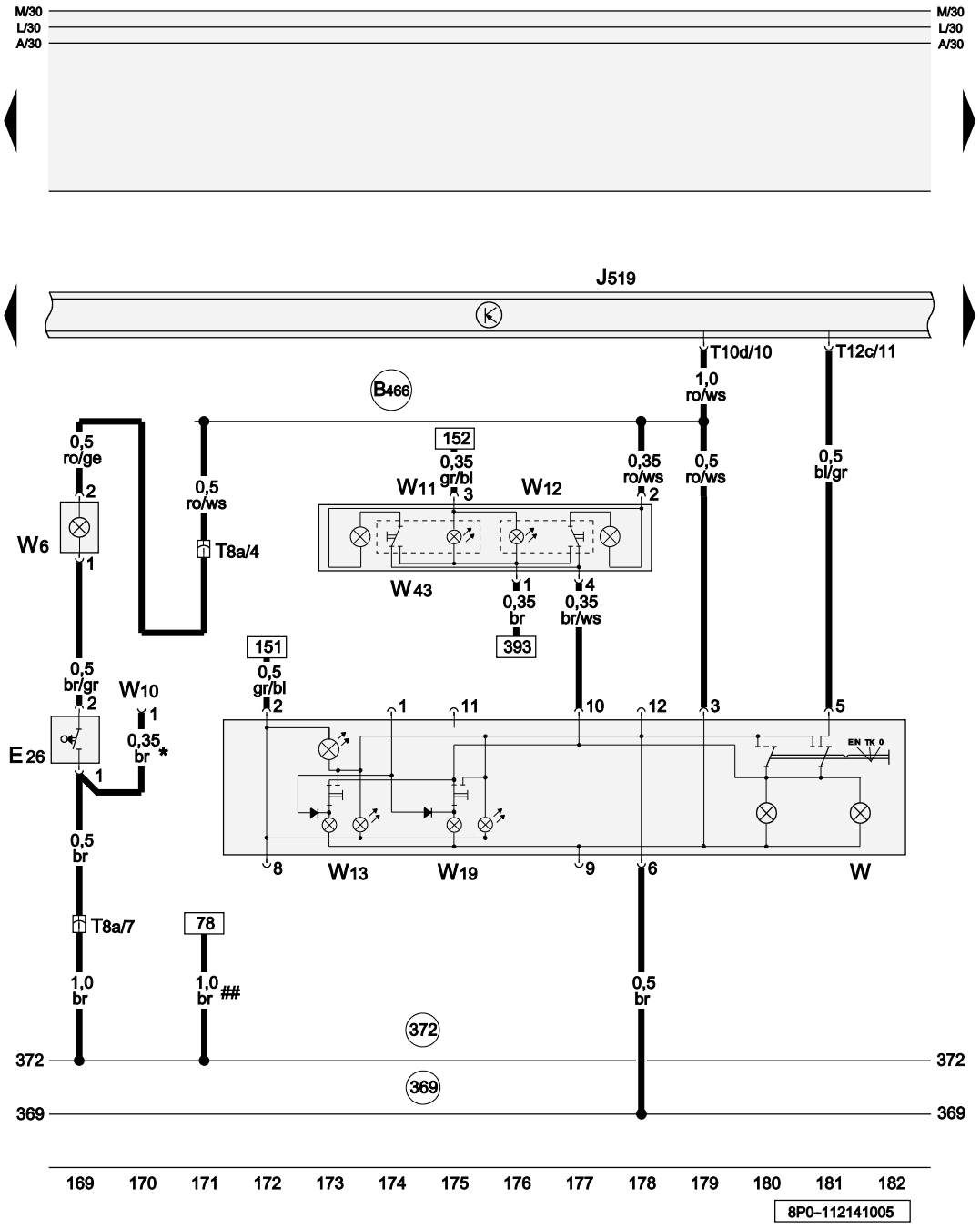


Switches and instruments illumination regulator, left fog light, right fog light

E1	Light switch
E20	Switches and instruments illumination regulator
J519	Onboard supply control unit
L22	Left fog light bulb
L23	Right fog light bulb
T7	7-pin connector, black (connector B)
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T12e	12-pin connector, black (connector G)
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
*	for models with front fog light only
**	for models with S line equipment only

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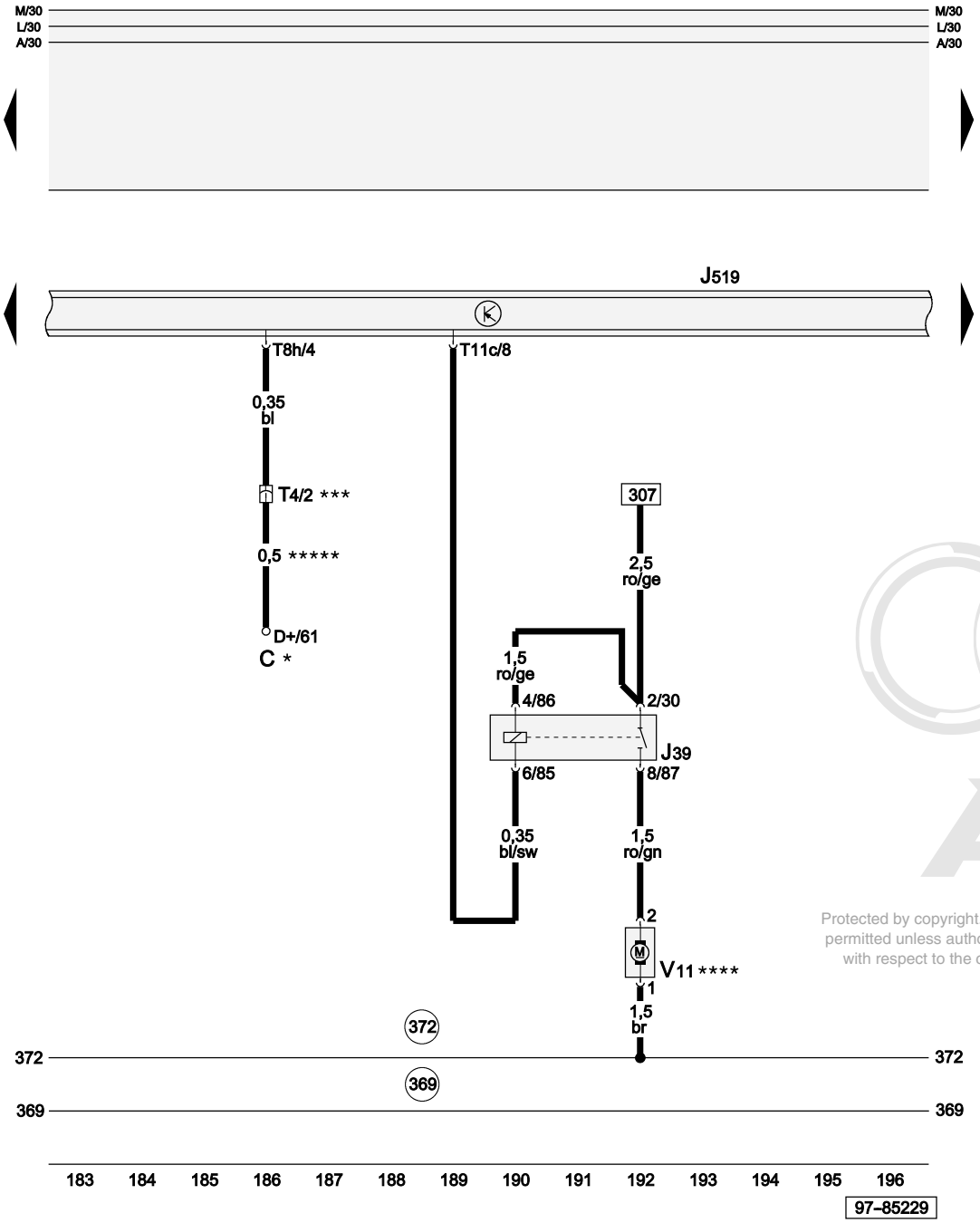


Front interior light, rear interior light, glove compartment light

E26	Glove compartment light switch
J519	Onboard supply control unit
T8a	8-connector, black, near glove compartment
T10d	10-pin connector, black (connector K)
T12c	12-pin connector, black (connector B)
W	Front interior light
W6	Glove compartment light
W10	Right footwell light
W11	Rear left reading light
W12	Rear right reading light
W13	Front passenger side reading light
W19	Driver side reading light
W43	Rear interior light
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B466	Connection 2, in main wiring harness
*	⇒ applicable Current Flow Diagram: convenience system
##	applicable from November 2005

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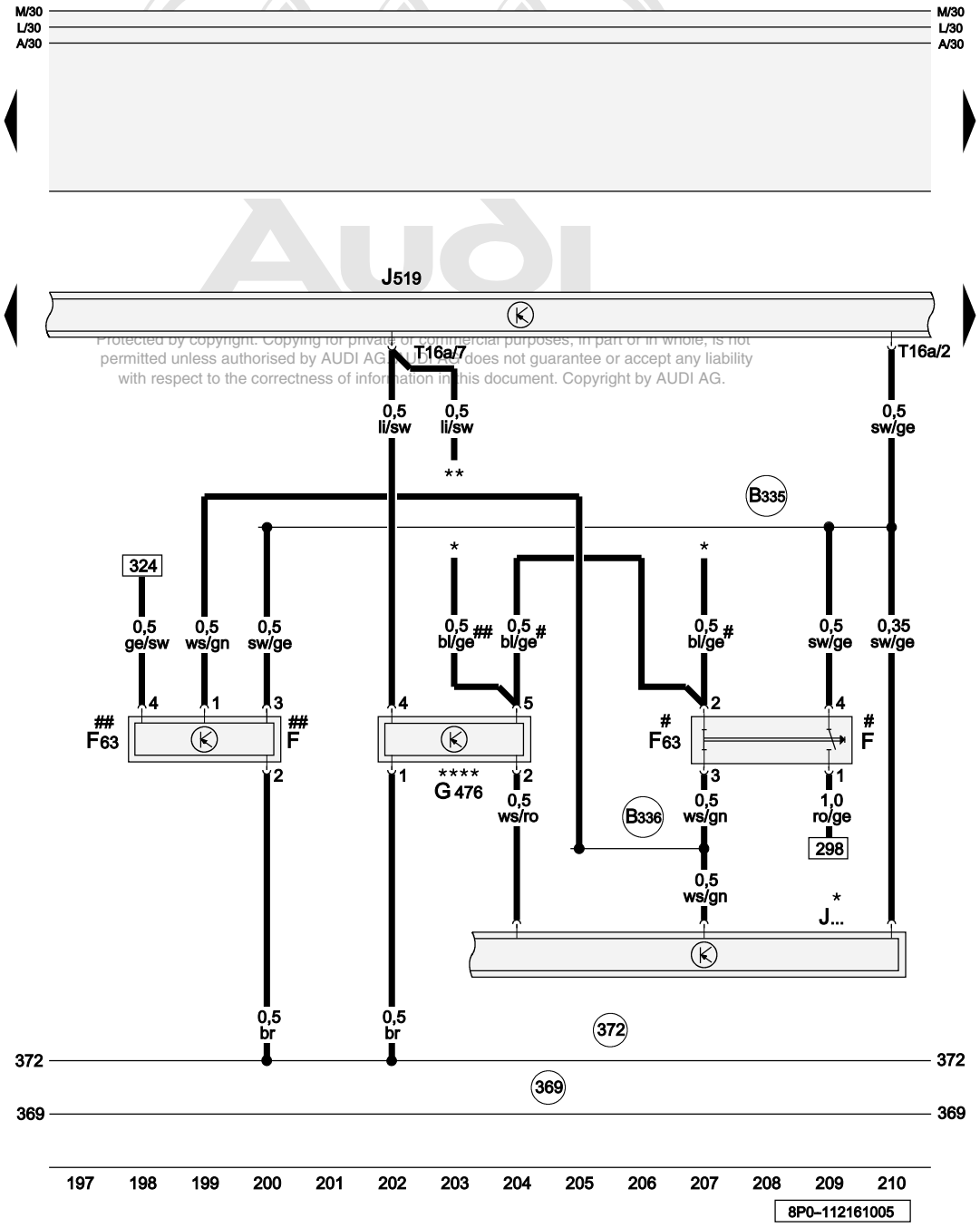


Headlight washer system relay, headlight washer system pump

C	Alternator
J39	Headlight washer system relay
J519	Onboard supply control unit
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T11c	11-pin connector, brown (connector D)
V11	Headlight washer system pump
(369)	Earth connection 4, in main wiring harness
(372)	Earth connection 7, in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in luggage compartment or engine compartment
***	for models with air conditioning system only
****	for models with headlight washer system only
*****	⇒ applicable engine Current Flow Diagram

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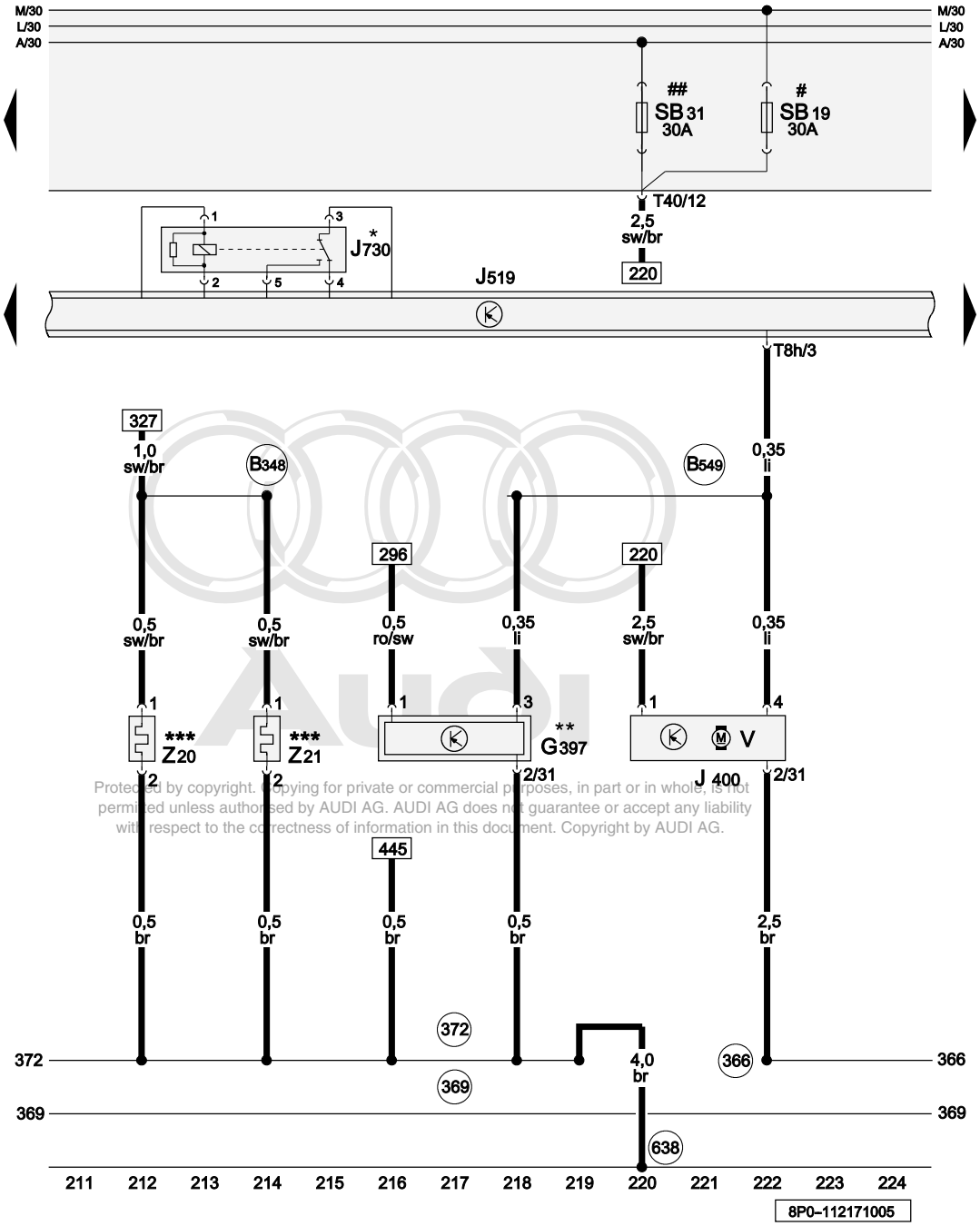


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Brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J...	Engine control units
J519	Onboard supply control unit
T16a	16-pin connector, black (connector E)
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B335	Connection 1 (54), in main wiring harness
B336	Connection 2 (54), in main wiring harness
*	⇒ applicable engine Current Flow Diagram
**	⇒ applicable Current Flow Diagram: automatic gearbox
****	for models with manual gearbox only
#	Is dropped from November 2005
##	applicable from November 2005

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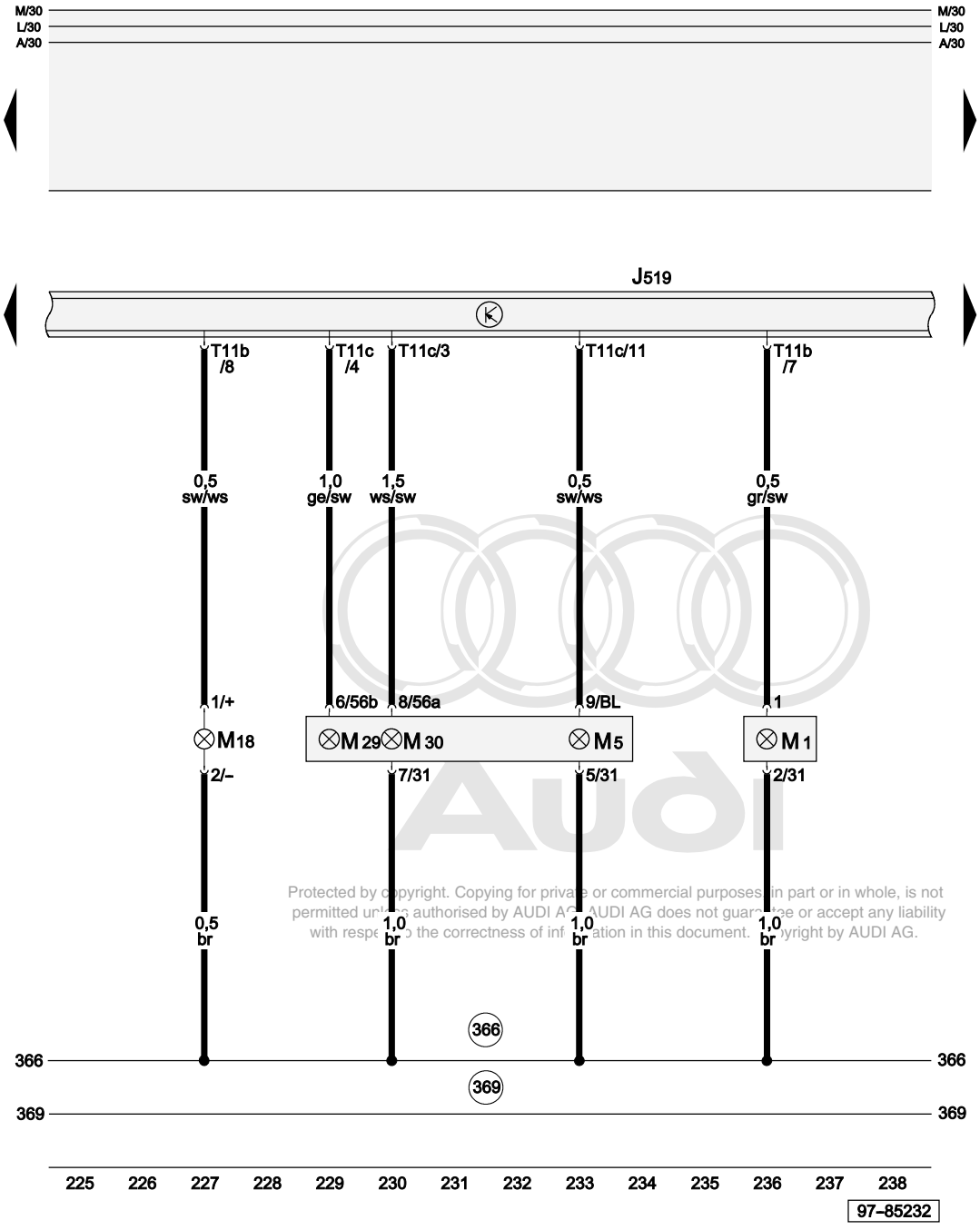


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Rain and light detector sensor, windscreen wiper motor, double washer pump relay 2

G397	Rain and light detector sensor
J400	Wiper motor control unit
J519	Onboard supply control unit
J730	Double washer pump relay 2
SB19	Fuse 19 on fuse holder B
SB31	Fuse 31 on fuse holder B
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V	Windscreen wiper motor
Z20	Left washer jet heater element
Z21	Right washer jet heater element
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B348	Connection 1 (75A), in main wiring harness
B549	Connection 2 (LIN bus), in main wiring harness
*	Washer pump relay, front
**	for models with automatic headlight switching only
***	for models with washer jets heater element only
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

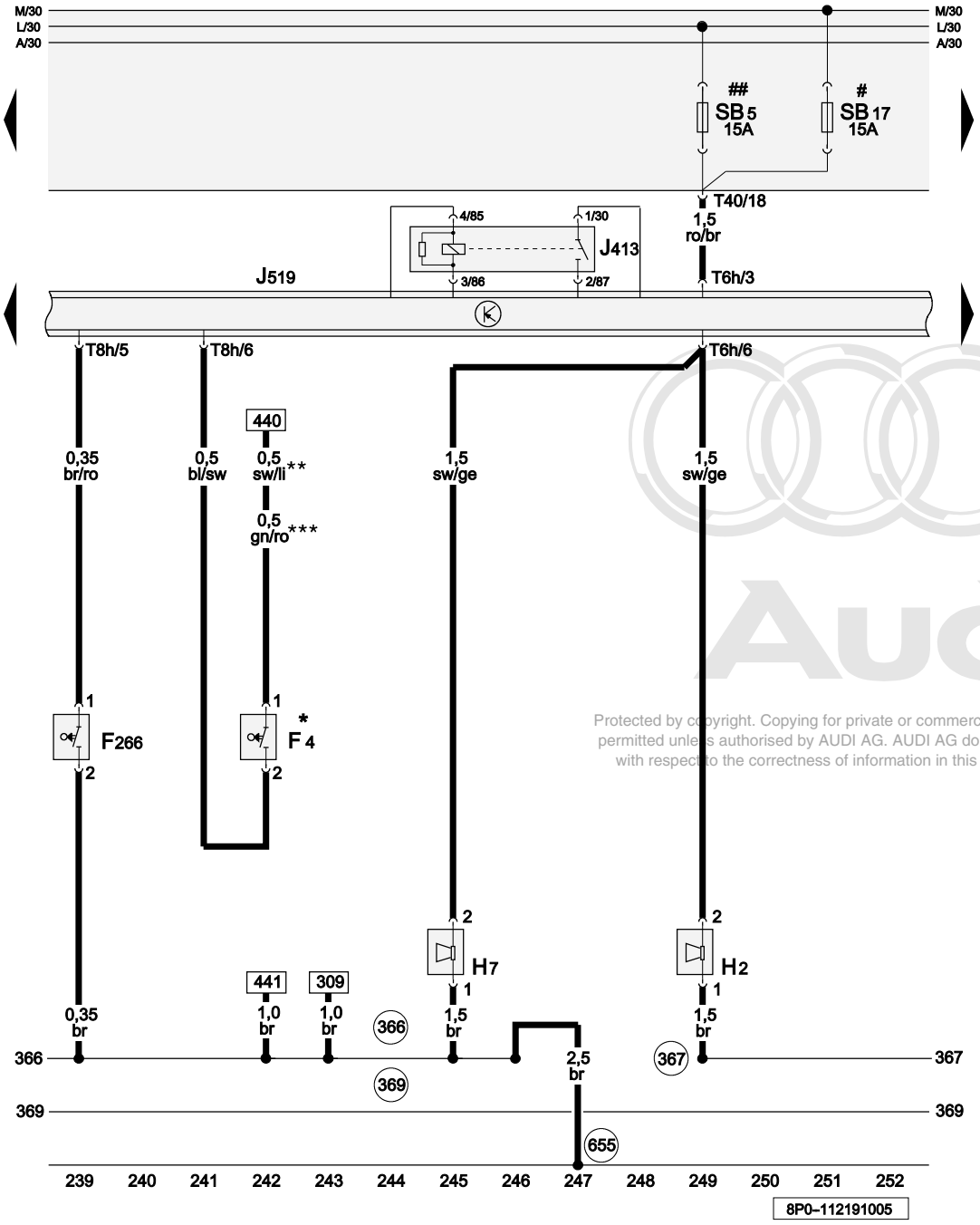


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Left side light, front left turn signal, left side turn signal bulb, left dipped beam, left main beam

J519	Onboard supply control unit
M1	Left side light bulb
M5	Front left turn signal bulb
M18	Left side mounted turn signal bulb
M29	Left dipped beam bulb
M30	Left main beam bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
366	Earth connection 1, in main wiring harness
369	Earth connection 4, in main wiring harness

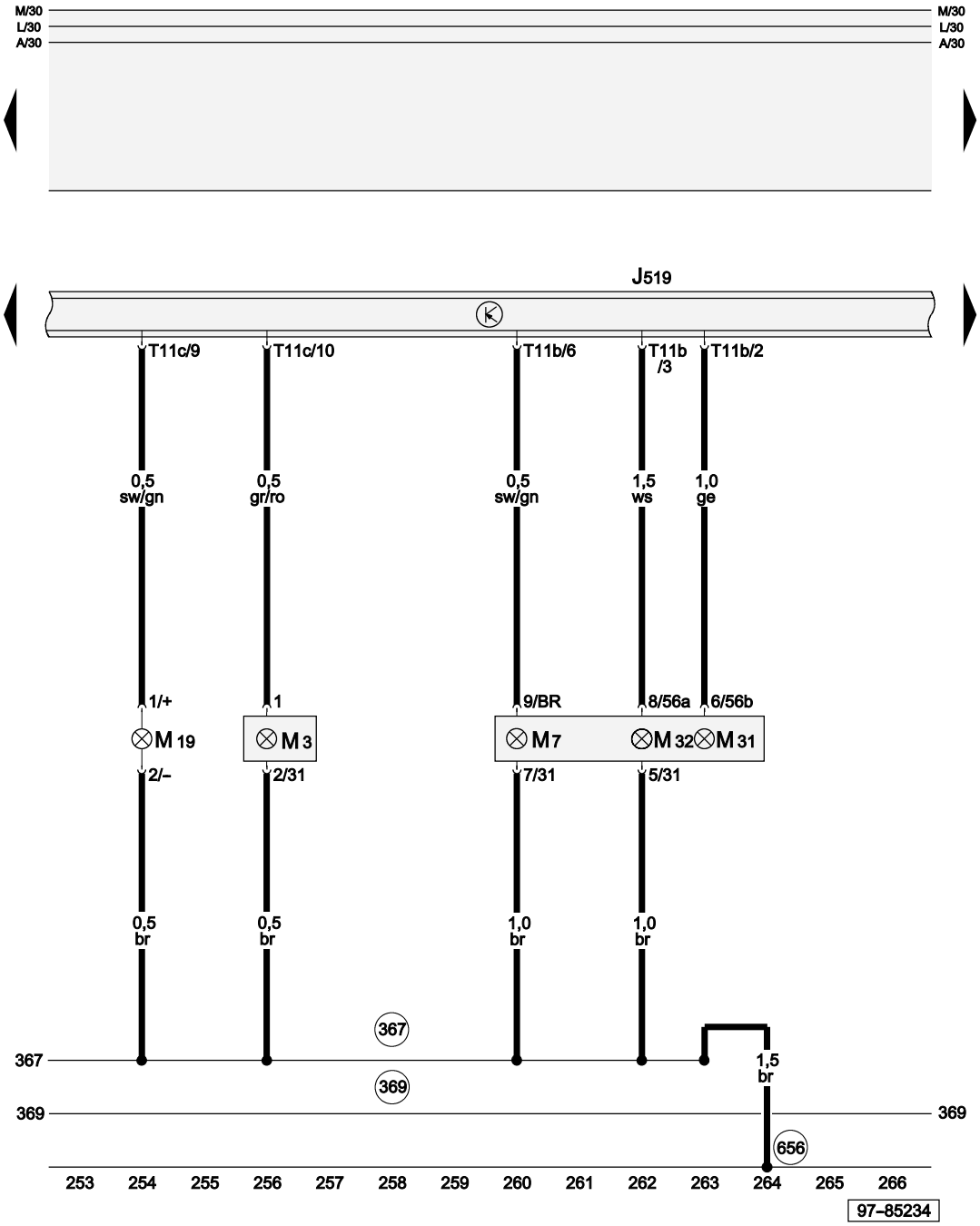


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Reversing light switch, bonnet contact switch, treble tone horn, bass tone horn

F4	Reversing light switch
F266	Bonnet contact switch
H2	Treble tone horn
H7	Bass tone horn
J413	Horn relay
J519	Onboard supply control unit
SB5	Fuse 5 on fuse holder B
SB17	Fuse 17 on fuse holder B
T6h	6-pin connector, black (connector J)
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
655	Earth point, on left headlight
*	for models with manual gearbox only
**	phased-in modification
***	No longer fitted, phased-in modification
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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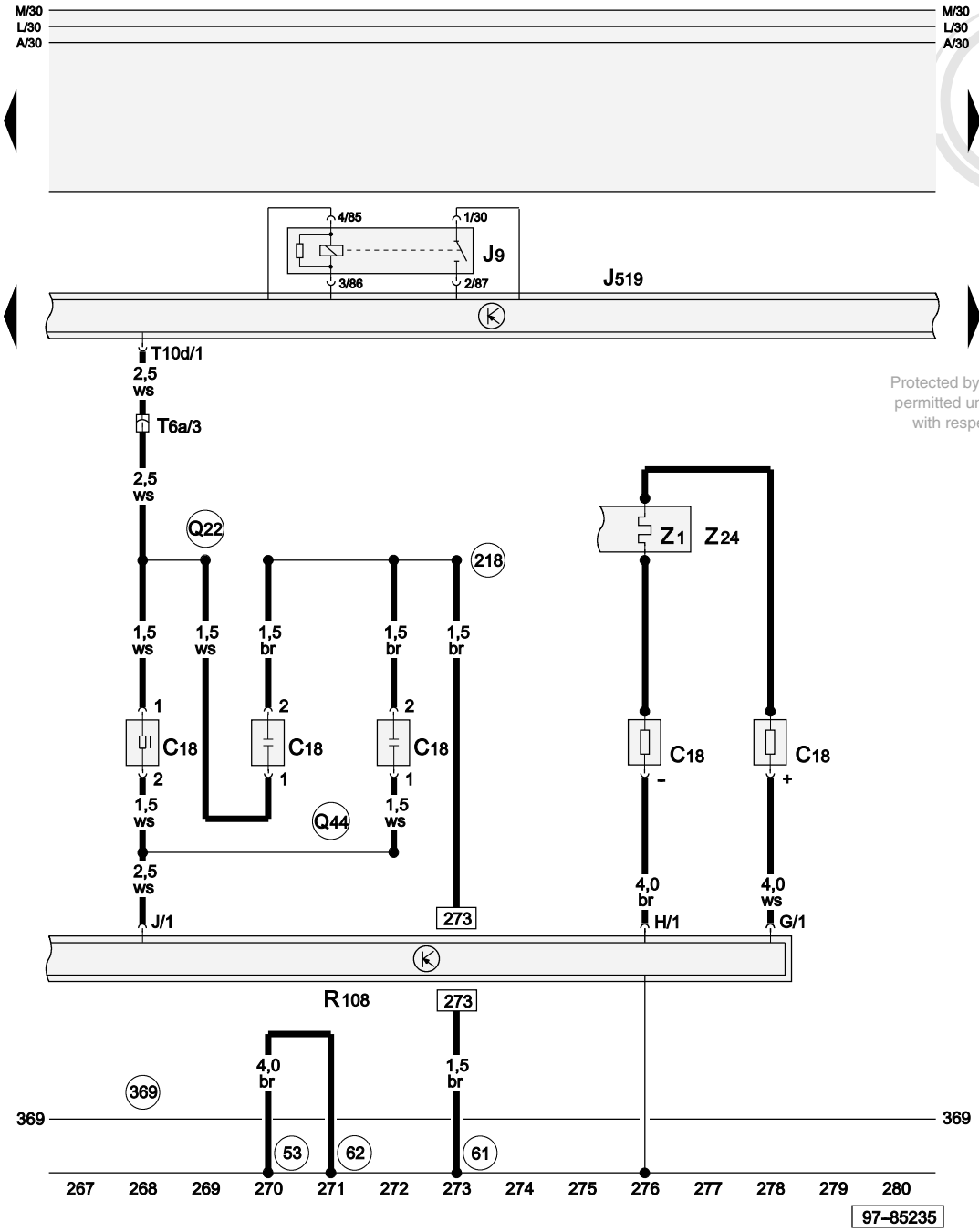


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Right side light, front right turn signal, right side turn signal bulb, right dipped beam, right main beam

J519	Onboard supply control unit
M3	Right side light bulb
M7	Front right turn signal bulb
M19	Right side mounted turn signal bulb
M31	Right dipped beam bulb
M32	Right main beam bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
367	Earth connection 2, in main wiring harness
369	Earth connection 4, in main wiring harness
656	Earth point, on right headlight

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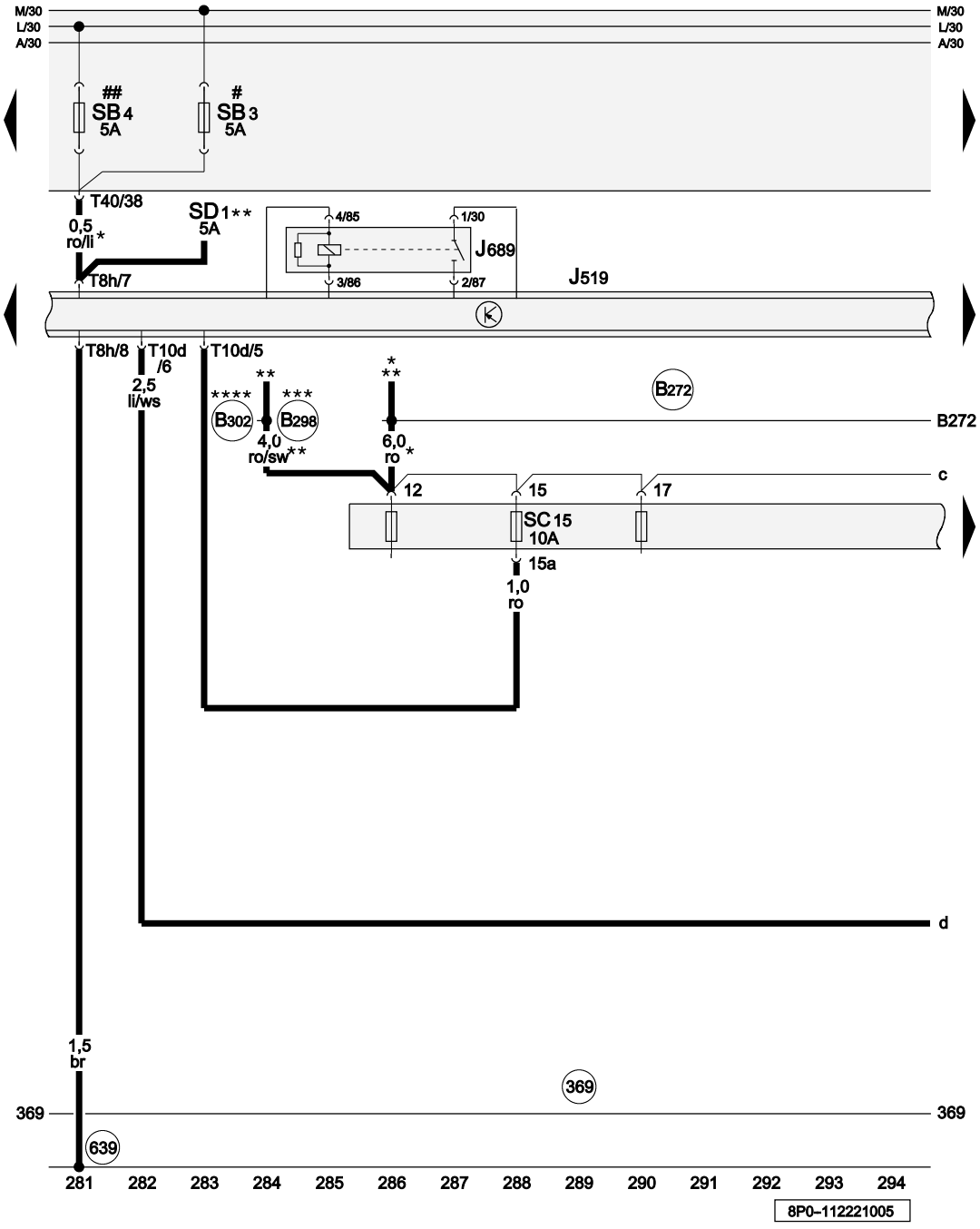


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Heated rear window relay, window aerial suppression filter, heated rear window

C18	Window aerial suppression filter
J9	Heated rear window relay
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
53	Earth point, on right in rear lid
61	Earth point, left C-pillar
62	Earth point, right C-pillar
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness

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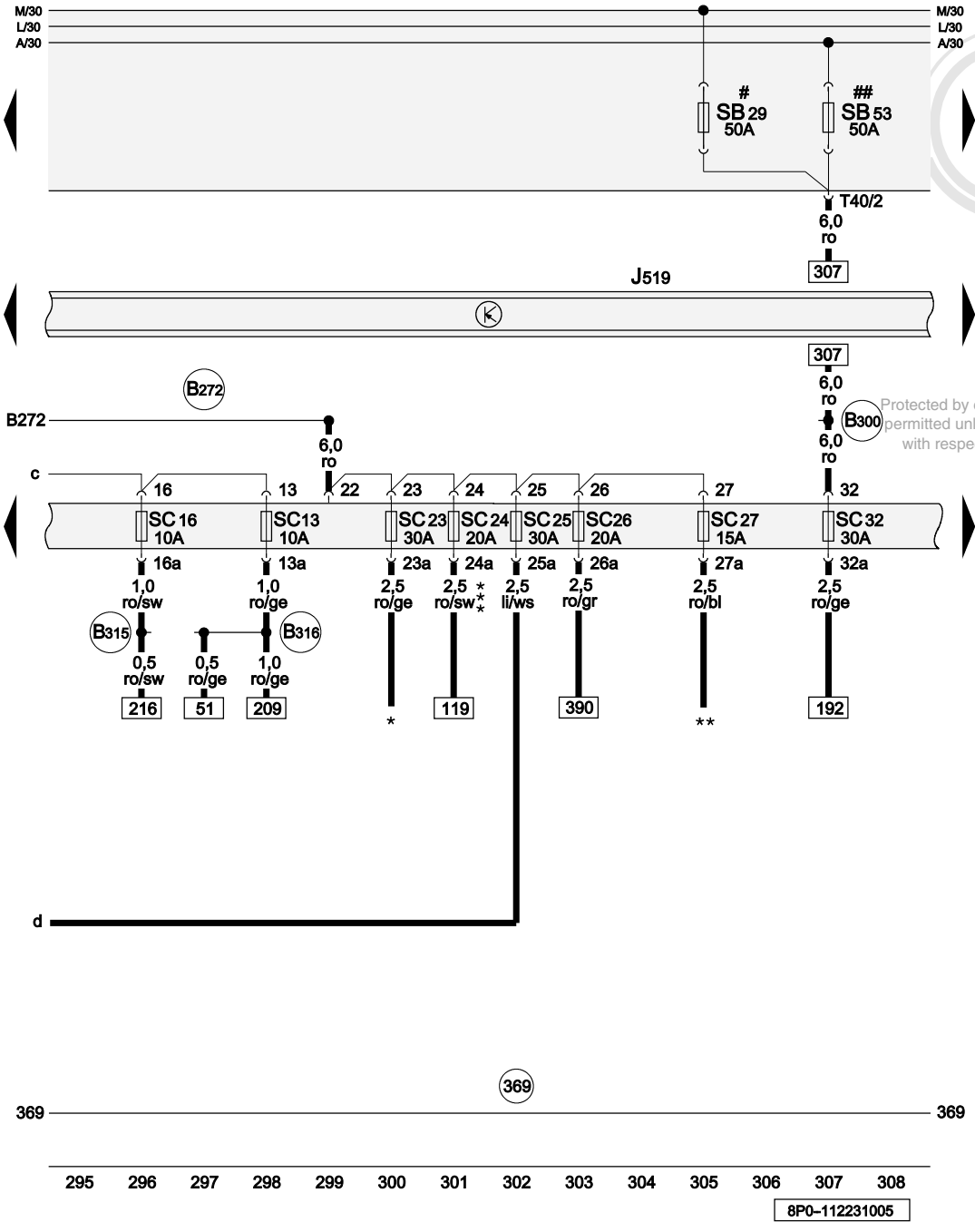


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Terminal 30 voltage supply relay 2, fuses on fuse holder

J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
SB3	Fuse 3 on fuse holder B
SB4	Fuse 4 on fuse holder B
SC15	Fuse 15 on fuse holder C
SD1	Fuse 1 on fuse holder D
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
639	Earth point, left A-pillar
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B302	Positive connection 6 (30), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	⇒ applicable Current Flow Diagram with battery in luggage compartment
***	Is dropped from November 2005
****	applicable from November 2005
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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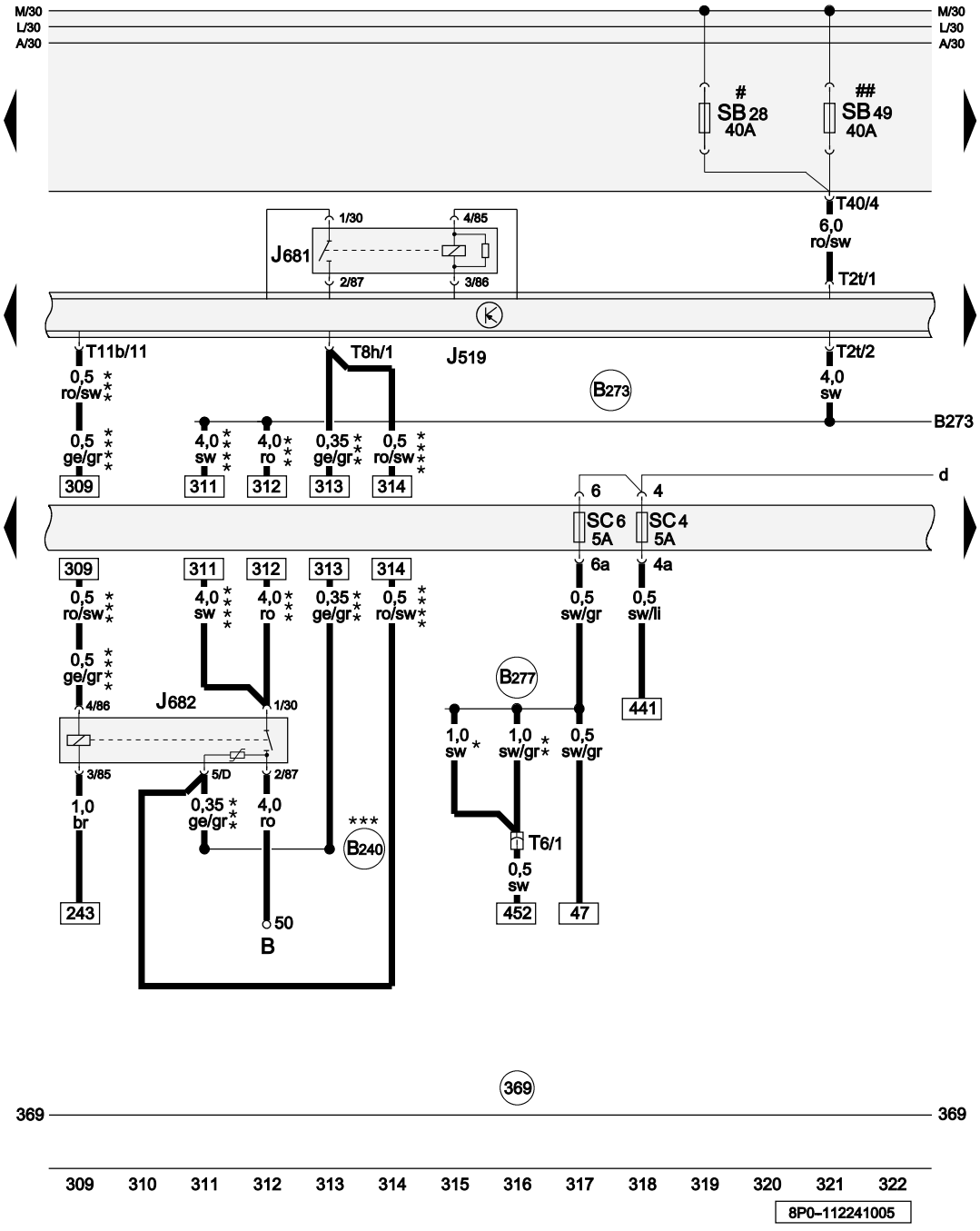


Fuses on fuse holder

J519	Onboard supply control unit
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC13	Fuse 13 on fuse holder C
SC16	Fuse 16 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC24	Fuse 24 on fuse holder C
SC25	Fuse 25 on fuse holder C
SC26	Fuse 26 on fuse holder C
SC27	Fuse 27 on fuse holder C
SC32	Fuse 32 on fuse holder C
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B272	Positive connection (30), in main wiring harness
B315	Positive connection 1 (30a), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
*	⇒ applicable Current Flow Diagram: convenience system
**	⇒ applicable engine Current Flow Diagram
***	cross-section was increased from 1,5 mm² to 2,5 mm², applicable from November 2005
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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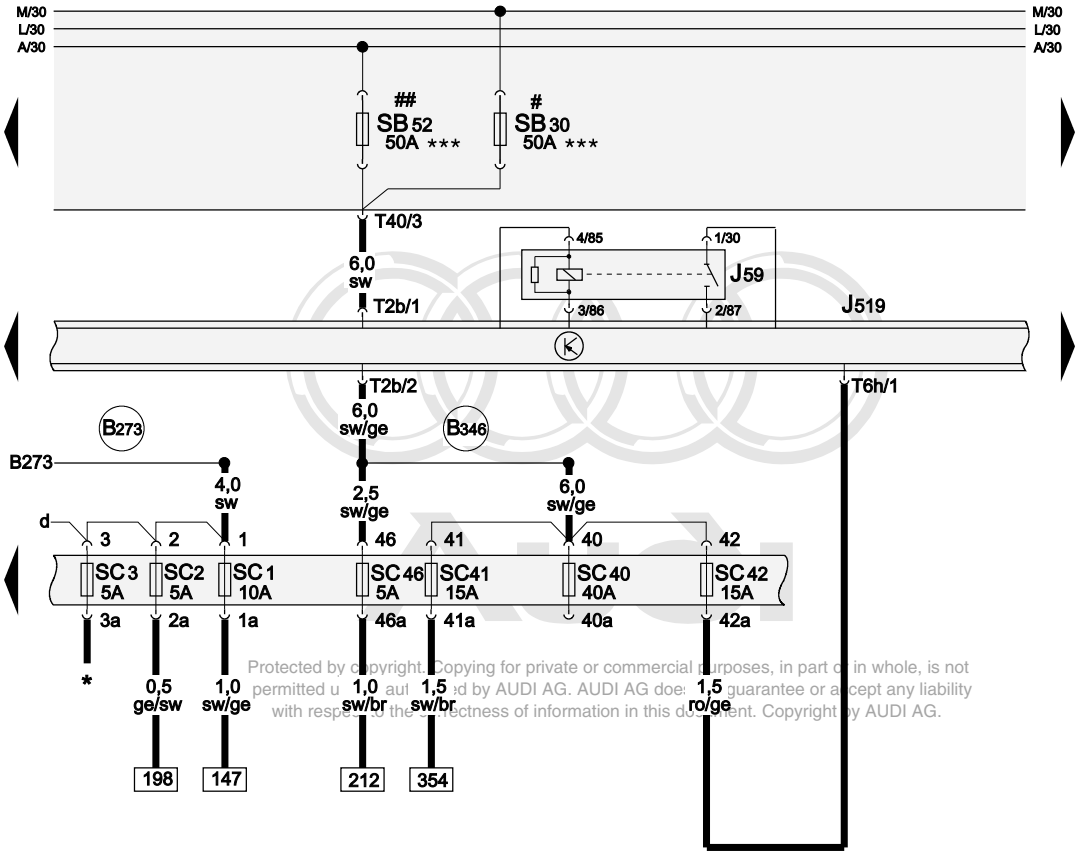


Terminal 15 voltage supply relay, fuses on fuse holder

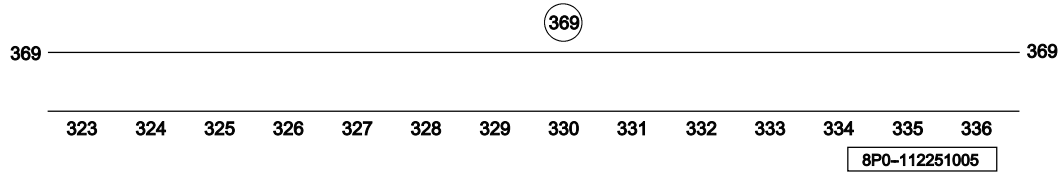
B	Starter
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
J682	Terminal 50 voltage supply relay
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC4	Fuse 4 on fuse holder C
SC6	Fuse 6 on fuse holder C
T2t	2-pin connector, black (connector L)
T6	6-pin connector, black, near longitudinal member, front left
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B240	Positive connection 2 (50), in interior wiring harness
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
*	No longer fitted, phased-in modification
**	phased-in modification
***	Is dropped from November 2005
****	applicable from November 2005
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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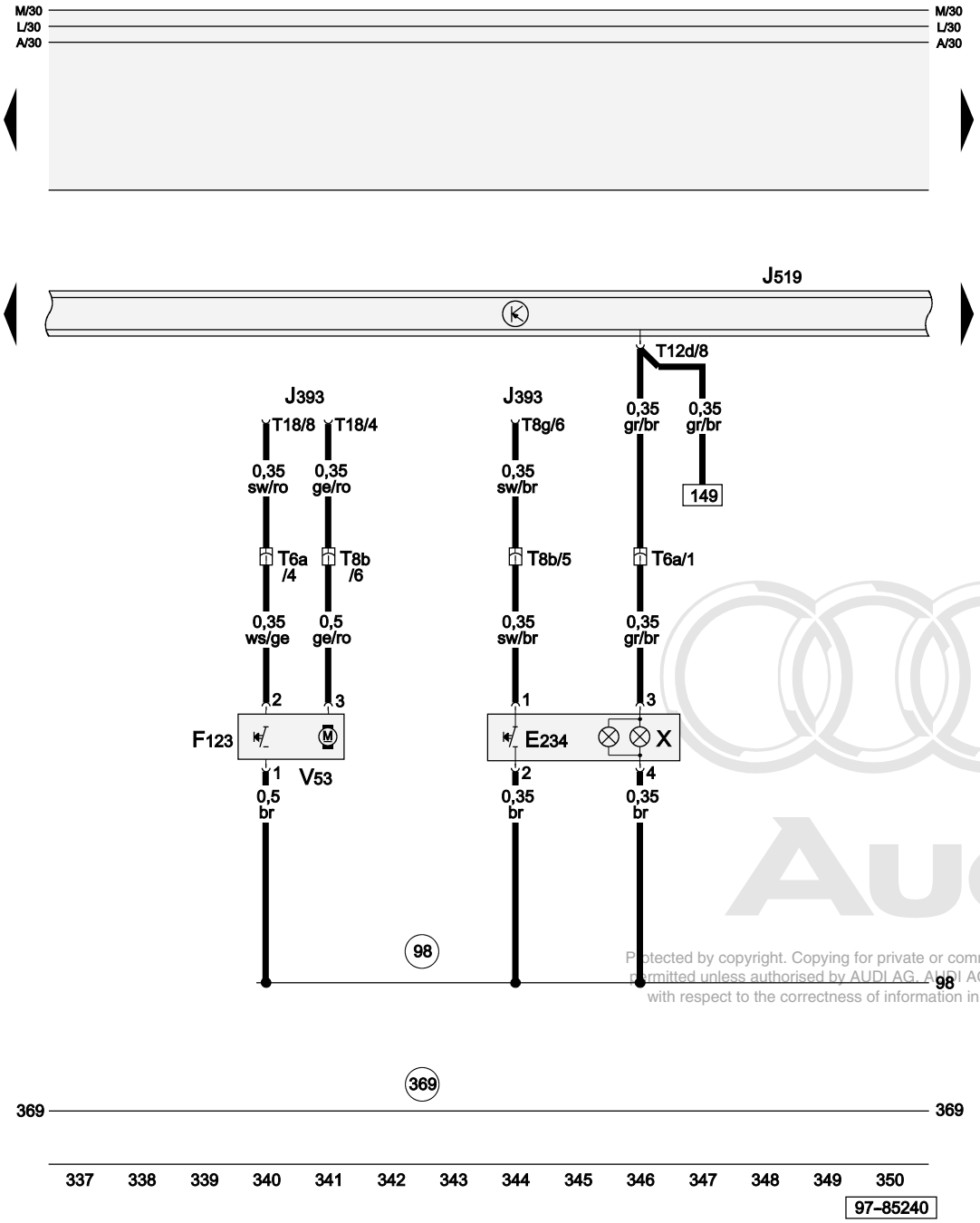
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X-contact relief relay, fuses on fuse holder

J59	X-contact relief relay
J519	Onboard supply control unit
SB30	Fuse 30 on fuse holder B
SB52	Fuse 52 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC3	Fuse 3 on fuse holder C
SC40	Fuse 40 on fuse holder C
SC41	Fuse 41 on fuse holder C
SC42	Fuse 41 on fuse holder C
SC46	Fuse 46 on fuse holder C
T2b	2-pin connector, brown (connector I)
T6h	6-pin connector, black (connector J)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B273	Positive connection (15), in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	⇒ applicable Current Flow Diagram: airbag
***	Fuse was increased from 40 A to 50 A, applicable from November 2005
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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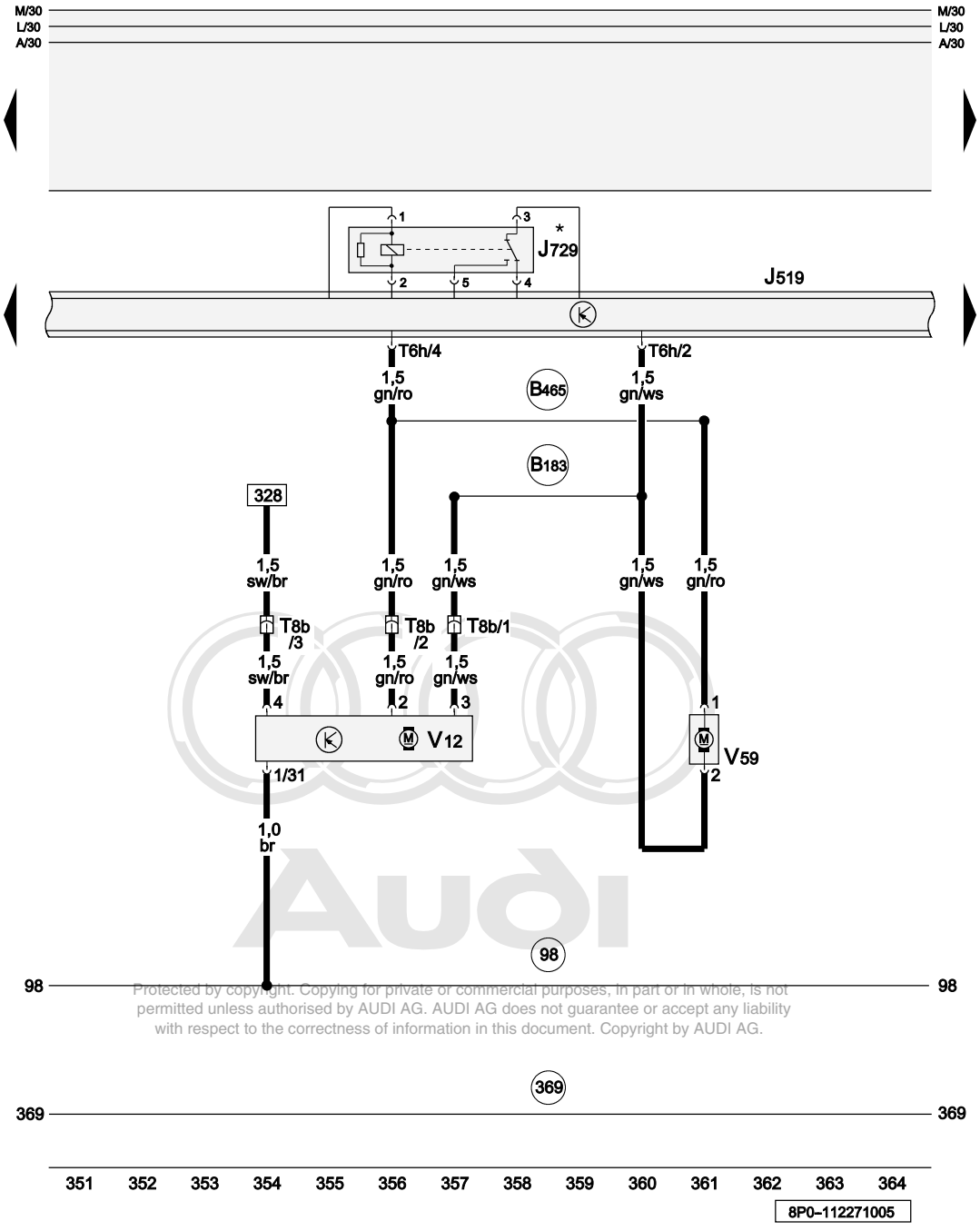


Rear lid contact switch for anti-theft alarm, rear lid central locking motor, number plate light

E234	Rear lid handle release button
F123	Rear lid contact switch for anti-theft alarm system
J393	Convenience system central control unit
J519	Onboard supply control unit
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
T18	18-pin connector, brown (connector A)
V53	Rear lid central locking motor
X	Number plate light
98	Earth connection, in rear lid wiring harness
369	Earth connection 4, in main wiring harness

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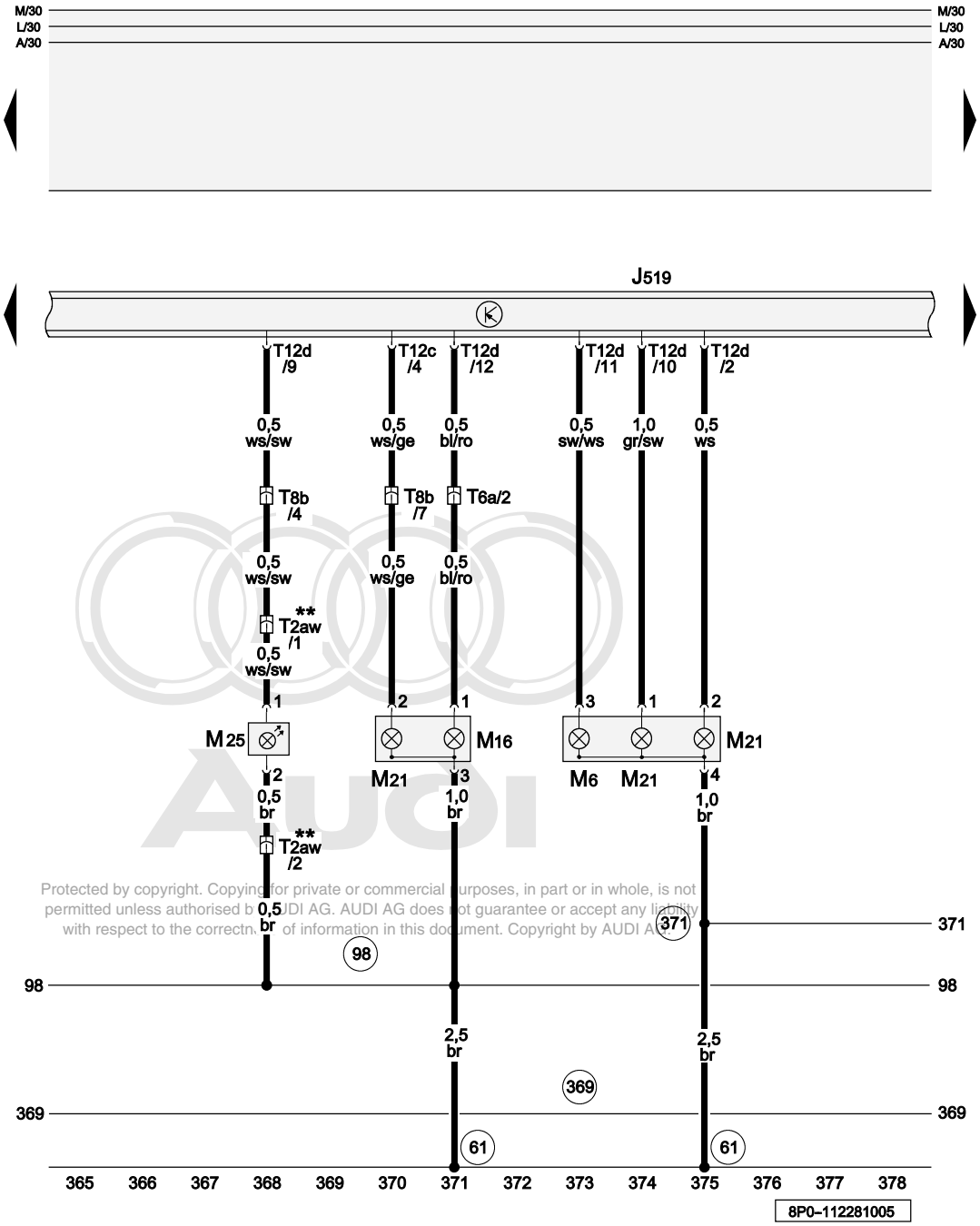


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Rear window wiper motor, windscreen and rear window washer pump

J519	Onboard supply control unit
J729	Double washer pump relay 1
T6h	6-pin connector, black (connector J)
T8b	8-pin connector, brown, on left C-pillar
V12	Rear window wiper motor
V59	Windscreen and rear window washer pump
98	Earth connection, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
B183	Connection 1 (washer pump), in interior wiring harness
B465	Connection 1, in main wiring harness
*	Rear window washer pump relay

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

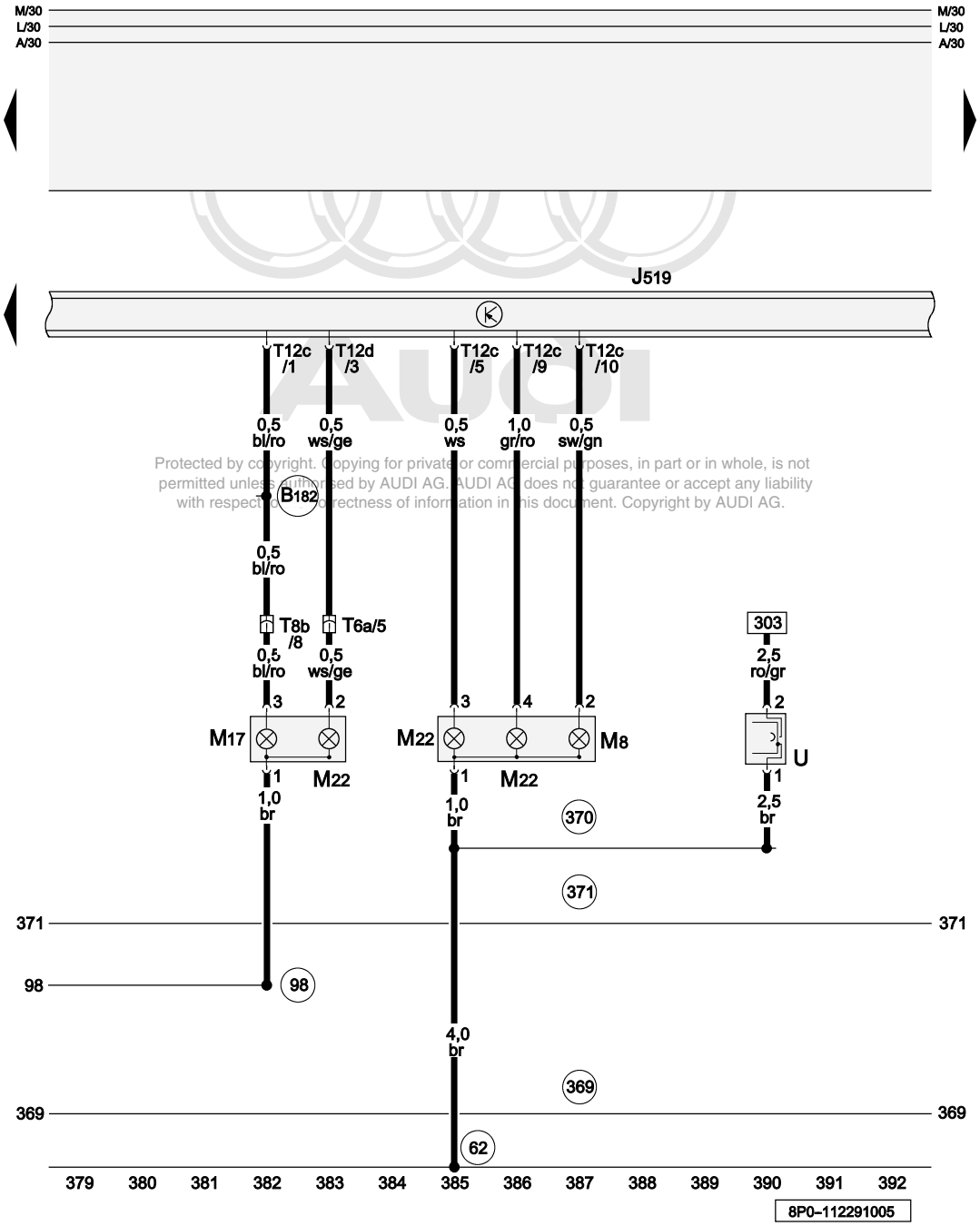


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Left tail light, left tail light, rear left turn signal, left brake light, left reversing light

J519	Onboard supply control unit
M6	Rear left turn signal bulb
M16	Left reversing light bulb
M21	Left brake and tail light bulb
M25	High level brake light bulb
T2aw	2-pin connector, black, on right in rear lid
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
61	Earth point, left C-pillar
98	Earth connection, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
**	for models with S line equipment only

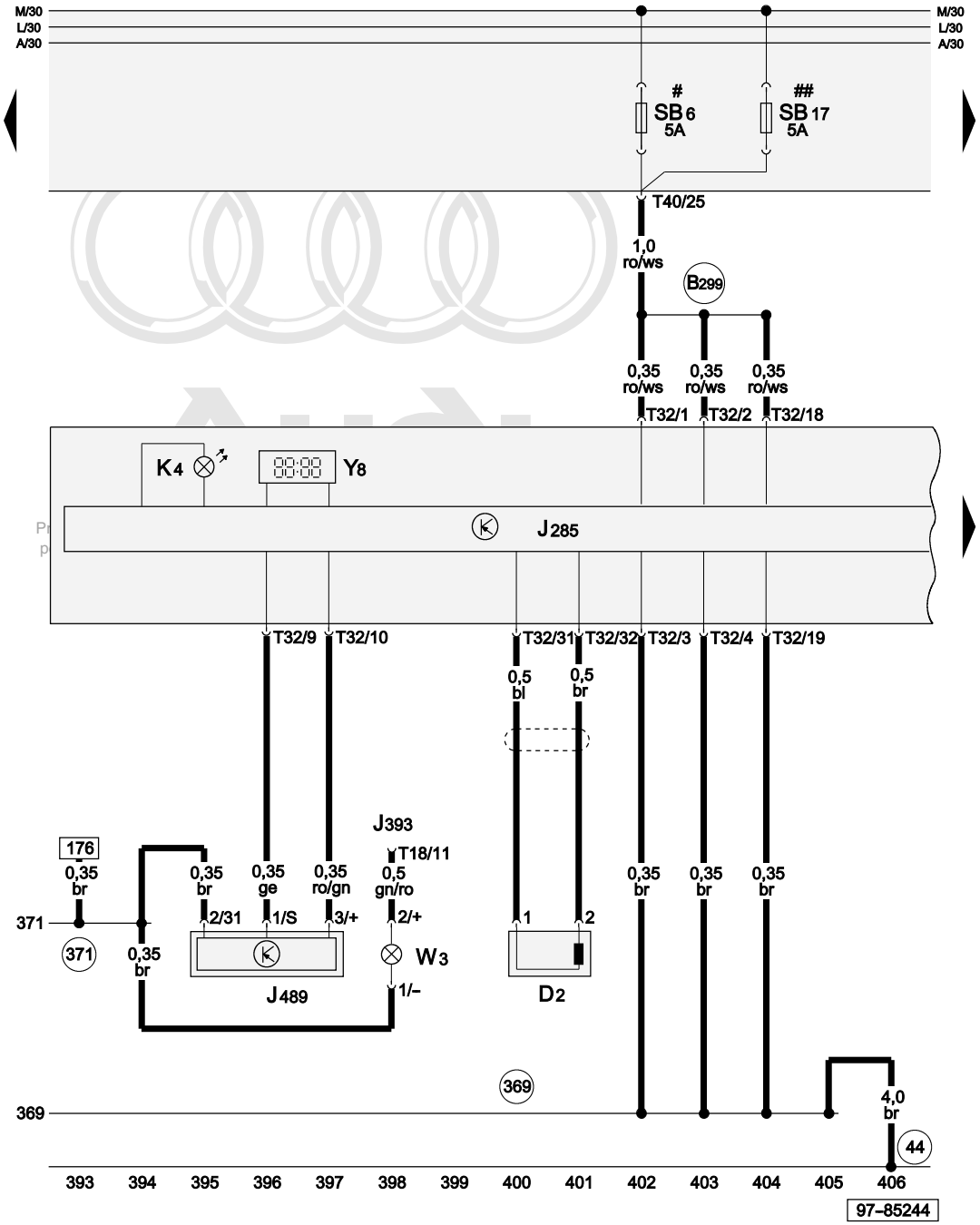


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rs = pink

Right tail light, rear right turn signal, right brake light, right reversing light

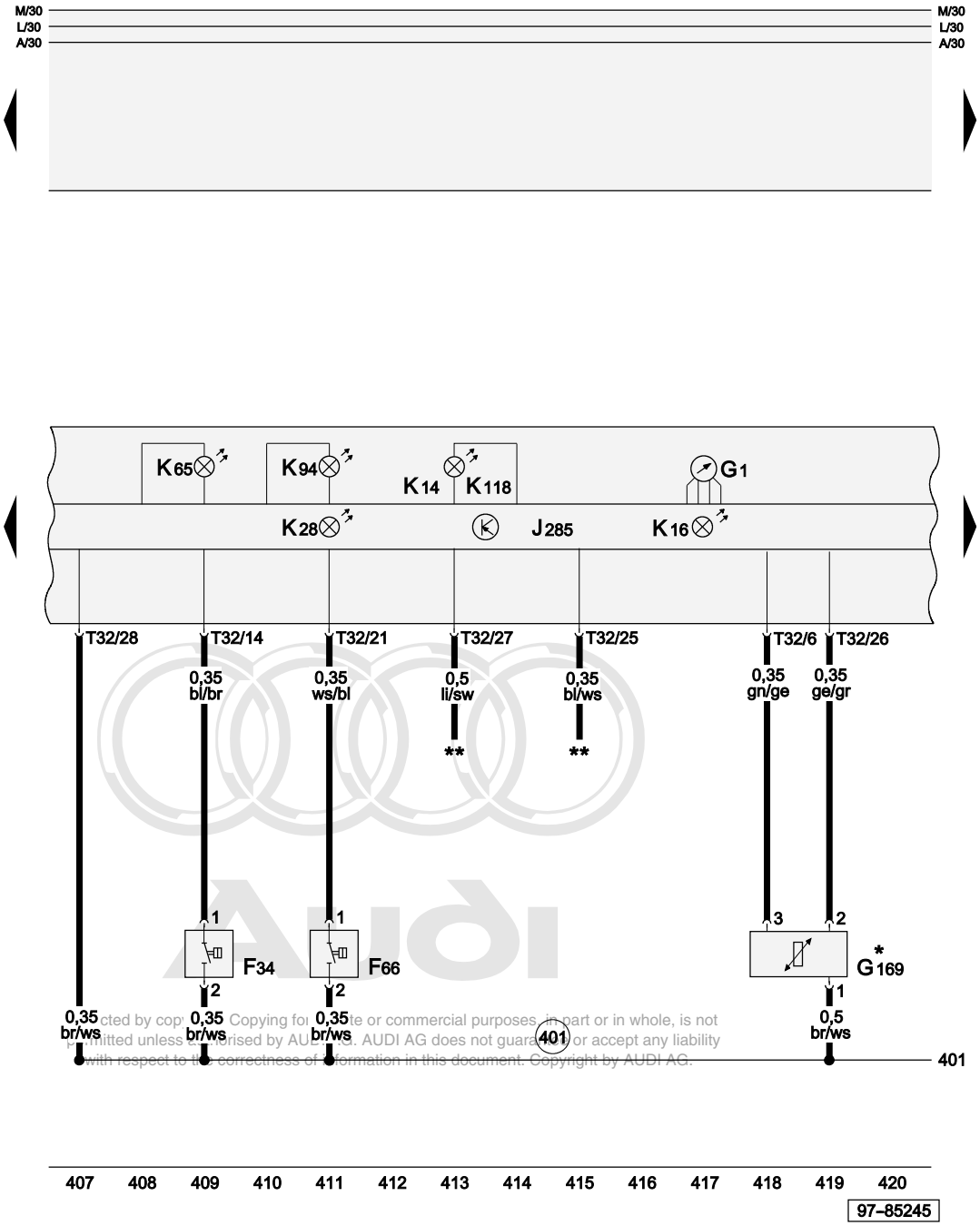
J519	Onboard supply control unit
M8	Rear right turn signal bulb
M17	Right reversing light bulb
M22	Right brake and tail light bulb
T6a	6-pin connector, black, on left C-pillar
T8b	8-pin connector, brown, on left C-pillar
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
U	Electric socket
62	Earth point, right C-pillar
98	Earth connection, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
B182	Connection (RL), in interior wiring harness



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Control unit in dash panel insert, radio controlled clock, luggage compartment light

D2	Immobilizer reader coil
J285	Control unit in dash panel insert
J393	Convenience system central control unit
J489	Radio controlled clock receiver
K4	Side light warning lamp
SB6	Fuse 6 on fuse holder B
SB17	Fuse 17 on fuse holder B
T18	18-pin connector, brown (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
W3	Luggage compartment light
Y8	Radio controlled clock
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
B299	Positive connection 3 (30), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

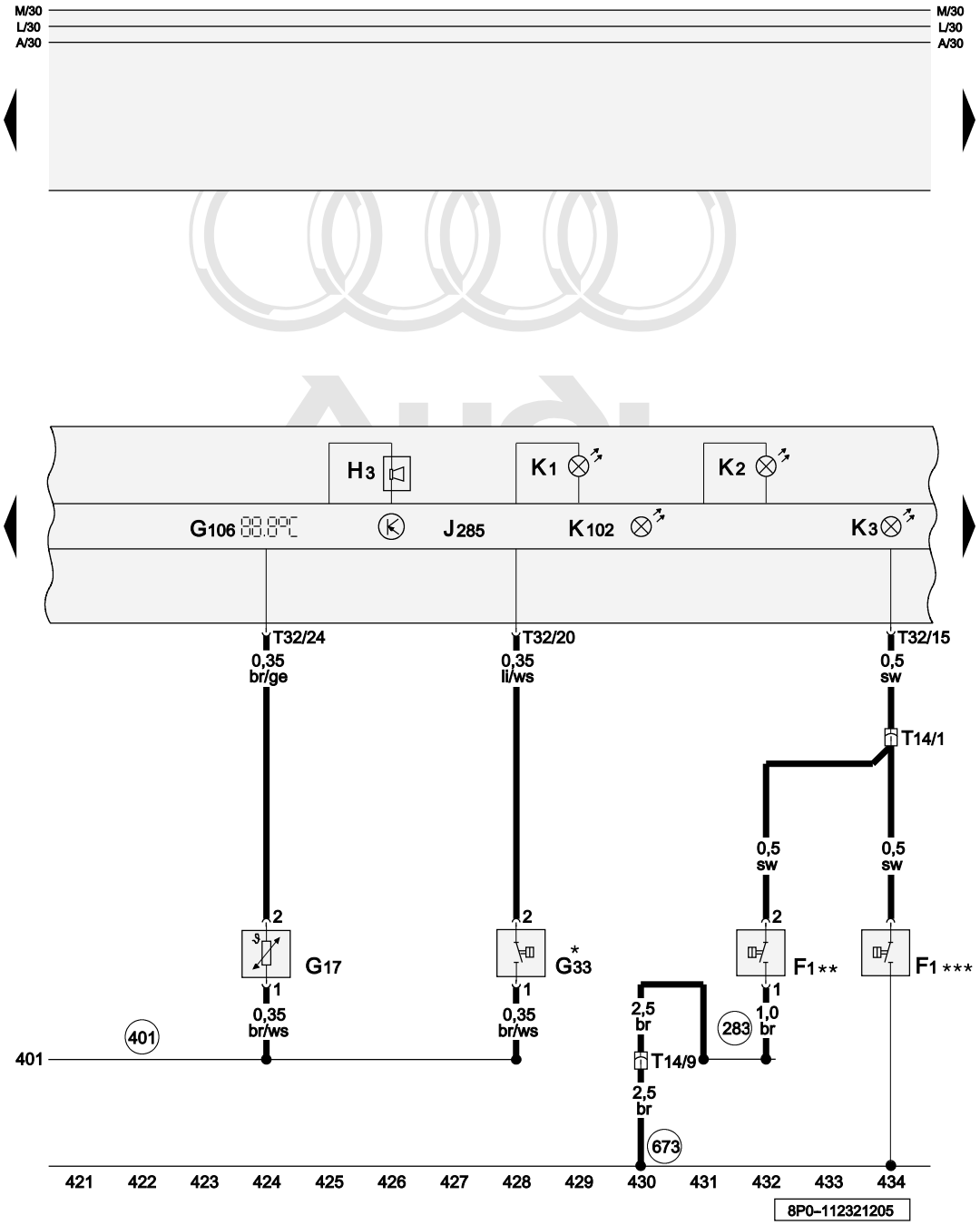


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Control unit in dash panel insert, fuel gauge, coolant shortage indicator switch

F34	Brake fluid level warning contact
F66	Coolant shortage indicator switch
G1	Fuel gauge
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
K14	Handbrake warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
T32	32-pin connector, blue (connector A)
(401)	Earth connection (sender earth), in interior wiring harness
*	for models with four-wheel drive only
**	⇒ applicable engine Current Flow Diagram

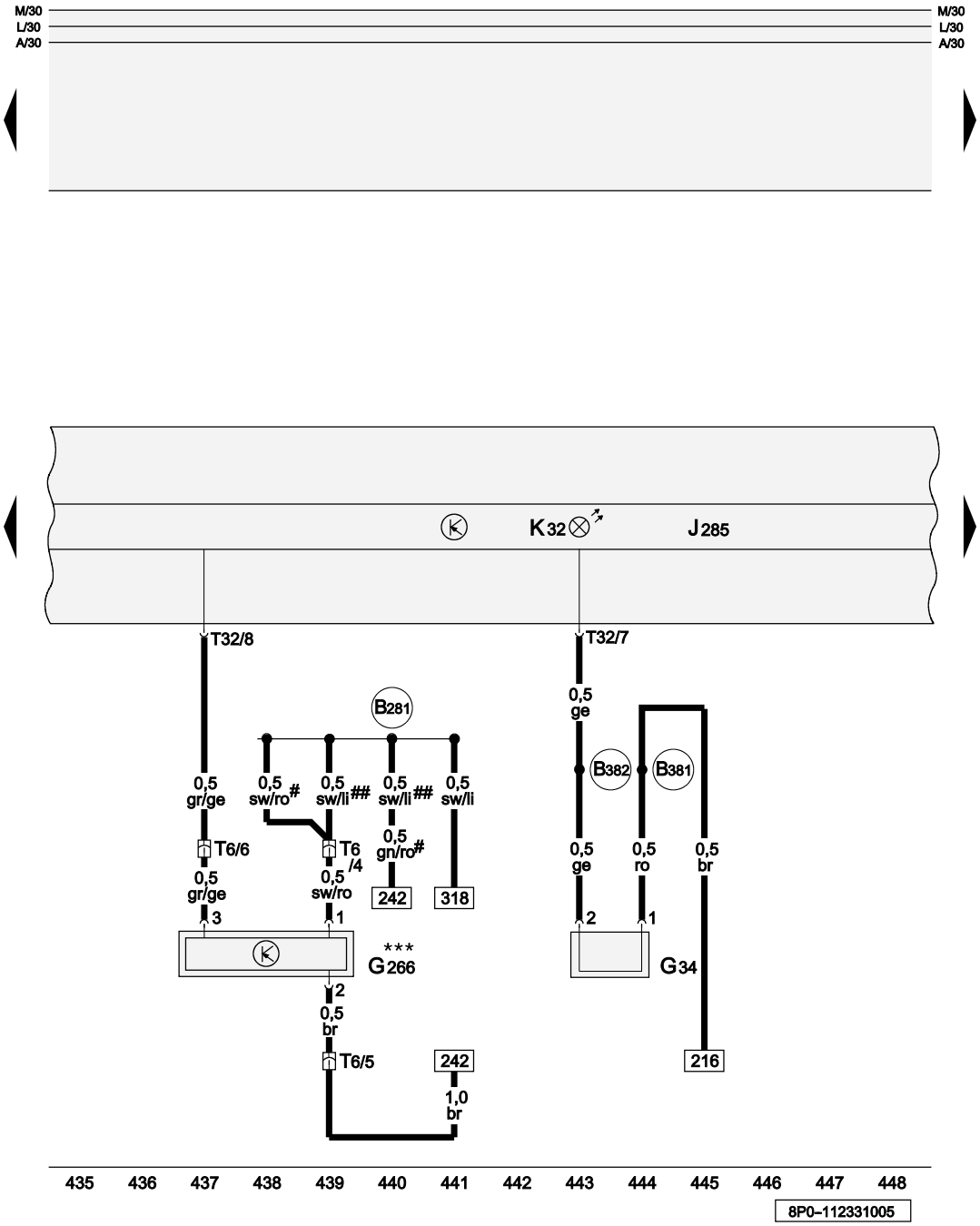
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Control unit in dash panel insert, ambient temperature sensor, windscreen washer fluid level sender, oil pressure switch, buzzer and gong

F1	Oil pressure switch
G17	Ambient temperature sensor
G33	Windscreen washer fluid level sender
G106	Ambient temperature indicator
H3	Buzzer and gong
J285	Control unit in dash panel insert
K1	Main beam warning lamp
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K102	Rear lid closed warning lamp
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
(283)	Earth connection 2, in engine harness
(401)	Earth connection (sender earth), in interior wiring harness
(673)	Earth point 3, on front of left longitudinal member
*	for models with windscreen washer fluid level sender/water level only
**	for models with FSI - fuel injection engine only
***	not for models with FSI - fuel injection engine



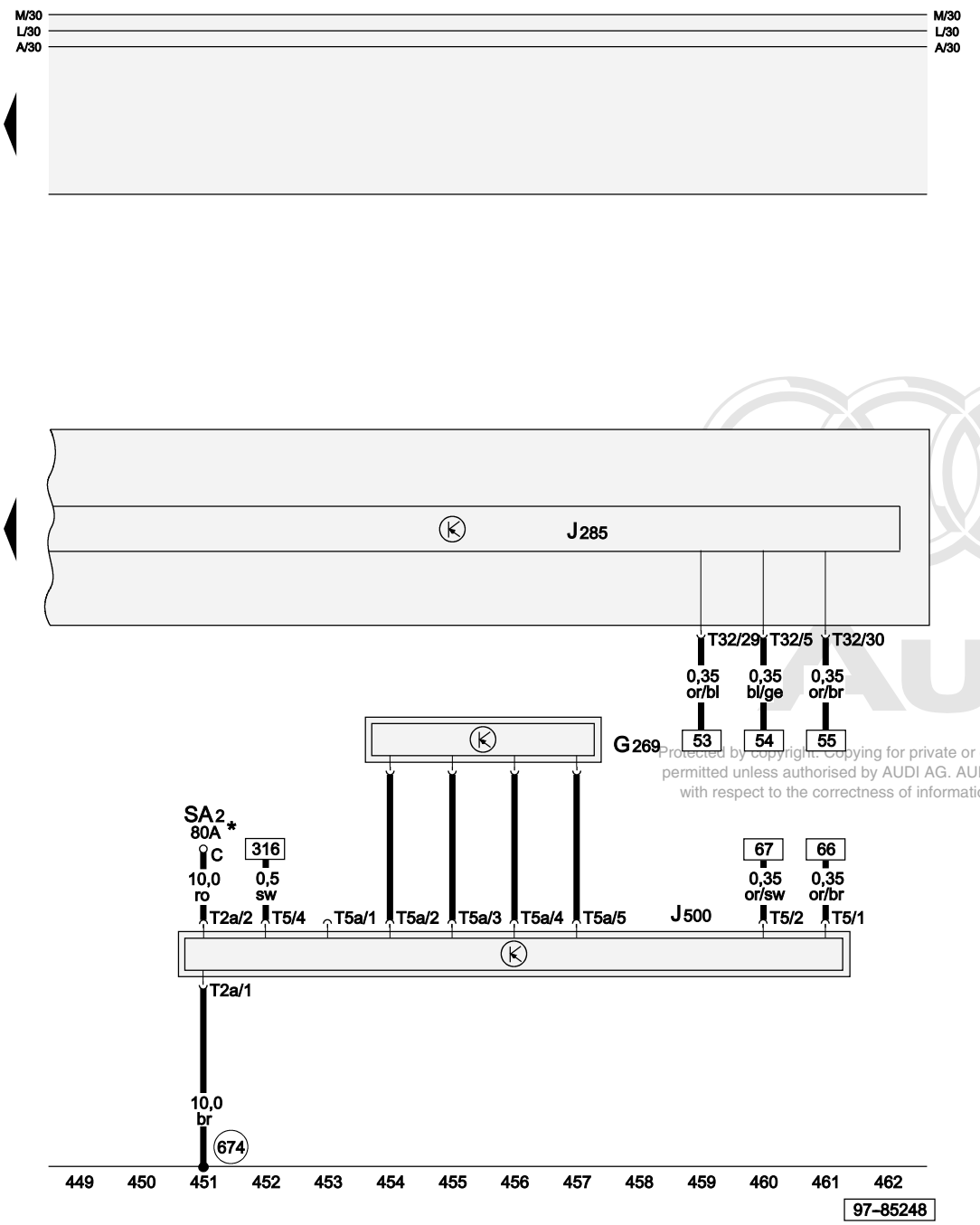
Control unit in dash panel insert, front left brake pad wear sender, oil level and oil temperature sender

G34	Front left brake pad wear sender
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K32	Brake pad warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
B281	Positive connection 5 (15a), in main wiring harness
B381	Connection 3 (brake wear indicator), in main wiring harness
B382	Connection 4 (brake wear indicator), in main wiring harness

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#	No longer fitted, phased-in modification
##	phased-in modification
***	for models with extended servicing intervals (ESI) only

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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink



Control unit in dash panel insert, steering moment sender, power steering control unit

G269	Steering moment sender
J285	Control unit in dash panel insert
J500	Power steering control unit
SA2	Fuse 2 on fuse holder A
T2a	2-pin connector, black (connector A)
T5	5-pin connector, white (connector C)
T5a	5-pin connector, black (connector B)
T32	32-pin connector, blue (connector A)
674	Earth point 4, on front of left longitudinal member
*	⇒ applicable Current Flow Diagram with battery in luggage compartment or engine compartment

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Preparation for radio trade product

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

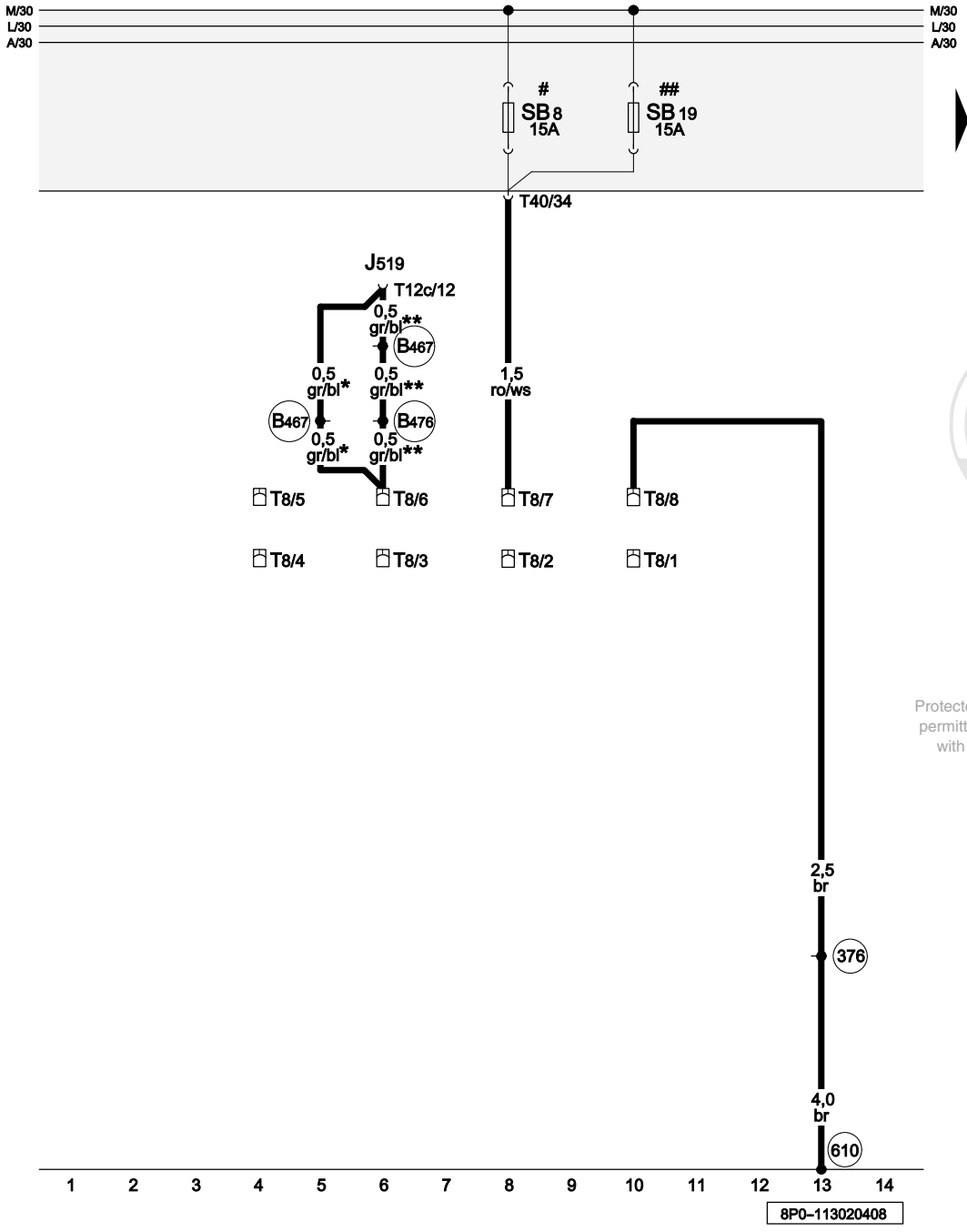
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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Voltage supply

J519	Onboard supply control unit
SB8	Fuse 8 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8	8-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
B467	Connection 3 in main wiring harness
B476	Connection 12 in main wiring harness
*	is dropped from May 2008
**	applicable from May 2008
#	for models with electronics box low only
##	for models with electronics box high only

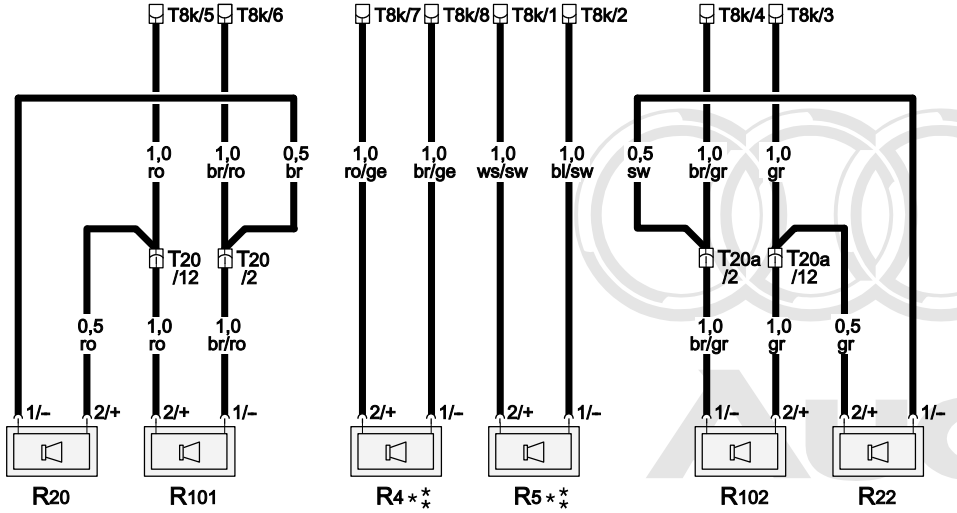
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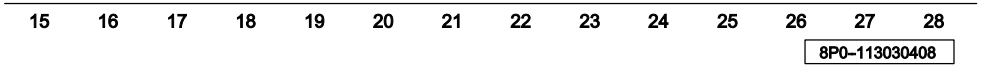


Front and rear loudspeaker

R4	Rear left loudspeaker
R5	Rear right loudspeaker
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
T8k	8-pin connector, brown (connector B)
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
	for models with rear loudspeaker only
**	for models with 3-door models only



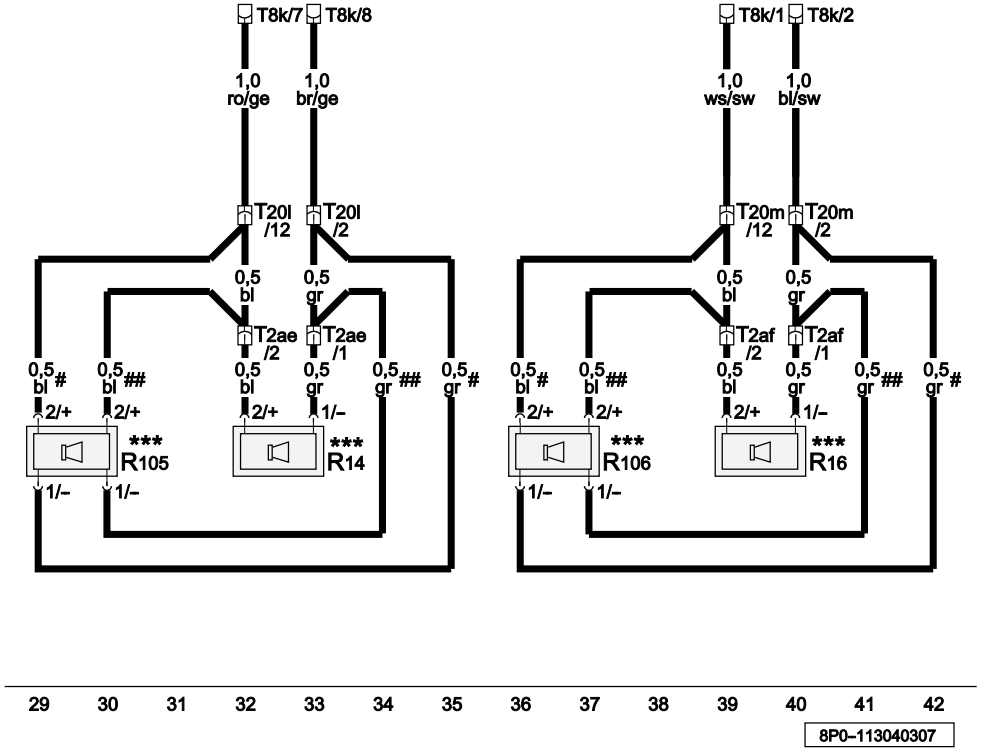
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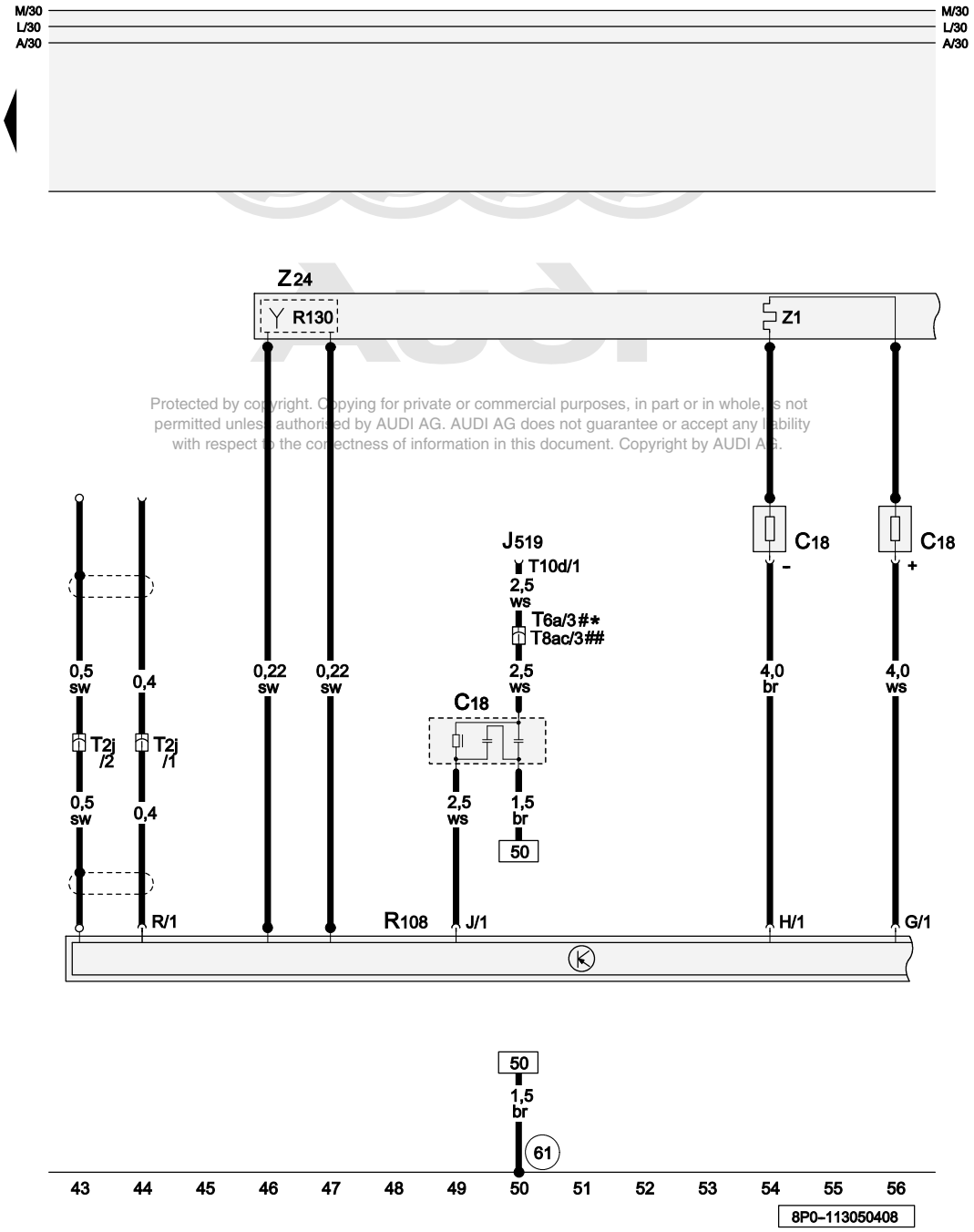
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Rear loudspeaker

R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T8k	8-pin connector, brown (connector B)
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
***	for models with 5-door models only
#	phased-in modification
##	No longer fitted, phased-in modification

ws	=	white
sw	=	black
ro	=	red
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gr	=	grey
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Left aerial module, rear window aerial 1

C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
R130	Rear window aerial 1
T2j	2-pin connector, near C-pillar right
T6a	6-pin connector, black, on left C-pillar
T8ac	8-pin connector, black
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
(61)	Earth point, left C-pillar
*	for models with 5-door models only, is dropped from May 2008
#	for models with 3-door models only
##	for models with 5-door models only, applicable from May 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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rs	=	pink

2.0 l - Fuel injection engine (110 kW - FSI - 4 cylinder), engine code BLR

from model year 2006

2.0 l - Fuel injection engine (110 kW - FSI - 4 cylinder), engine code BVY

from November 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

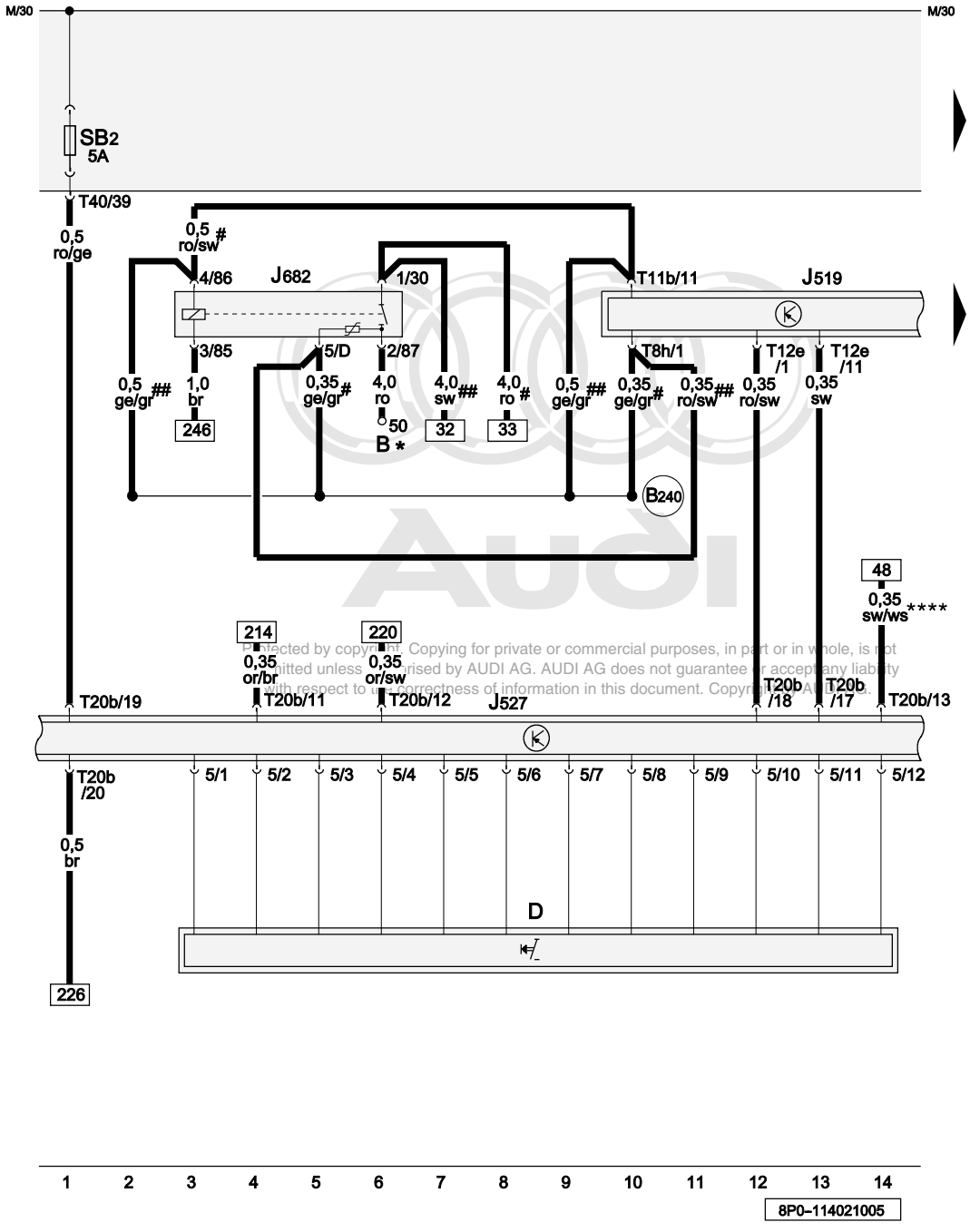
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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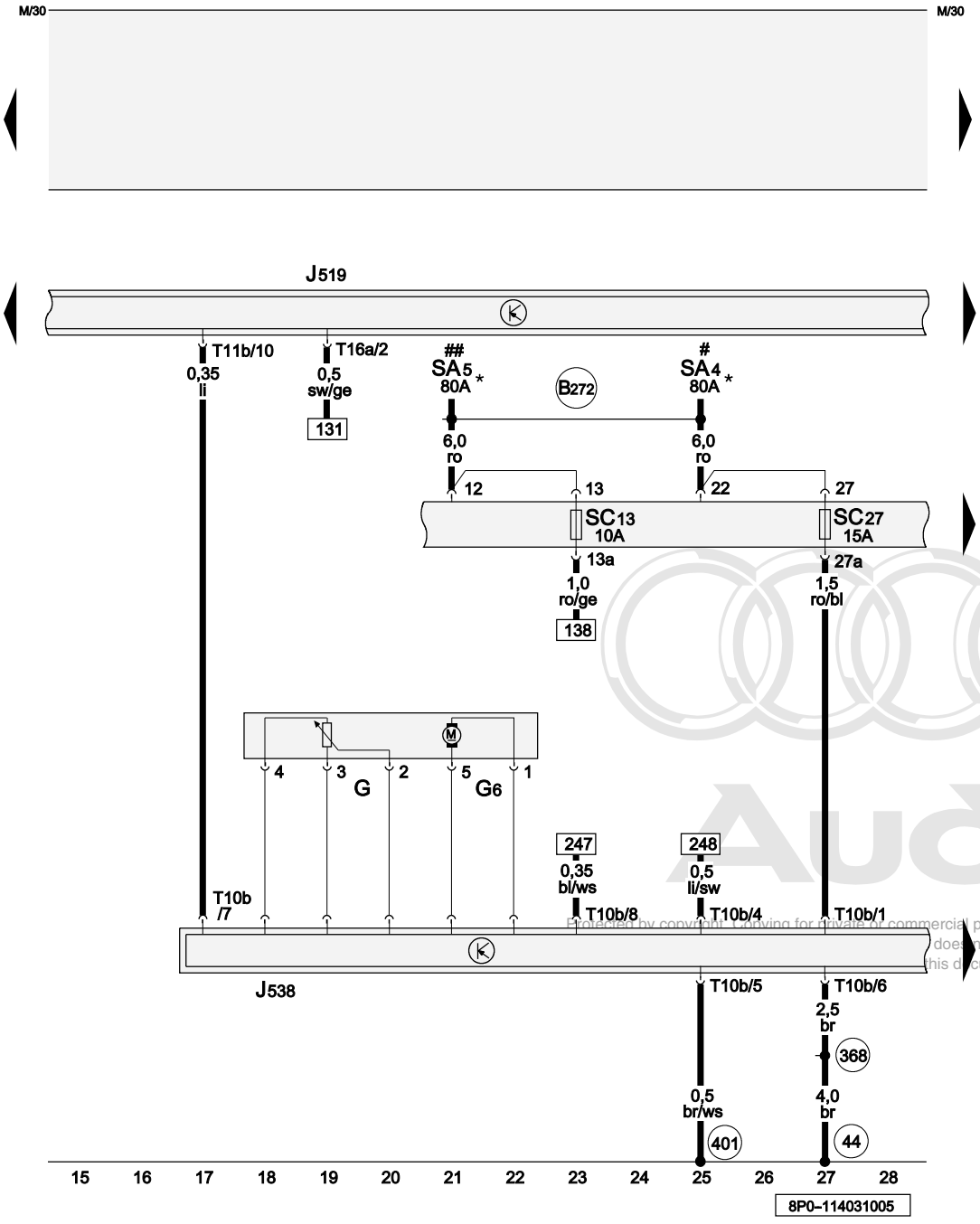


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Ignition/starter switch, onboard supply control unit, steering column electronics control unit, terminal 50 voltage supply relay

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB2	Fuse 2 on fuse holder B
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B240	Positive connection 2 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
****	for models with cruise control system only
#	is dropped from November 2005
##	applicable from November 2005

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sw	=	black
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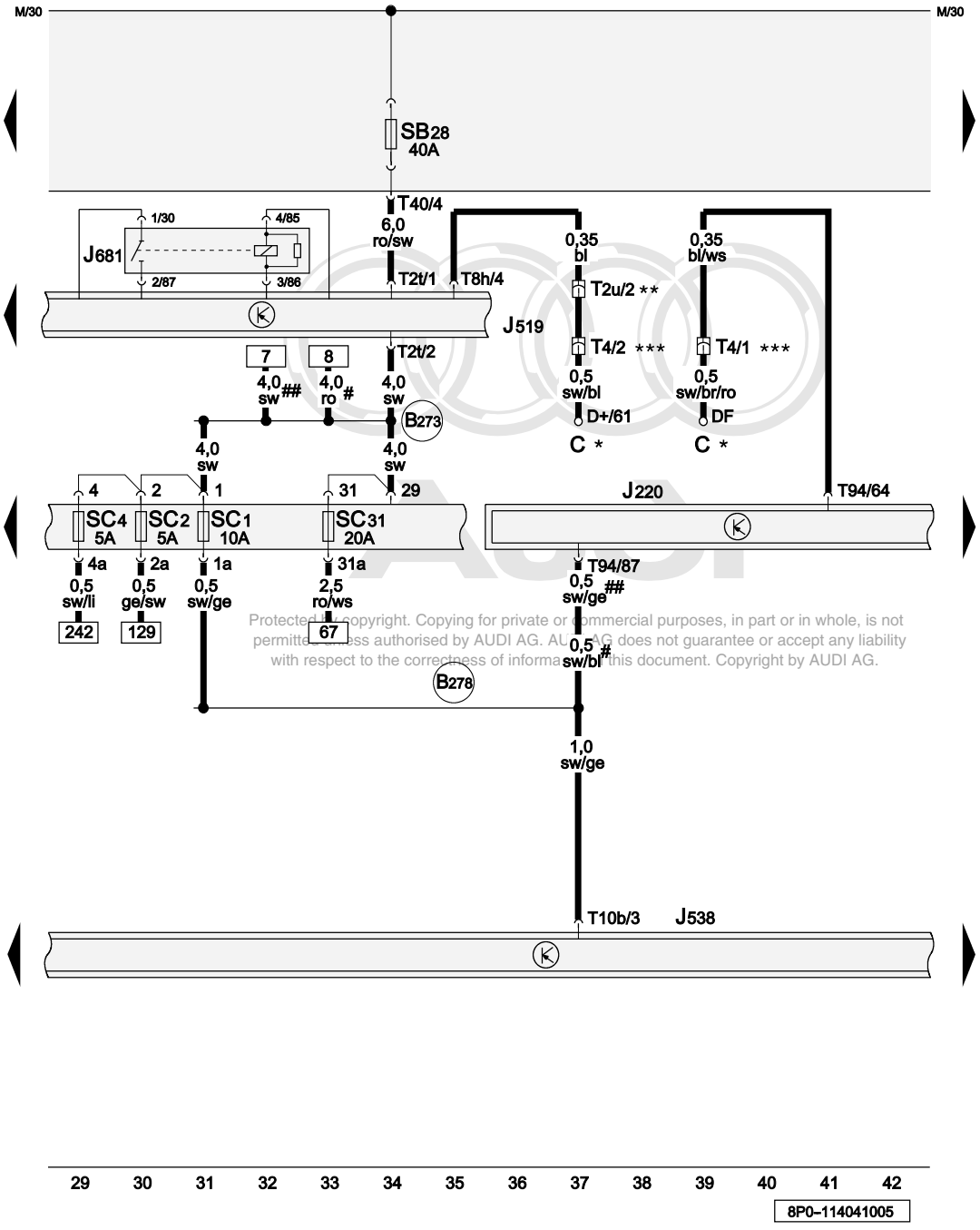


Fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J538	Fuel pump control unit
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC13	Fuse 13 on fuse holder C
SC27	Fuse 27 on fuse holder C
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
#	is dropped from November 2005
##	applicable from November 2005

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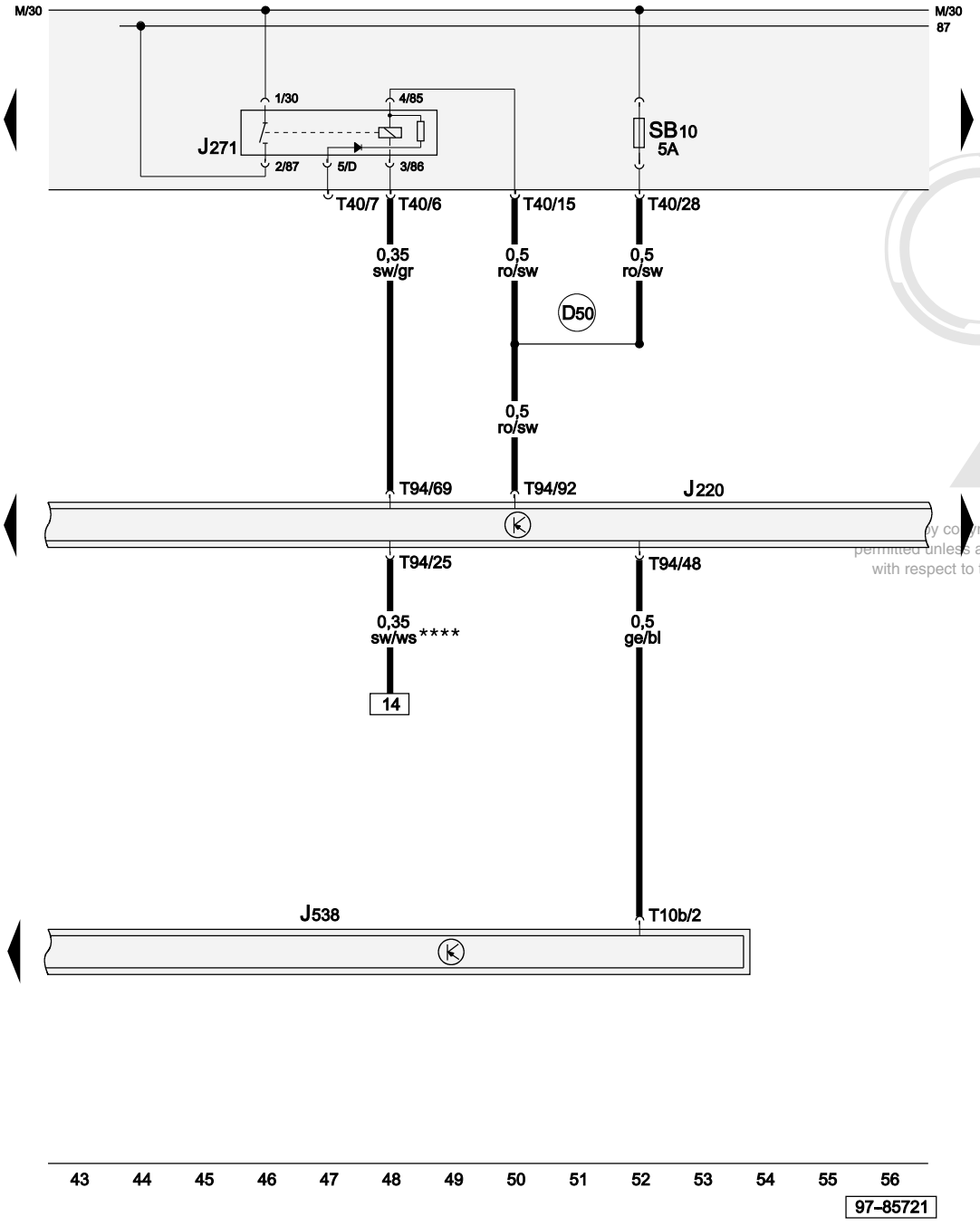


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Fuse holder

C	Alternator
J220	Motronic control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC31	Fuse 31 on fuse holder C
T2t	2-pin connector, black (connector L)
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
#	is dropped from November 2005
##	applicable from November 2005

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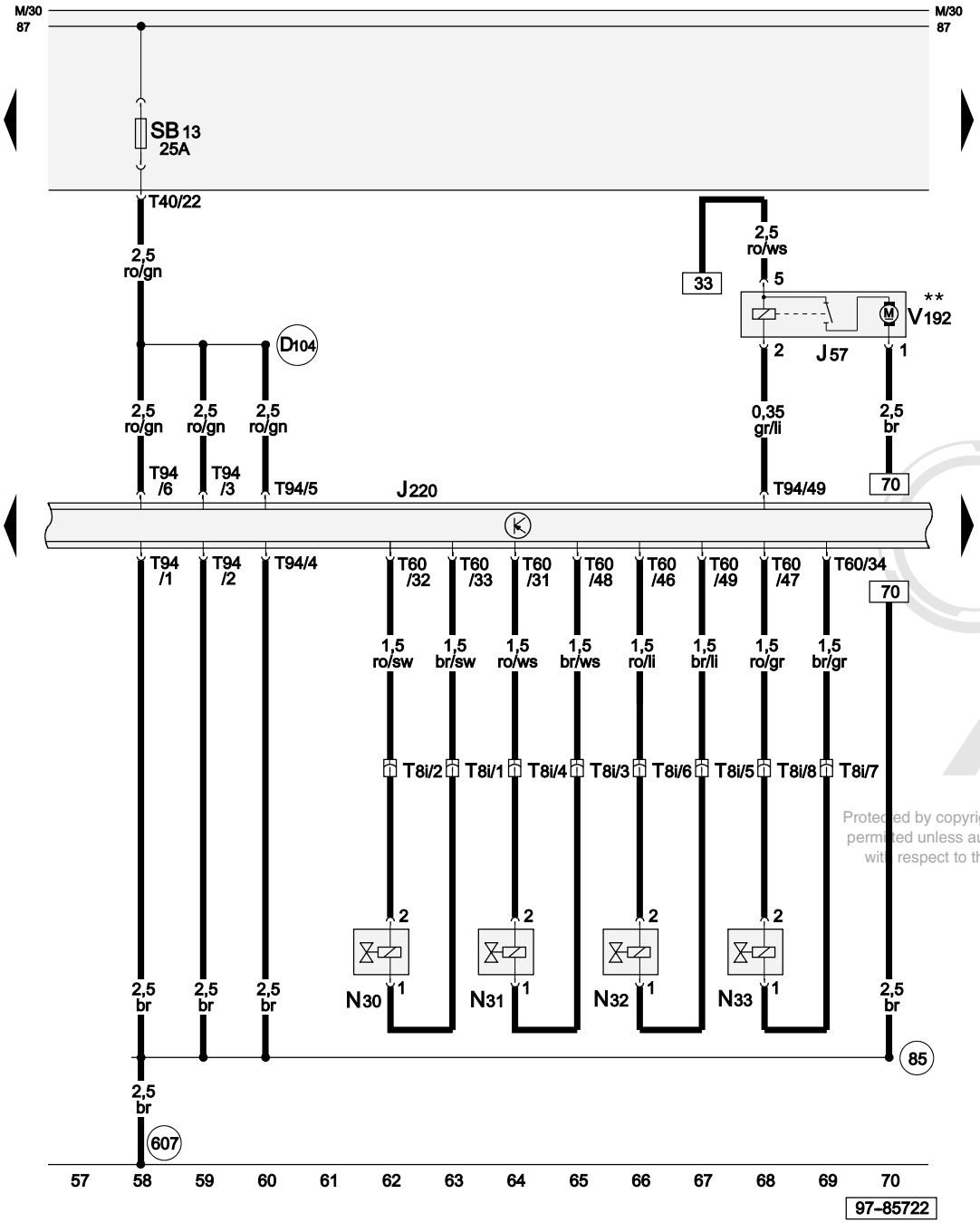
Motronic current supply relay

J220	Motronic control unit
J271	Motronic current supply relay
J538	Fuel pump control unit
SB10	Fuse 10 on fuse holder B
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
D50	Positive connection (30), in engine compartment wiring harness
****	for models with cruise control system only

Audi

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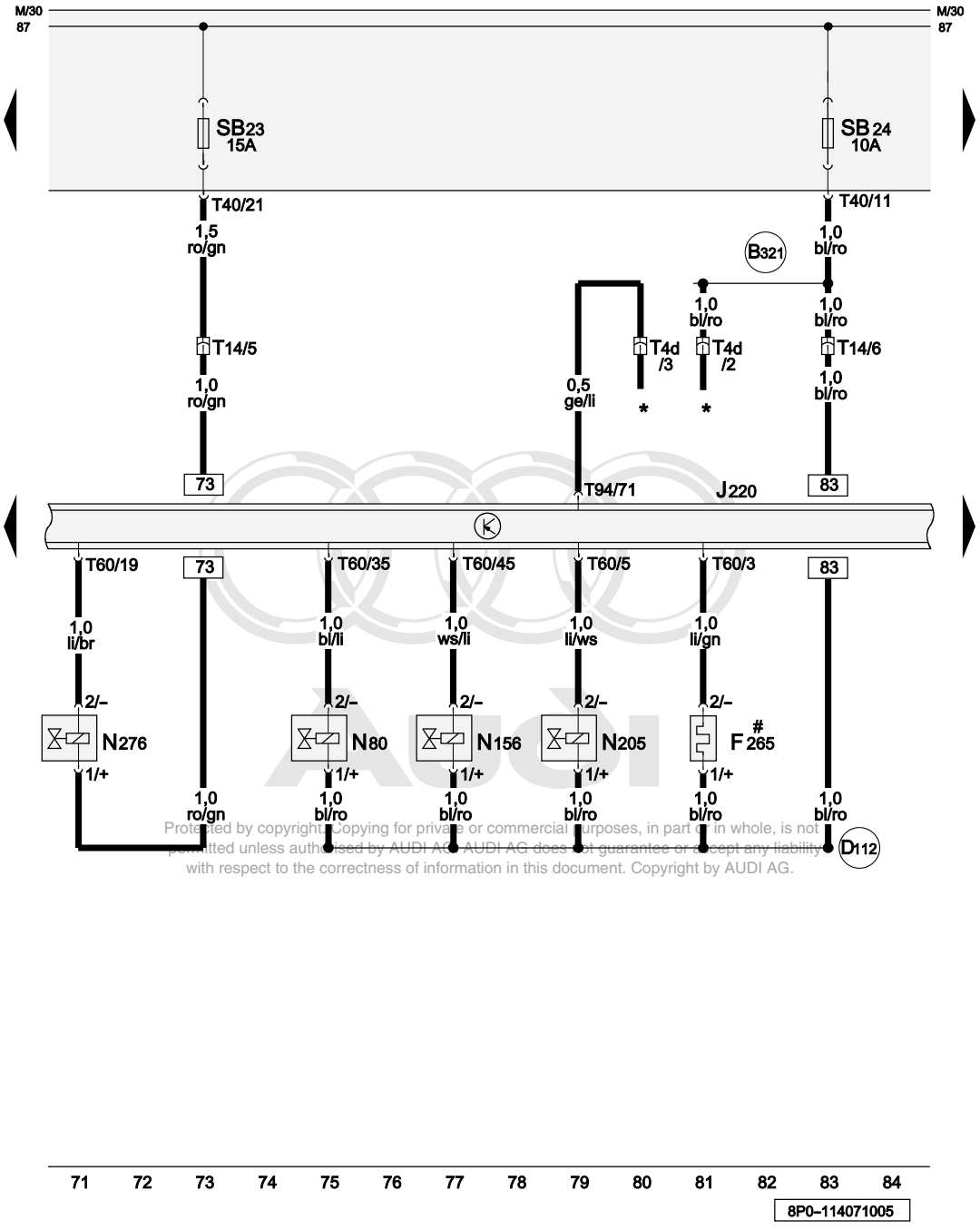


Injectors, vacuum pump for brakes

J57	Vacuum pump relay
J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SB13	Fuse 13 on fuse holder B
T8i	8-connector, black, near injectors
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V192	Vacuum pump for brakes
(85)	Earth connection 1, in engine compartment wiring harness
(607)	Earth point, on left in plenum chamber
(D104)	Positive connection 2 (30a), in engine compartment wiring harness
**	for models with automatic gearbox only

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rs	=	pink

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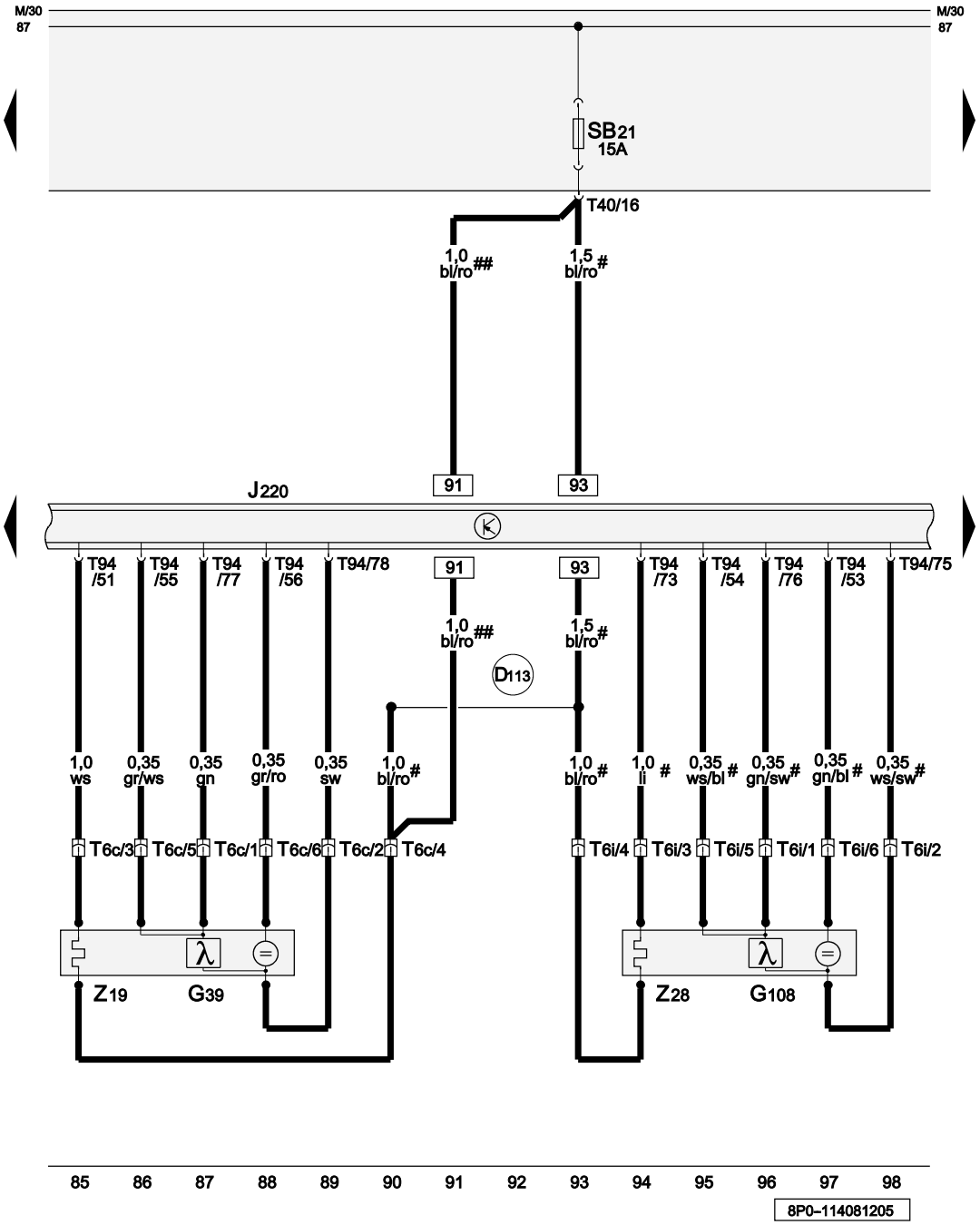


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Solenoid valve, map-controlled engine cooling system thermostat

F265	Map-controlled engine cooling system thermostat
J220	Motronic control unit
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
N276	Fuel pressure regulating valve
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B321	Positive connection 7 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan control
#	is dropped from November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

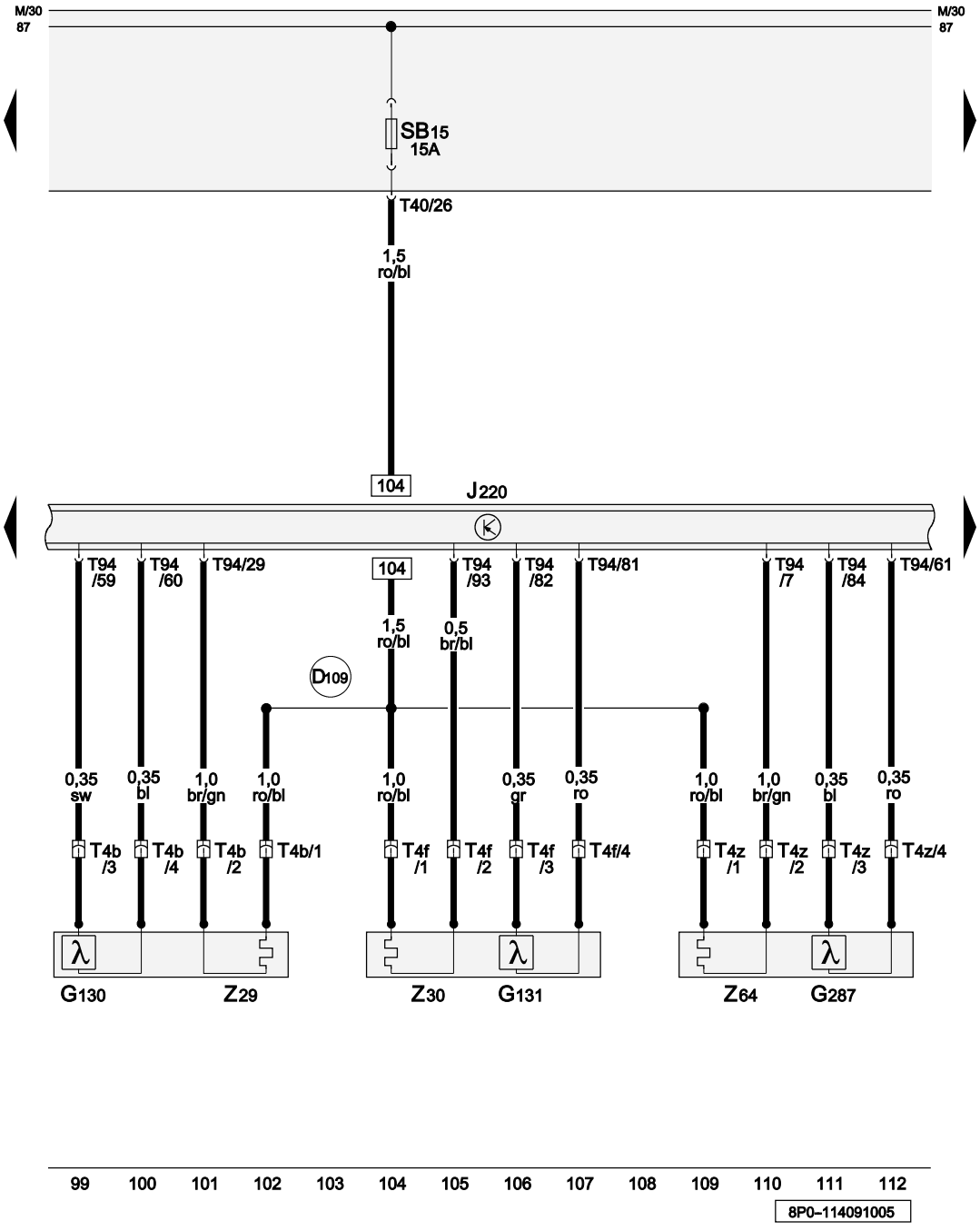


Lambda probe, lambda probe 2

G39	Lambda probe
G108	Lambda probe 2
J220	Motronic control unit
SB21	Fuse 21 on fuse holder B
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T6i	6-pin connector, brown, on lambda probe 2 upstream of catalytic converter
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
Z28	Lambda probe 2 heater
(D113)	Connection 11, in engine compartment wiring harness
#	is dropped from November 2005
##	applicable from November 2005

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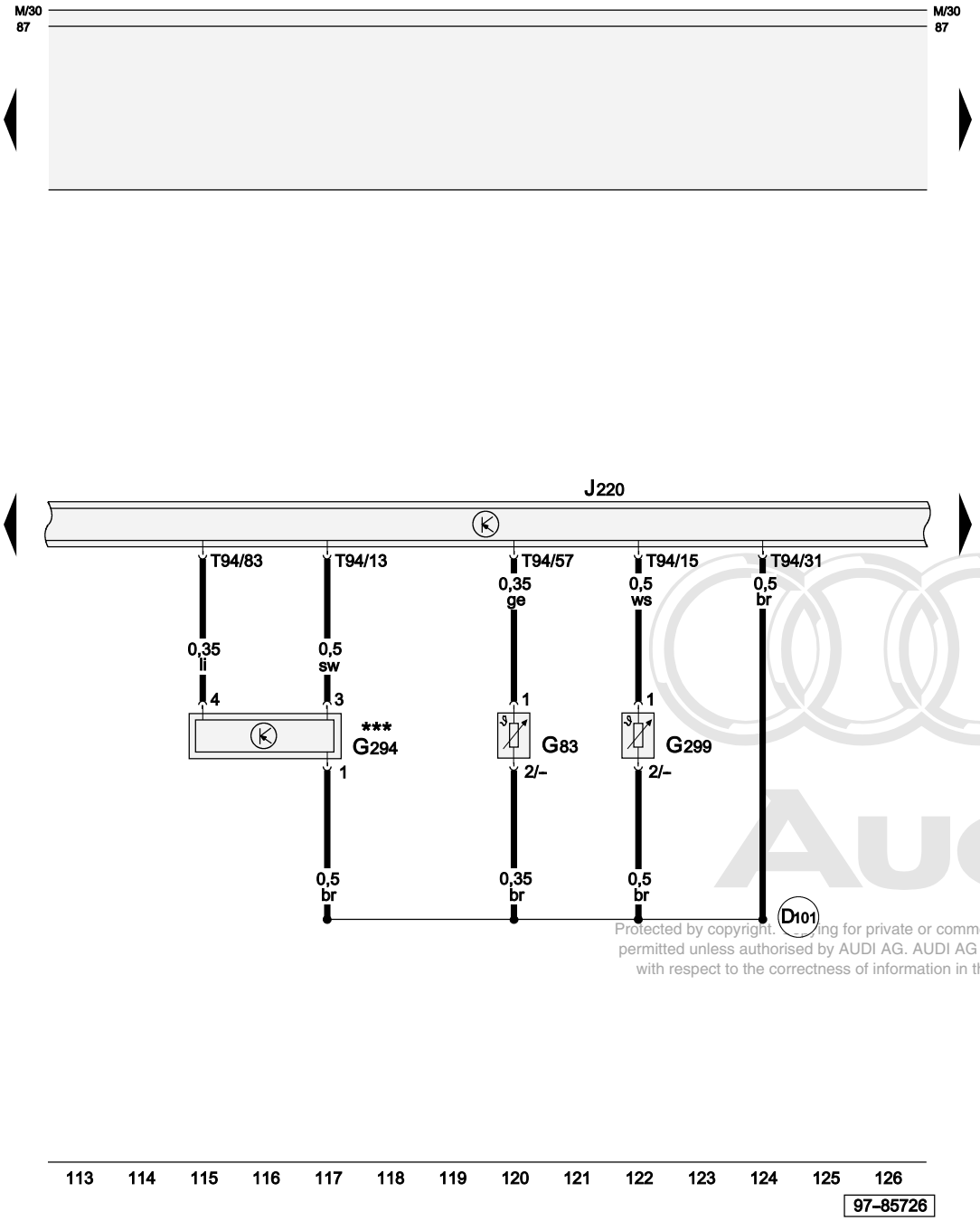


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Lambda probe after catalytic converter, lambda probe 2 after catalytic converter

G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
G287	Lambda probe 3 after catalytic converter
J220	Motronic control unit
SB15	Fuse 15 on fuse holder B
T4b	4-pin connector, black, on lambda probe after catalytic converter
T4f	4-pin connector, brown, on lambda probe 2 after catalytic converter
T4z	4-pin connector, grey, on the lambda probe 3
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
Z64	Lambda probe 3 heater after catalytic converter
D109	Connection 7, in engine compartment wiring harness

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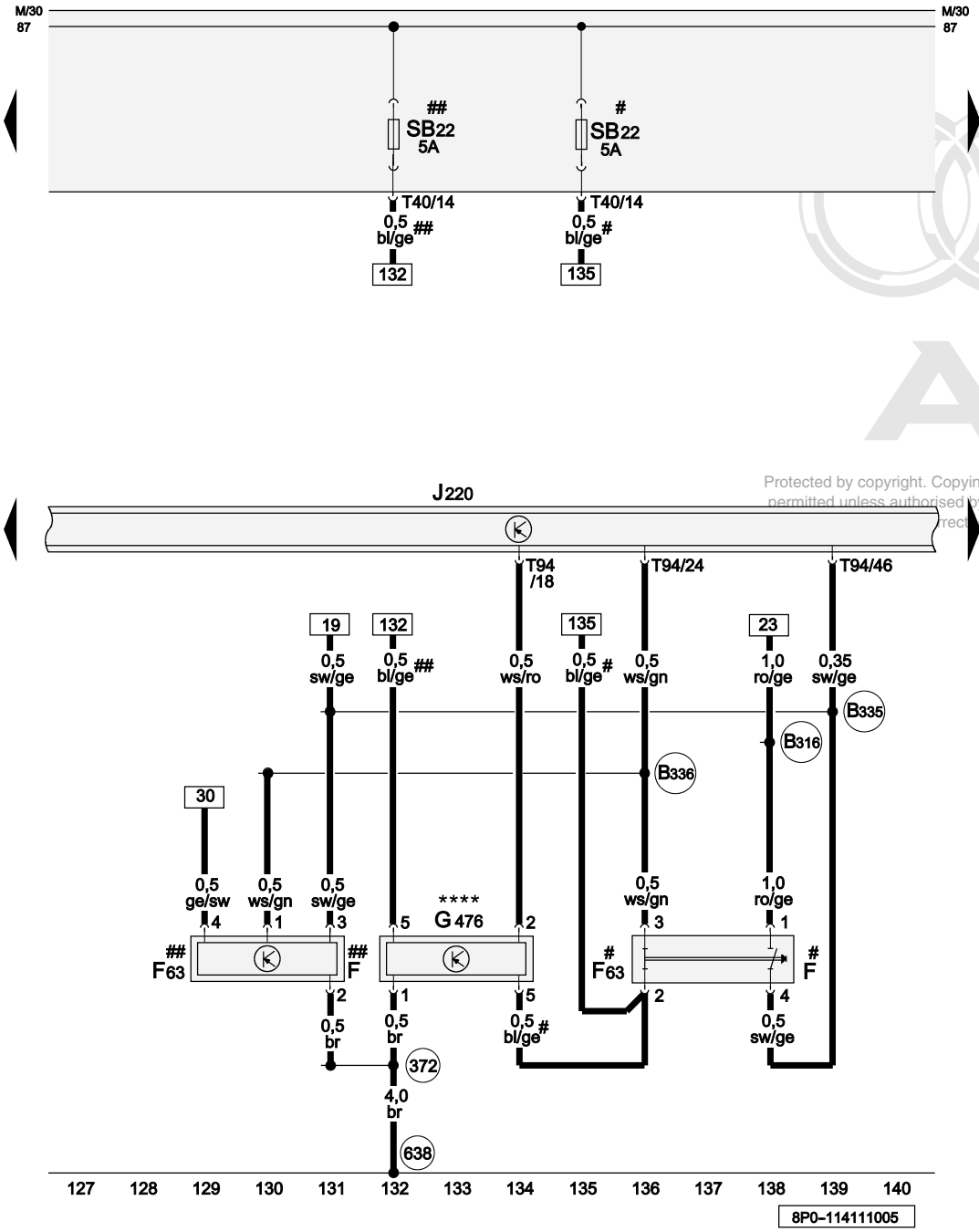


Radiator outlet coolant temperature sender, brake servo pressure sensor, intake air temperature sender 2

G83	Radiator outlet coolant temperature sender
G294	Brake servo pressure sensor
G299	Intake air temperature sender 2
J220	Motronic control unit
T94	94-pin connector, black (connector B)
D101	Connection 1, in engine compartment wiring harness
***	for models with brake servo pressure sensor only

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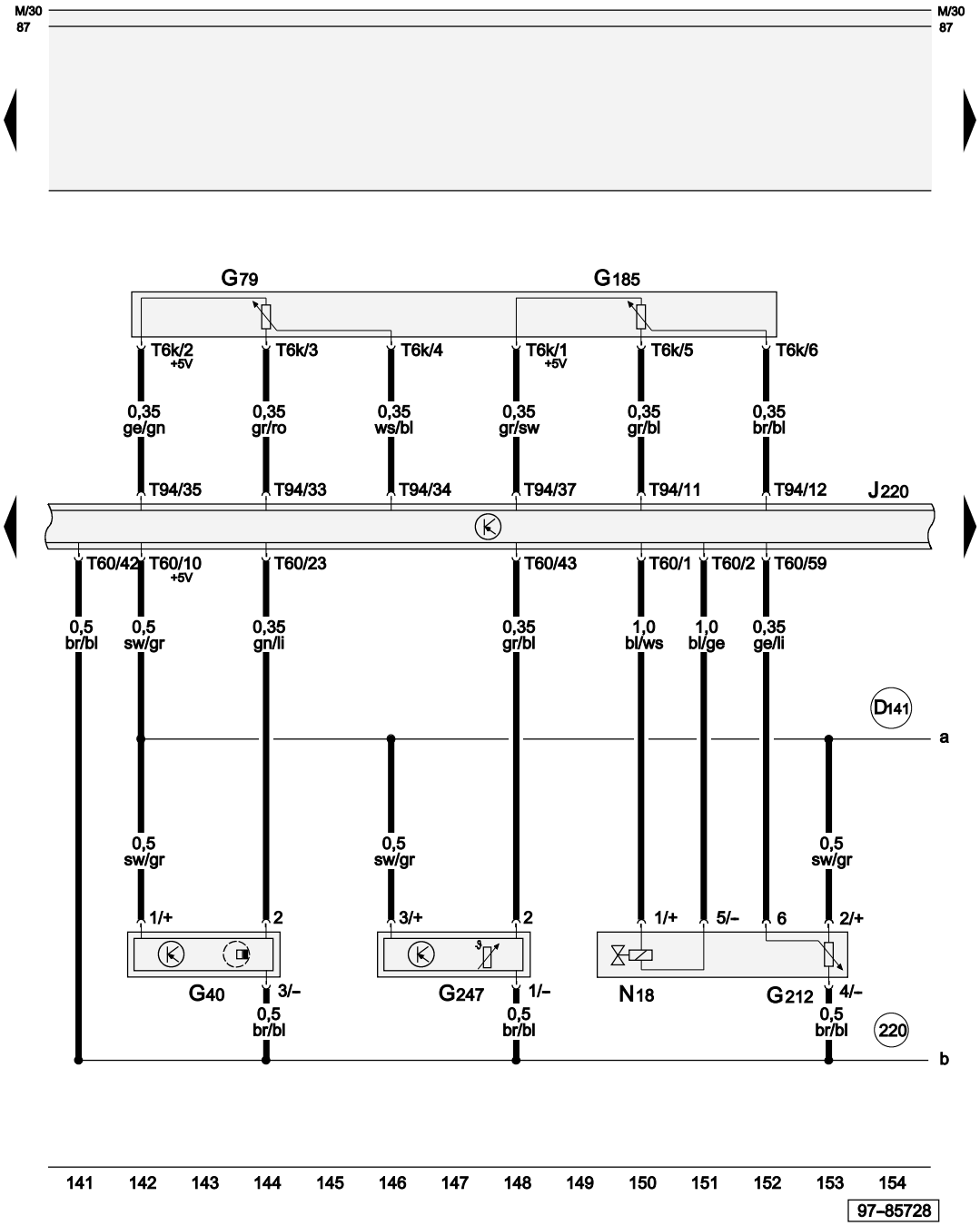


Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
SB22	Fuse 22 on fuse holder B
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
B336	Connection 2 (54), in main wiring harness
****	for models with manual gearbox only
#	is dropped from November 2005
##	applicable from November 2005

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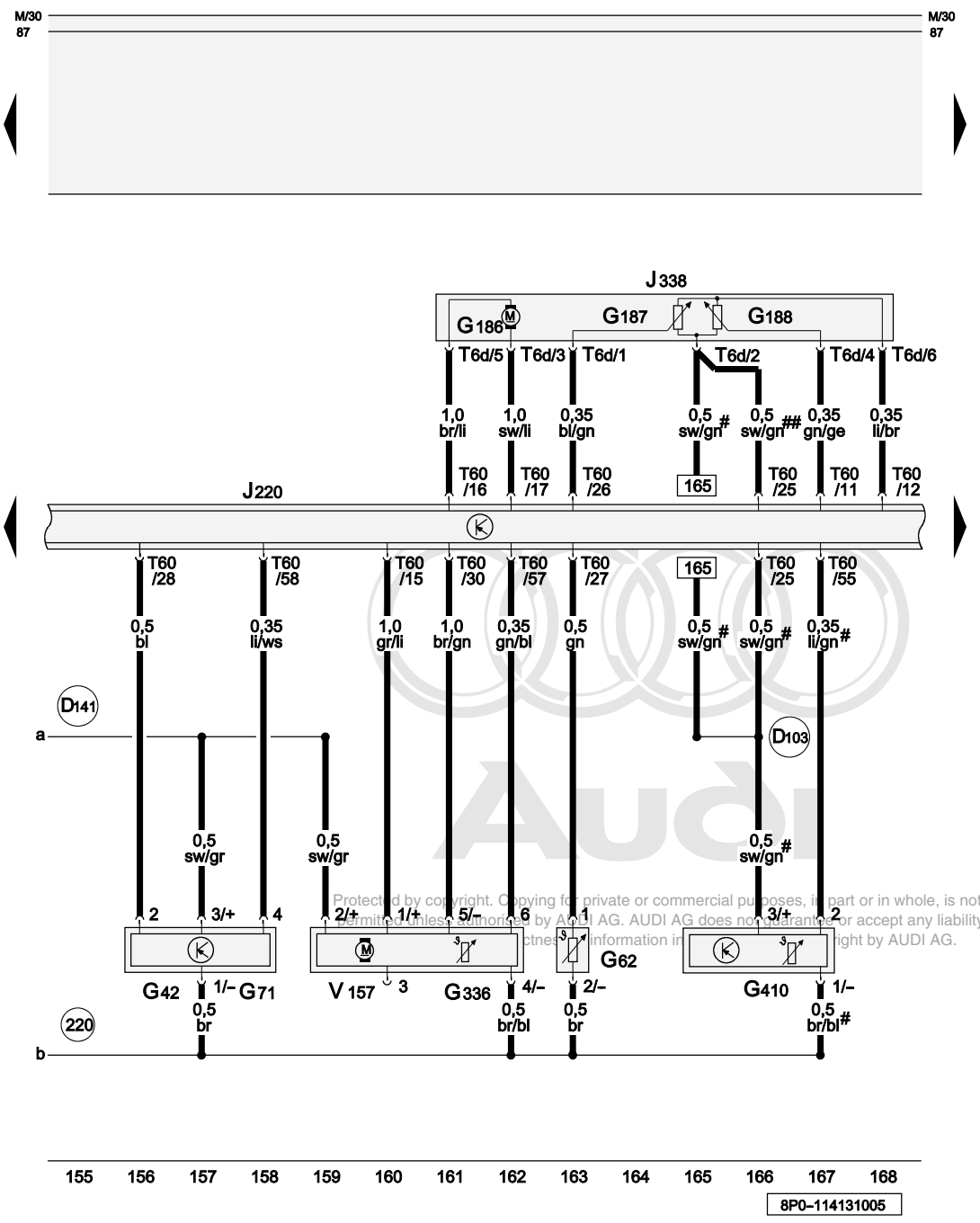


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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Hall sender, accelerator position sender, fuel pressure sender

G40	Hall sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
J220	Motronic control unit
N18	Exhaust gas recirculation valve
T6k	6-pin connector, black, near accelerator position sender
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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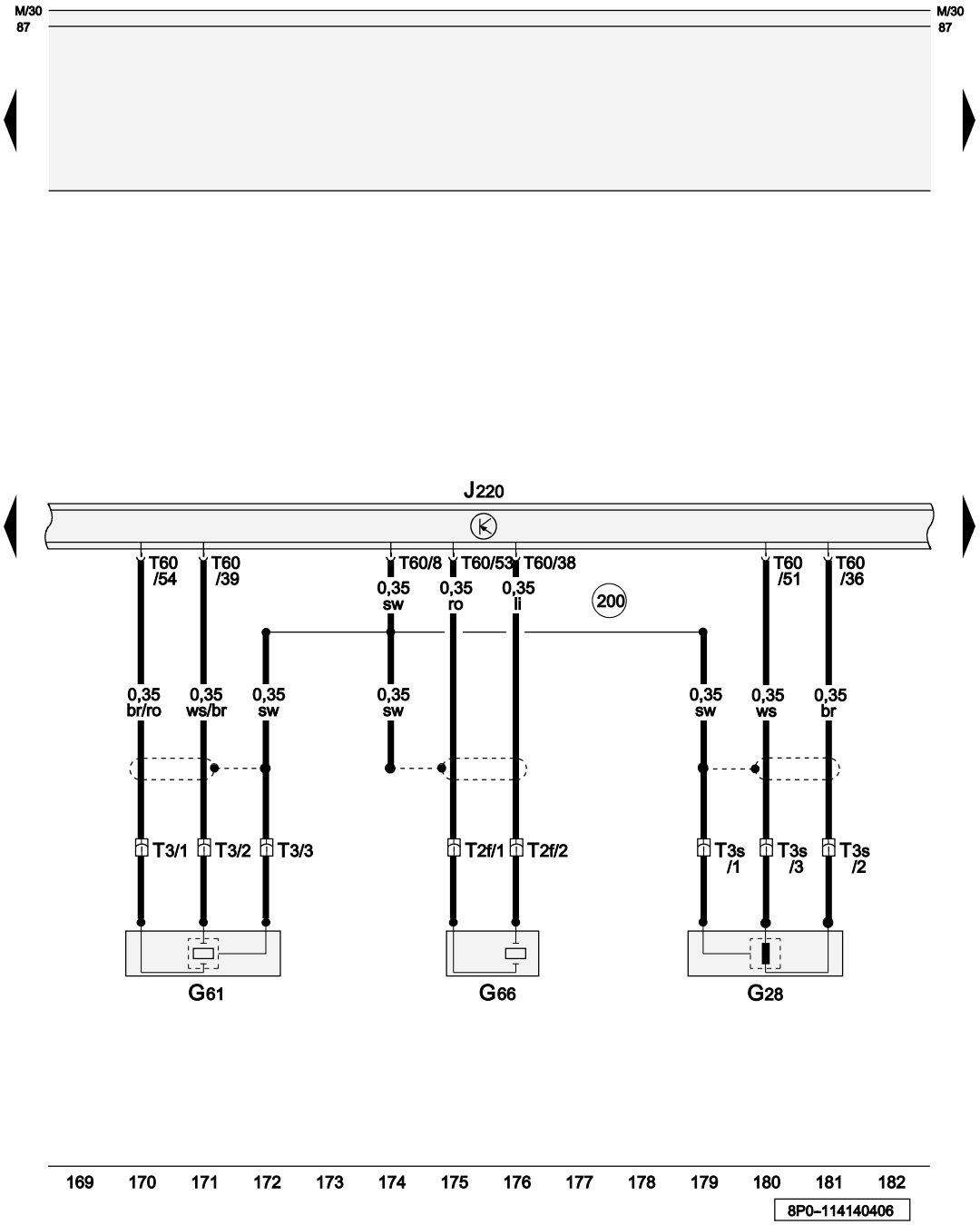


Intake air temperature sender, coolant temperature sender, intake manifold pressure sender

G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G336	Intake manifold flap potentiometer
G410	Fuel pressure sender for low pressure
J220	Motronic control unit
J338	Throttle valve module
T6d	6-pin connector, black, near throttle valve module
T60	60-pin connector, black (connector A)
V157	Intake manifold flap motor
220	Earth connection (sender earth), in engine wiring harness
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
#	is dropped from November 2005
##	applicable from November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
li	=	purple
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or	=	orange
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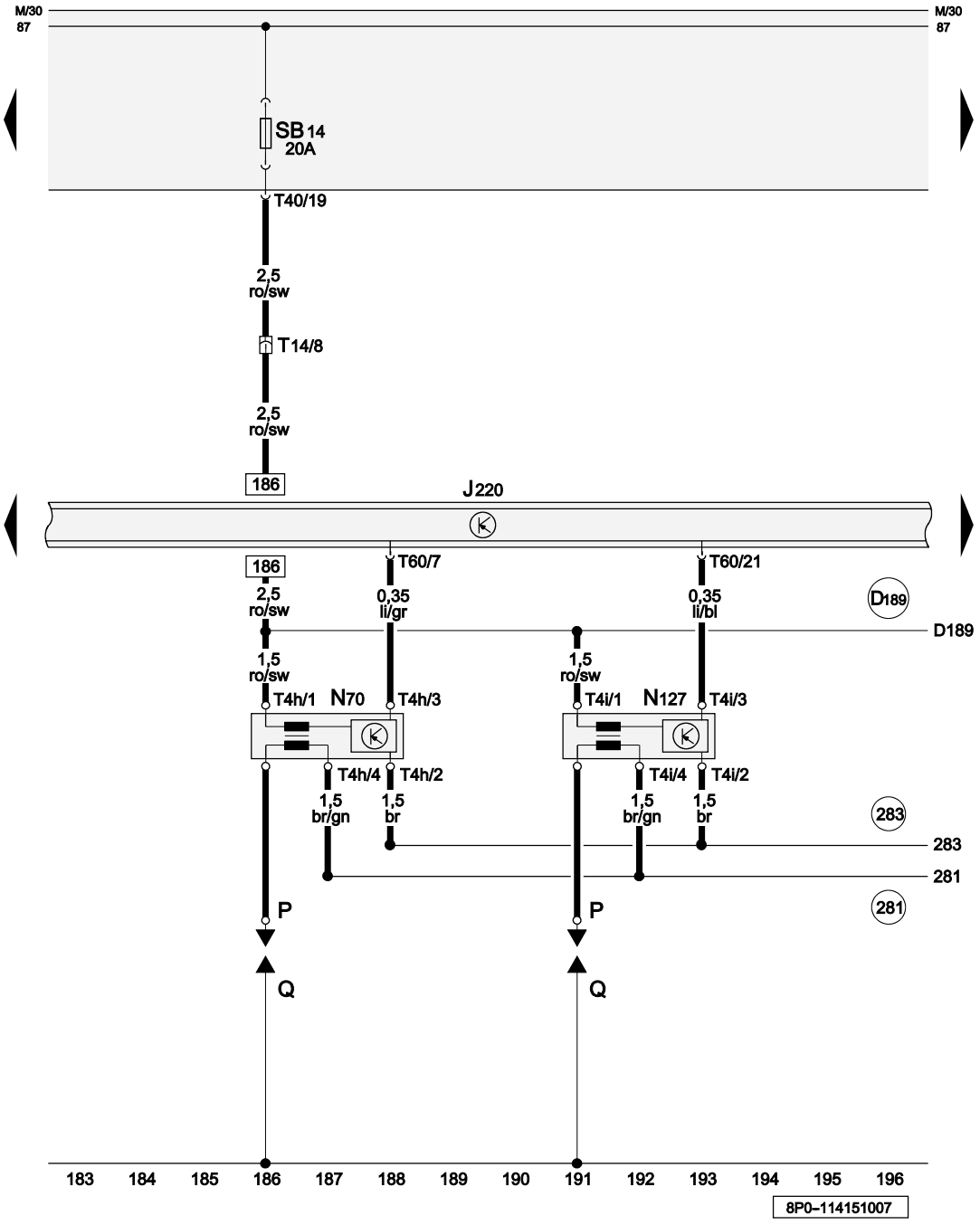


Engine speed sender, knock sensors

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J220	Motronic control unit
T2f	2-pin connector, black, in left engine compartment (knock sensor 2)
T3	3-pin connector, black, in left engine compartment (knock sensor)
T3s	3-pin connector
T60	60-pin connector, black (connector A)
200	Earth connection (screening) in engine compartment wiring harness

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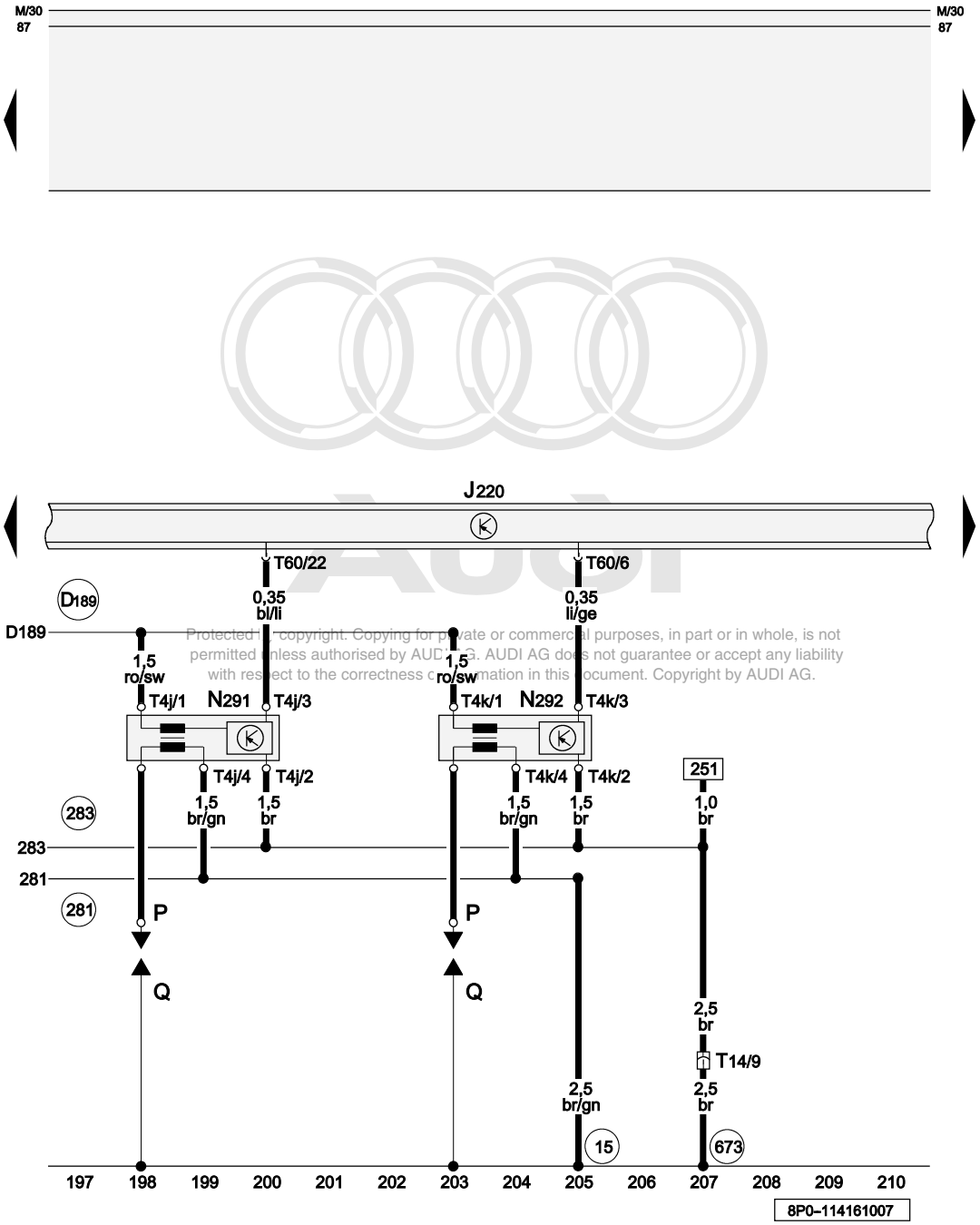


Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
P	Spark plug connector
Q	Spark plugs
SB14	Fuse 14 on fuse holder B
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
D189	Connection (87a), in engine wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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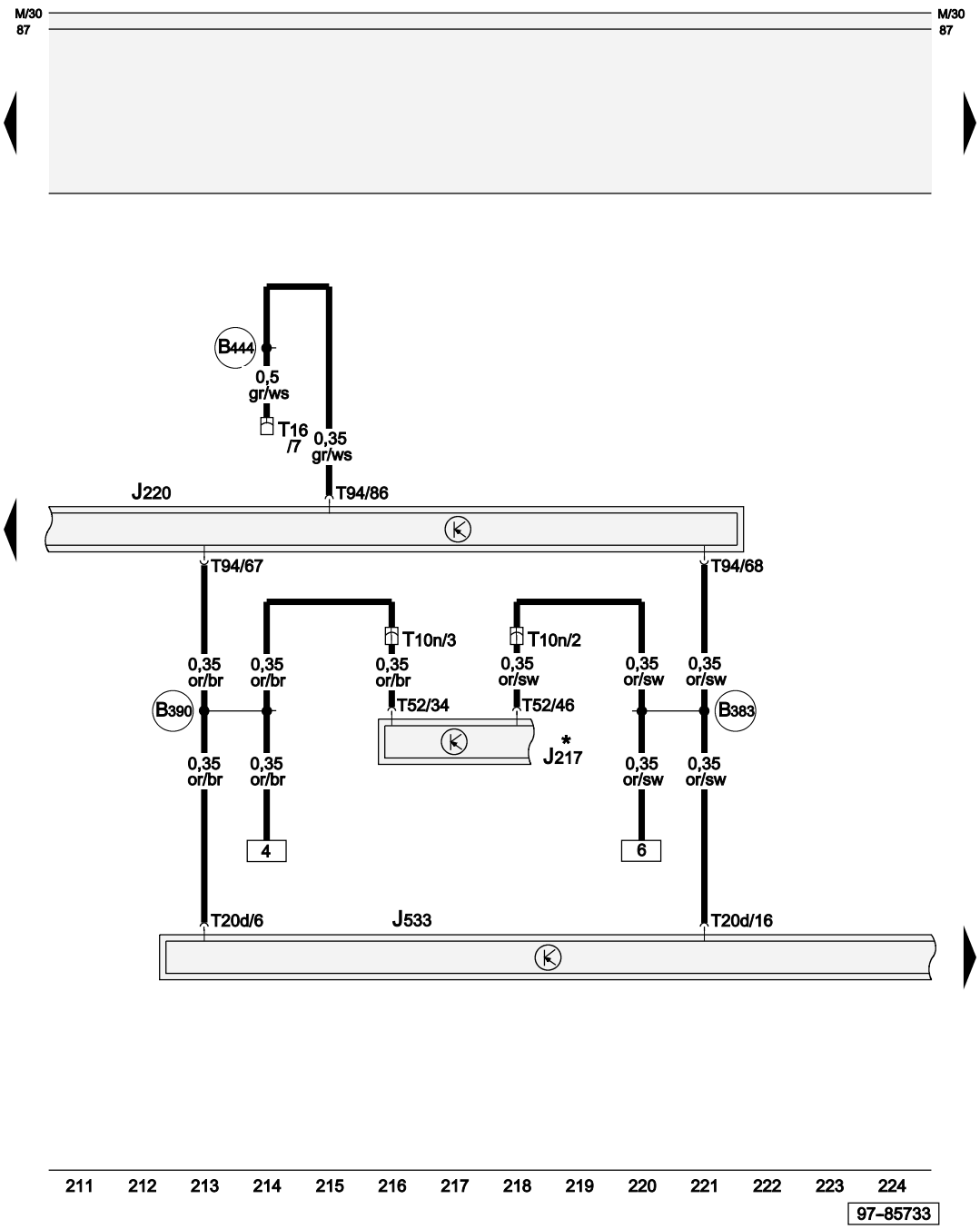


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Ignition coils 3 and 4 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4j	4-pin connector, black, on ignition coil 3 with output stage
T4k	4-pin connector, black, on ignition coil 4 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
15	Earth point, on cylinder head
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
673	Earth point 3, on front of left longitudinal member
D189	Connection (87a), in engine wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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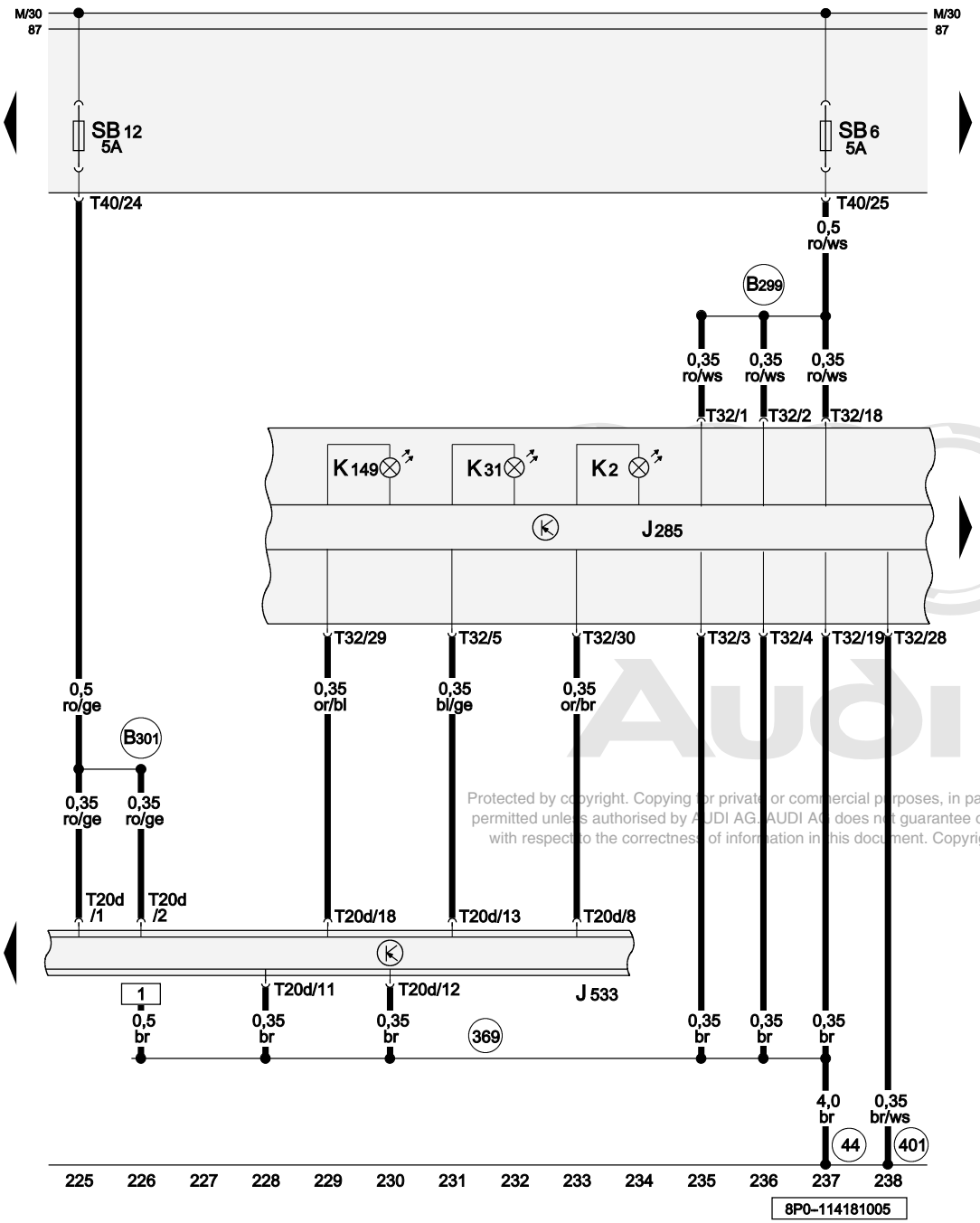
Drive train CAN bus, diagnosis

J217	Automatic gearbox control unit
J220	Motronic control unit
J533	Data bus diagnostic interface
T10n	10-pin connector, black, near longitudinal member, front left
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

* for models with automatic gearbox (09G) only

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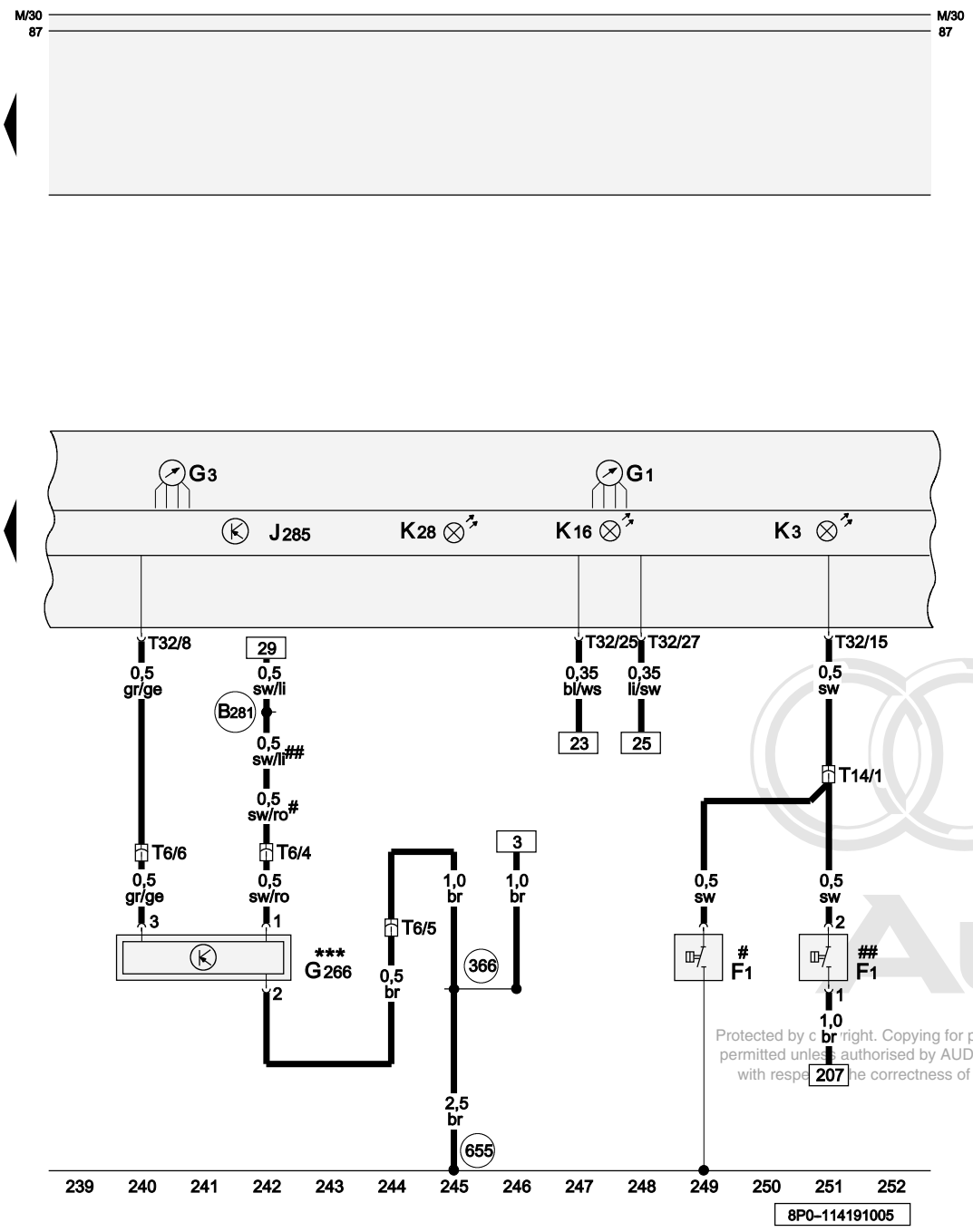


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Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB6	Fuse 6 on fuse holder B
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness



Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B281	Positive connection 5 (15a), in main wiring harness
***	for models with extended servicing intervals (ESI) only
#	No longer fitted, phased-in modification
##	phased-in modification

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Auxiliary heater

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

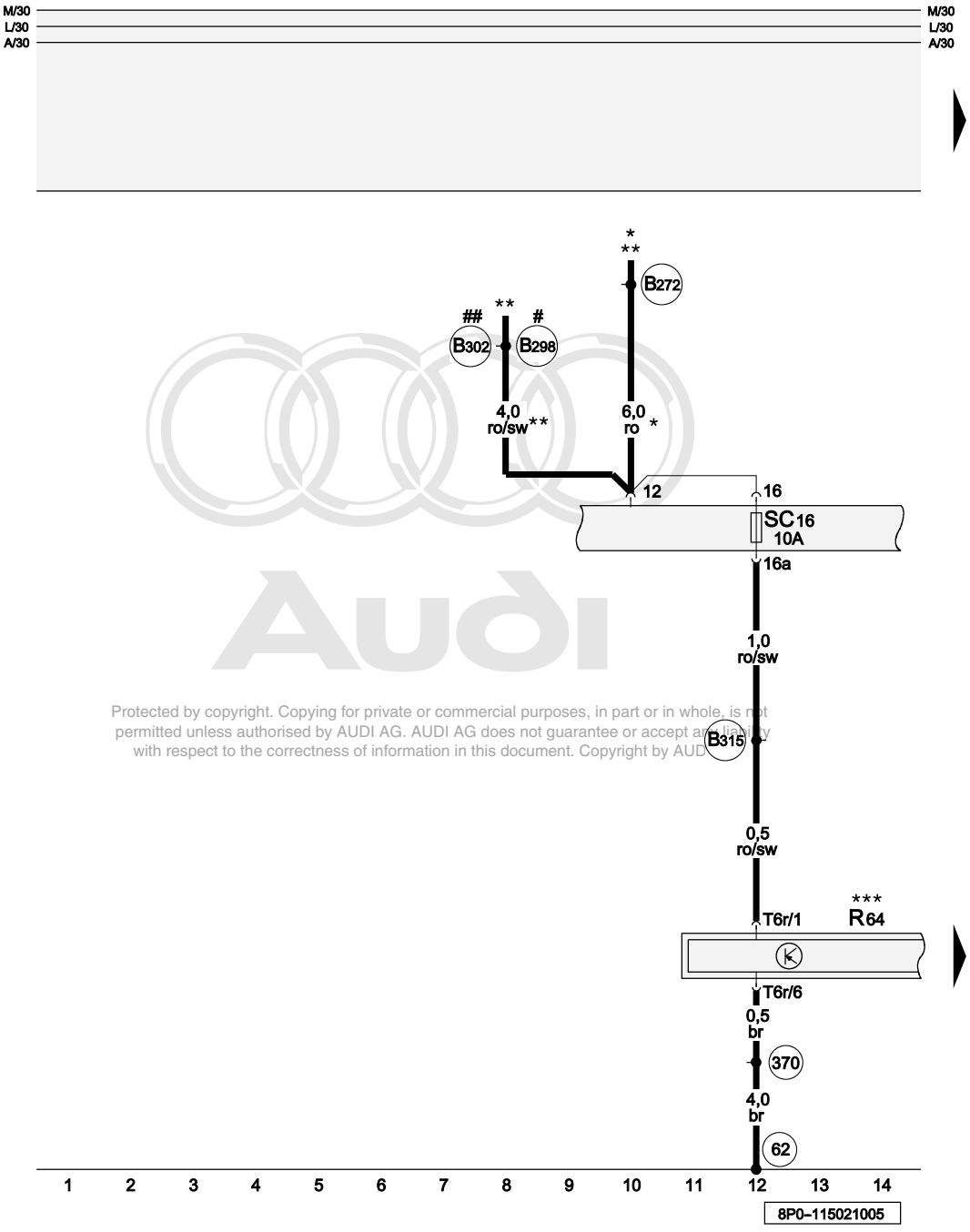
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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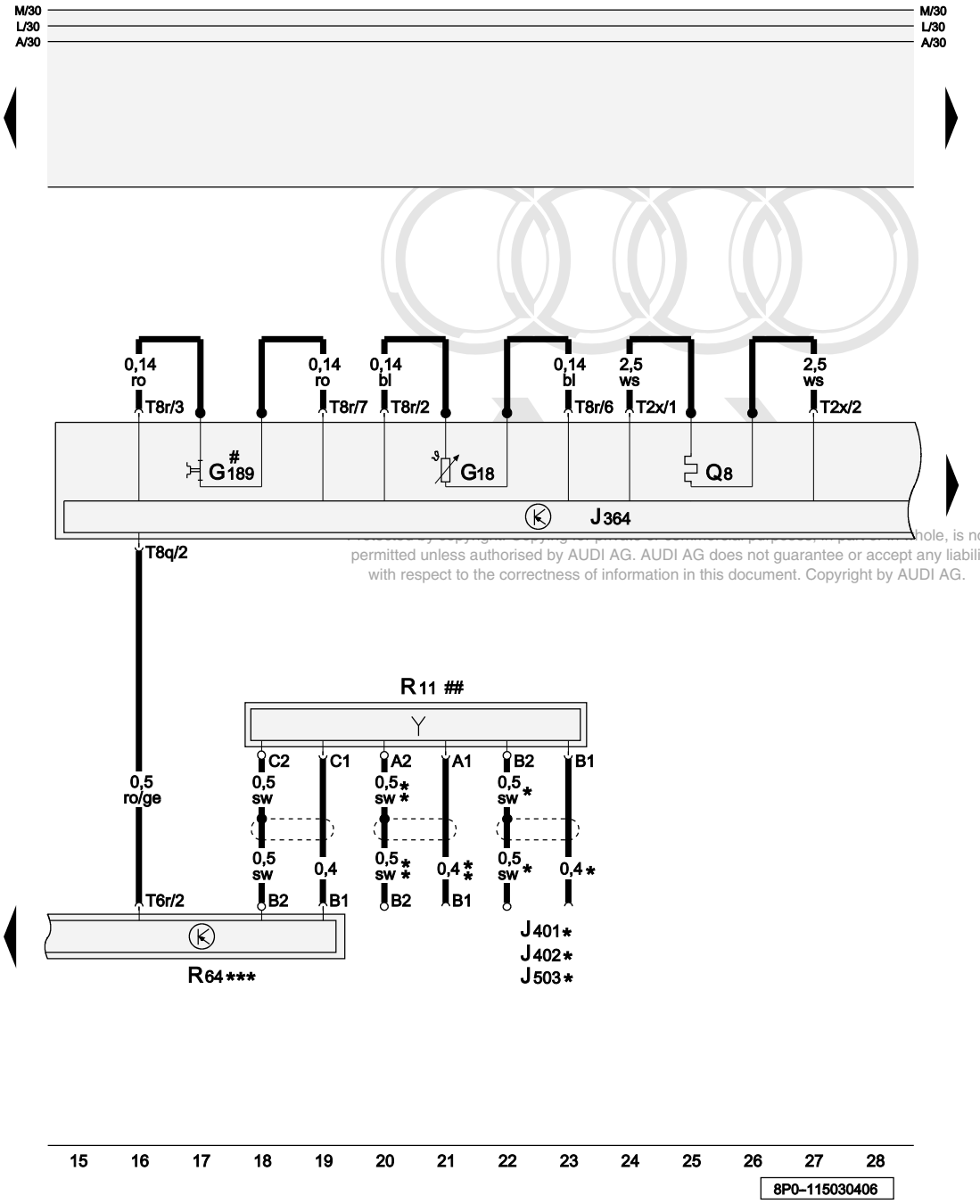


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Remote control receiver for auxiliary heating

R64	Remote control receiver for auxiliary heating
SC16	Fuse 16 on fuse holder C
T6r	6-pin connector, black (connector A)
62	Earth point, right C-pillar
370	Earth connection 5, in main wiring harness
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B302	Positive connection 6 (30), in main wiring harness
B315	Positive connection 1 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
***	for models with remote control receiver auxiliary heating only
#	is dropped from November 2005
##	applicable from November 2005

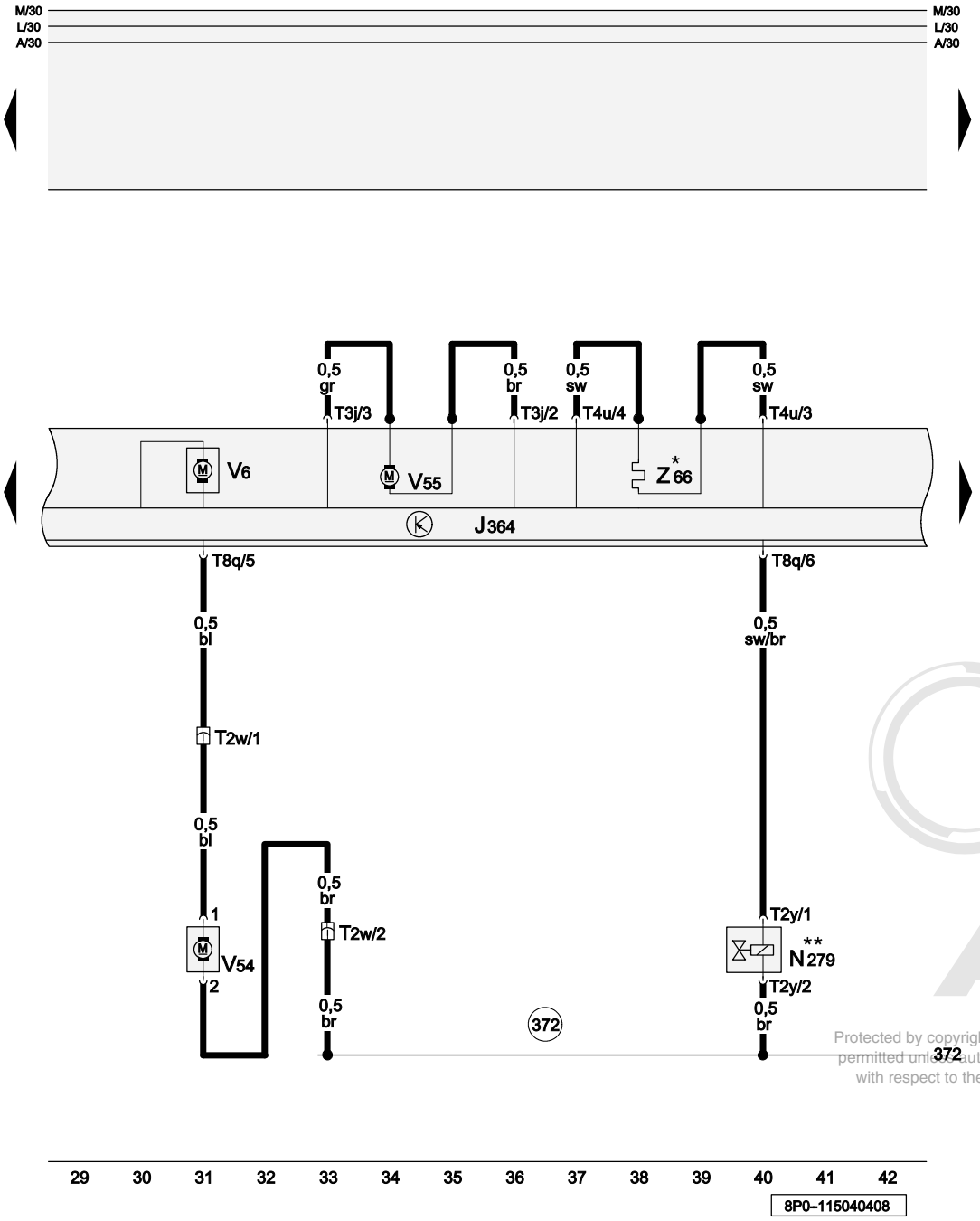


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Roof aerial, remote control receiver for auxiliary heating

G18	Temperature sensor
G189	Overheating sensor
J364	Auxiliary heater control unit
J401	Navigation system with CD drive control unit
J402	Navigation operating electronics control unit
J503	Control unit with display for radio and navigation system
Q8	Glow plug with flame monitor
R11	Aerial
R64	Remote control receiver for auxiliary heating
T2x	2-pin connector, white
T6r	6-pin connector, black (connector A)
T8q	8-pin connector, black (connector A)
T8r	8-pin connector, black
*	for models with navigation system only
**	for models with mobile telephone/ preparation for mobile telephone only
***	for models with remote control receiver auxiliary heating only
#	G189 is replaced by S24, phased-in modification
##	R11 is replaced by R66

ws	=	white
sw	=	black
ro	=	red
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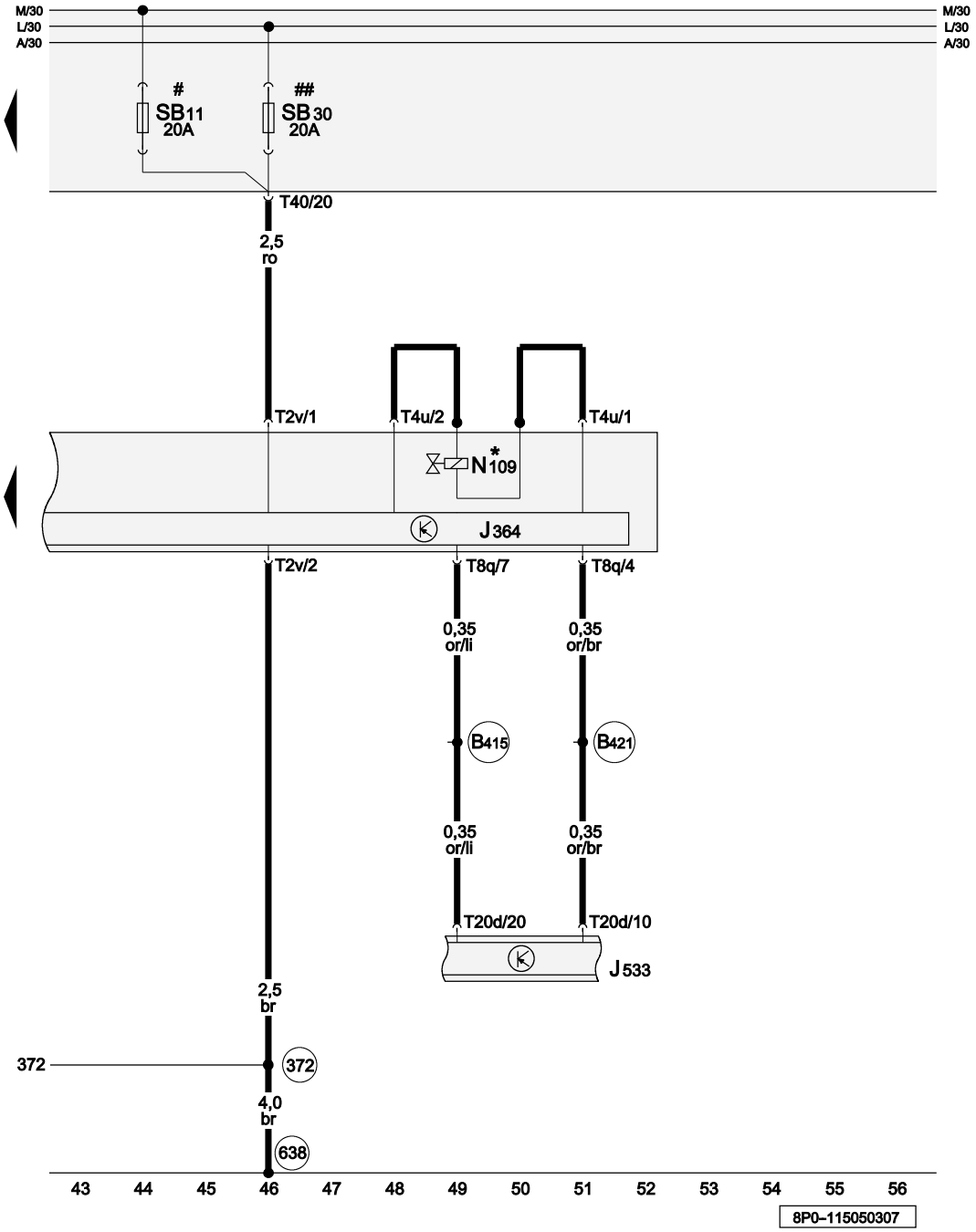


Coolant shut-off valve, heater, metering pump, combustion air blower, circulation pump

J364	Auxiliary heater control unit
N279	Heater coolant shut-off valve
T2w	2-pin connector, black, near fuel pump
T2y	2-pin connector, black
T3j	3-pin connector, black
T4u	4-pin connector, black
T8q	8-pin connector, black (connector A)
V6	Combustion air blower
V54	Metering pump
V55	Circulation pump
Z66	Fuel pre-heating heater element
(372)	Earth connection 7, in main wiring harness
*	for models with diesel engine only
**	for models with coolant shut-off valve, heater only

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ro = red
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Data bus diagnostic interface, voltage supply

J364	Auxiliary heater control unit
J533	Data bus diagnostic interface
N109	Fuel shut-off valve
SB11	Fuse 11 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2v	2-pin connector, black (connector B)
T4u	4-pin connector, black
T8q	8-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	applicable from November 2006
#	for models with electronics box low only ⇒ Fitting Locations
##	for models with electronics box high only ⇒ Fitting Locations

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2.0 l - Fuel injection engine (147 kW - TFSI - 4 cylinder), engine code AXX, BPY

from model year 2006

2.0 l - Fuel injection engine (147 kW - TFSI - 4 cylinder), engine code BWA

from November 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

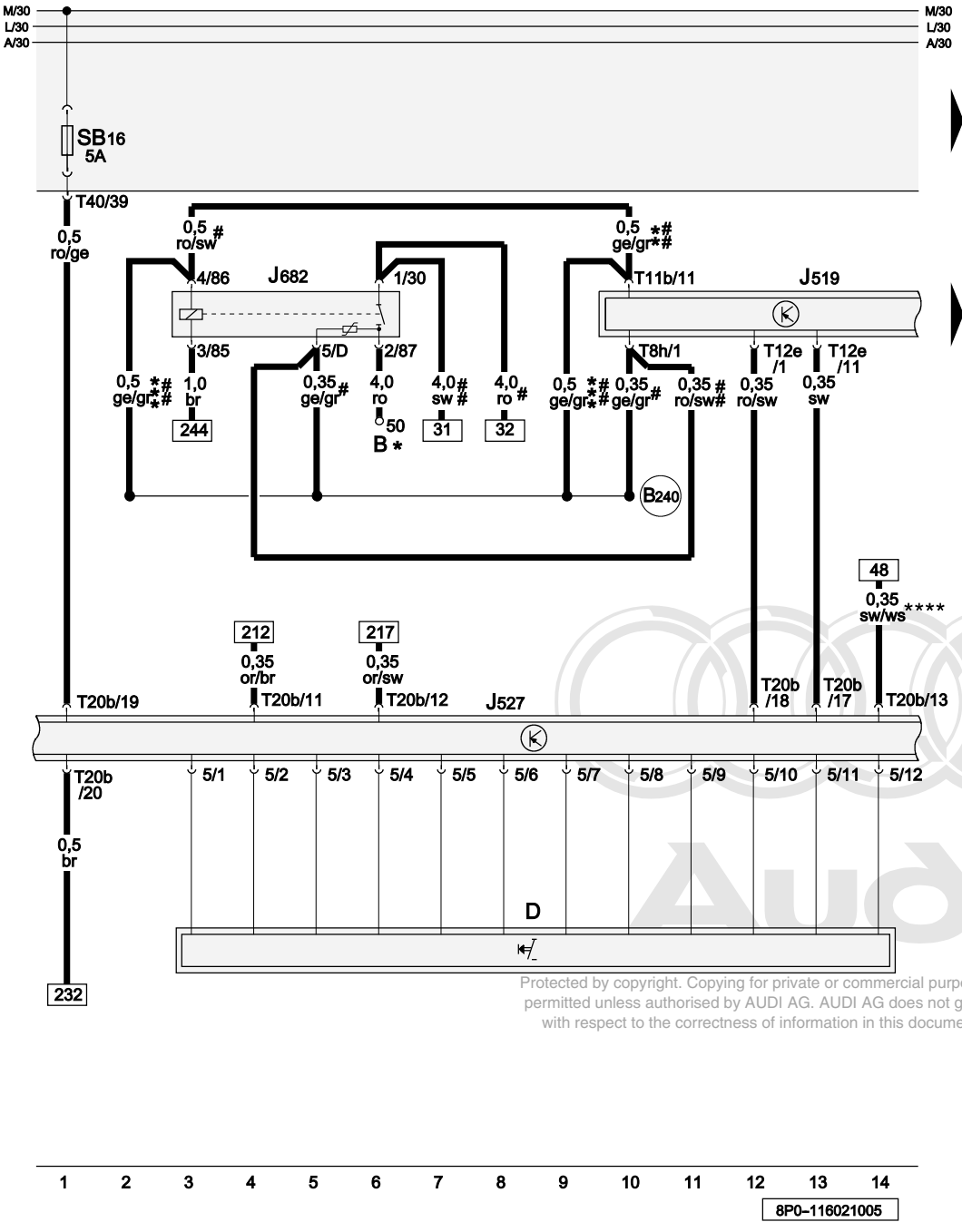
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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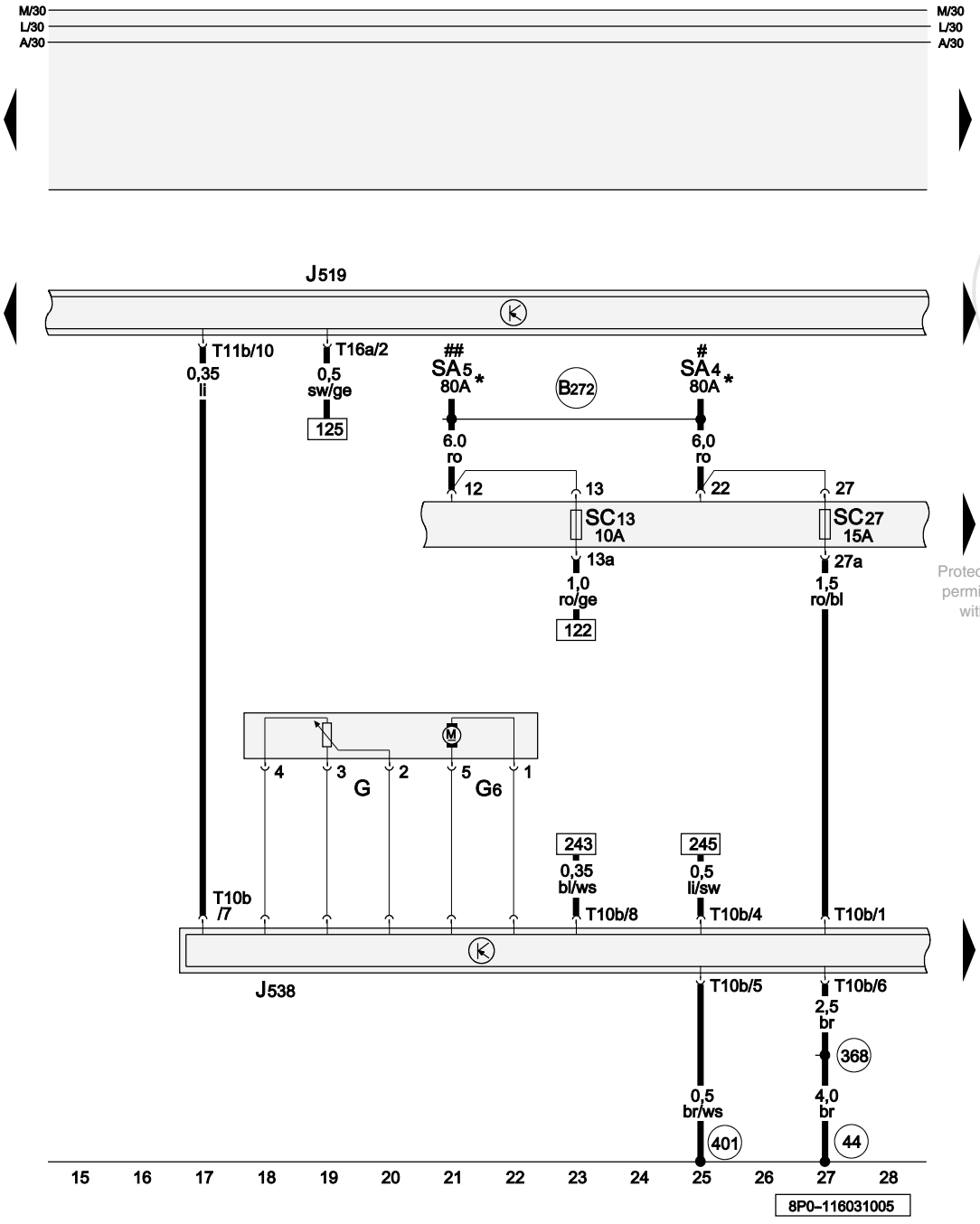


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Terminal 50 voltage supply relay, ignition/starter switch

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB16	Fuse 16 on fuse holder B
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B240	Positive connection 2 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	for models with US equipment only
***	not for models with US equipment
****	for models with cruise control system only
#	is dropped from November 2005
##	applicable from November 2005

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sw	=	black
ro	=	red
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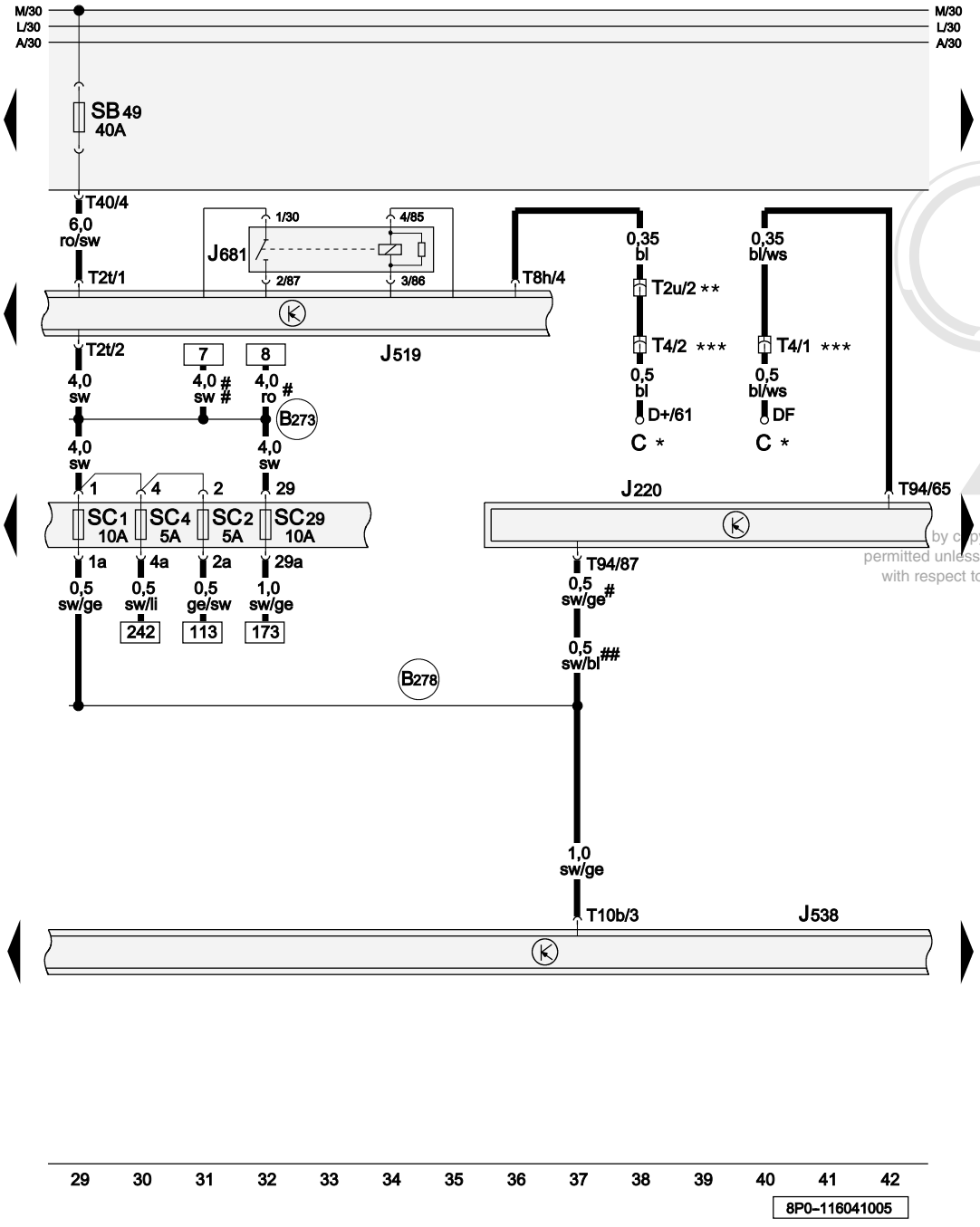


Fuel gauge sender, fuel system pressurisation pump

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J538	Fuel pump control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC13	Fuse 13 on fuse holder C
SC27	Fuse 27 on fuse holder C
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
*	= applicable Current Flow Diagram with battery in engine compartment
#	is dropped from November 2005
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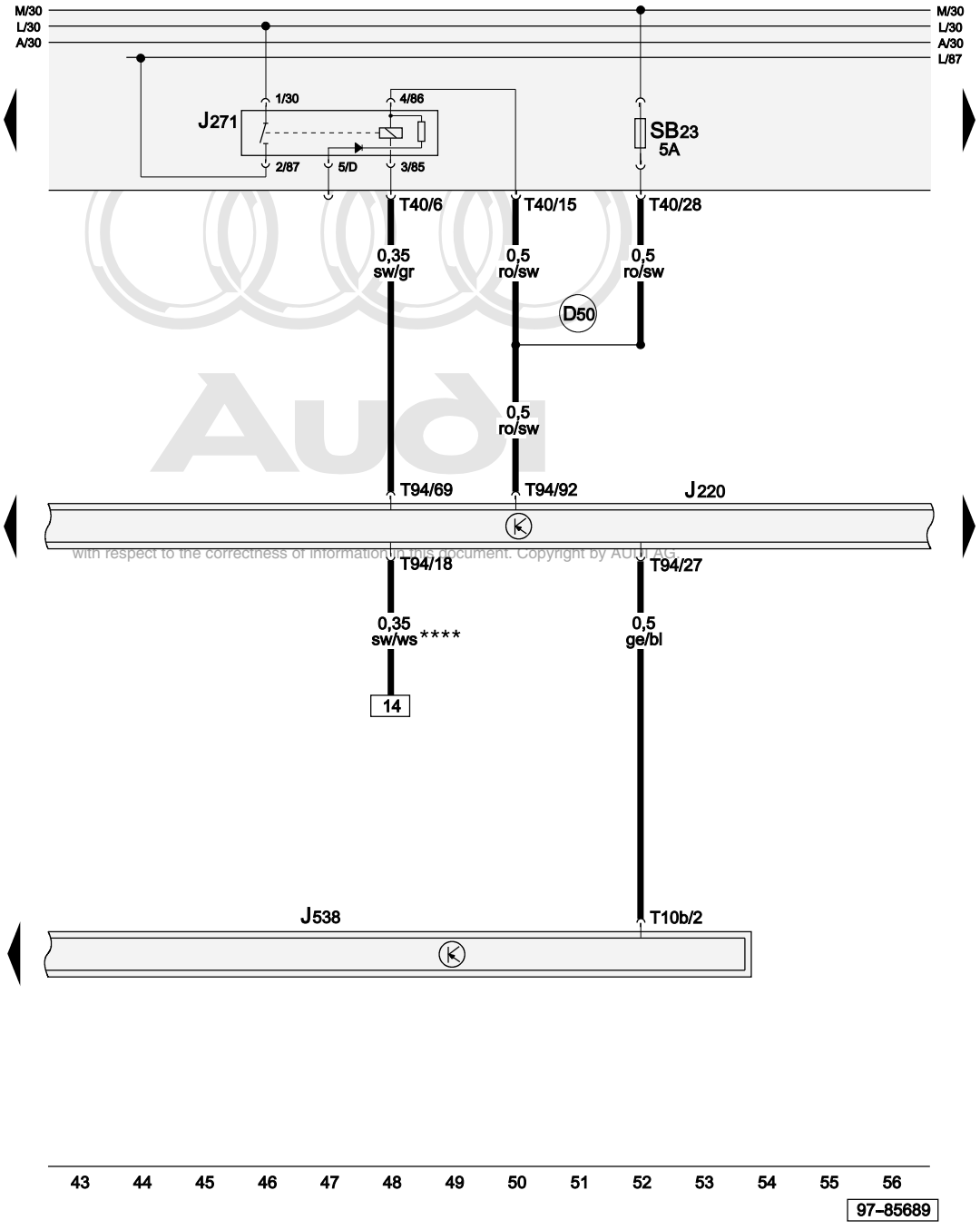


Fuses on fuse holder

C	Alternator
J220	Motronic control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
J681	Terminal 15 voltage supply relay 2
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC29	Fuse 29 on fuse holder C
T2t	2-pin connector, black (connector L)
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
#	is dropped from November 2005
##	applicable from November 2005

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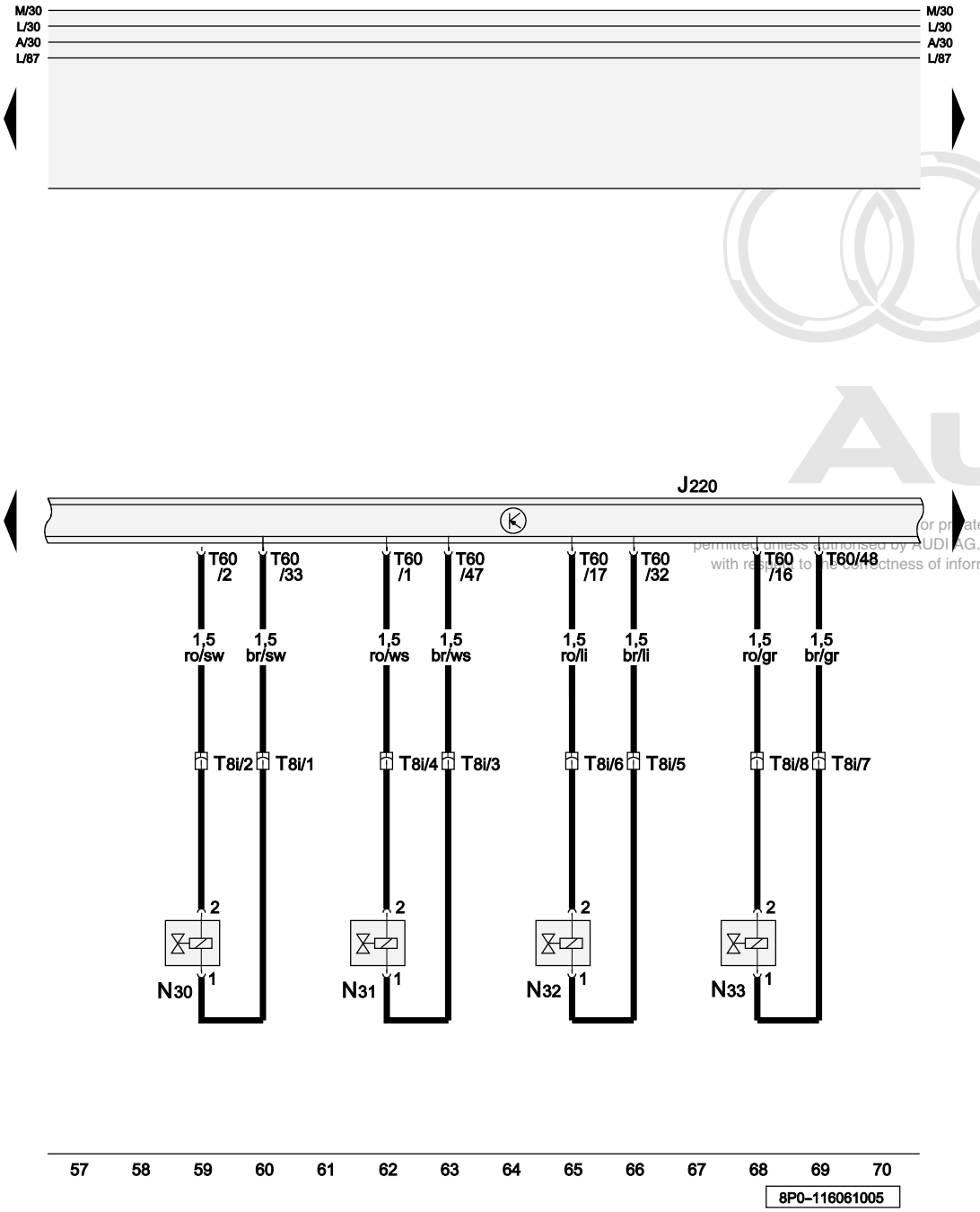


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Motronic current supply relay

J220	Motronic control unit
J271	Motronic current supply relay
J538	Fuel pump control unit
SB23	Fuse 23 on fuse holder B
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
D50	Positive connection (30), in engine compartment wiring harness
****	for models with cruise control system only

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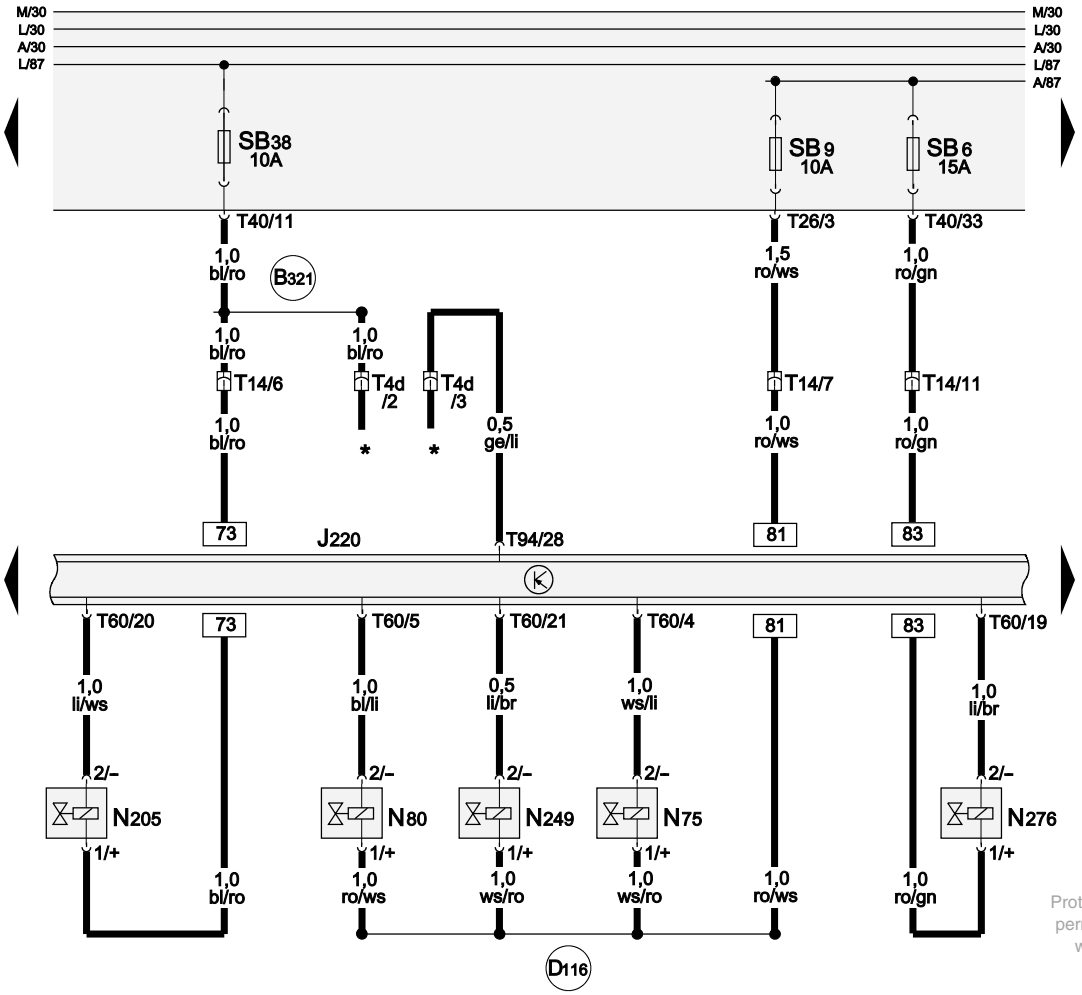
Injectors

J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8i	8-connector, black, near injectors
T60	60-pin connector, black (connector A)

Audi

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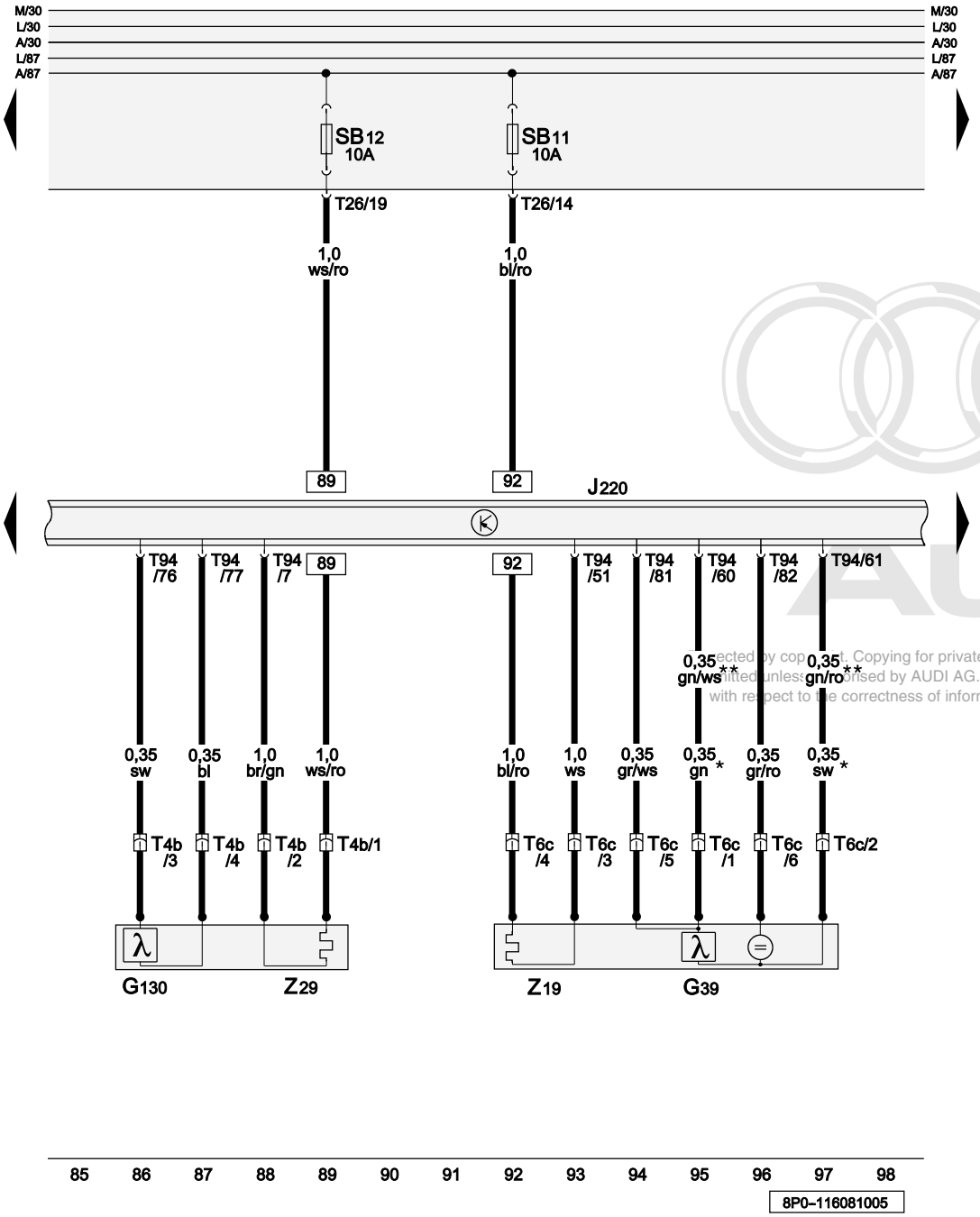


Solenoid valves

J220	Motronic control unit
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter system solenoid valve 1
N205	Inlet camshaft control valve 1
N249	Turbocharger air recirculation valve
N276	Fuel pressure regulating valve
SB6	Fuse 6 on fuse holder B
SB9	Fuse 9 on fuse holder B
SB38	Fuse 38 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B321	Positive connection 7 (30a), in main wiring harness
D116	Connection 14, in engine compartment wiring harness
*	See applicable Current Flow Diagram: radiator fan control

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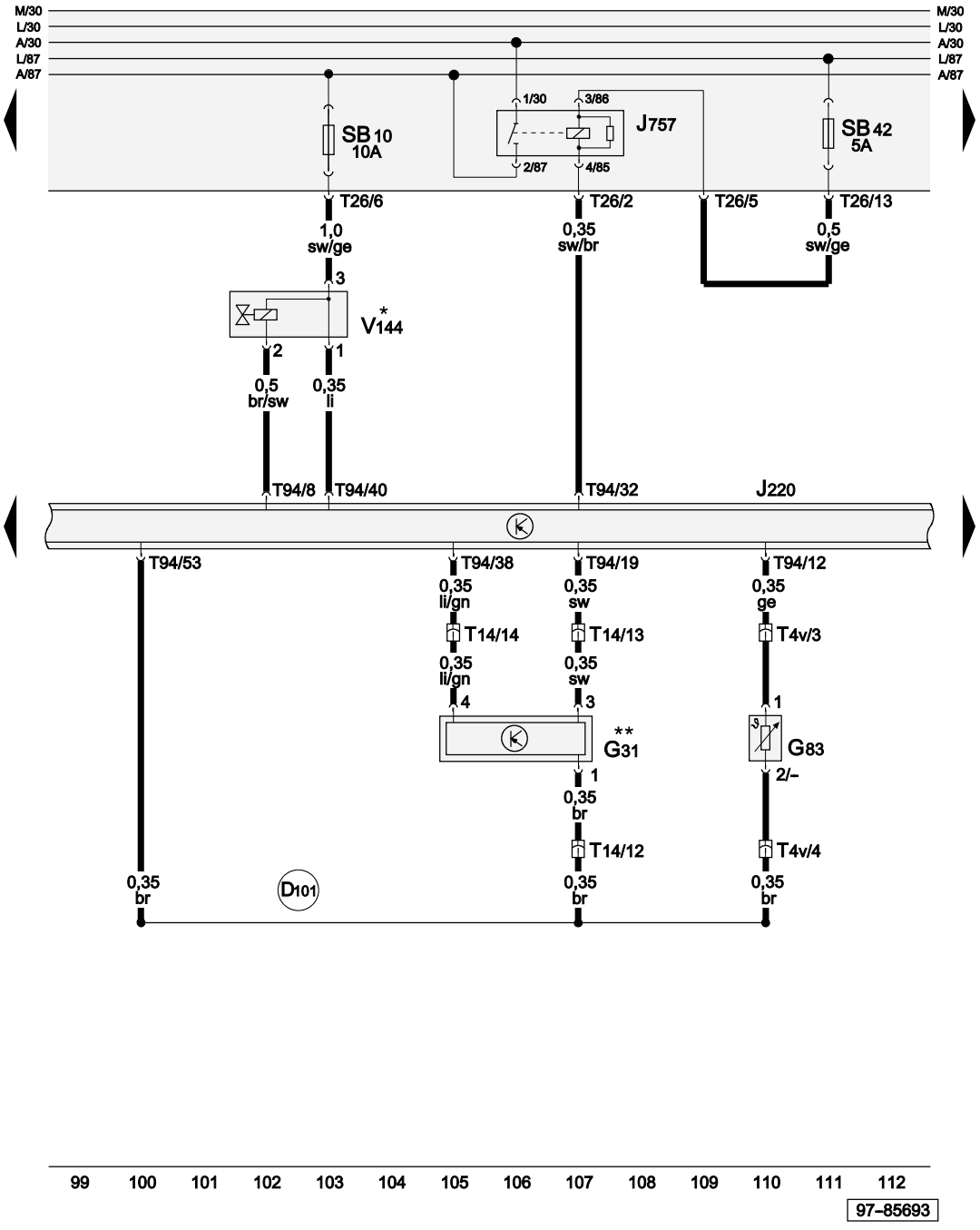


Lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J220	Motronic control unit
SB11	Fuse 11 on fuse holder B
SB12	Fuse 12 on fuse holder B
T4b	4-pin connector, black, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
*	No longer fitted, phased-in modification
**	phased-in modification

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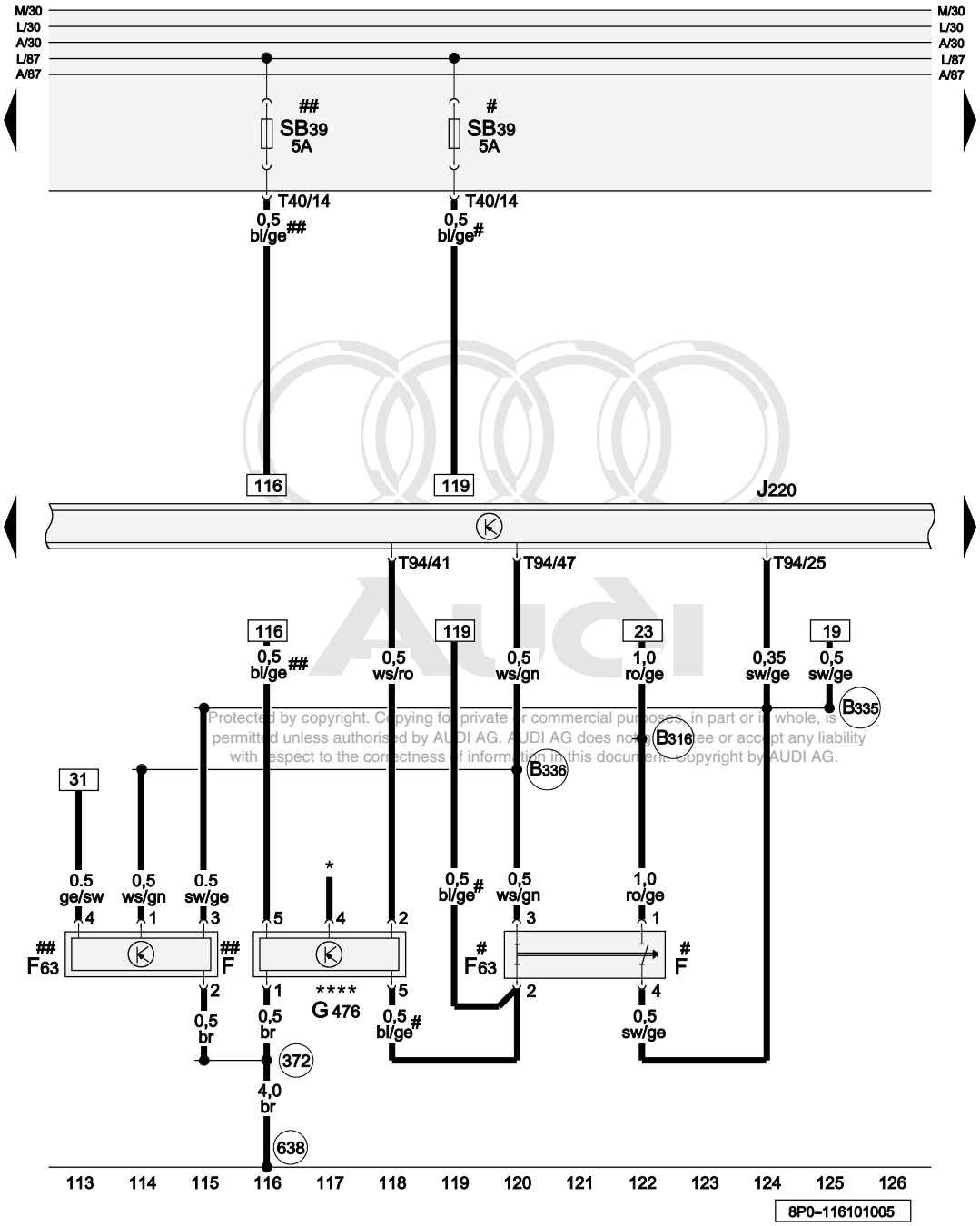


Radiator outlet coolant temperature sender, engine component current supply relay

G31	Charge air pressure sender
G83	Radiator outlet coolant temperature sender
J220	Motronic control unit
J757	Engine component current supply relay
SB10	Fuse 10 on fuse holder B
SB42	Fuse 42 on fuse holder B
T4v	4-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T94	94-pin connector, black (connector B)
V144	Fuel system diagnostic pump
(D101)	Connection 1, in engine compartment wiring harness
*	for models with fuel system diagnostic pump only
**	for models with charge air pressure sender only

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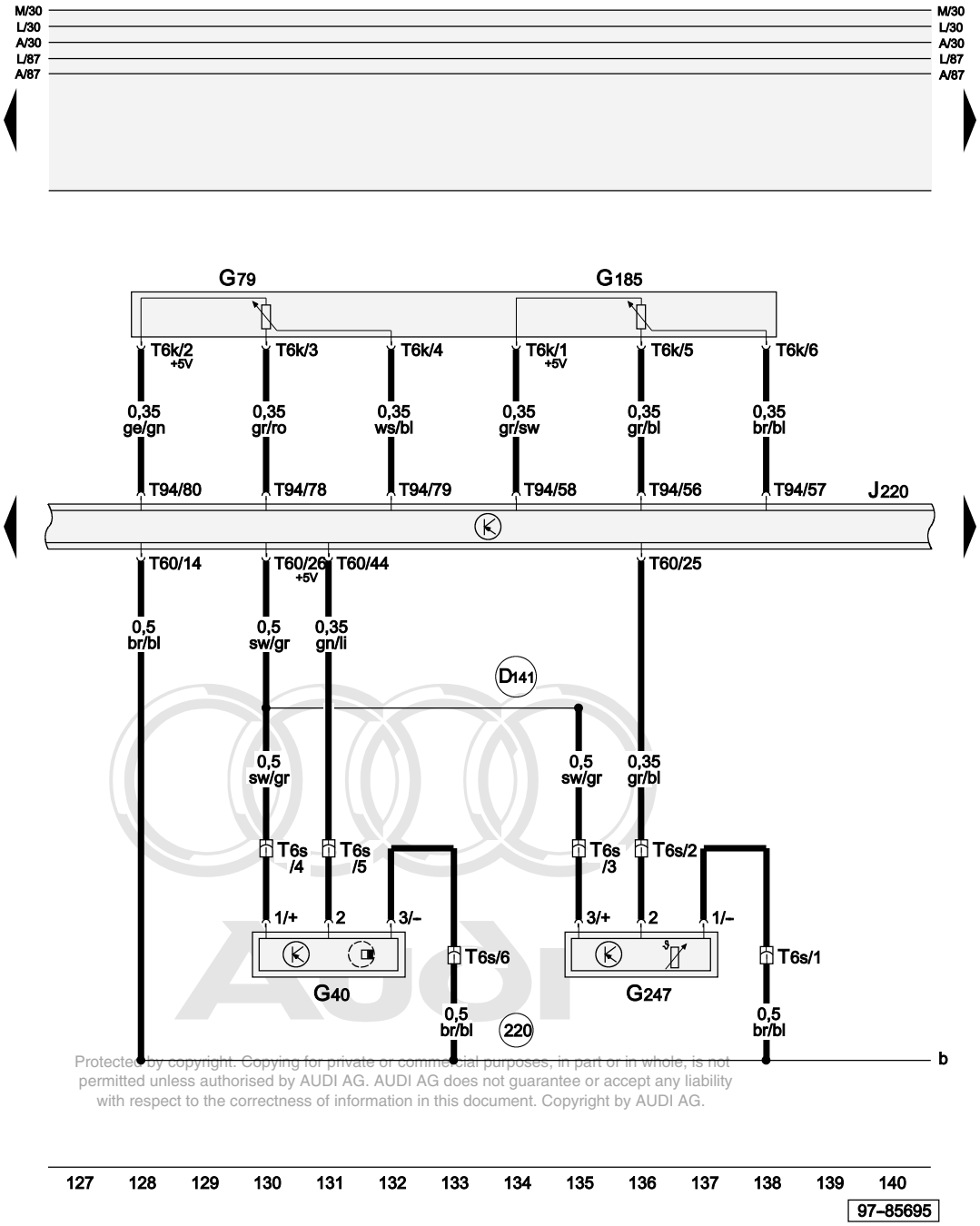


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Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
SB39	Fuse 39 on fuse holder B
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
B336	Connection 2 (54), in main wiring harness
*	for models with US equipment only, ⇒ applicable Current Flow Diagram basic equipment
****	for models with manual gearbox only
#	is dropped from November 2005
##	applicable from November 2005

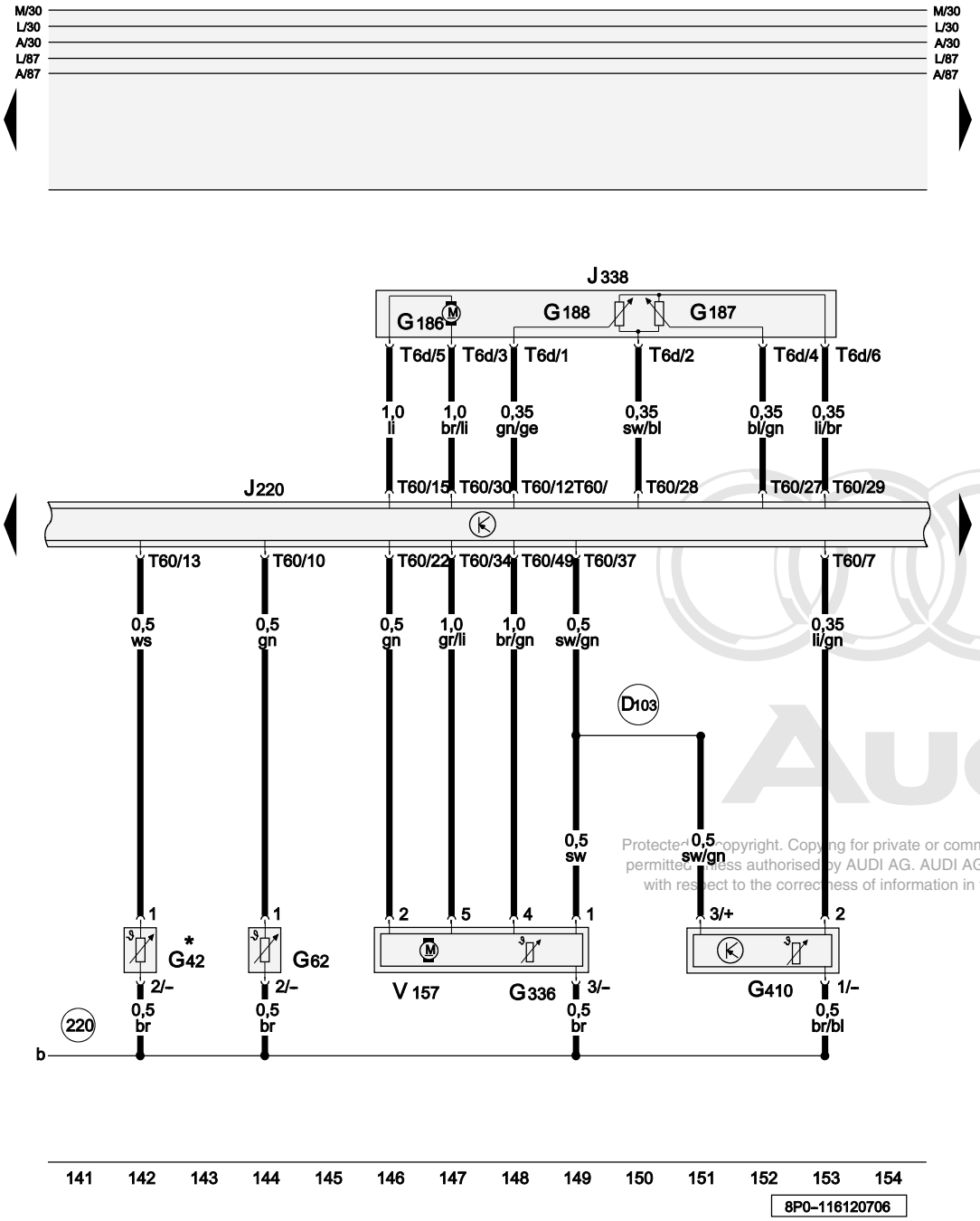


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Hall sender, fuel pressure sender, accelerator position sender

G40	Hall sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G247	Fuel pressure sender
J220	Motronic control unit
T6k	6-pin connector, black, near accelerator position sender
T6s	6-pin connector, black, behind intake manifold
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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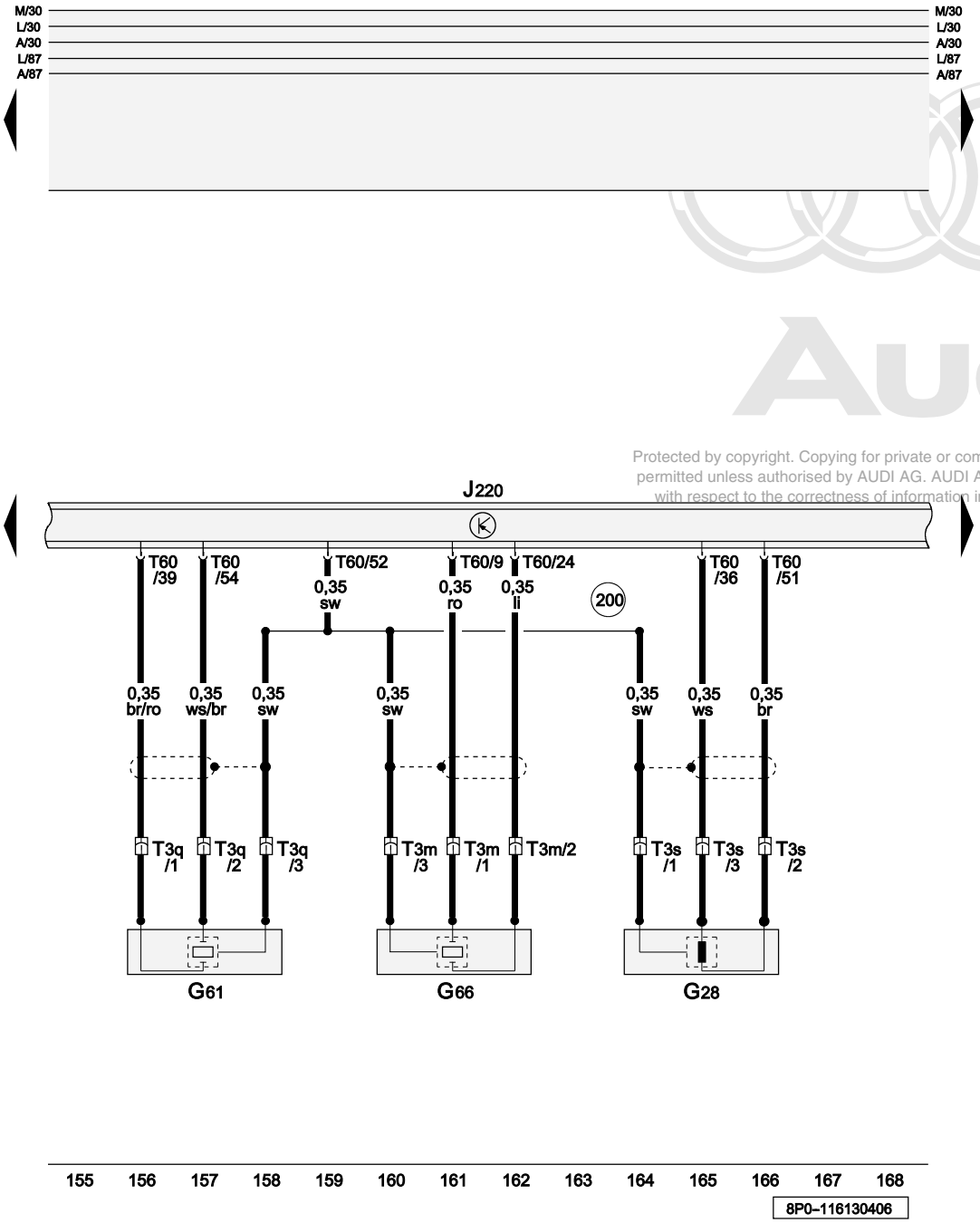


Coolant temperature sender, intake air temperature sender 2, intake manifold flap potentiometer

G42	Intake air temperature sender
G62	Coolant temperature sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G336	Intake manifold flap potentiometer
G410	Fuel pressure sender for low pressure
J220	Motronic control unit
J338	Throttle valve module
T6d	6-pin connector, black, near throttle valve module
T60	60-pin connector, black (connector A)
V157	Intake manifold flap motor
(220)	Earth connection (sender earth), in engine wiring harness
(D103)	Connection 3, in engine compartment wiring harness
*	G42 is replaced by G299

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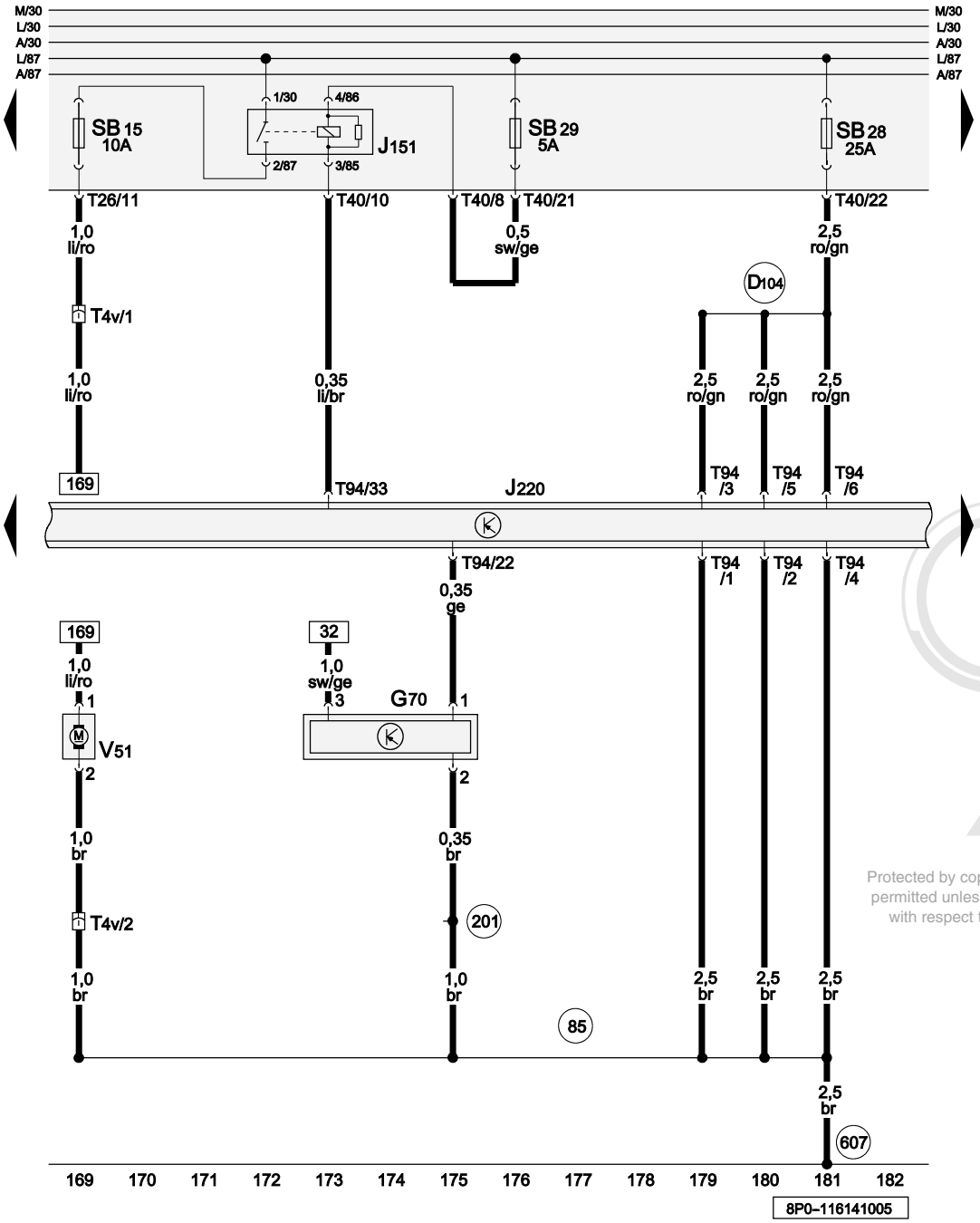


Engine speed sender, knock sensors

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J220	Motronic control unit
T3q	3-pin connector, green, in left engine compartment (knock sensor)
T3m	3-pin connector, brown, near gearbox
T3s	3-pin connector
T60	60-pin connector, black (connector A)
200	Earth connection (screening) in engine compartment wiring harness

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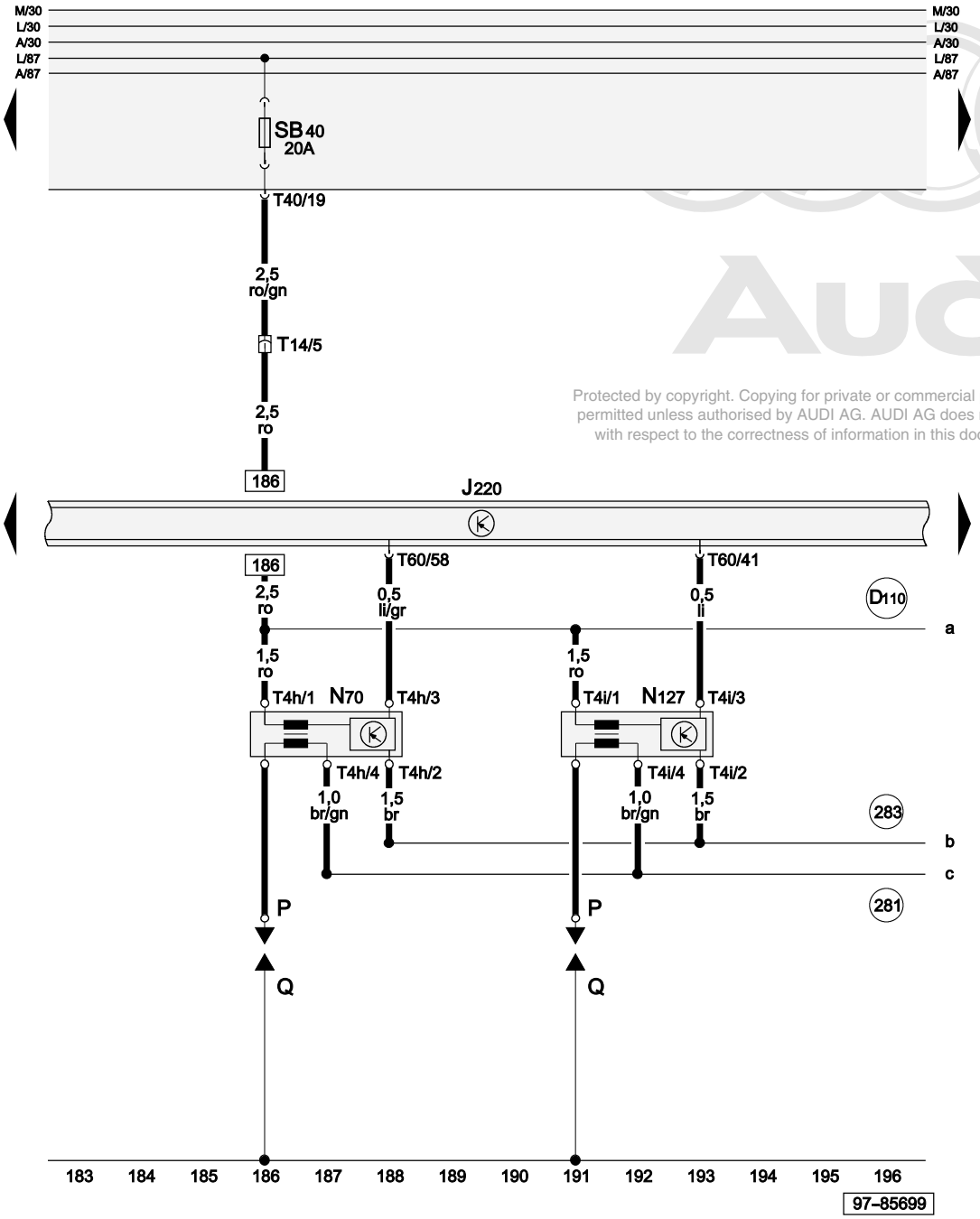


Air mass meter, continued coolant circulation relay

G70	Air mass meter
J151	Continued coolant circulation relay
J220	Motronic control unit
SB15	Fuse 15 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB29	Fuse 29 on fuse holder B
T4v	4-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
V51	Continued coolant circulation pump
85	Earth connection 1, in engine compartment wiring harness
201	Earth connection 5, in engine compartment wiring harness
607	Earth point, on left in plenum chamber
D104	Positive connection 2 (30a), in engine compartment wiring harness

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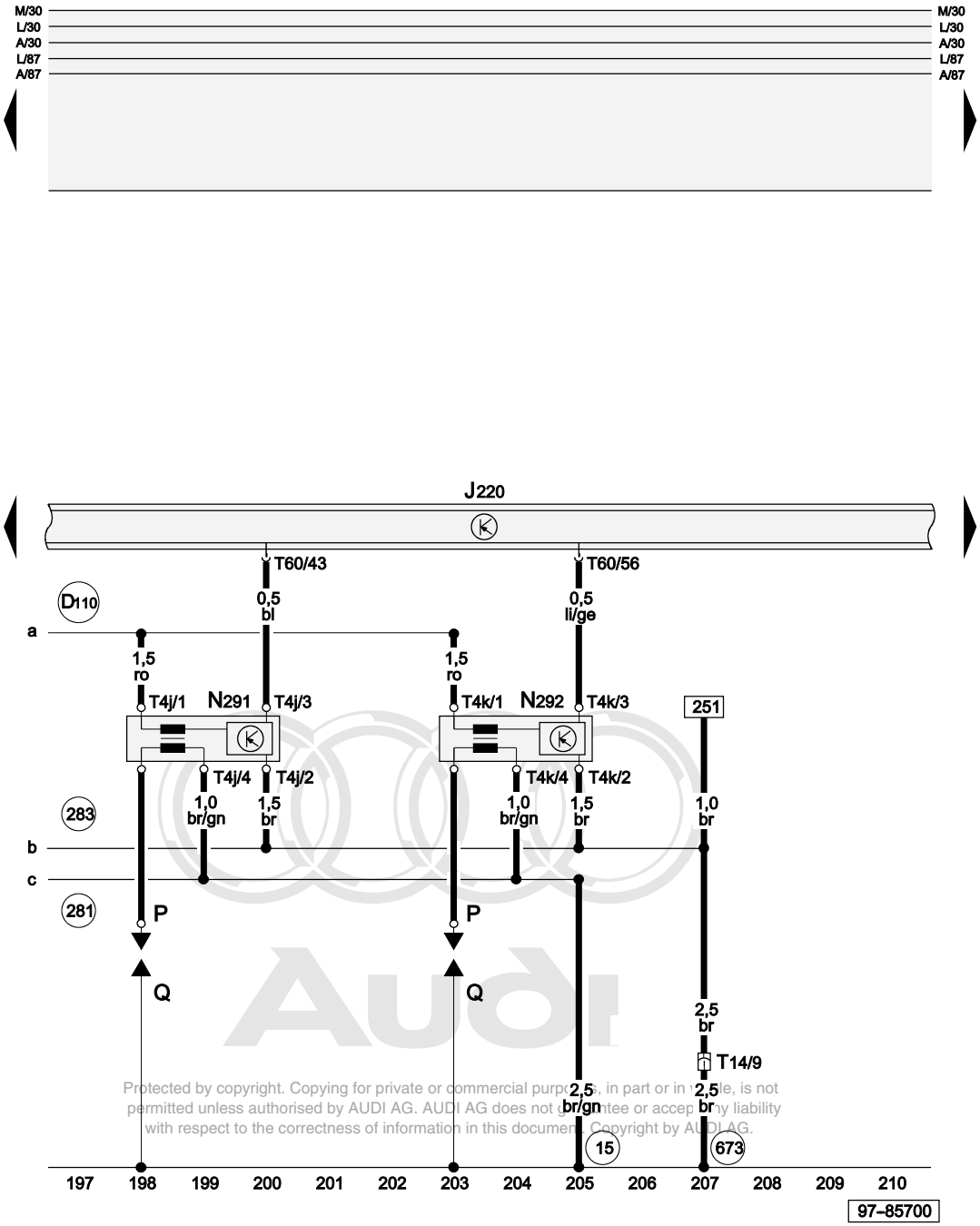


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Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
P	Spark plug connector
Q	Spark plugs
SB40	Fuse 40 on fuse holder B
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
D110	Connection 8, in engine compartment wiring harness

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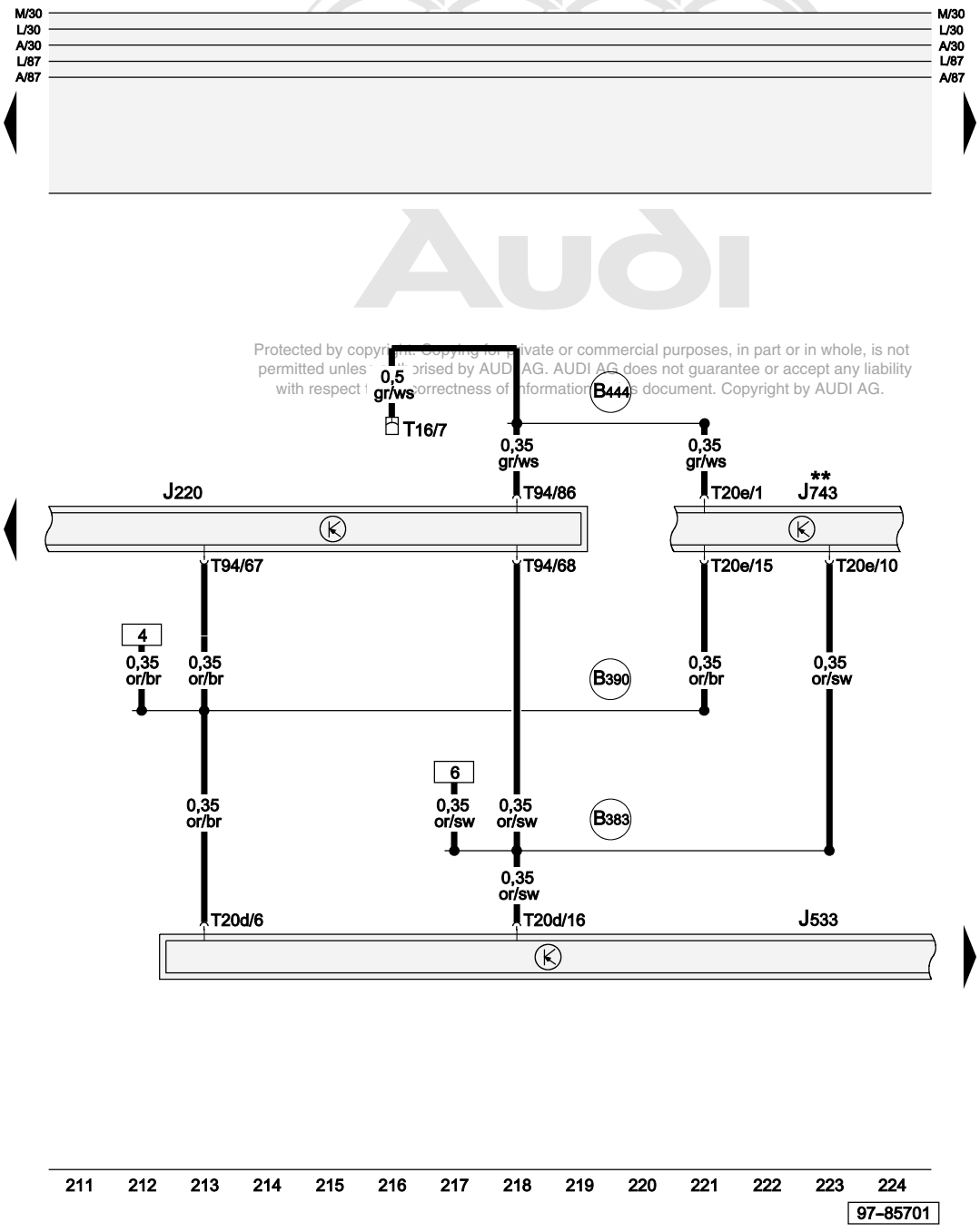


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Ignition coils 3 and 4 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4j	4-pin connector, black, on ignition coil 3 with output stage
T4k	4-pin connector, black, on ignition coil 4 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
15	Earth point, on cylinder head
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
673	Earth point 3, on front of left longitudinal member
D110	Connection 8, in engine compartment wiring harness

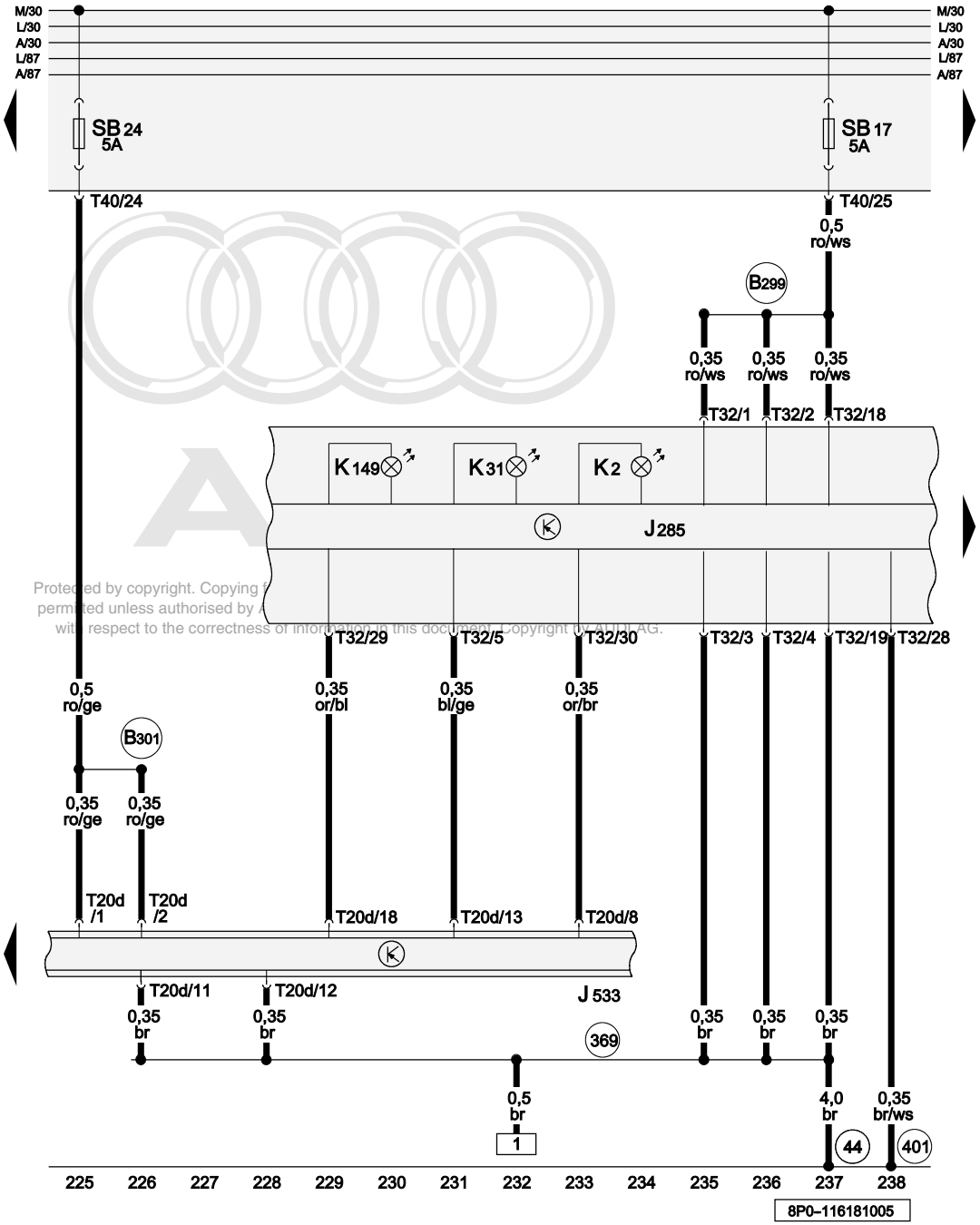


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Drive train CAN bus, diagnosis

J220	Motronic control unit
J533	Data bus diagnostic interface
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
**	for models with direct shift gearbox (02E) only

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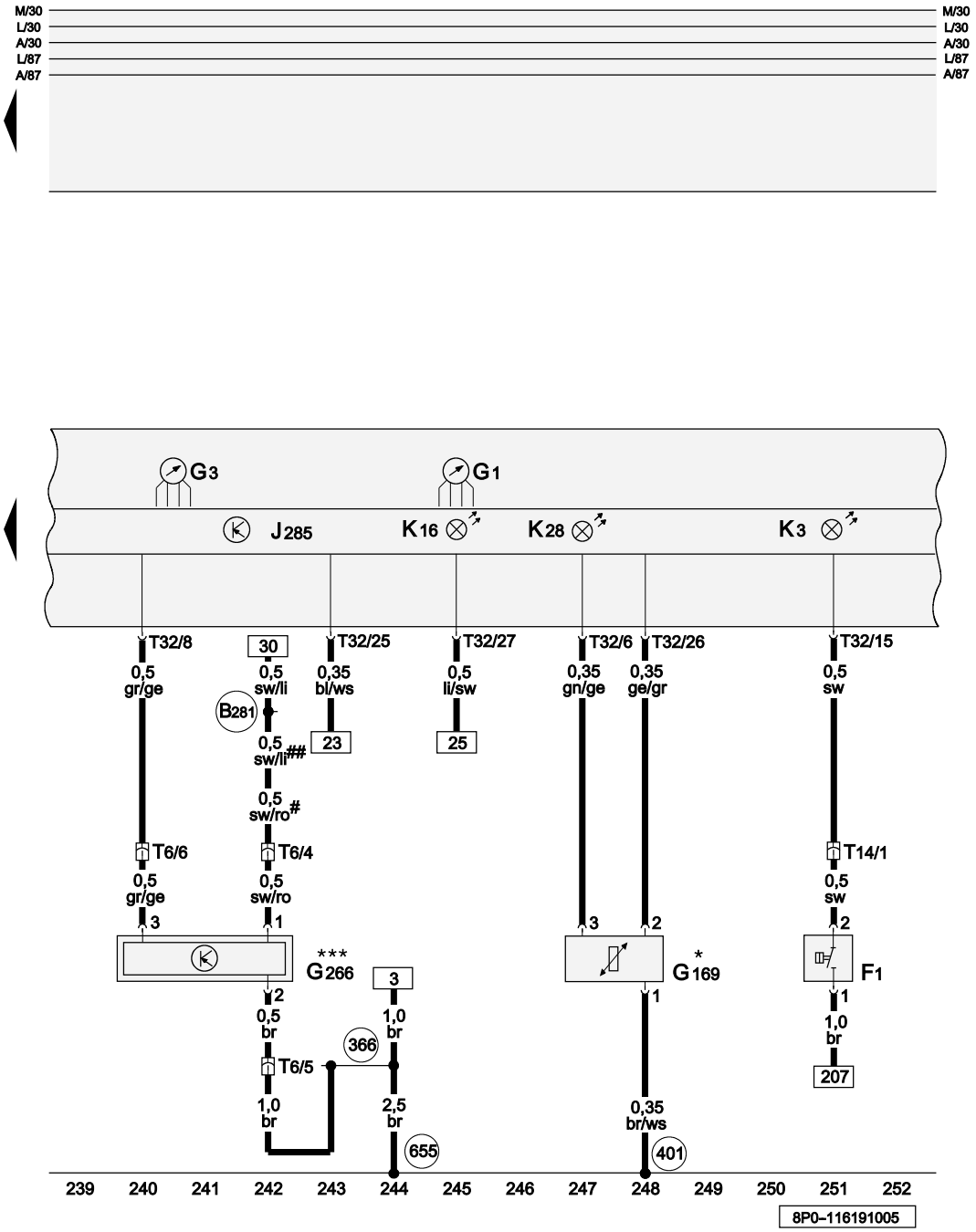


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Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB17	Fuse 17 on fuse holder B
SB24	Fuse 24 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G169	Fuel gauge sender 2
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
655	Earth point, on left headlight
B281	Positive connection 5 (15a), in main wiring harness
*	for models with four-wheel drive only
***	for models with extended servicing intervals (ESI) only
#	No longer fitted, phased-in modification
##	phased-in modification

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1.6 l - Fuel injection engine (75 kW - Simos - 4 cylinder), engine code BSE, BSF

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

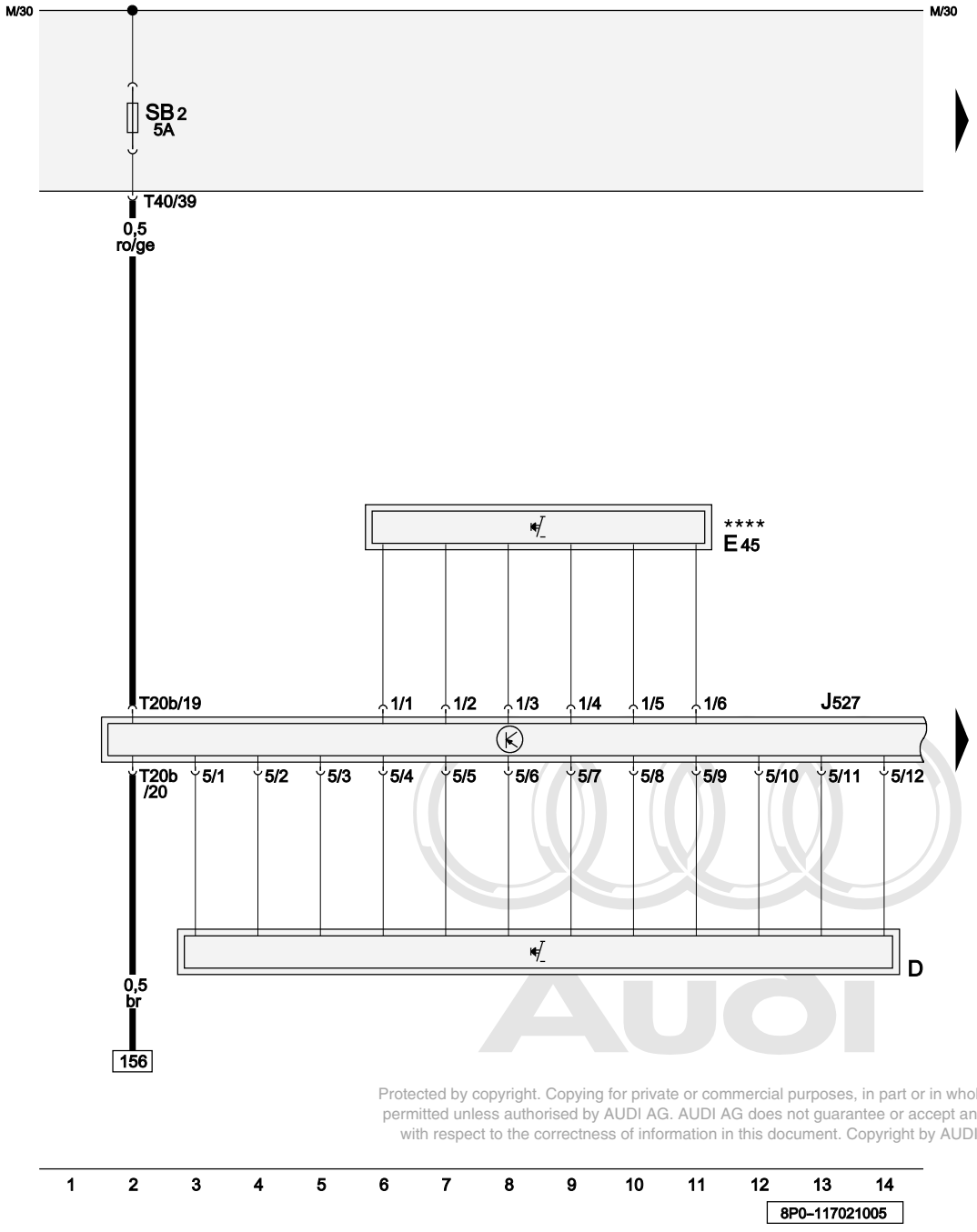
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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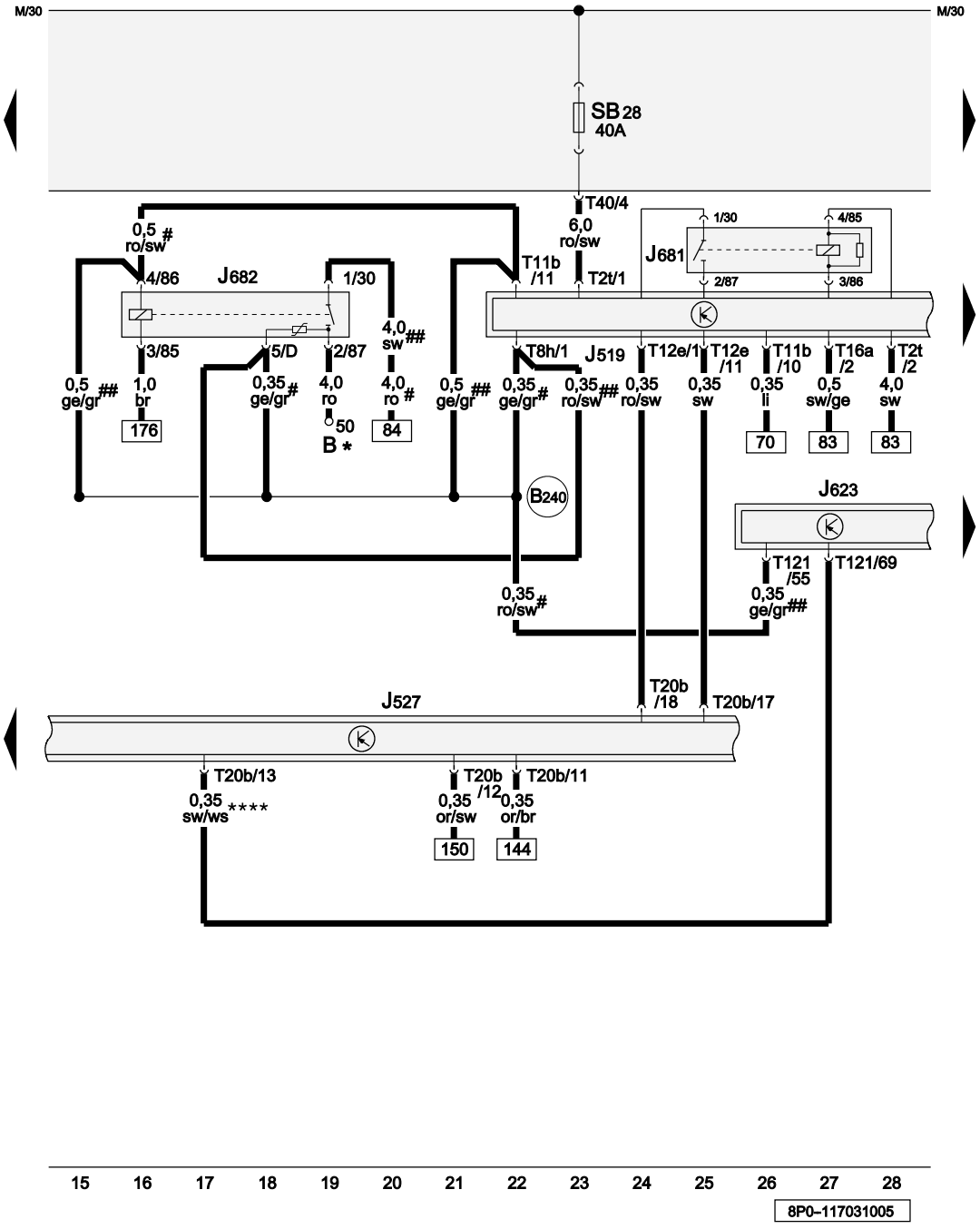


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J527	Steering column electronics control unit
SB2	Fuse 2 on fuse holder B
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
****	for models with cruise control system only

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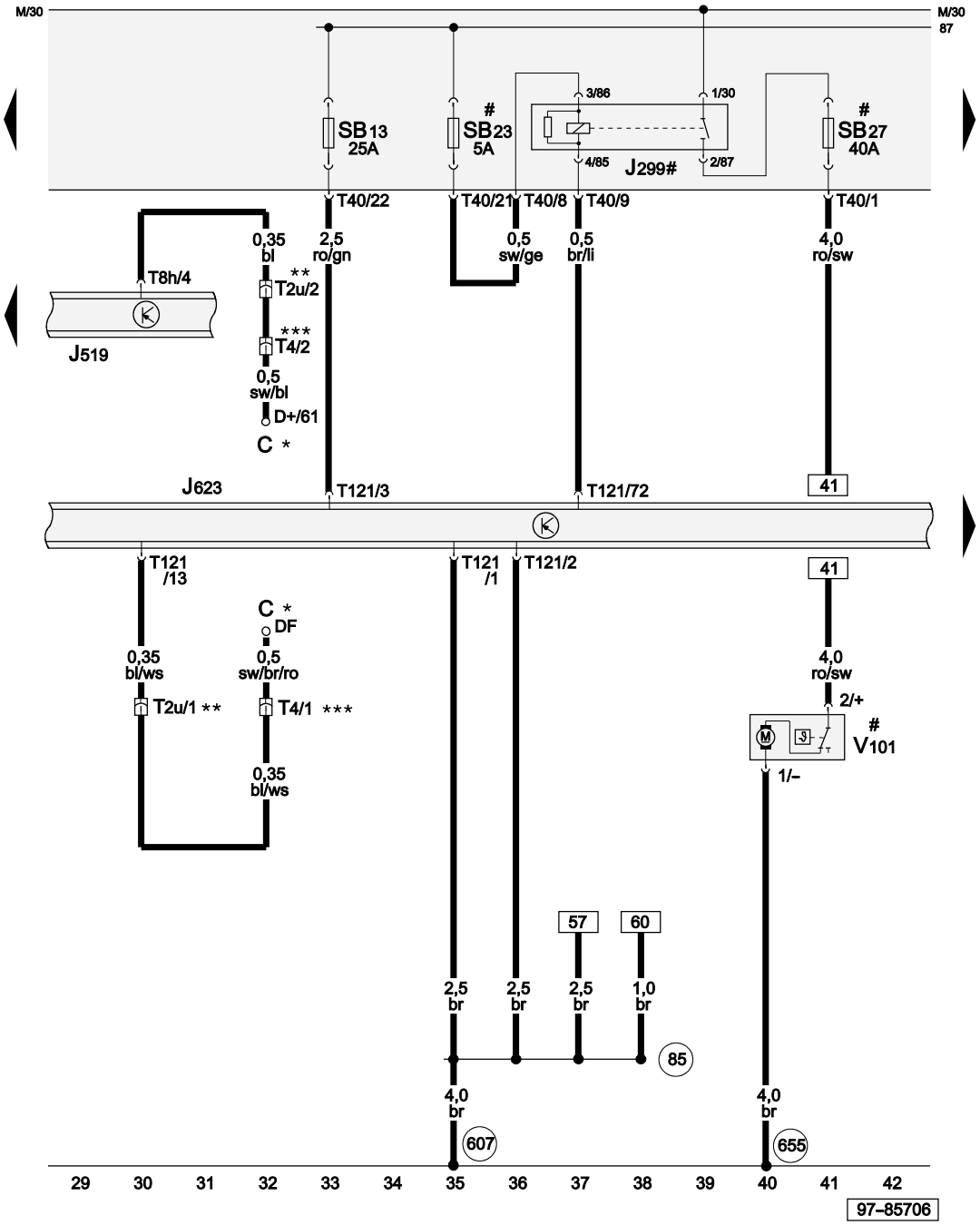


Terminal 50 voltage supply relay

B	Starter
J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
J681	Terminal 15 voltage supply relay 2
J682	Terminal 50 voltage supply relay
SB28	Fuse 28 on fuse holder B
T2t	2-pin connector, black (connector L)
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T16a	16-pin connector, black (connector E)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
B240	Positive connection 2 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
****	for models with cruise control system only
#	Is dropped from November 2005
##	applicable from November 2005

ws	=	white
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ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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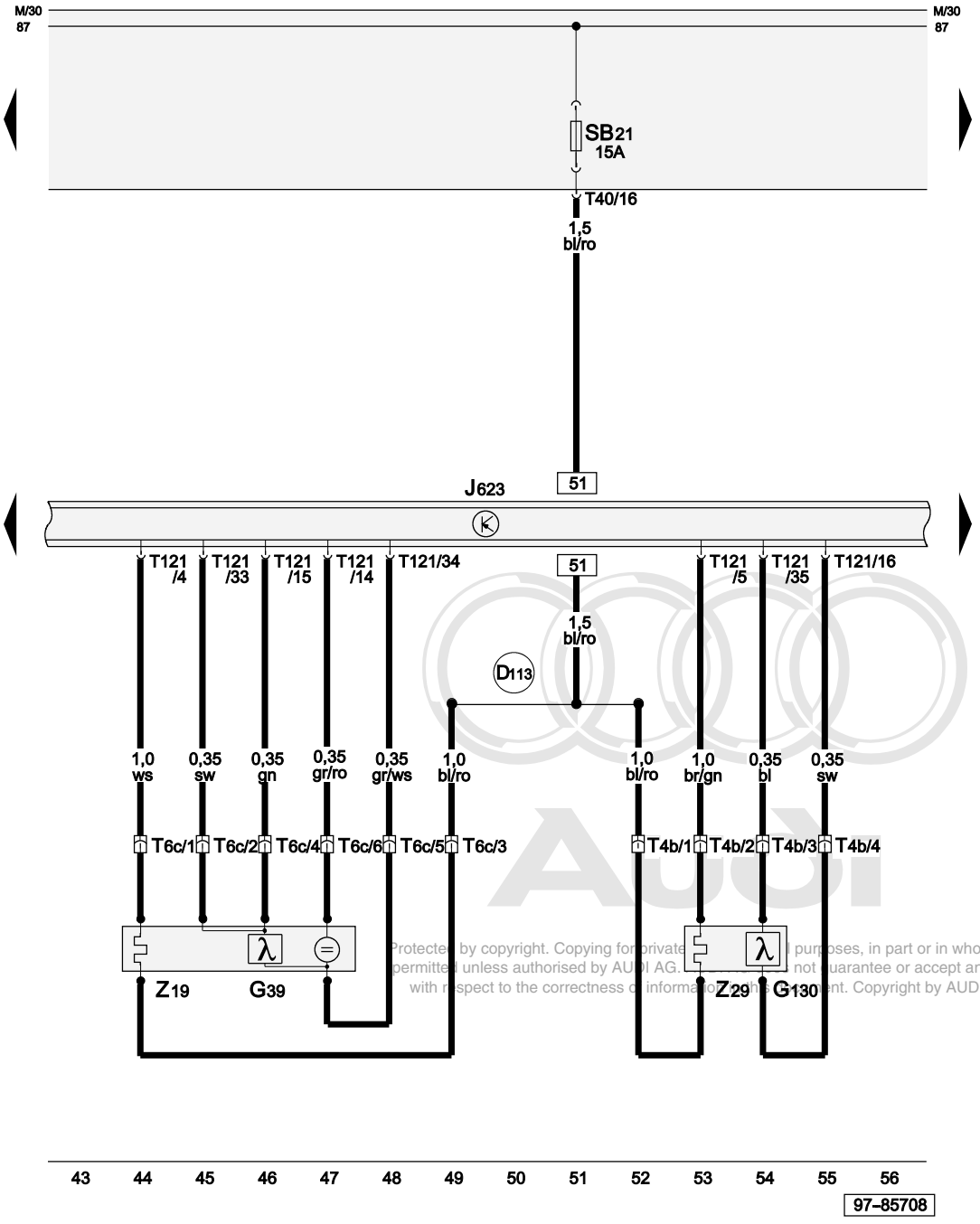


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Secondary air pump relay, secondary air pump motor

C	Alternator
J299	Secondary air pump relay
J519	Onboard supply control unit
J623	Engine control unit
SB13	Fuse 13 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB27	Fuse 27 on fuse holder B
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
V101	Secondary air pump motor
85	Earth connection 1, in engine compartment wiring harness
607	Earth point, on left in plenum chamber
655	Earth point, on left headlight
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
#	for models with engine code BSE only

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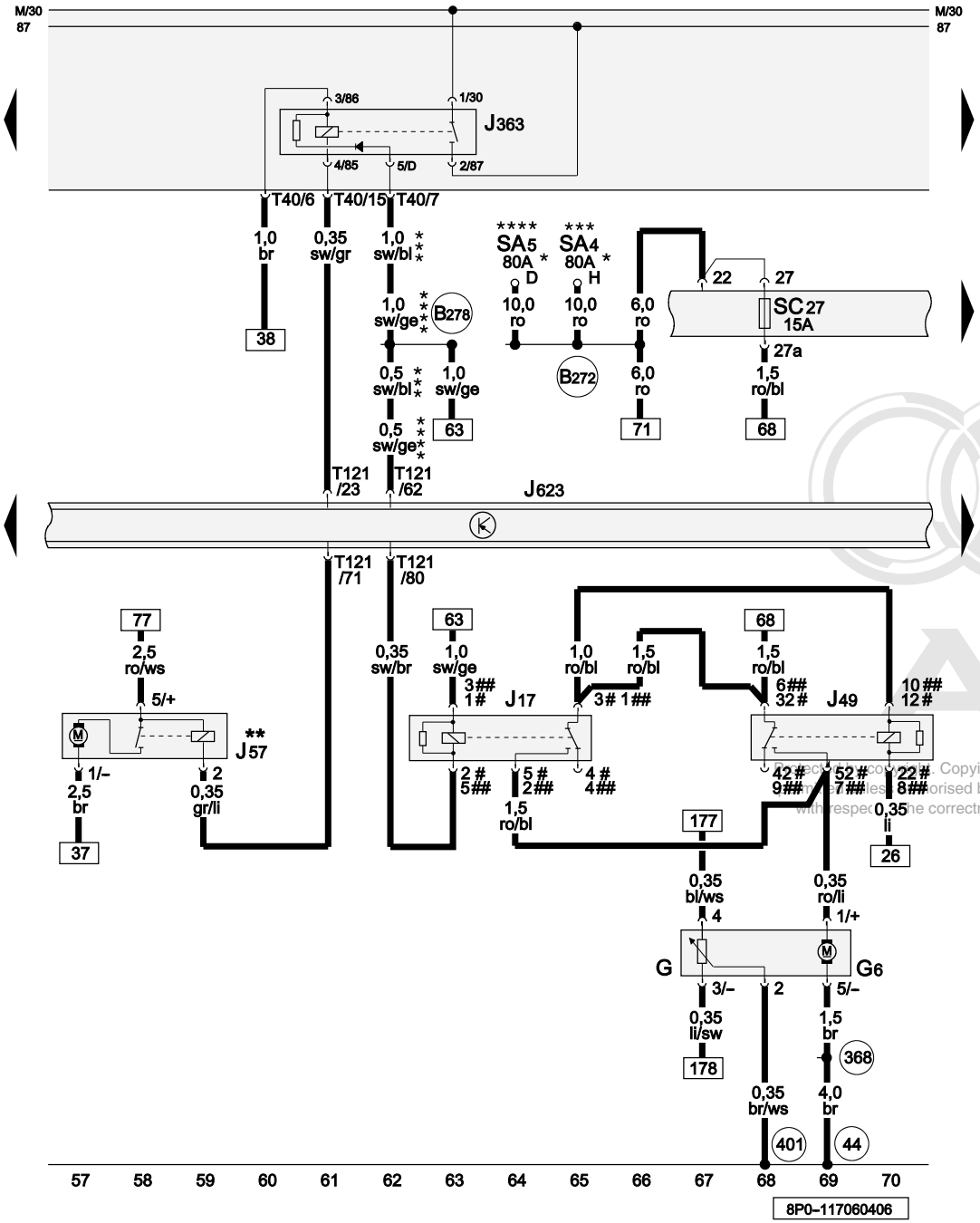


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Lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J623	Engine control unit
SB21	Fuse 21 on fuse holder B
T4b	4-pin connector, black, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D113	Connection 11, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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ge	=	yellow
or	=	orange
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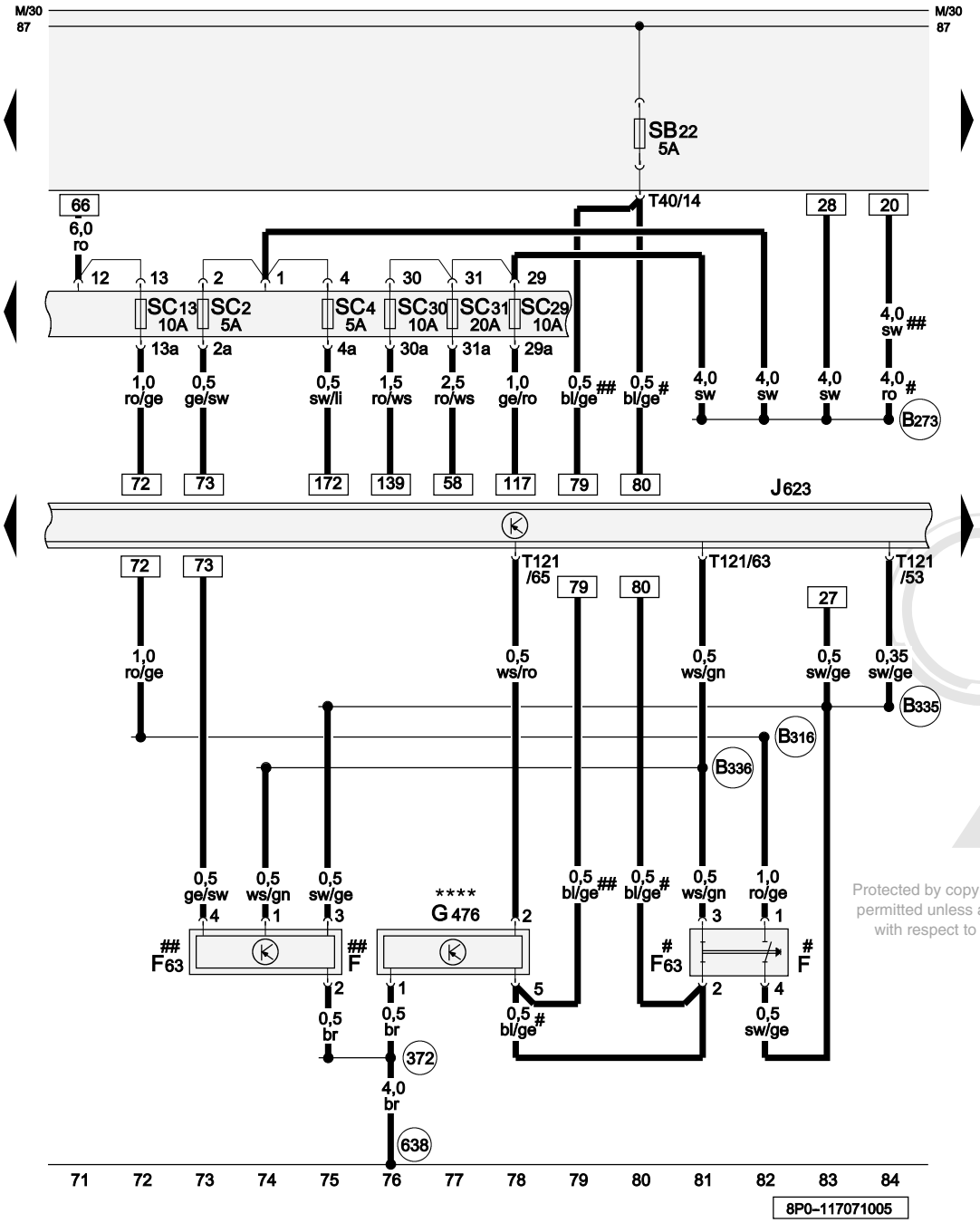


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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
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Current supply relay for Simos control unit, electric fuel pump 2 relay

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J57	Vacuum pump relay
J363	Current supply relay for Simos control unit
J623	Engine control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC27	Fuse 27 on fuse holder C
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	for models with automatic gearbox only
***	Is dropped from November 2005
****	applicable from November 2005
#	No longer fitted, phased-in modification
##	phased-in modification

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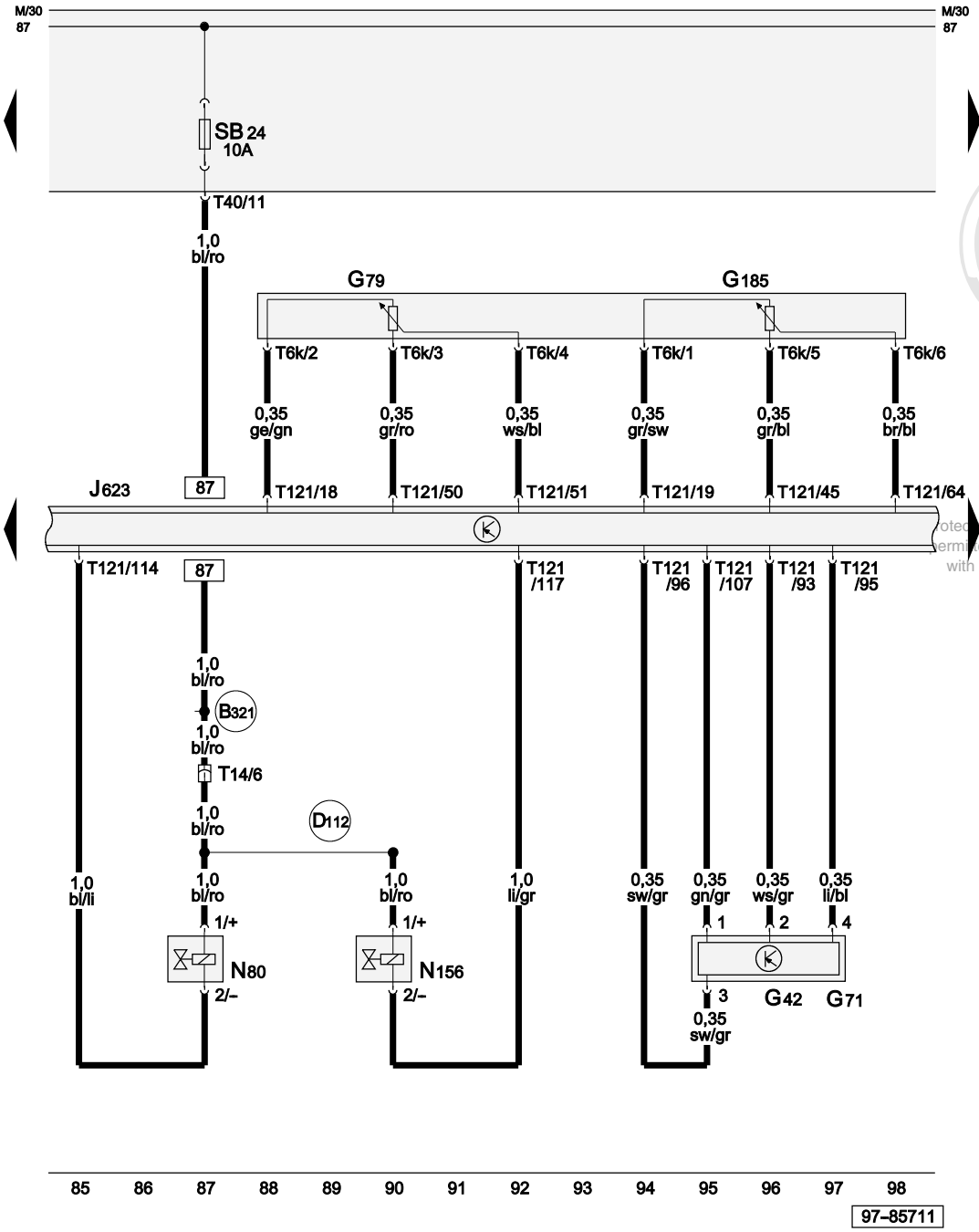


Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J623	Engine control unit
SB22	Fuse 22 on fuse holder B
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC29	Fuse 29 on fuse holder C
SC30	Fuse 30 on fuse holder C
SC31	Fuse 31 on fuse holder C
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B273	Positive connection (15), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
B336	Connection 2 (54), in main wiring harness
****	for models with manual gearbox only
#	Is dropped from November 2005
##	applicable from November 2005

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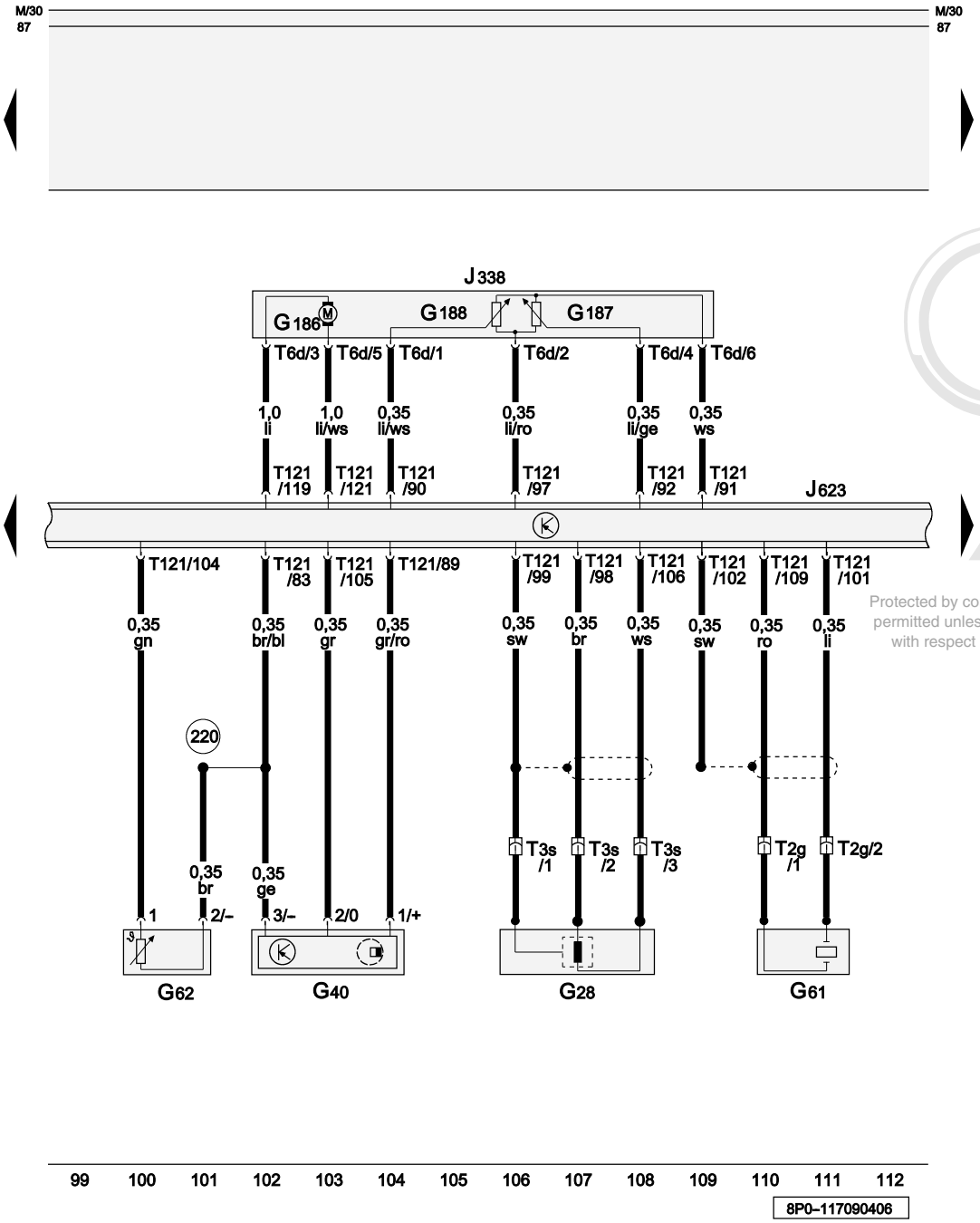
Accelerator position sender, active charcoal filter system solenoid valve 1, variable intake manifold change-over valve

G42	Intake air temperature sender
G71	Intake manifold pressure sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
SB24	Fuse 24 on fuse holder B
T6k	6-pin connector, black, near accelerator position sender
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
B321	Positive connection 7 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness

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or	=	orange
rs	=	pink

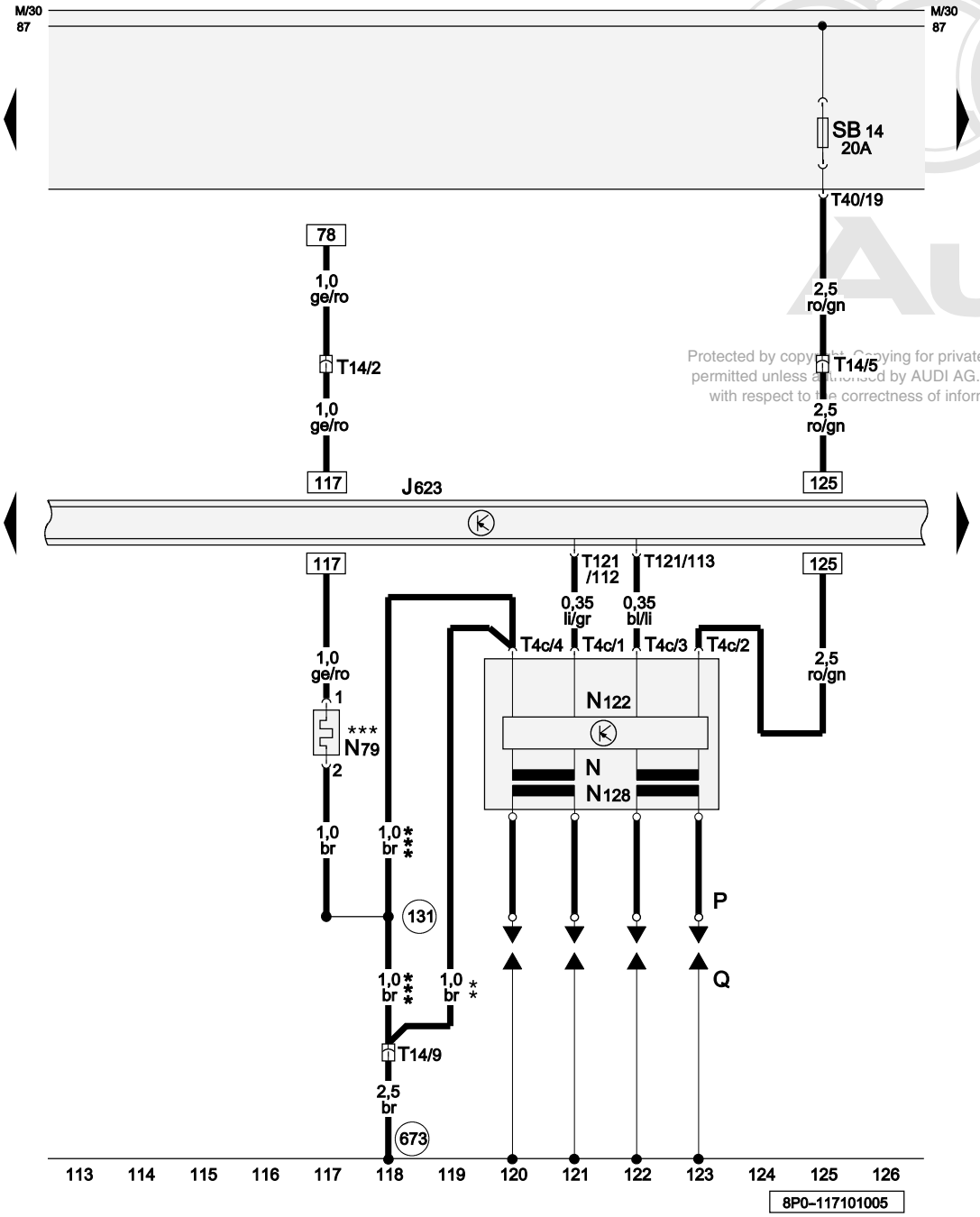


Engine speed sender, Hall sender, knock sensor 1, coolant temperature sender, throttle valve module

G28	Engine speed sender
G40	Hall sender
G61	Knock sensor 1
G62	Coolant temperature sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J623	Engine control unit
T2g	2-pin connector, black, in left engine compartment (knock sensor)
T3s	3-pin connector
T6d	6-pin connector, black, near throttle valve module
T121	121-pin connector, black, on engine control unit
(220)	Earth connection (sender earth), in engine wiring harness

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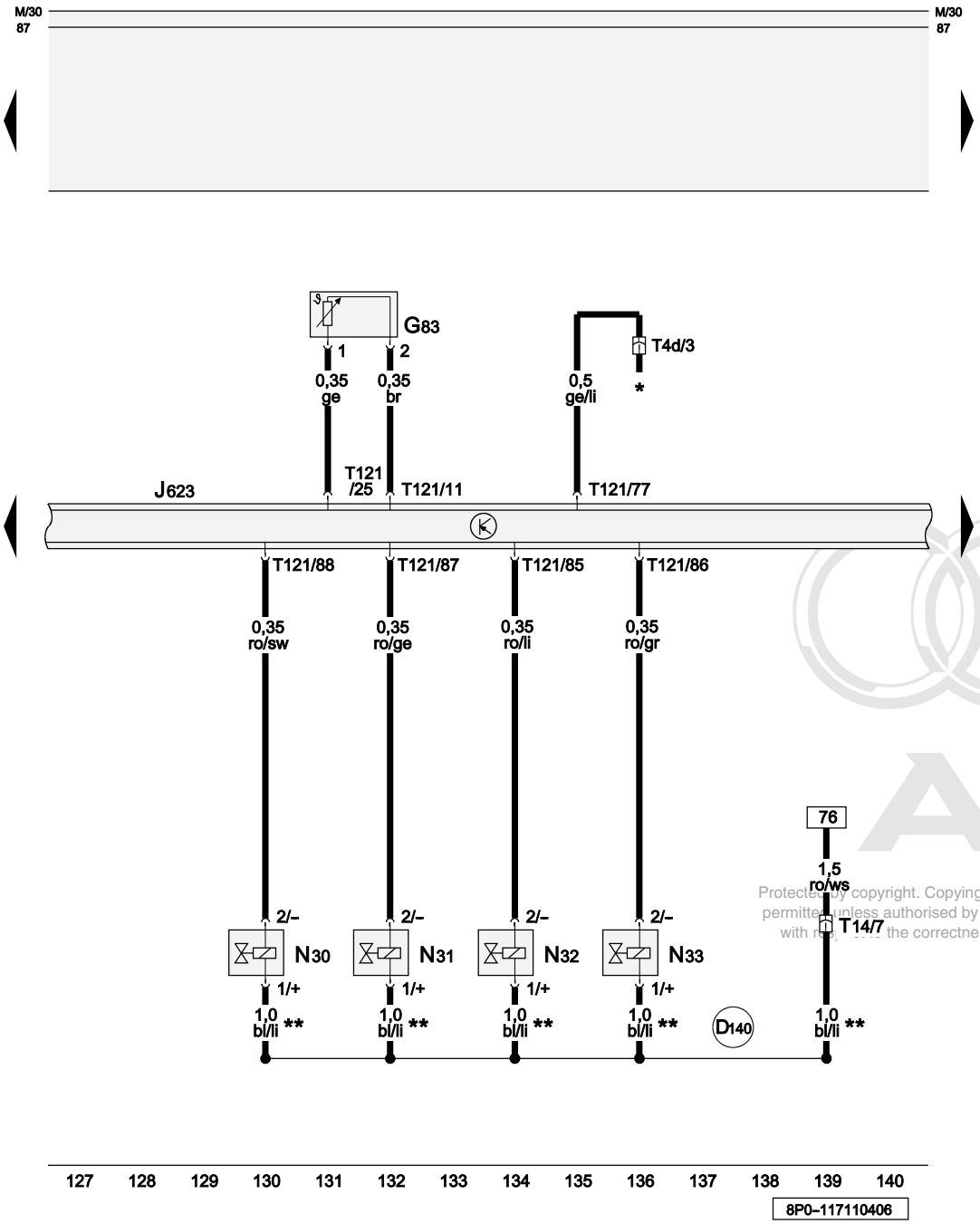


Ignition coils with output stage, heater element for crankcase breather

J623	Engine control unit
N	Ignition coil 1 with output stage
N79	Heater element for crankcase breather
N122	Output stage
N128	Ignition coil 2
P	Spark plug connector
Q	Spark plugs
SB14	Fuse 14 on fuse holder B
T4c	4-pin connector, black, on the output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
131	Earth connection 2, in engine compartment wiring harness
673	Earth point 3, on front of left longitudinal member
**	for models without heater element only
***	for models with heater element only

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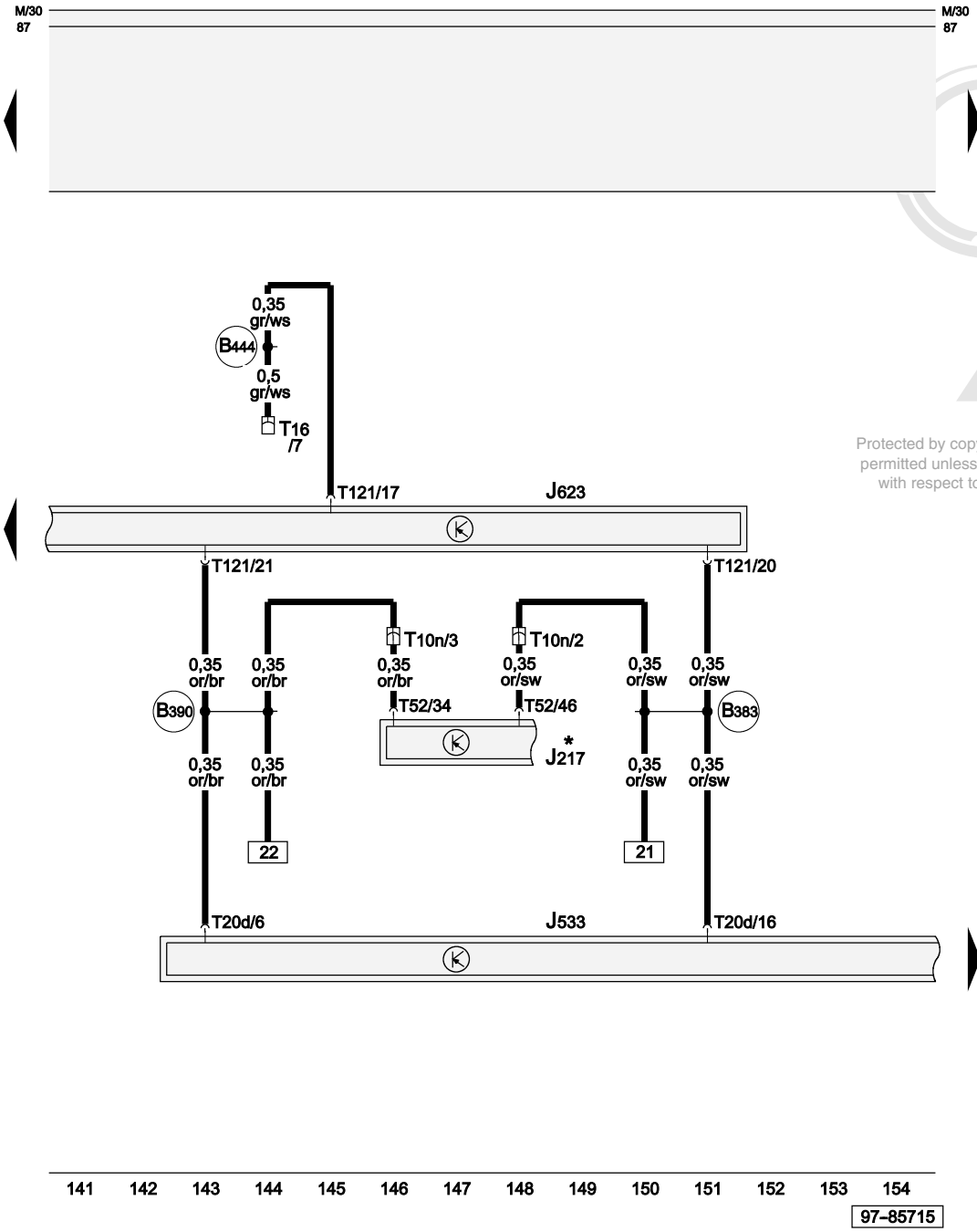


Radiator outlet coolant temperature sender, injectors

G83	Radiator outlet coolant temperature sender
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T121	121-pin connector, black, on engine control unit
D140	Connection (injectors), in engine wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan
**	cable colour was modified from red/ white to blue/ purple, phased-in modification

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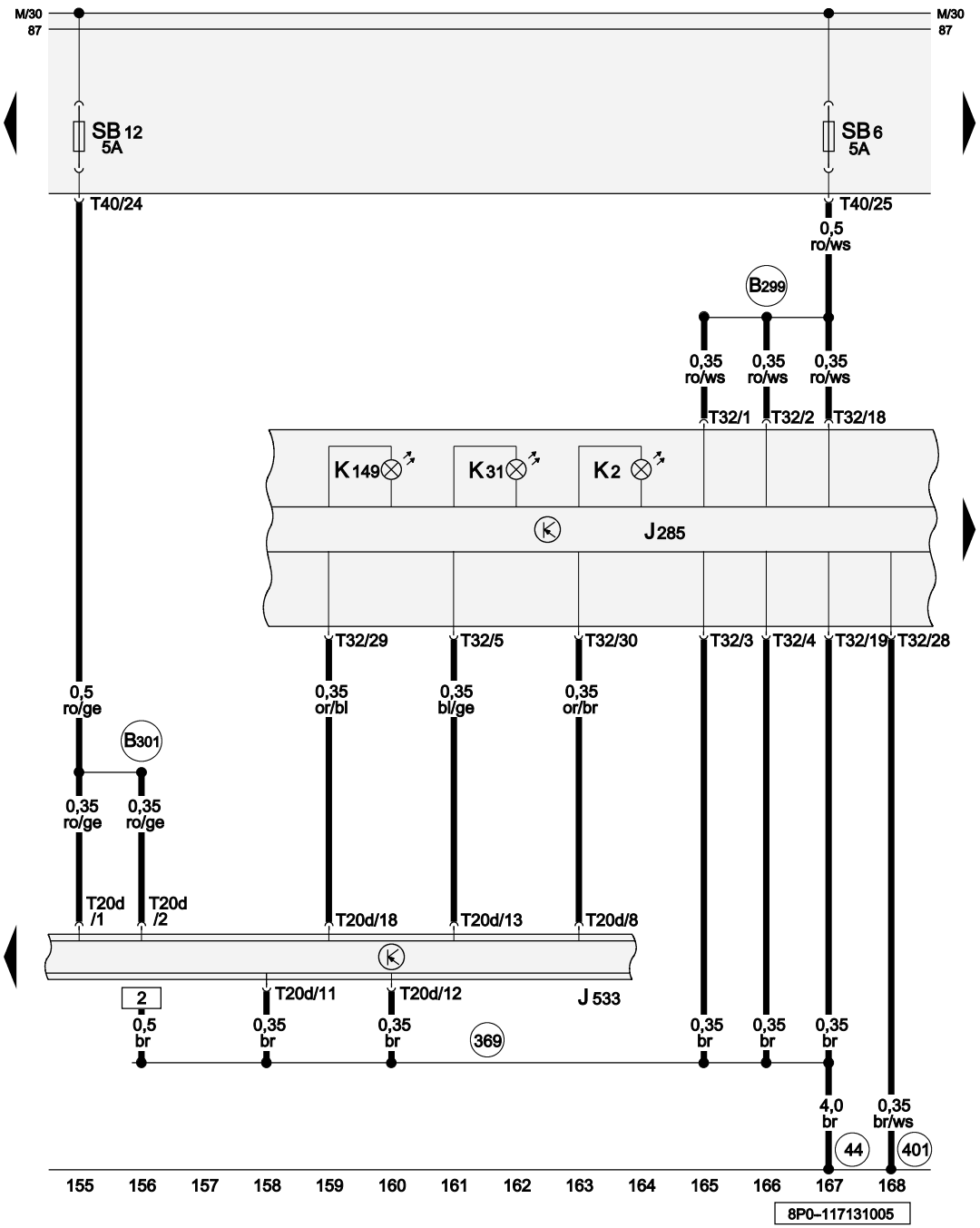


Drive train CAN bus, diagnosis

J217	Automatic gearbox control unit
J533	Data bus diagnostic interface
J623	Engine control unit
T10n	10-pin connector, black, near longitudinal member, front left
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with automatic gearbox (09G) only

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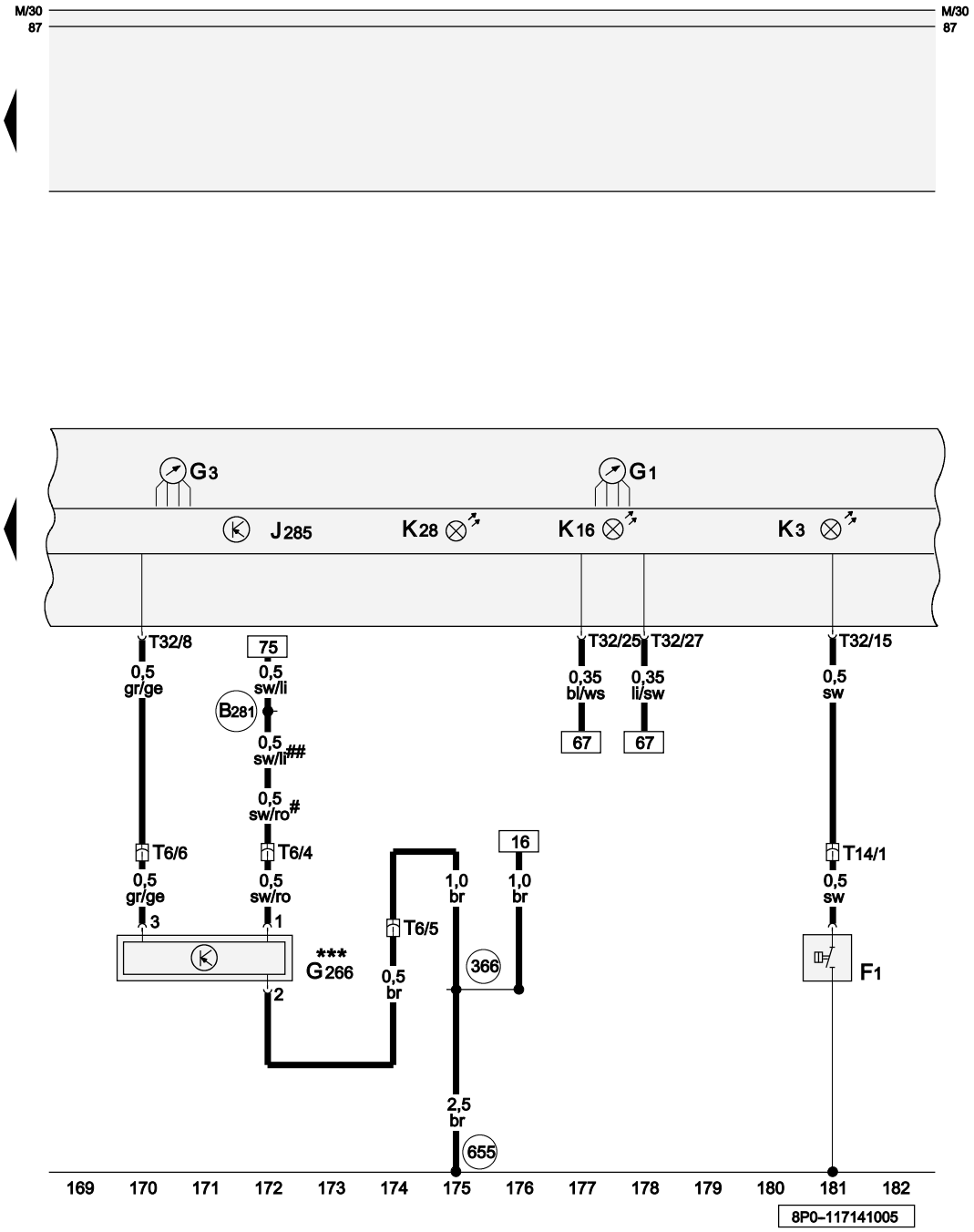


Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB6	Fuse 6 on fuse holder B
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B281	Positive connection 5 (15a), in main wiring harness
***	for models with extended servicing intervals (ESI) only
#	No longer fitted, phased-in modification
##	phased-in modification

ws	=	white
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1.6 l - Fuel injection engine (85 kW - FSI - 4 cylinder), engine code BLF

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

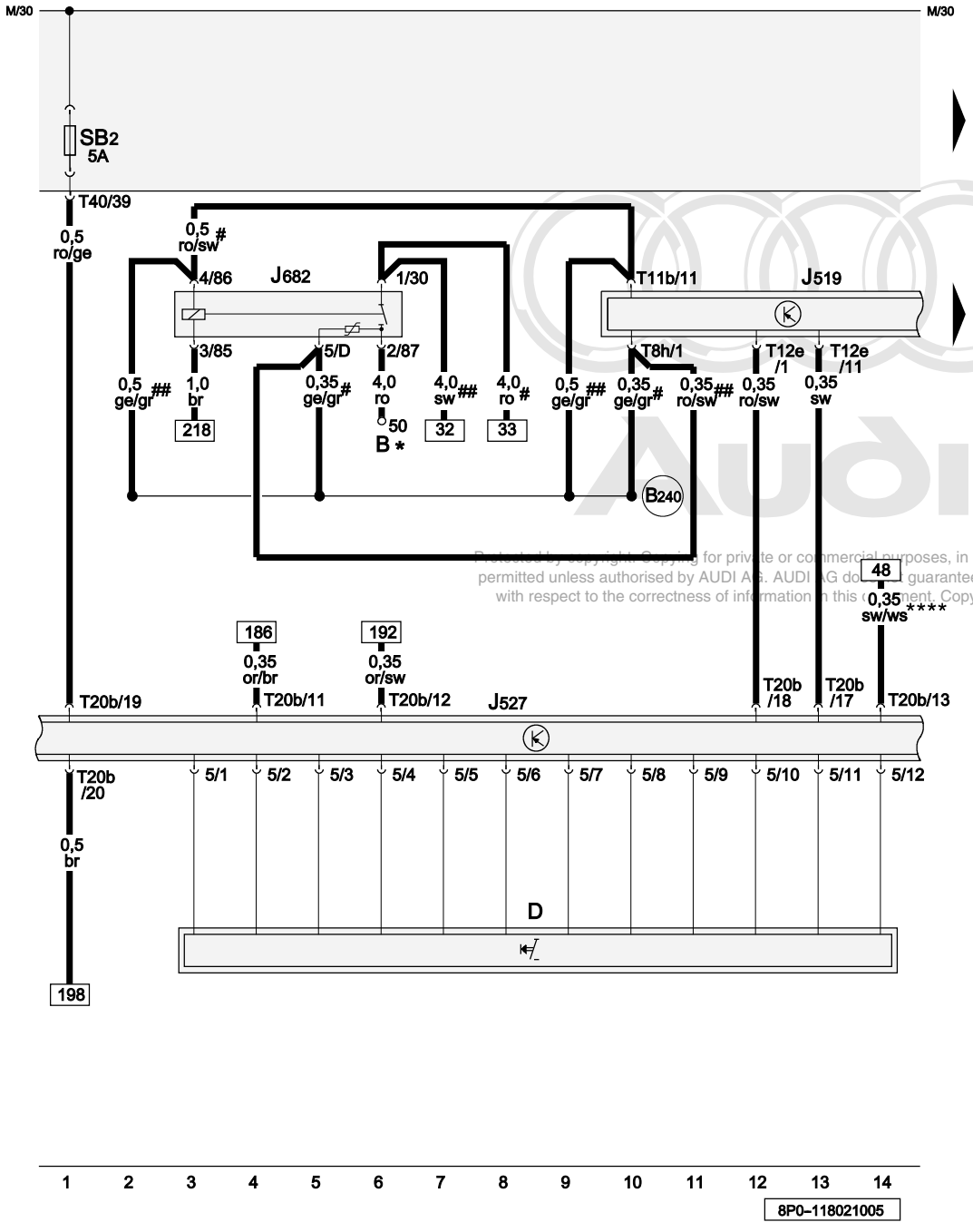
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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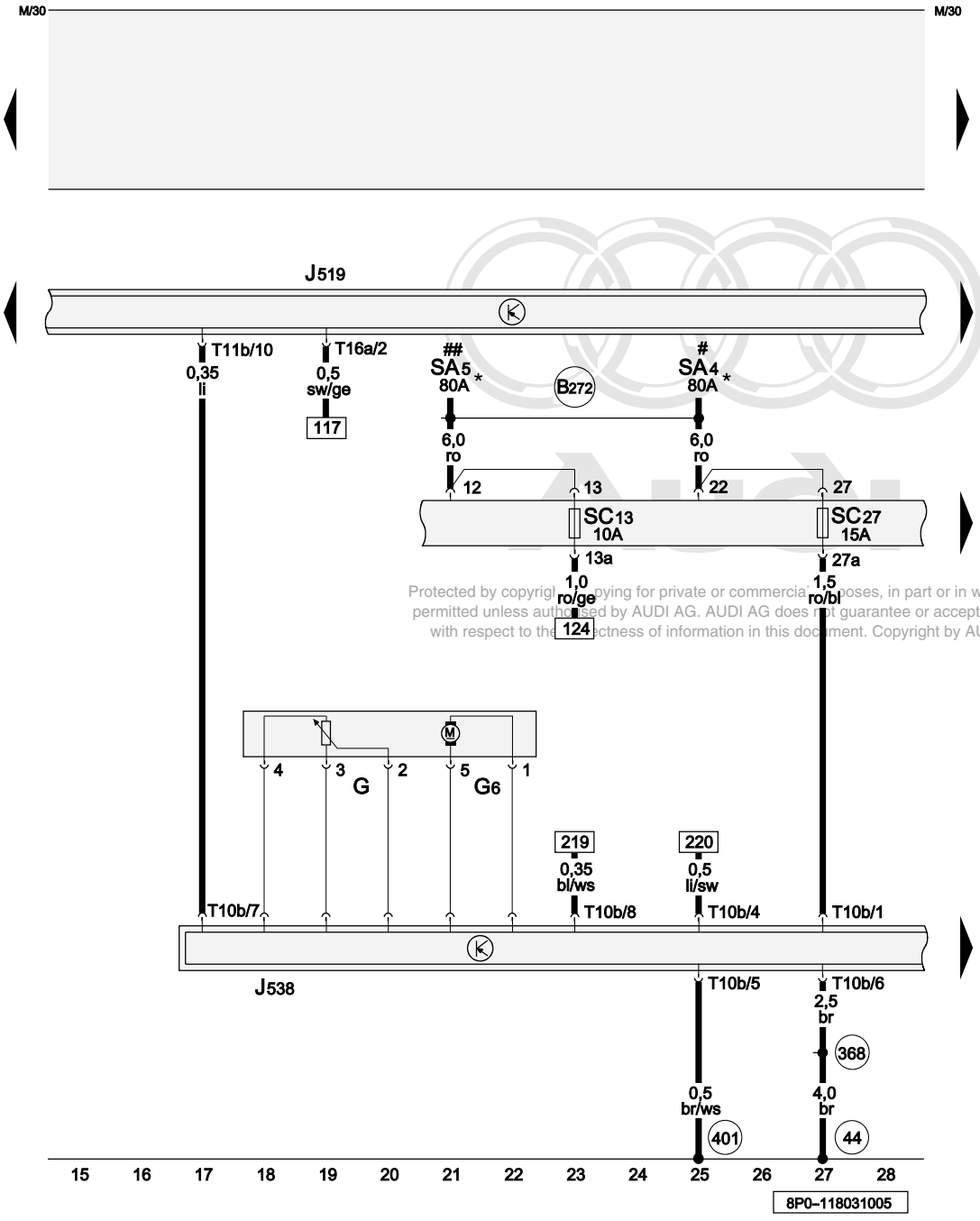


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li = purple
ge = yellow
or = orange
rs = pink

Terminal 50 voltage supply relay, ignition/starter switch

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB2	Fuse 2 on fuse holder B
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B240	Positive connection 2 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
****	for models with cruise control system only
#	is dropped from November 2005
##	applicable from November 2005

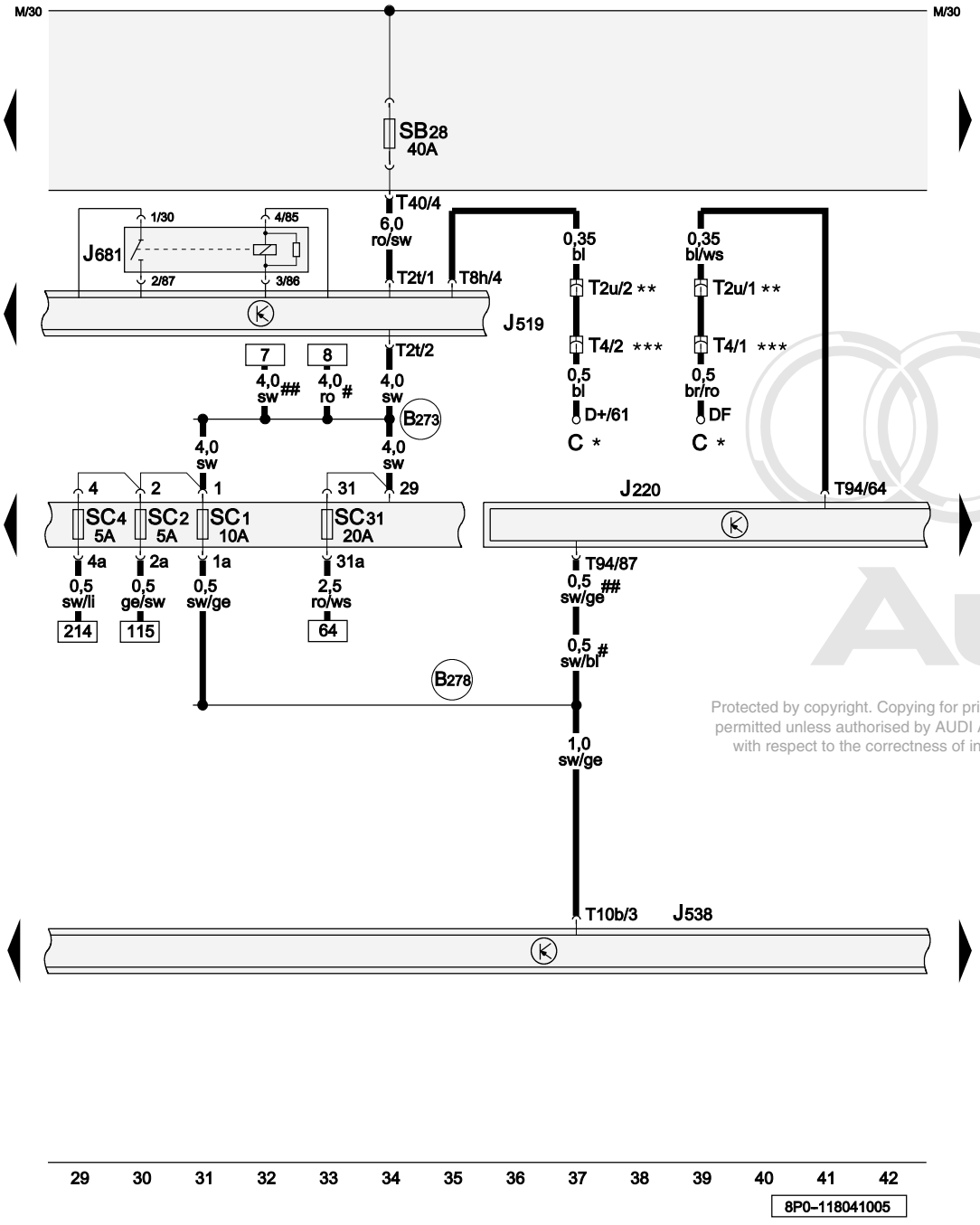


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Fuel gauge sender, fuel system pressurisation pump

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J538	Fuel pump control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC13	Fuse 13 on fuse holder C
SC27	Fuse 27 on fuse holder C
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
#	is dropped from November 2005
##	applicable from November 2005

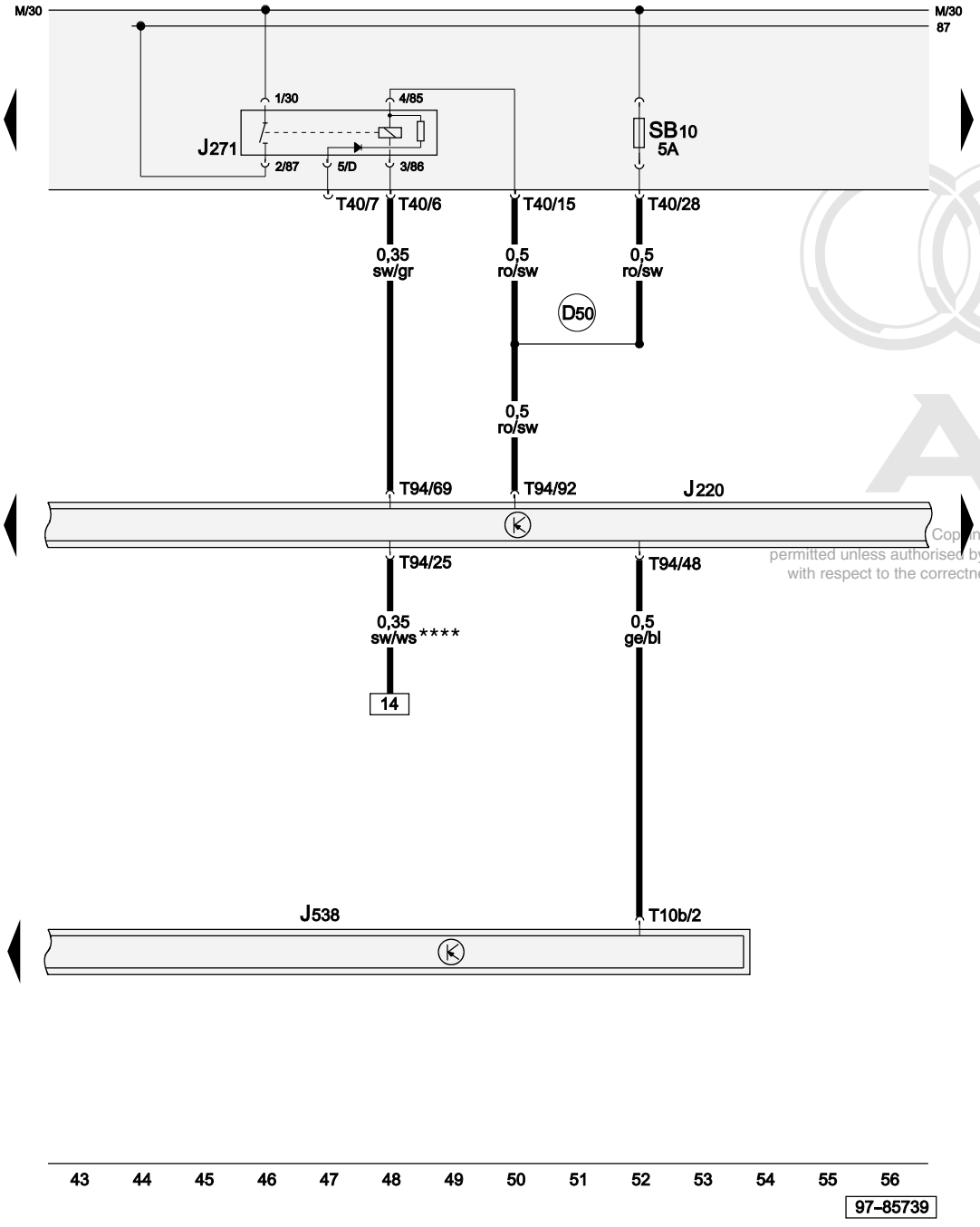


Fuses on fuse holder

C	Alternator
J220	Motronic control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC31	Fuse 31 on fuse holder C
T2t	2-pin connector, black (connector L)
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
#	is dropped from November 2005
##	applicable from November 2005

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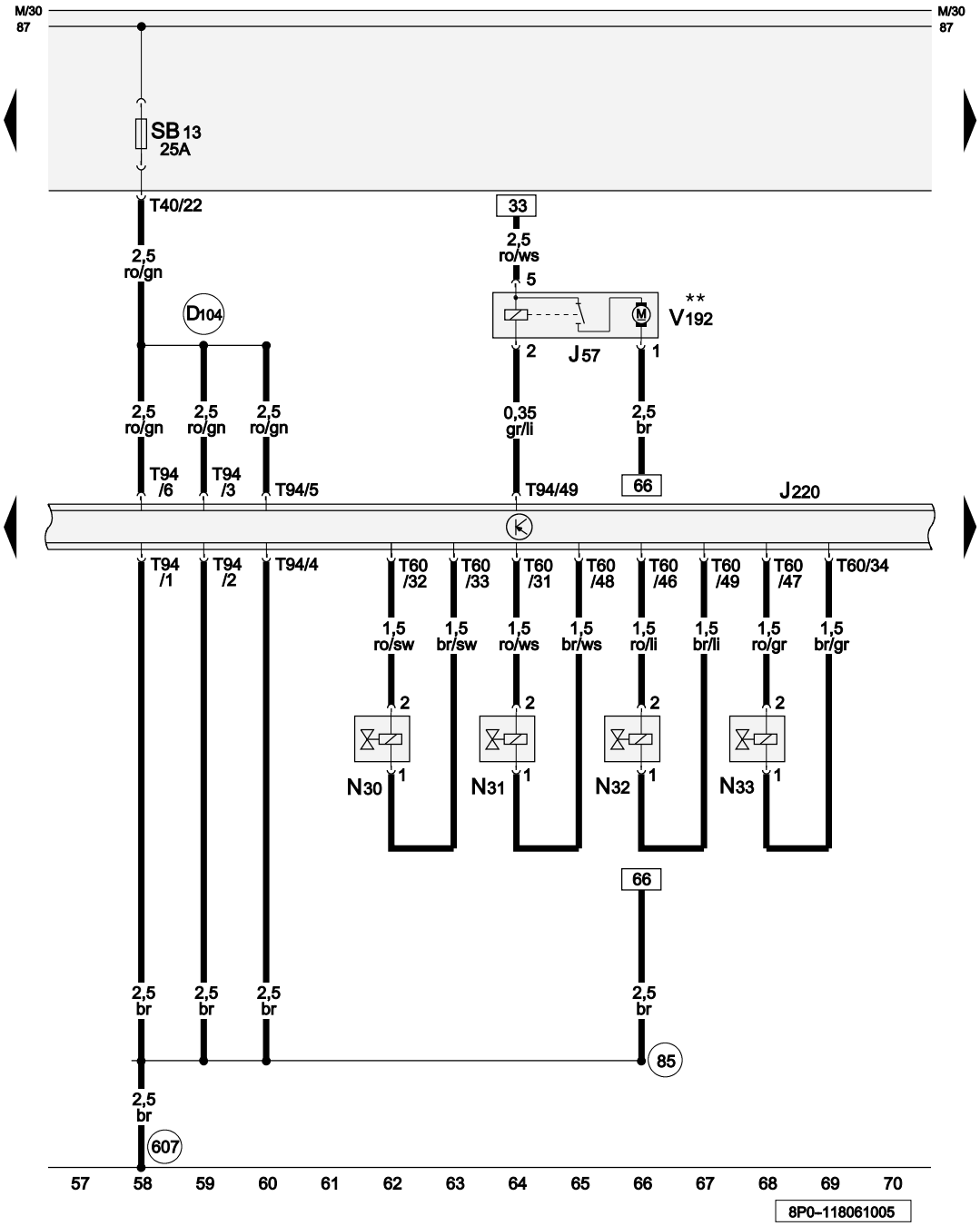


Motronic current supply relay

J220	Motronic control unit
J271	Motronic current supply relay
J538	Fuel pump control unit
SB10	Fuse 10 on fuse holder B
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
D50	Positive connection (30), in engine compartment wiring harness
****	for models with cruise control system only

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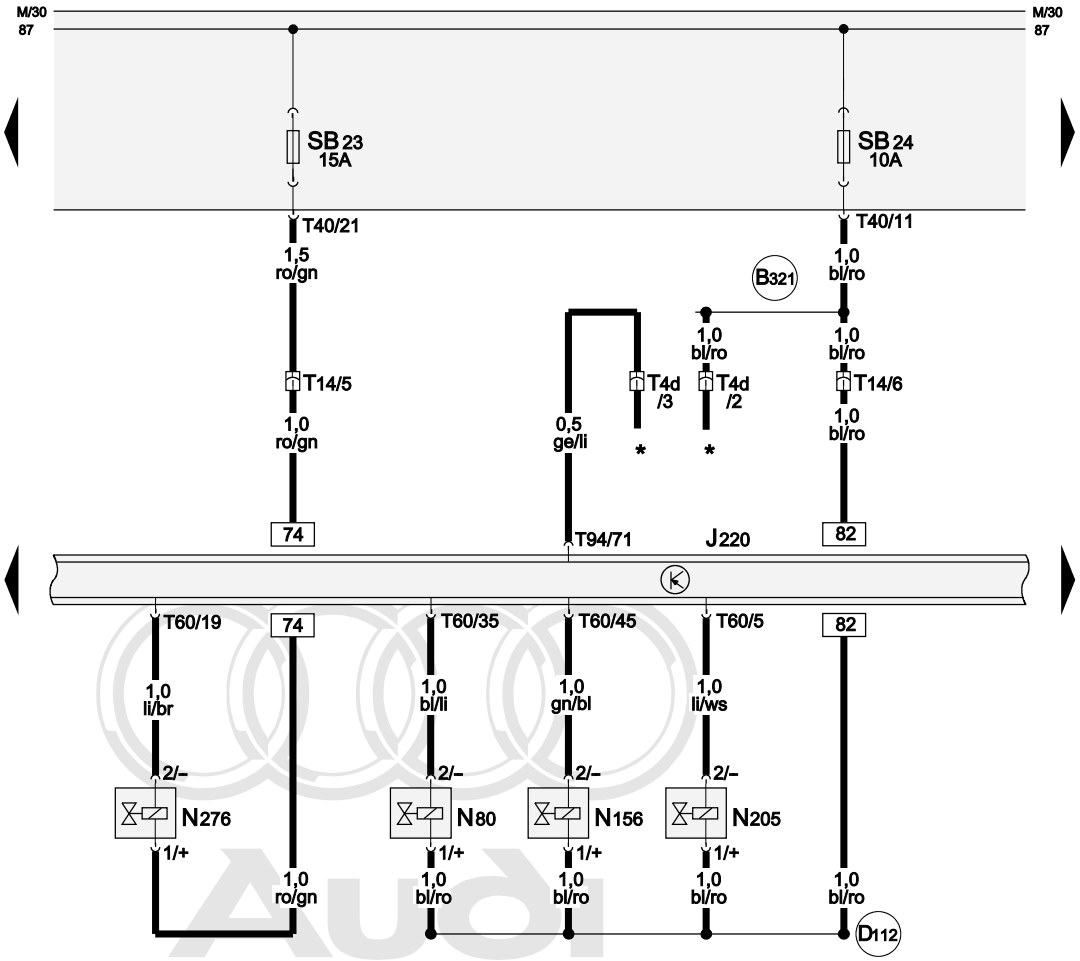


Injectors, vacuum pump for brakes

J57	Vacuum pump relay
J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SB13	Fuse 13 on fuse holder B
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V192	Vacuum pump for brakes
85	Earth connection 1, in engine compartment wiring harness
607	Earth point, on left in plenum chamber
D104	Positive connection 2 (30a), in engine compartment wiring harness
**	for models with automatic gearbox only

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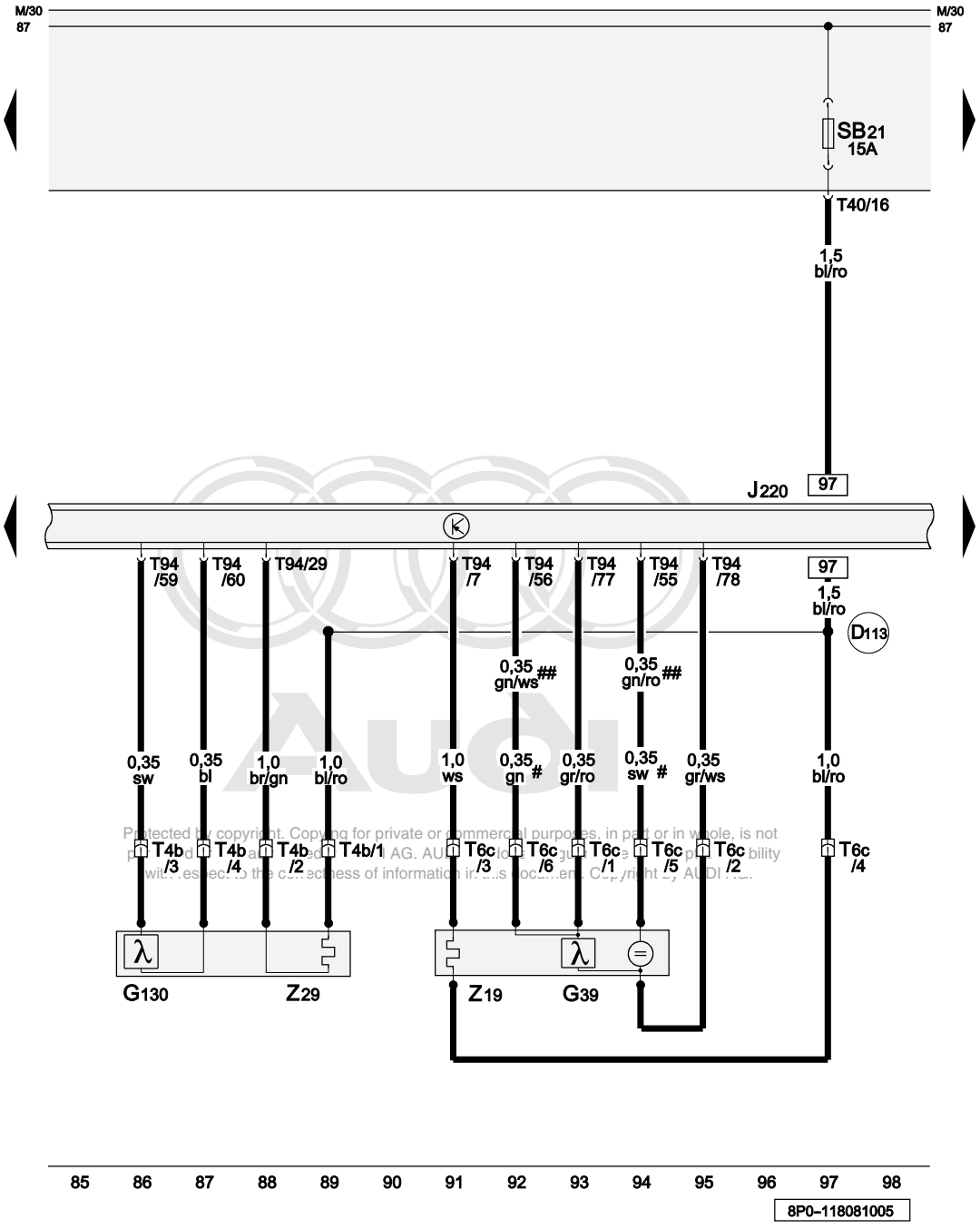


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Solenoid valves

J220	Motronic control unit
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
N276	Fuel pressure regulating valve
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B321	Positive connection 7 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan control

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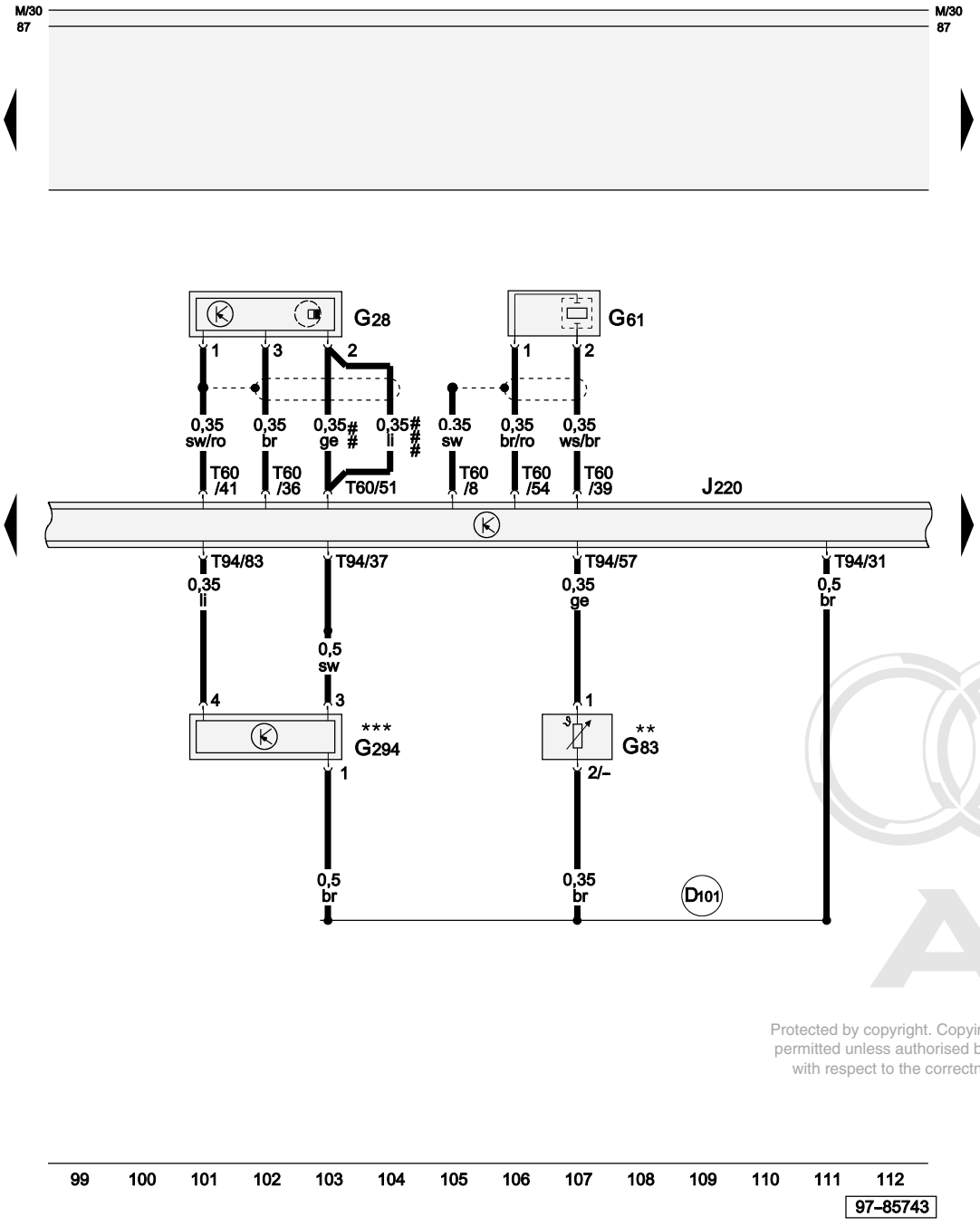


Lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J220	Motronic control unit
SB21	Fuse 21 on fuse holder B
T4b	4-pin connector, black, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D113	Connection 11, in engine compartment wiring harness
#	No longer fitted, phased-in modification
##	phased-in modification

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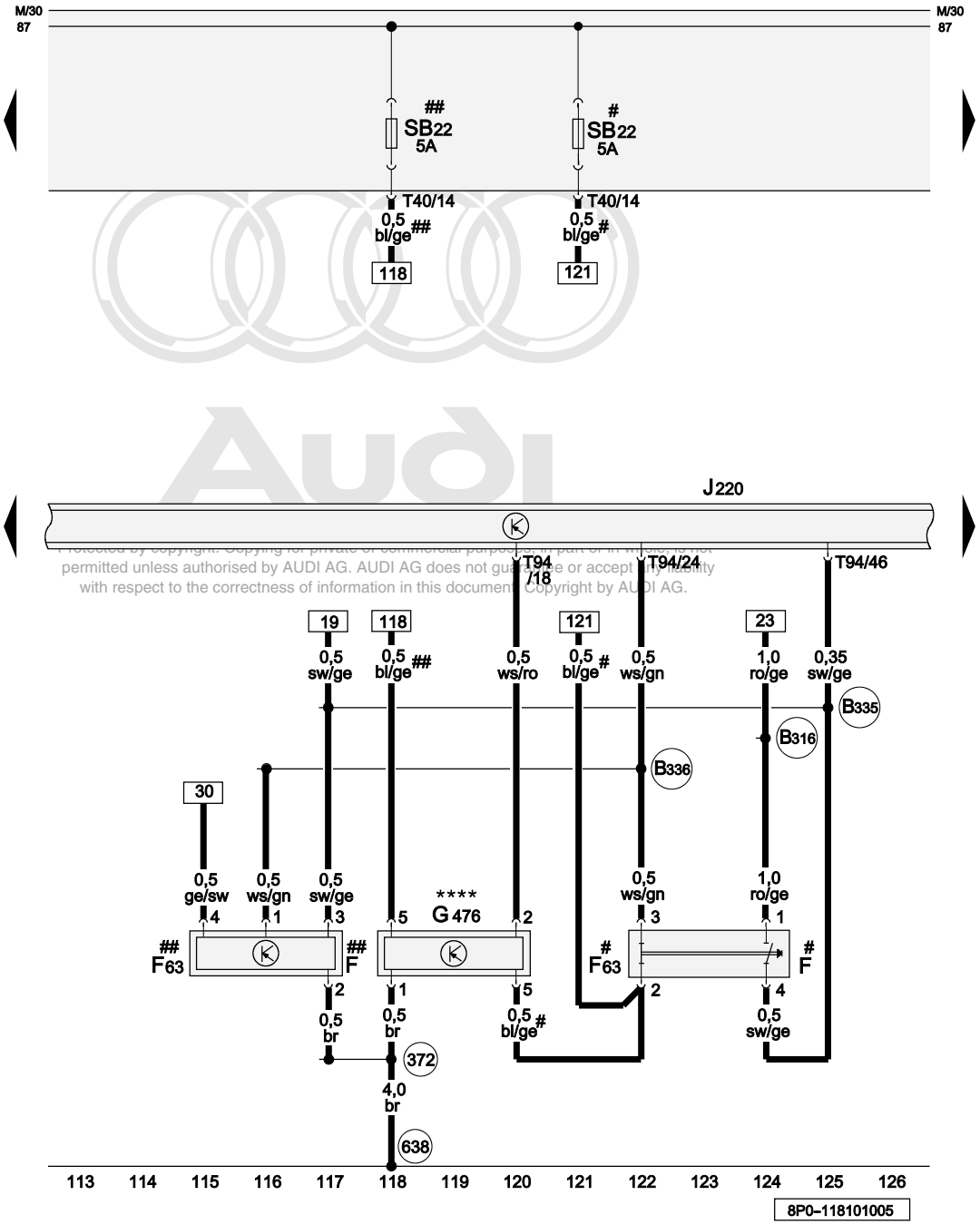


Radiator outlet coolant temperature sender, brake servo pressure sensor

G28	Engine speed sender
G61	Knock sensor 1
G83	Radiator outlet coolant temperature sender
G294	Brake servo pressure sensor
J220	Motronic control unit
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D101	Connection 1, in engine compartment wiring harness
**	for models with air conditioning system only
***	for models with brake servo pressure sensor only
##	for models with manual gearbox only
###	for models with automatic gearbox only

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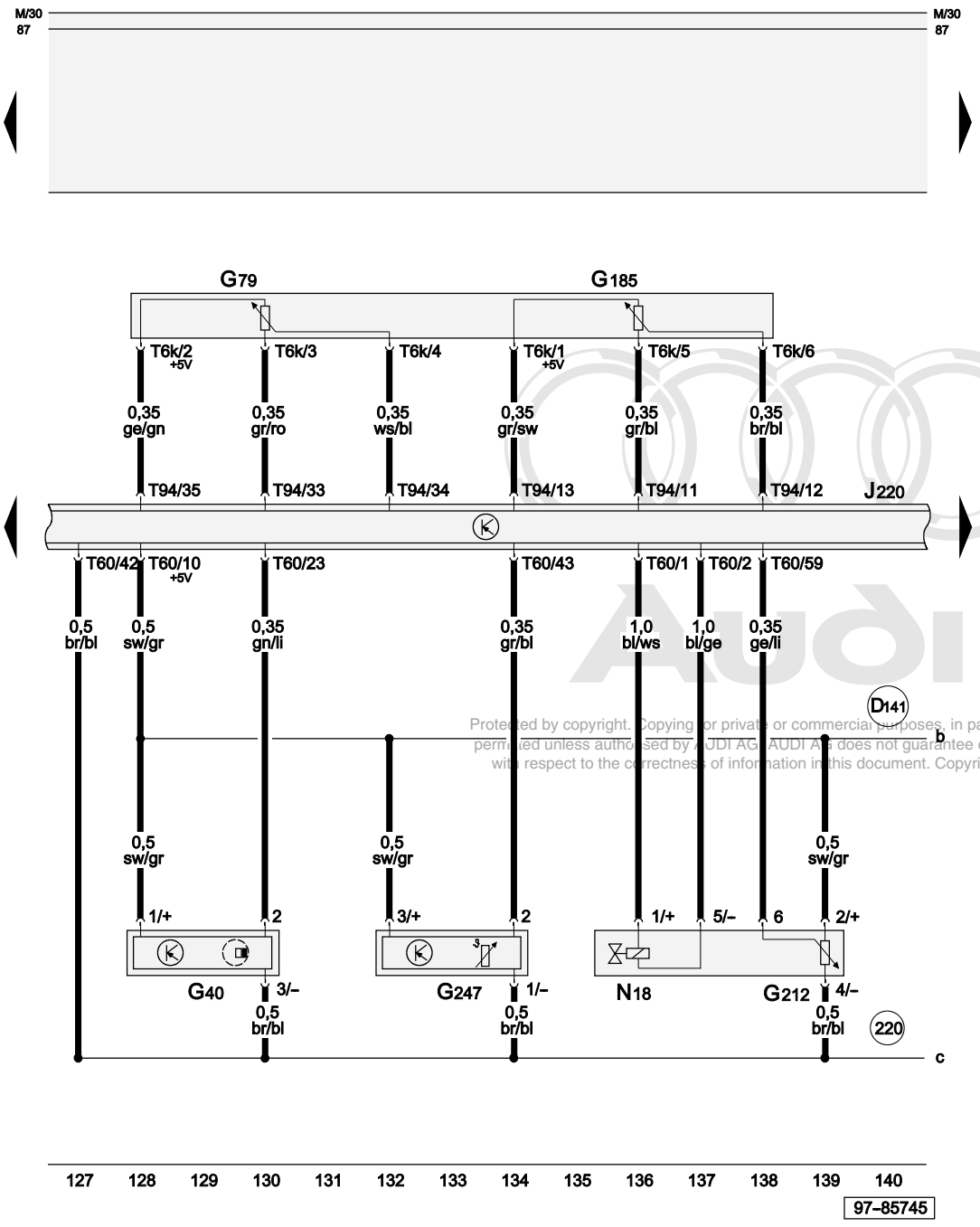


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Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
SB22	Fuse 22 on fuse holder B
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
B336	Connection 2 (54), in main wiring harness
****	for models with manual gearbox only
#	is dropped from November 2005
##	applicable from November 2005

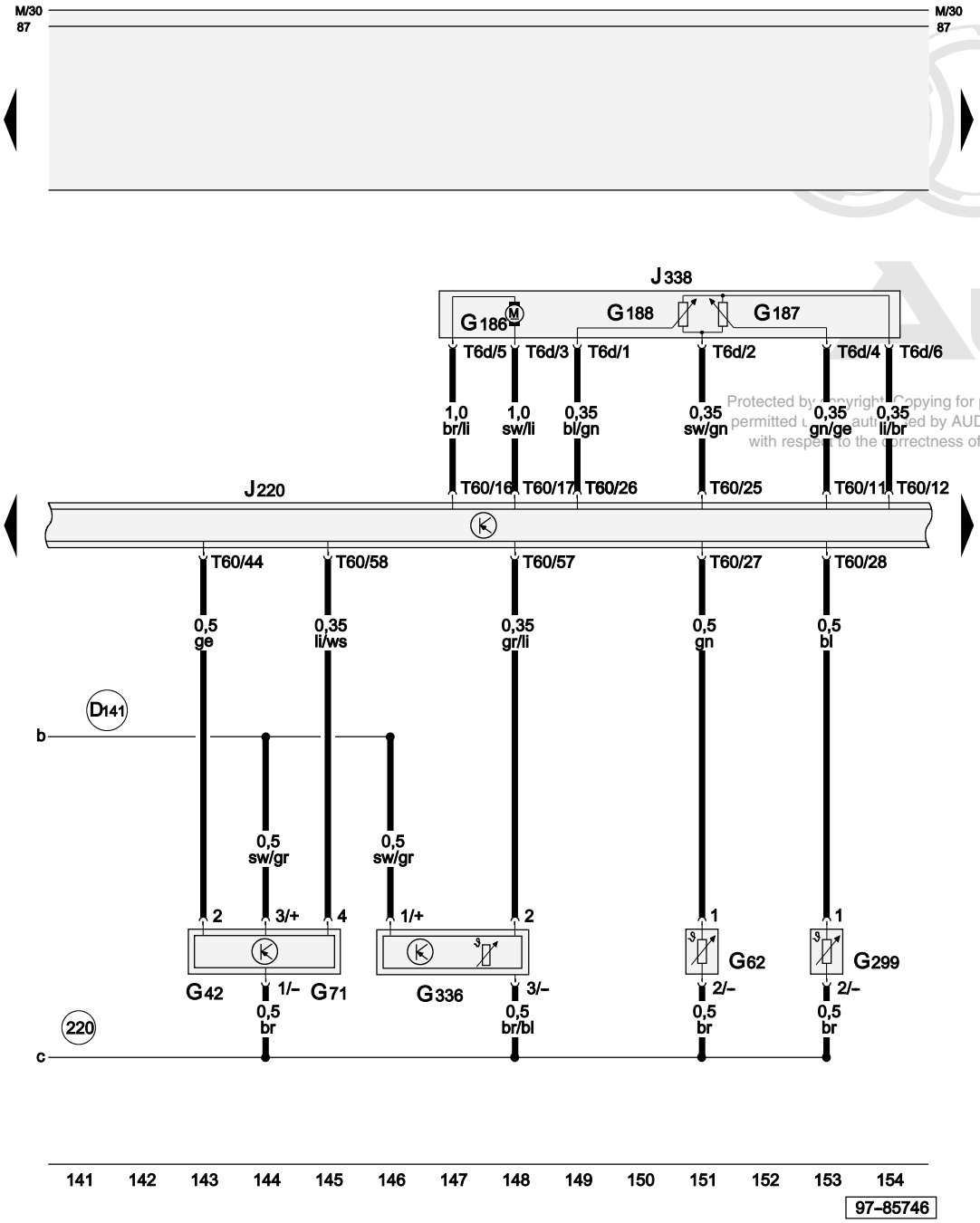


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Hall sender, accelerator position sender, fuel pressure sender

G40	Hall sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
J220	Motronic control unit
N18	Exhaust gas recirculation valve
T6k	6-pin connector, black, near accelerator position sender
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

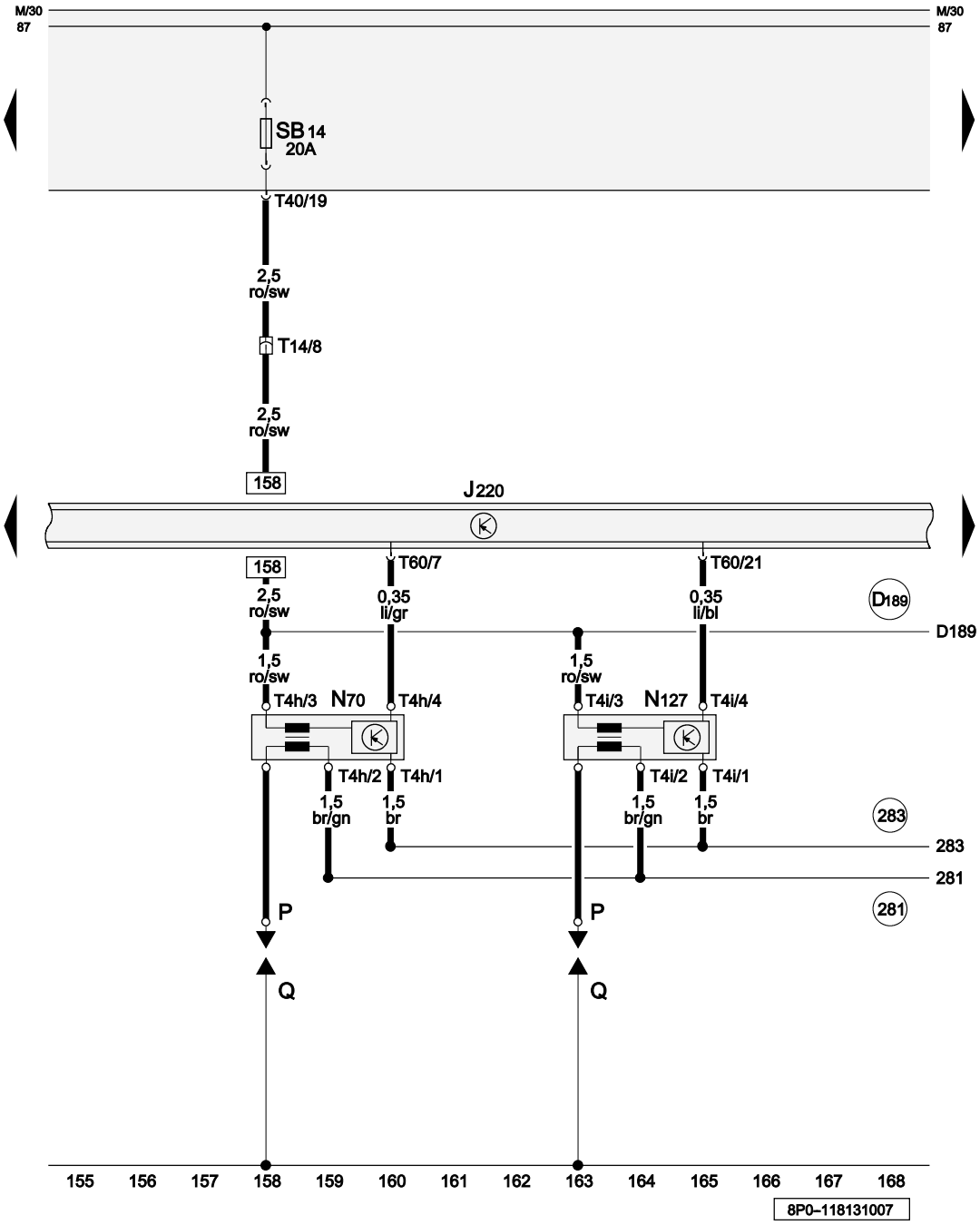


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Intake air temperature sender, coolant temperature sender, intake manifold pressure sender

G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G299	Intake air temperature sender 2
G336	Intake manifold flap potentiometer
J220	Motronic control unit
J338	Throttle valve module
T6d	6-pin connector, black, near throttle valve module
T60	60-pin connector, black (connector A)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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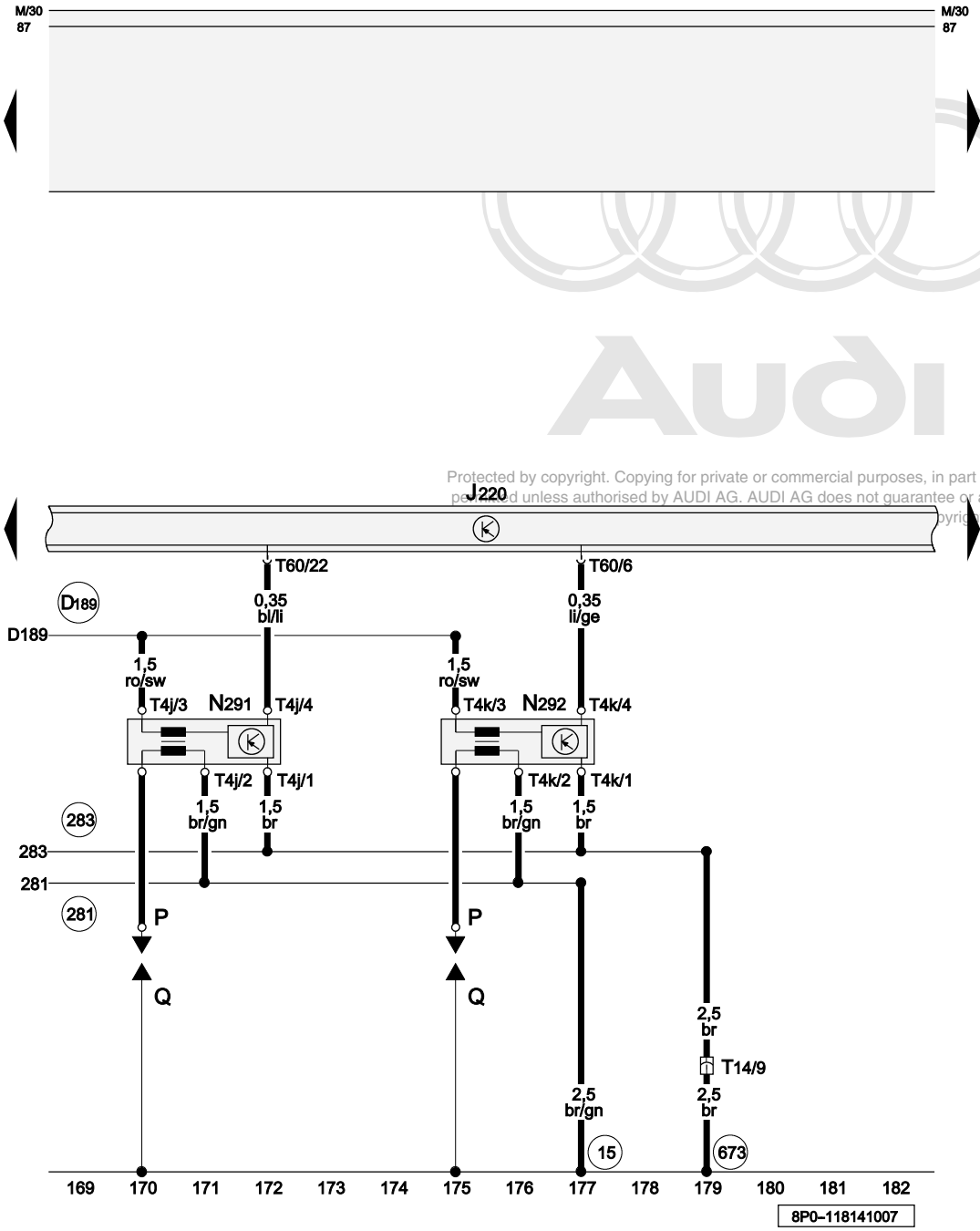


Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
P	Spark plug connector
Q	Spark plugs
SB14	Fuse 14 on fuse holder B
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
D189	Connection (87a), in engine wiring harness

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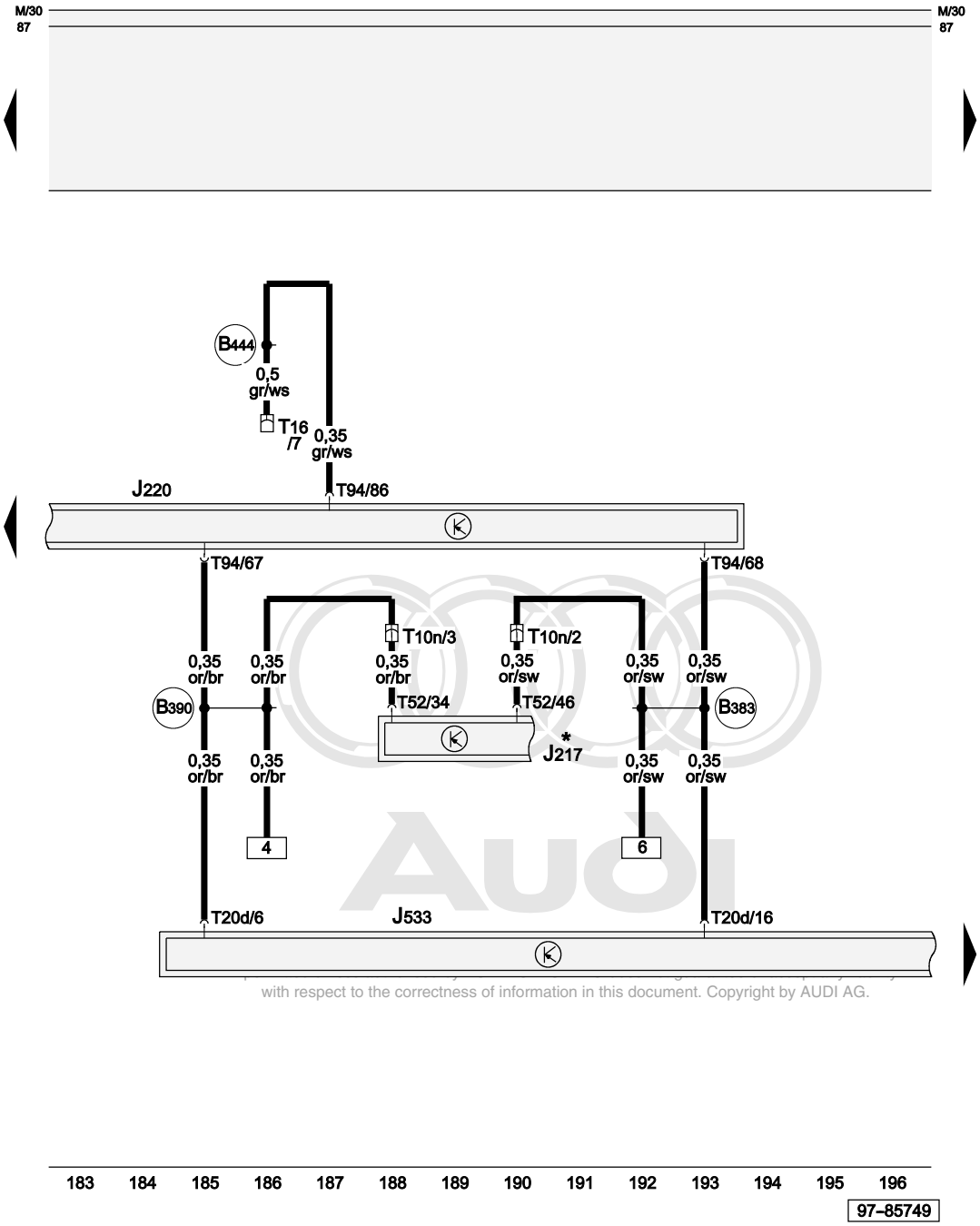


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Ignition coils 3 and 4 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4j	4-pin connector, black, on ignition coil 3 with output stage
T4k	4-pin connector, black, on ignition coil 4 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
15	Earth point, on cylinder head
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
673	Earth point 3, on front of left longitudinal member
D189	Connection (87a), in engine wiring harness

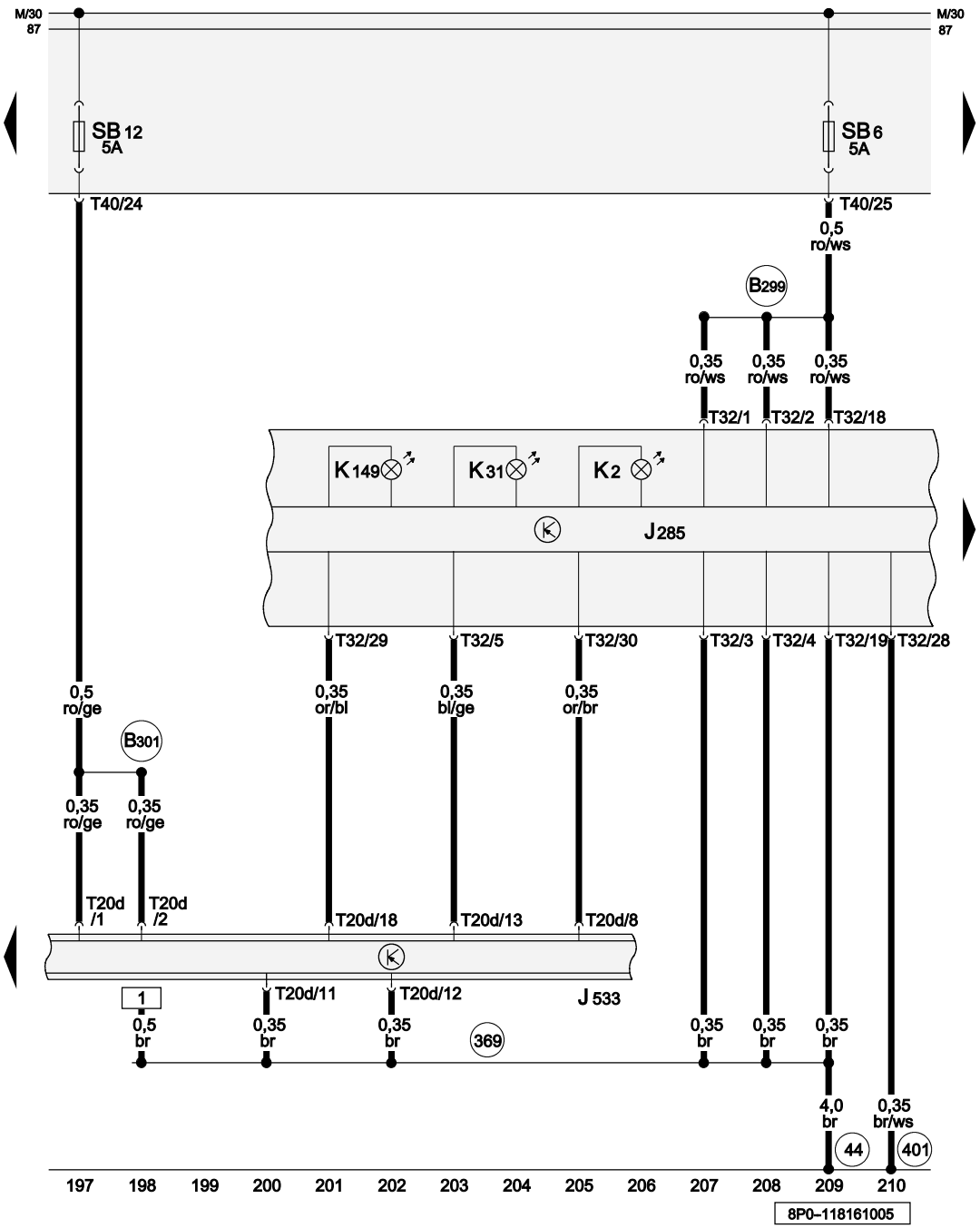


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Drive train CAN bus, diagnosis

J217	Automatic gearbox control unit
J220	Motronic control unit
J533	Data bus diagnostic interface
T10n	10-pin connector, black, near longitudinal member, front left
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with automatic gearbox (09G) only

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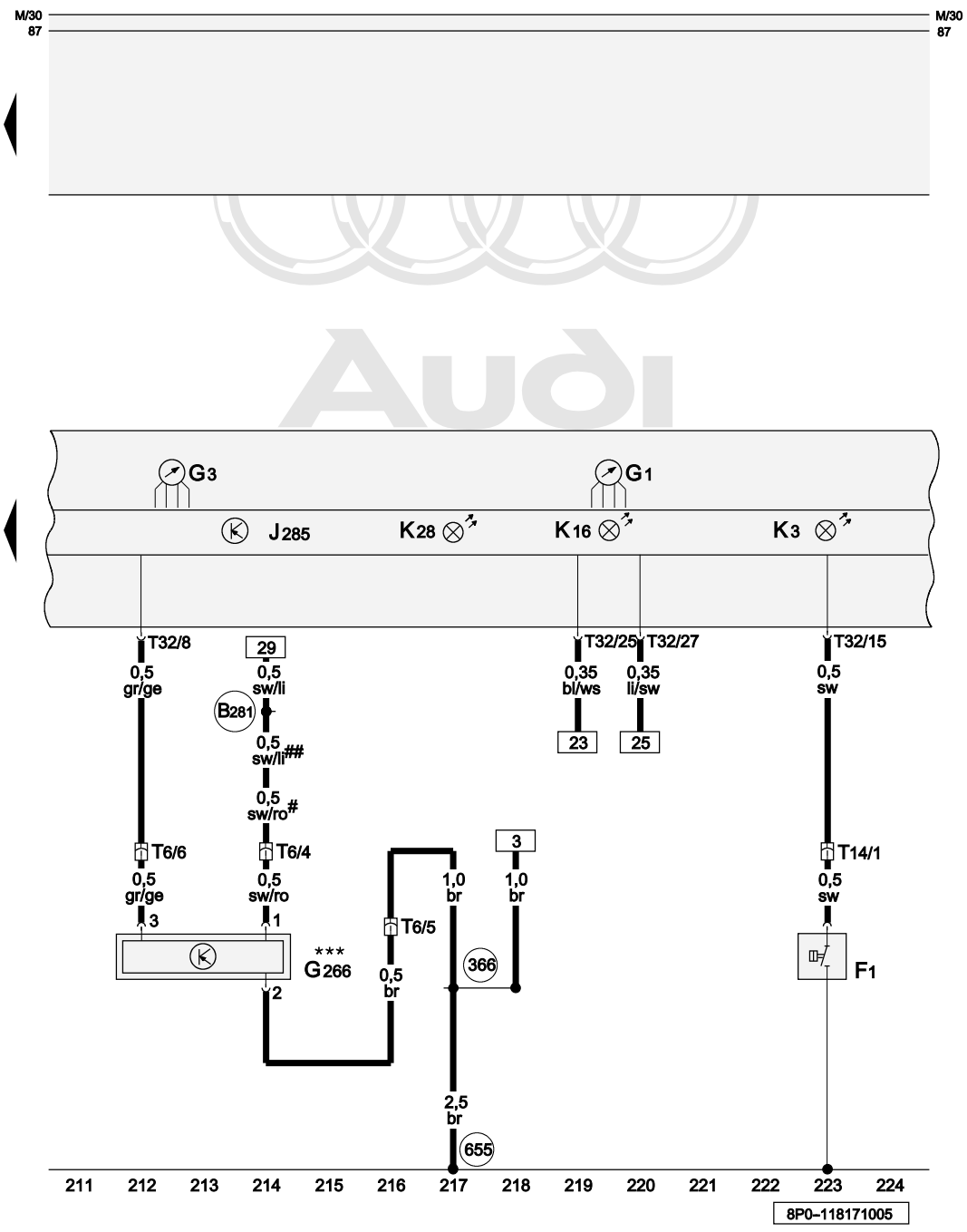


Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB6	Fuse 6 on fuse holder B
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B281	Positive connection 5 (15a), in main wiring harness
***	for models with extended servicing intervals (ESI) only
#	No longer fitted, phased-in modification
##	phased-in modification

2.0 l - Fuel injection engine (110 kW - FSI - 4 cylinder), engine code BLY

from model year 2006

2.0 l - Fuel injection engine (110 kW - FSI - 4 cylinder), engine code BVZ

from November 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

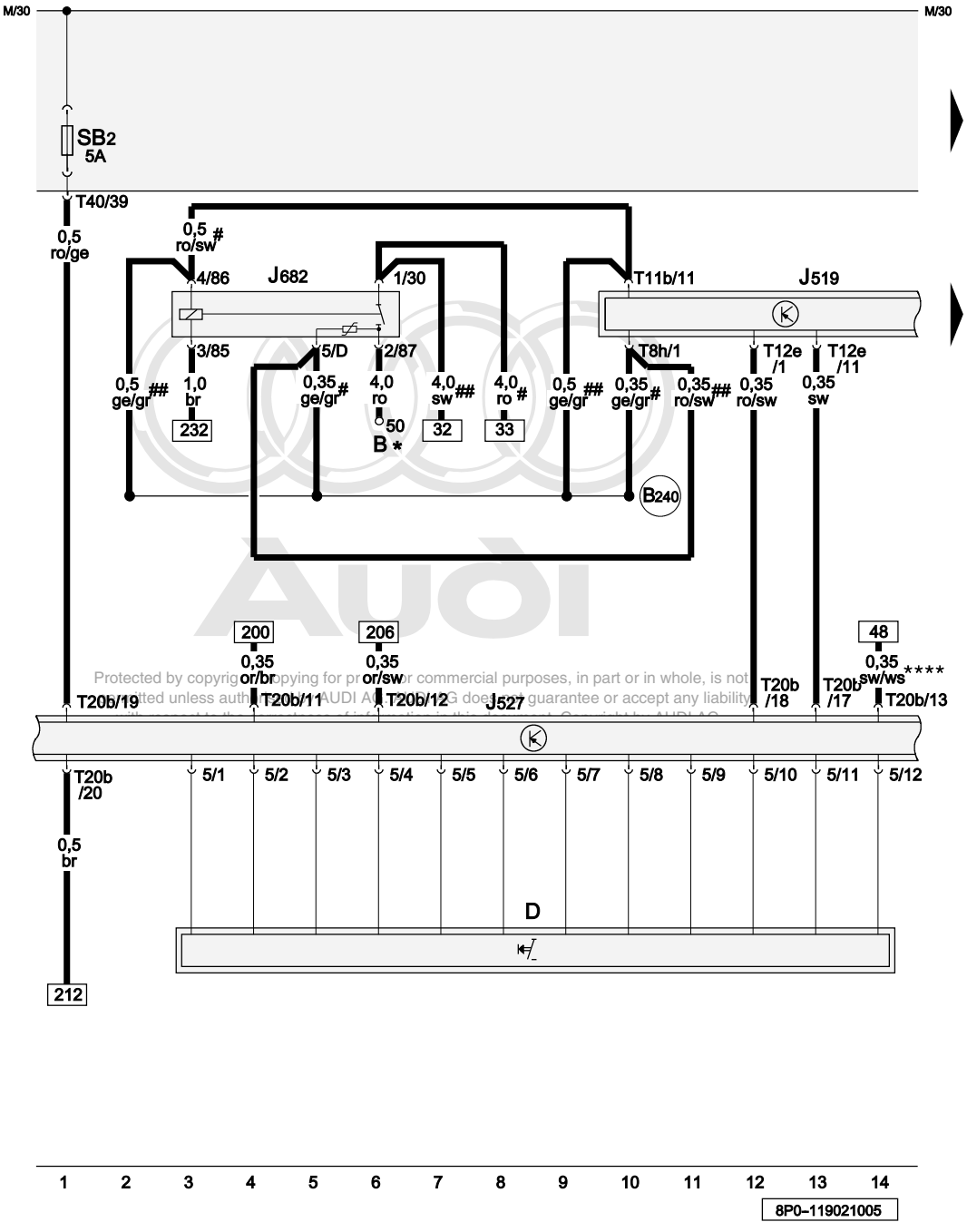
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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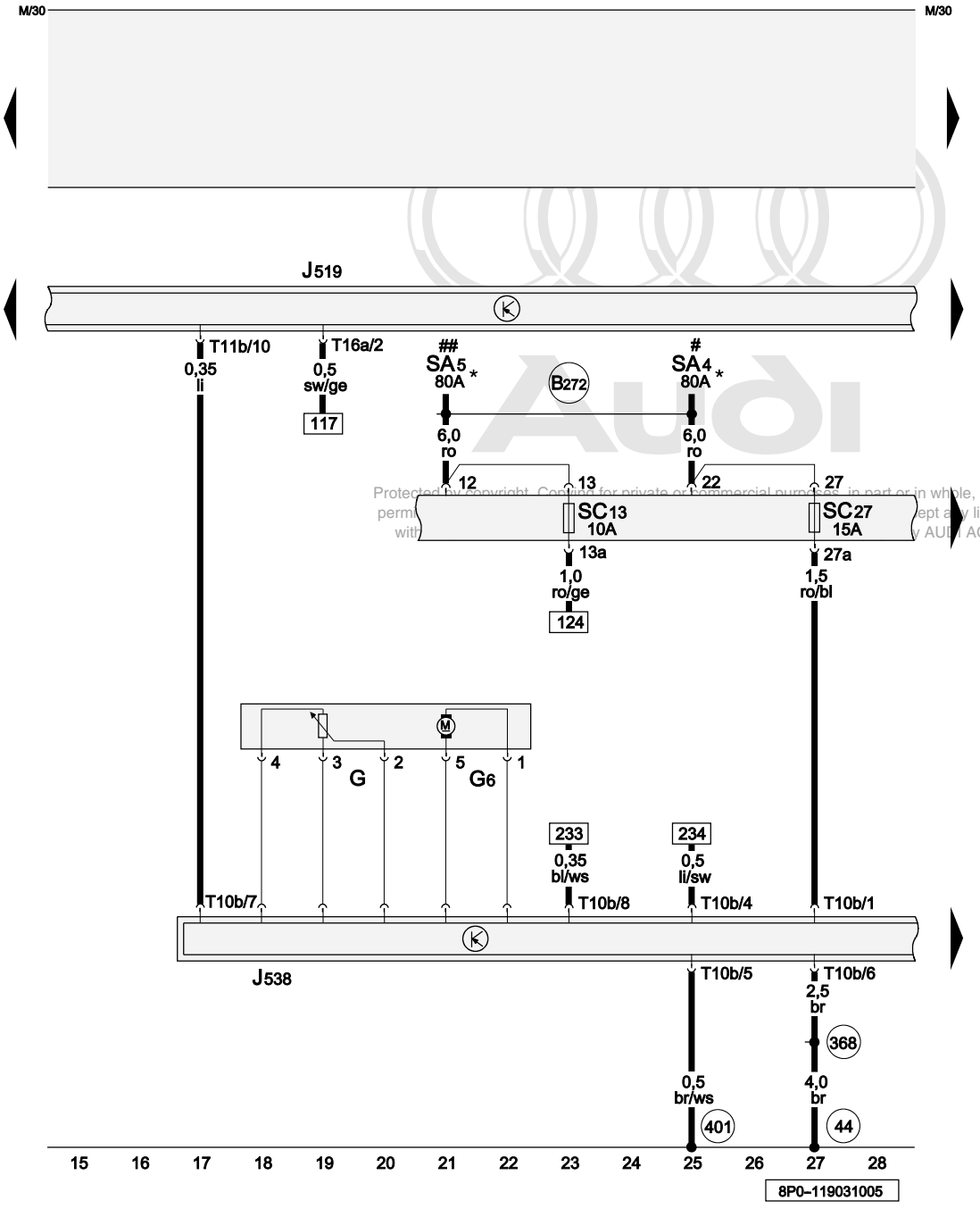


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Terminal 50 voltage supply relay, ignition/starter switch

B	Starter
D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
SB2	Fuse 2 on fuse holder B
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B240	Positive connection 2 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
****	for models with cruise control system only
#	is dropped from November 2005
##	applicable from November 2005

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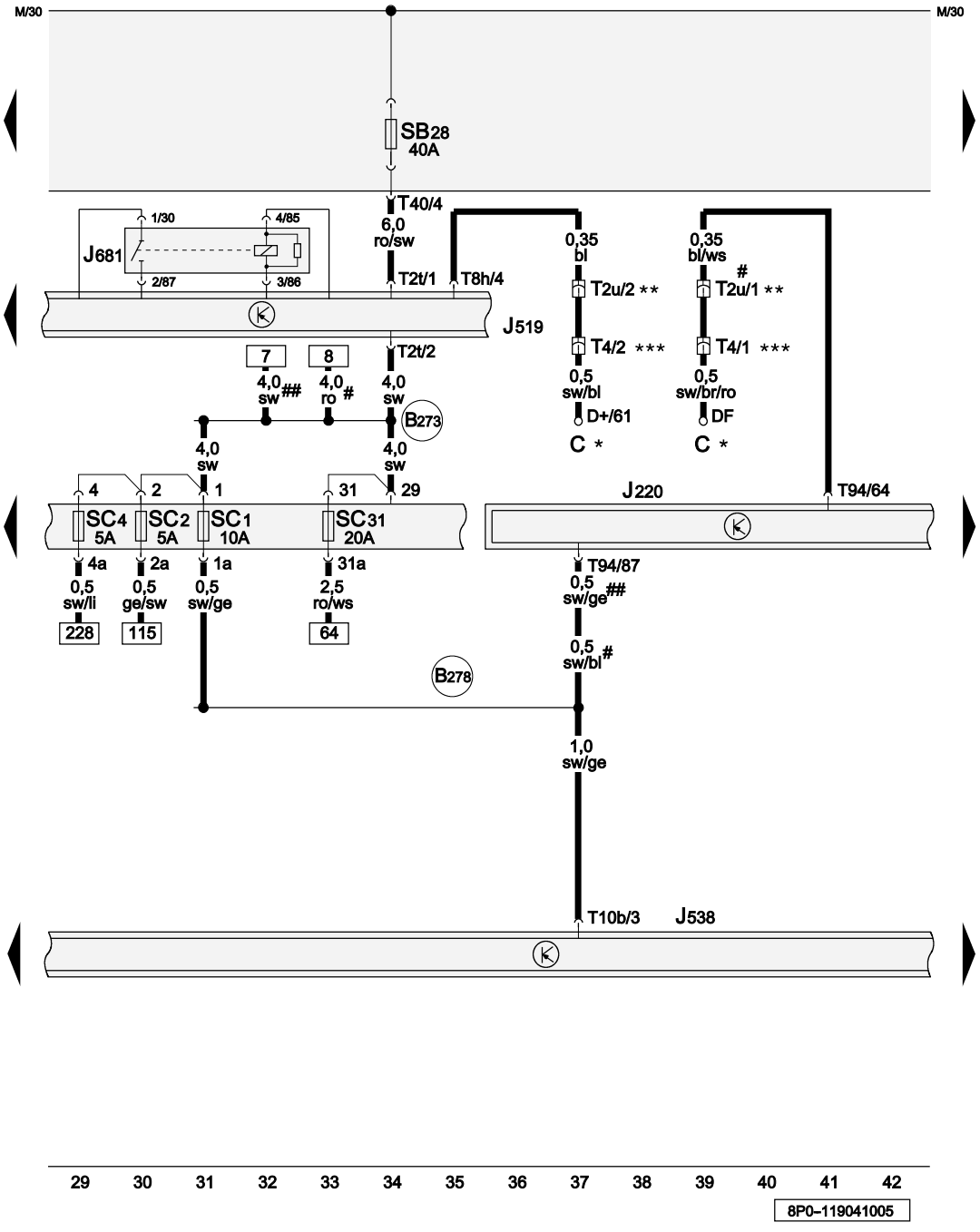


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Fuel gauge sender, fuel system pressurisation pump, fuses on fuse holder

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J538	Fuel pump control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC13	Fuse 13 on fuse holder C
SC27	Fuse 27 on fuse holder C
T10b	10-pin connector, black (connector A)
T11b	11-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B272	Positive connection (30), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
#	is dropped from November 2005
##	applicable from November 2005

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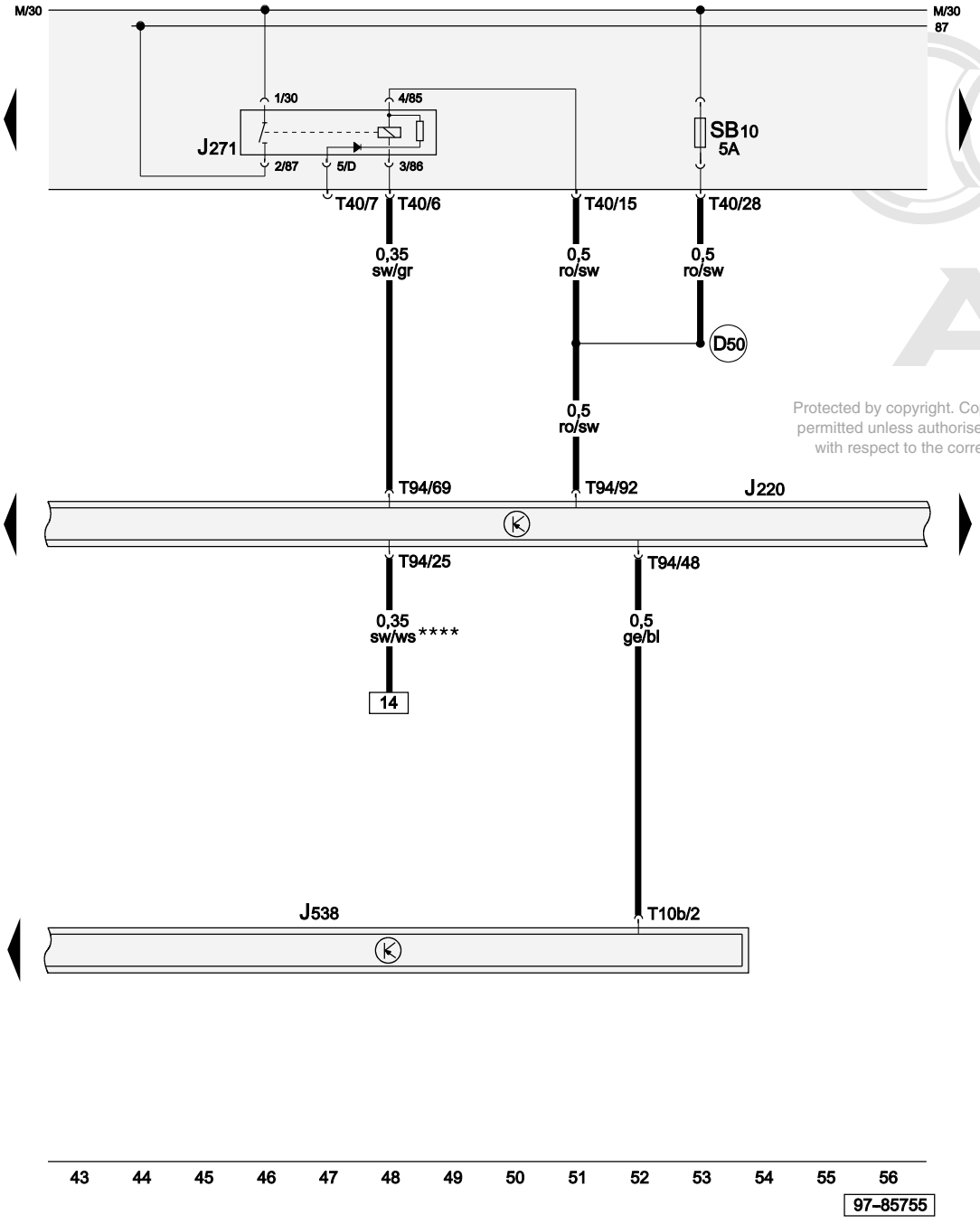


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Fuses on fuse holder

C	Alternator
J220	Motronic control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC31	Fuse 31 on fuse holder C
T2t	2-pin connector, black (connector L)
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
#	is dropped from November 2005
##	applicable from November 2005

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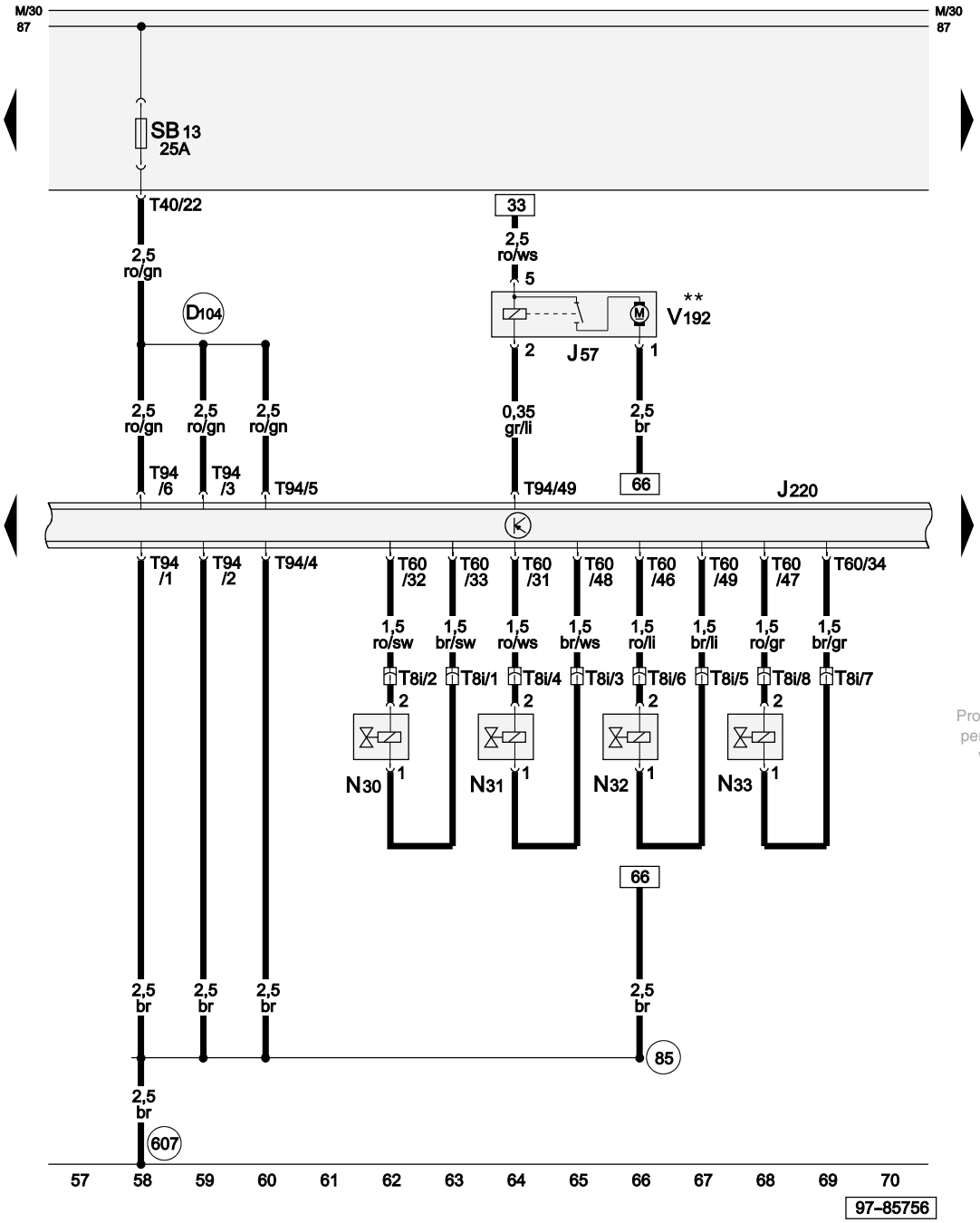


Motronic current supply relay

J220	Motronic control unit
J271	Motronic current supply relay
J538	Fuel pump control unit
SB10	Fuse 10 on fuse holder B
T10b	10-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
D50	Positive connection (30), in engine compartment wiring harness
****	for models with cruise control system only

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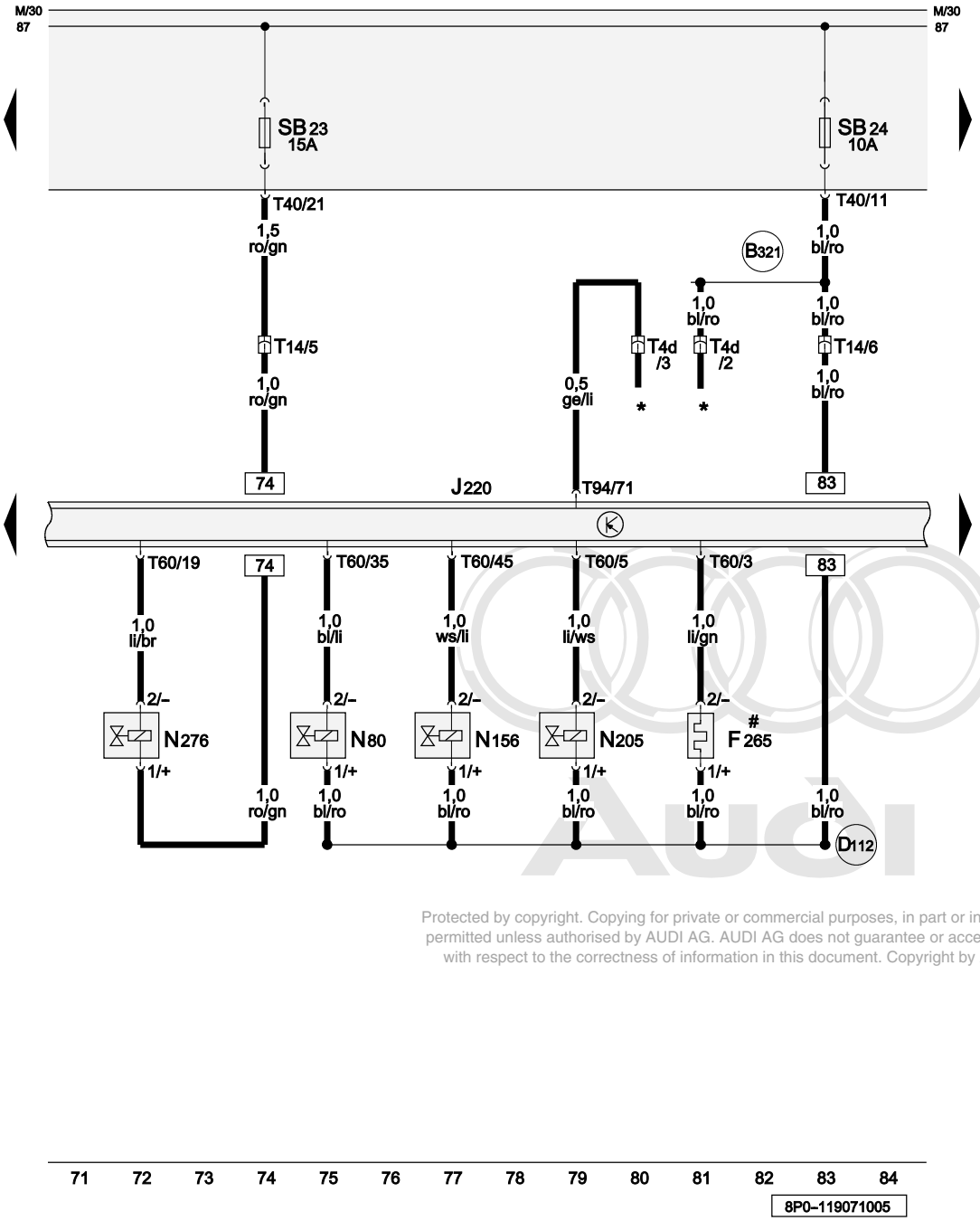


Injectors, vacuum pump for brakes

J57	Vacuum pump relay
J220	Motronic control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SB13	Fuse 13 on fuse holder B
T8i	8-connector, black, near injectors
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V192	Vacuum pump for brakes
85	Earth connection 1, in engine compartment wiring harness
607	Earth point, on left in plenum chamber
D104	Positive connection 2 (30a), in engine compartment wiring harness
**	for models with automatic gearbox only

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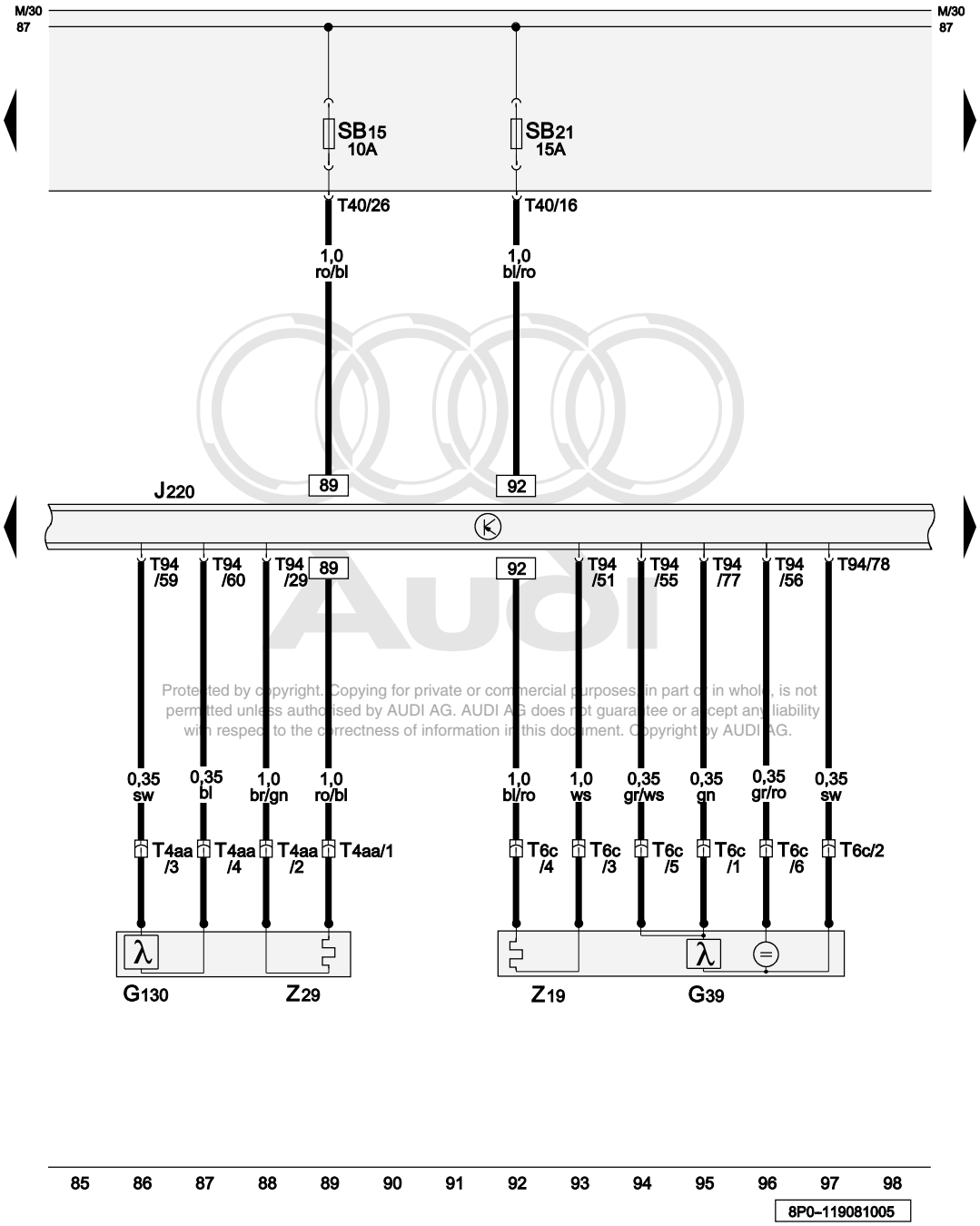


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Solenoid valve, map-controlled engine cooling system thermostat

F265	Map-controlled engine cooling system thermostat
J220	Motronic control unit
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
N276	Fuel pressure regulating valve
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B321	Positive connection 7 (30a), in main wiring harness
D112	Connection 10, in engine compartment wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan control
#	is dropped from November 2005

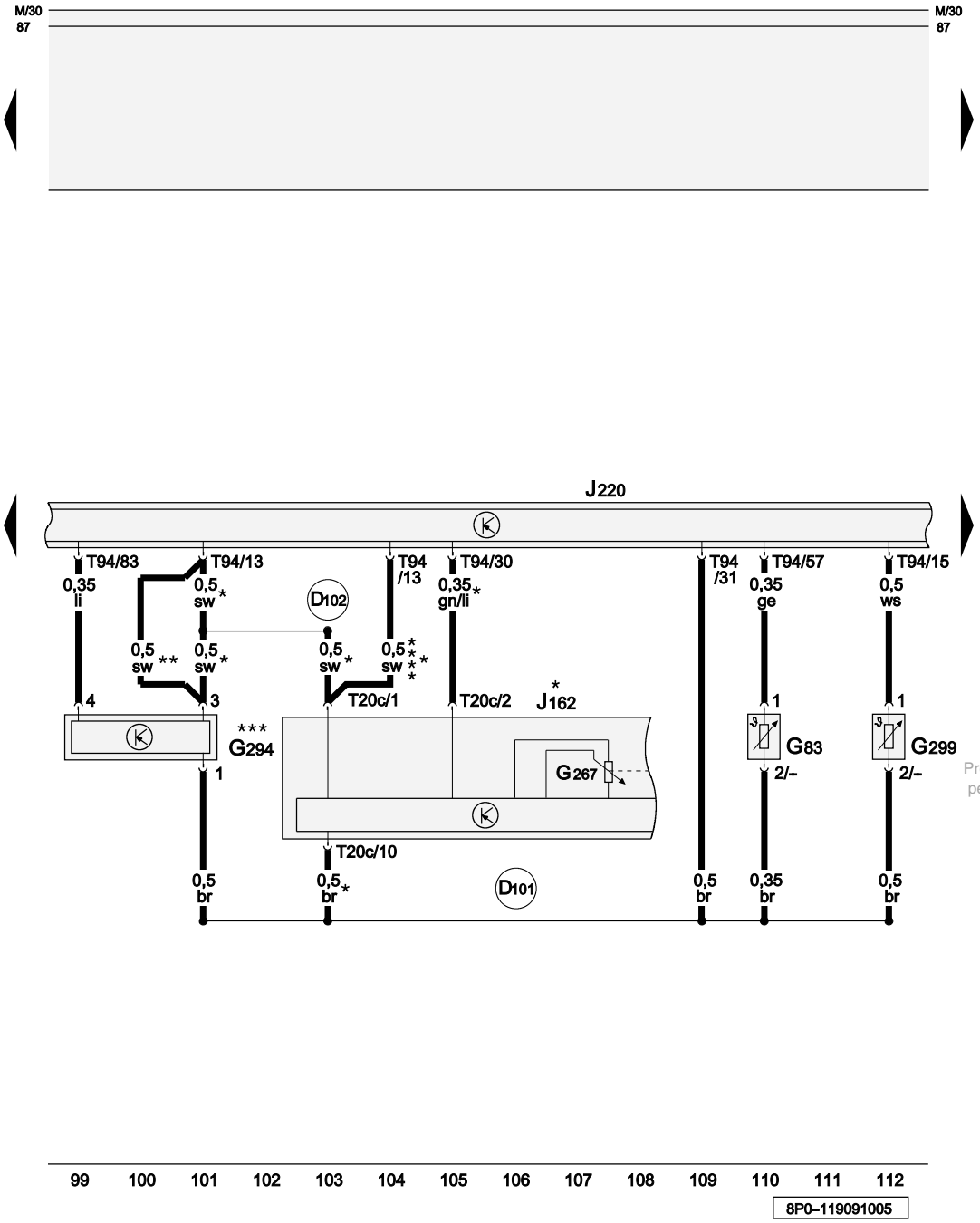


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Lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J220	Motronic control unit
SB15	Fuse 15 on fuse holder B
SB21	Fuse 21 on fuse holder B
T4aa	4-pin connector, grey, on lambda probe after catalytic converter
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter

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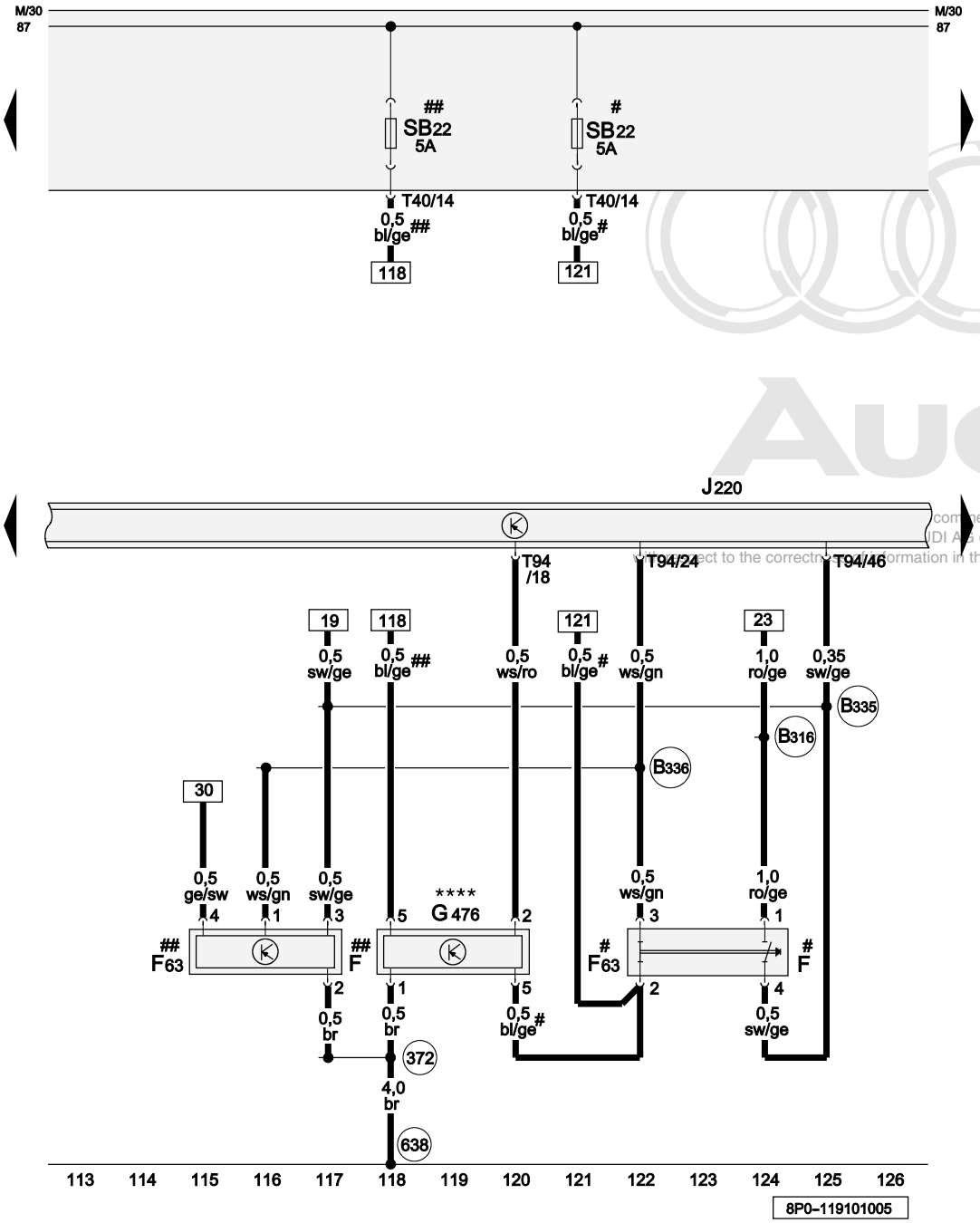


Radiator outlet coolant temperature sender, brake servo pressure sensor

G83	Radiator outlet coolant temperature sender
G267	Potentiometer for temperature selection rotary knob
G294	Brake servo pressure sensor
G299	Intake air temperature sender 2
J162	Heater control unit
J220	Motronic control unit
T20c	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness
*	only for models without air conditioning system, is dropped, from November 2005
**	for models with air conditioning system only
***	only for models with brake servo pressure sensor, is dropped, from November 2005
****	for models with anti-lock brake system and automatic gearbox (09G) only

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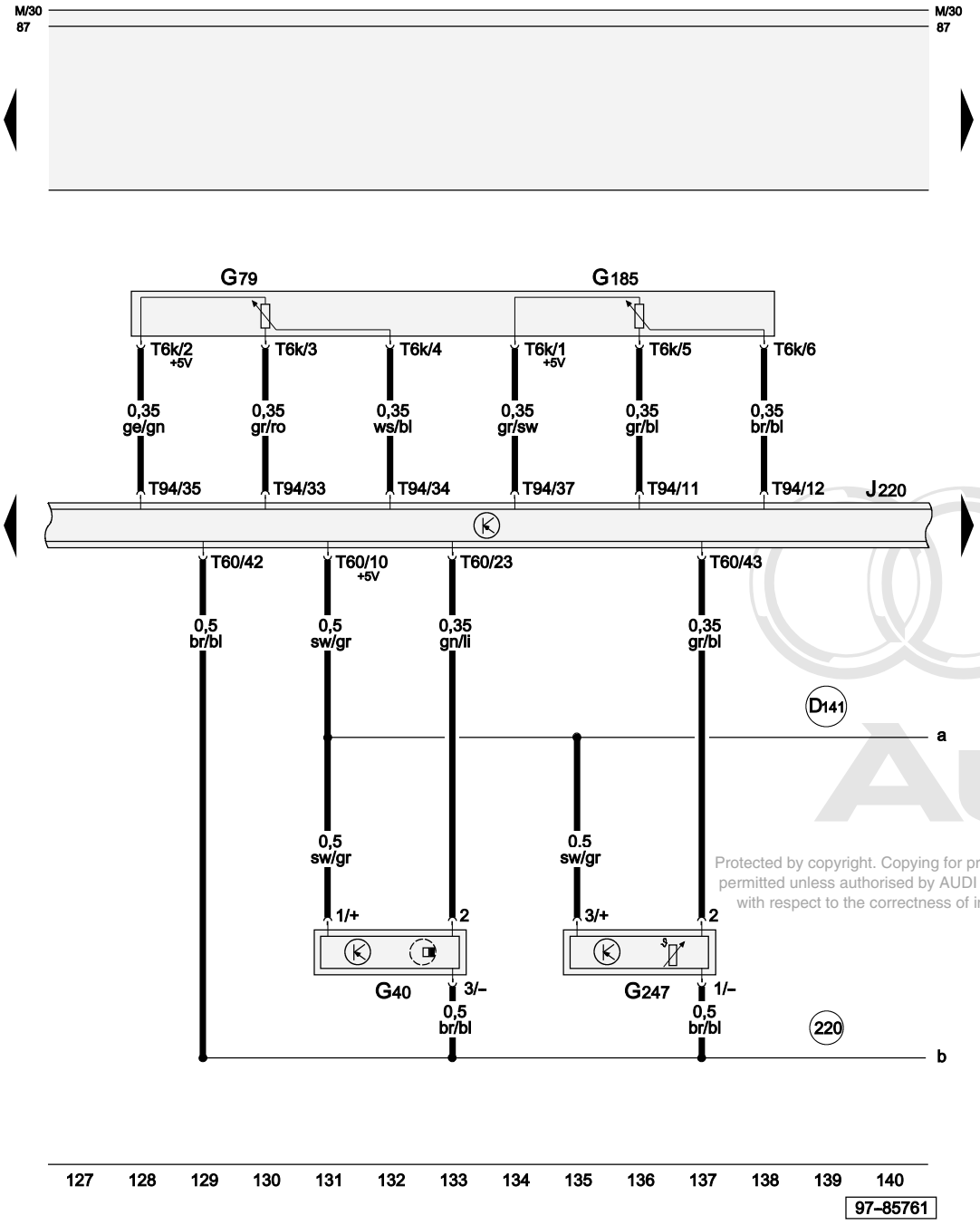


Brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J220	Motronic control unit
SB22	Fuse 22 on fuse holder B
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
B336	Connection 2 (54), in main wiring harness
****	for models with manual gearbox only
#	is dropped from November 2005
##	applicable from November 2005

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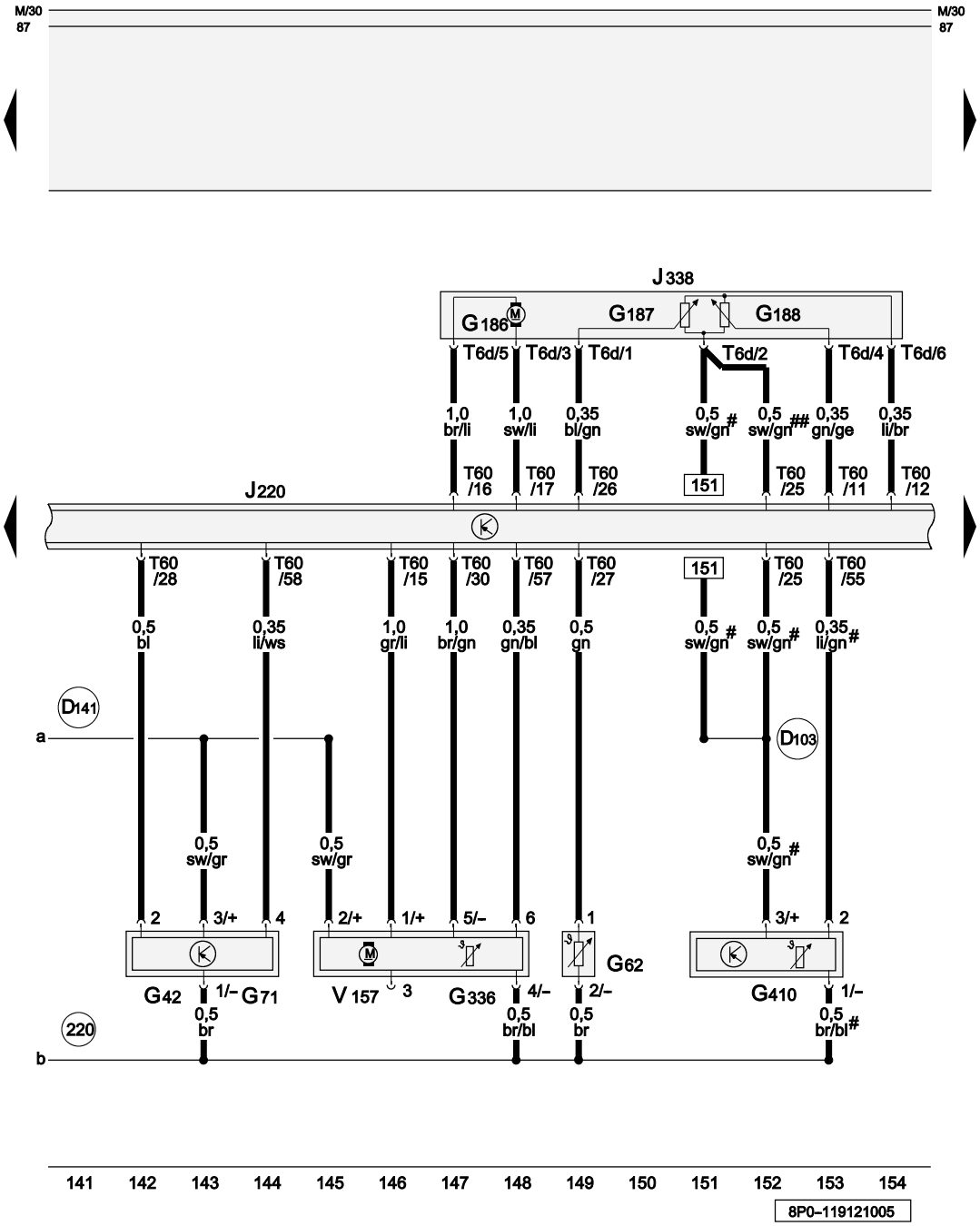


Hall sender, fuel pressure sender

G40	Hall sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G247	Fuel pressure sender
J220	Motronic control unit
T6k	6-pin connector, black, near accelerator position sender
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
220	Earth connection (sender earth), in engine wiring harness
D141	Connection (5V), in engine wiring harness

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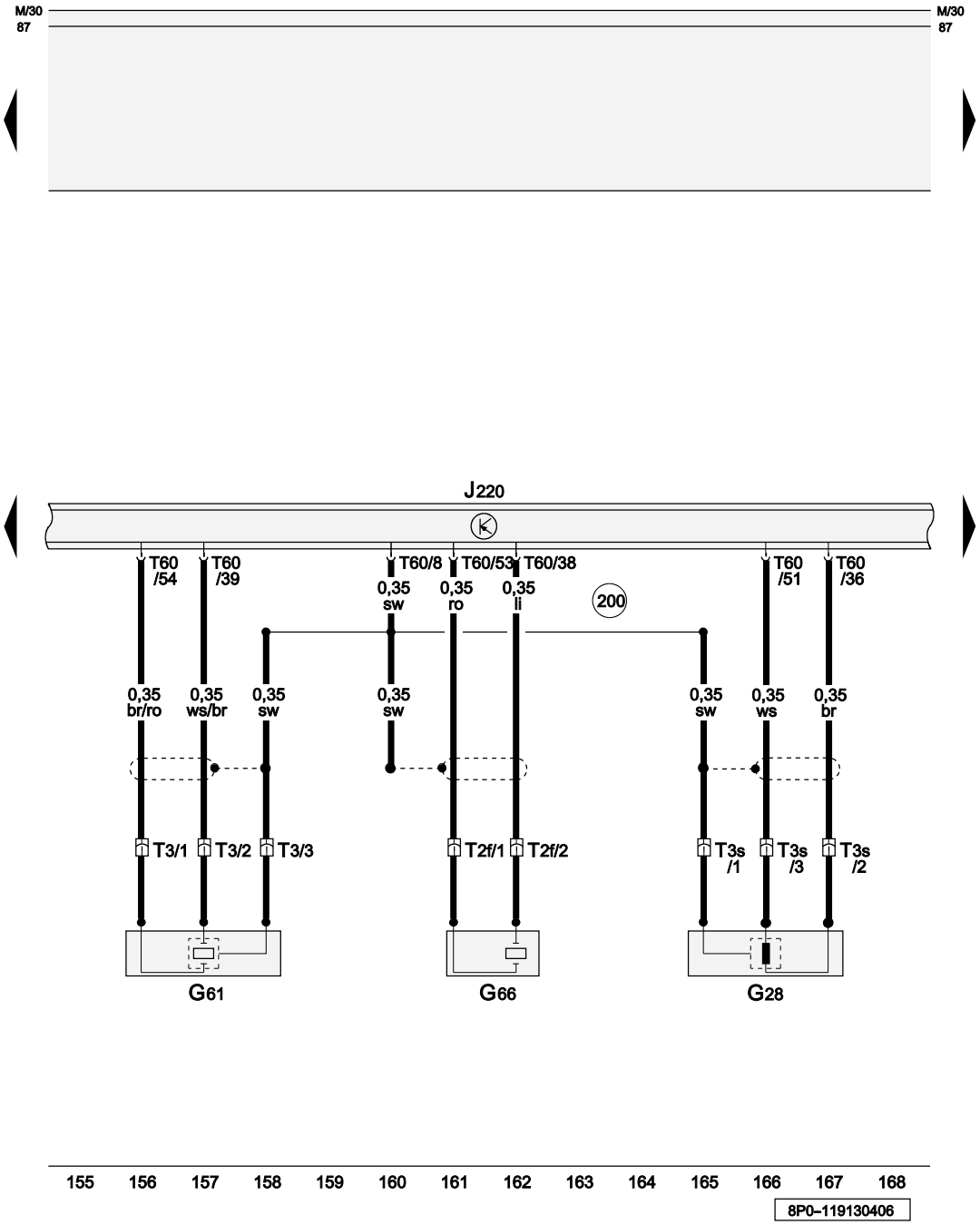


Intake air temperature sender, coolant temperature sender, intake manifold pressure sender

G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G336	Intake manifold flap potentiometer
G410	Fuel pressure sender for low pressure
J220	Motronic control unit
J338	Throttle valve module
T6d	6-pin connector, black, near throttle valve module
T60	60-pin connector, black (connector A)
V157	Intake manifold flap motor
220	Earth connection (sender earth), in engine wiring harness
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
#	is dropped from November 2005
##	applicable from November 2005

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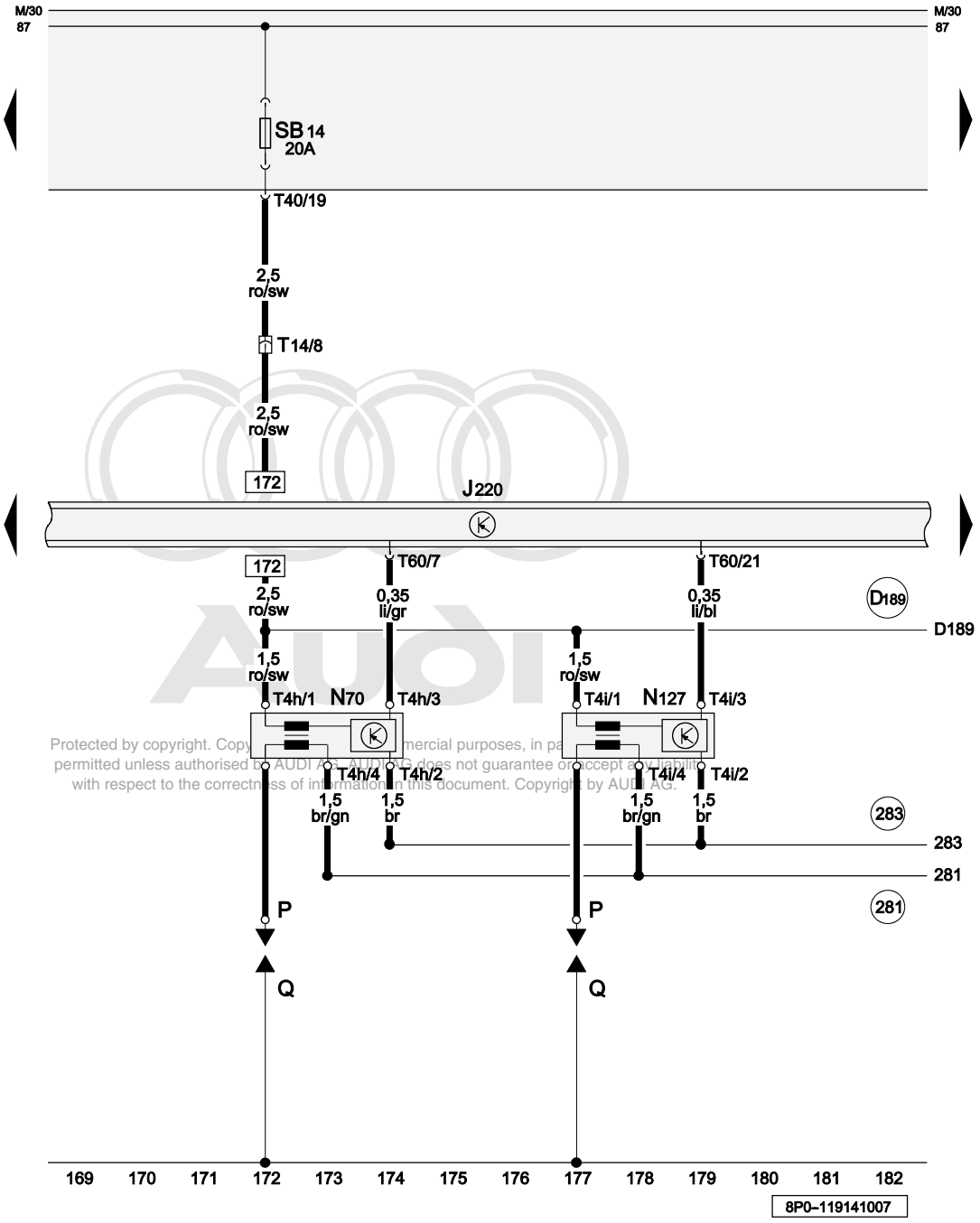


Engine speed sender, knock sensors

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J220	Motronic control unit
T2f	2-pin connector, black, in left engine compartment (knock sensor 2)
T3	3-pin connector, red, in left engine compartment (knock sensor)
T3s	3-pin connector
T60	60-pin connector, black (connector A)
(200)	Earth connection (screening) in engine compartment wiring harness

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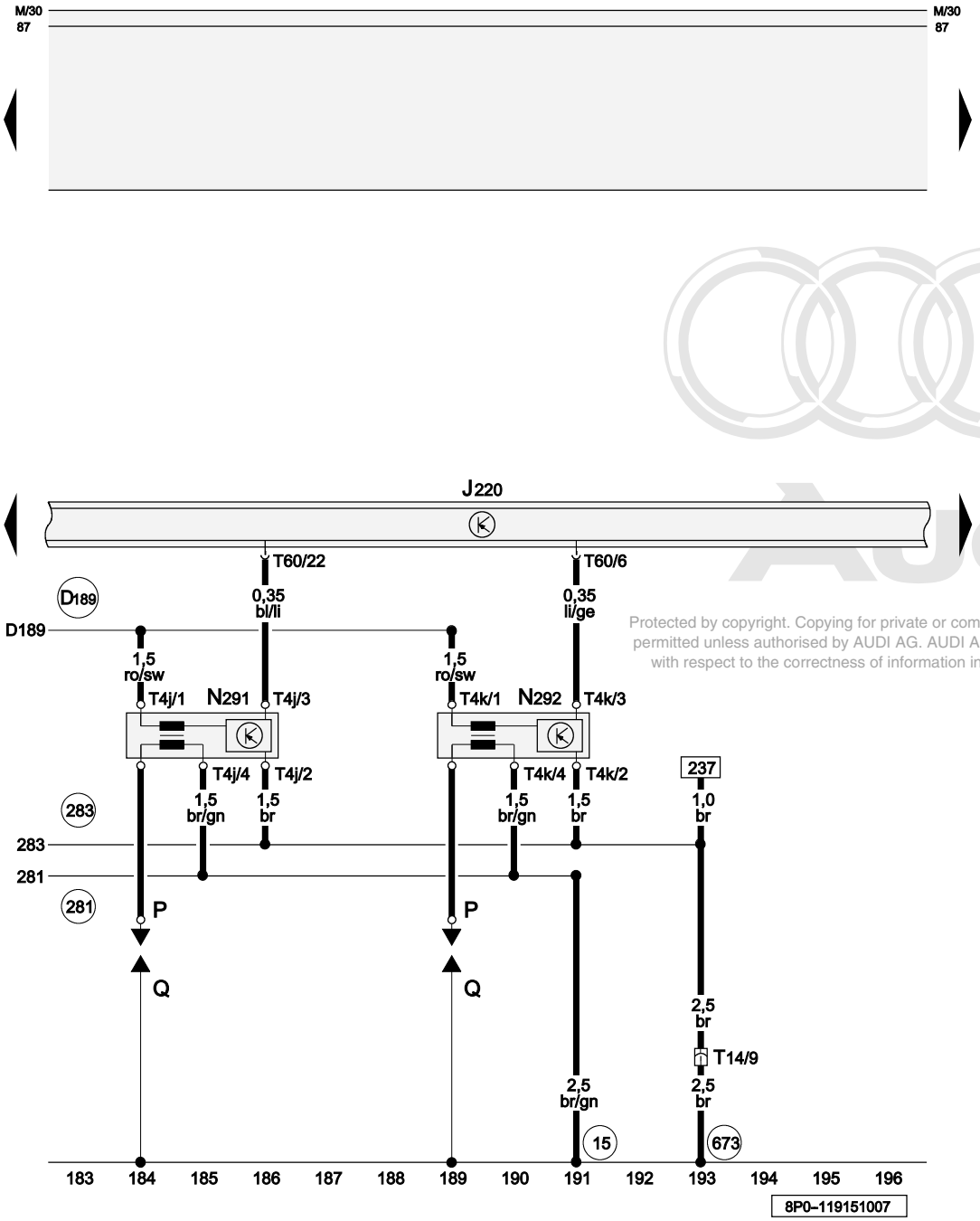


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Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
P	Spark plug connector
Q	Spark plugs
SB14	Fuse 14 on fuse holder B
T4h	4-pin connector, black, on ignition coil 1 with output stage
T4i	4-pin connector, black, on ignition coil 2 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
D189	Connection (87a), in engine wiring harness

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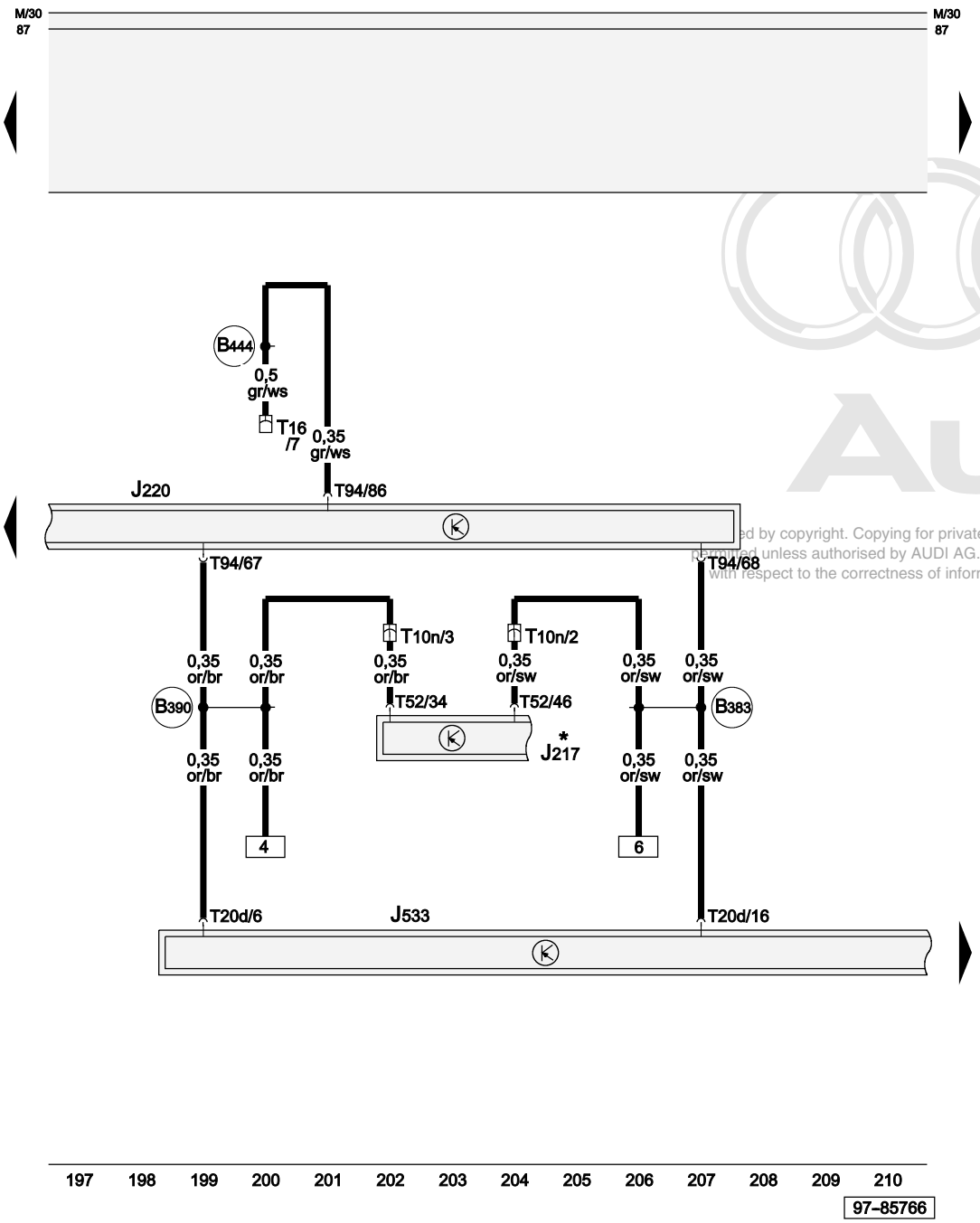


Ignition coils 3 and 4 with output stage, spark plug connector, spark plugs

J220	Motronic control unit
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4j	4-pin connector, black, on ignition coil 3 with output stage
T4k	4-pin connector, black, on ignition coil 4 with output stage
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
15	Earth point, on cylinder head
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
673	Earth point 3, on front of left longitudinal member
D189	Connection (87a), in engine wiring harness

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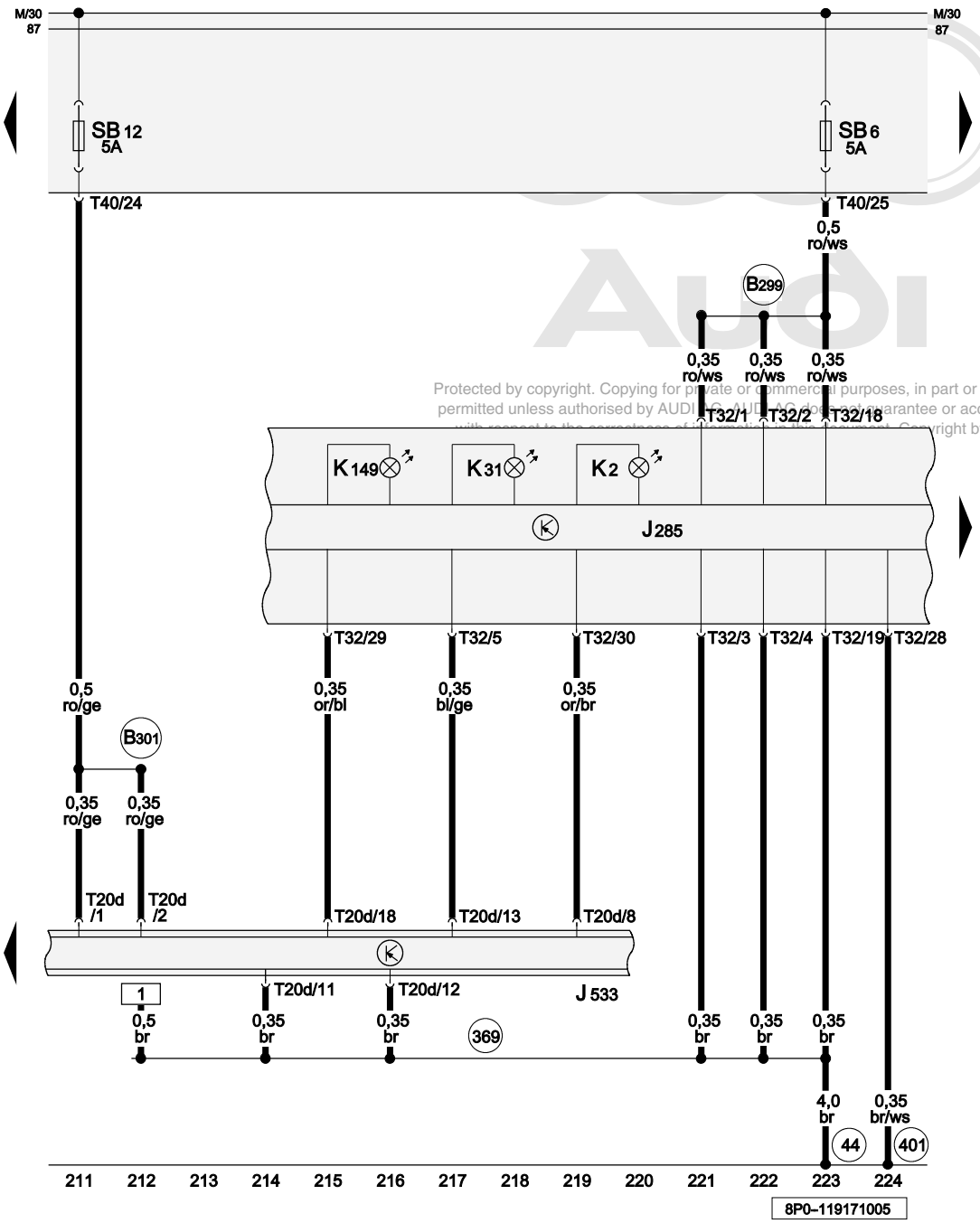


Drive train CAN bus, diagnosis

J217	Automatic gearbox control unit
J220	Motronic control unit
J533	Data bus diagnostic interface
T10n	10-pin connector, black, near longitudinal member, front left
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T52	52-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
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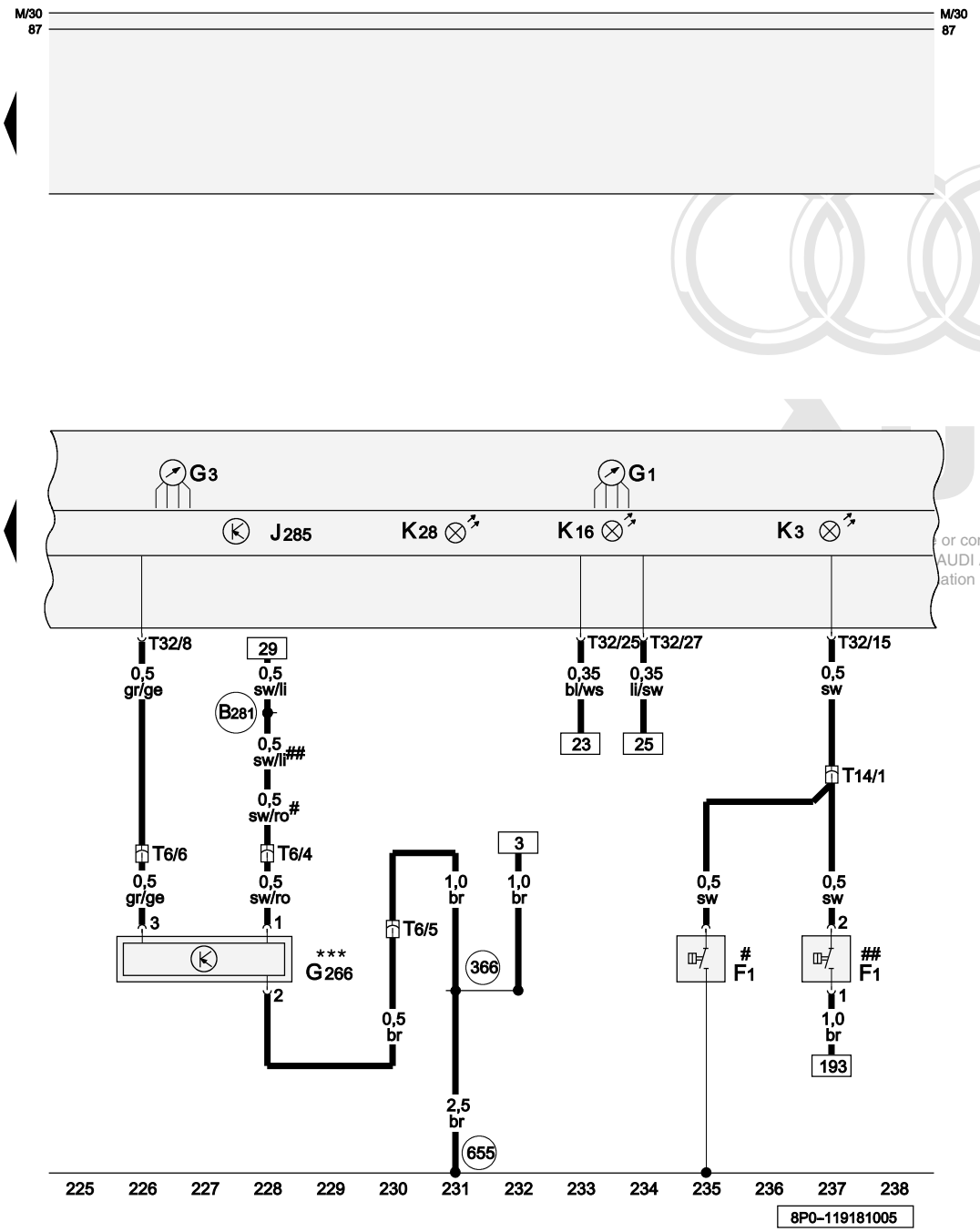


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Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB6	Fuse 6 on fuse holder B
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness



Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B281	Positive connection 5 (15a), in main wiring harness
***	for models with extended servicing intervals (ESI) only
#	No longer fitted, phased-in modification
##	phased-in modification

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1.9 l - Diesel engine (77 kW - unit injectors - 4 cylinder), engine code BLS

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

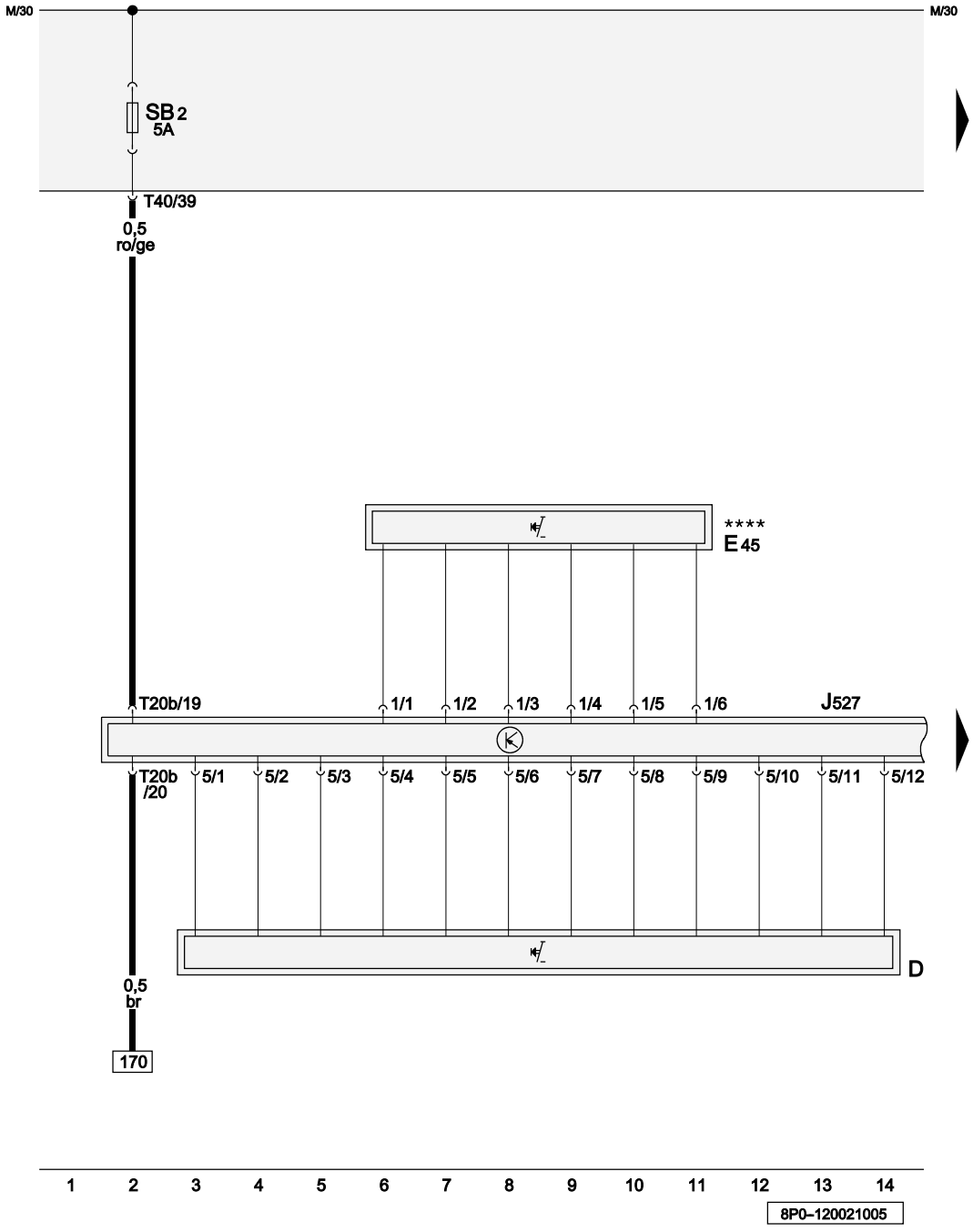
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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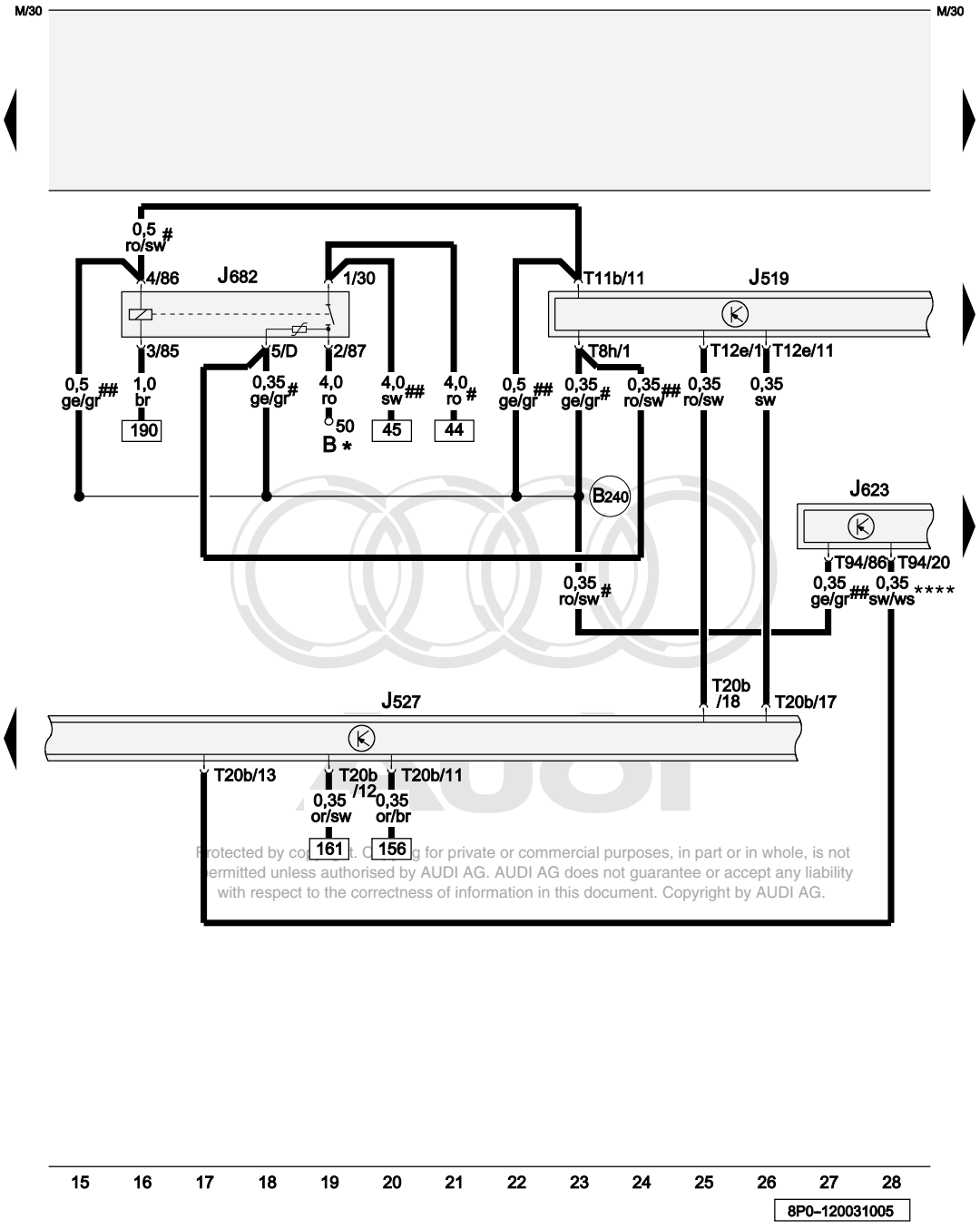


Cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J527	Steering column electronics control unit
SB2	Fuse 2 on fuse holder B
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
****	for models with cruise control system only

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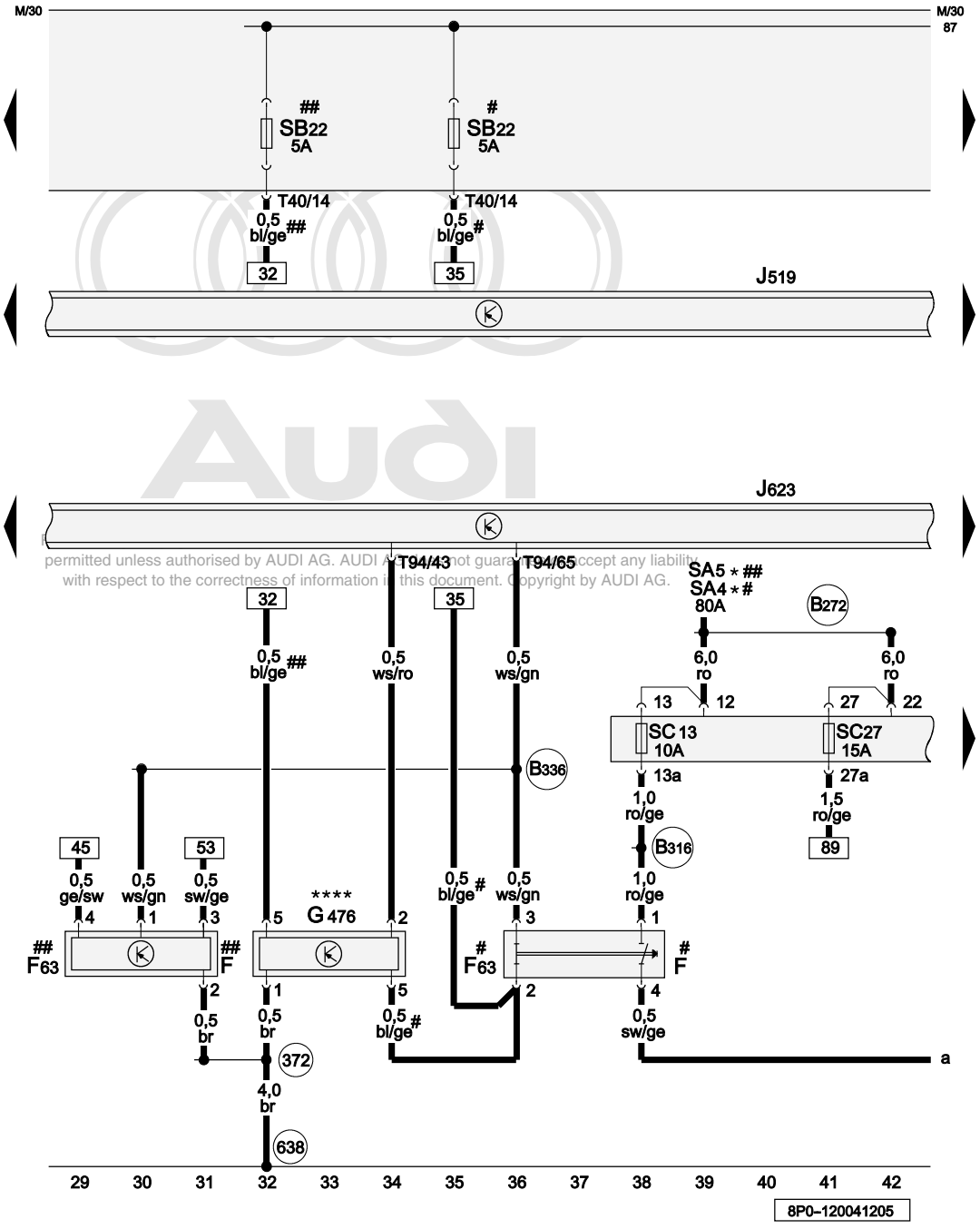


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Terminal 50 voltage supply relay

B	Starter
J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B240	Positive connection 2 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
****	for models with cruise control system only
#	is dropped from November 2005
##	applicable from November 2005

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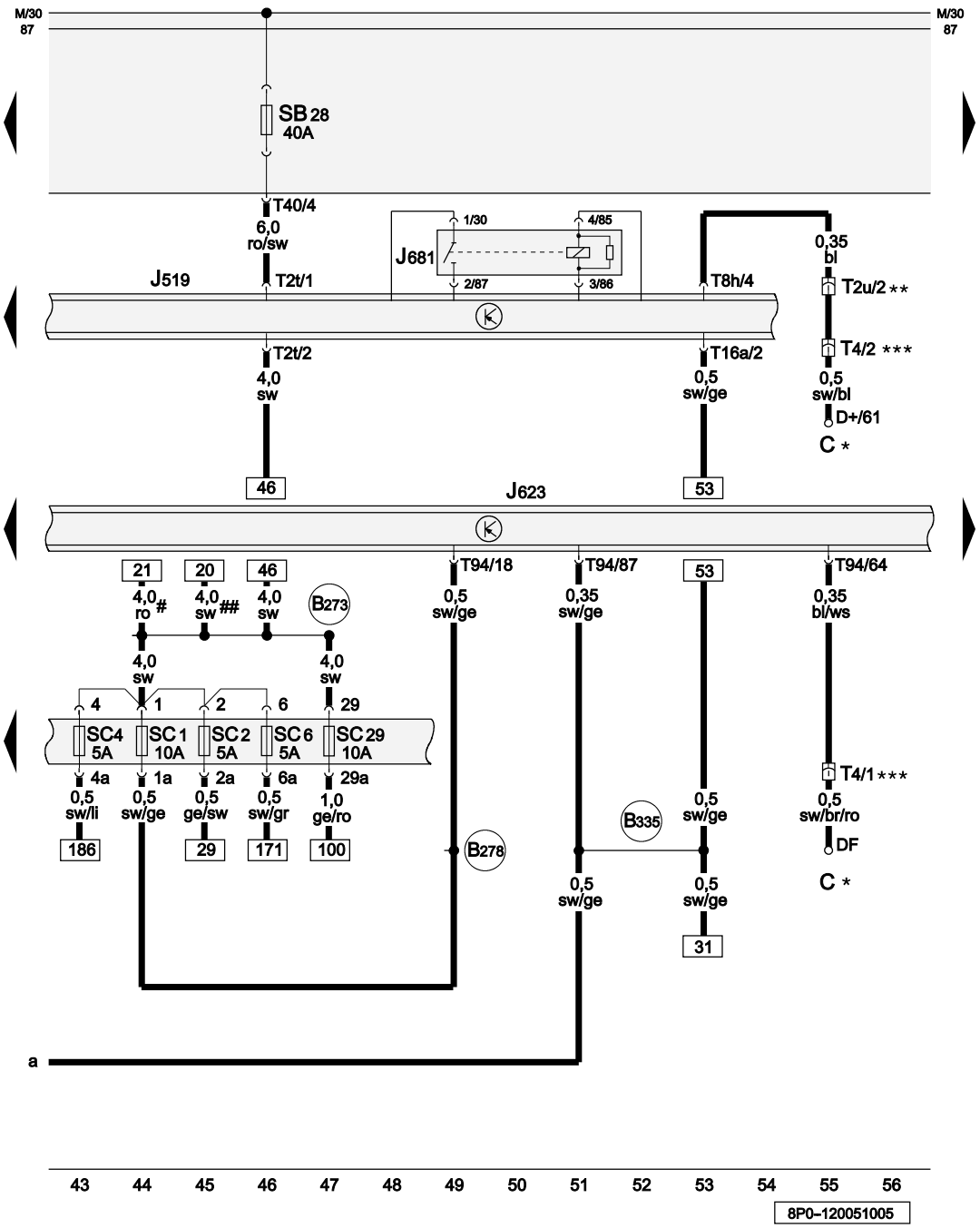


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Brake light switch, brake pedal switch, clutch position sender, fuses on fuse holder

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J623	Engine control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SB22	Fuse 22 on fuse holder B
SC13	Fuse 13 on fuse holder C
SC27	Fuse 27 on fuse holder C
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B272	Positive connection (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B336	Connection 2 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
****	for models with manual gearbox only
#	is dropped from November 2005
##	applicable from November 2005

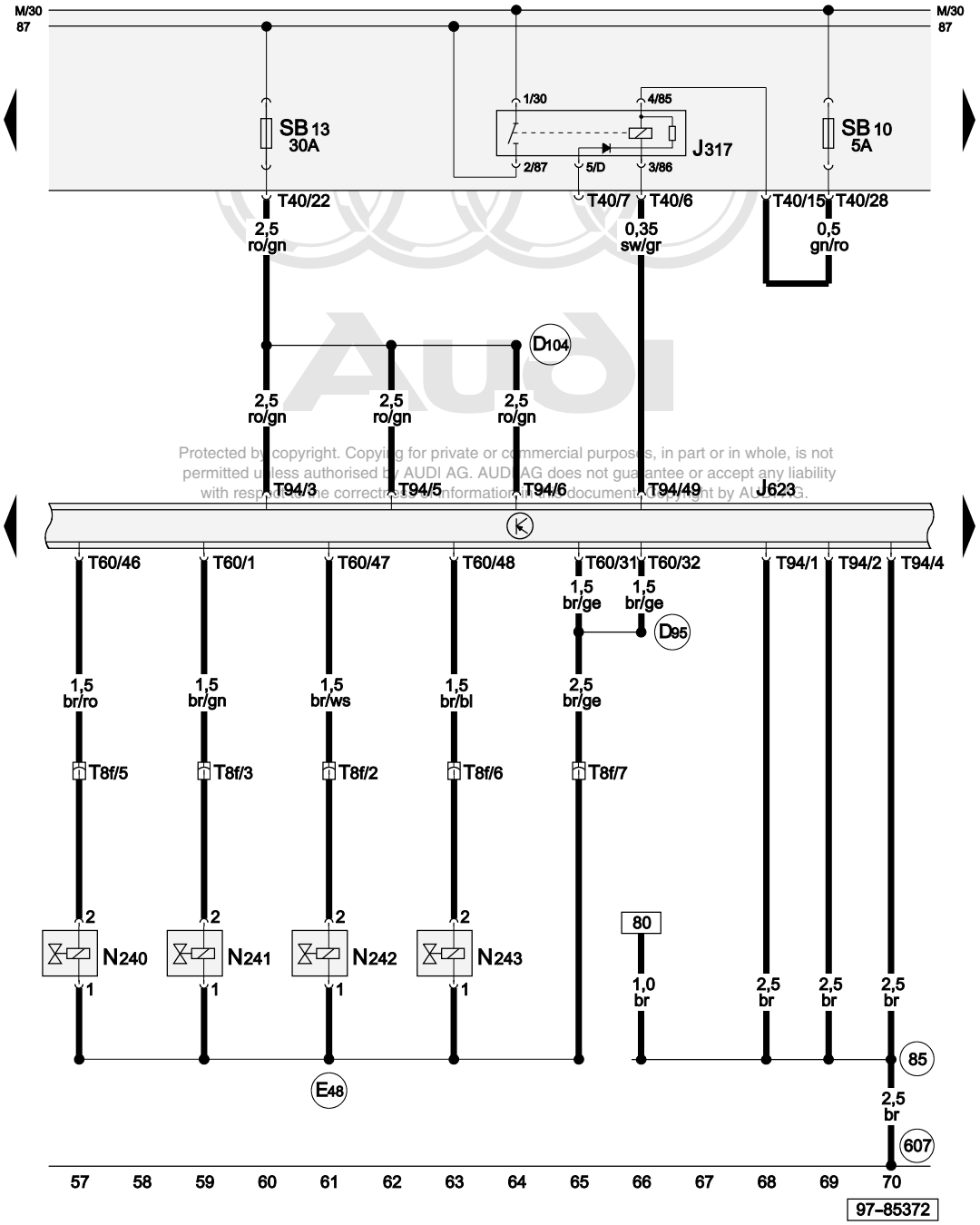


Fuses on fuse holder

C	Alternator
J519	Onboard supply control unit
J623	Engine control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC6	Fuse 6 on fuse holder C
SC29	Fuse 29 on fuse holder C
T2t	2-pin connector, black (connector L)
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
#	is dropped from November 2005
##	applicable from November 2005

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bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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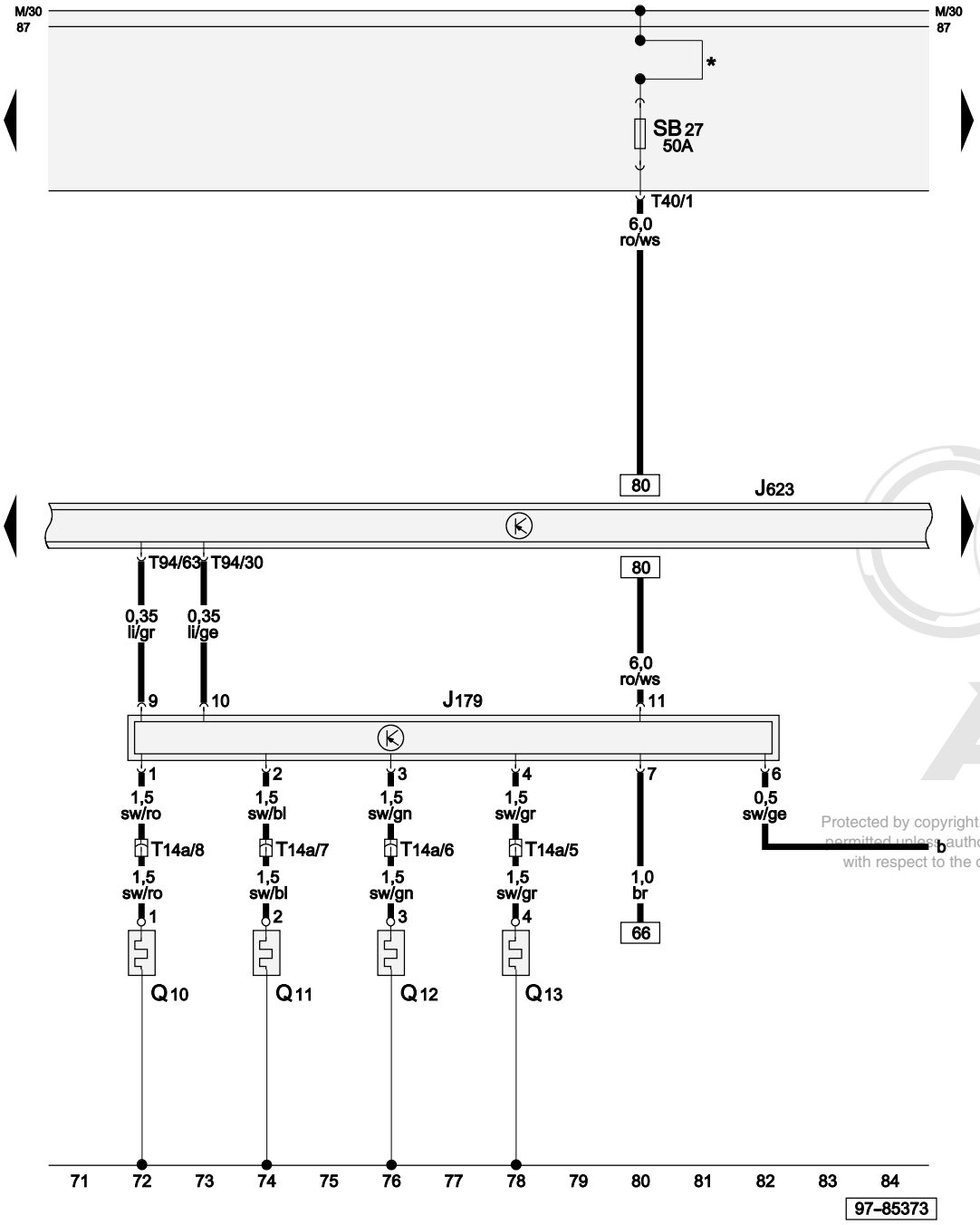


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Terminal 30 voltage supply relay, unit injector valves

J317	Terminal 30 voltage supply relay
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
T8f	8-connector, black, in engine compartment
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
85	Earth connection 1, in engine compartment wiring harness
607	Earth point, on left in plenum chamber
D95	Connection (injectors), in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

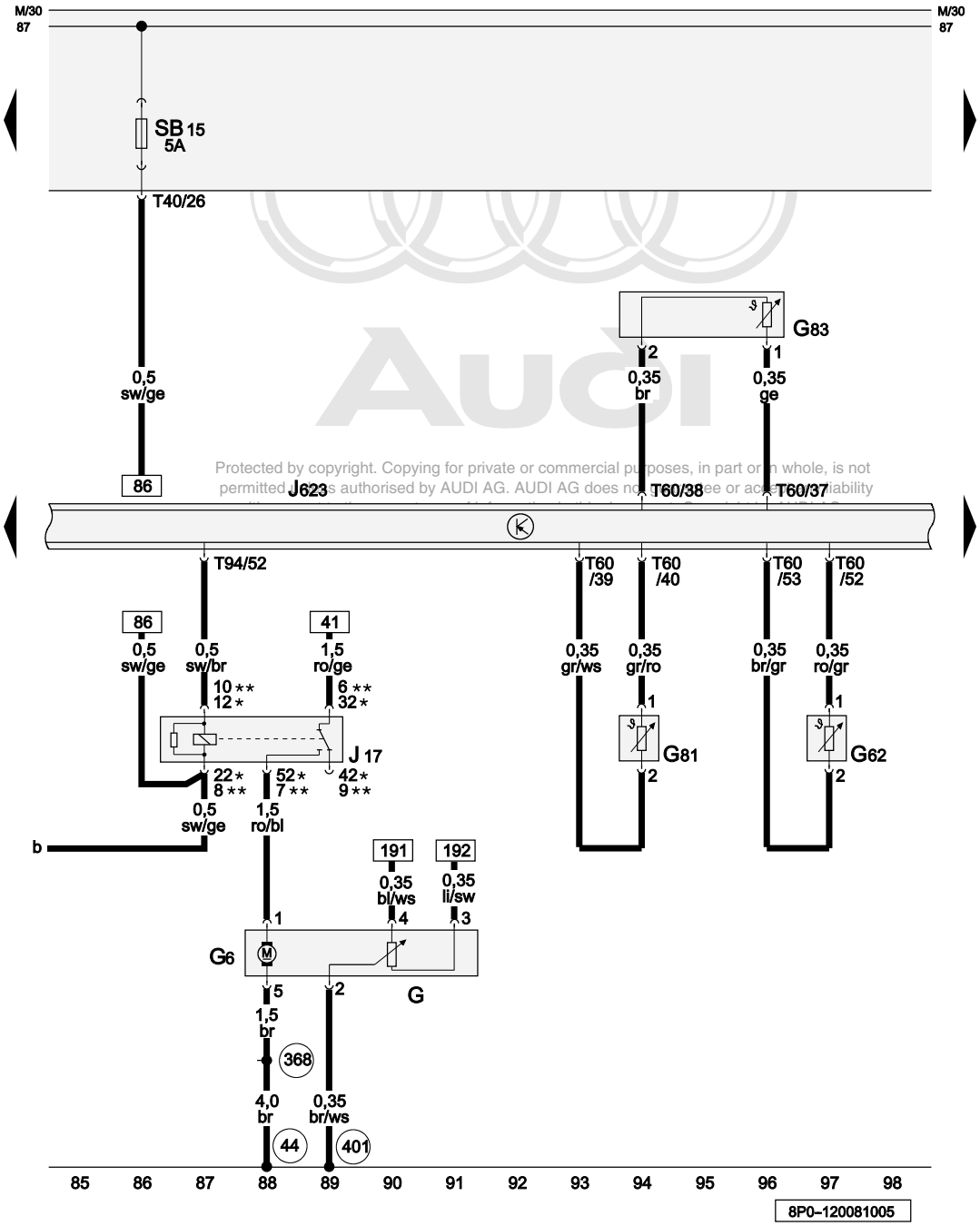


Glow plugs, automatic glow period control unit

J179	Automatic glow period control unit
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
SB27	Fuse 27 on fuse holder B
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
*	electronics box, relay location 2 - bridge

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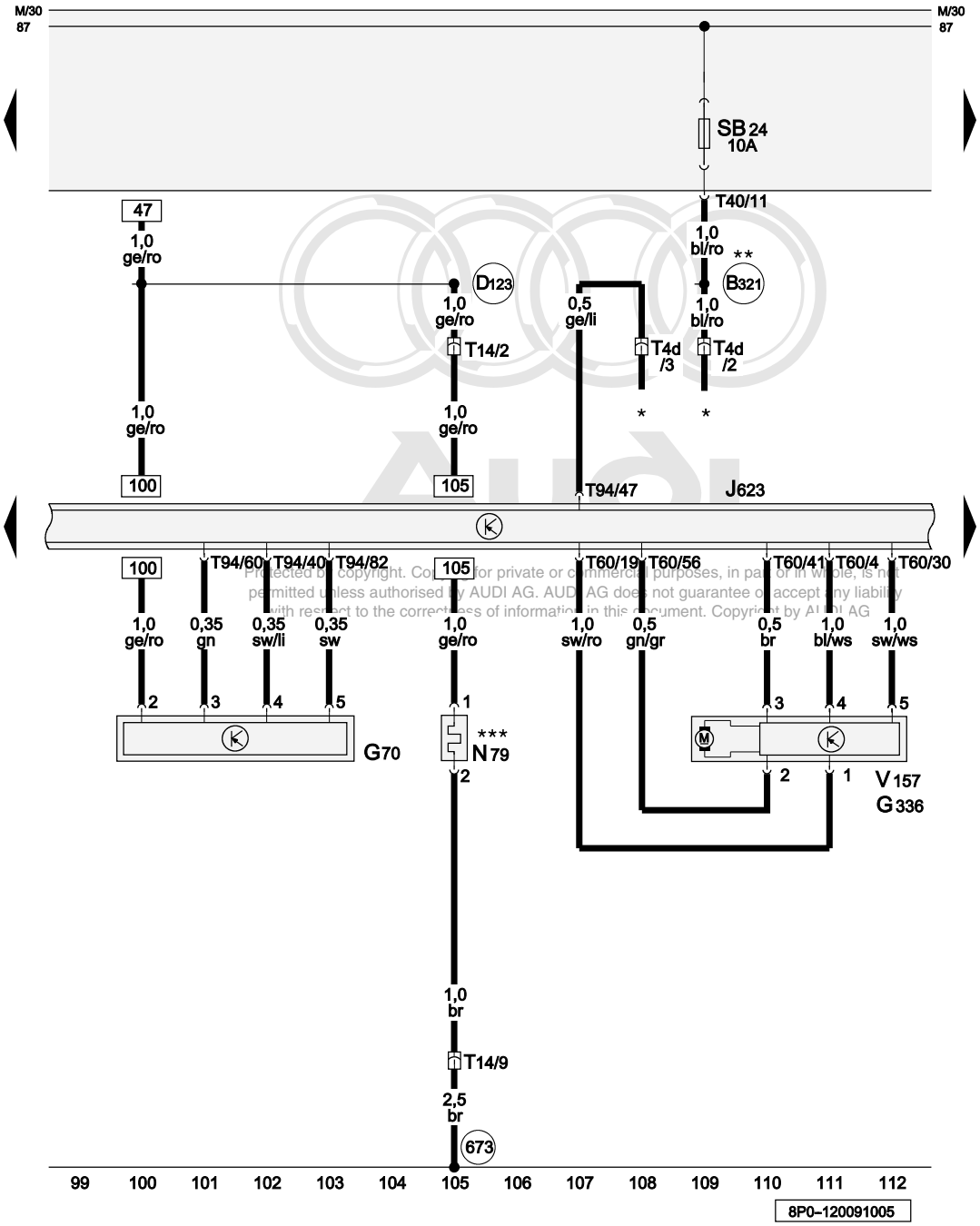


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Fuel pump, temperature sender

G	Fuel gauge sender
G6	Fuel system pressurisation pump
G62	Coolant temperature sender
G81	Fuel temperature sender
G83	Radiator outlet coolant temperature sender
J17	Fuel pump relay
J623	Engine control unit
SB15	Fuse 15 on fuse holder B
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
*	No longer fitted, phased-in modification
**	phased-in modification

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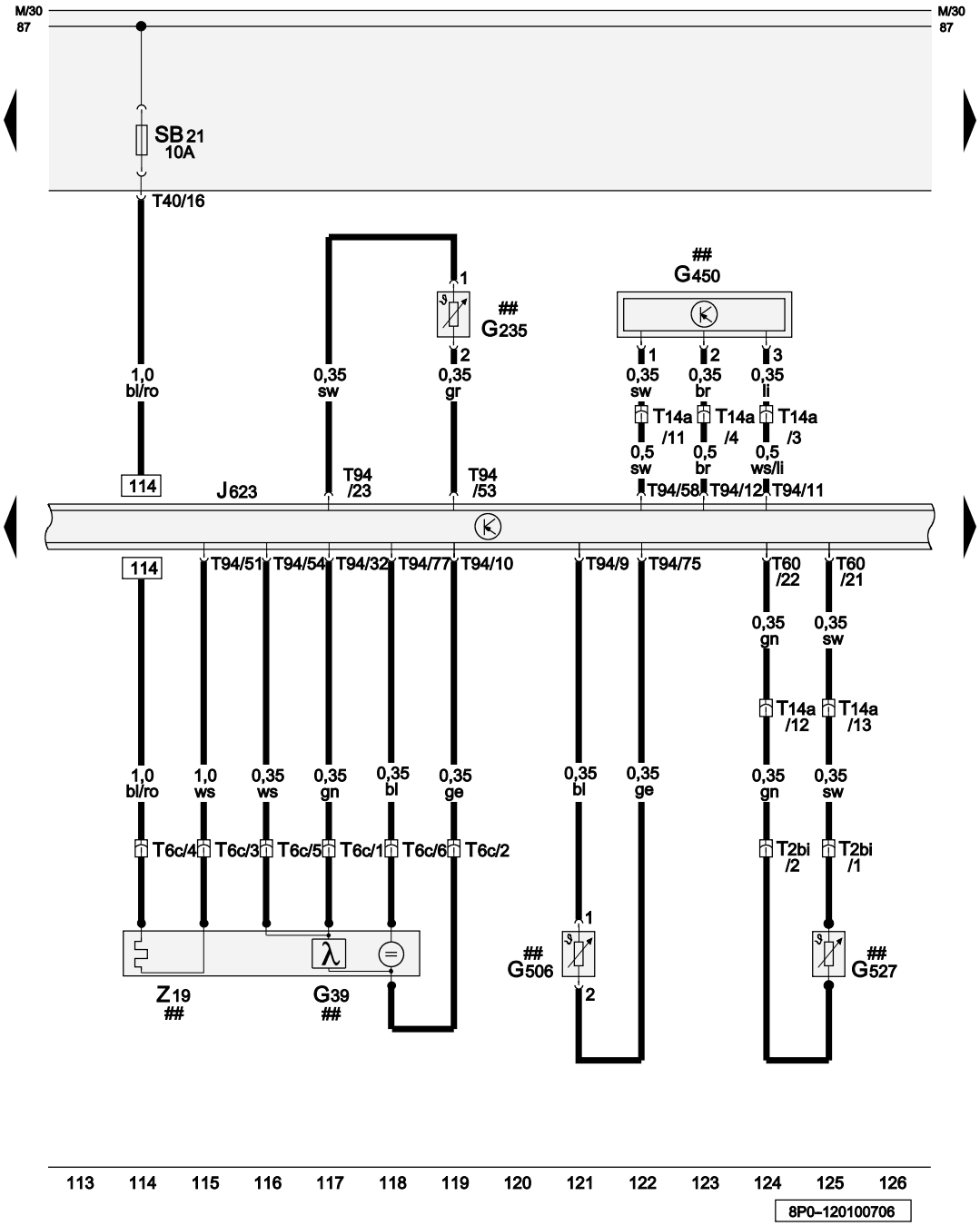


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Heater element for crankcase breather, intake manifold flap motor, air mass meter

G70	Air mass meter
G336	Intake manifold flap potentiometer
J623	Engine control unit
N79	Heater element for crankcase breather
SB24	Fuse 24 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V157	Intake manifold flap motor
673	Earth point 3, on front of left longitudinal member
B321	Positive connection 7 (30a), in main wiring harness
D123	Connection 21, in engine compartment wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan control
**	No longer fitted, phased-in modification
***	for models with heater element only

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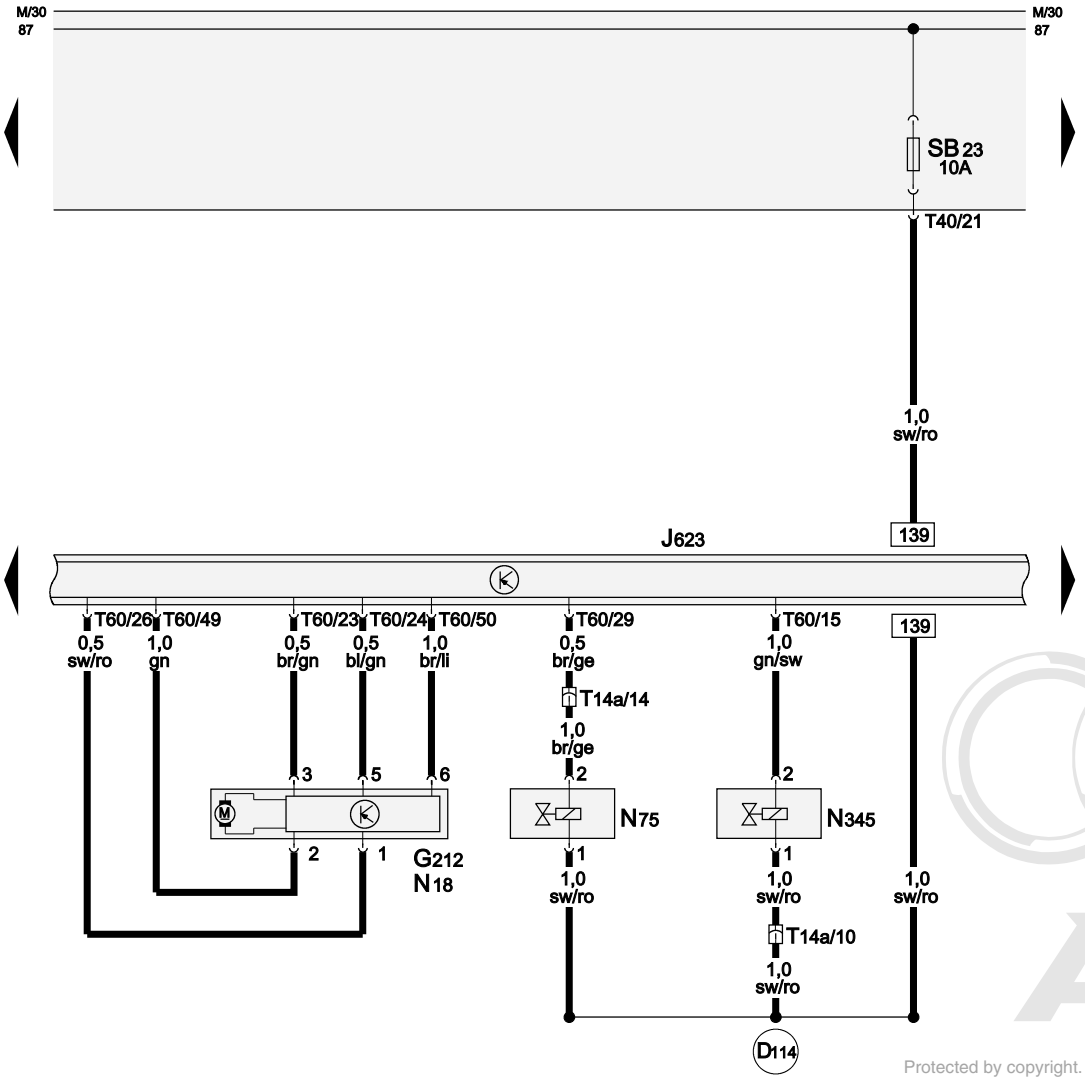


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Lambda probe, exhaust gas pressure sensor 1, temperature sensor

G39	Lambda probe
G235	Exhaust gas temperature sender 1
G450	Exhaust gas pressure sensor 1
G506	Temperature sender before particulate filter
G527	Temperature sender after particulate filter
J623	Engine control unit
SB21	Fuse 21 on fuse holder B
T2bi	2-pin connector, orange
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
##	applicable from November 2005

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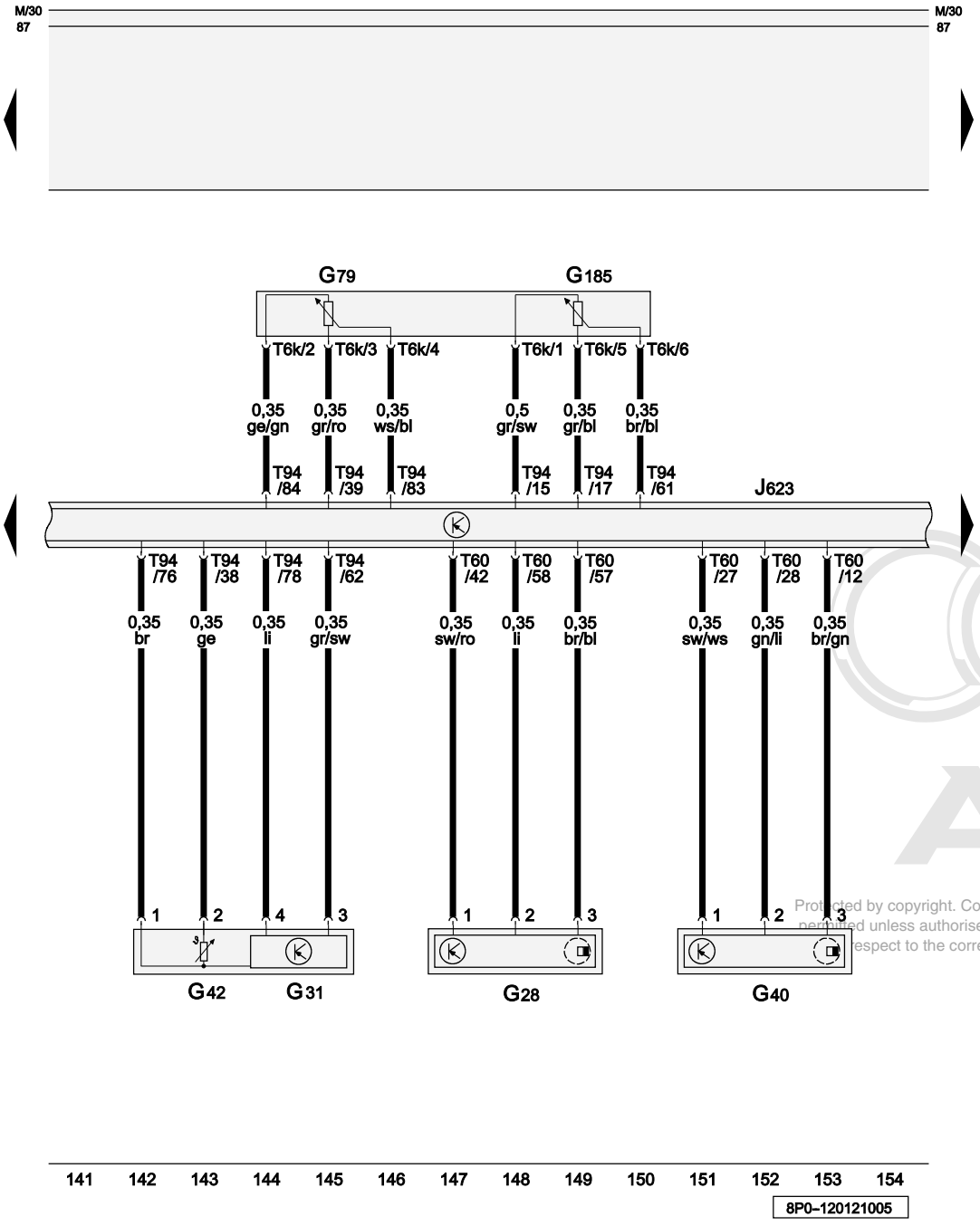


Solenoid valves

G212	Exhaust gas recirculation potentiometer
J623	Engine control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler change-over valve
SB23	Fuse 23 on fuse holder B
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D114	Connection 12, in engine compartment wiring harness

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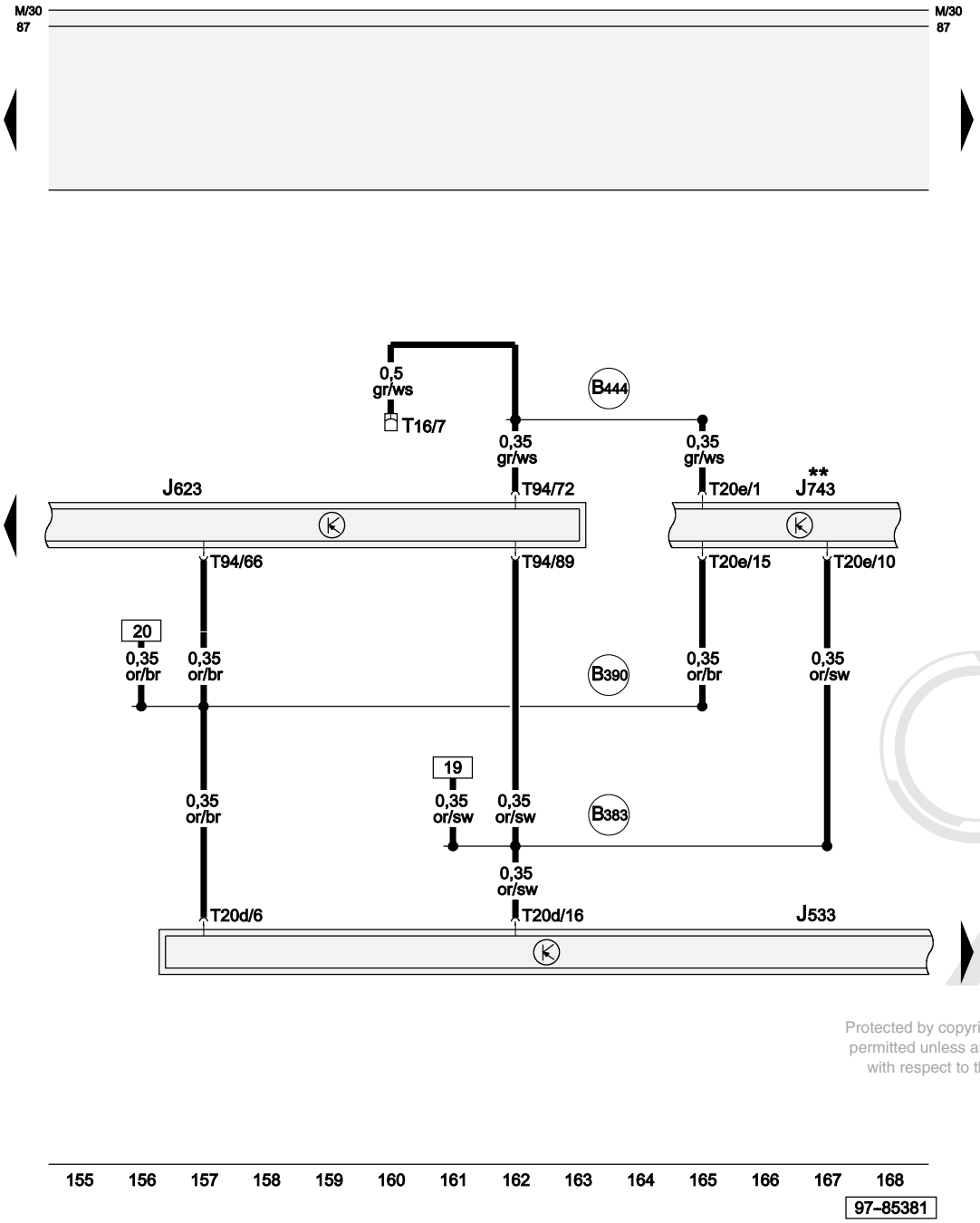


Engine speed sender, charge air pressure sender, hall sender

G28	Engine speed sender
G31	Charge air pressure sender
G40	Hall sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T6k	6-pin connector, black, near accelerator position sender
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)

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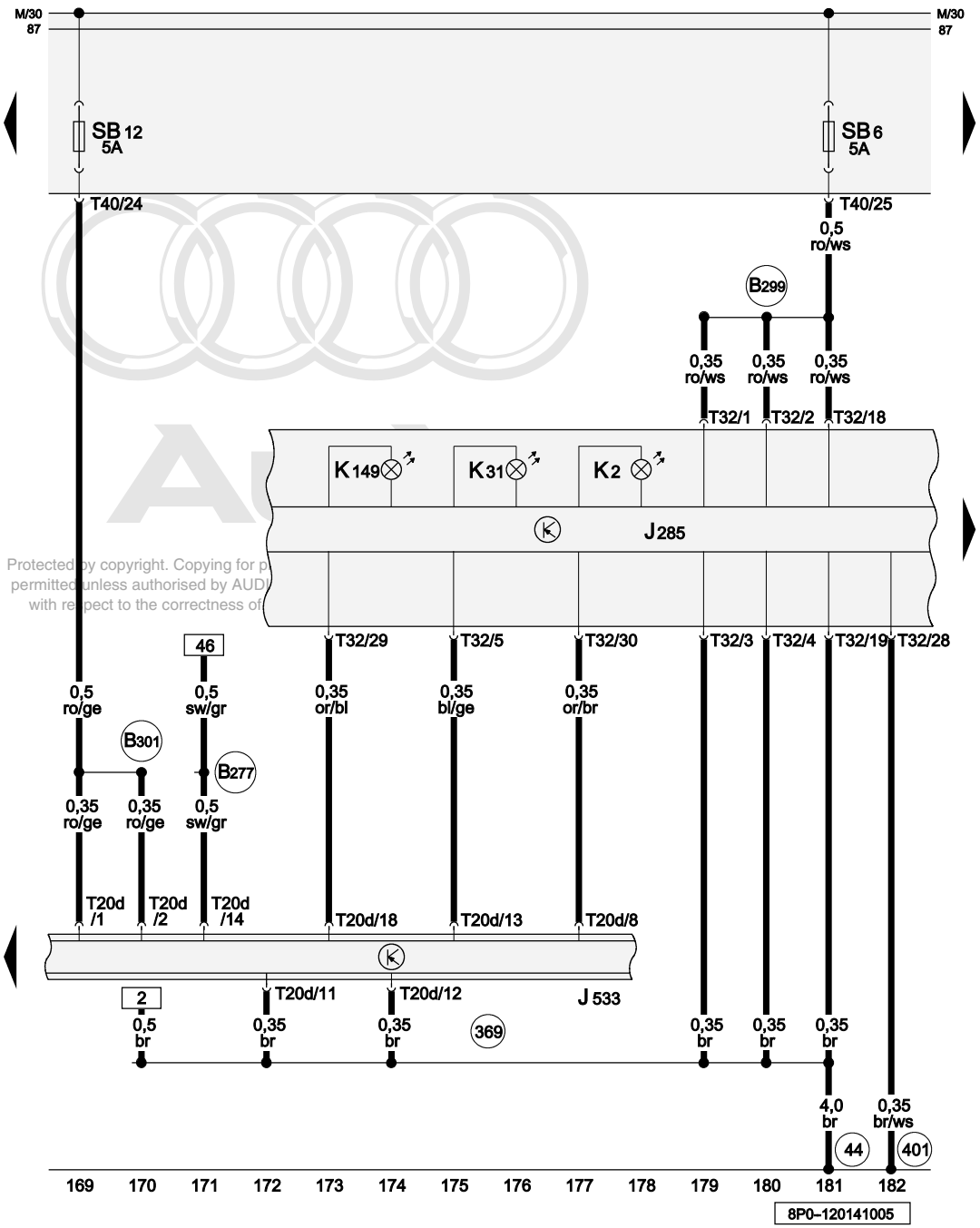


Drive train CAN bus, diagnosis

J533	Data bus diagnostic interface
J623	Engine control unit
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
**	for models with direct shift gearbox (02E) only

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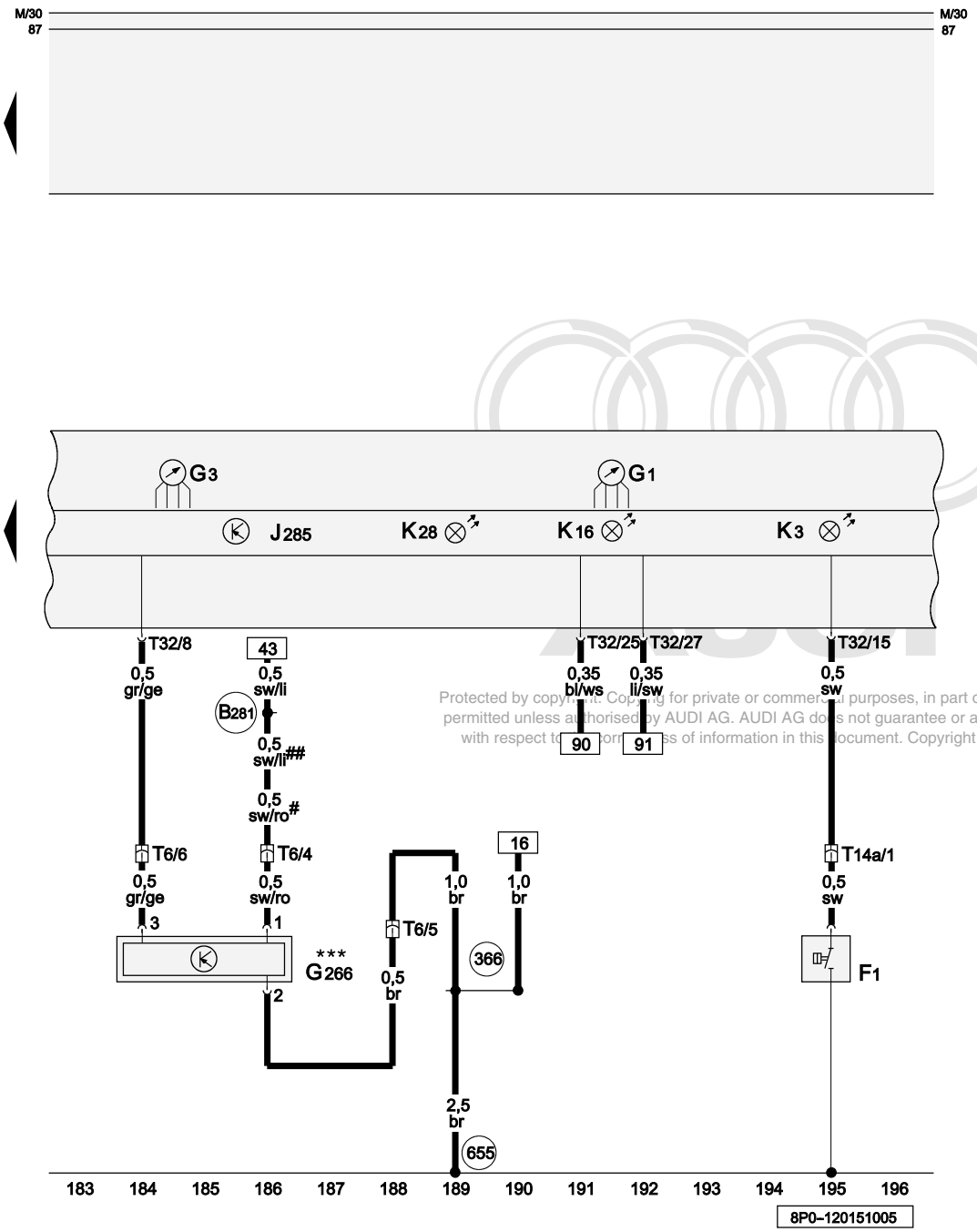


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Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB6	Fuse 6 on fuse holder B
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness



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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T14a	14-pin connector, black, near relay carrier electronics box
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B281	Positive connection 5 (15a), in main wiring harness
***	for models with extended servicing intervals (ESI) only
#	No longer fitted, phased-in modification
##	phased-in modification

1.9 l - Diesel engine (77 kW - unit injectors - 4 cylinder), engine code BKC
from model year 2006

2.0 l - Diesel engine (100 kW - unit injectors - 4 cylinder), engine code AZV
from model year 2006

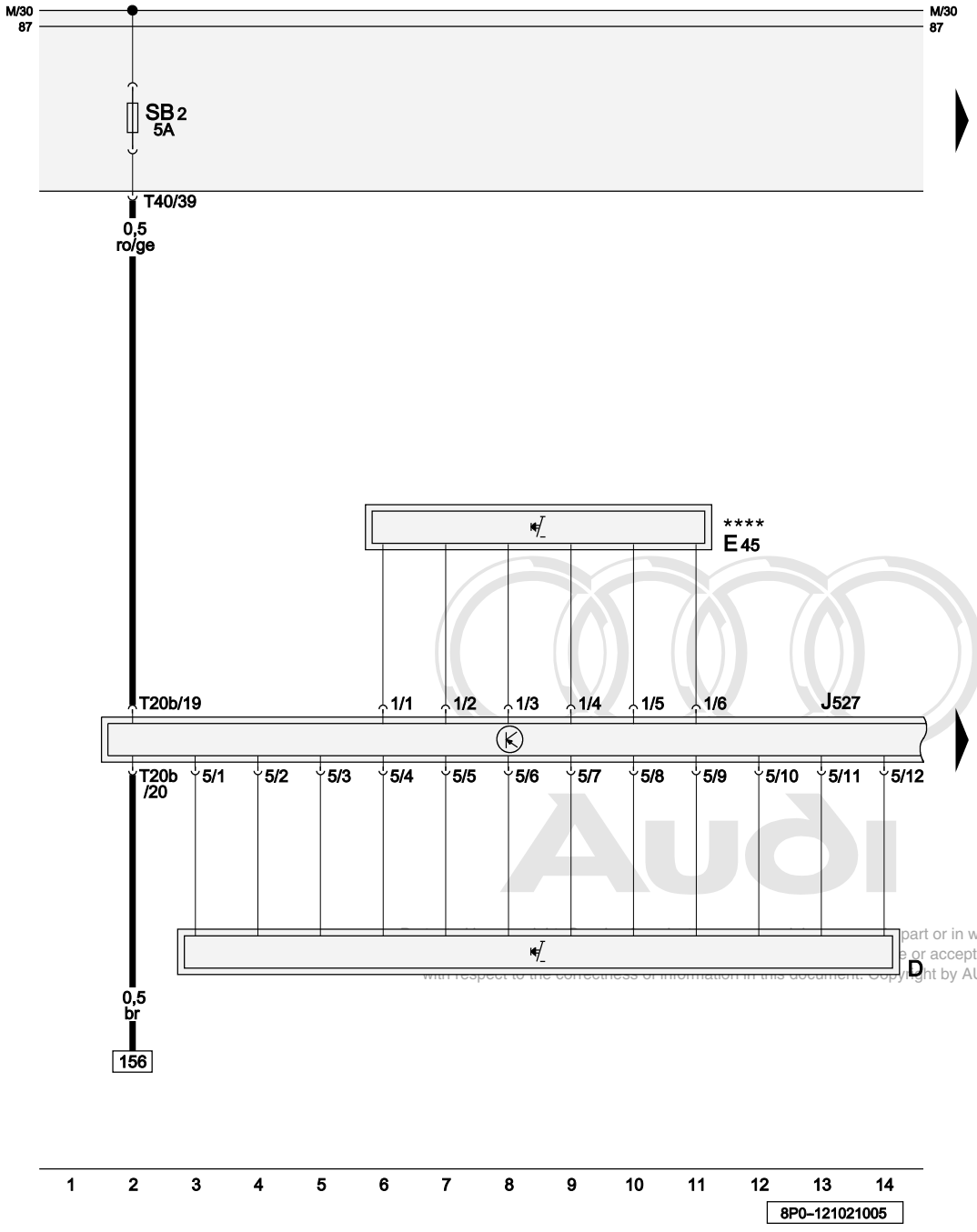
2.0 l - Diesel engine (103 kW - unit injectors - 4 cylinder), engine code BKD
from model year 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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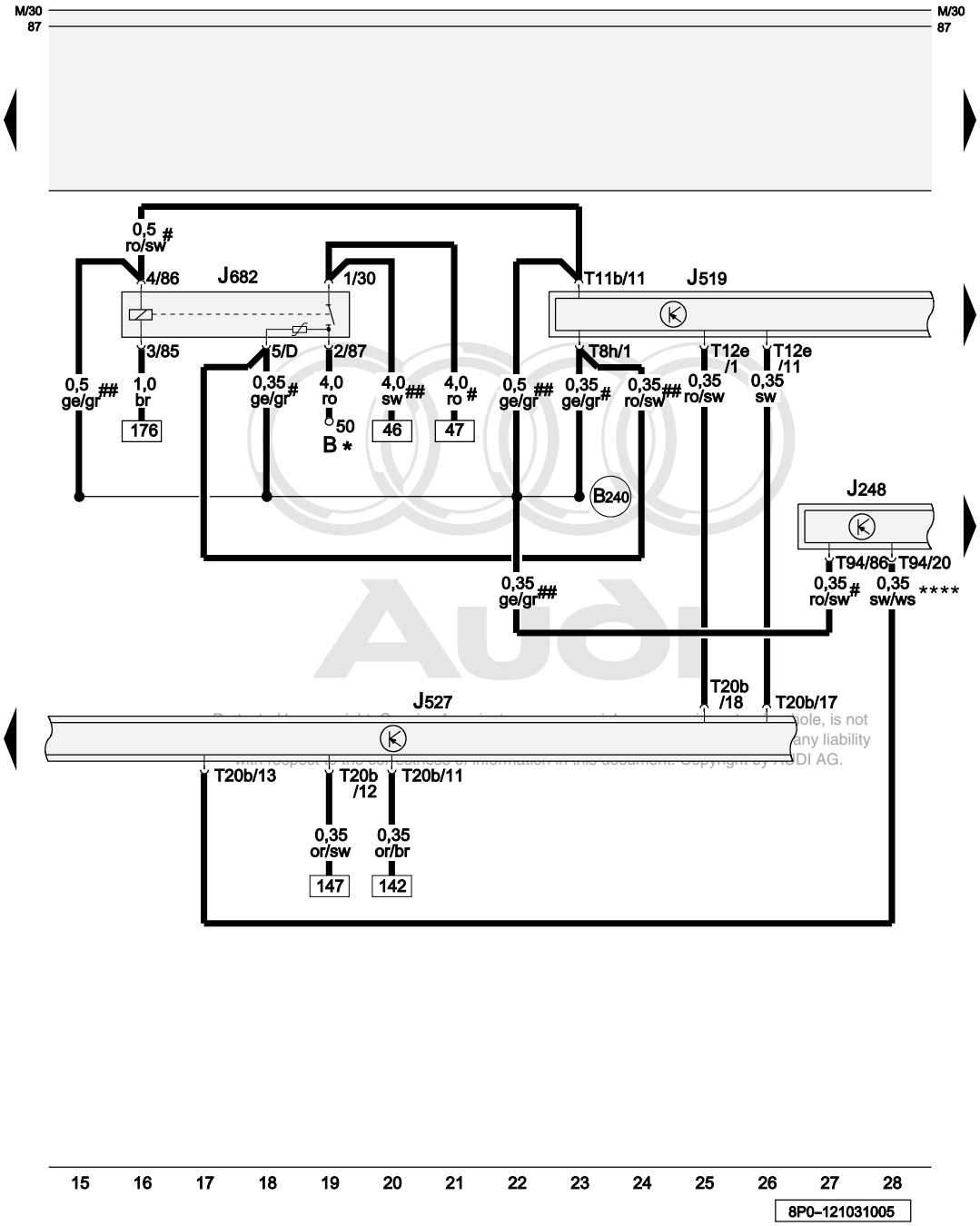


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Cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J527	Steering column electronics control unit
SB2	Fuse 2 on fuse holder B
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
****	for models with cruise control system only

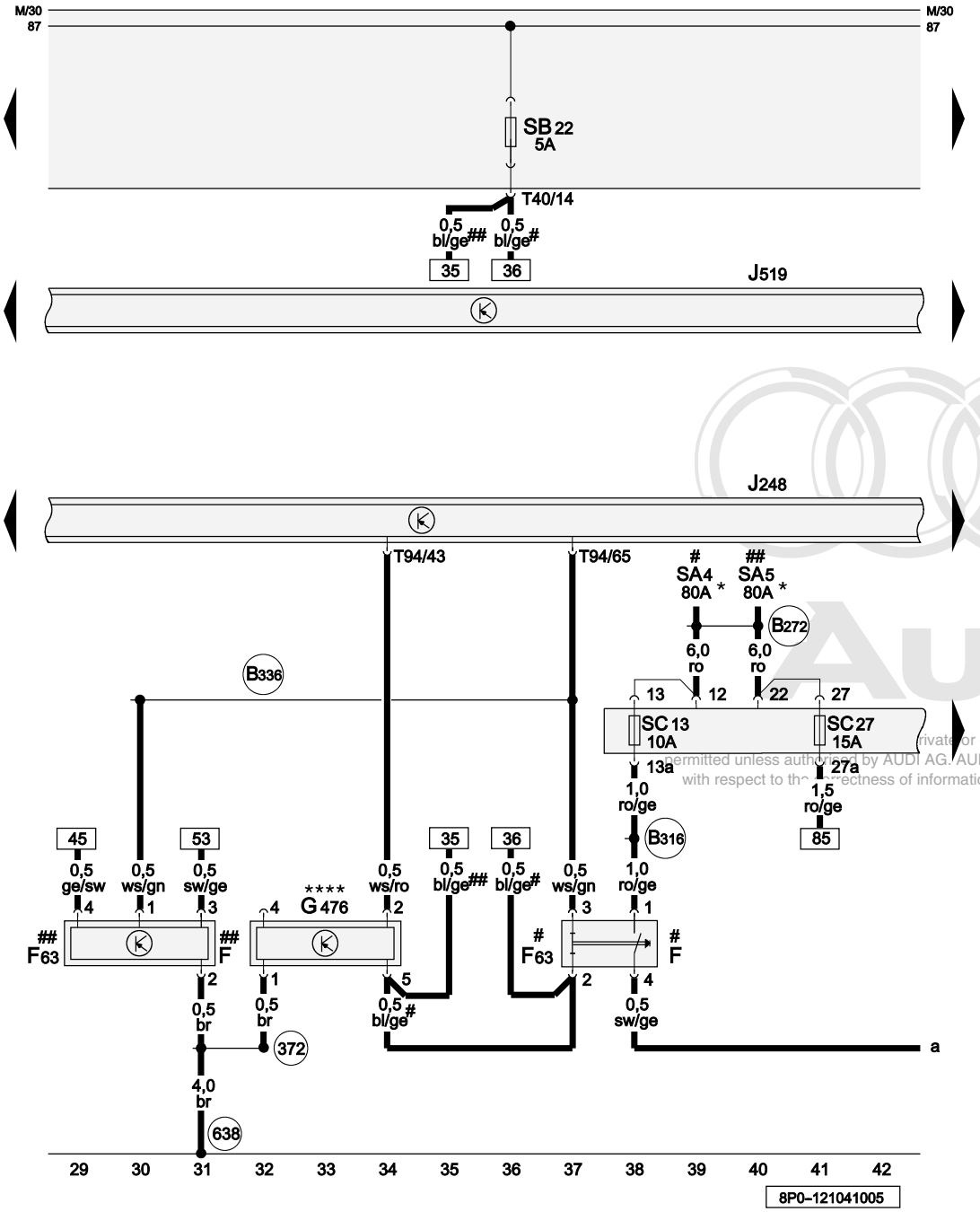


Terminal 50 voltage supply relay

B	Starter
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J682	Terminal 50 voltage supply relay
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B240	Positive connection 2 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
****	for models with cruise control system only
#	Is dropped from November 2005
##	applicable from November 2005

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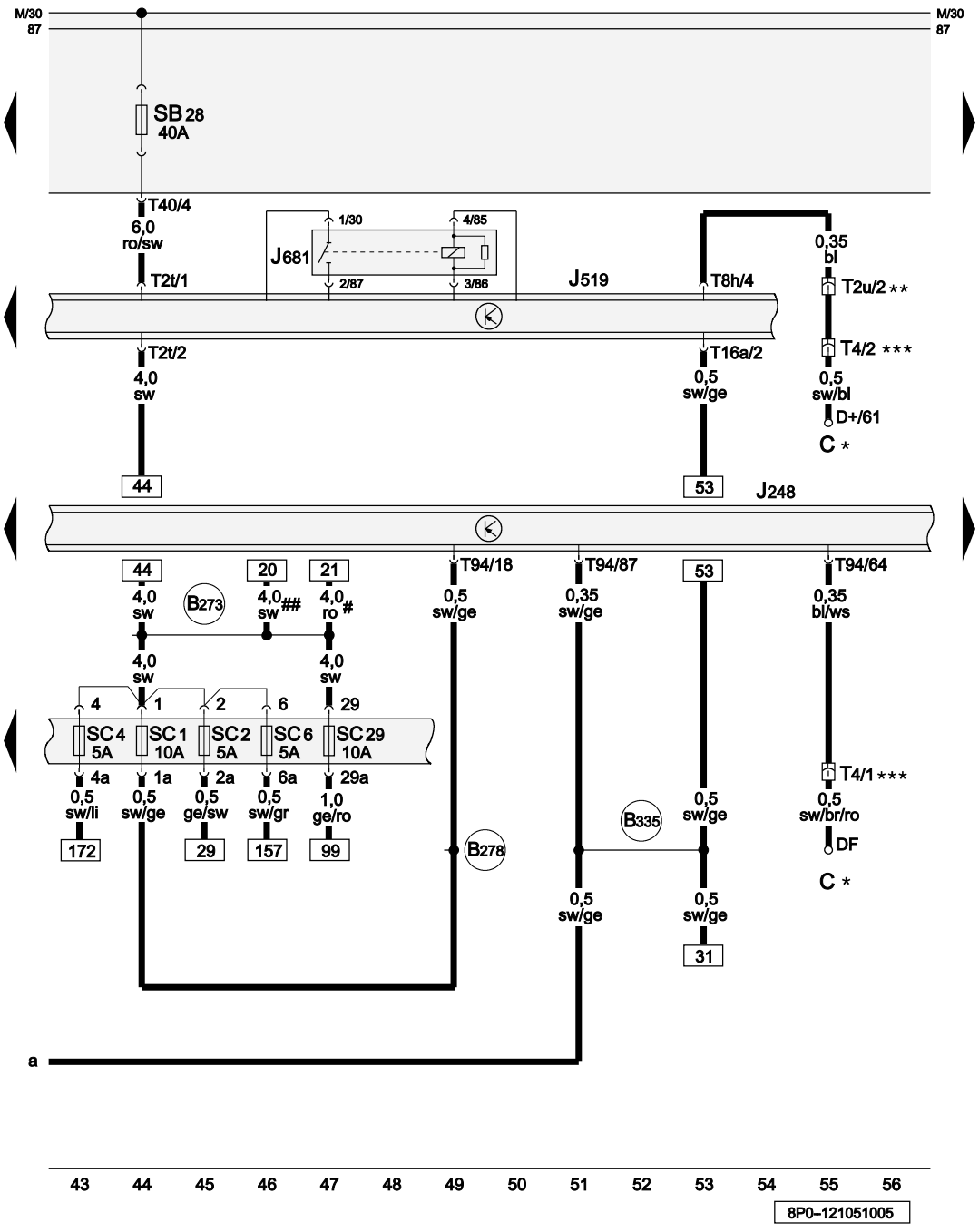


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Brake light switch, brake pedal switch, clutch position sender, fuses on fuse holder

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SB22	Fuse 22 on fuse holder B
SC13	Fuse 13 on fuse holder C
SC27	Fuse 27 on fuse holder C
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B272	Positive connection (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B336	Connection 2 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
****	for models with manual gearbox only
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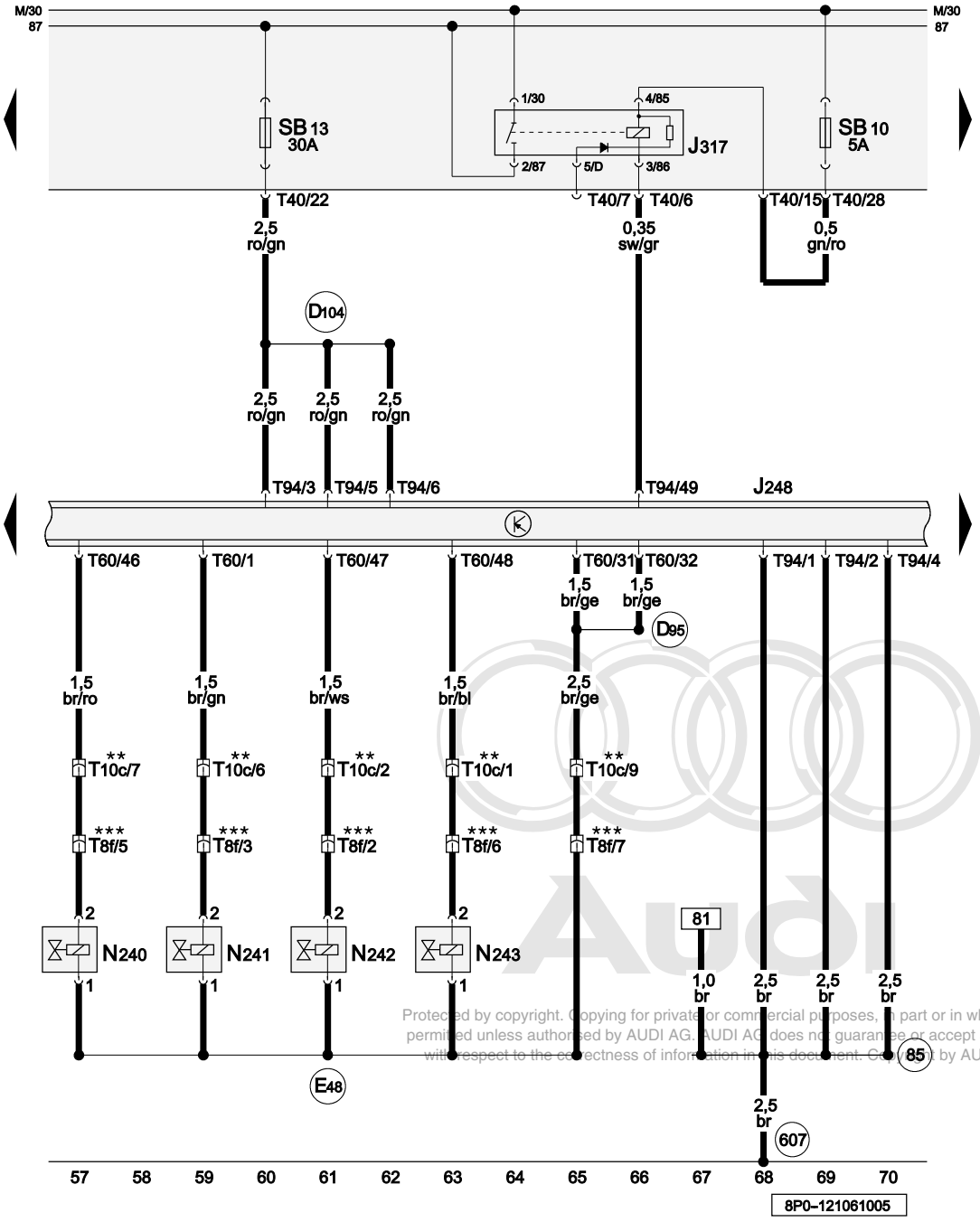


Fuses on fuse holder

C	Alternator
J248	Diesel direct injection system control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC6	Fuse 6 on fuse holder C
SC29	Fuse 29 on fuse holder C
T2t	2-pin connector, black (connector L)
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
#	Is dropped from November 2005
##	applicable from November 2005

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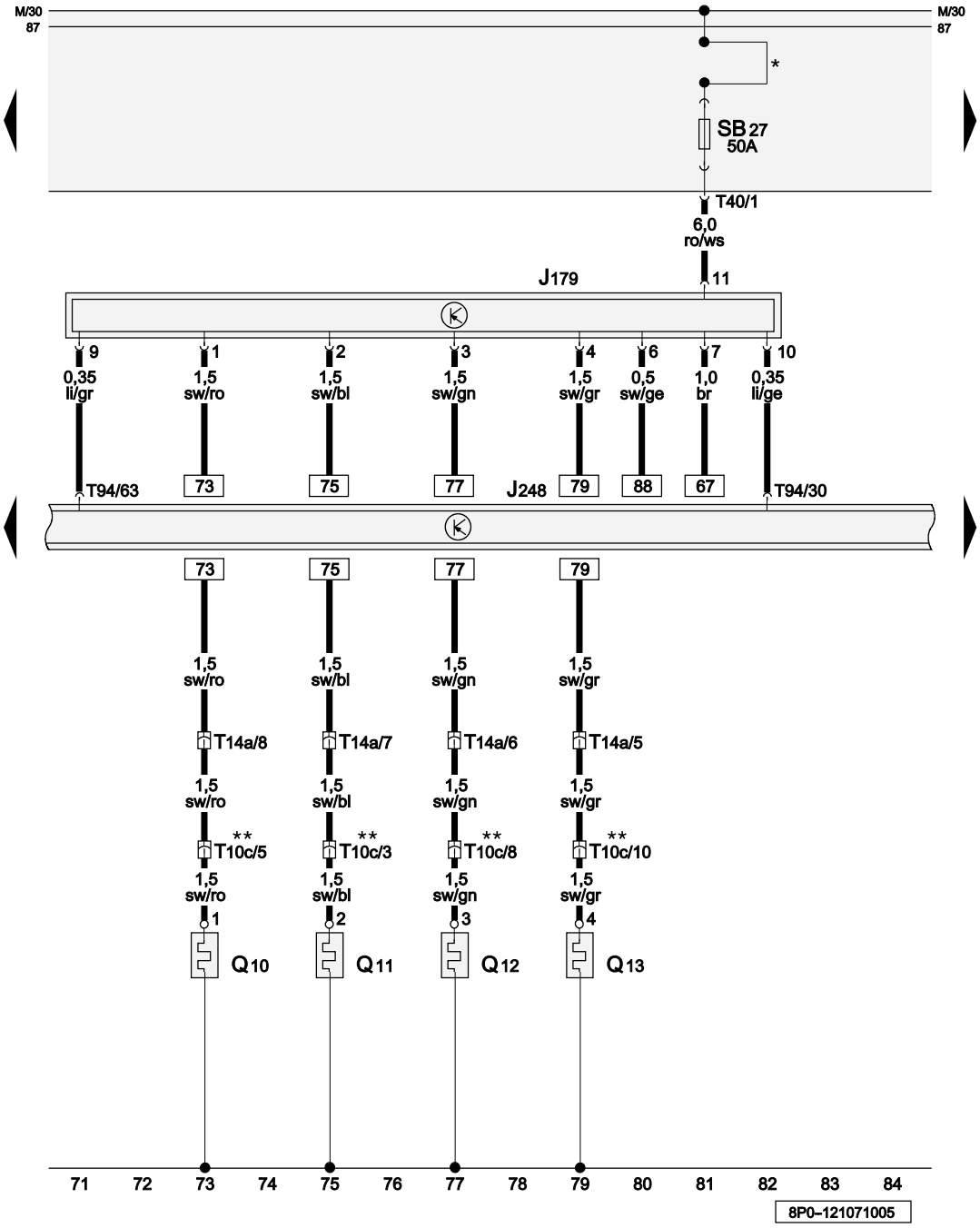


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Terminal 30 voltage supply relay, unit injector valves

J248	Diesel direct injection system control unit
J317	Terminal 30 voltage supply relay
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
T8f	8-connector, black, in engine compartment
T10c	10-pin connector, black, in engine compartment
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
85	Earth connection 1, in engine compartment wiring harness
607	Earth point, on left in plenum chamber
D95	Connection (injectors), in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness
**	not for models with engine code BKC
***	for models with engine code BKC only

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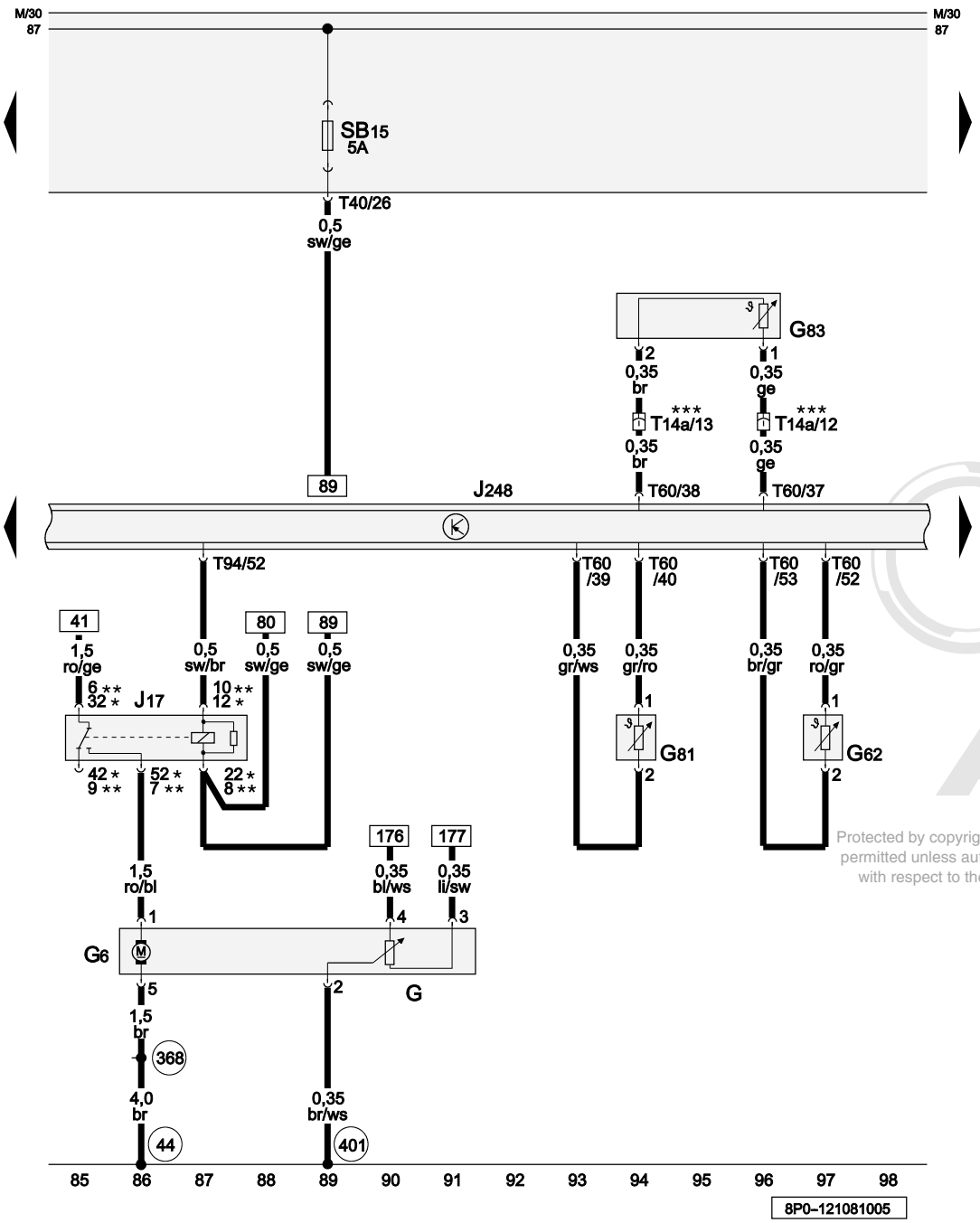


Glow plugs, automatic glow period control unit

J179	Automatic glow period control unit
J248	Diesel direct injection system control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
SB27	Fuse 27 on fuse holder B
T10c	10-pin connector, black, in engine compartment
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
*	electronics box, relay location 2 - bridge
**	not for models with engine code BKC

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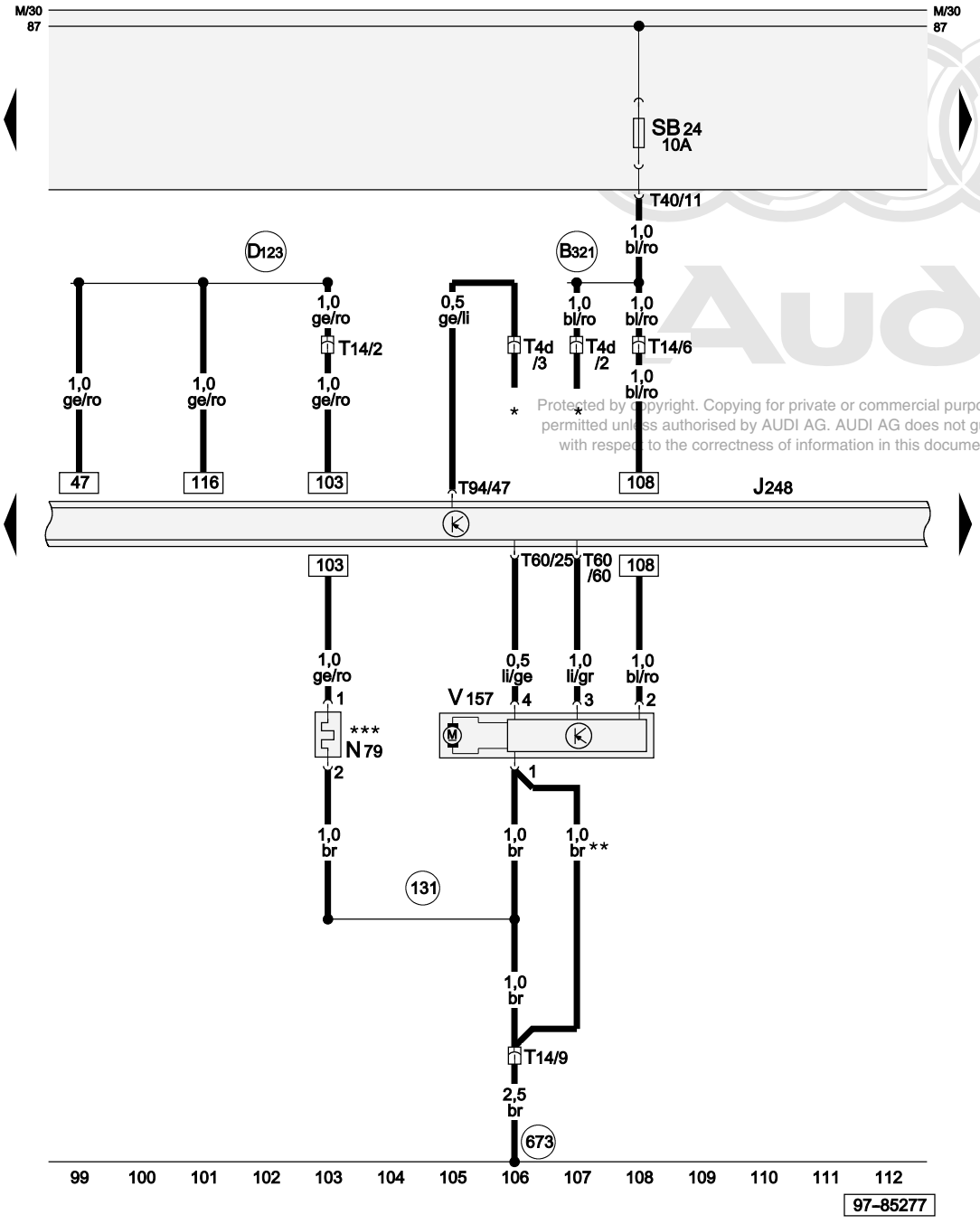


Fuel pump, temperature sender

G	Fuel gauge sender
G6	Fuel system pressurisation pump
G62	Coolant temperature sender
G81	Fuel temperature sender
G83	Radiator outlet coolant temperature sender
J17	Fuel pump relay
J248	Diesel direct injection system control unit
SB15	Fuse 15 on fuse holder B
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
*	No longer fitted, phased-in modification
**	phased-in modification
***	for models with engine code BKC only

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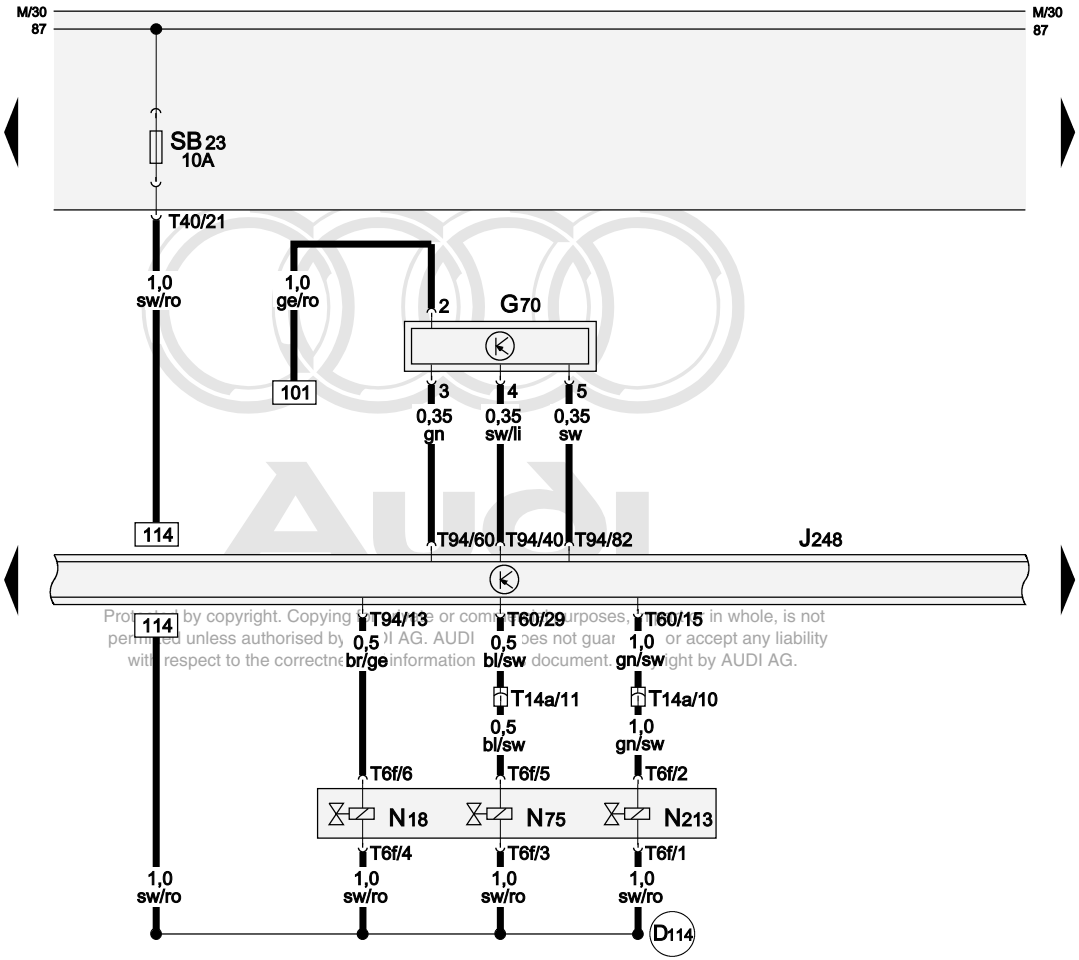
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Heater element for crankcase breather, intake manifold flap motor

J248	Diesel direct injection system control unit
N79	Heater element for crankcase breather
SB24	Fuse 24 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T14	14-pin connector, black, near longitudinal member, front left
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V157	Intake manifold flap motor
131	Earth connection 2, in engine compartment wiring harness
673	Earth point 3, on front of left longitudinal member
B321	Positive connection 7 (30a), in main wiring harness
D123	Connection 21, in engine compartment wiring harness

* ⇒ applicable Current Flow Diagram: radiator fan
** for models without heater element only
*** for models with heater element only



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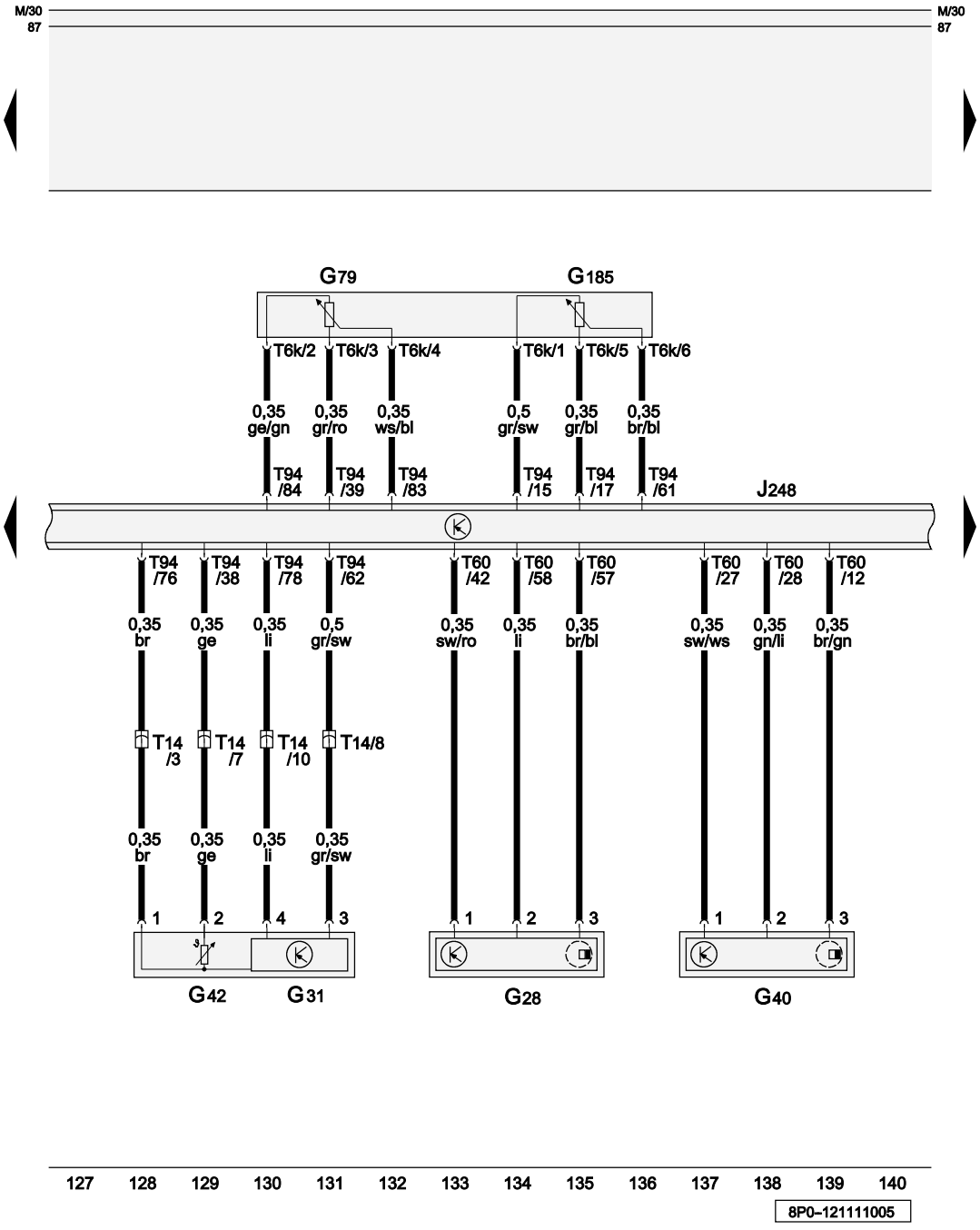
113 114 115 116 117 118 119 120 121 122 123 124 125 126

97-85278

Air mass meter, exhaust gas recirculation valve, charge pressure control solenoid valve

G70	Air mass meter
J248	Diesel direct injection system control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N213	Exhaust gas recirculation valve 2
SB23	Fuse 23 on fuse holder B
T6f	6-pin connector, black, on valve block
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D114	Connection 12, in engine compartment wiring harness

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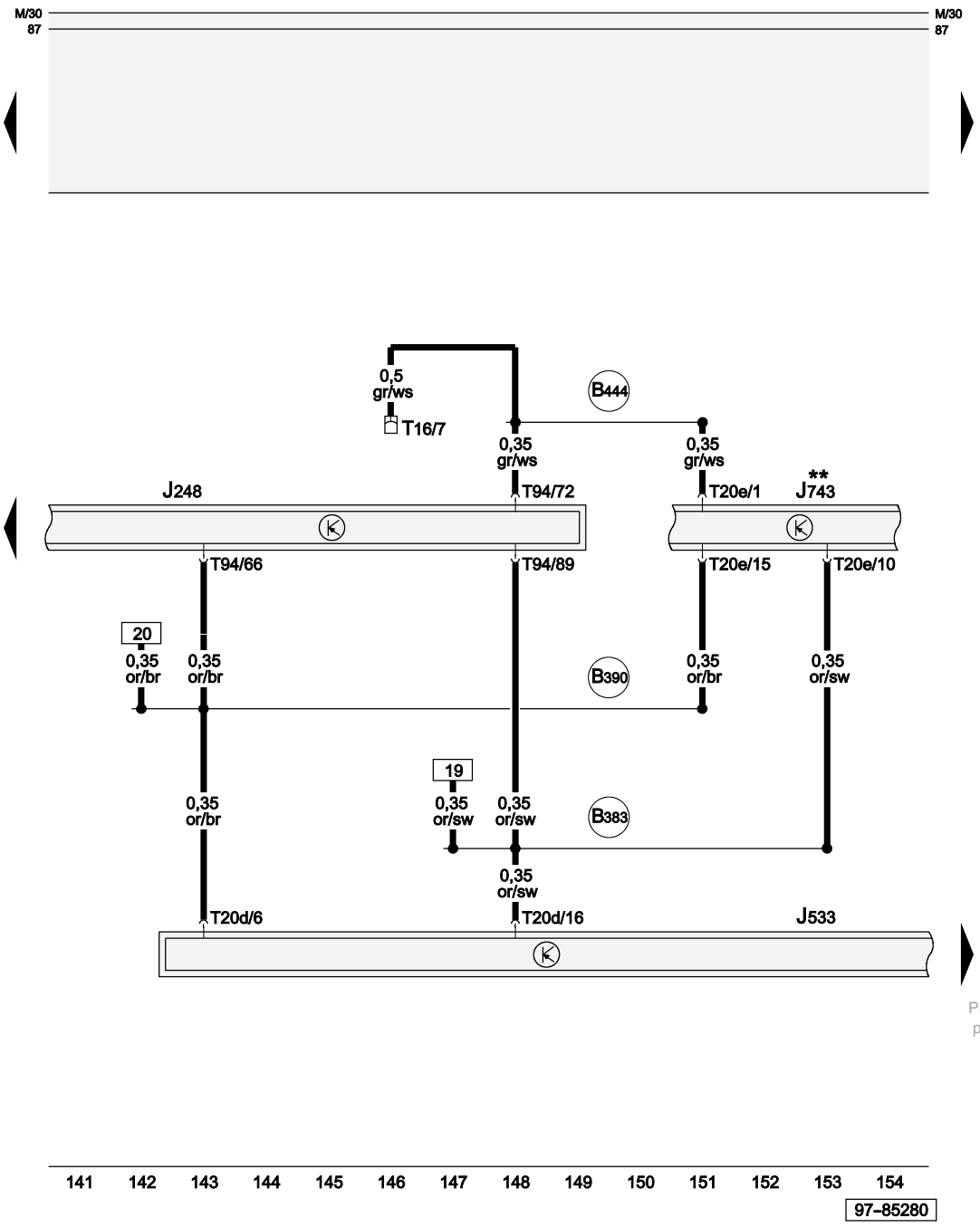


Charge air pressure sender, engine speed sender, hall sender

G28	Engine speed sender
G31	Charge air pressure sender
G40	Hall sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J248	Diesel direct injection system control unit
T6k	6-pin connector, black, near accelerator position sender
T14	14-pin connector, black, near longitudinal member, front left
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)

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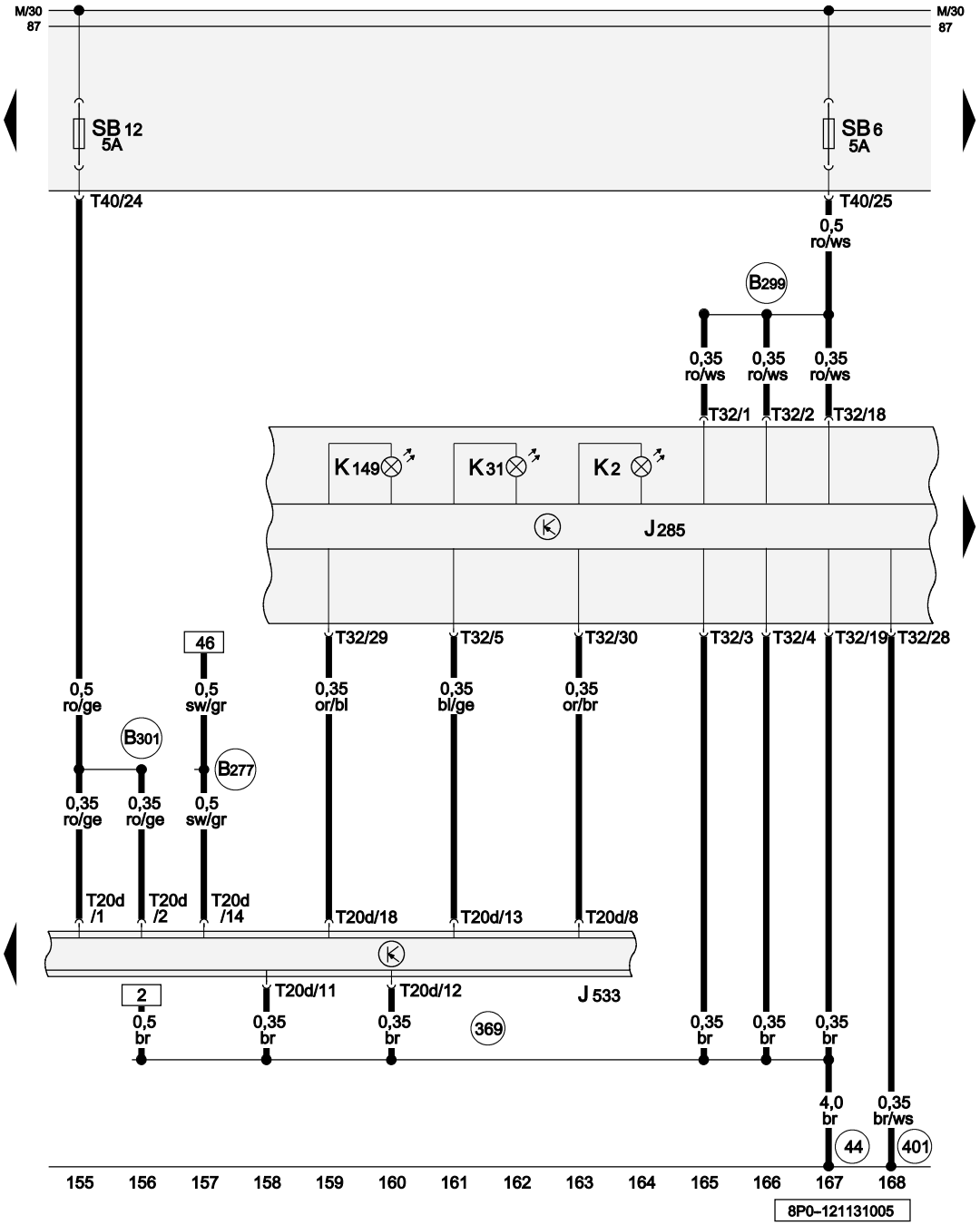


Drive train CAN bus, diagnosis

J248	Diesel direct injection system control unit
J533	Data bus diagnostic interface
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
**	for models with direct shift gearbox (02E) only

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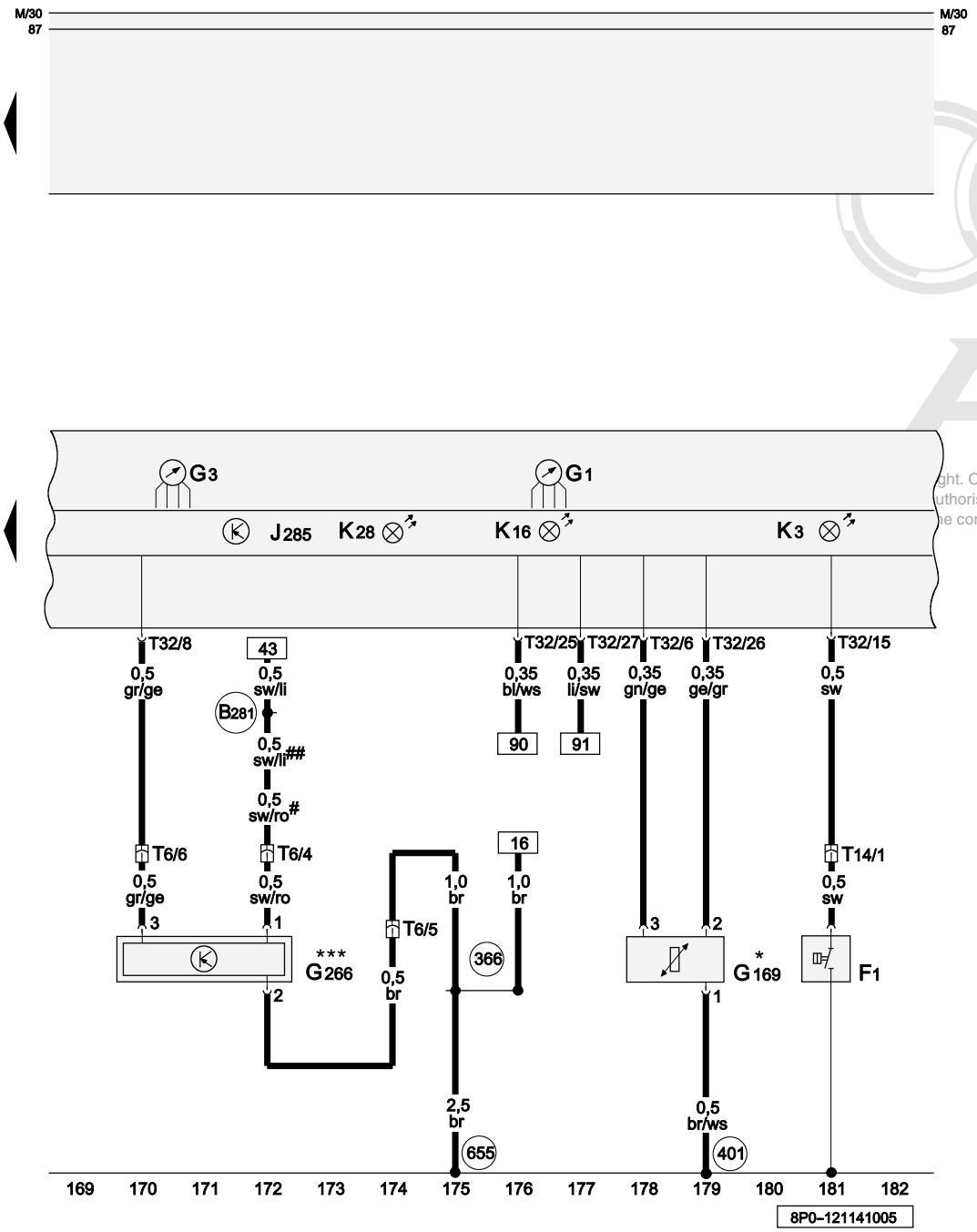


Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB6	Fuse 6 on fuse holder B
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G169	Fuel gauge sender 2
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
655	Earth point, on left headlight
B281	Positive connection 5 (15a), in main wiring harness

* for models with four-wheel drive only
*** for models with extended servicing intervals (ESI) only
\# No longer fitted, phased-in modification
phased-in modification

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2.0 l - Diesel engine (103 kW - unit injectors - 4 cylinder), engine code BMM

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

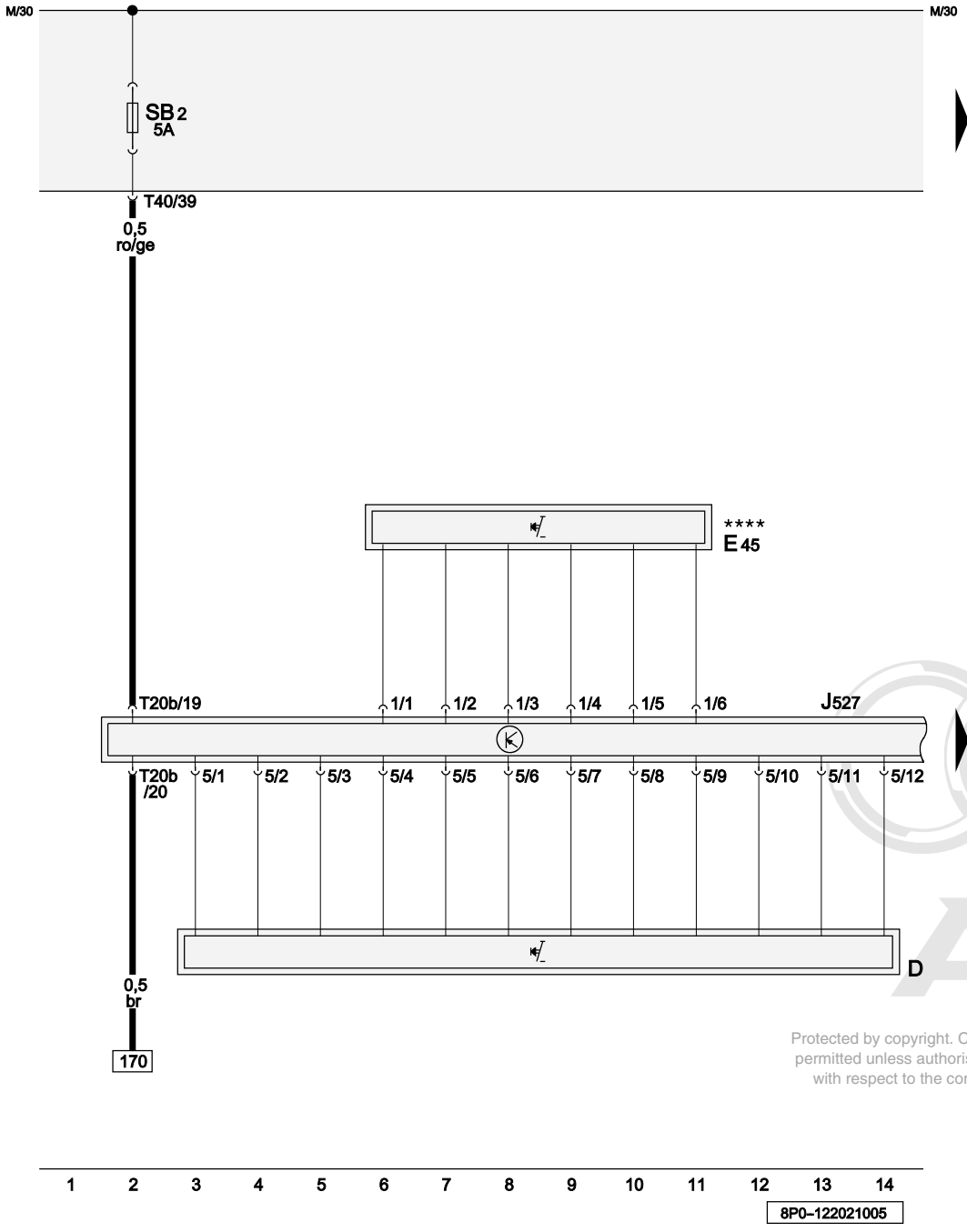
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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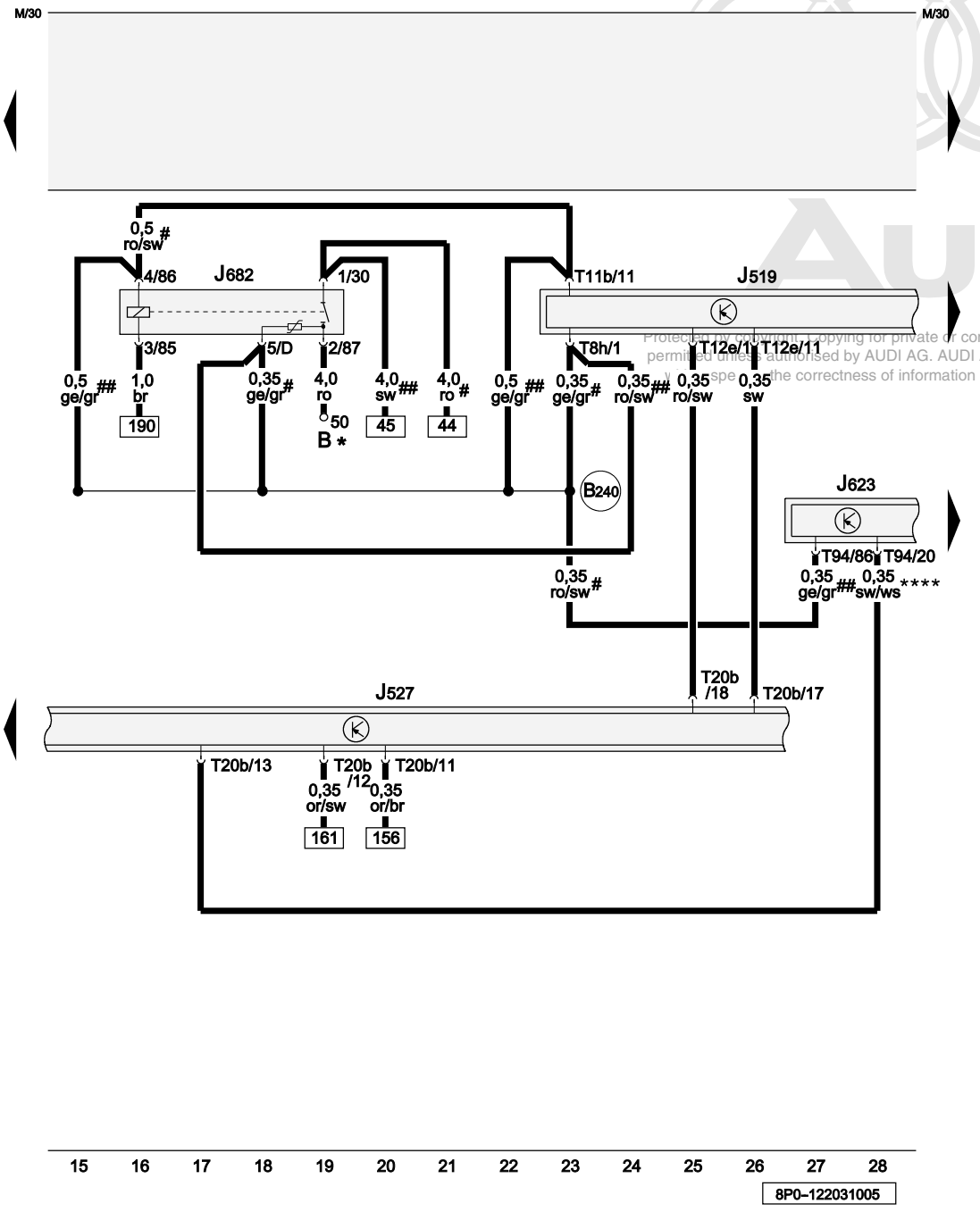


Cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J527	Steering column electronics control unit
SB2	Fuse 2 on fuse holder B
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
****	for models with cruise control system only

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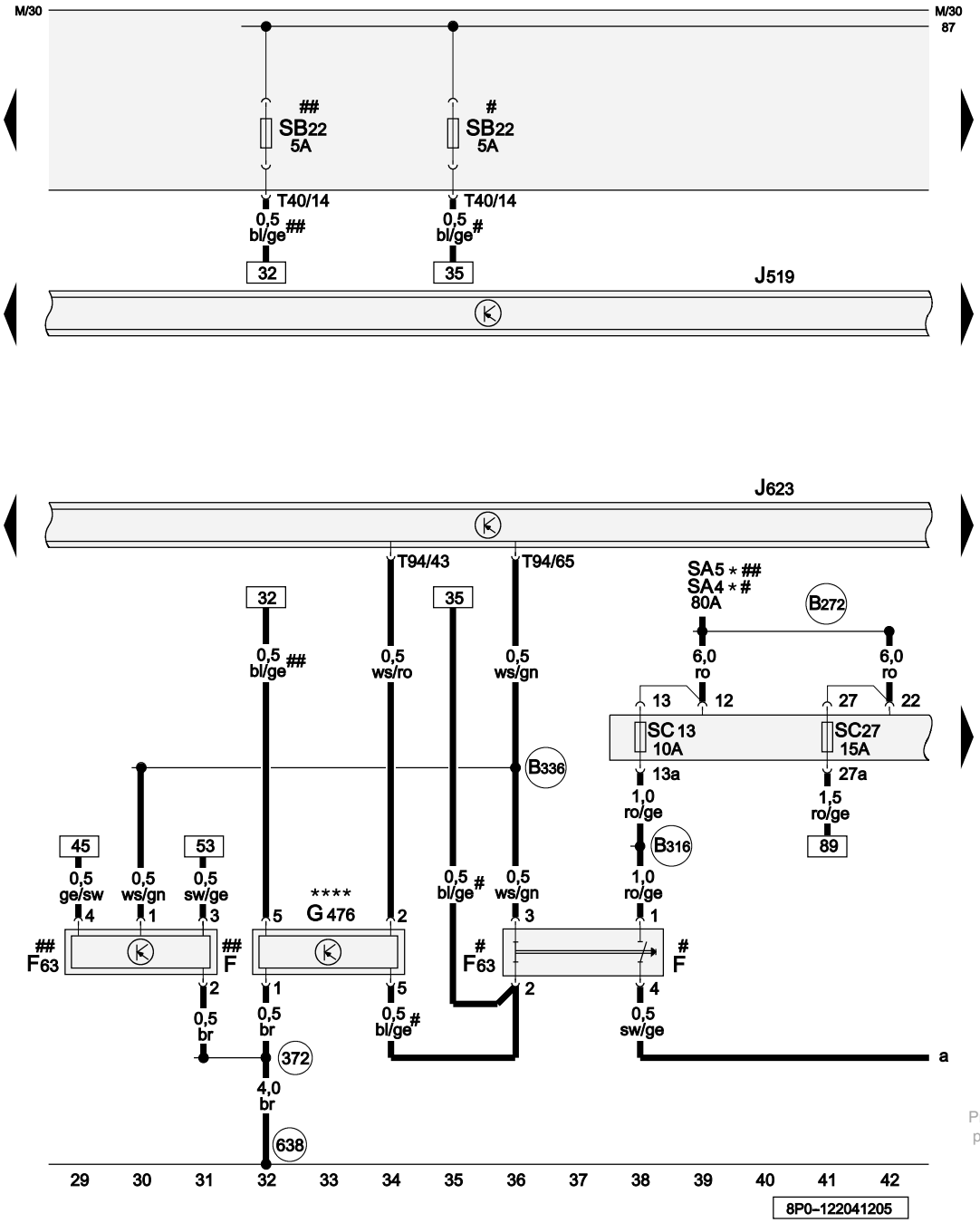


Terminal 50 voltage supply relay

B	Starter
J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B240	Positive connection 2 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
****	for models with cruise control system only
#	is dropped from November 2005
##	applicable from November 2005

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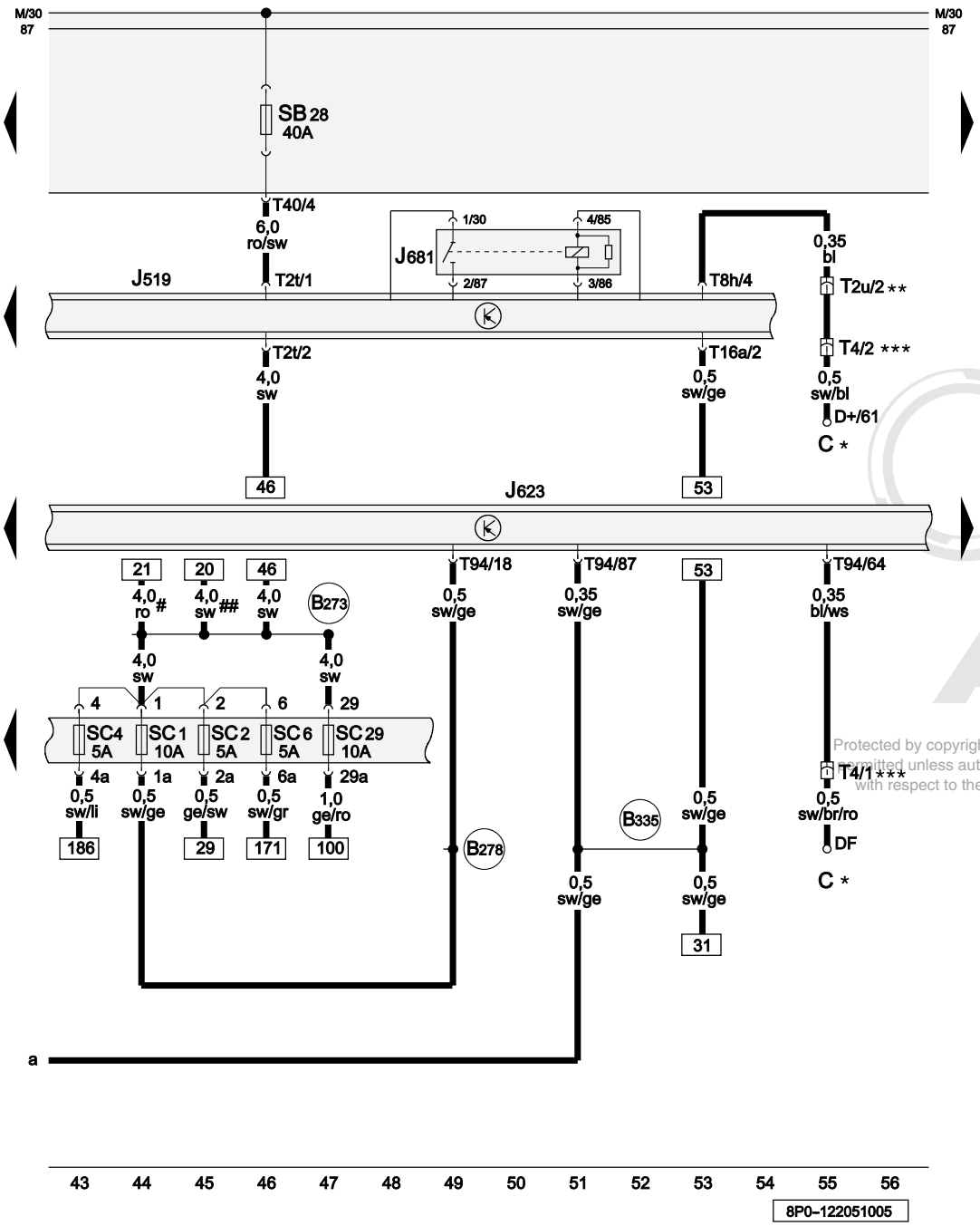


Brake light switch, brake pedal switch, clutch position sender, fuses on fuse holder

F	Brake light switch
F63	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J623	Engine control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SB22	Fuse 22 on fuse holder B
SC13	Fuse 13 on fuse holder C
SC27	Fuse 27 on fuse holder C
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B272	Positive connection (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B336	Connection 2 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
****	for models with manual gearbox only
#	is dropped from November 2005
##	applicable from November 2005

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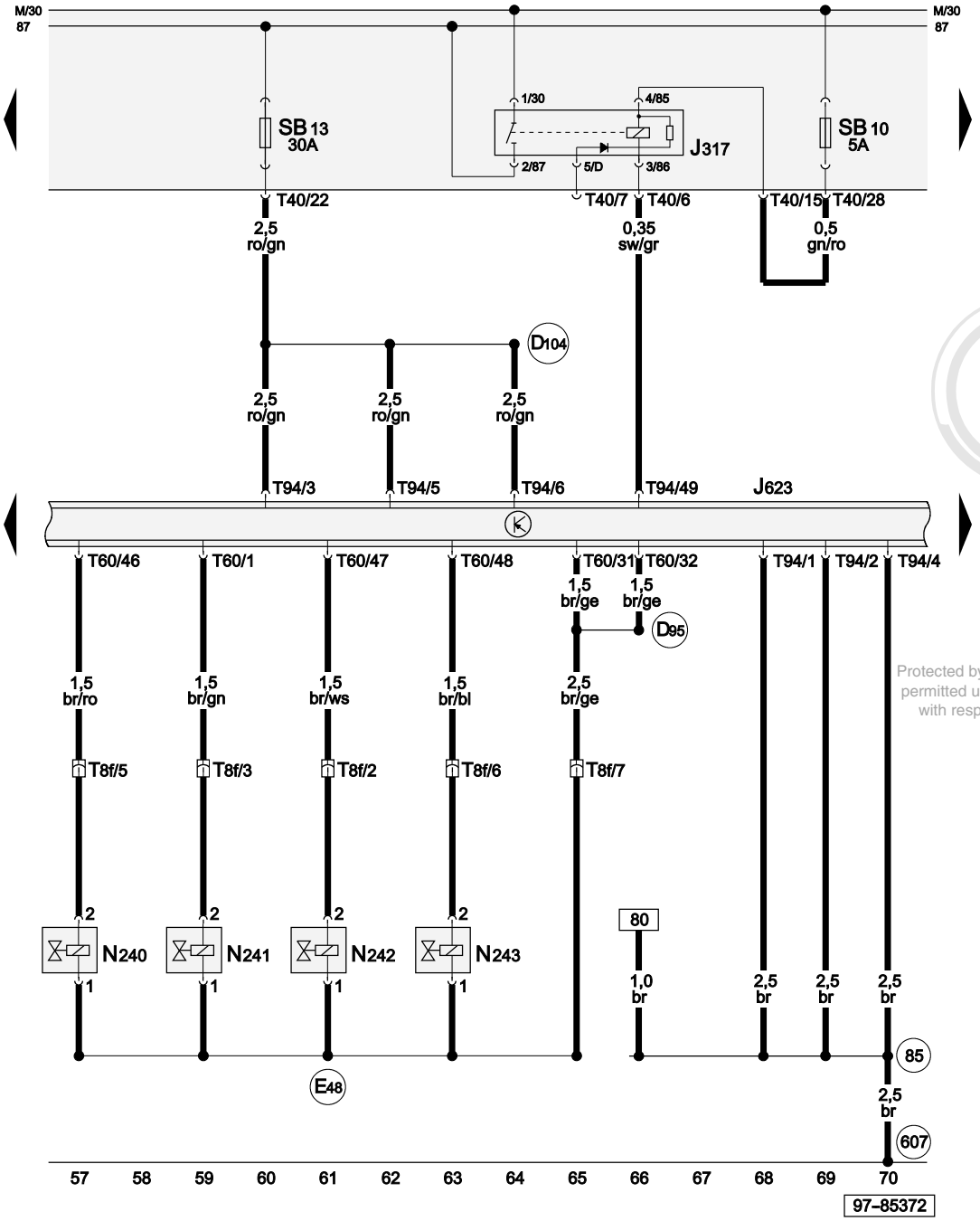


Fuses on fuse holder

C	Alternator
J519	Onboard supply control unit
J623	Engine control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC6	Fuse 6 on fuse holder C
SC29	Fuse 29 on fuse holder C
T2u	2-pin connector, brown, in front left engine compartment
T2t	2-pin connector, black (connector L)
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only
#	is dropped from November 2005
##	applicable from November 2005

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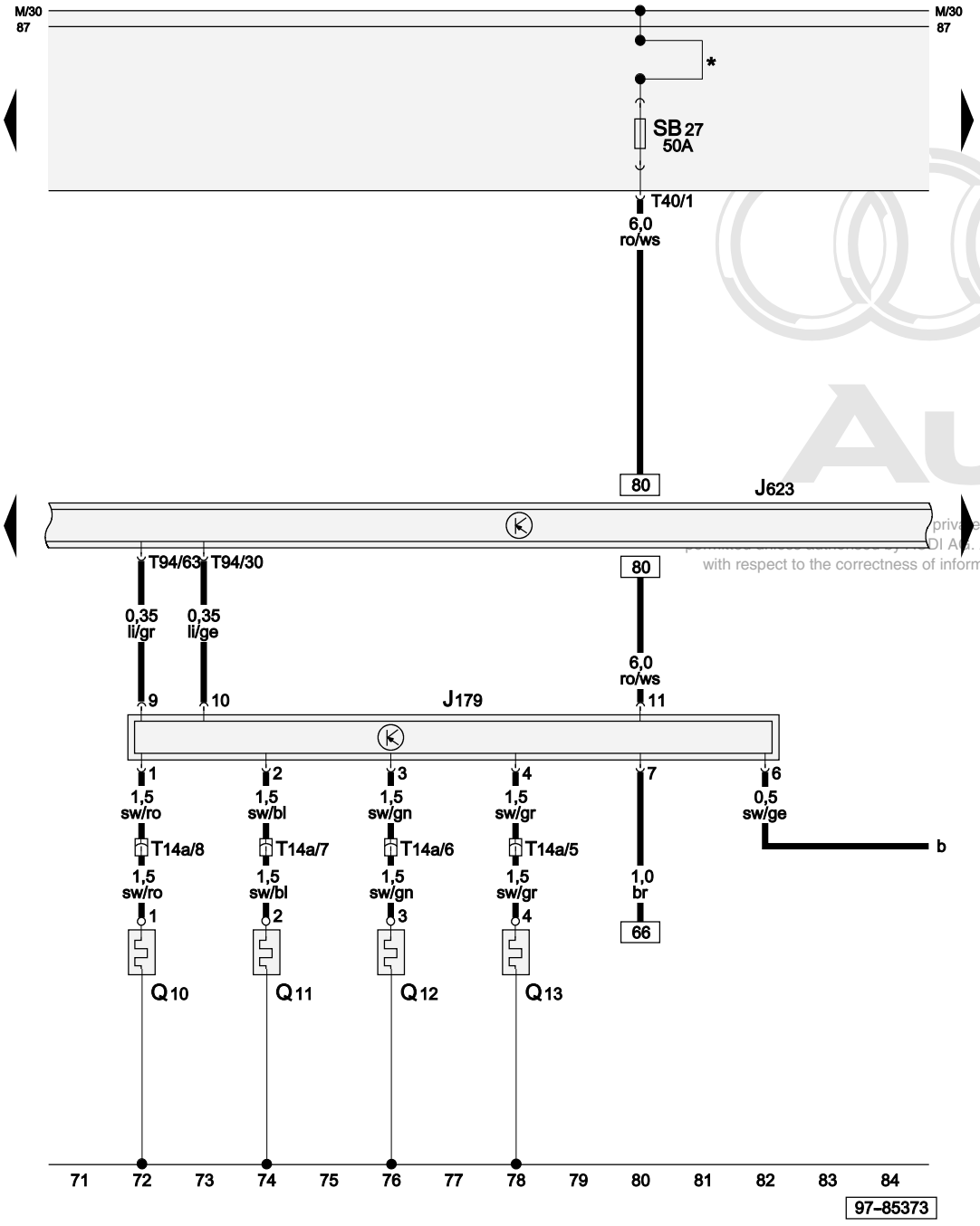


Terminal 30 voltage supply relay, unit injector valves

J317	Terminal 30 voltage supply relay
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
T8f	8-connector, black, in engine compartment
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
85	Earth connection 1, in engine compartment wiring harness
607	Earth point, on left in plenum chamber
D95	Connection (injectors), in engine compartment wiring harness
D104	Positive connection 2 (30a), in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

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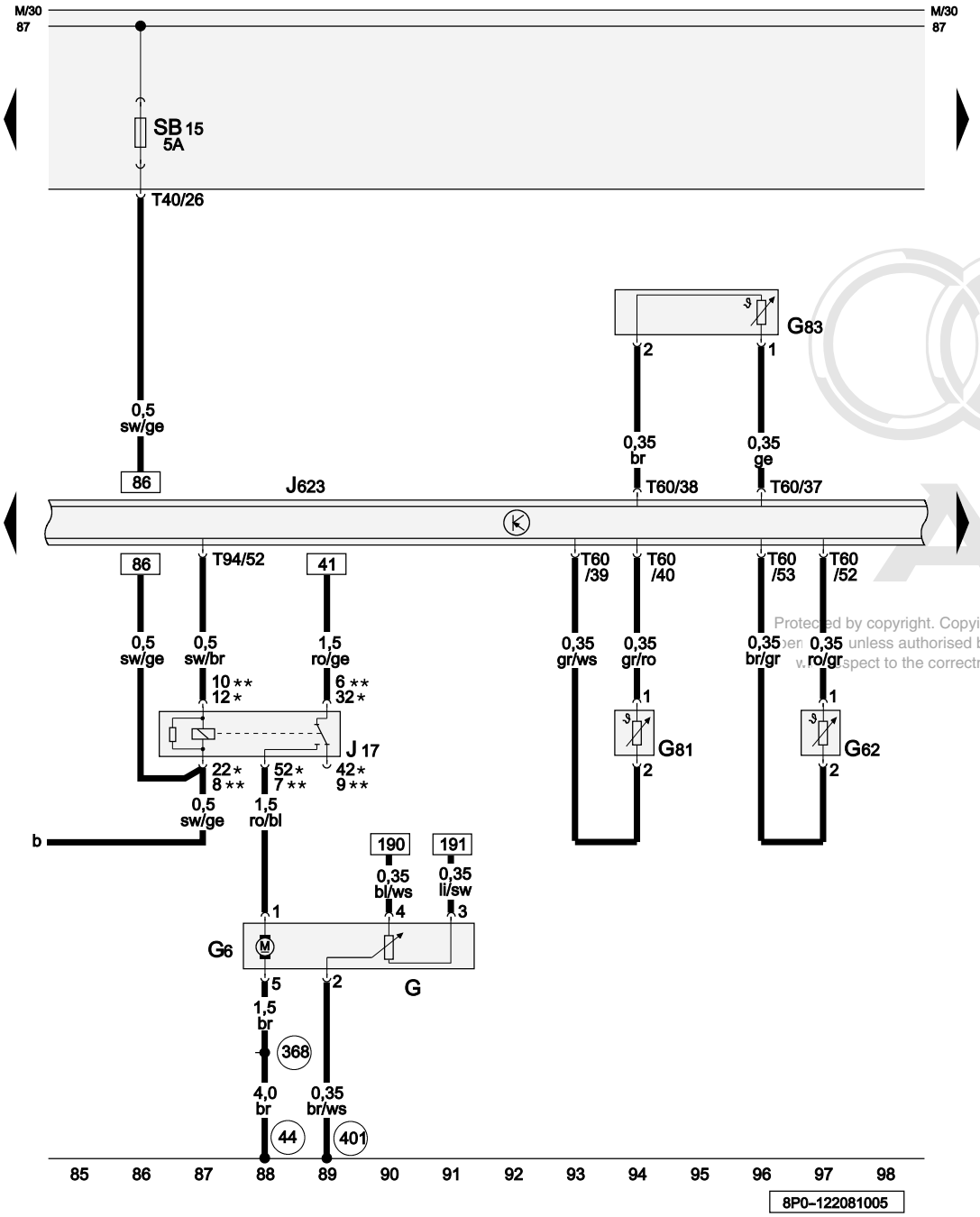
Glow plugs, automatic glow period control unit

J179	Automatic glow period control unit
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
SB27	Fuse 27 on fuse holder B
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
*	electronics box, relay location 2 - bridge

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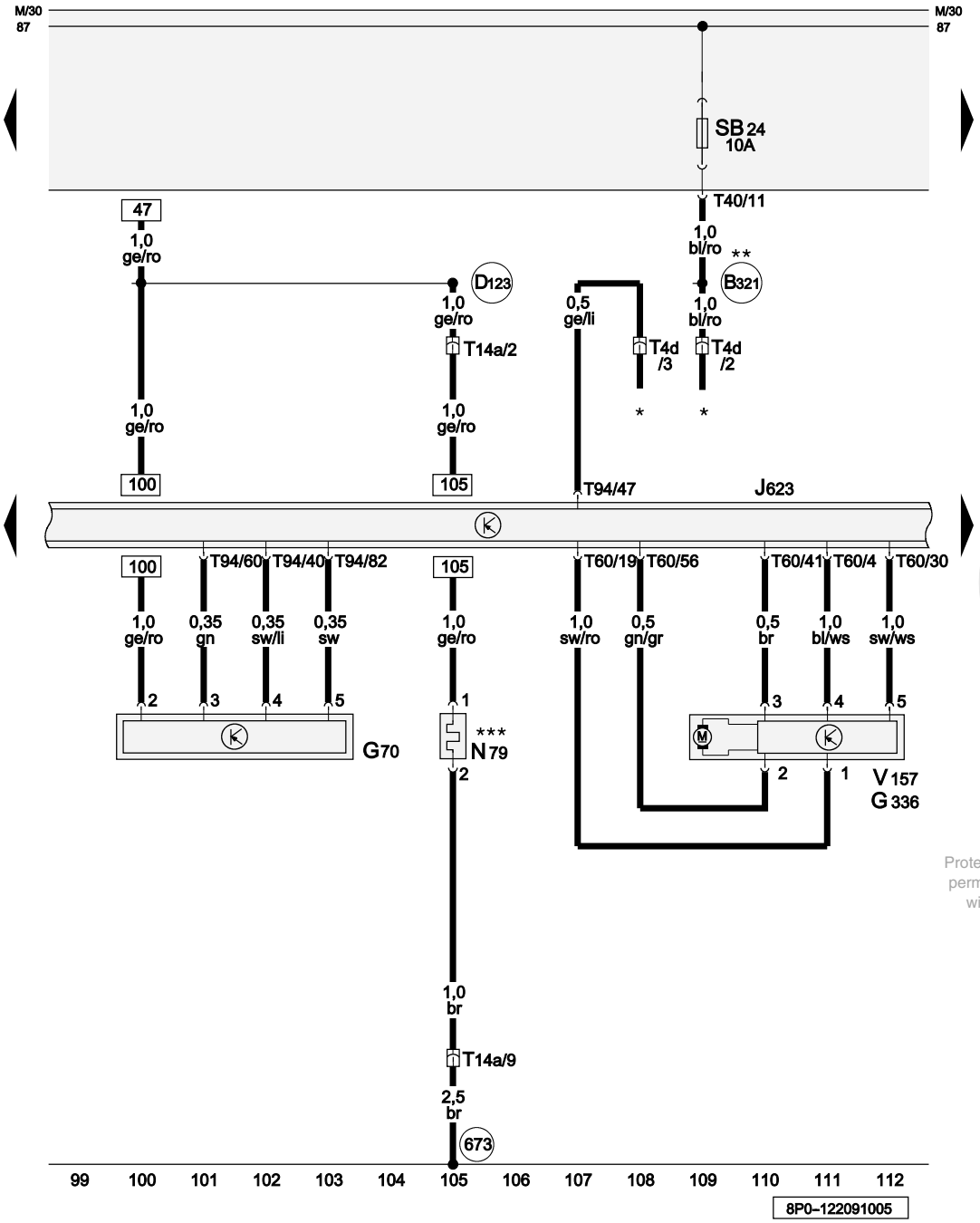


Fuel pump, temperature sender

G	Fuel gauge sender
G6	Fuel system pressurisation pump
G62	Coolant temperature sender
G81	Fuel temperature sender
G83	Radiator outlet coolant temperature sender
J17	Fuel pump relay
J623	Engine control unit
SB15	Fuse 15 on fuse holder B
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
*	No longer fitted, phased-in modification
**	phased-in modification

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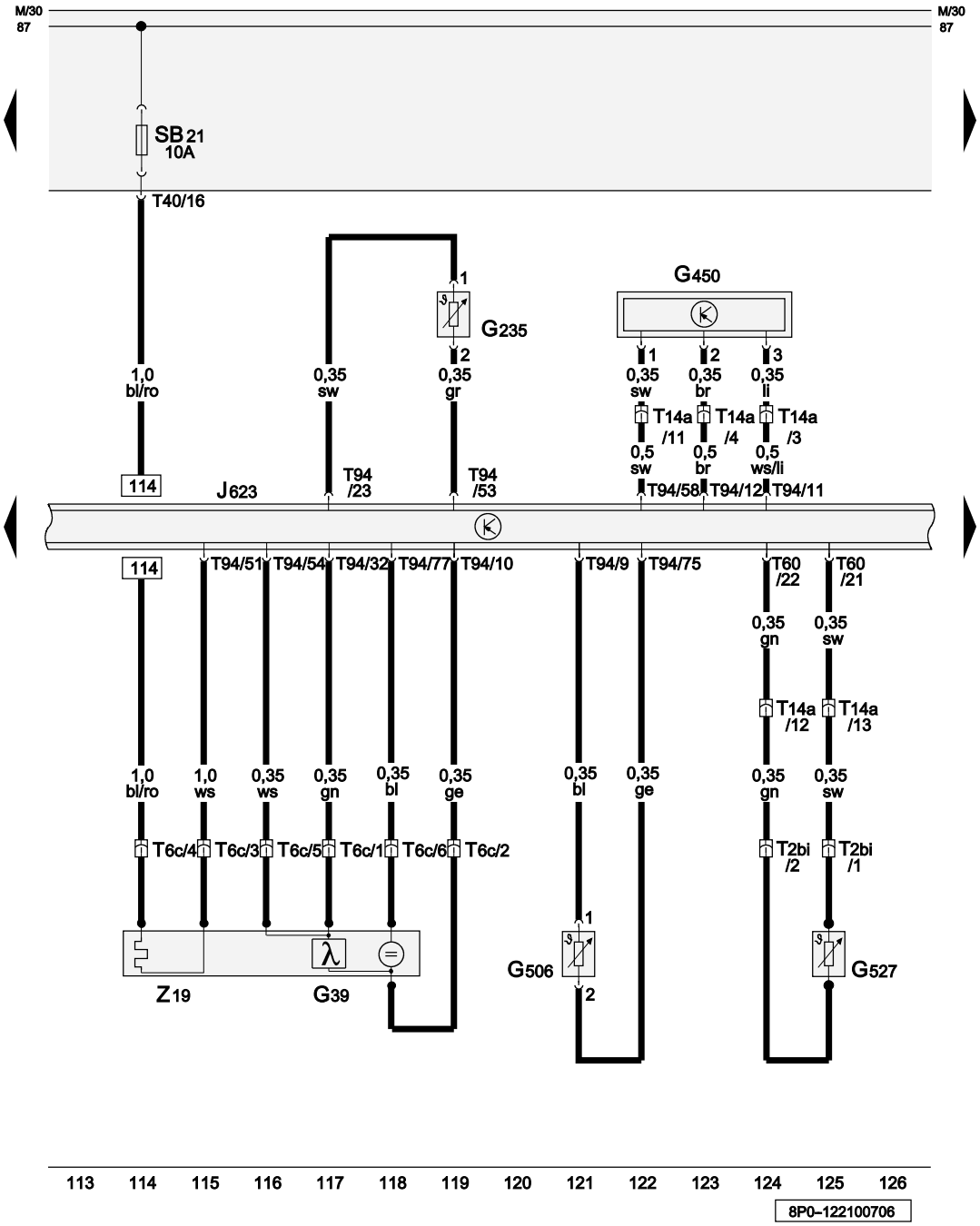


Heater element for crankcase breather, intake manifold flap motor, air mass meter

G70	Air mass meter
G336	Intake manifold flap potentiometer
J623	Engine control unit
N79	Heater element for crankcase breather
SB24	Fuse 24 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V157	Intake manifold flap motor
673	Earth point 3, on front of left longitudinal member
B321	Positive connection 7 (30a), in main wiring harness
D123	Connection 21, in engine compartment wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan control
**	No longer fitted, phased-in modification
***	for models with heater element only

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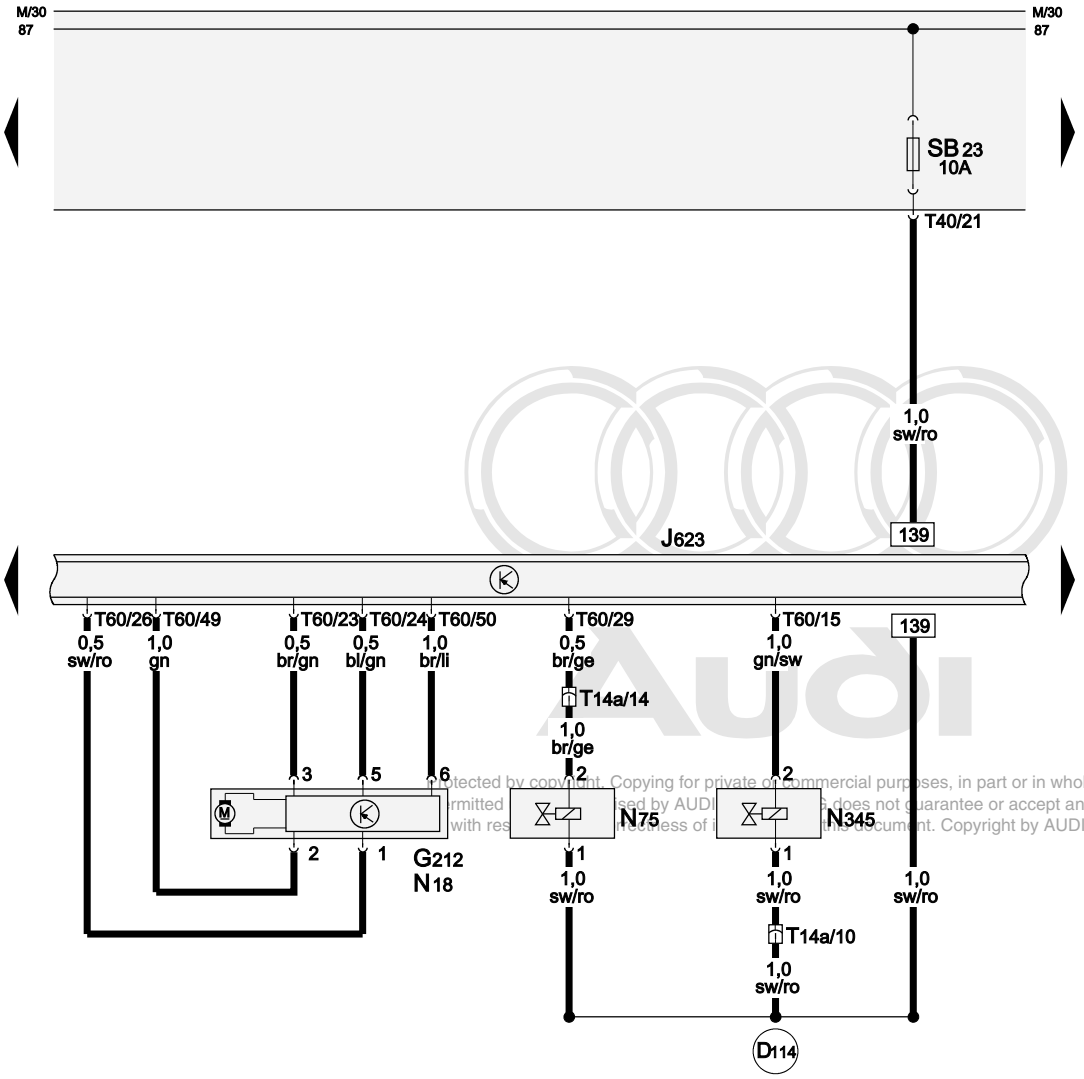


Lambda probe, exhaust gas pressure sensor 1, temperature sensor

G39	Lambda probe
G235	Exhaust gas temperature sender 1
G450	Exhaust gas pressure sensor 1
G506	Temperature sender before particulate filter
G527	Temperature sender after particulate filter
J623	Engine control unit
SB21	Fuse 21 on fuse holder B
T2bi	2-pin connector, orange
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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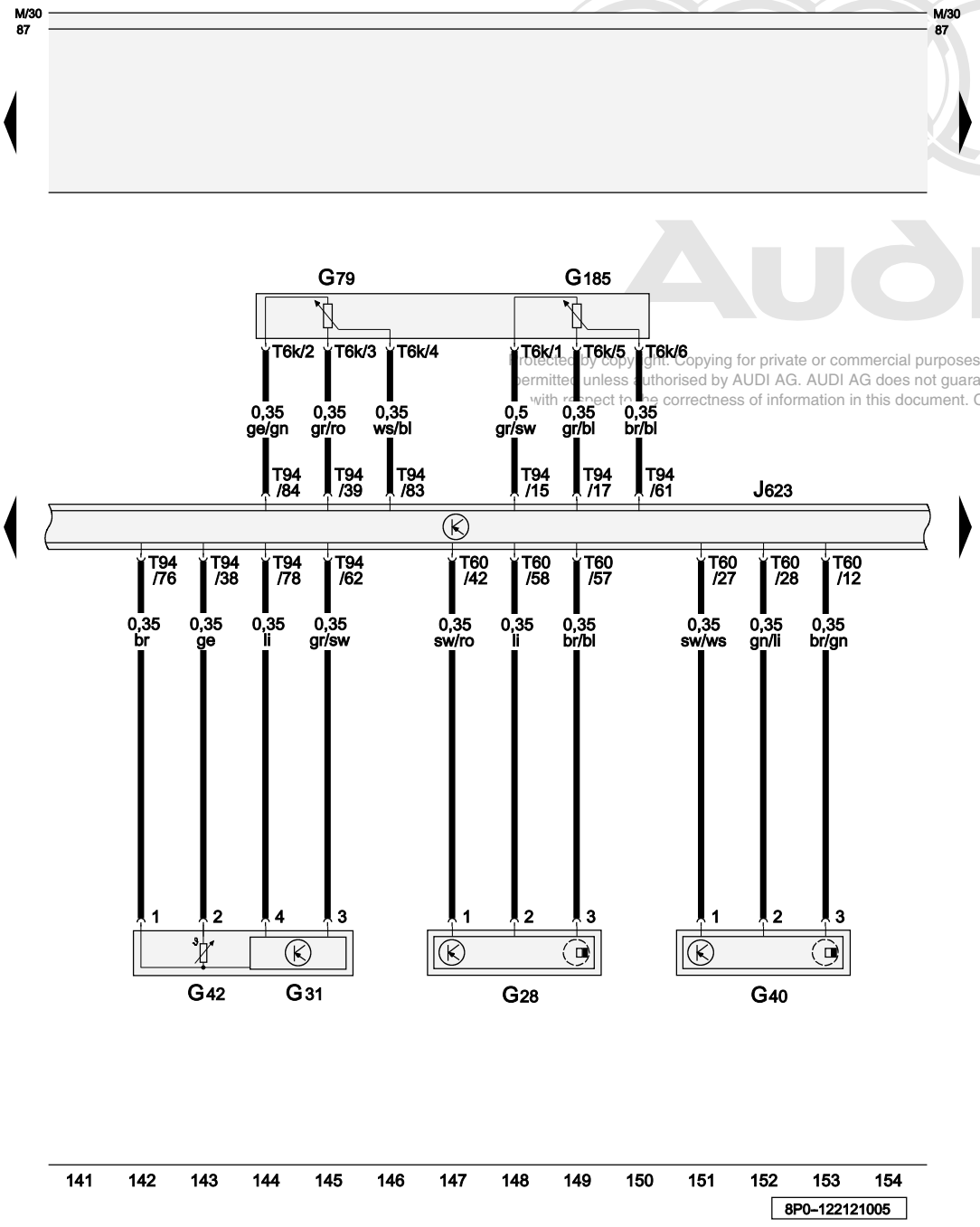


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Solenoid valves

G212	Exhaust gas recirculation potentiometer
J623	Engine control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler change-over valve
SB23	Fuse 23 on fuse holder B
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
(D114)	Connection 12, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

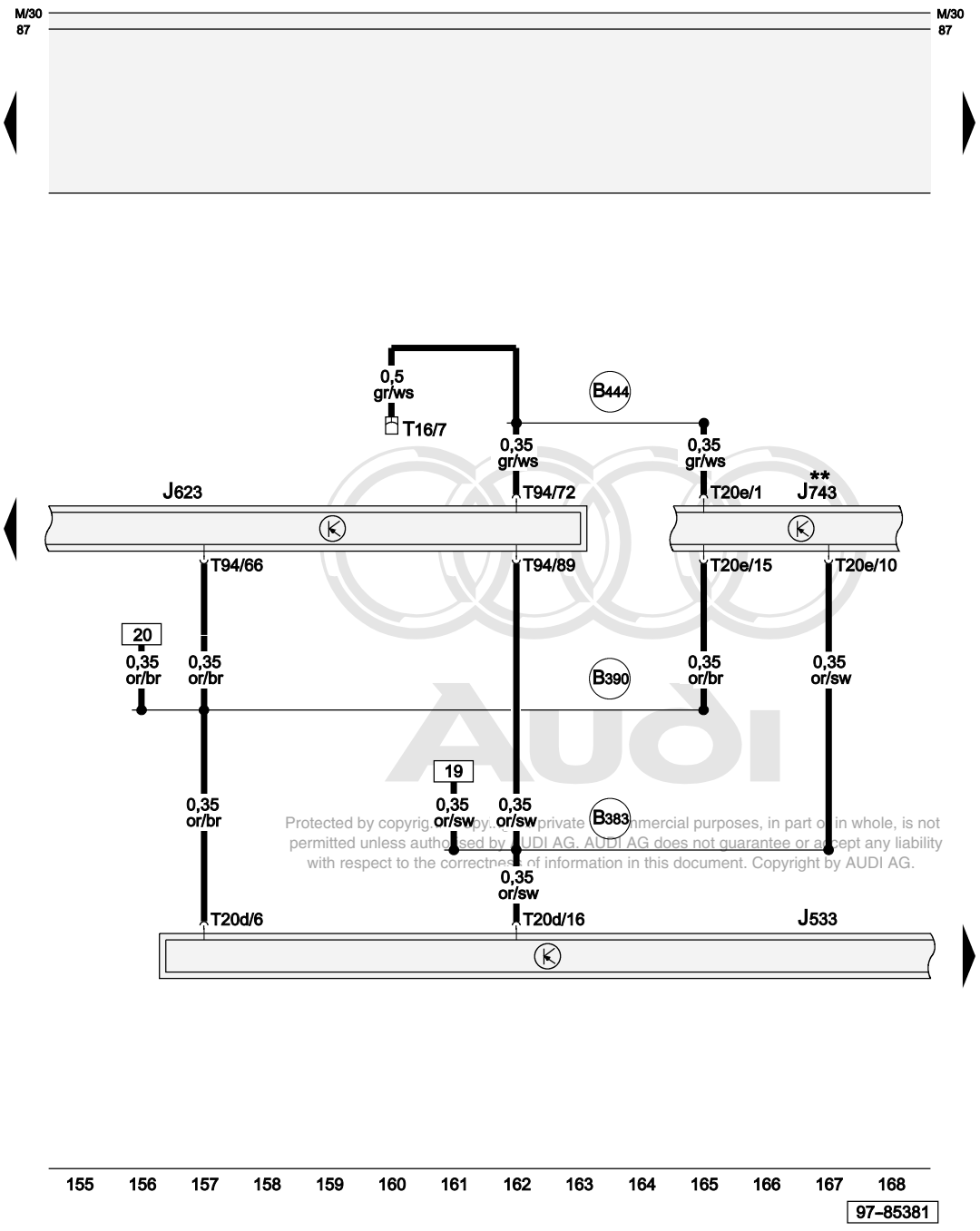


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Engine speed sender, charge air pressure sender, hall sender

G28	Engine speed sender
G31	Charge air pressure sender
G40	Hall sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T6k	6-pin connector, black, near accelerator position sender
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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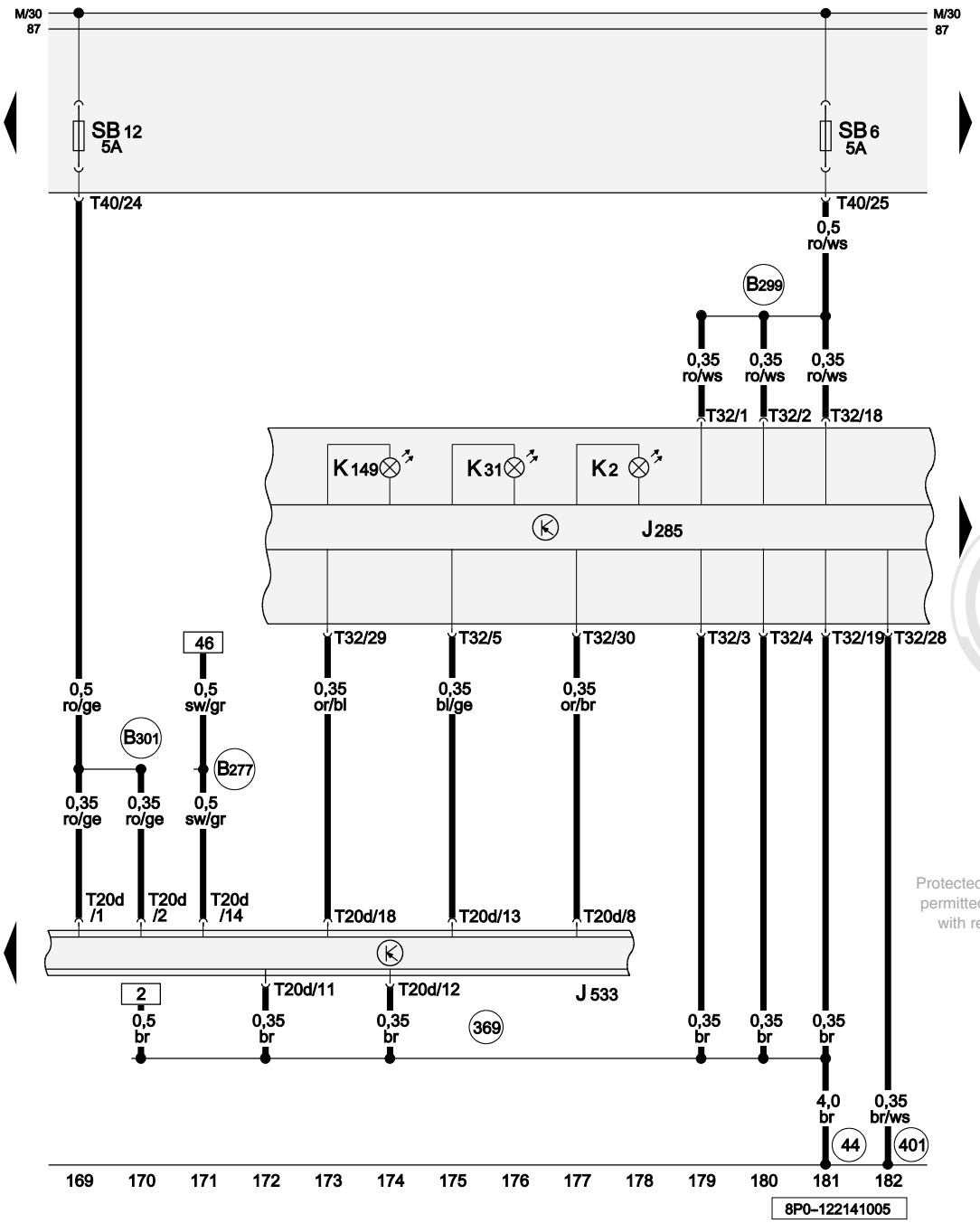


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Drive train CAN bus, diagnosis

J533	Data bus diagnostic interface
J623	Engine control unit
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
**	for models with direct shift gearbox (02E) only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

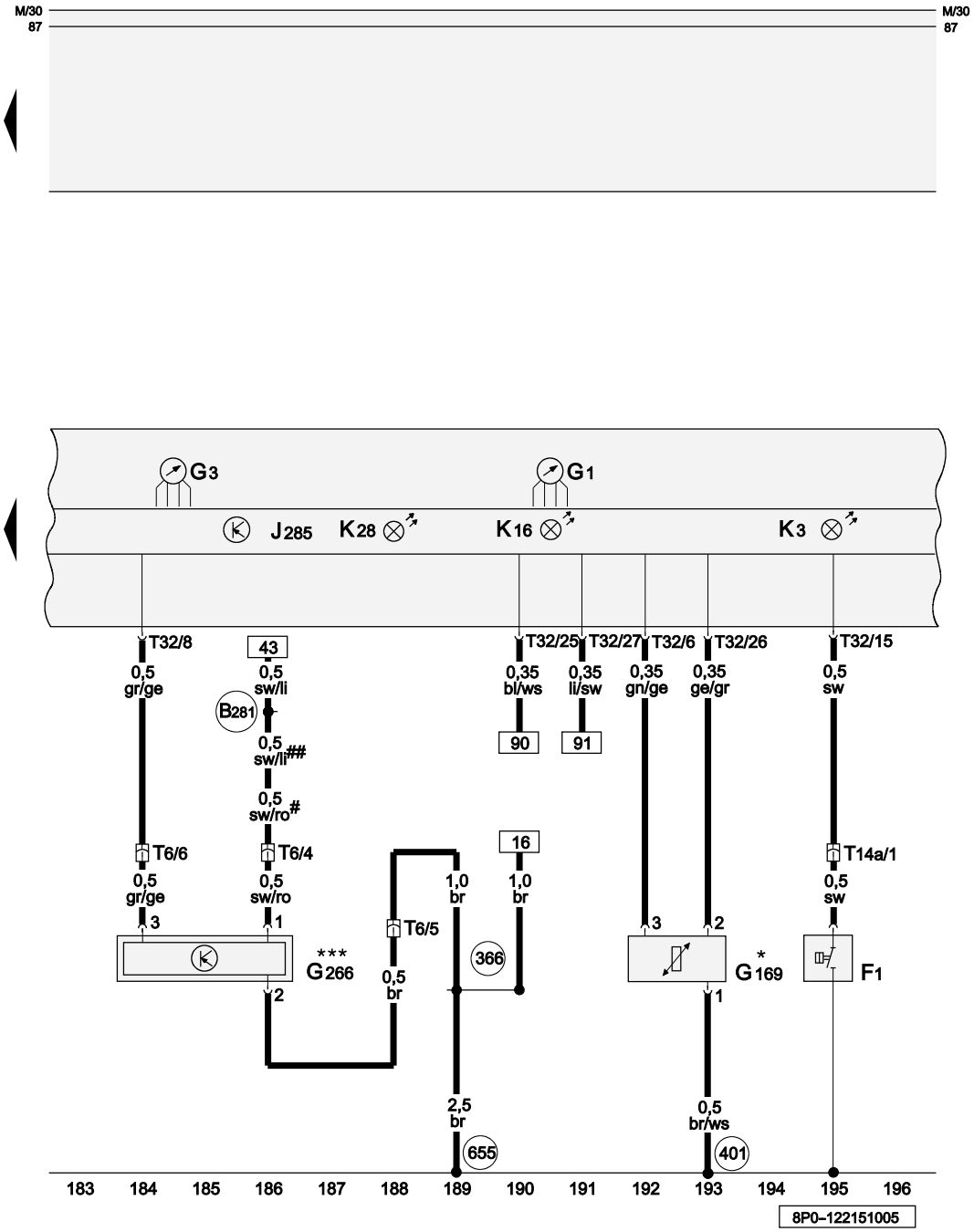


Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB6	Fuse 6 on fuse holder B
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

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bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G169	Fuel gauge sender 2
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T14a	14-pin connector, black, near relay carrier electronics box
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
655	Earth point, on left headlight
B281	Positive connection 5 (15a), in main wiring harness
*	for models with four-wheel drive only
***	for models with extended servicing intervals (ESI) only
#	No longer fitted, phased-in modification
##	phased-in modification

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bl	=	blue
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li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Airbags for driver and front passenger with belt tensioners and side airbags

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

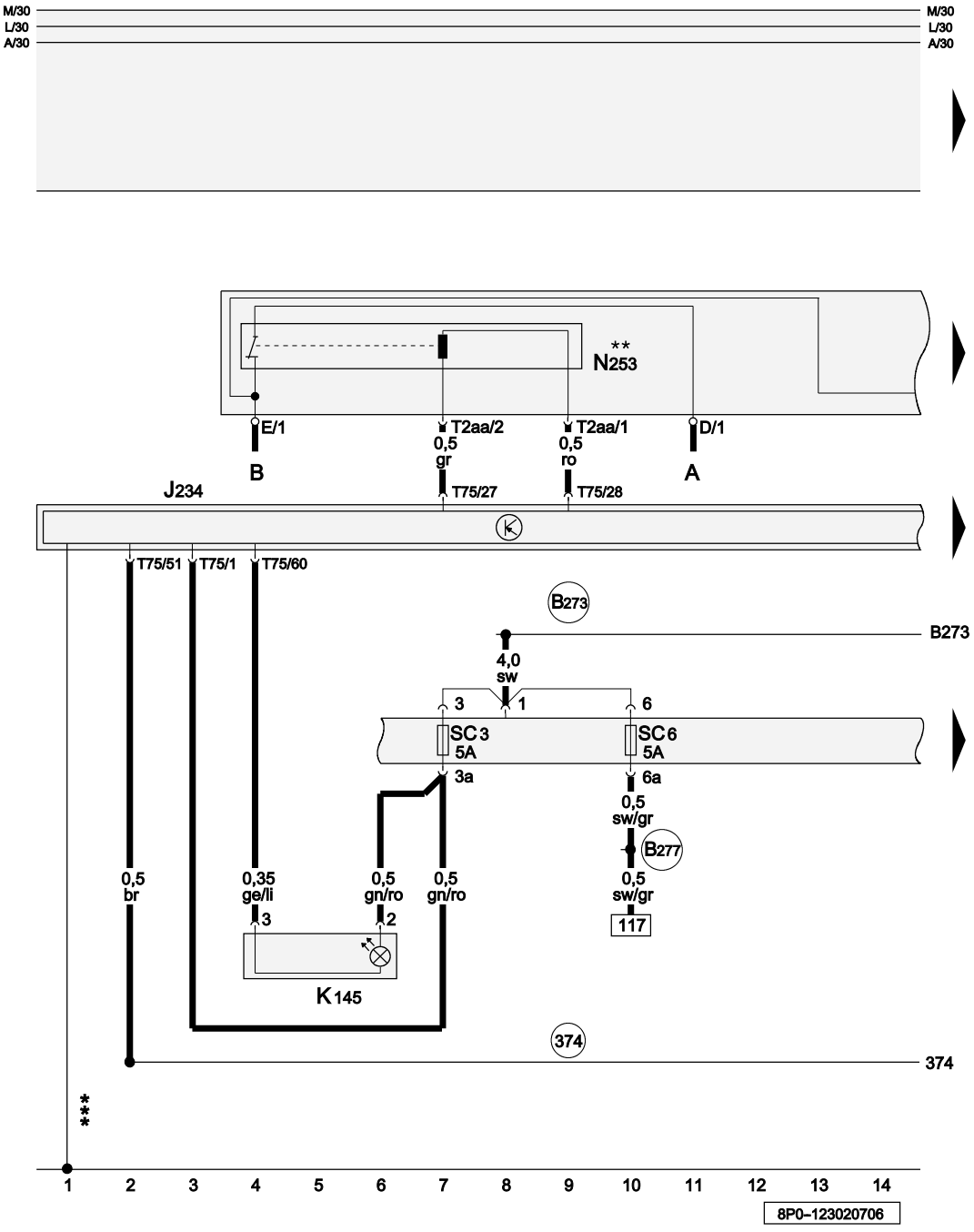
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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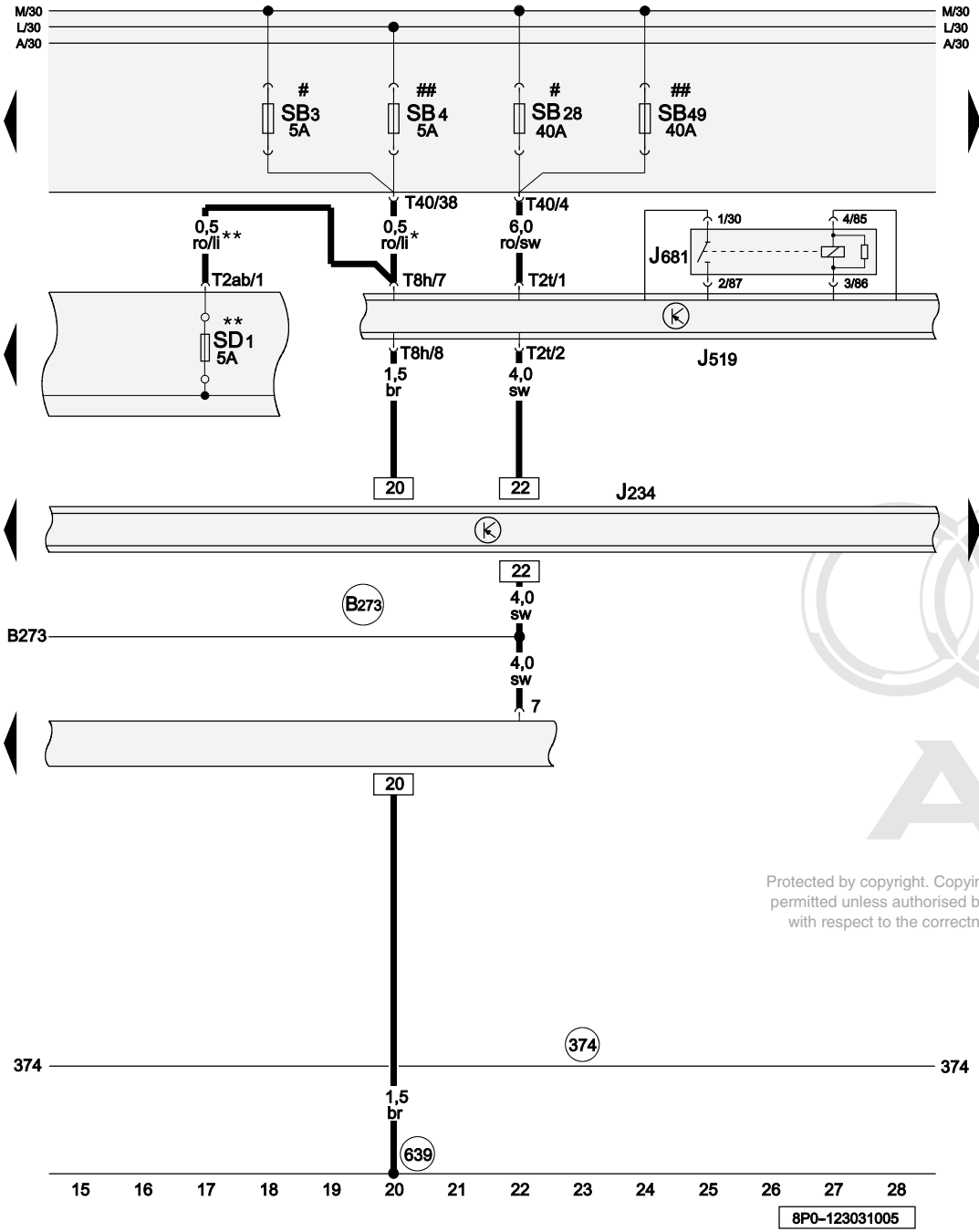


Fuses on fuse holder, battery isolation igniter

A	Battery
B	Starter
J234	Airbag control unit
K145	Front passenger side airbag deactivated warning lamp
N253	Battery isolation igniter
SC3	Fuse 3 on fuse holder C
SC6	Fuse 6 on fuse holder C
T2aa	2-pin connector, purple (connector locking yellow)
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
***	Earth supply via the housing from airbag control unit

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rs	=	pink

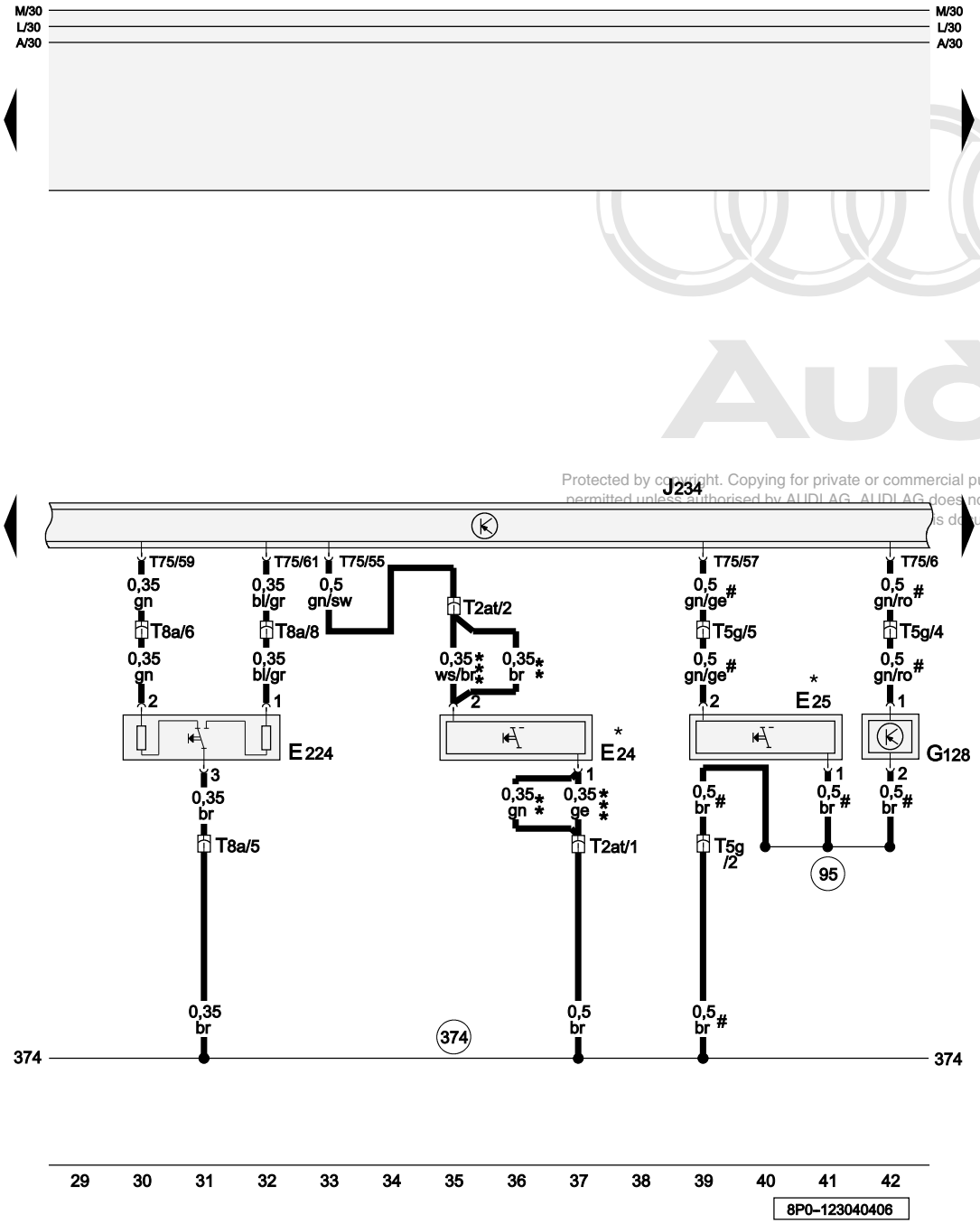


Terminal 15 voltage supply relay 2

J234	Airbag control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB3	Fuse 3 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SD1	Fuse 1 on fuse holder D
T2t	2-pin connector, black (connector L)
T2ab	2-pin connector, black
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
374	Earth connection 9, in main wiring harness
639	Earth point, left A-pillar
B273	Positive connection (15), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

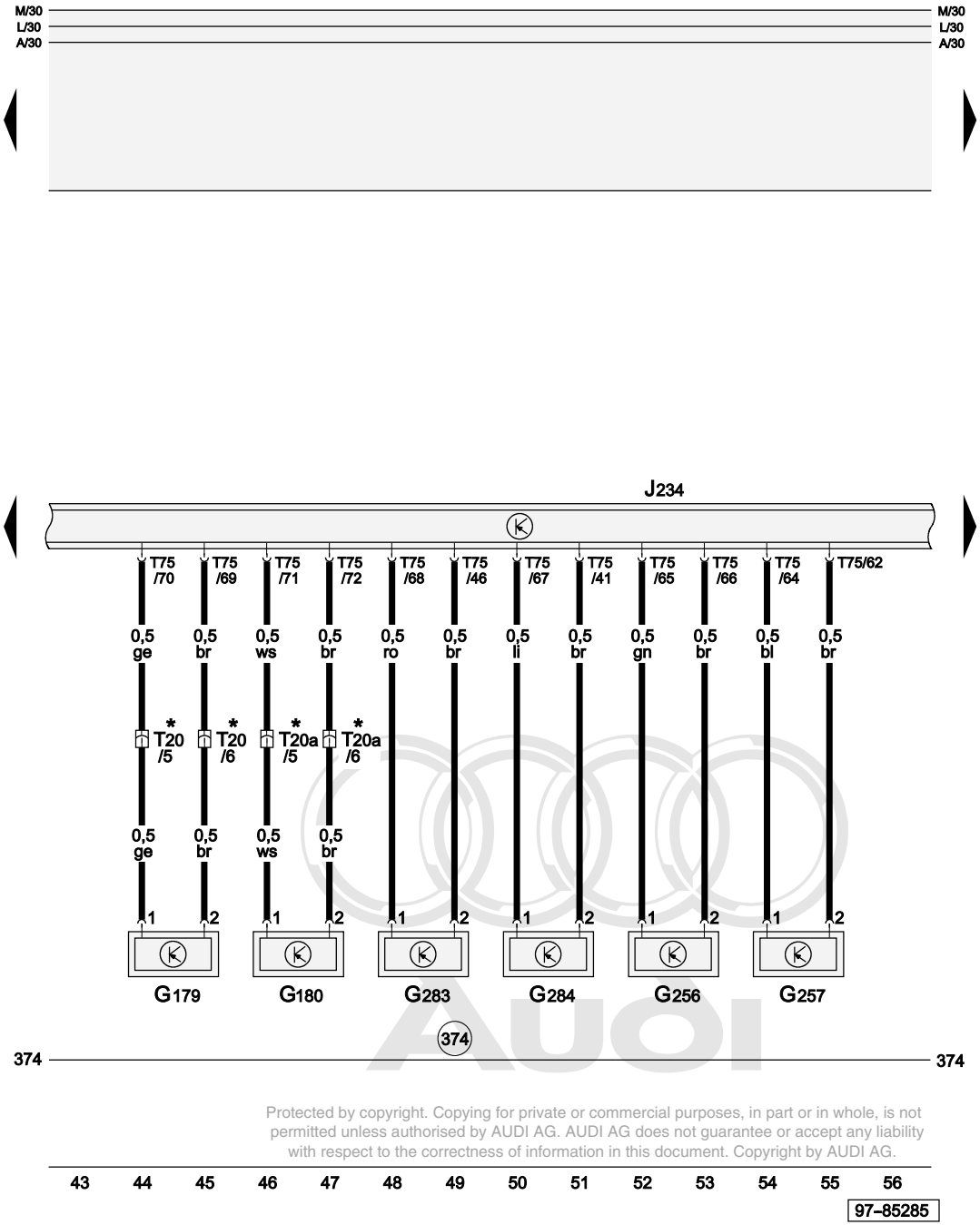


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Belt switch, airbag control unit

E24	Driver side belt switch
E25	Front passenger side belt switch
E224	Key operated switch to deactivate front passenger side airbag
G128	Seat occupied sensor, front passenger side
J234	Airbag control unit
T2at	2-pin connector, black, under driver seat
T5g	5-pin connector, black, under front passenger seat
T8a	8-connector, black, near glove compartment
T75	75-pin connector, yellow (connector locking green)
95	Earth connection 1, in seat adjuster wiring harness
374	Earth connection 9, in main wiring harness
*	for models with belt tensioners only
**	for models with seat adjustment only
***	for models without seat adjustment only
#	is dropped from November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Crash sensors

G179	Side airbag crash sensor on driver side
G180	Side airbag crash sensor on front passenger side
G256	Rear side airbag crash sensor on driver side
G257	Rear side airbag crash sensor on front passenger side
G283	Front airbag crash sensor for driver side
G284	Front airbag crash sensor for front passenger side
J234	Airbag control unit
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness
*	for models with 5-door models only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

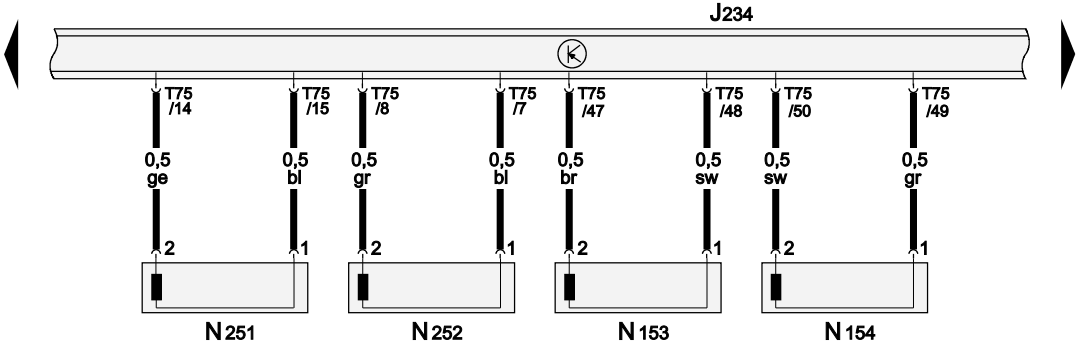
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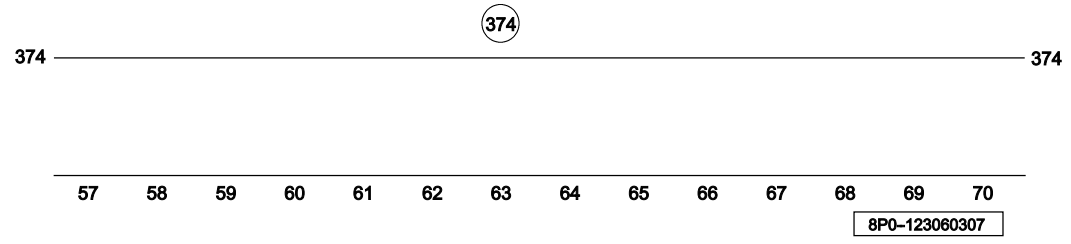


Seat belt tensioner, curtain airbag igniter

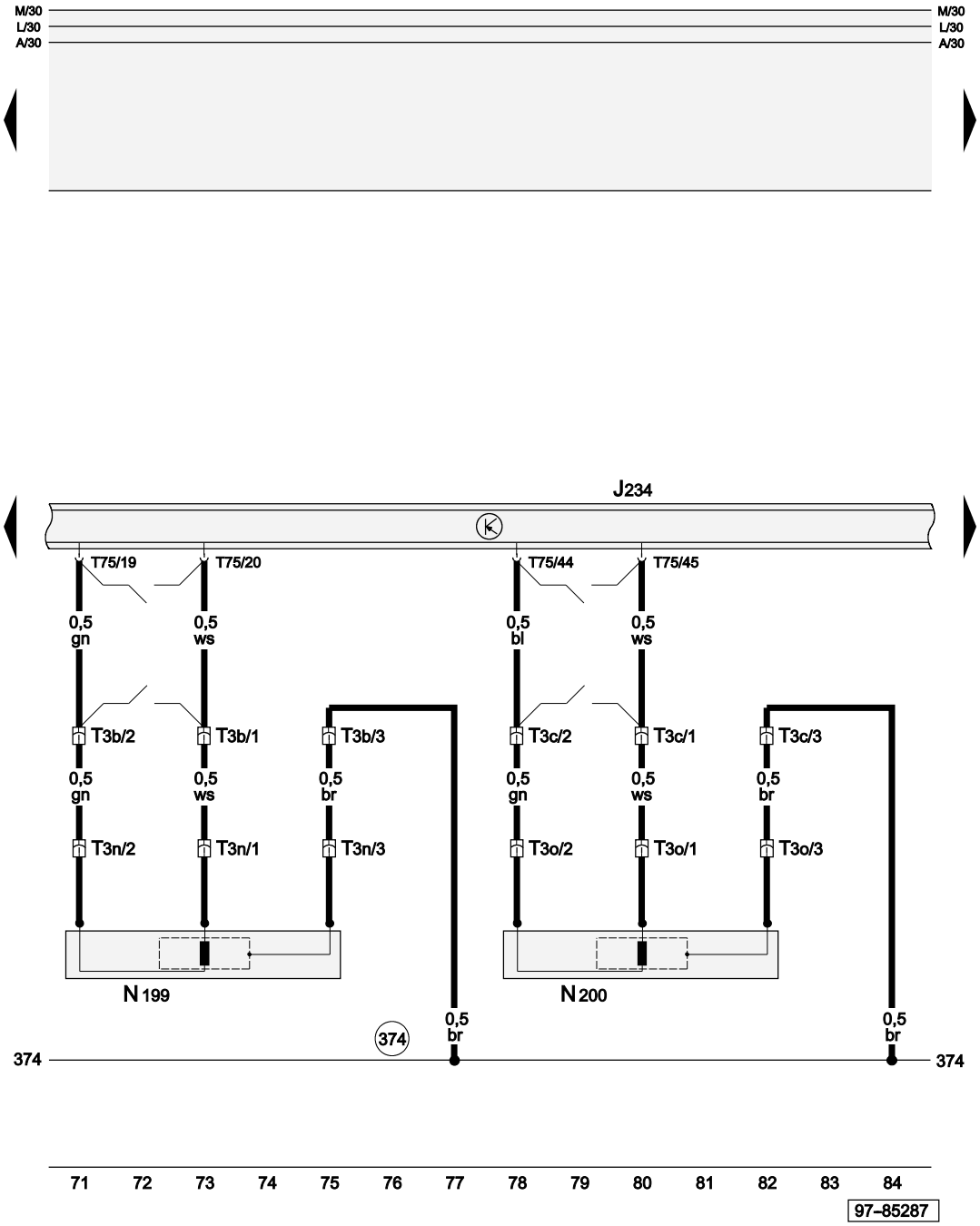
J234	Airbag control unit
N153	Driver seat belt tensioner igniter 1
N154	Front passenger side seat belt tensioner igniter 1
N251	Driver side curtain airbag igniter
N252	Front passenger side curtain airbag igniter
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Side airbag igniter on driver side, side airbag igniter on front passenger side

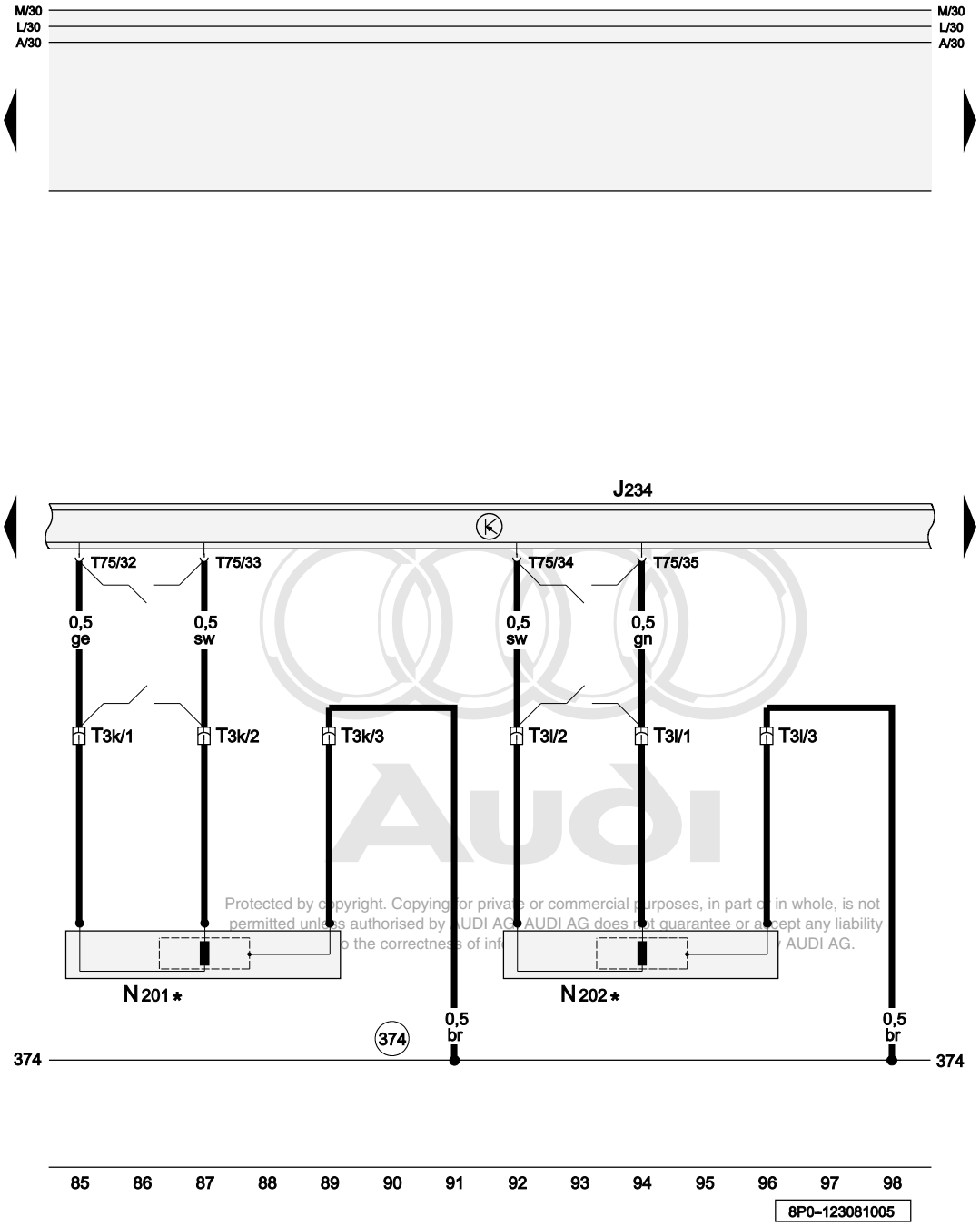
J234	Airbag control unit
N199	Side airbag igniter on driver side
N200	Side airbag igniter on front passenger side
T3b	3-pin connector, yellow, near driver seat
T3c	3-pin connector, yellow, near front passenger seat
T3n	3-pin connector, in driver seat
T3o	3-pin connector, in front passenger seat
T75	75-pin connector, yellow (connector locking green)
(374)	Earth connection 9, in main wiring harness

<fo:exter short circuit bridge becomes effective when connector is unplugged

nal-
graphic
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PDOC/
samba/
tools/
png-
convert/
out//slp/
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0pt"
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uniform"/
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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink



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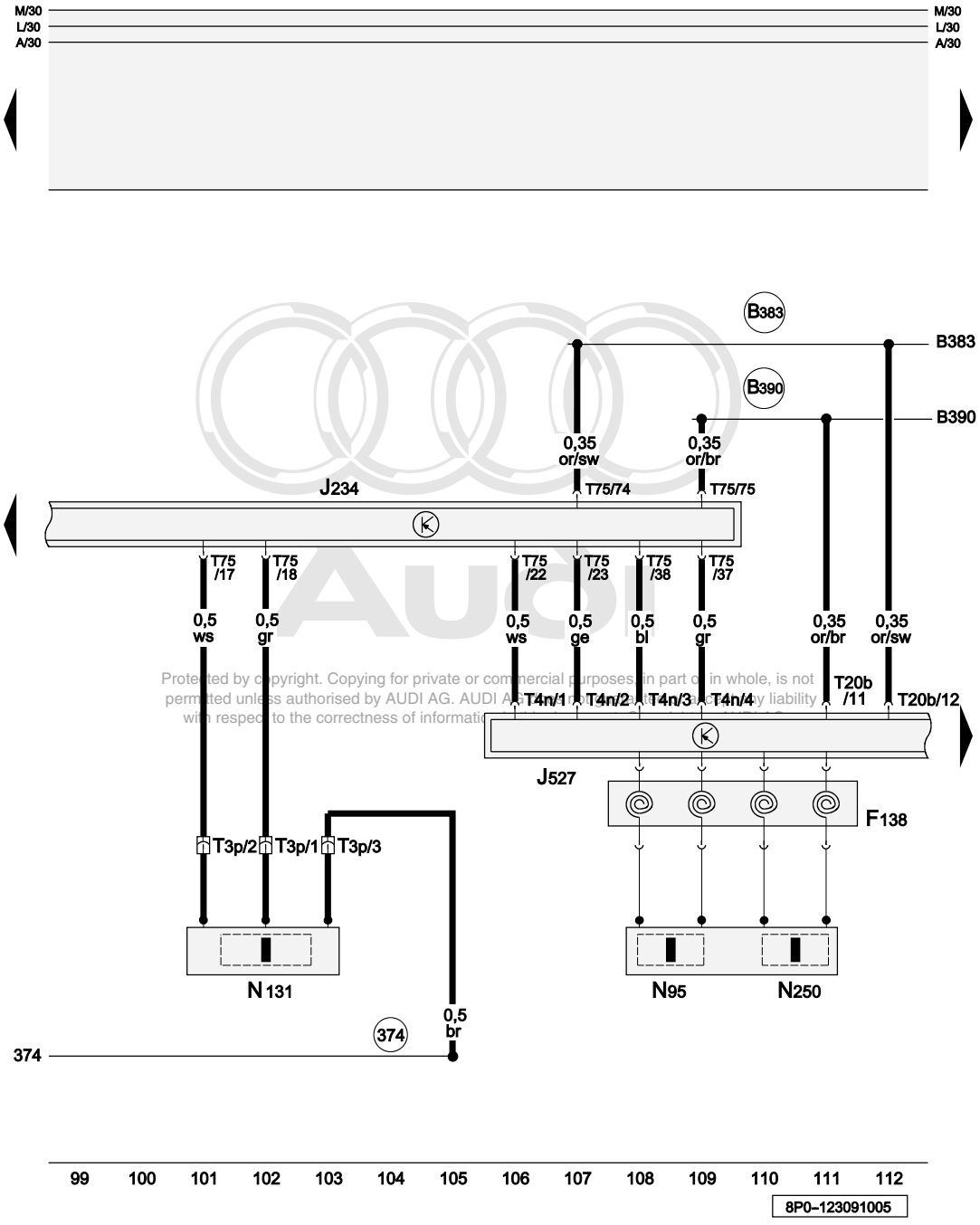
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Rear side airbag igniter on driver side, rear side airbag igniter on front passenger side

J234	Airbag control unit
N201	Rear side airbag igniter on driver side
N202	Rear side airbag igniter on front passenger side
T3k	3-pin connector, yellow (connector locking purple), near C-pillar left
T3l	3-pin connector, yellow (connector locking purple), near C-pillar right
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness

<fo:exter short circuit bridge becomes effective when connector is unplugged
nal-
graphic
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PDOC/
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png-
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* for models with 5-door models only

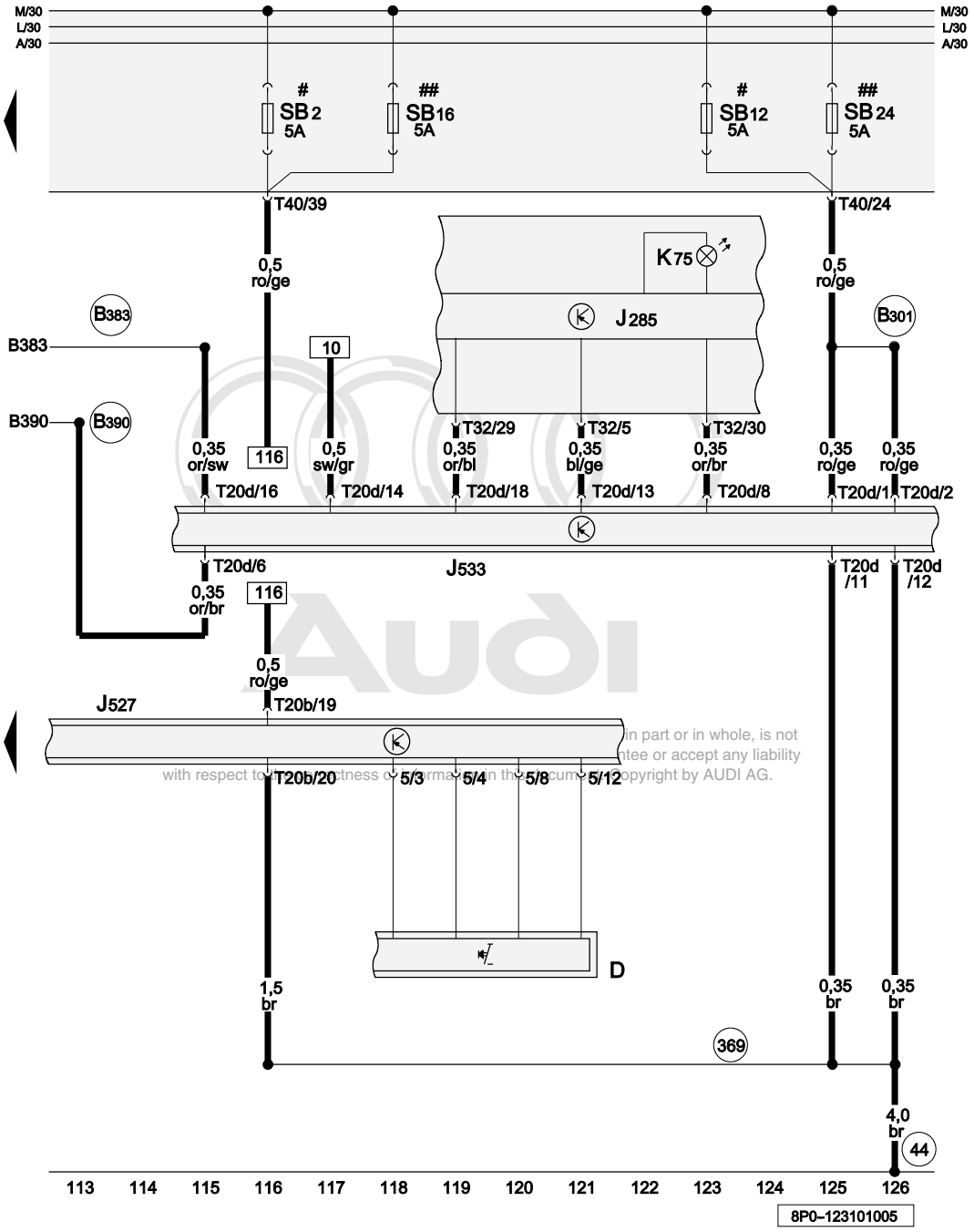


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Driver side airbag igniter, front passenger side airbag igniter

F138	Airbag coil connector and return spring with slip ring
J234	Airbag control unit
J527	Steering column electronics control unit
N95	Driver side airbag igniter
N131	Front passenger side airbag igniter 1
N250	Driver side airbag igniter 2
T3p	3-pin connector, yellow
T4n	4-pin connector, yellow (connector B)
T20b	20-pin connector, black (connector A)
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink



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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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or = orange
rs = pink

Control unit in dash panel insert, steering column electronics control unit, airbag warning lamp

D	Ignition/starter switch
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K75	Airbag warning lamp
SB2	Fuse 2 on fuse holder B
SB12	Fuse 12 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB24	Fuse 24 on fuse holder B
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

Airbags for driver and front passenger with belt tensioners and side airbags

⇒ **for US equipment only**

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

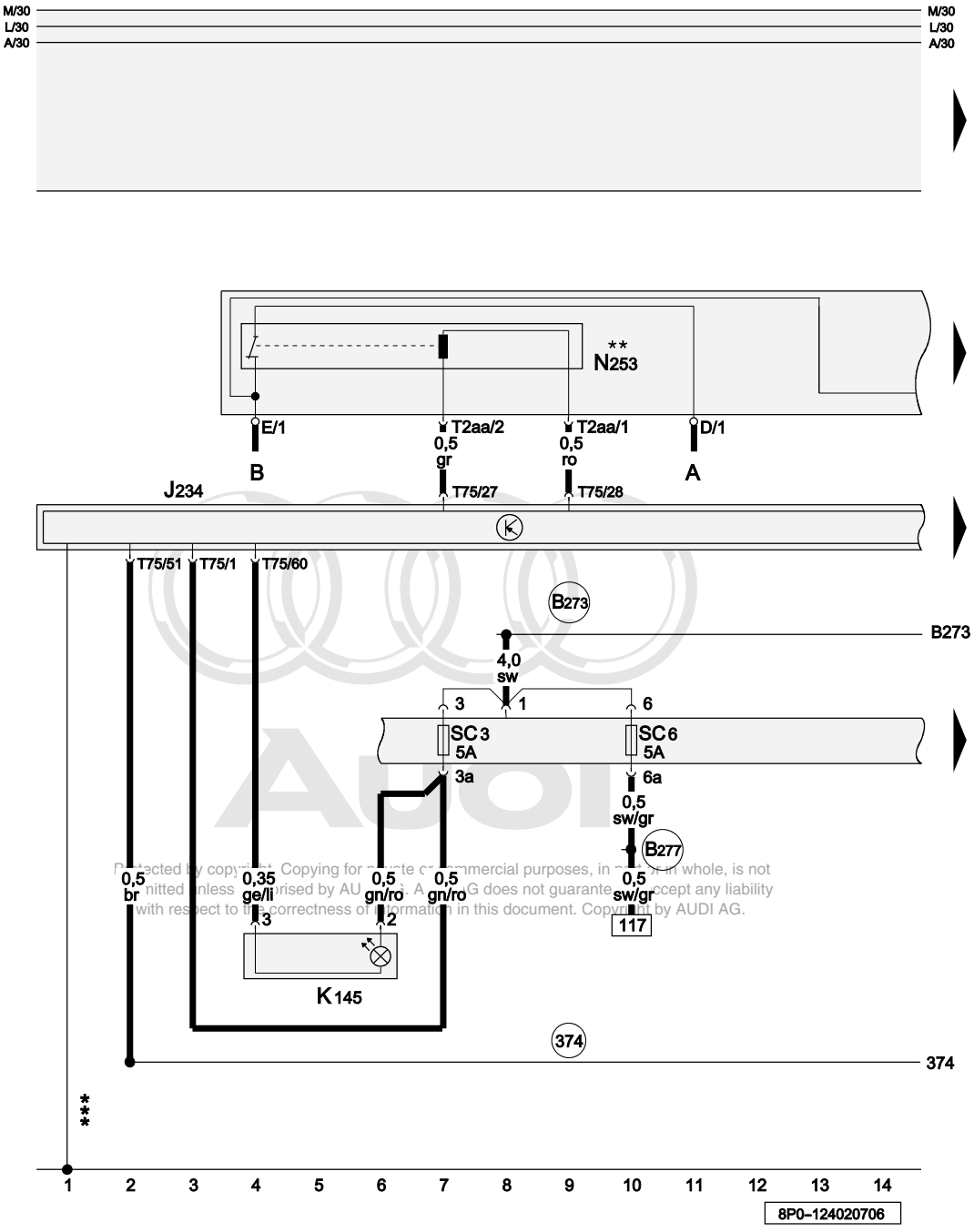
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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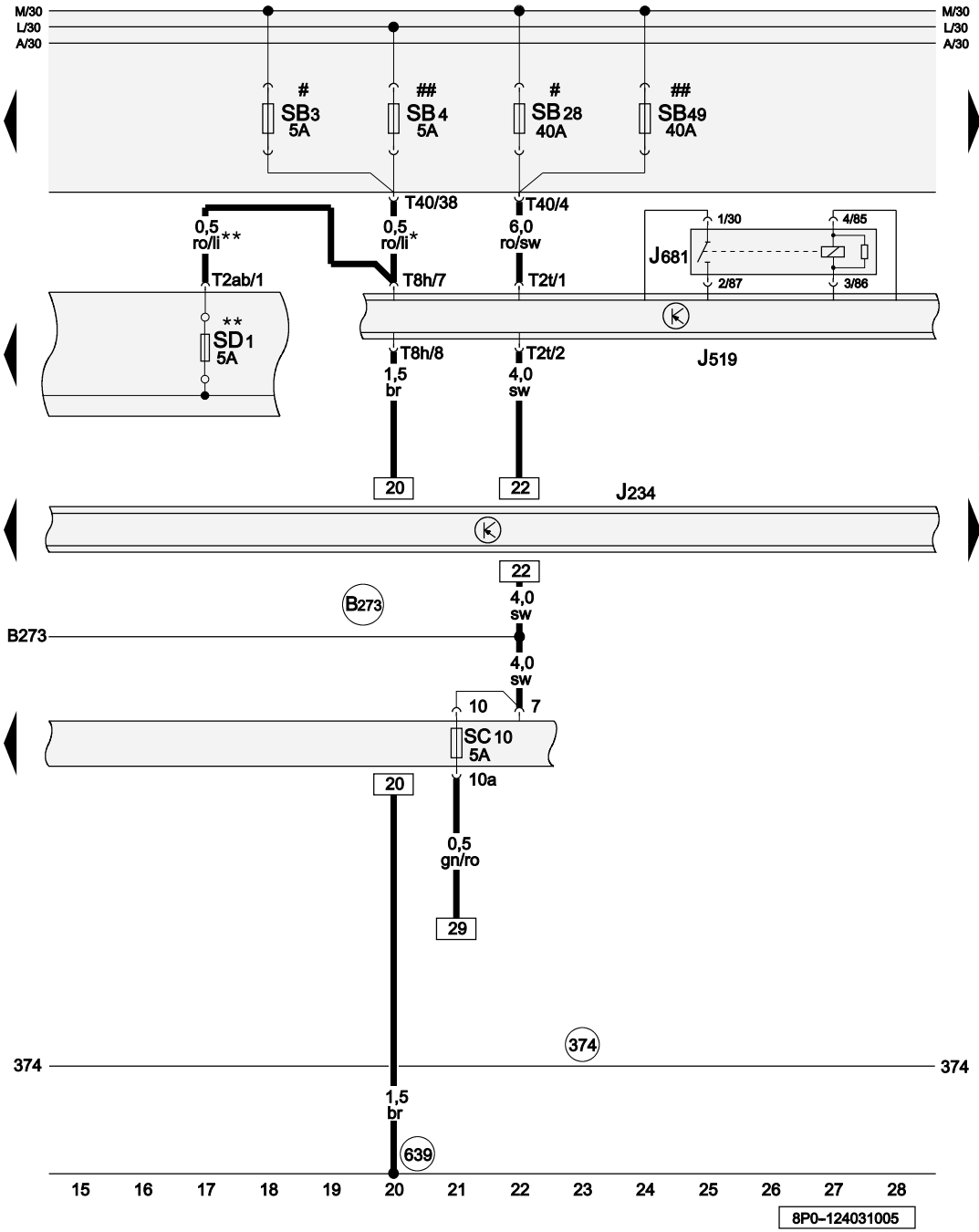


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Fuses on fuse holder, battery isolation igniter

A	Battery
B	Starter
J234	Airbag control unit
K145	Front passenger side airbag deactivated warning lamp
N253	Battery isolation igniter
SC3	Fuse 3 on fuse holder C
SC6	Fuse 6 on fuse holder C
T2aa	2-pin connector, purple (connector locking yellow)
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
***	Earth supply via the housing from airbag control unit

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

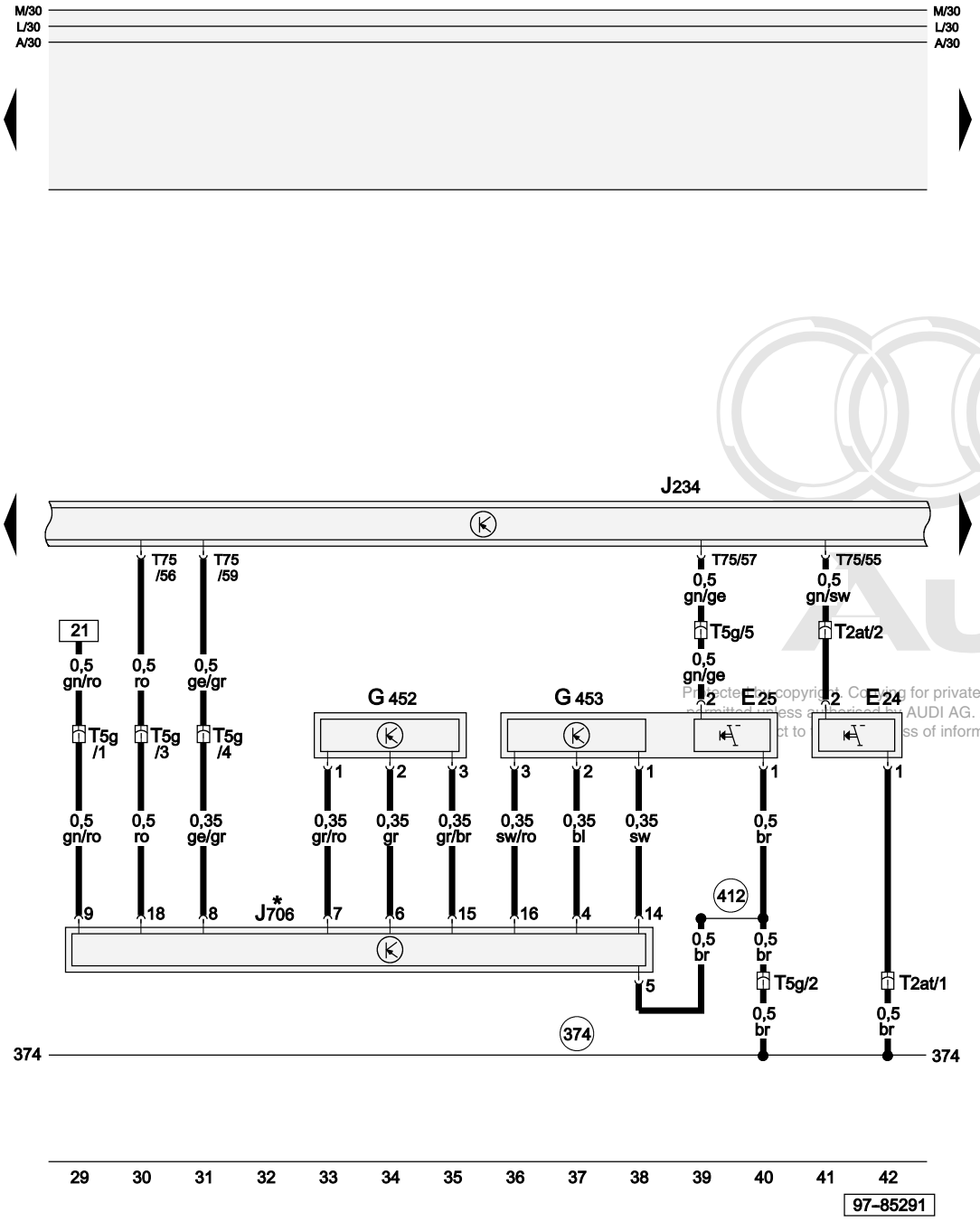


Terminal 15 voltage supply relay 2

J234	Airbag control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB3	Fuse 3 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC10	Fuse 10 on fuse holder C
SD1	Fuse 1 on fuse holder D
T2t	2-pin connector, black (connector L)
T2ab	2-pin connector, black
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
374	Earth connection 9, in main wiring harness
639	Earth point, left A-pillar
B273	Positive connection (15), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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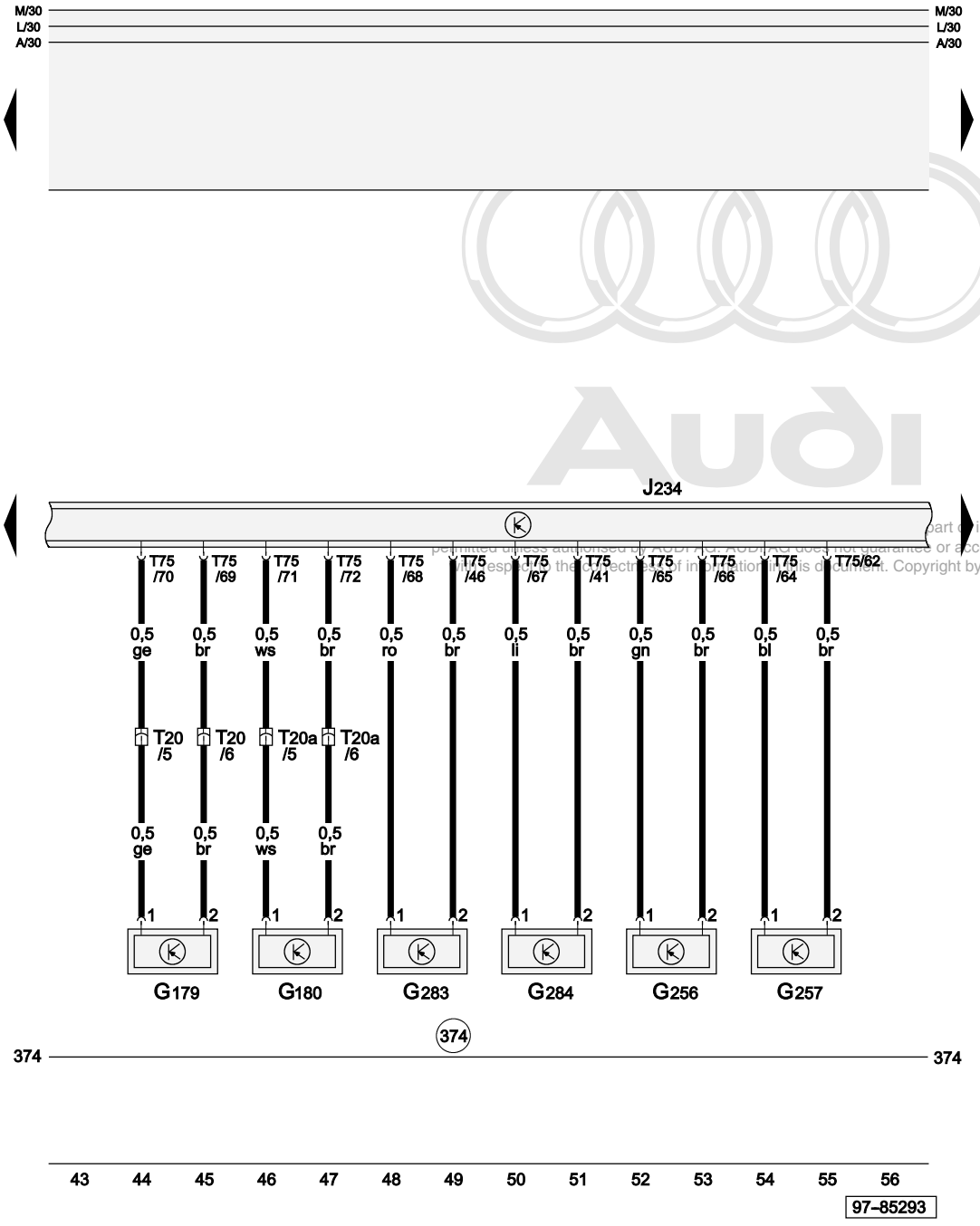


Belt switch, airbag control unit

E24	Driver side belt switch
E25	Front passenger side belt switch
G452	Pressure sensor for seat occupied recognition
G453	Seat belt force sensor for seat occupied recognition
J234	Airbag control unit
J706	Seat occupied recognition control unit
T2at	2-pin connector, black, under driver seat
T5g	5-pin connector, black, under front passenger seat
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness
412	Earth connection 3, in seat adjuster wiring harness
*	for models with seat occupied recognition only

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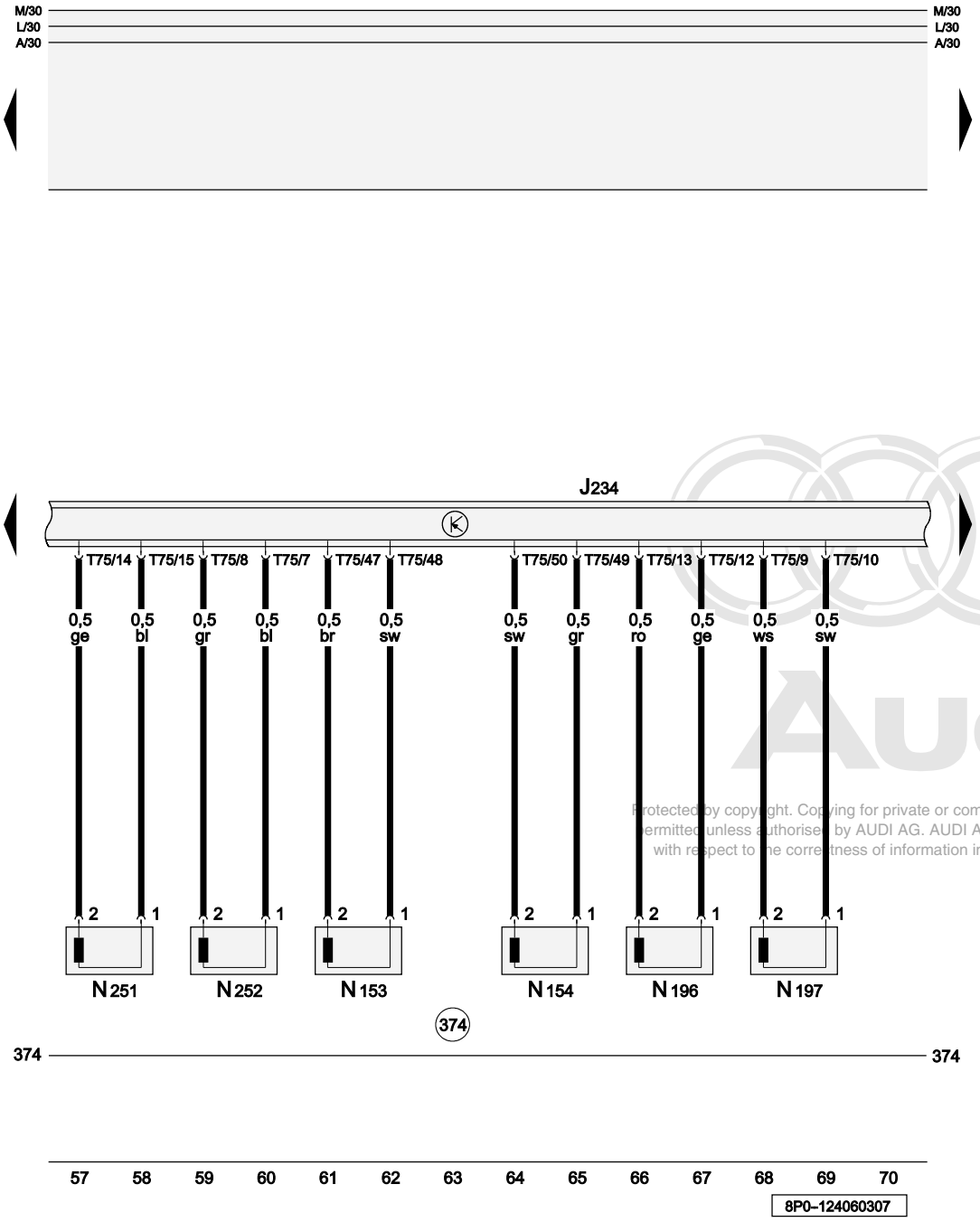
Crash sensors

G179	Side airbag crash sensor on driver side
G180	Side airbag crash sensor on front passenger side
G256	Rear side airbag crash sensor on driver side
G257	Rear side airbag crash sensor on front passenger side
G283	Front airbag crash sensor for driver side
G284	Front airbag crash sensor for front passenger side
J234	Airbag control unit
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness

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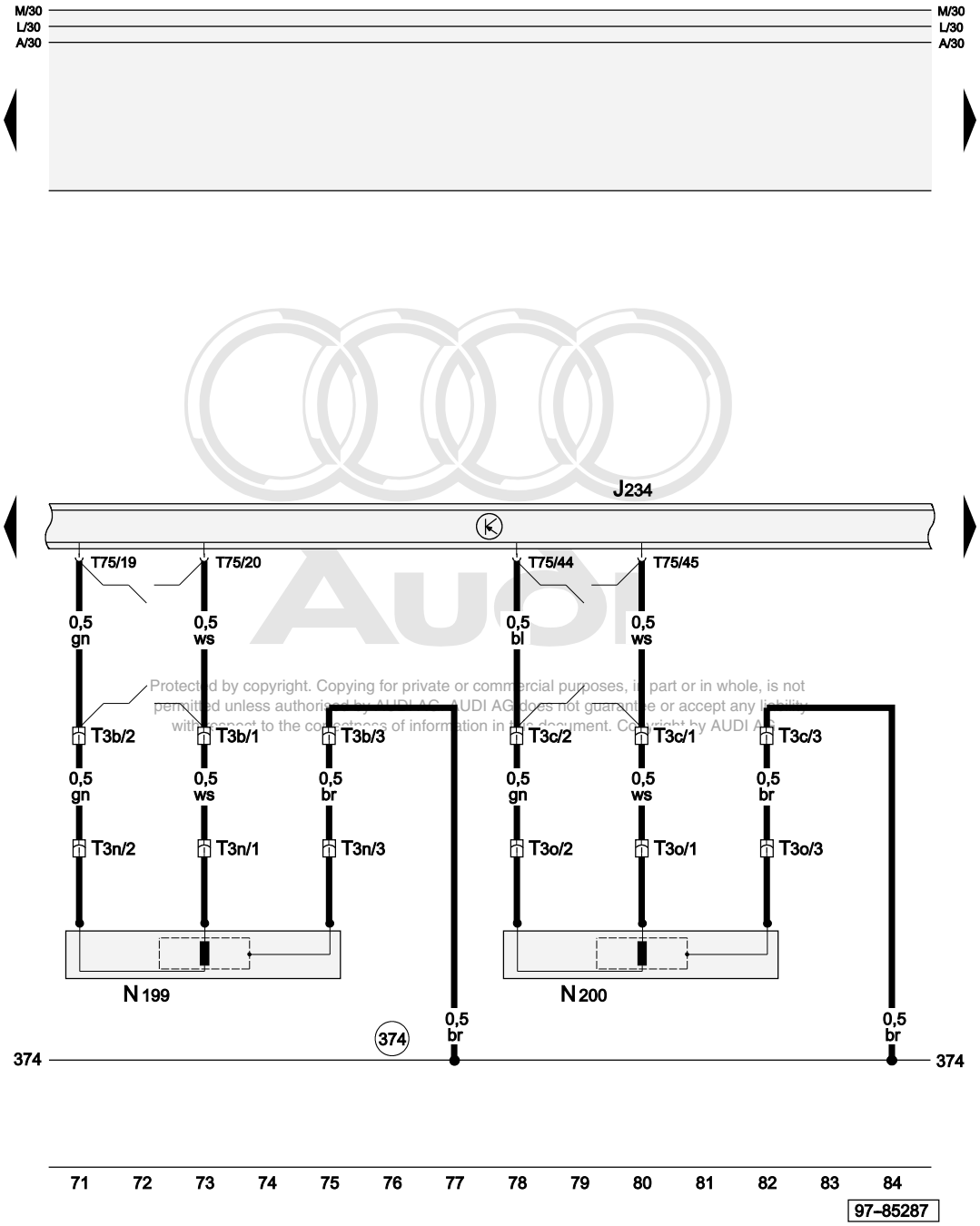


Seat belt tensioner, curtain airbag igniter

J234	Airbag control unit
N153	Driver seat belt tensioner igniter 1
N154	Front passenger side seat belt tensioner igniter 1
N196	Rear belt tensioner igniter on driver side
N197	Rear belt tensioner igniter on front passenger side
N251	Driver side curtain airbag igniter
N252	Front passenger side curtain airbag igniter
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness

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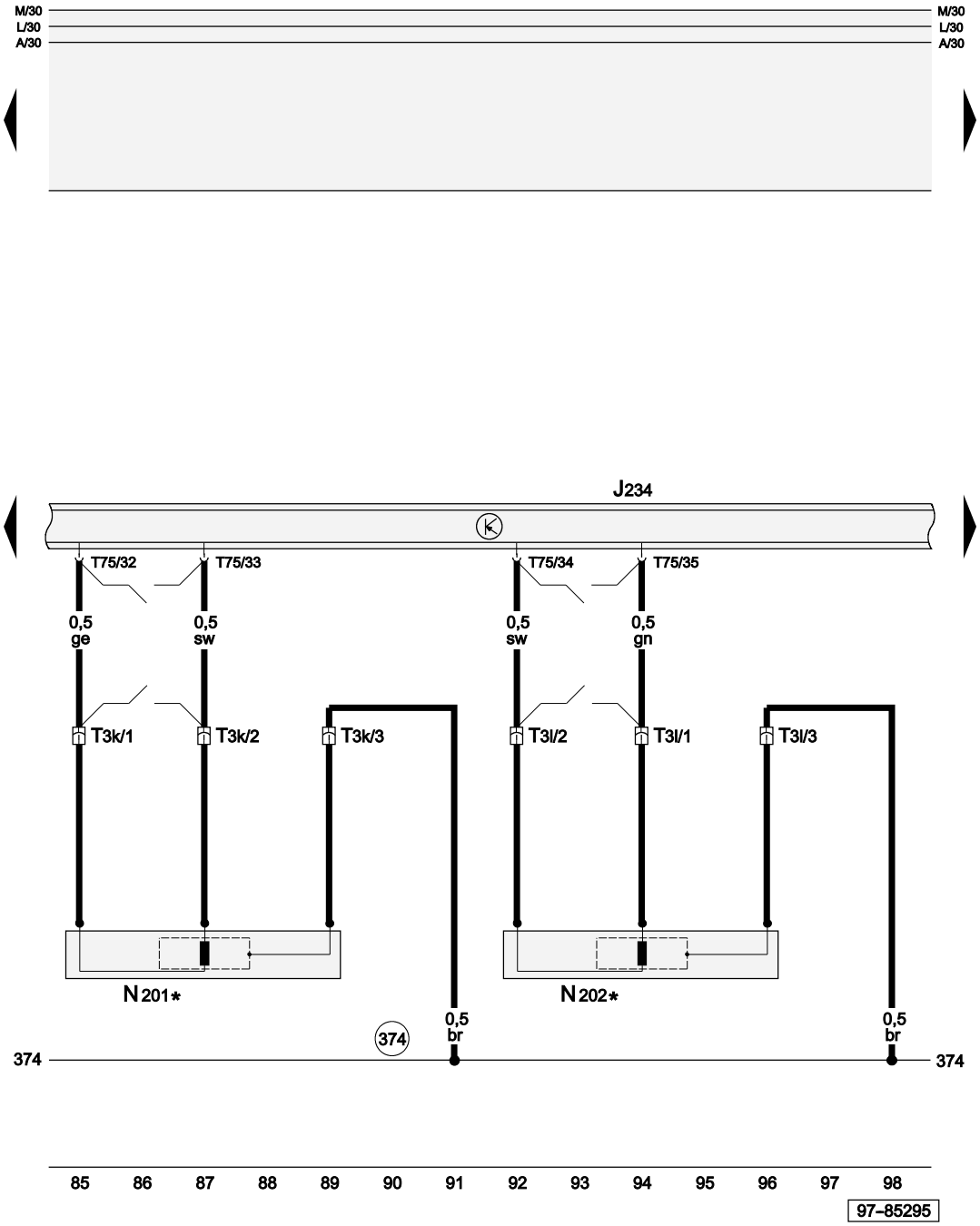
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Side airbag igniter on driver side, side airbag igniter on front passenger side

J234	Airbag control unit
N199	Side airbag igniter on driver side
N200	Side airbag igniter on front passenger side
T3b	3-pin connector, yellow, near driver seat
T3c	3-pin connector, yellow, near front passenger seat
T3n	3-pin connector, in driver seat
T3o	3-pin connector, in front passenger seat
T75	75-pin connector, yellow (connector locking green)
(374)	Earth connection 9, in main wiring harness

<fo:exter short circuit bridge becomes effective when connector is unplugged
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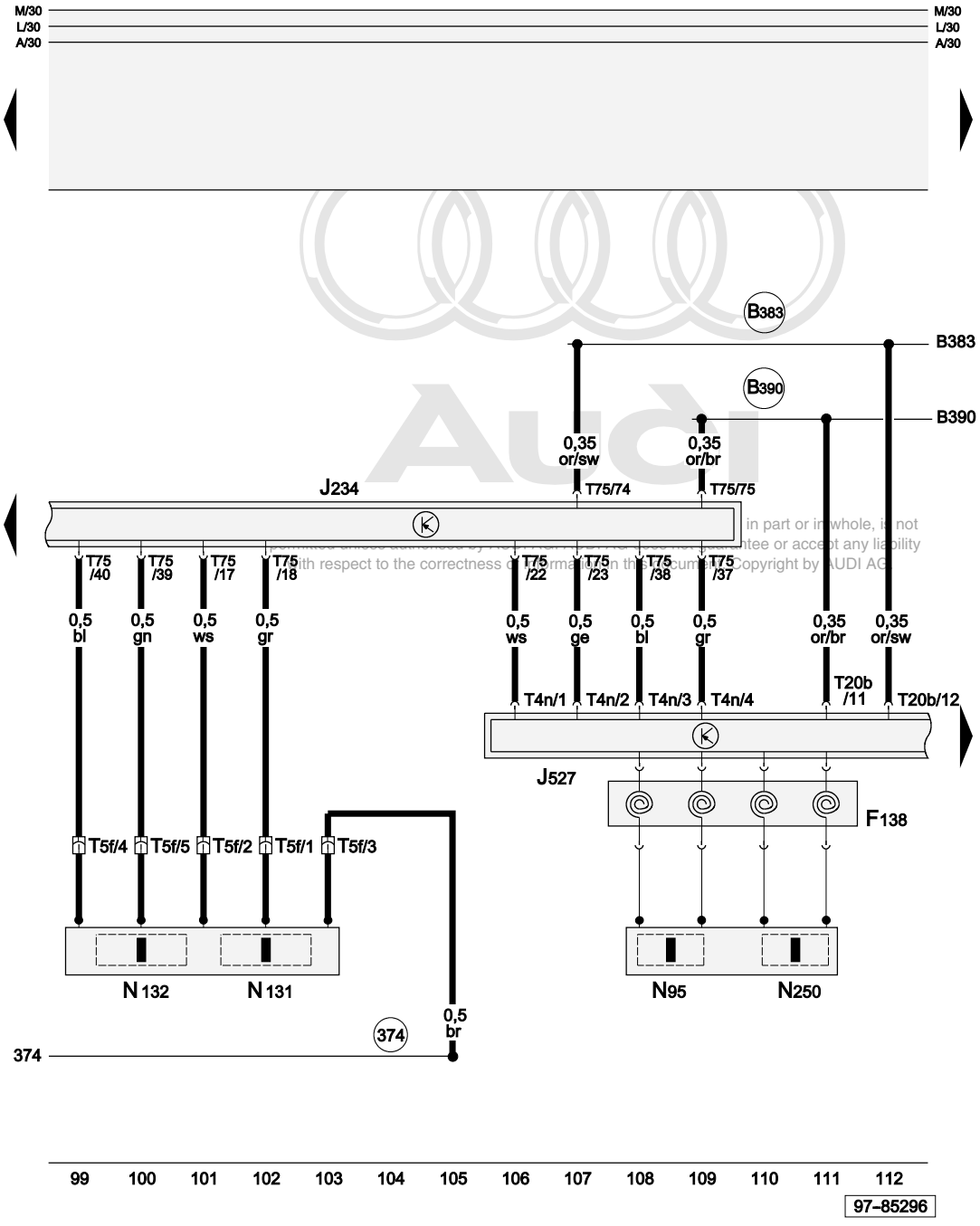
Rear side airbag igniter on driver side, rear side airbag igniter on front passenger side

J234	Airbag control unit
N201	Rear side airbag igniter on driver side
N202	Rear side airbag igniter on front passenger side
T3k	3-pin connector, yellow (connector locking purple), near C-pillar left
T3l	3-pin connector, yellow (connector locking purple), near C-pillar right
T75	75-pin connector, yellow (connector locking green)
(374)	Earth connection 9, in main wiring harness

<fo:exter short circuit bridge becomes effective when connector is unplugged
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* for models with side airbags only

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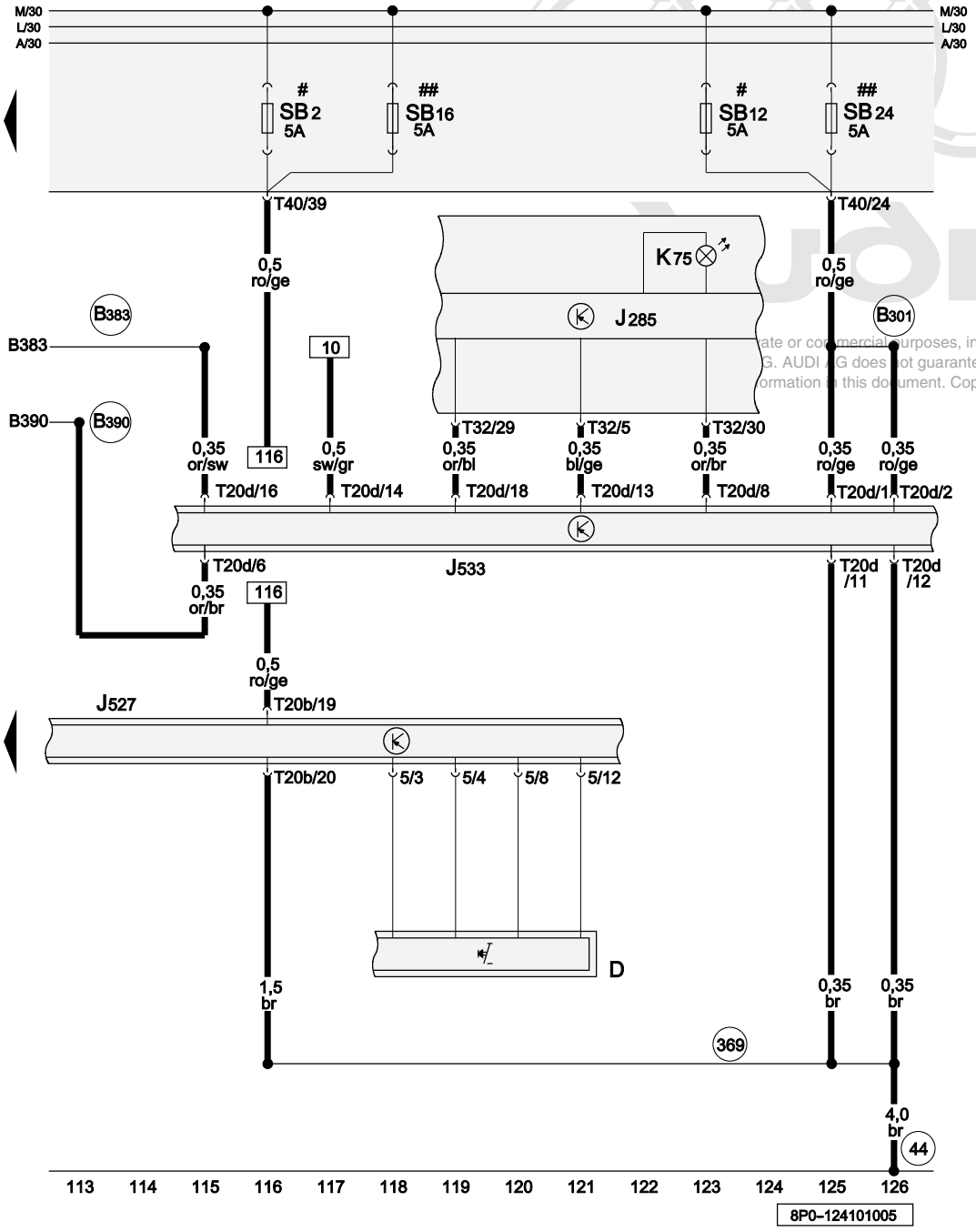


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Driver side airbag igniter, front passenger side airbag igniter

F138	Airbag coil connector and return spring with slip ring
J234	Airbag control unit
J527	Steering column electronics control unit
N95	Driver side airbag igniter
N131	Front passenger side airbag igniter 1
N132	Front passenger side airbag igniter 2
N250	Driver side airbag igniter 2
T4n	4-pin connector, yellow (connector B)
T5f	5-pin connector, black
T20b	20-pin connector, black (connector A)
T75	75-pin connector, yellow (connector locking green)
374	Earth connection 9, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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Control unit in dash panel insert, steering column electronics control unit, airbag warning lamp

D	Ignition/starter switch
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K75	Airbag warning lamp
SB2	Fuse 2 on fuse holder B
SB12	Fuse 12 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB24	Fuse 24 on fuse holder B
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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Radiator fan control 60 W, 220 W (without air conditioning system)

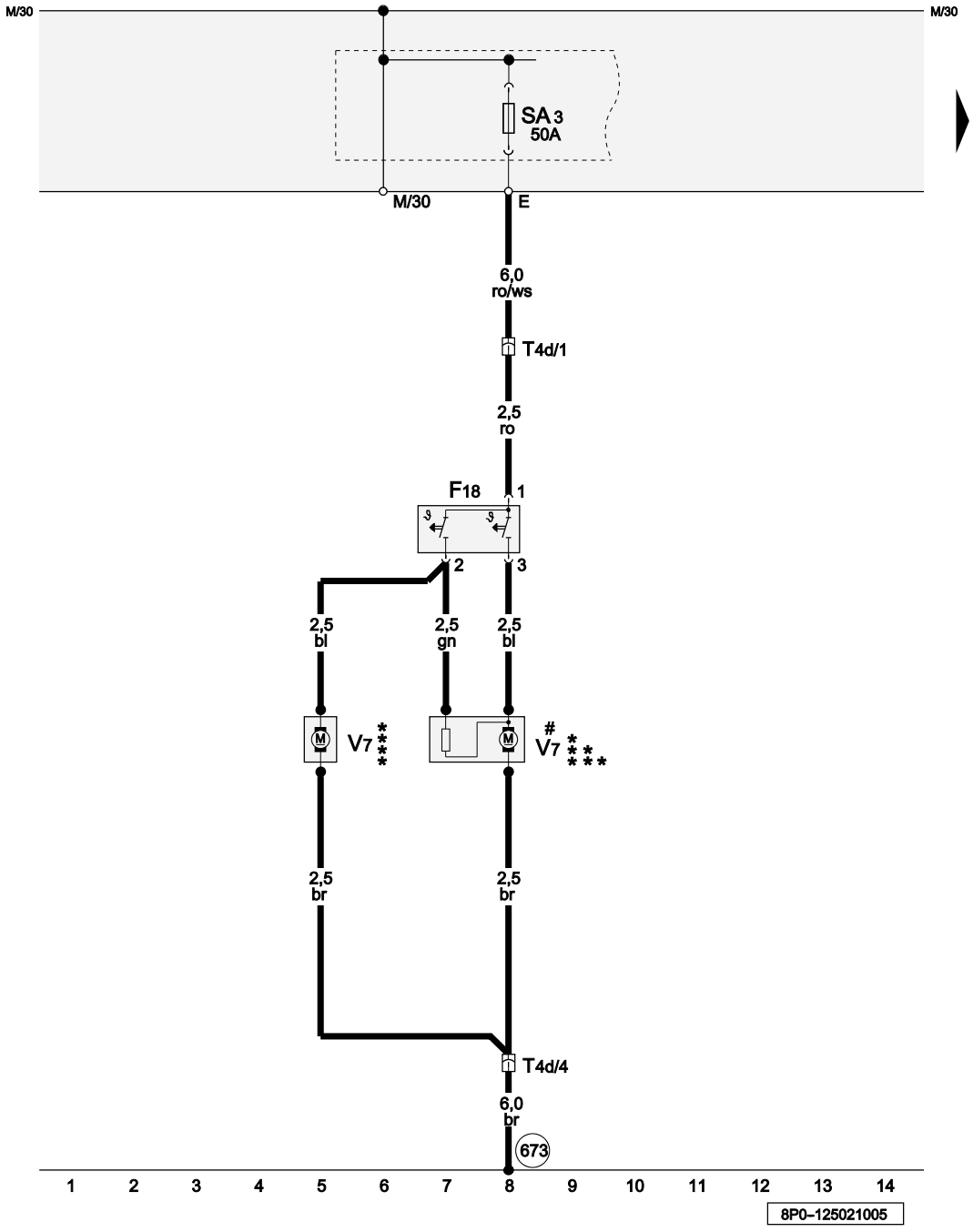
⇒ **Engine codes BLF, BLS, BSE, BSF, BKC**
from model year 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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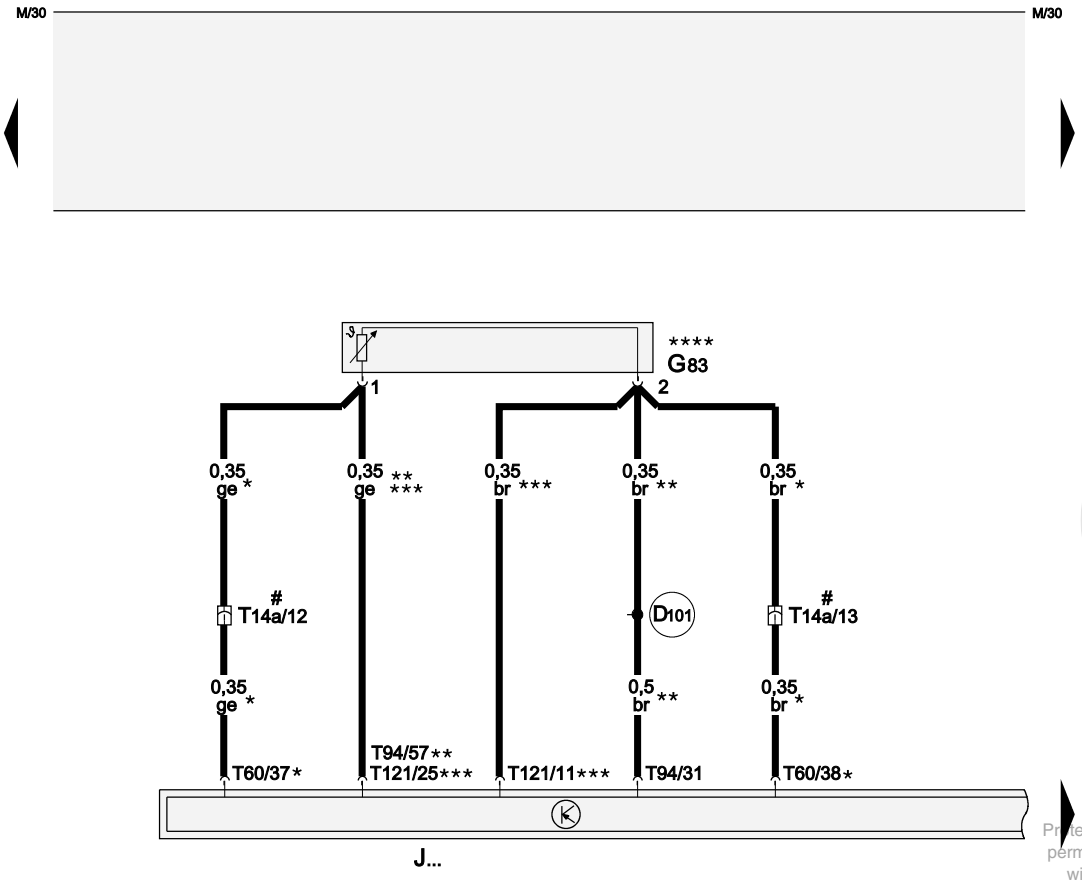


Radiator fan

F18	Radiator fan thermal switch
SA3	Fuse 3 on fuse holder A
T4d	4-pin connector, black, on radiator fan (front end)
V7	Radiator fan
673	Earth point 3, on front of left longitudinal member
*	for countries with hot climate, cold climate with manual gearbox and trailer operation, automatic gearbox, engine codes BLF, BSE, BSF only
**	for countries with cold climate with manual gearbox, engine code BLS only
***	not for countries with hot climate, cold climate with manual gearbox and trailer operation or automatic gearbox, engine code BLS
****	for countries with cold climate with manual gearbox, engine codes BLF, BSE, BSF only
#	For countries with cold climate with manual gearbox, engine code BKC only

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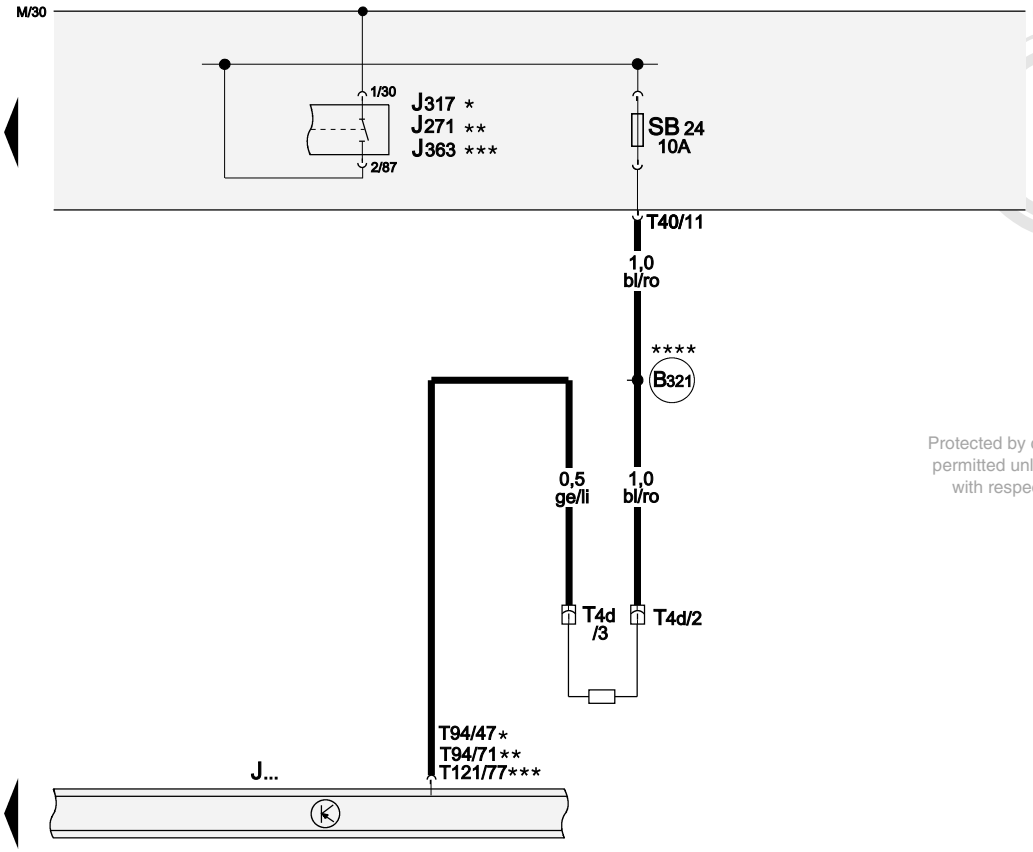


Radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J...	Engine control units
T14a	14-pin connector, black, near relay carrier electronics box
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
D101	Connection 1, in engine compartment wiring harness
*	for models with engine code BLS only
**	for models with engine code BLF only
***	for models with engine code BSE, BSF only
****	for models with radiator outlet coolant temperature sender only
#	not for models with engine code BLS

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Terminal resistor

J...	Engine control units
J271	Motronic current supply relay
J317	Terminal 30 voltage supply relay
J363	Current supply relay for Simos control unit
SB24	Fuse 24 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B321	Positive connection 7 (30a), in main wiring harness
*	for models with engine codes BLS, BKC only
**	for models with engine code BLF only
***	for models with engine code BSE, BSF only
****	no longer fitted, for models with engine code BLS only, phased-in modification

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Radiator fan control 340 W (with and without air conditioning system)

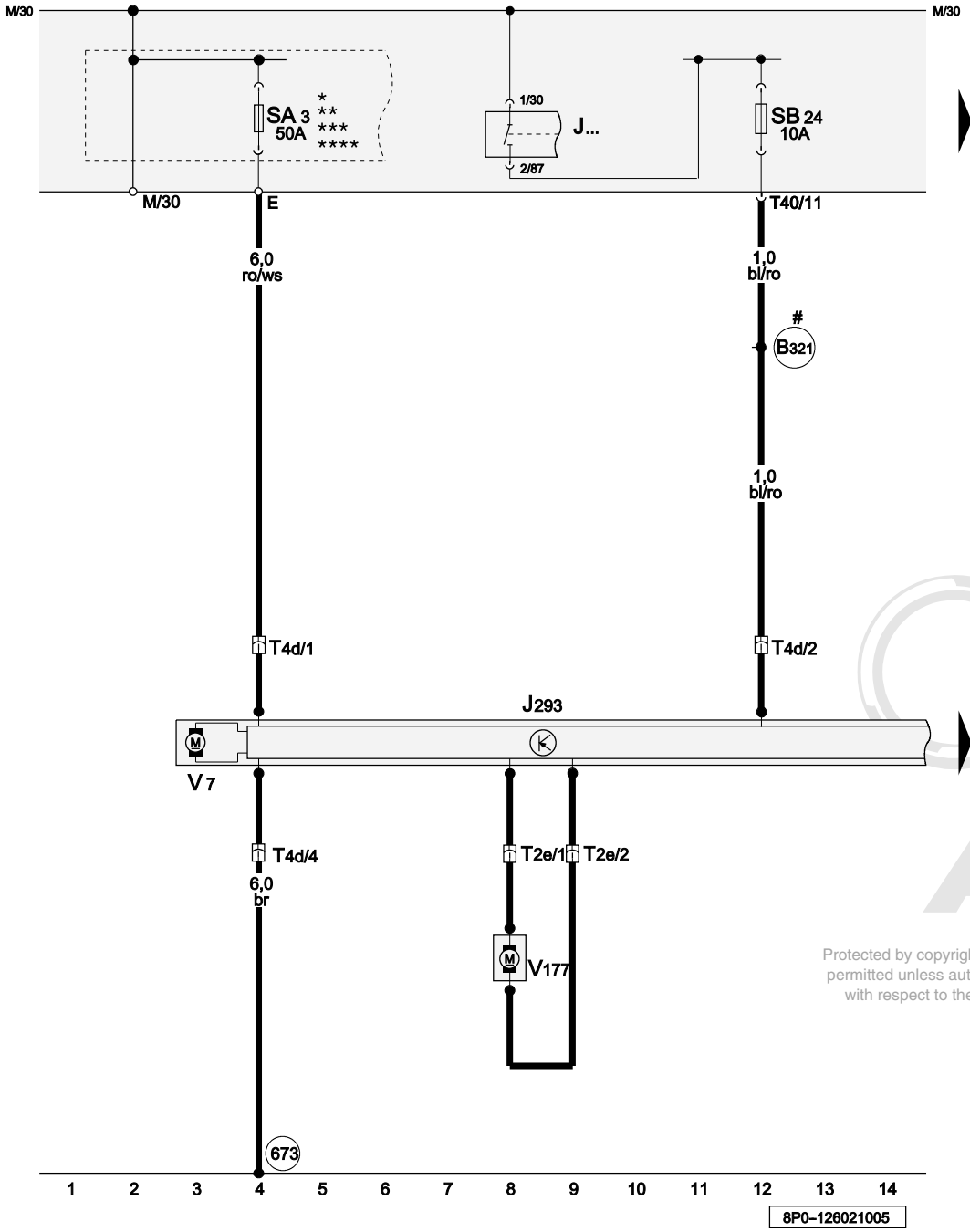
⇒ **Engine codes AZV, BKD, BLF, BLR, BLS, BLY, BMM, BSE, BSF, BVY, BVZ, BKC**
from model year 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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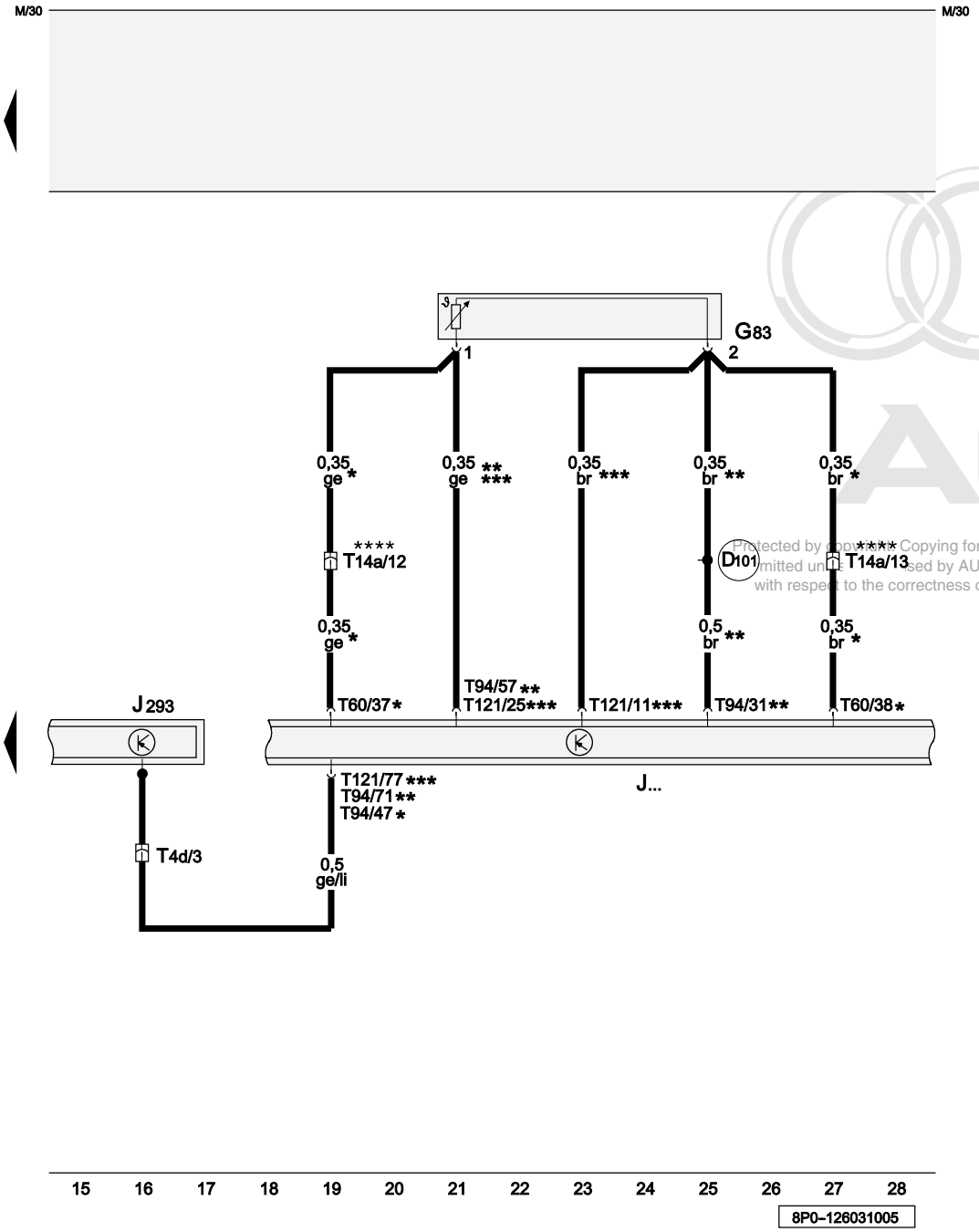


Radiator fan, radiator fan 2

J...	Engine management relay
J293	Radiator fan control unit
SA3	Fuse 3 on fuse holder A
SB24	Fuse 24 on fuse holder B
T2e	2-pin connector, black, on radiator fan (front end)
T4d	4-pin connector, black, on radiator fan (front end)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V7	Radiator fan
V177	Radiator fan 2
673	Earth point 3, on front of left longitudinal member
B321	Positive connection 7 (30a), in main wiring harness
*	for models with air conditioning system, engine codes BLF, BSE, BSF, BKC only
**	for models without trailer operation, engine codes BLY, BLR, BVY, BVZ only
***	not for countries with cold climate without air conditioning system with manual gearbox, countries with hot climate with air conditioning system and manual gearbox, automatic gearbox, engine code BLS
****	for models without air conditioning system, engine codes AZV, BKD, BMM, BKC only
#	no longer fitted, for models with engine codes BLS, BMM only, phased-in modification

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Radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J...	Engine control units
J293	Radiator fan control unit
T4d	4-pin connector, black, on radiator fan (front end)
T14a	14-pin connector, black, near relay carrier electronics box
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
D101	Connection 1, in engine compartment wiring harness
*	for models with engine codes AZV, BKD, BLS, BMM, BKC only
**	for models with engine codes BLF, BLY, BLR, BVY, BVZ only
***	for models with engine code BSE, BSF only
****	for models with engine code BKC only

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Radiator fan control 520 W (with and without air conditioning system)

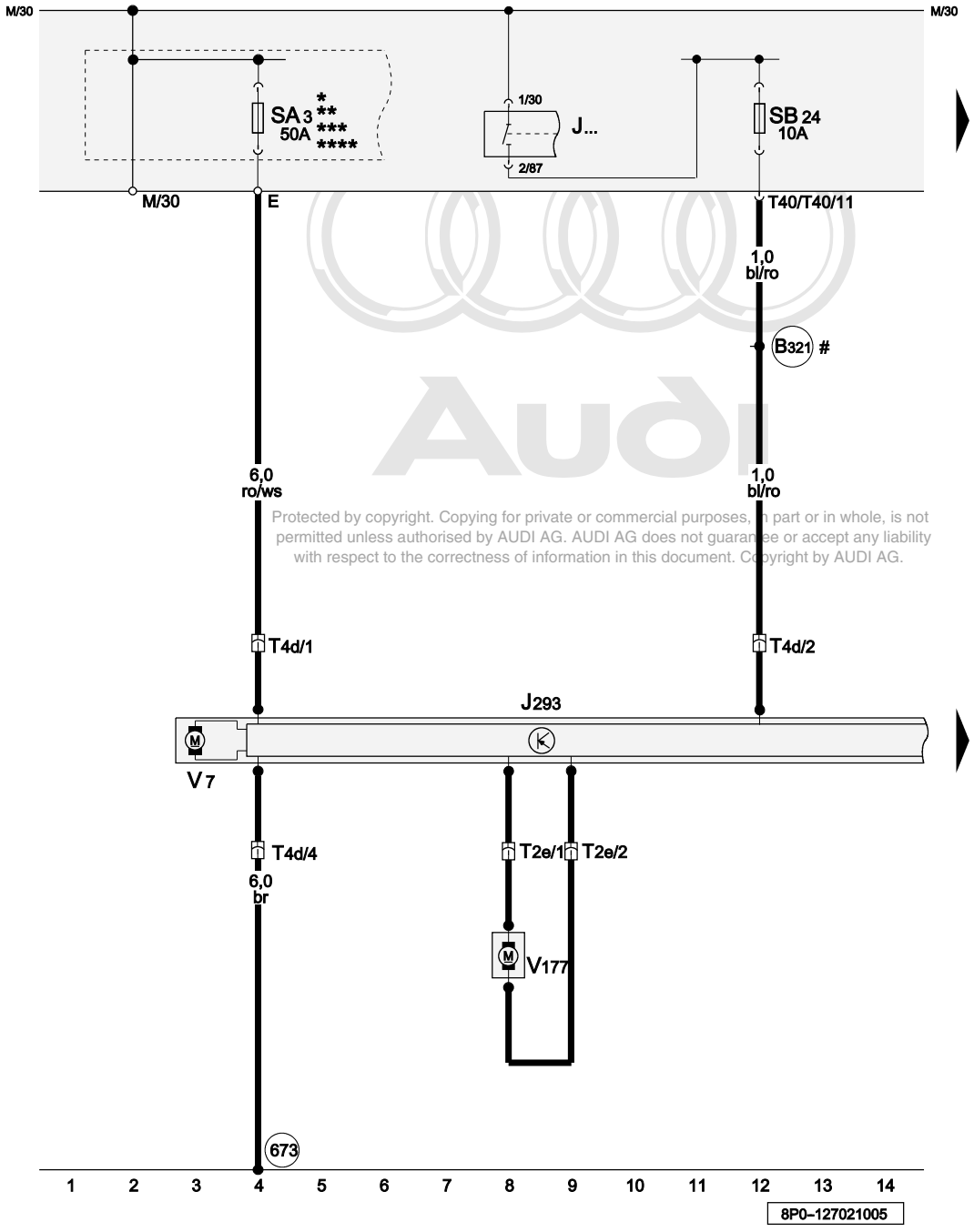
⇒ **Engine codes AZV, BKD, BLR, BLS, BLY, BMM, BMN, BUY, BVY, BVZ, BKC**
from model year 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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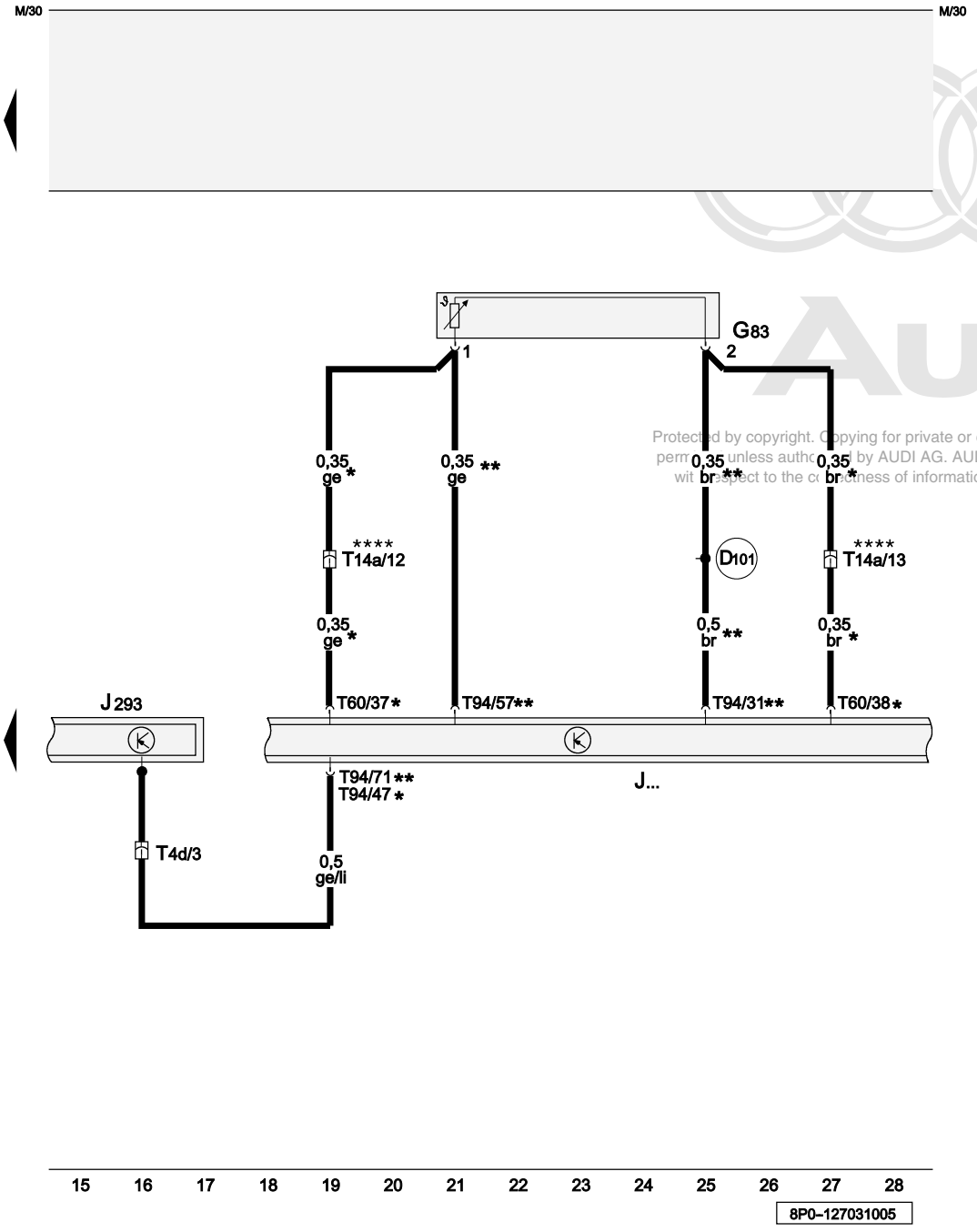


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Radiator fan, radiator fan 2

J...	Engine management relay
J293	Radiator fan control unit
SA3	Fuse 3 on fuse holder A
SB24	Fuse 24 on fuse holder B
T2e	2-pin connector, black, on radiator fan (front end)
T4d	4-pin connector, black, on radiator fan (front end)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V7	Radiator fan
V177	Radiator fan 2
673	Earth point 3, on front of left longitudinal member
B321	Positive connection 7 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	for models with air conditioning system, engine codes AZV, BKD, BMM, BLS, BKC, BMN, BUY only
***	only for countries with hot climate with air conditioning system and manual gearbox or automatic gearbox, engine codes BLY, BLR, BVY, BVZ
****	for models with trailer operation, engine codes BLY, BLR, BVY, BVZ only
#	no longer fitted, for models with engine codes BLS, BMM, BMN, BUY only, phased-in modification

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Radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J...	Engine control units
J293	Radiator fan control unit
T4d	4-pin connector, black, on radiator fan (front end)
T14a	14-pin connector, black, near relay carrier electronics box
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D101	Connection 1, in engine compartment wiring harness
*	for models with engine codes AZV, BKD, BMM, BLS, BKC, BMN, BUY only
**	for models with engine codes BLY, BLR, BVY, BVZ only
****	for models with engine code BKC only

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Radiator fan control 520 W (with and without air conditioning system)

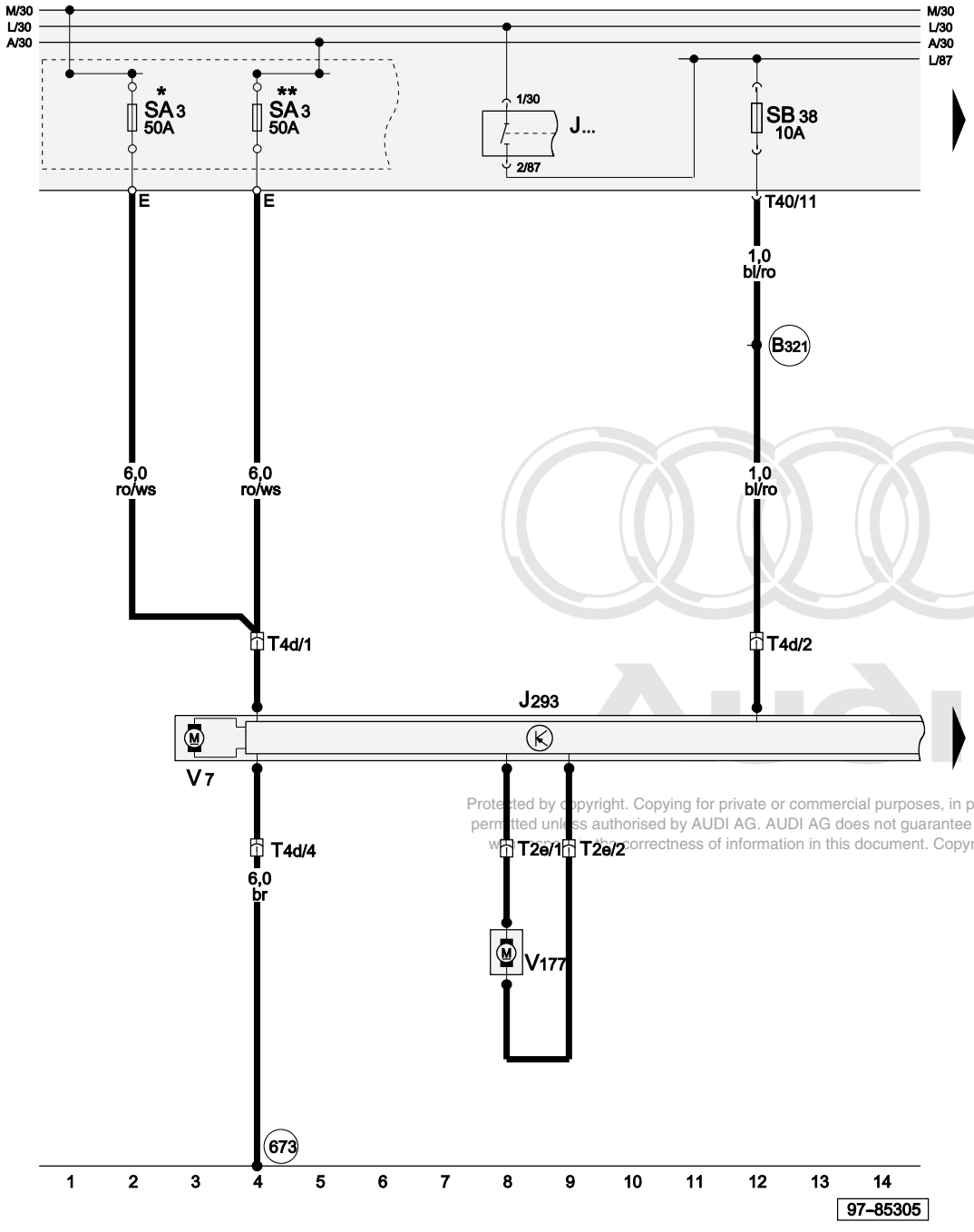
⇒ **Engine codes AXX, BMJ, BPY, BUB, BWA, BHZ, BZC**
from model year 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

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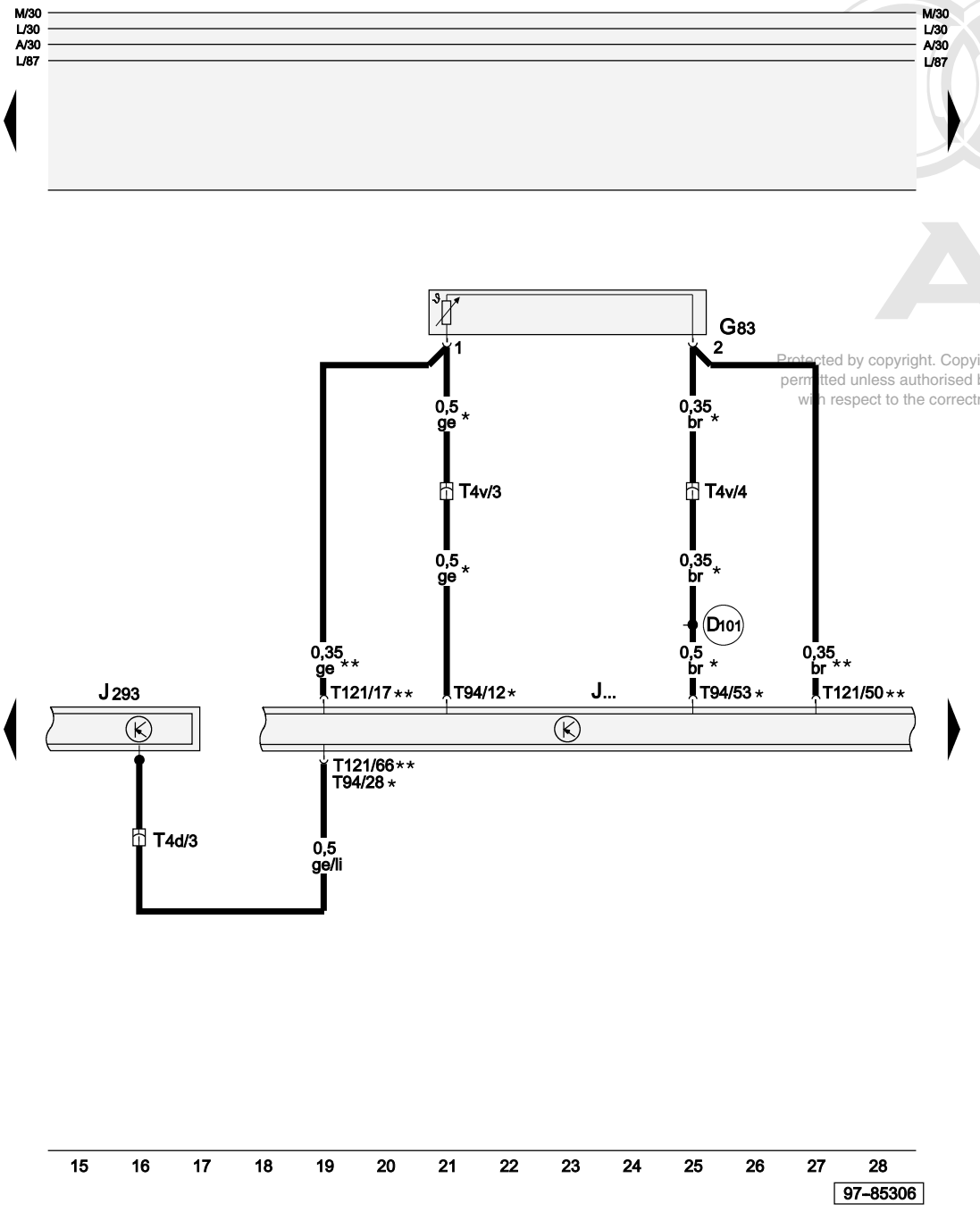


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Radiator fan, radiator fan 2

J...	Engine management relay
J293	Radiator fan control unit
SA3	Fuse 3 on fuse holder A
SB38	Fuse 38 on fuse holder B
T2e	2-pin connector, black, on radiator fan (front end)
T4d	4-pin connector, black, on radiator fan (front end)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V7	Radiator fan
V177	Radiator fan 2
(673)	Earth point 3, on front of left longitudinal member
(B321)	Positive connection 7 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment, engine codes AXX, BPY, BWA, BHZ, BZC
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment, engine codes BMJ, BUB

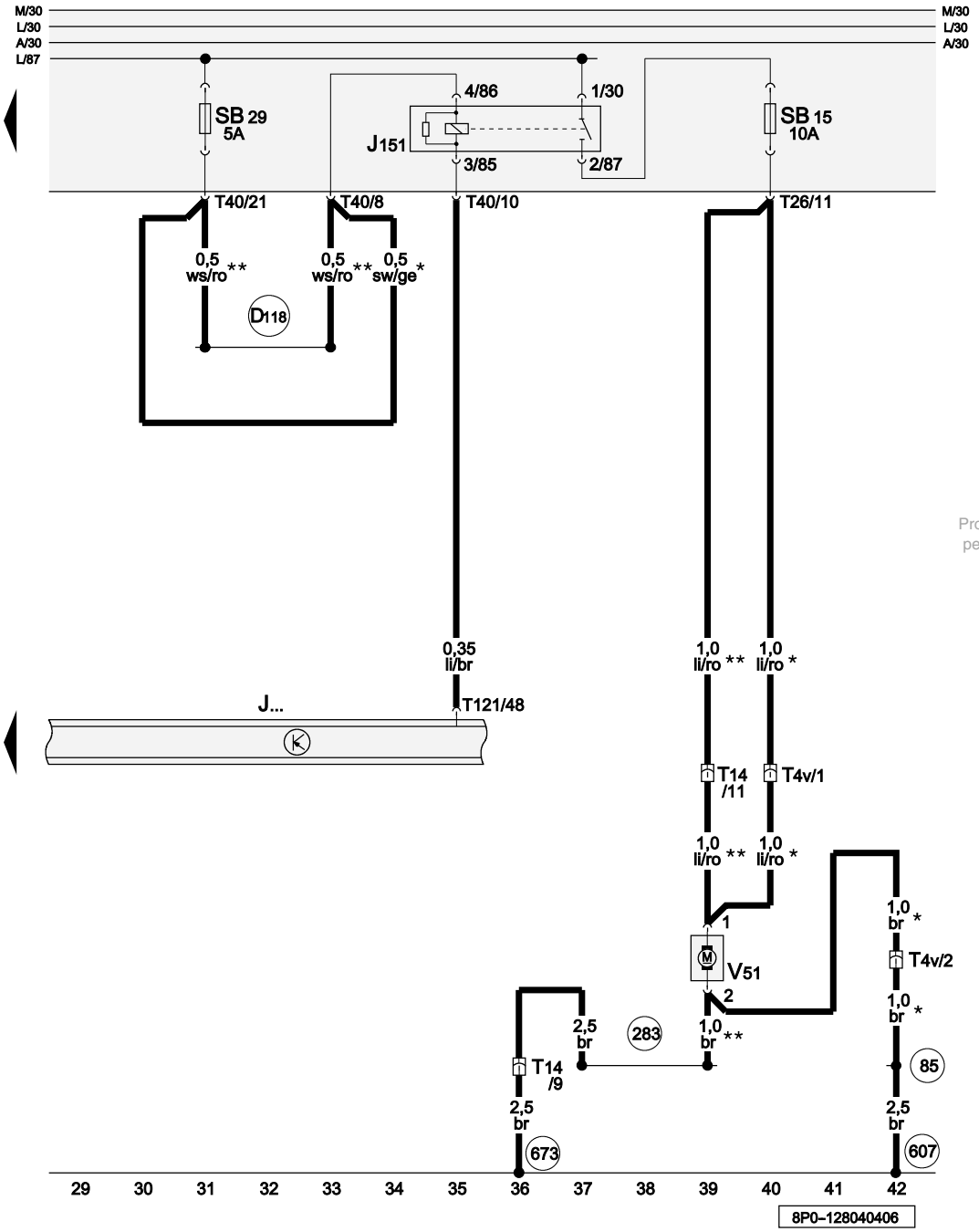


Radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J...	Engine control units
J293	Radiator fan control unit
T4d	4-pin connector, black, on radiator fan (front end)
T4v	4-pin connector, black, near longitudinal member, front left
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
D101	Connection 1, in engine compartment wiring harness
*	for models with engine codes AXX, BPY, BWA, BHZ, BZC only
**	for models with engine codes BMJ, BUB only

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ro	=	red
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or	=	orange
rs	=	pink



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rs = pink

Continued coolant circulation pump

J...	Engine control units
J151	Continued coolant circulation relay
SB15	Fuse 15 on fuse holder B
SB29	Fuse 29 on fuse holder B
T4v	4-pin connector, black, near longitudinal member, front left
T14	14-pin connector, black, near longitudinal member, front left
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T121	121-pin connector, black, on engine control unit
V51	Continued coolant circulation pump
85	Earth connection 1, in engine compartment wiring harness
283	Earth connection 2, in engine harness
607	Earth point, on left in plenum chamber
673	Earth point 3, on front of left longitudinal member
D118	Connection 16, in engine compartment wiring harness
*	for models with engine codes AXX, BPY, BWA, BHZ, BZC only
**	for models with engine codes BMJ, BUB only

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Direct shift gearbox (02E)

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

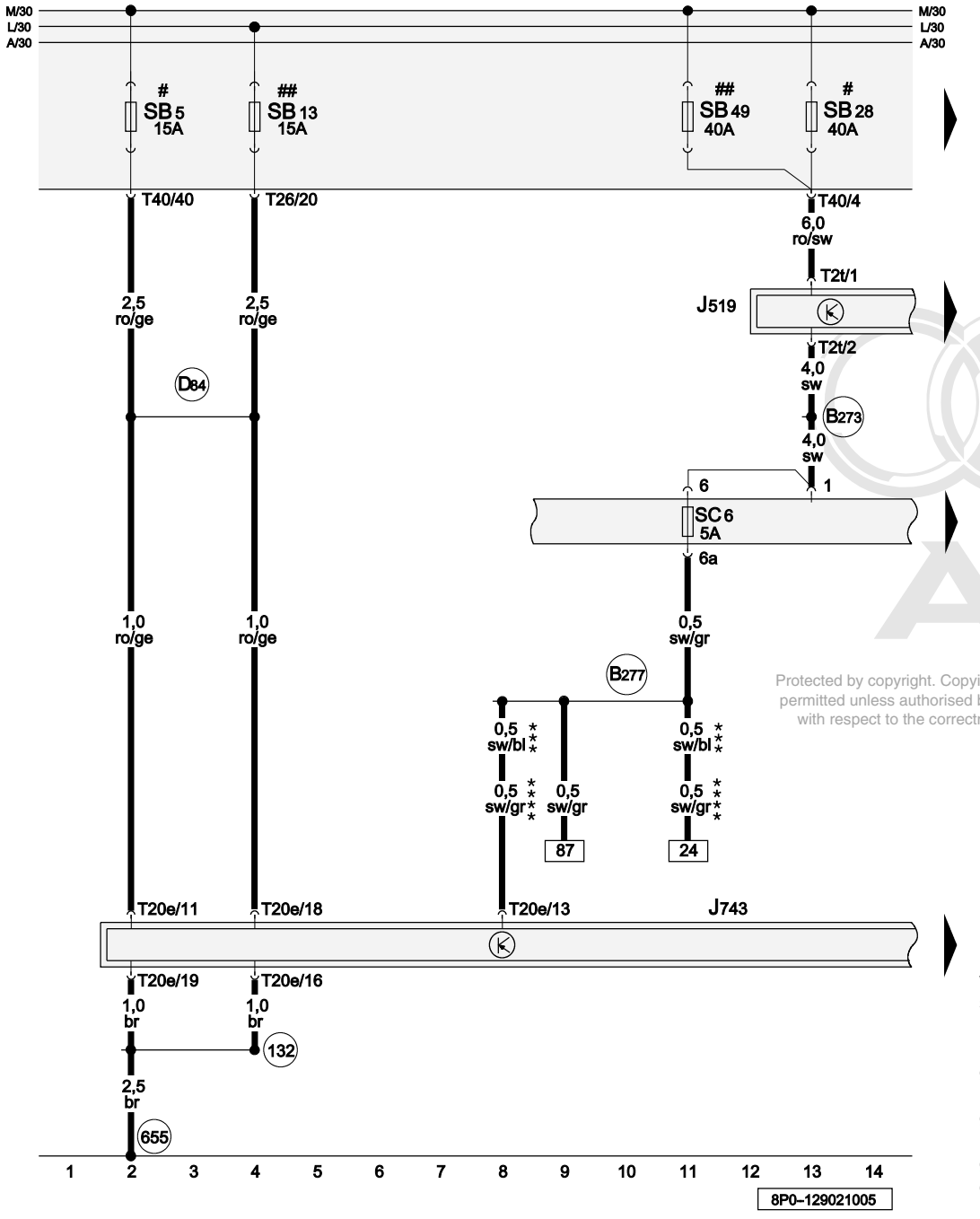
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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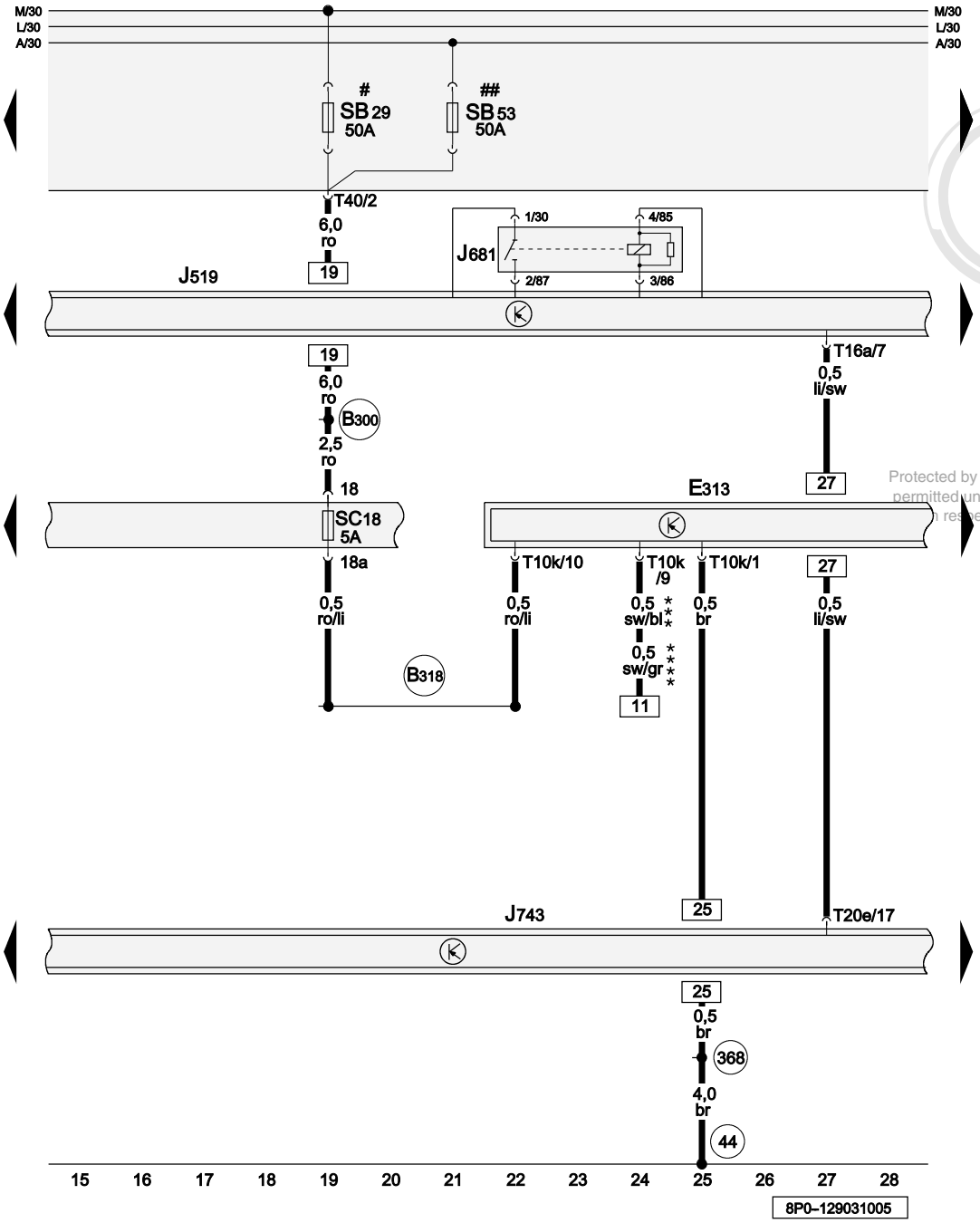


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Fuses on fuse holder

J519	Onboard supply control unit
J743	Mechatronics for direct shift gearbox
SB5	Fuse 5 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC6	Fuse 6 on fuse holder C
T2t	2-pin connector, black (connector L)
T20e	20-pin connector, black (connector A)
T26	26-pin connector, black, on electronics box in engine compartment (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
132	Earth connection 3, in engine compartment wiring harness
655	Earth point, on left headlight
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
D84	Connection (automatic gearbox), in engine compartment wiring harness
***	No longer fitted, phased-in modification
****	phased-in modification
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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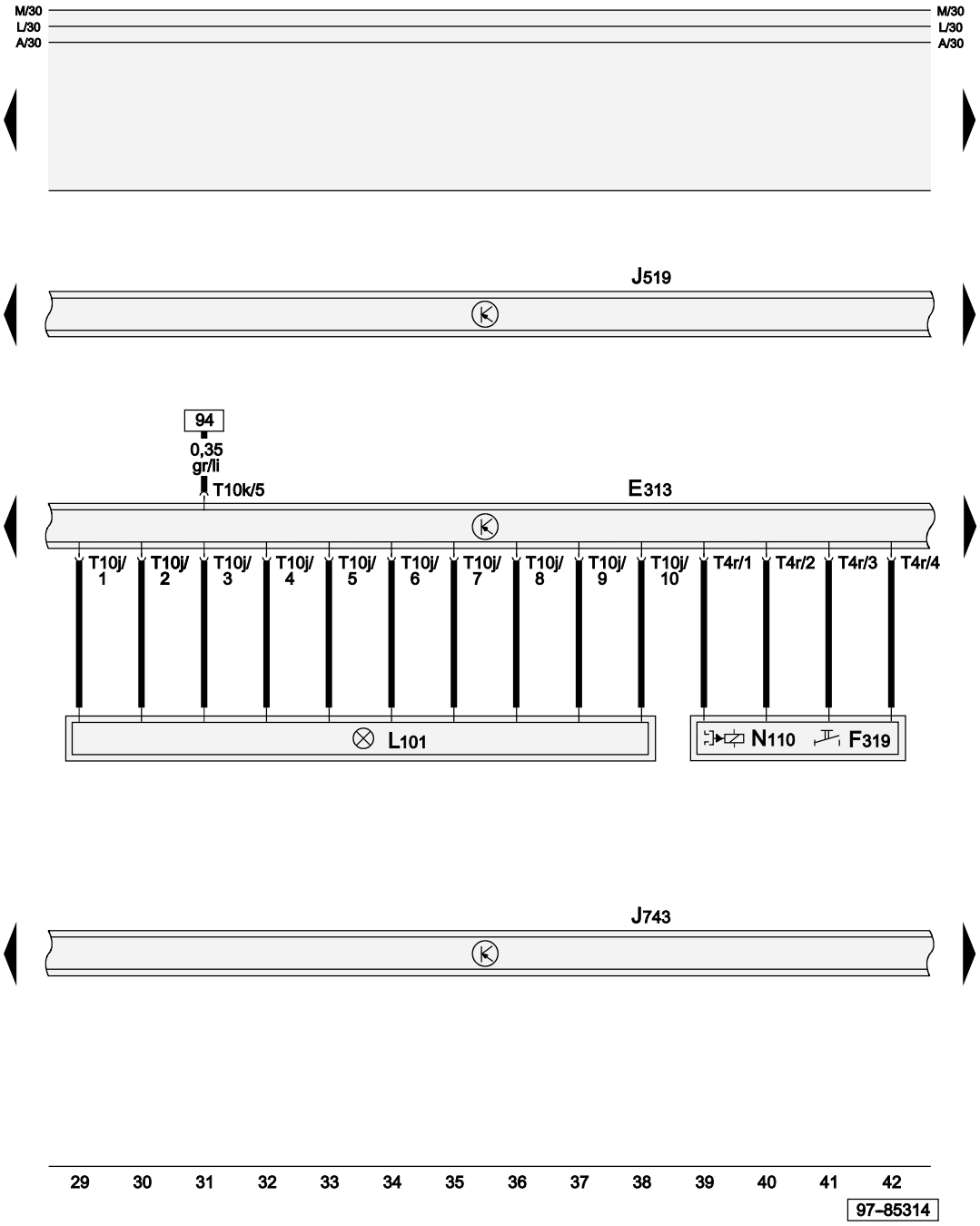


Selector lever, fuses on fuse holder

E313	Selector lever
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
J743	Mechatronics for direct shift gearbox
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC18	Fuse 18 on fuse holder C
T10k	10-pin connector, black, on selector lever
T16a	16-pin connector, black (connector E)
T20e	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
B318	Positive connection 4 (30a), in main wiring harness
***	No longer fitted, phased-in modification
****	phased-in modification
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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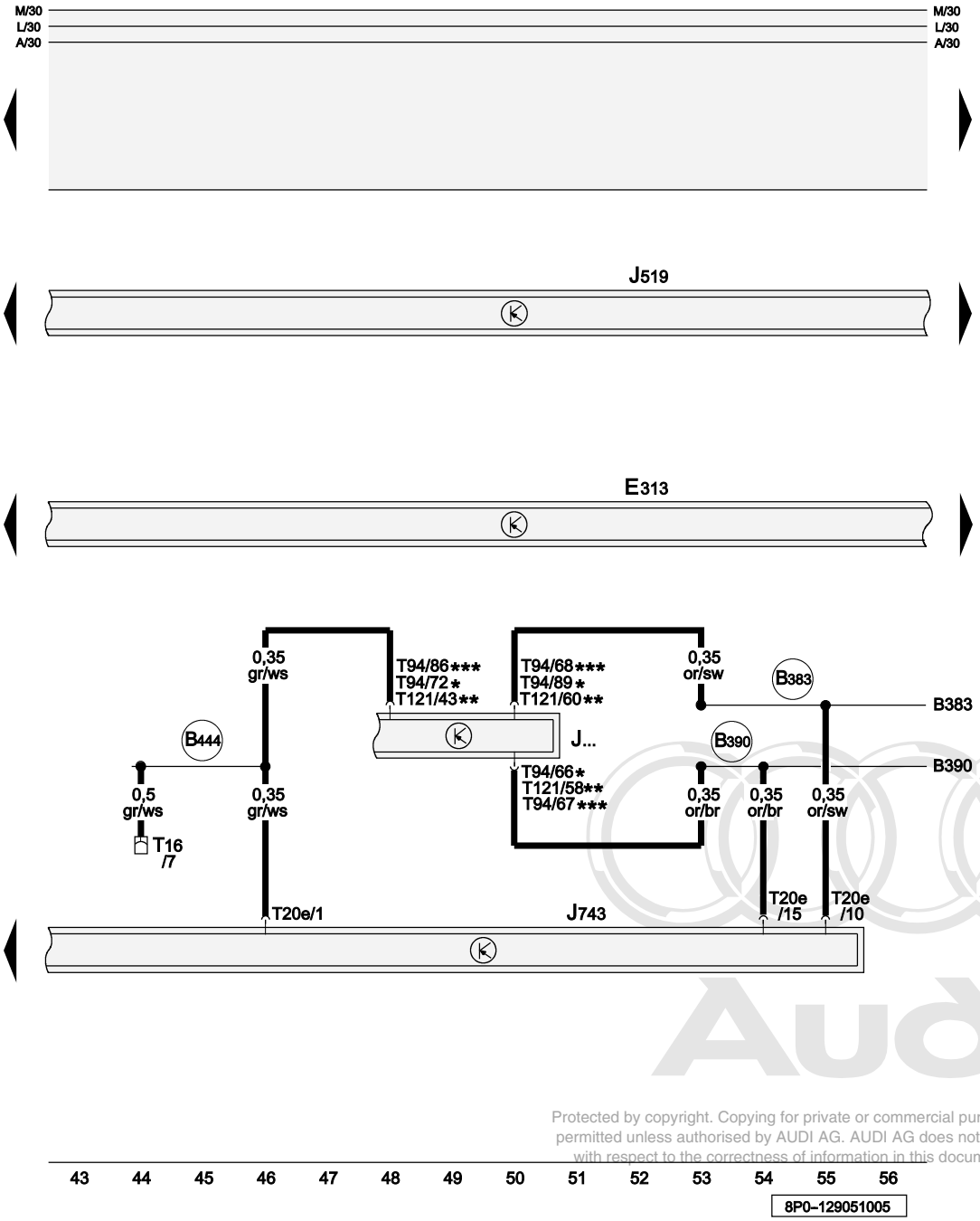


Selector lever, selector lever locked in position P switch, selector lever lock solenoid

E313	Selector lever
F319	Selector lever locked in position P switch
J519	Onboard supply control unit
J743	Mechatronics for direct shift gearbox
L101	Selector lever display illumination bulb
N110	Selector lever lock solenoid
T4r	4-pin connector, on selector lever
T10j	10-pin connector, black, on selector lever
T10k	10-pin connector, black, on selector lever

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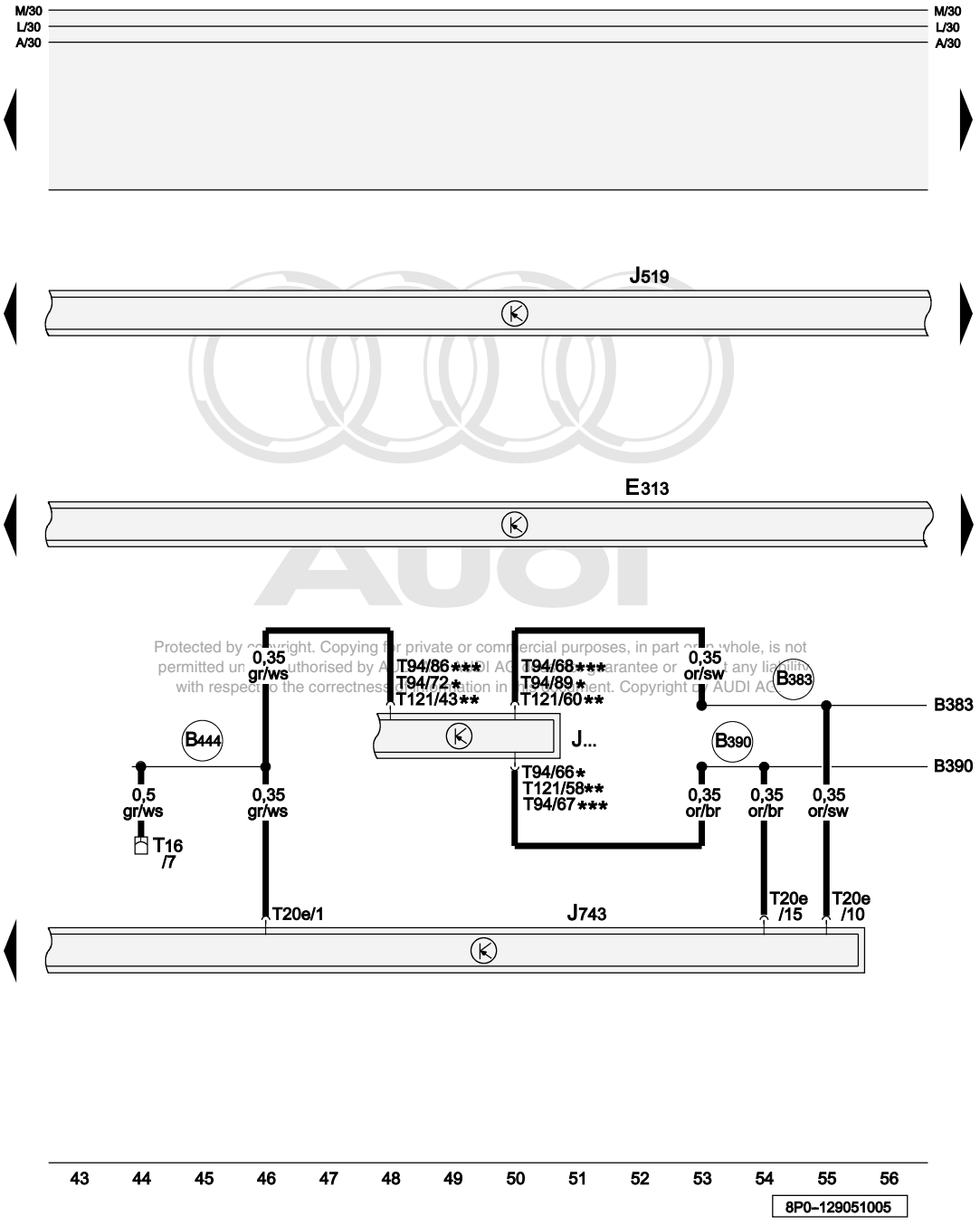


Drive train CAN bus, diagnosis, selector lever

E313	Selector lever
J...	Engine control units
J519	Onboard supply control unit
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with engine codes AZV, BKD, BMM, BMN, BUY, BKC, BLS only
**	for models with engine codes BMJ, BUB only
***	for models with engine codes AXX, BPY, BWA only

ws	=	white
sw	=	black
ro	=	red
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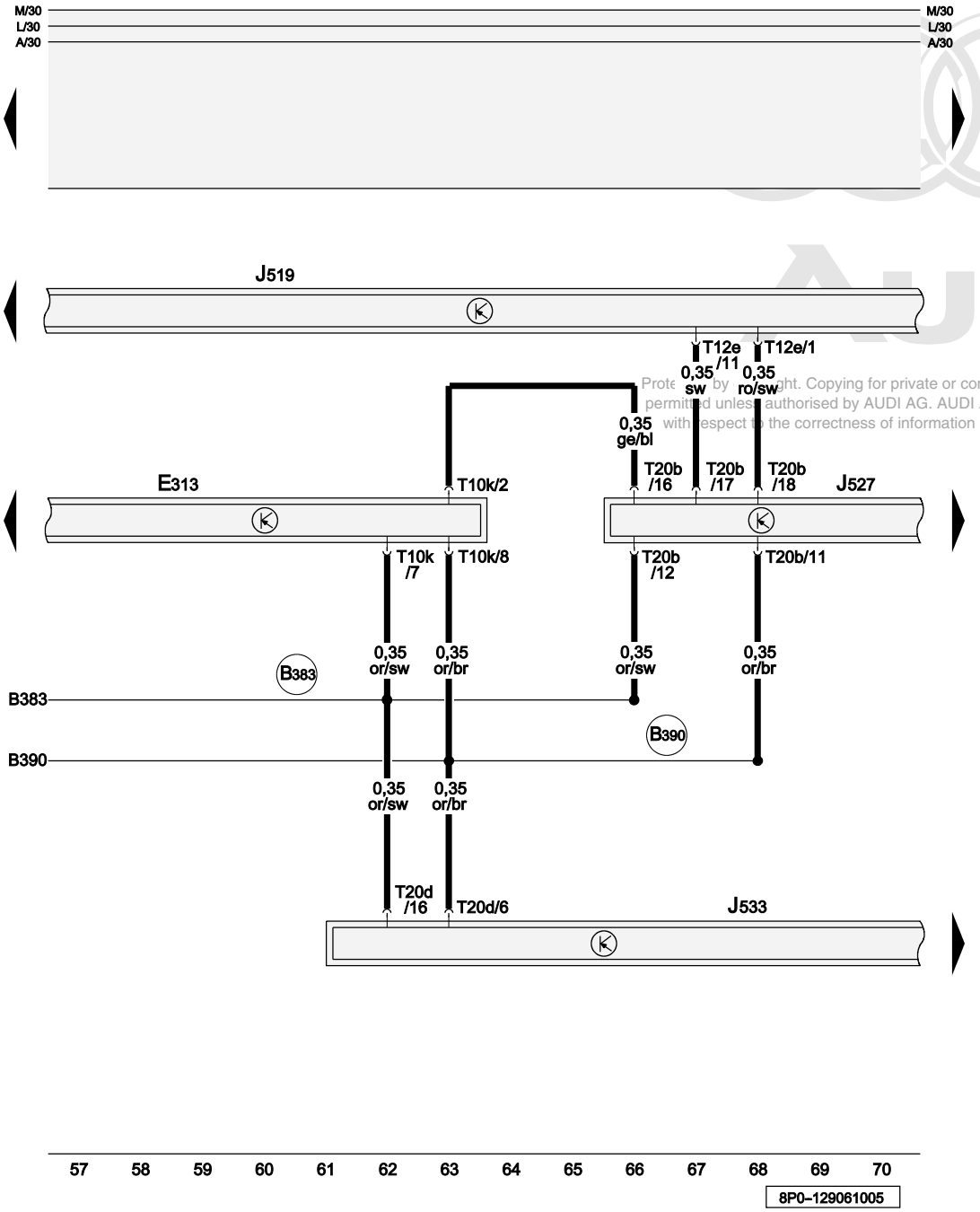


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Drive train CAN bus, diagnosis, selector lever

E313	Selector lever
J...	Engine control units
J519	Onboard supply control unit
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with engine codes AZV, BKD, BMM, BKC, BLS only
**	for models with engine codes BMJ, BUB only
***	for models with engine codes AXX, BPY, BWA only

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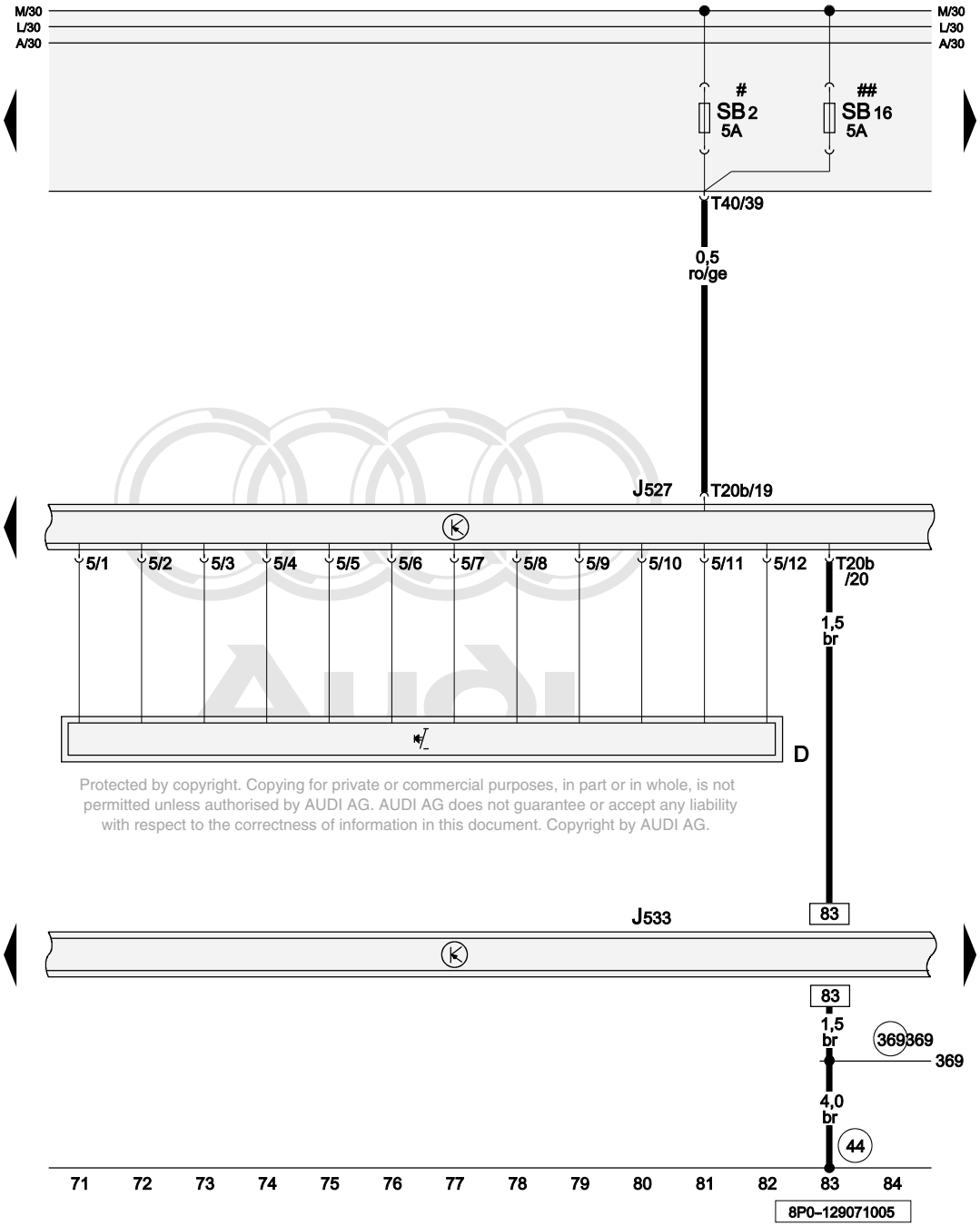


Selector lever, drive train CAN bus

E313	Selector lever
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T10k	10-pin connector, black, on selector lever
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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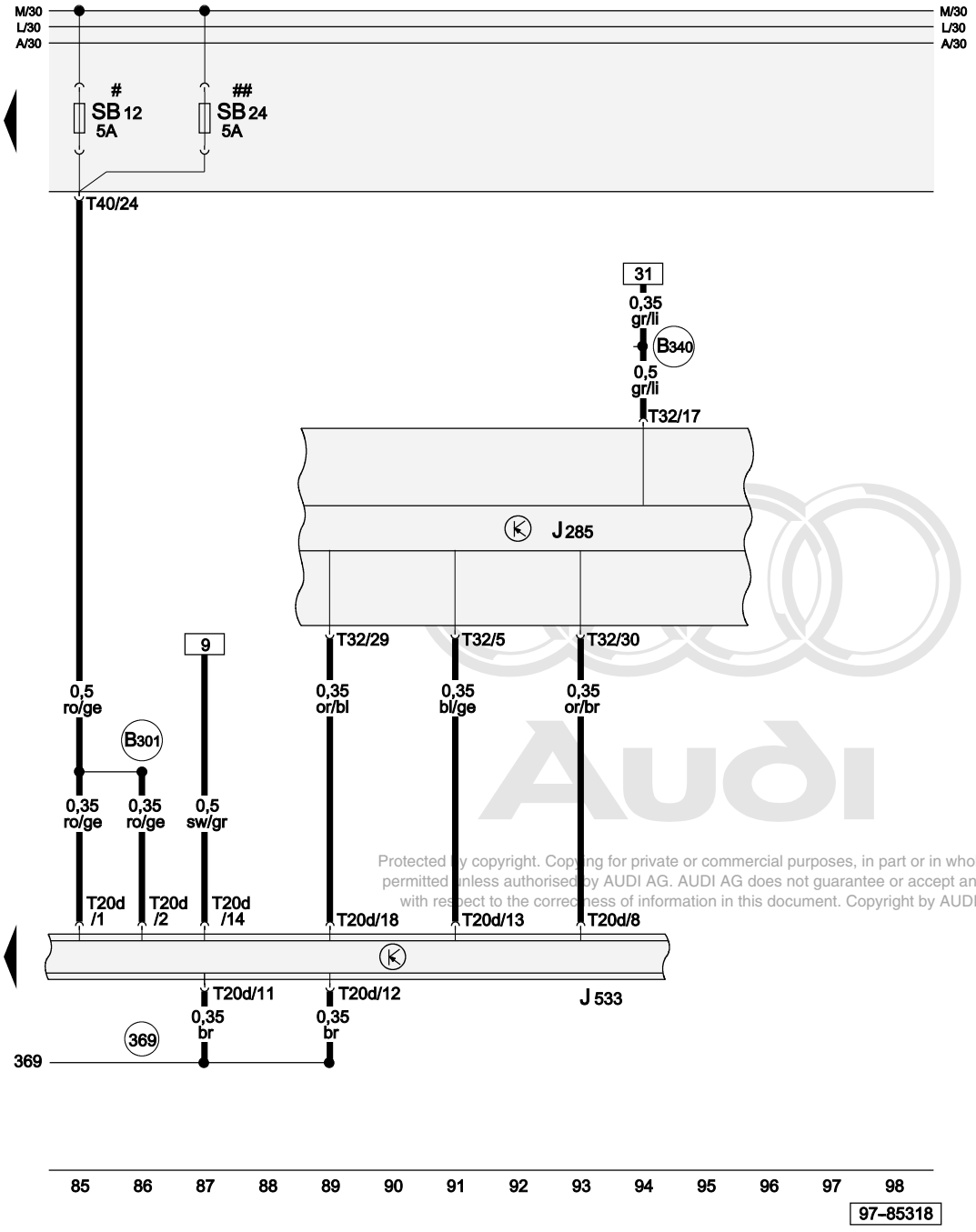


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Ignition/starter switch

D	Ignition/starter switch
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(44)	Earth point, lower part of left A-pillar
(369)	Earth connection 4, in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws	=	white
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Data bus diagnostic interface, control unit in dash panel insert

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
SB12	Fuse 12 on fuse holder B
SB24	Fuse 24 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

Trailer operation

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

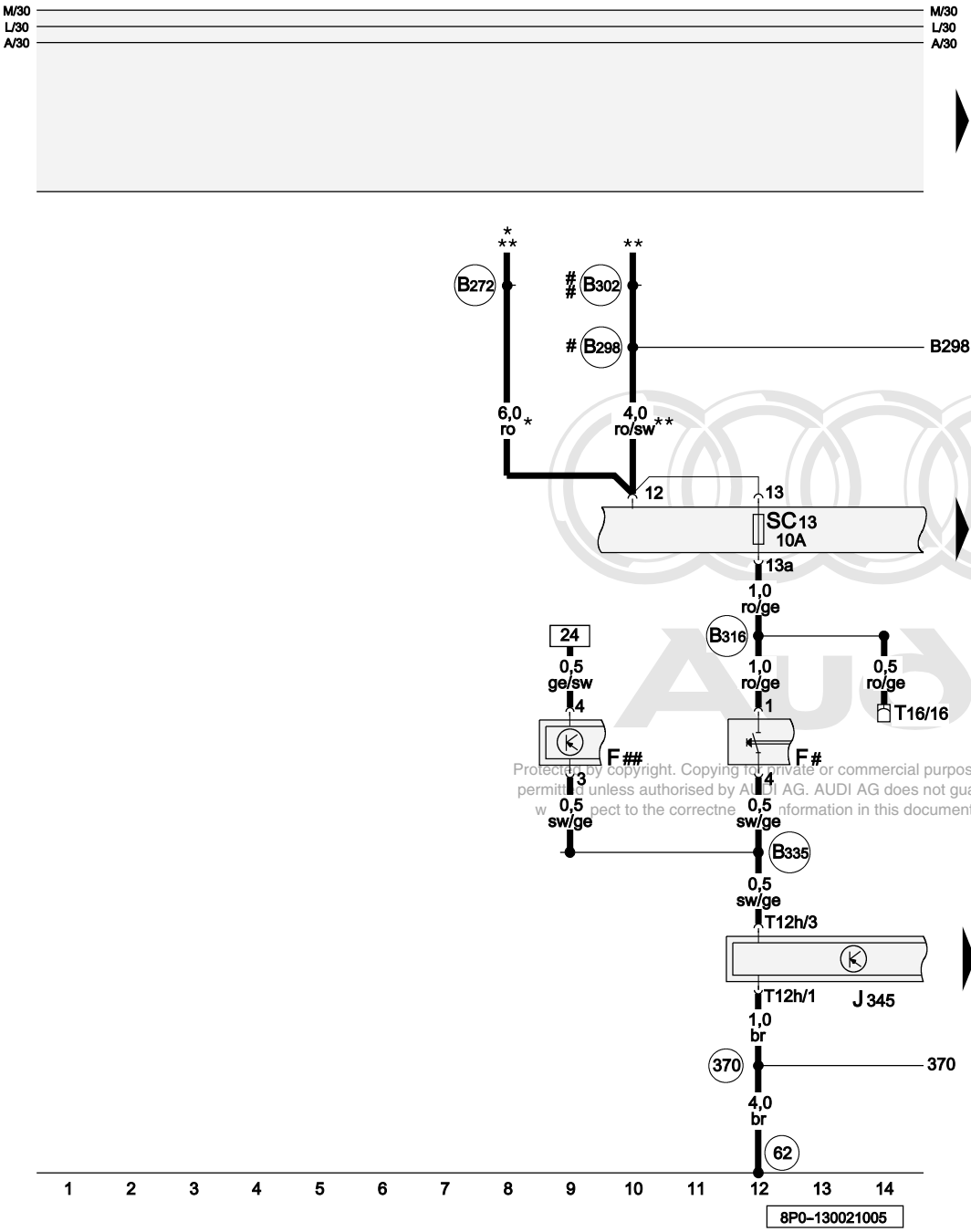
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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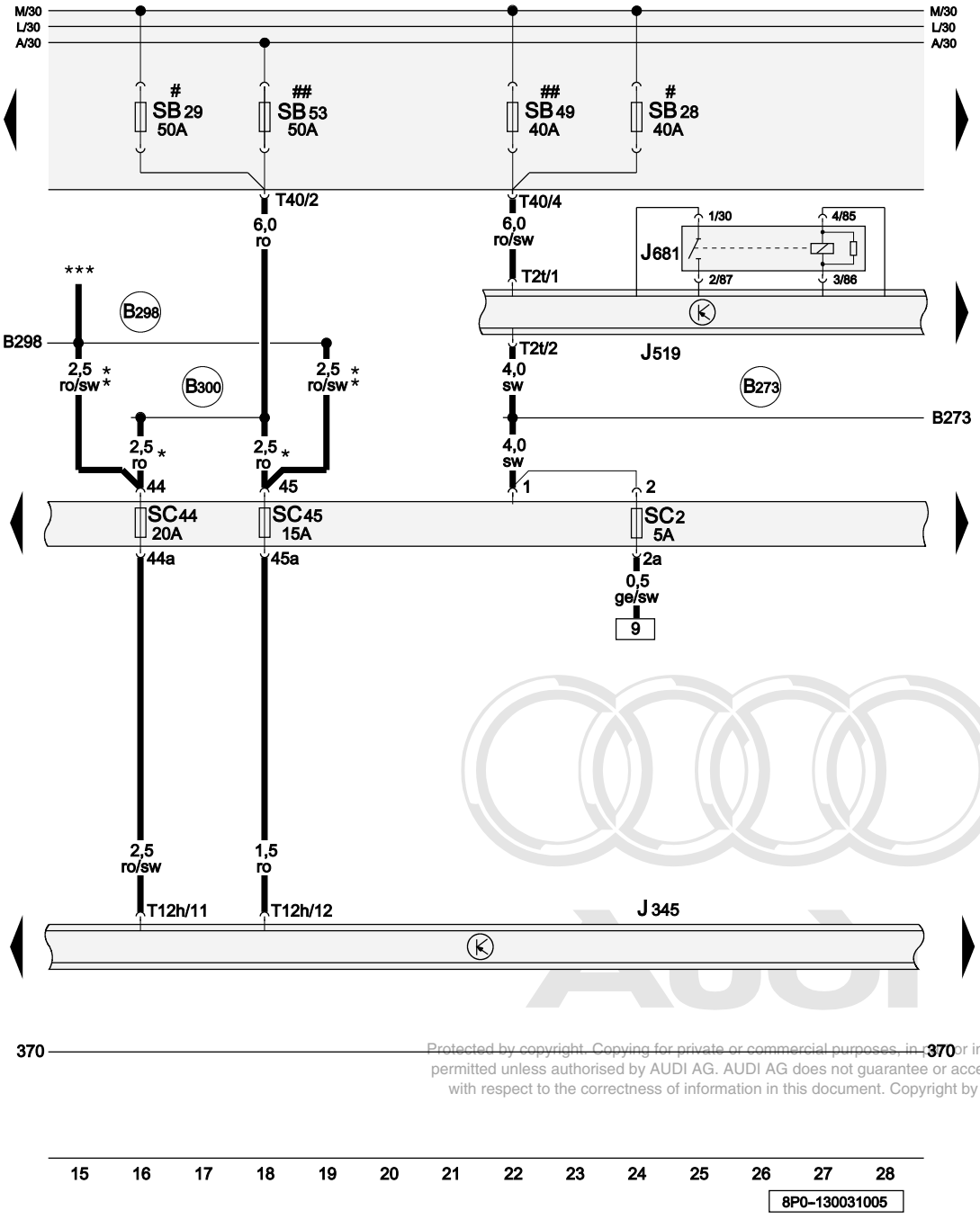


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Fuse, trailer detector control unit

F	Brake light switch
J345	Trailer detector control unit
SC13	Fuse 13 on fuse holder C
T12h	12-pin connector, red (connector B)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
62	Earth point, right C-pillar
370	Earth connection 5, in main wiring harness
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B302	Positive connection 6 (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
#	Is dropped from November 2005
##	applicable from November 2005

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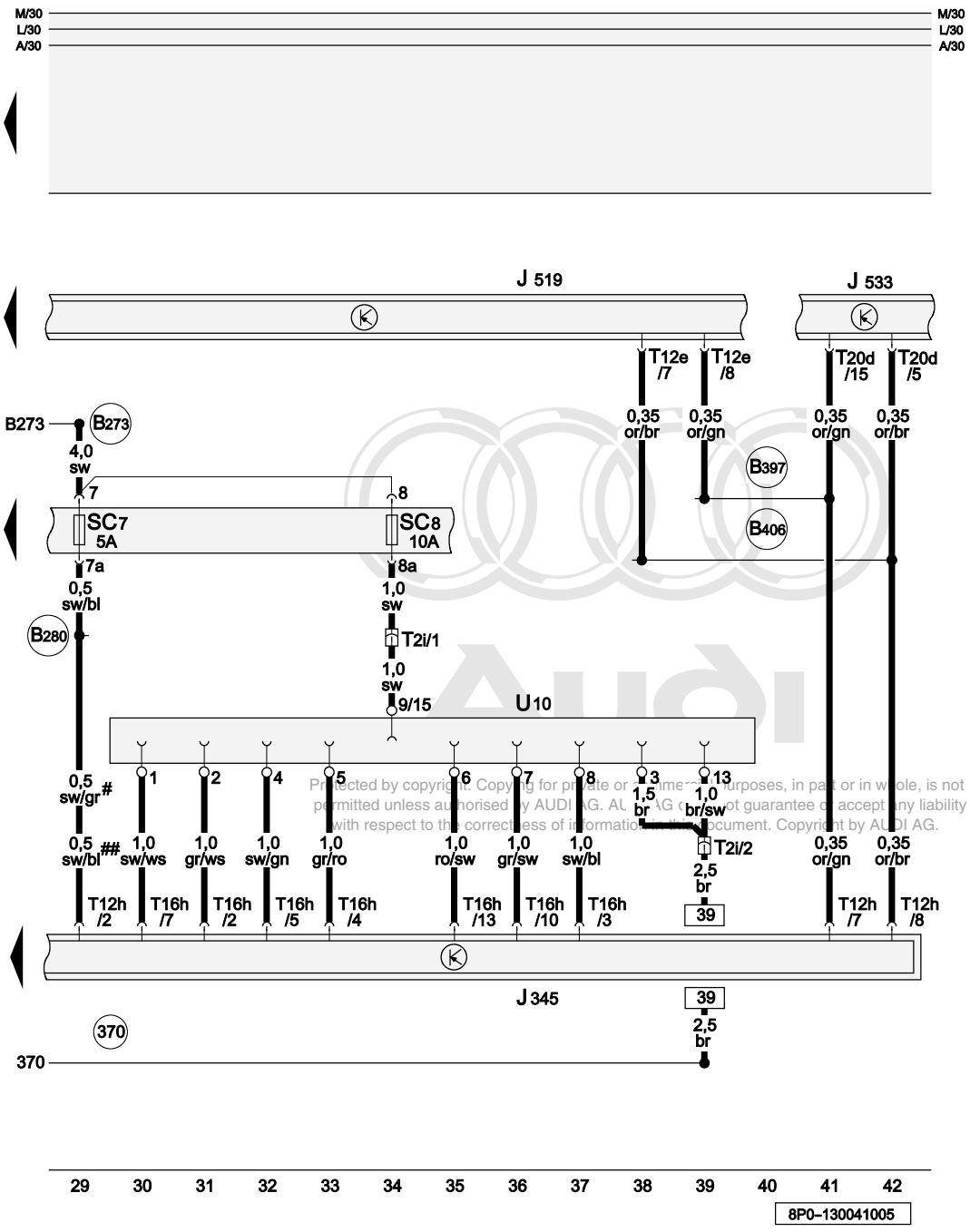


Fuses, trailer detector control unit

J345	Trailer detector control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC2	Fuse 2 on fuse holder C
SC44	Fuse 44 on fuse holder C
SC45	Fuse 45 on fuse holder C
T2t	2-pin connector, black (connector L)
T12h	12-pin connector, red (connector B)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
*	for models with battery in engine compartment only
**	for models with battery in luggage compartment only
***	⇒ applicable Current Flow Diagram with battery in luggage compartment
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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Trailer detector control unit, trailer socket

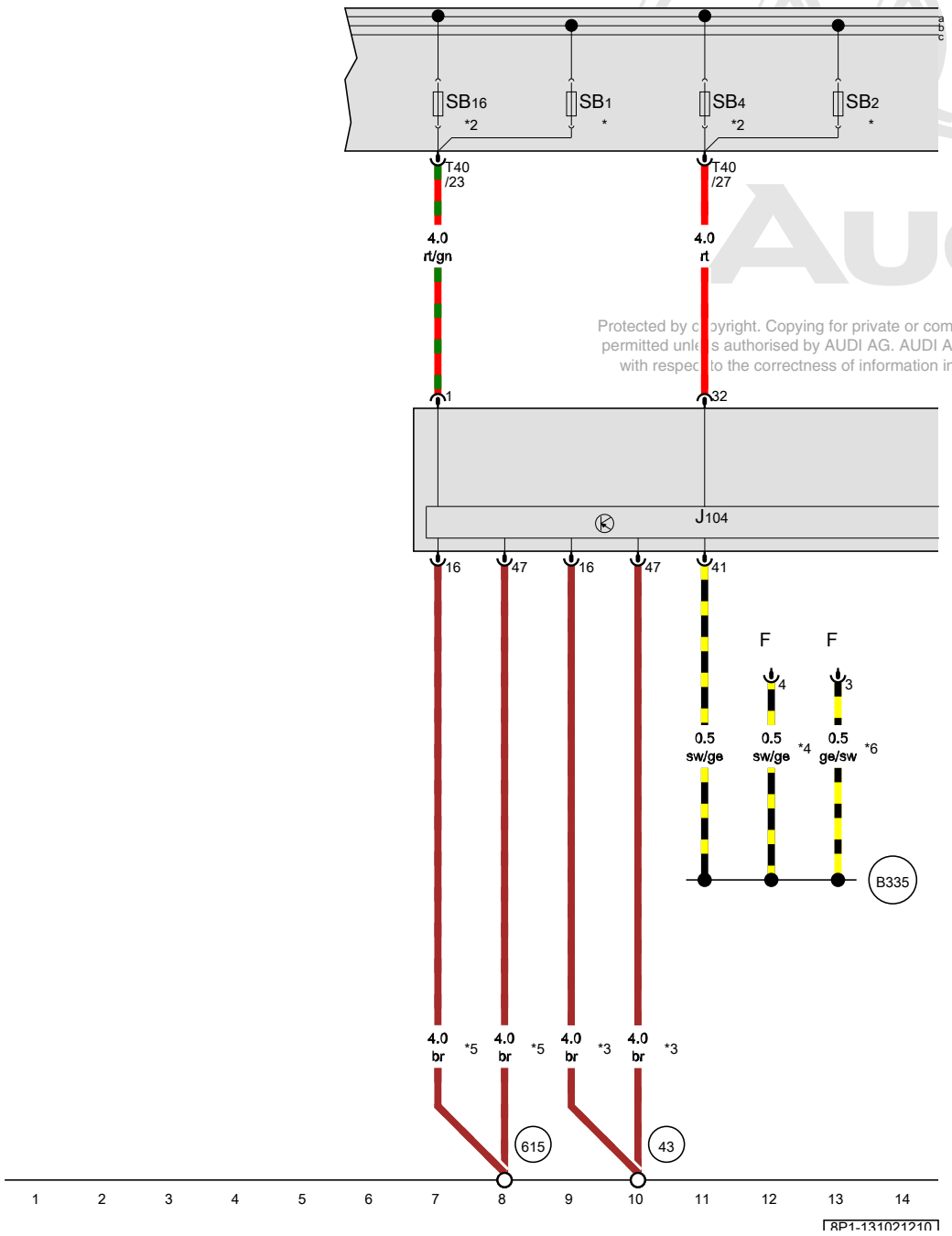
J345	Trailer detector control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
SC7	Fuse 7 on fuse holder C
SC8	Fuse 8 on fuse holder C
T2i	2-pin connector, black, near trailer socket
T12e	12-pin connector, black (connector G)
T12h	12-pin connector, red (connector B)
T16h	16-pin connector, black (connector A, connector locking purple)
T20d	20-pin connector, yellow (connector A)
U10	Trailer socket
370	Earth connection 5, in main wiring harness
B273	Positive connection (15), in main wiring harness
B280	Positive connection 4 (15a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	No longer fitted, phased-in modification
##	phased-in modification

ws	=	white
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Anti-lock brake system (ABS) with electronic stabilisation program (ESP), traction control system (TCS) and with no hydraulic brake servo (HBS)

From May 2005

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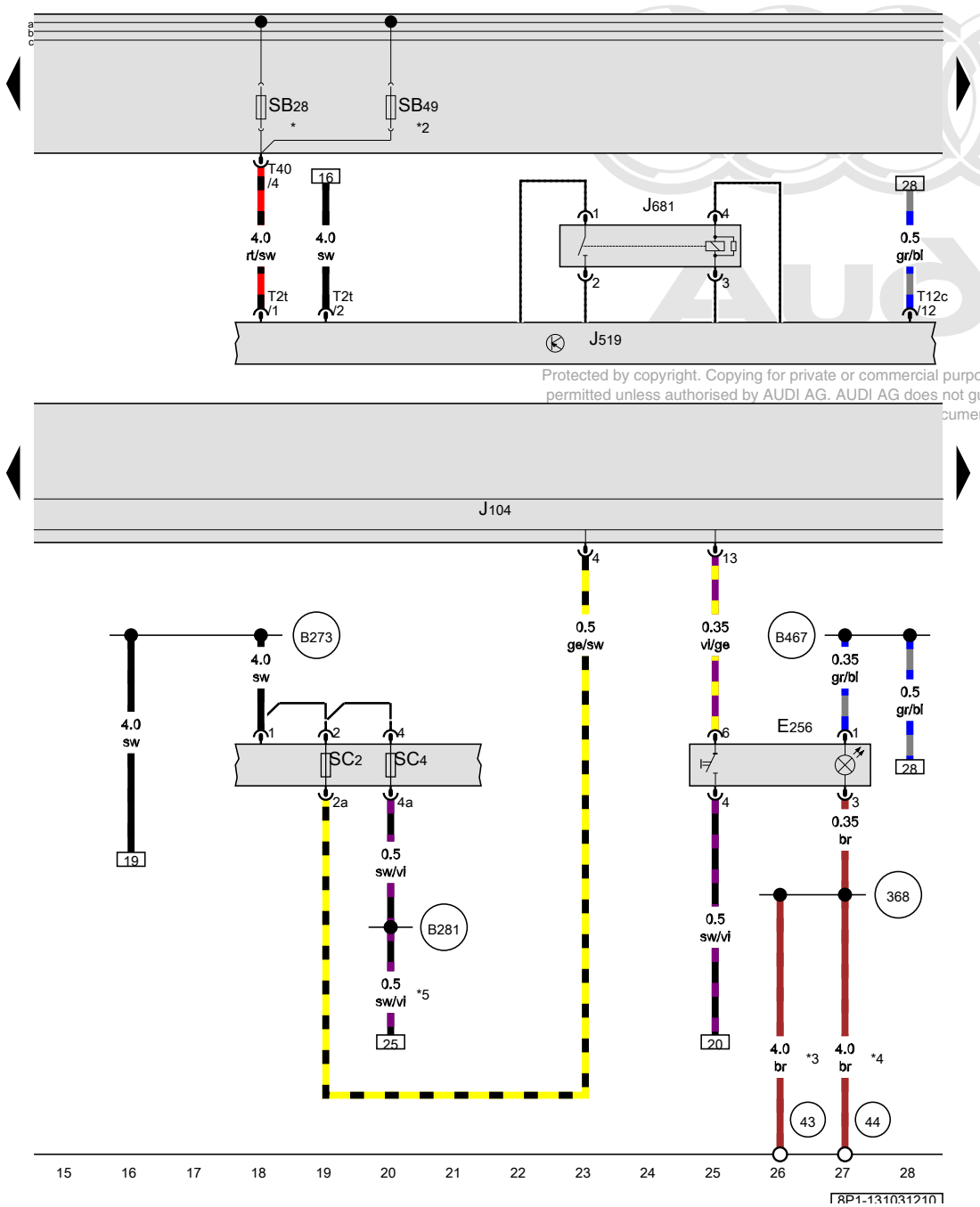


ABS control unit

F	Brake light switch
J104	ABS control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB16	Fuse 16 on fuse holder B
T40	40-pin connector
43	Earth point, lower part of right A-pillar
615	Earth point, on left suspension strut
B335	Connection 1 (54), in main wiring harness
*	E-box high
*2	E-box low
*3	Only left-hand drive models
*4	Up to September 2005
*5	Only right-hand drive models
*6	From November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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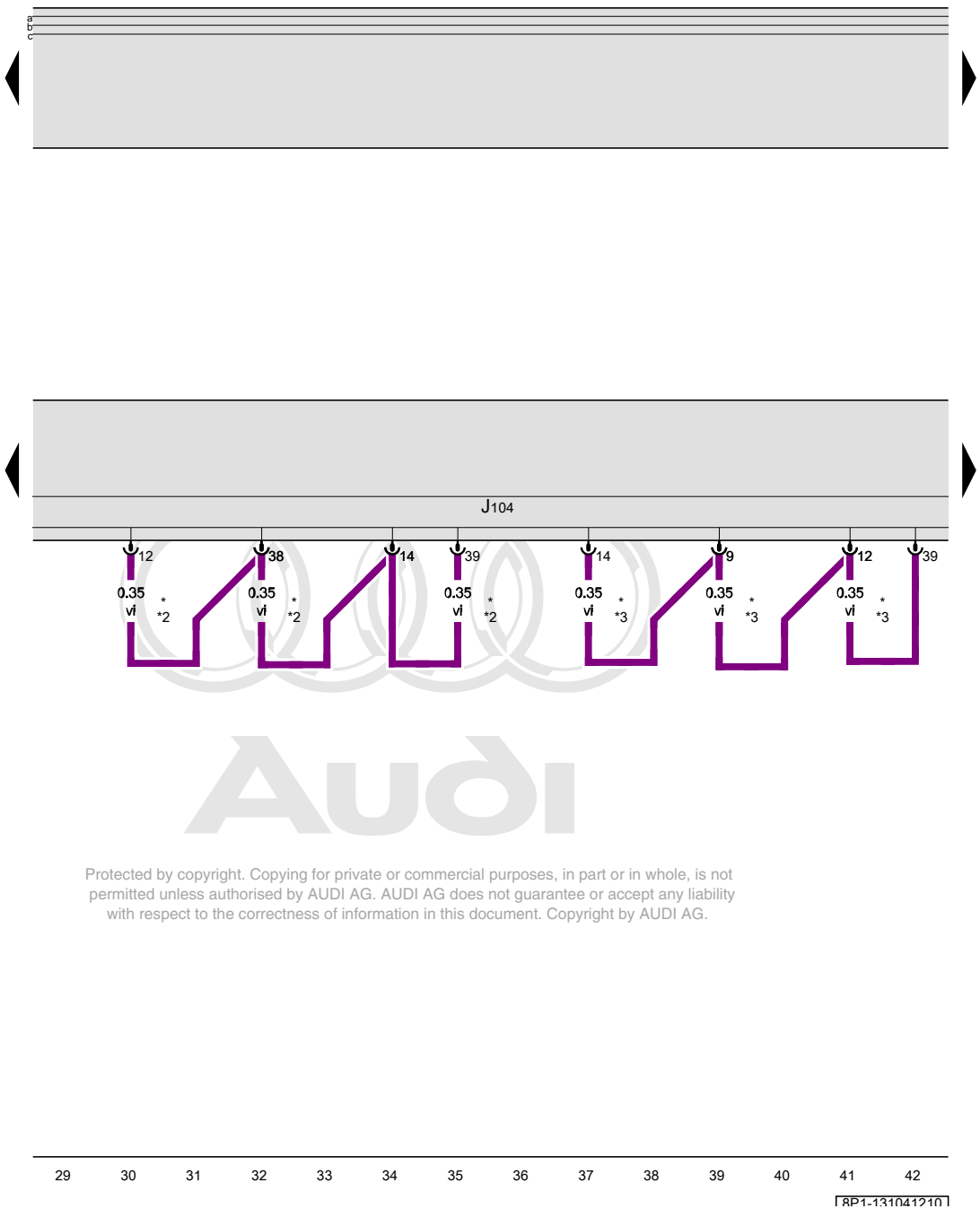


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TCS and ESP button, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

E256	TCS and ESP button
J104	ABS control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2t	2-pin connector
T12c	12-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B281	Positive connection 5 (15a) in main wiring harness
B467	Connection 3, in main wiring harness
*	E-box low
*2	E-box high
*3	Only right-hand drive models
*4	Only left-hand drive models
*5	Wiring colour depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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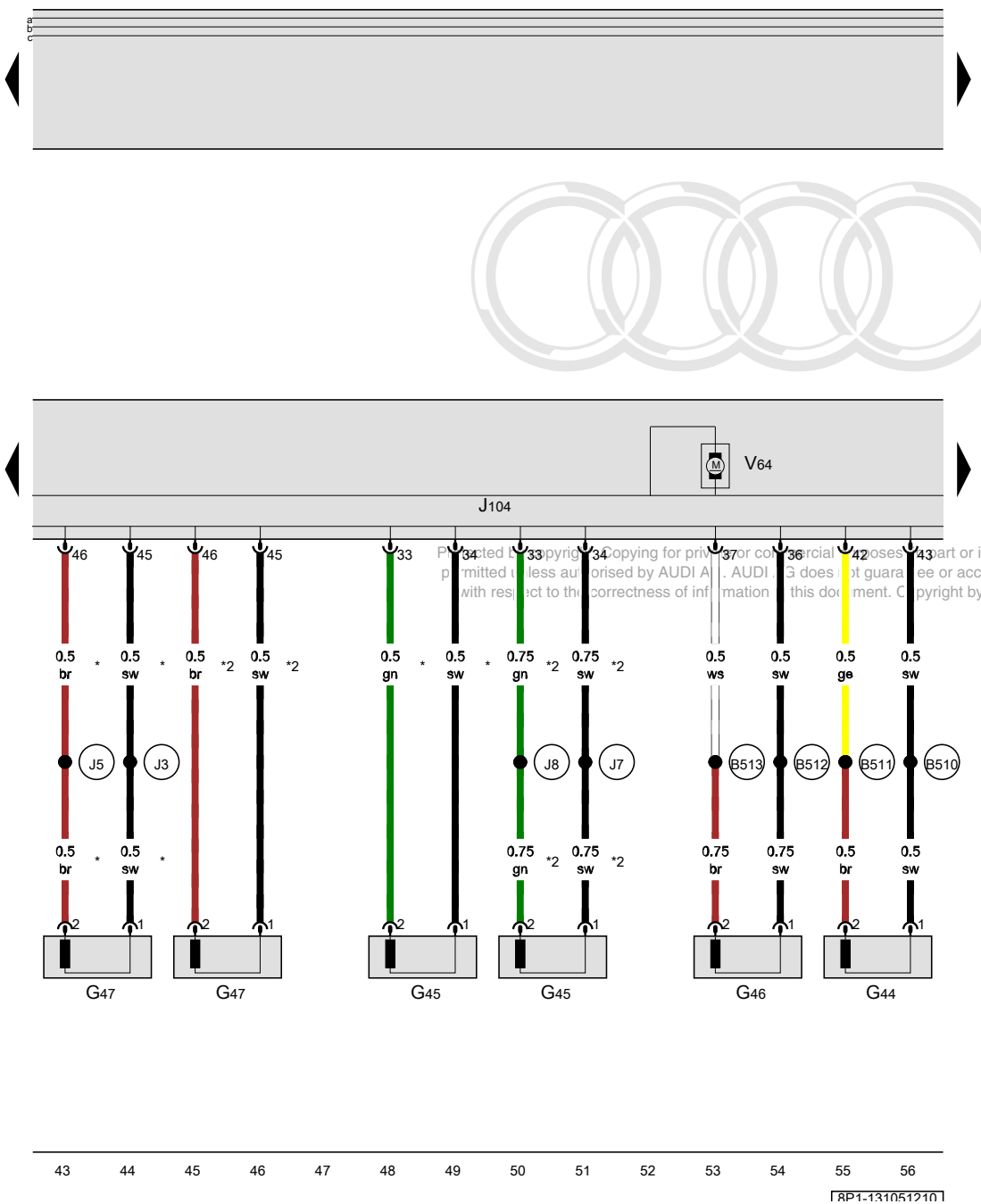


ABS control unit

J104	ABS control unit
*	According to equipment
*2	gradual introduction
*3	Gradually discontinued

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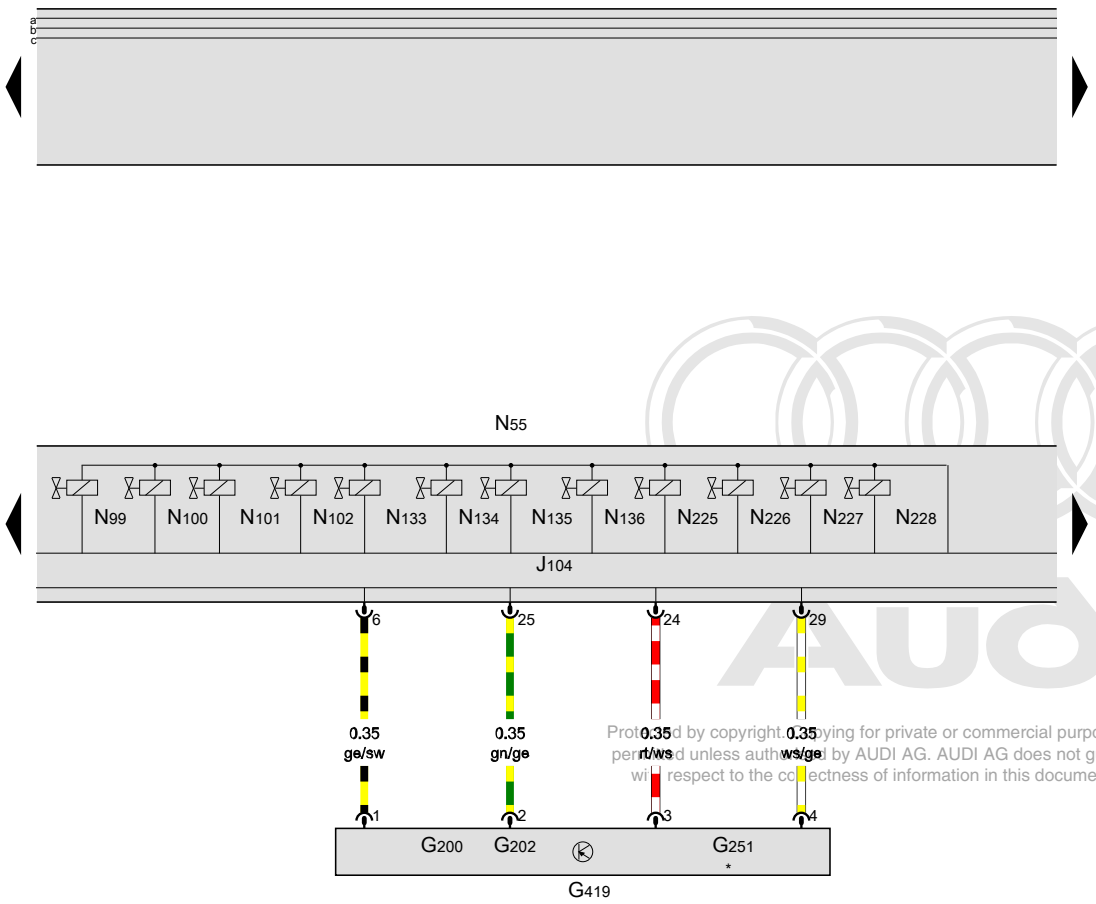


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Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
V64	ABS hydraulic pump
B510	Connection 1 (rear right speed sensor), in interior wiring harness
B511	Connection 2 (rear right speed sensor), in interior wiring harness
B512	Connection 1 (rear left speed sensor), in interior wiring harness
B513	Connection 2 (rear left speed sensor), in interior wiring harness
J3	Connection 1, in ABS wiring harness
J5	Connection 2, in ABS wiring harness
J7	Connection 3, in ABS wiring harness
J8	Connection 4, in ABS wiring harness
*	Only left-hand drive models
*2	Only right-hand drive models

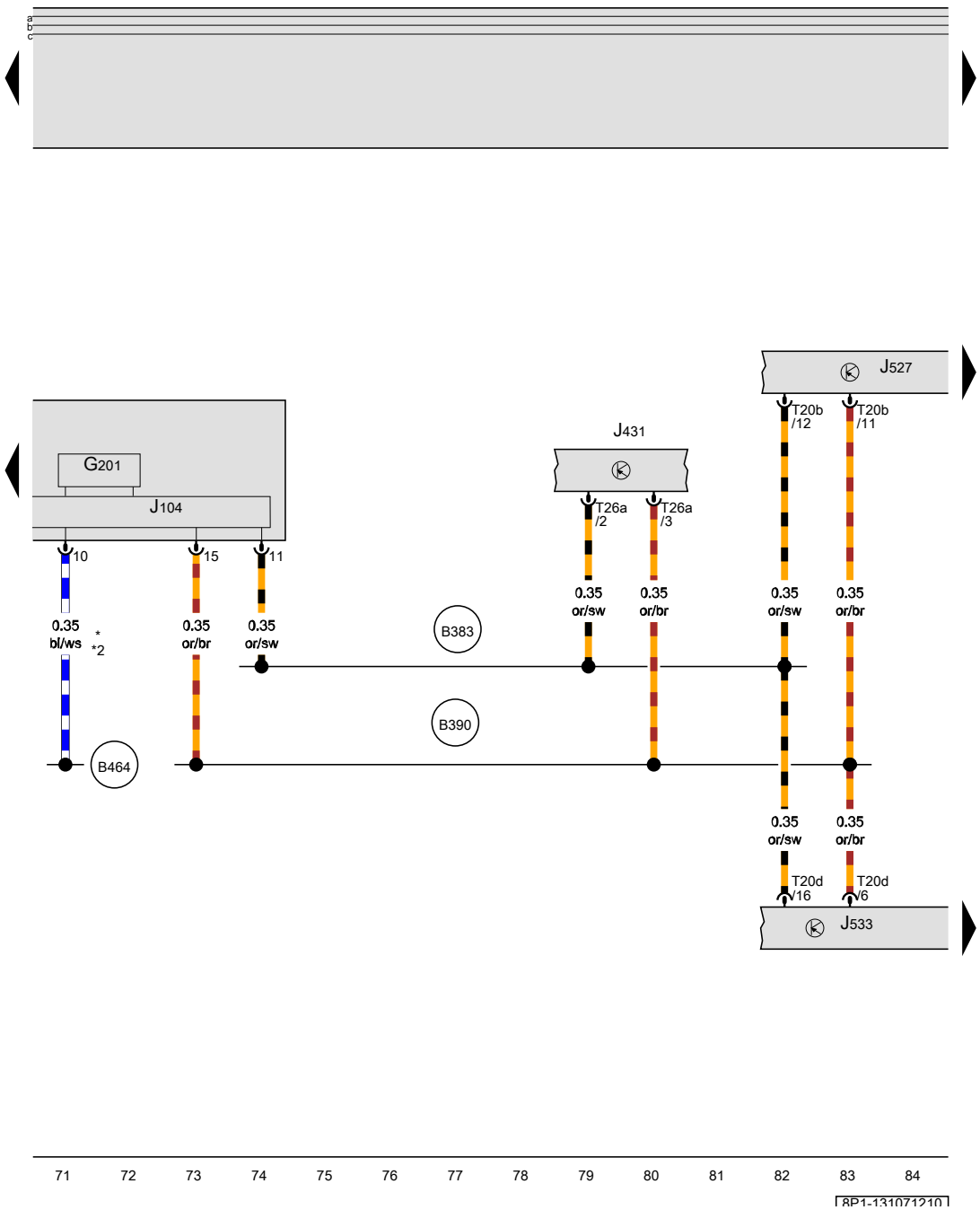


ESP sensor unit, ABS control unit, ABS hydraulic unit

G200	Lateral acceleration sender
G202	Yaw rate sender
G251	Longitudinal acceleration sender
G419	ESP sensor unit
J104	ABS control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N225	Vehicle stabilization program switch valve 1
N226	Vehicle stabilization program switch valve 2
N227	Vehicle stabilization program high-pressure valve 1
N228	Vehicle stabilization program high-pressure valve 2
*	Only models with all-wheel drive

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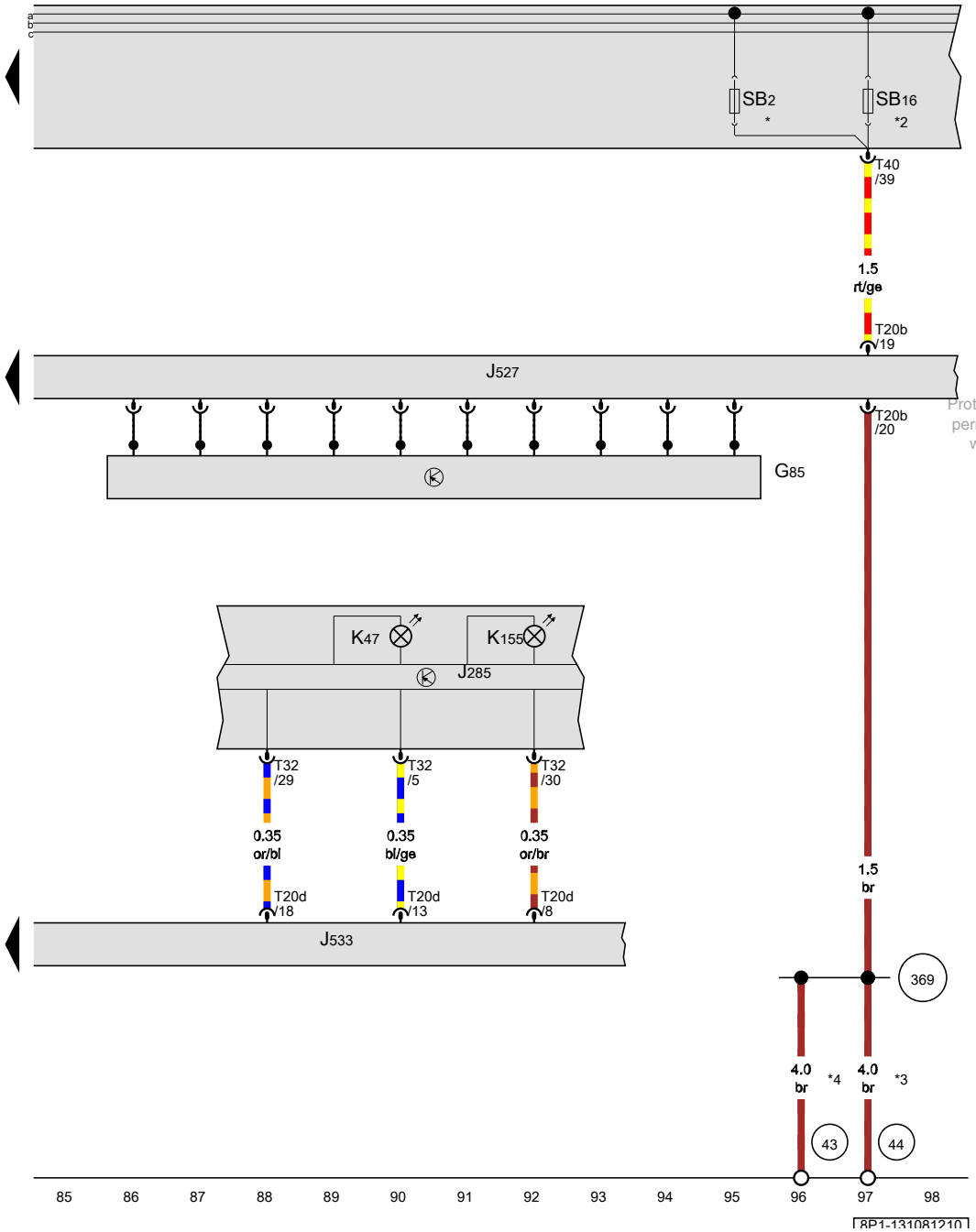


Brake pressure sender 1, ABS control unit, Headlight range control unit, Steering column electronics control unit, Data bus diagnostic interface

G201	Brake pressure sender 1
J104	ABS control unit
J431	Headlight range control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T20b	20-pin connector
T20d	20-pin connector
T26a	26-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	Only models with navigation system
*2	see applicable current flow diagram

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rs	=	pink



Steering angle sender, Control unit in dash panel insert, Steering column electronics control unit, Data bus diagnostic interface, ABS warning lamp, ESP and TCS warning lamp

G85	Steering angle sender
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K47	ABS warning lamp
K155	ESP and TCS warning lamp
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
*	E-box low
*2	E-box high
*3	Only left-hand drive models
*4	Only right-hand drive models

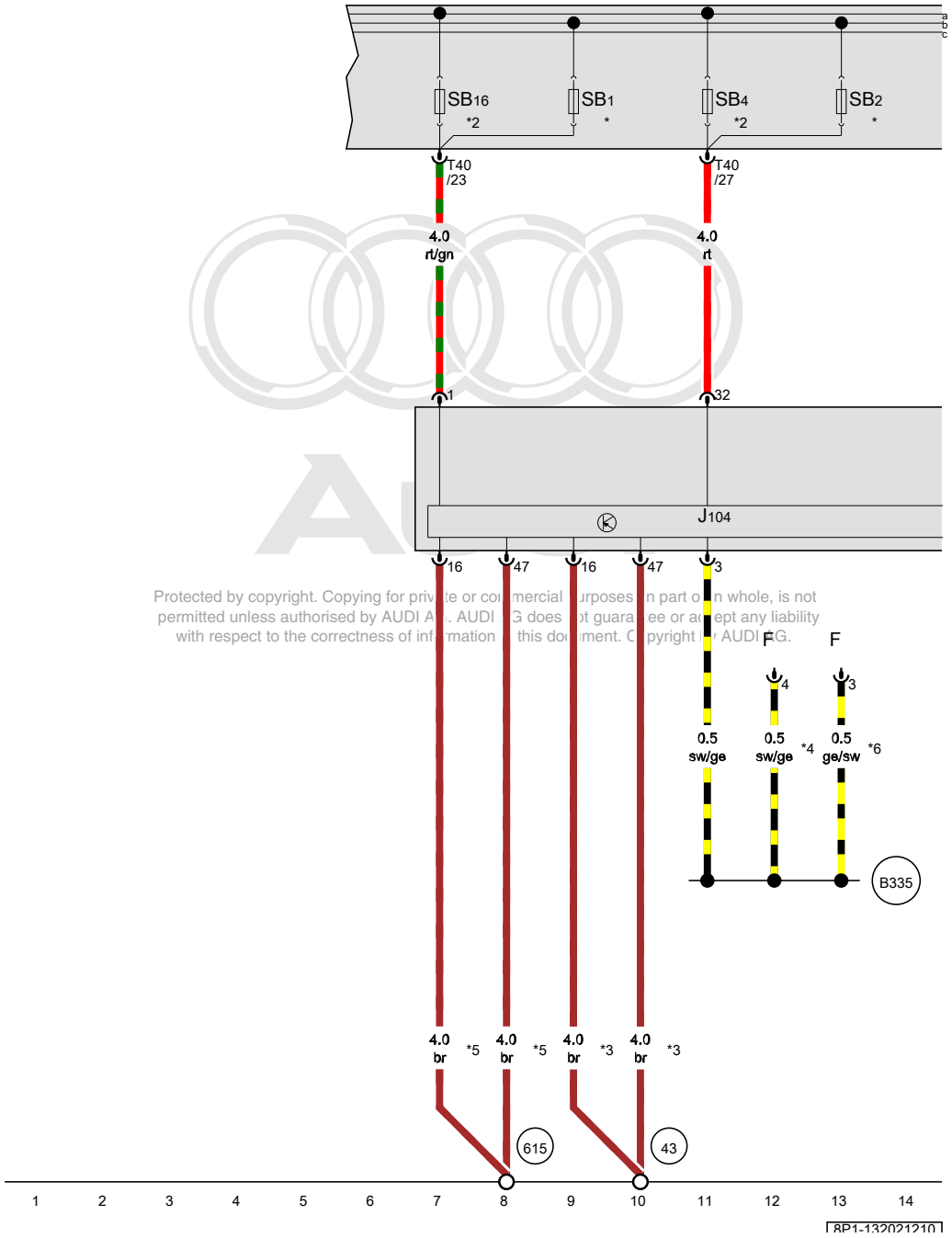
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Anti-lock brake system (ABS) with electronic stabilisation program (ESP), traction control system (TCS) and hydraulic brake servo (HBS)

From May 2005

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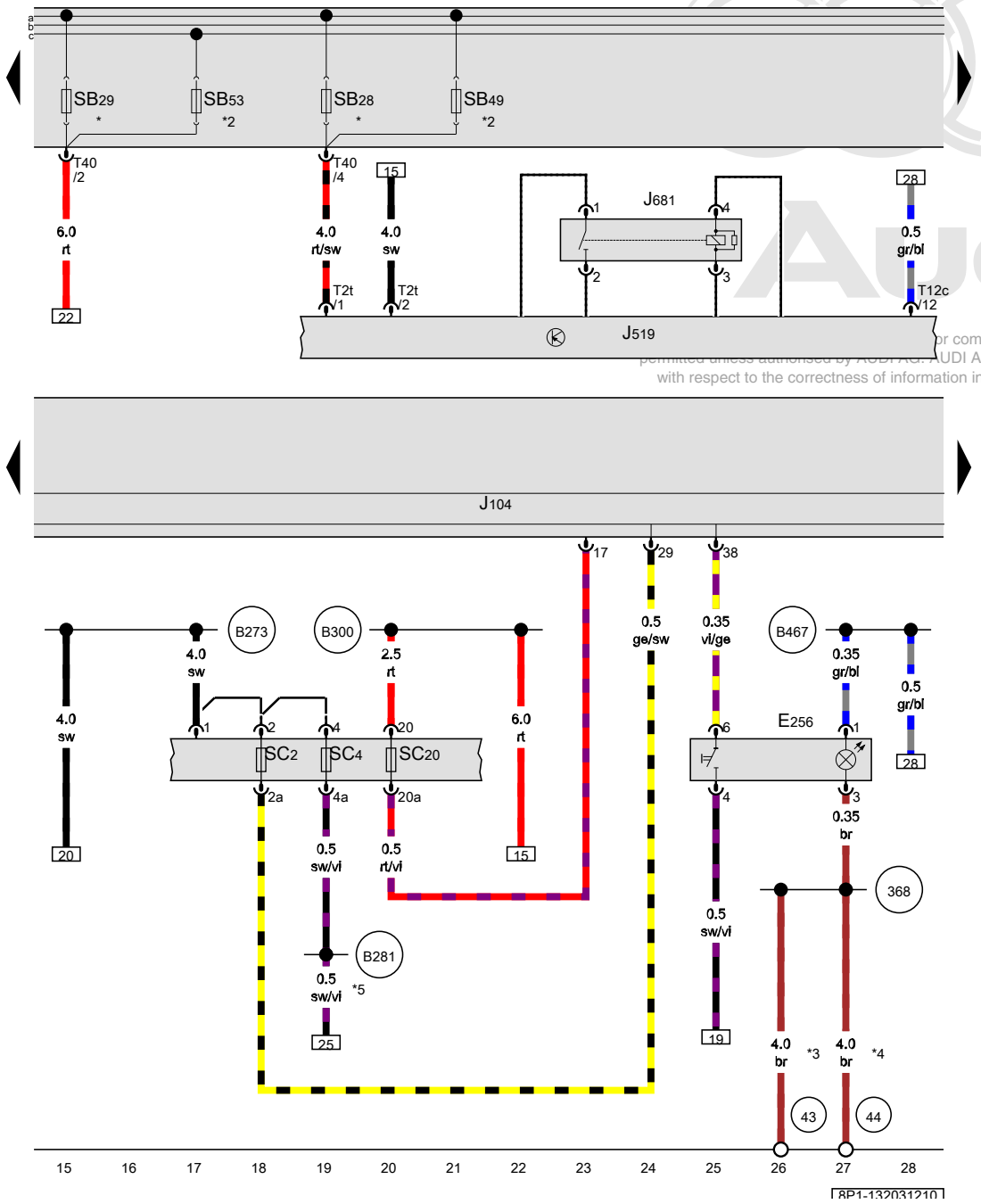


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ABS control unit

F	Brake light switch
J104	ABS control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB16	Fuse 16 on fuse holder B
T40	40-pin connector
43	Earth point, lower part of right A-pillar
615	Earth point, on left suspension strut
B335	Connection 1 (54), in main wiring harness
*	E-box high
*2	E-box low
*3	Only left-hand drive models
*4	Up to September 2005
*5	Only right-hand drive models
*6	From November 2005

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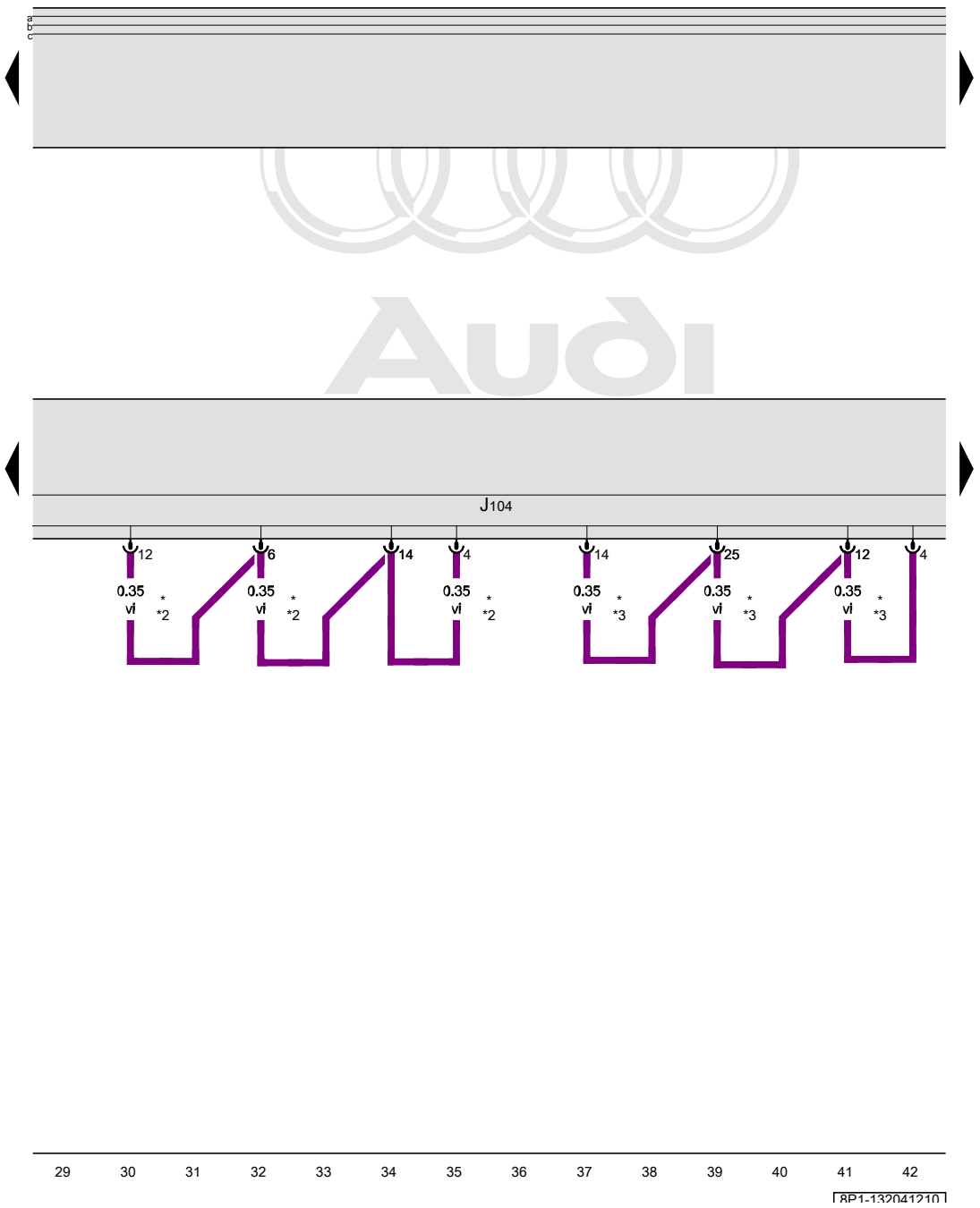


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TCS and ESP button, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

E256	TCS and ESP button
J104	ABS control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC20	Fuse 20 on fuse holder C
SB28	Fuse 28 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
T2t	2-pin connector
T12c	12-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B281	Positive connection 5 (15a) in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
B467	Connection 3, in main wiring harness
*	E-box low
*2	E-box high
*3	Only right-hand drive models
*4	Only left-hand drive models
*5	Wiring colour depends on equipment

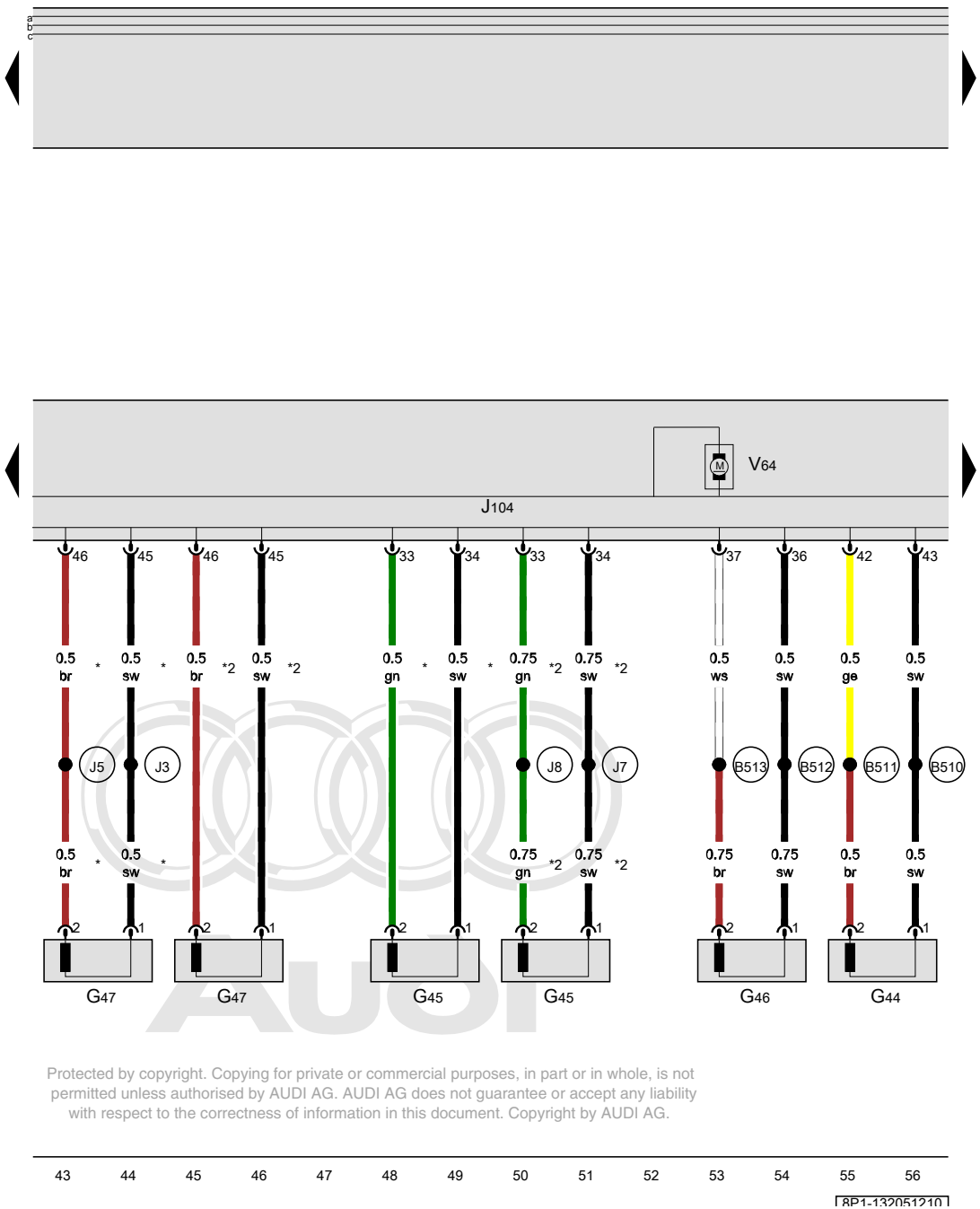
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ge	=	yellow
or	=	orange
rs	=	pink



ABS control unit

J104	ABS control unit
*	According to equipment
*2	gradual introduction
*3	Gradually discontinued

ws	=	white
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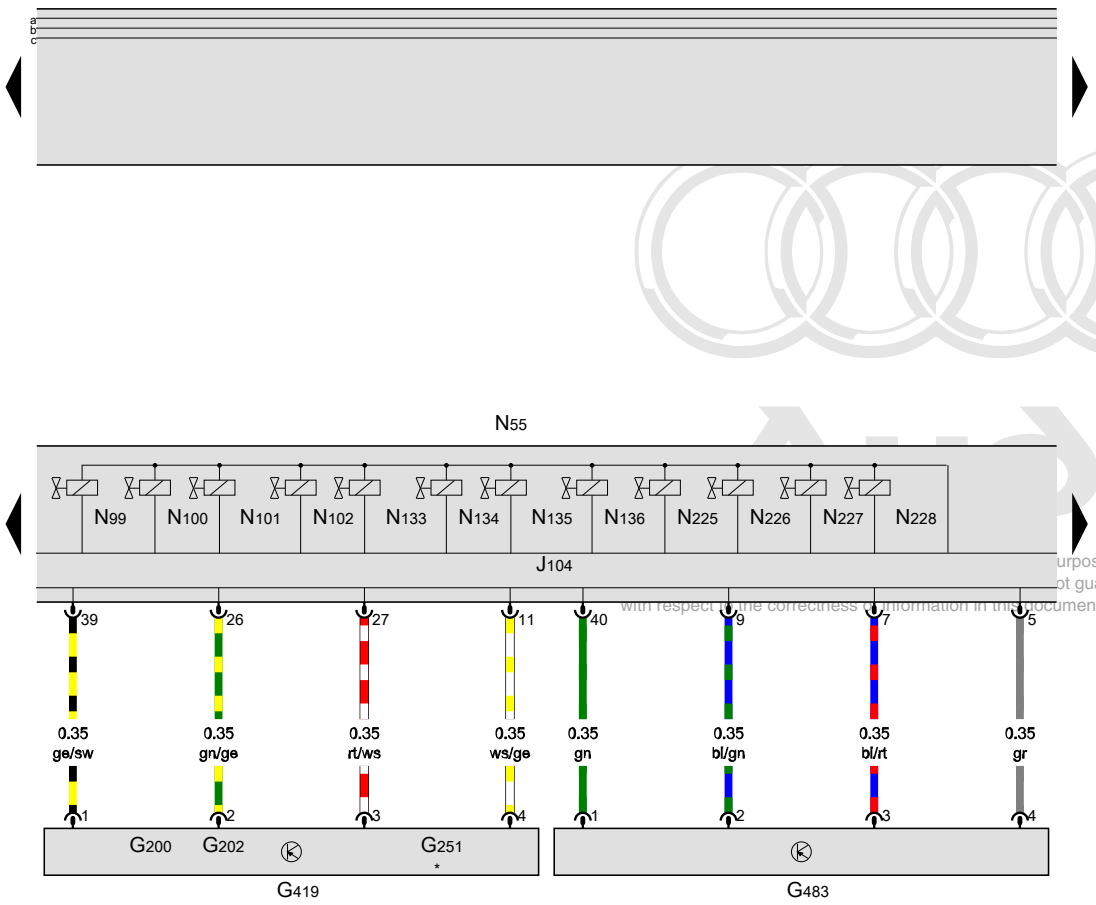


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Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
V64	ABS hydraulic pump
B510	Connection 1 (rear right speed sensor), in interior wiring harness
B511	Connection 2 (rear right speed sensor), in interior wiring harness
B512	Connection 1 (rear left speed sensor), in interior wiring harness
B513	Connection 2 (rear left speed sensor), in interior wiring harness
J3	Connection 1, in ABS wiring harness
J5	Connection 2, in ABS wiring harness
J7	Connection 3, in ABS wiring harness
J8	Connection 4, in ABS wiring harness
*	Only left-hand drive models
*2	Only right-hand drive models

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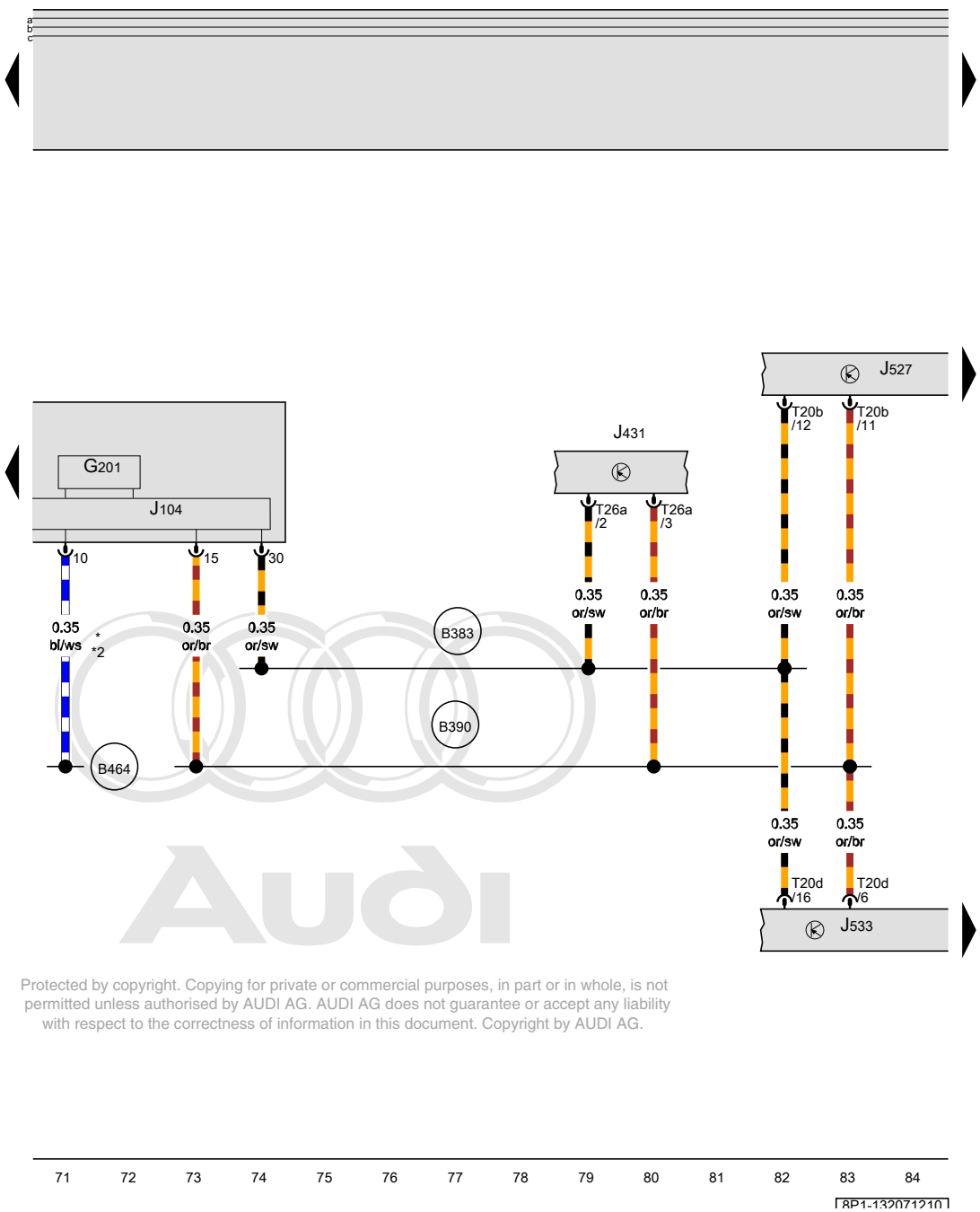


ESP sensor unit, Brake servo vacuum sender, ABS control unit, ABS hydraulic unit

G200	Lateral acceleration sender
G202	Yaw rate sender
G251	Longitudinal acceleration sender
G419	ESP sensor unit
G483	Brake servo vacuum sender
J104	ABS control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N225	Vehicle stabilization program switch valve 1
N226	Vehicle stabilization program switch valve 2
N227	Vehicle stabilization program high-pressure valve 1
N228	Vehicle stabilization program high-pressure valve 2
*	Only models with all-wheel drive

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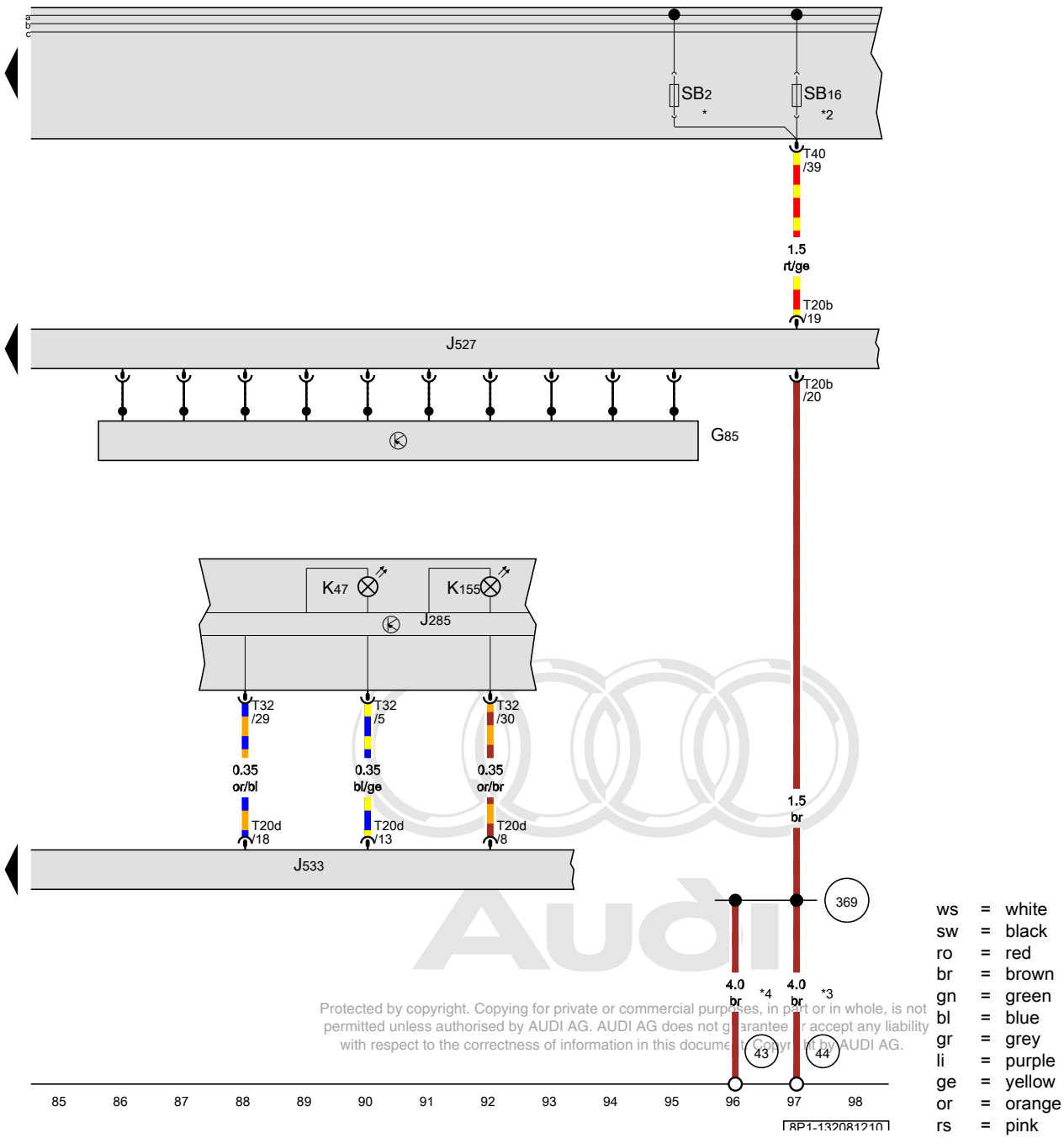


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Brake pressure sender 1, ABS control unit, Headlight range control unit, Steering column electronics control unit, Data bus diagnostic interface

G201	Brake pressure sender 1
J104	ABS control unit
J431	Headlight range control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T20b	20-pin connector
T20d	20-pin connector
T26a	26-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	Only models with navigation system
*2	see applicable current flow diagram

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Steering angle sender, Control unit in dash panel insert, Steering column electronics control unit, Data bus diagnostic interface, ABS warning lamp, ESP and TCS warning lamp

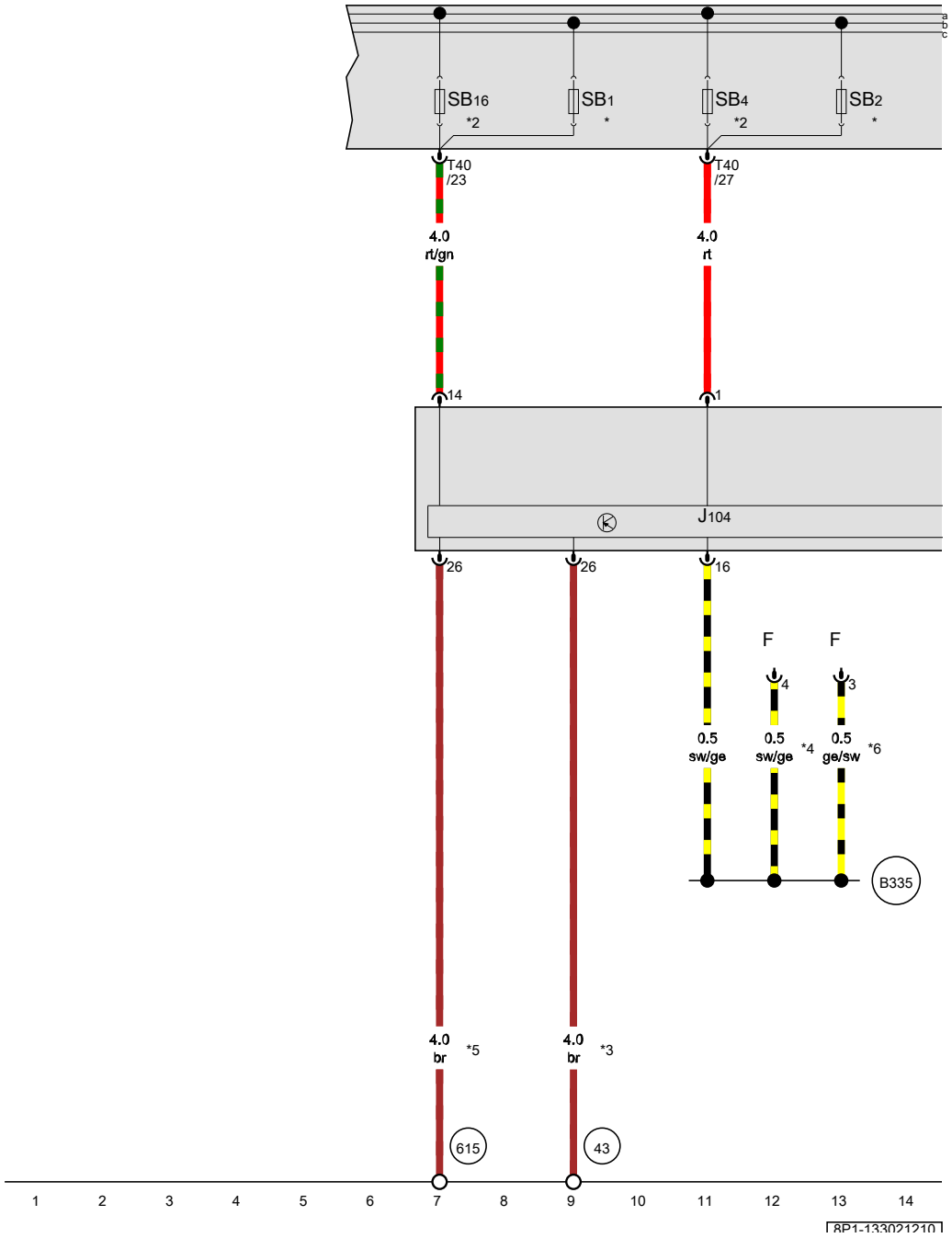
G85	Steering angle sender
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K47	ABS warning lamp
K155	ESP and TCS warning lamp
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
*	E-box low
*2	E-box high
*3	Only left-hand drive models
*4	Only right-hand drive models

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Anti-lock brake system (ABS) with traction control system (TCS)

From May 2005

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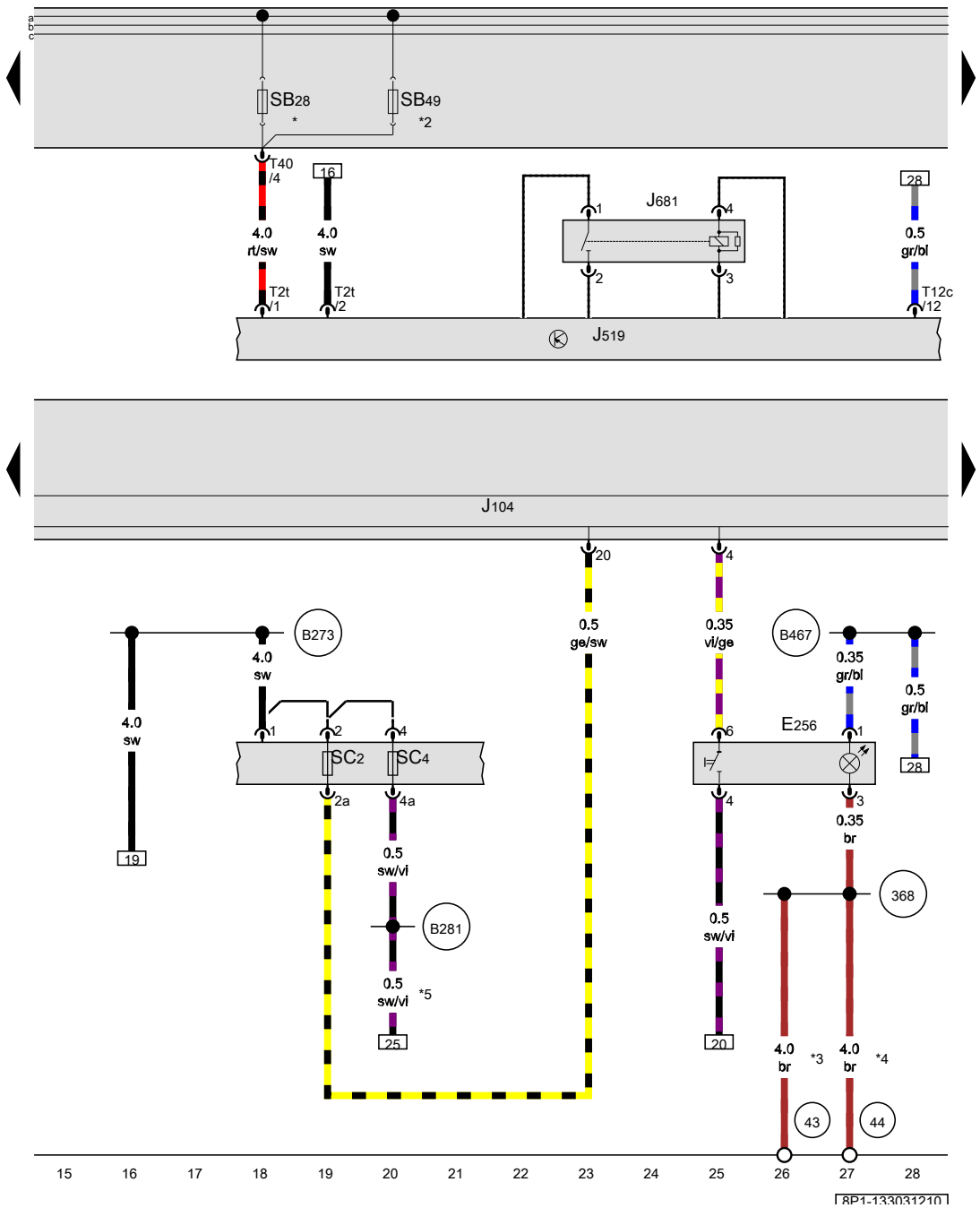


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rs = pink

ABS control unit

F	Brake light switch
J104	ABS control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB16	Fuse 16 on fuse holder B
T40	40-pin connector
43	Earth point, lower part of right A-pillar
615	Earth point, on left suspension strut
B335	Connection 1 (54), in main wiring harness
*	E-box high
*2	E-box low
*3	Only left-hand drive models
*4	Up to September 2005
*5	Only right-hand drive models
*6	From November 2005

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TCS and ESP button, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

E256	TCS and ESP button
J104	ABS control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SC2	Fuse 2 on fuse holder C
SC4	Fuse 4 on fuse holder C
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2t	2-pin connector
T12c	12-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B281	Positive connection 5 (15a) in main wiring harness
B467	Connection 3, in main wiring harness
*	E-box low
*2	E-box high
*3	Only right-hand drive models
*4	Only left-hand drive models
*5	Wiring colour depends on equipment

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gn	=	green
bl	=	blue
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or	=	orange
rs	=	pink

Front right speed sensor, Front left speed sensor, ABS control unit

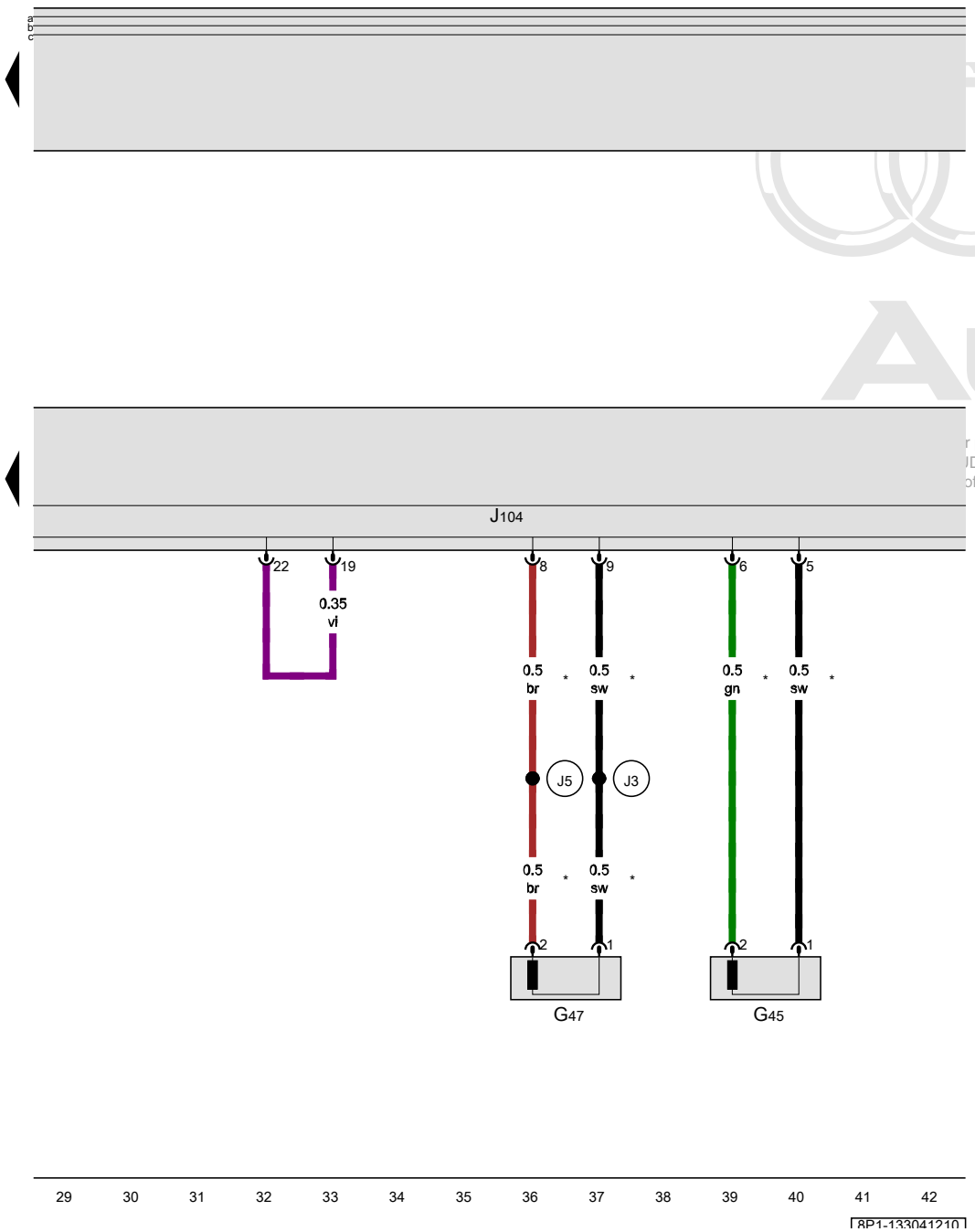
G45 Front right speed sensor
G47 Front left speed sensor
J104 ABS control unit

J3 Connection 1, in ABS wiring harness

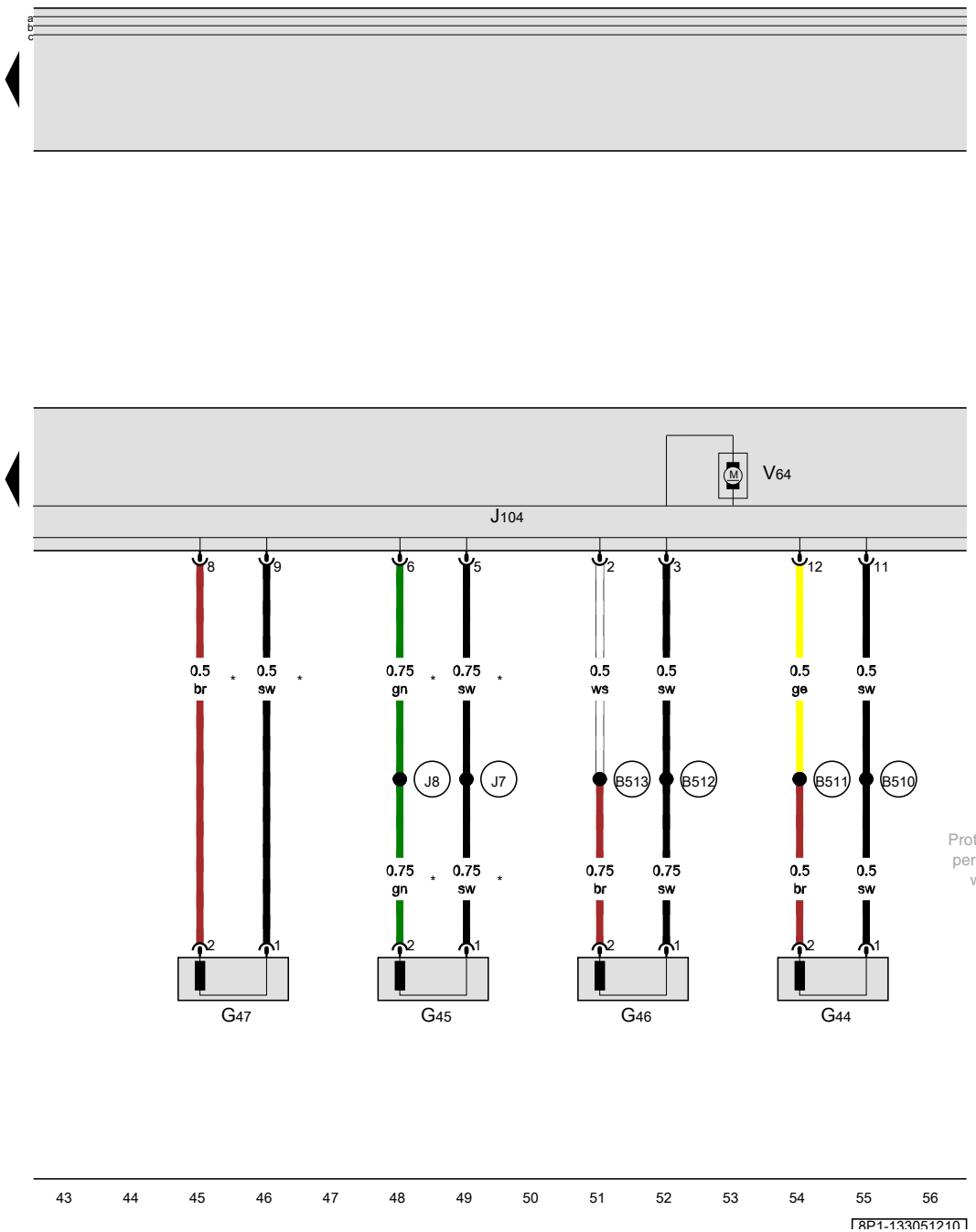
J5 Connection 2, in ABS wiring harness

* Only left-hand drive models

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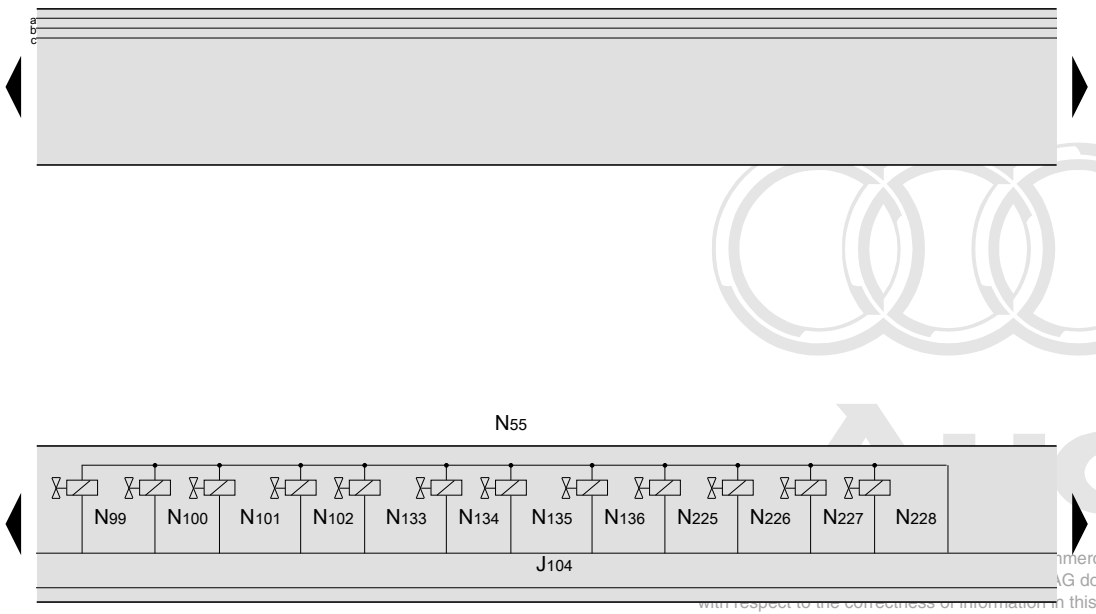


Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
V64	ABS hydraulic pump
B510	Connection 1 (rear right speed sensor), in interior wiring harness
B511	Connection 2 (rear right speed sensor), in interior wiring harness
B512	Connection 1 (rear left speed sensor), in interior wiring harness
B513	Connection 2 (rear left speed sensor), in interior wiring harness
J7	Connection 3, in ABS wiring harness
J8	Connection 4, in ABS wiring harness
*	Only right-hand drive models

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ABS control unit, ABS hydraulic unit

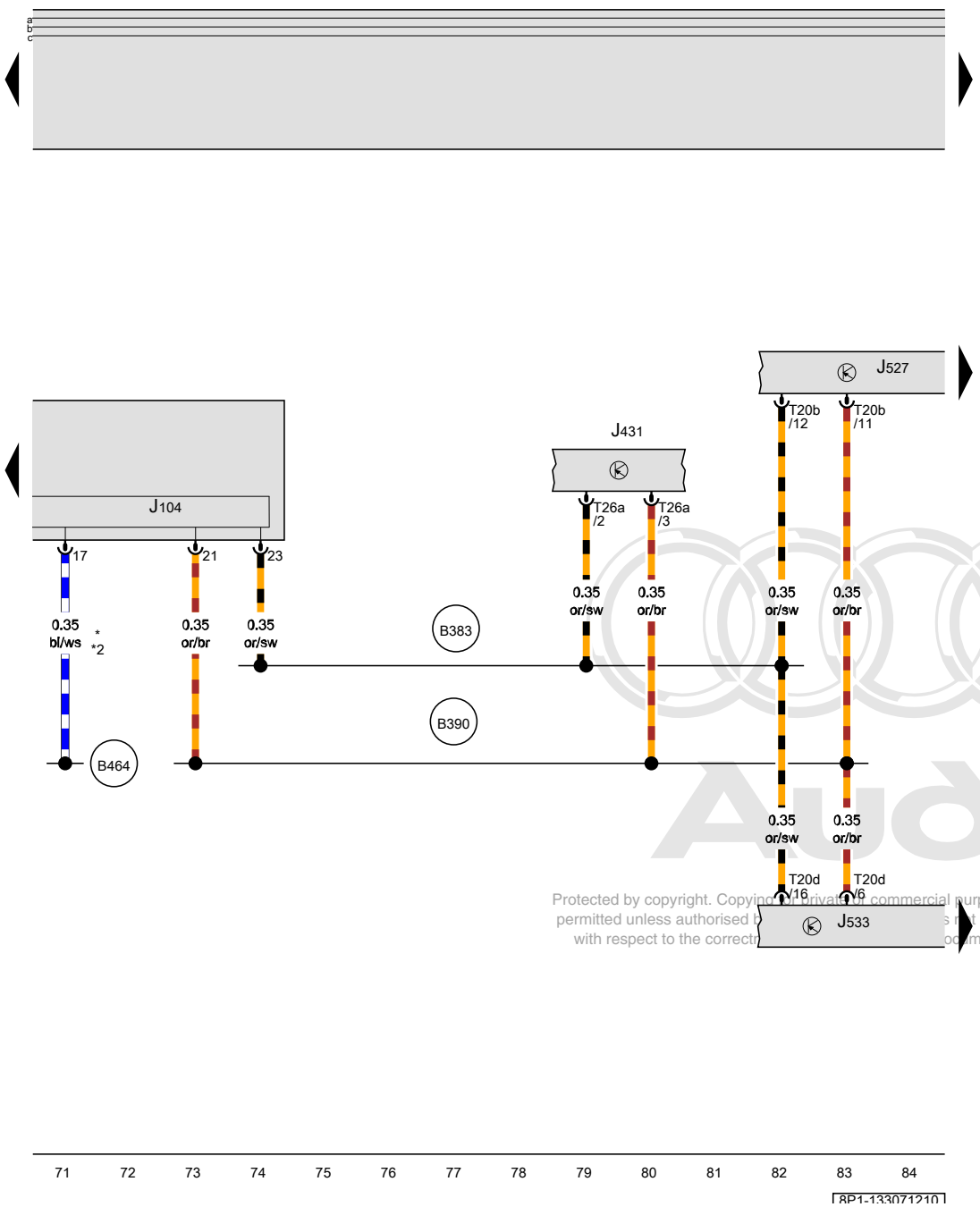
J104	ABS control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N225	Vehicle stabilization program switch valve 1
N226	Vehicle stabilization program switch valve 2
N227	Vehicle stabilization program high-pressure valve 1
N228	Vehicle stabilization program high-pressure valve 2

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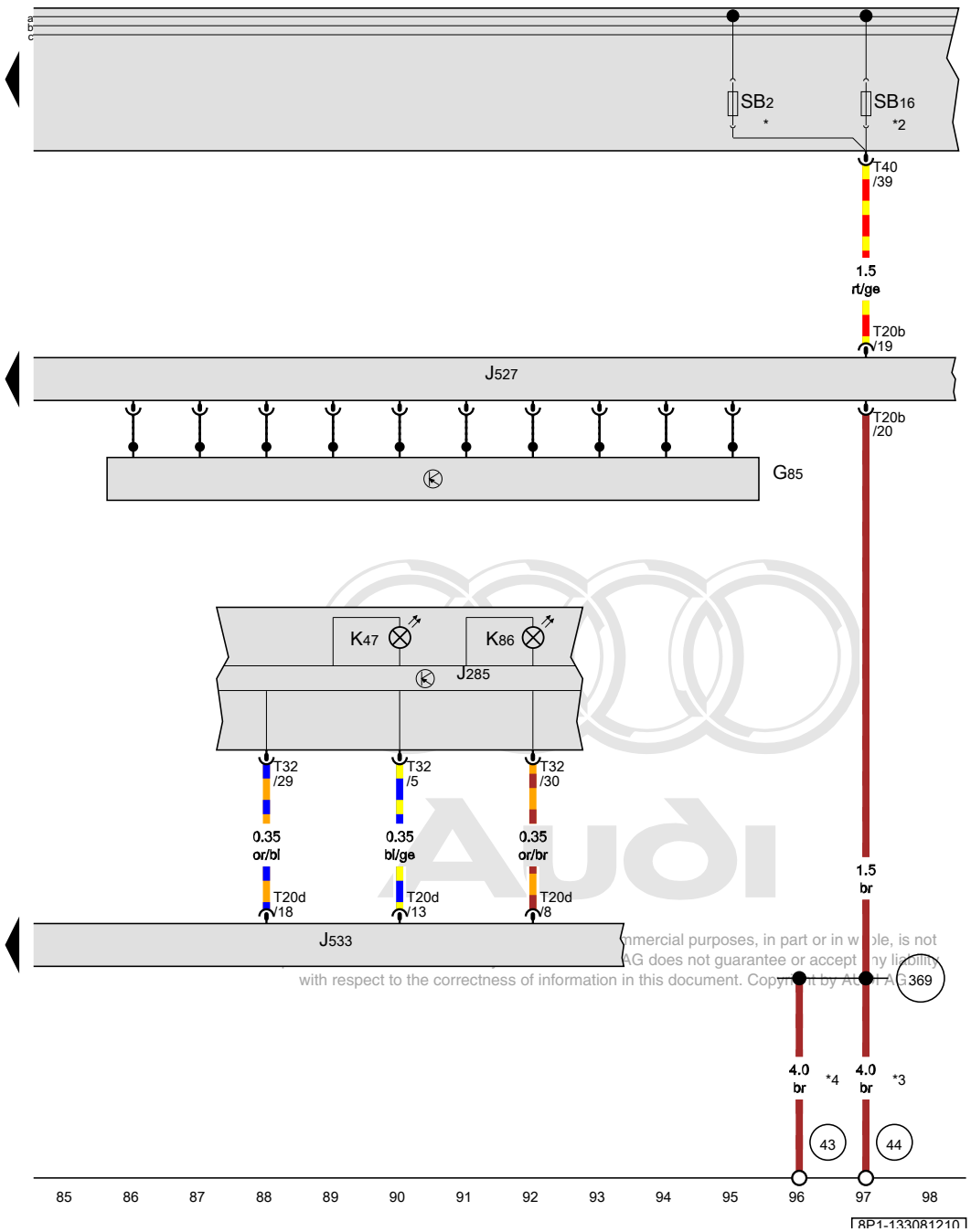


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ABS control unit, Headlight range control unit, Steering column electronics control unit, Data bus diagnostic interface

J104	ABS control unit
J431	Headlight range control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T20b	20-pin connector
T20d	20-pin connector
T26a	26-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B464	Connection (speed signal), in main wiring harness
*	Only models with navigation system
*2	see applicable current flow diagram

ws	=	white
sw	=	black
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ge	=	yellow
or	=	orange
rs	=	pink



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Steering angle sender, Control unit in dash panel insert, Steering column electronics control unit, Data bus diagnostic interface, ABS warning lamp, Traction control system warning lamp

G85	Steering angle sender
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K47	ABS warning lamp
K86	Traction control system warning lamp
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector
43	Earth point, lower part of right A-pillar
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
*	E-box low
*2	E-box high
*3	Only left-hand drive models
*4	Only right-hand drive models

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Garage door operation - (Homelink)

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

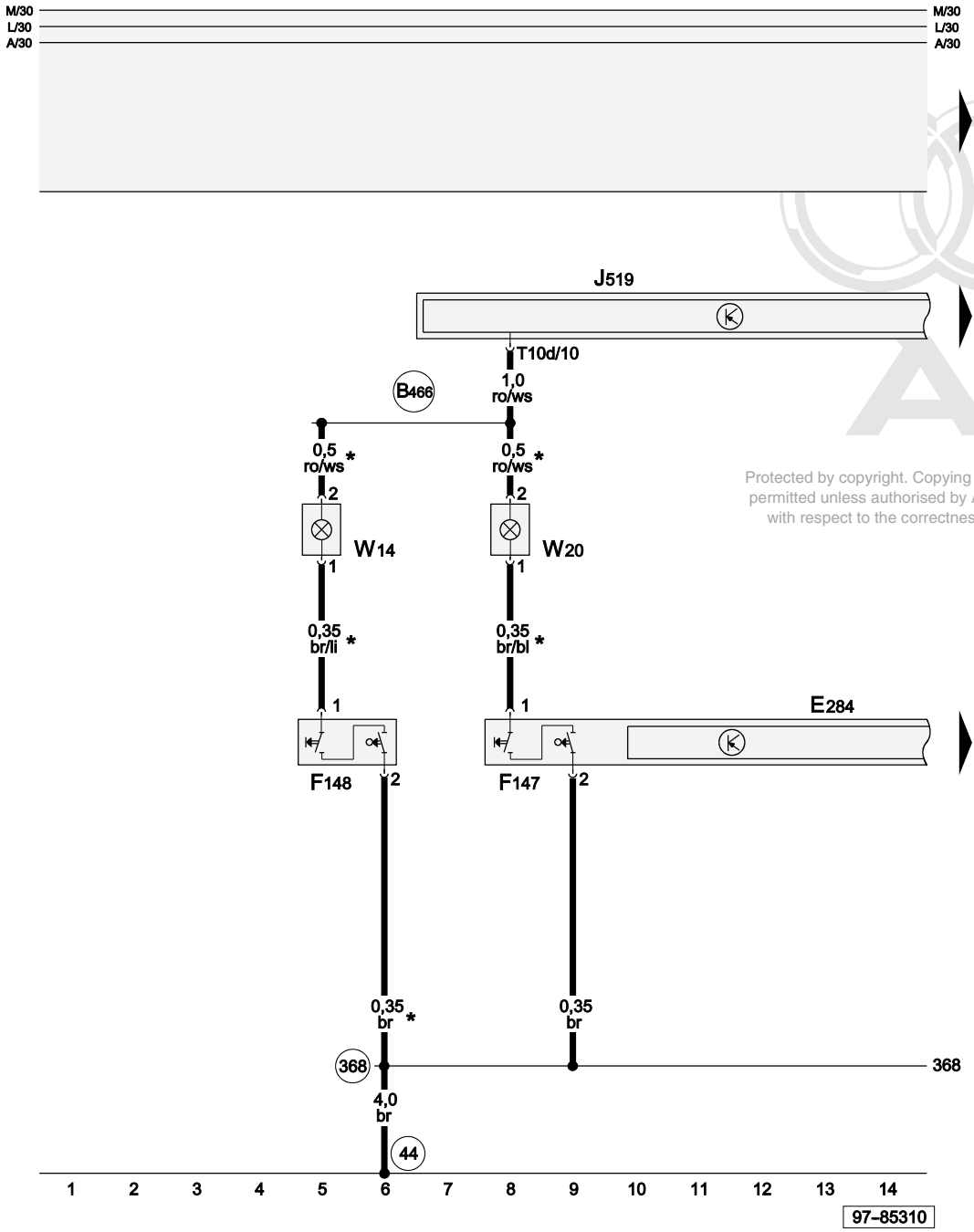
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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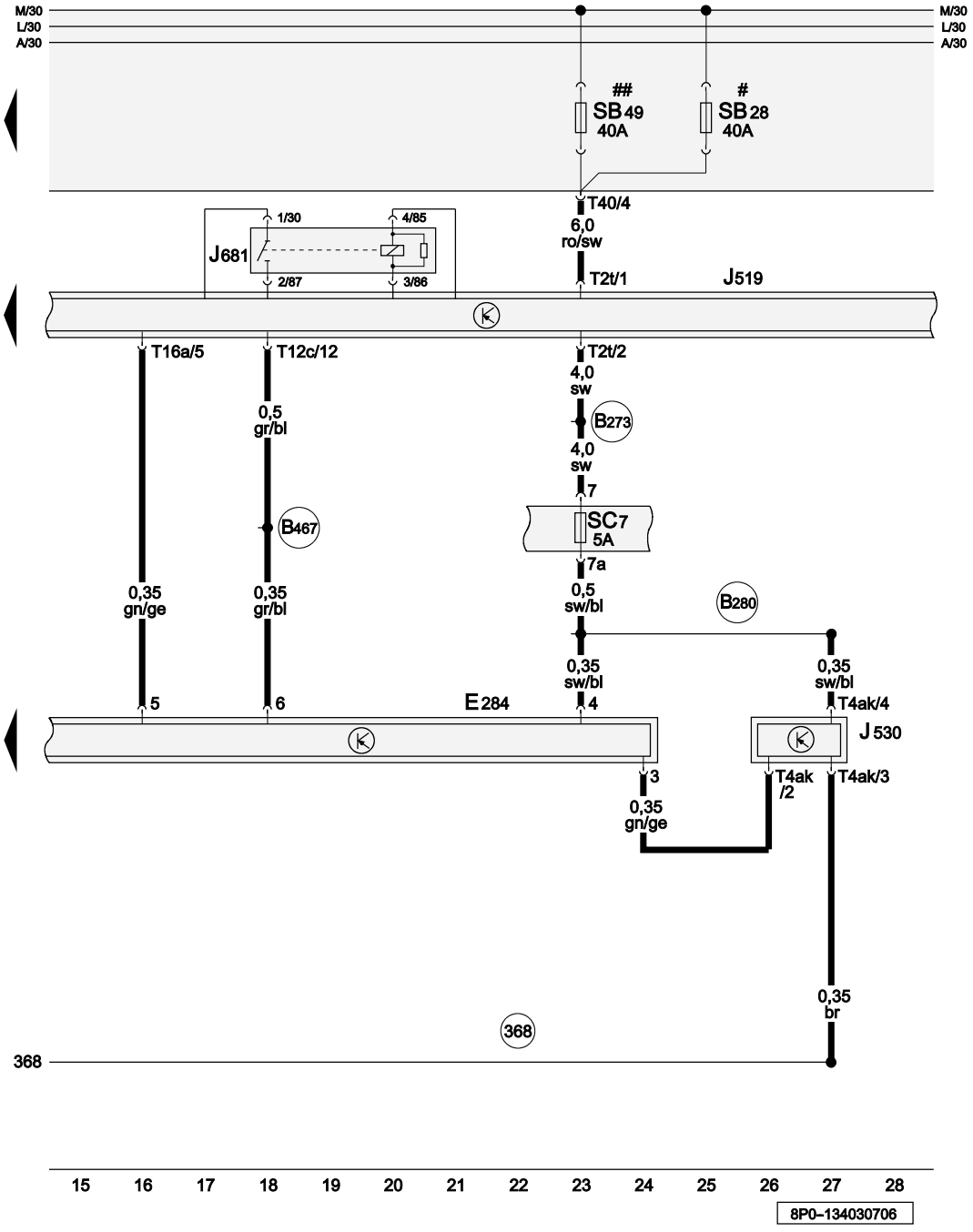


Garage door operating unit

E284	Garage door operating unit
F147	Driver vanity mirror contact switch
F148	Front passenger side vanity mirror contact switch
J519	Onboard supply control unit
T10d	10-pin connector, black (connector K)
W14	Front passenger side illuminated vanity mirror
W20	Driver side illuminated vanity mirror
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B466	Connection 2, in main wiring harness
*	models with illuminated vanity mirror only

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Garage door operating unit, garage door operation control unit

E284	Garage door operating unit
J519	Onboard supply control unit
J530	Garage door operation control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
T2t	2-pin connector, black (connector L)
T4ak	4-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B280	Positive connection 4 (15a), in main wiring harness
B467	Connection 3, in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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Automatic gearbox (09G)

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

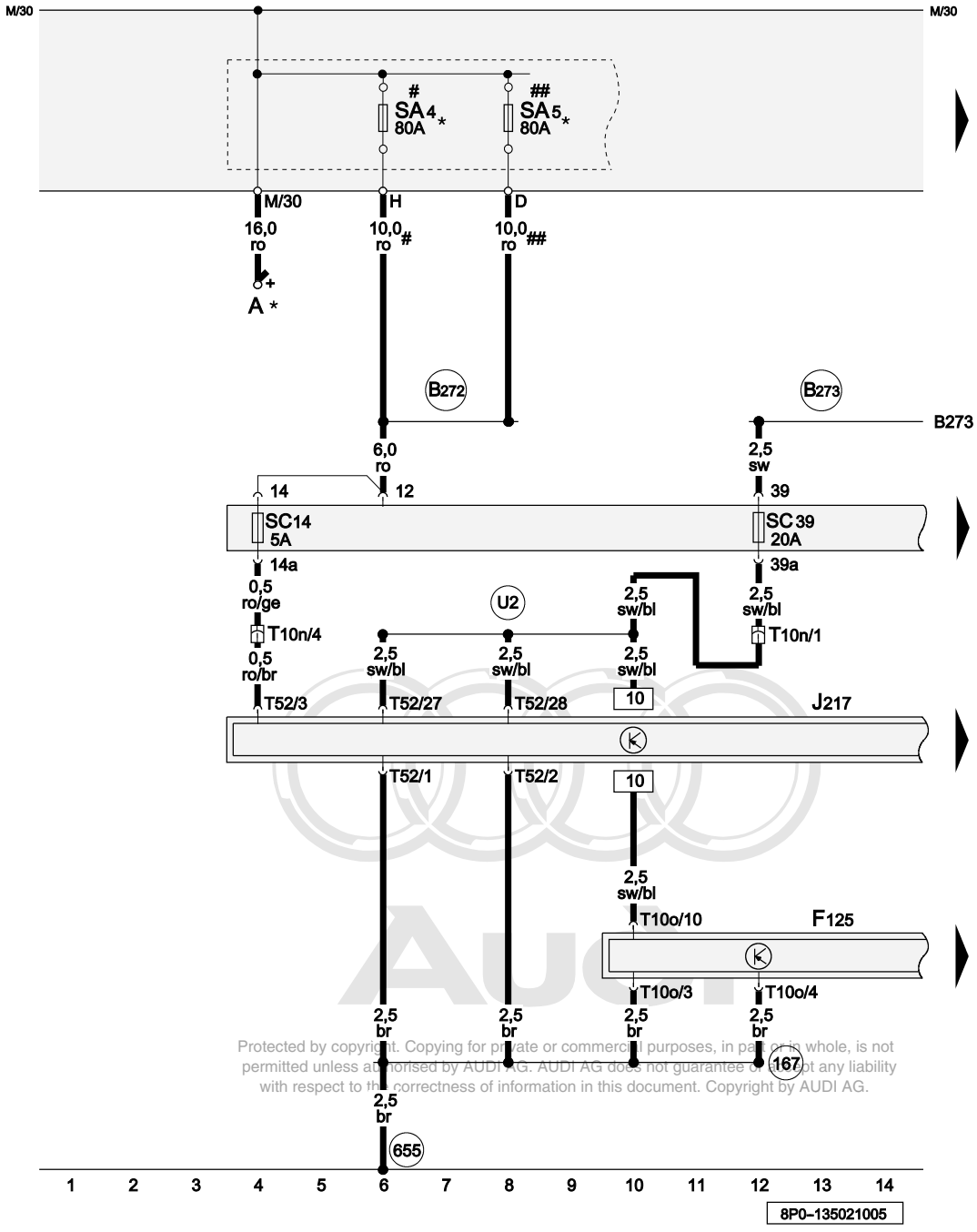
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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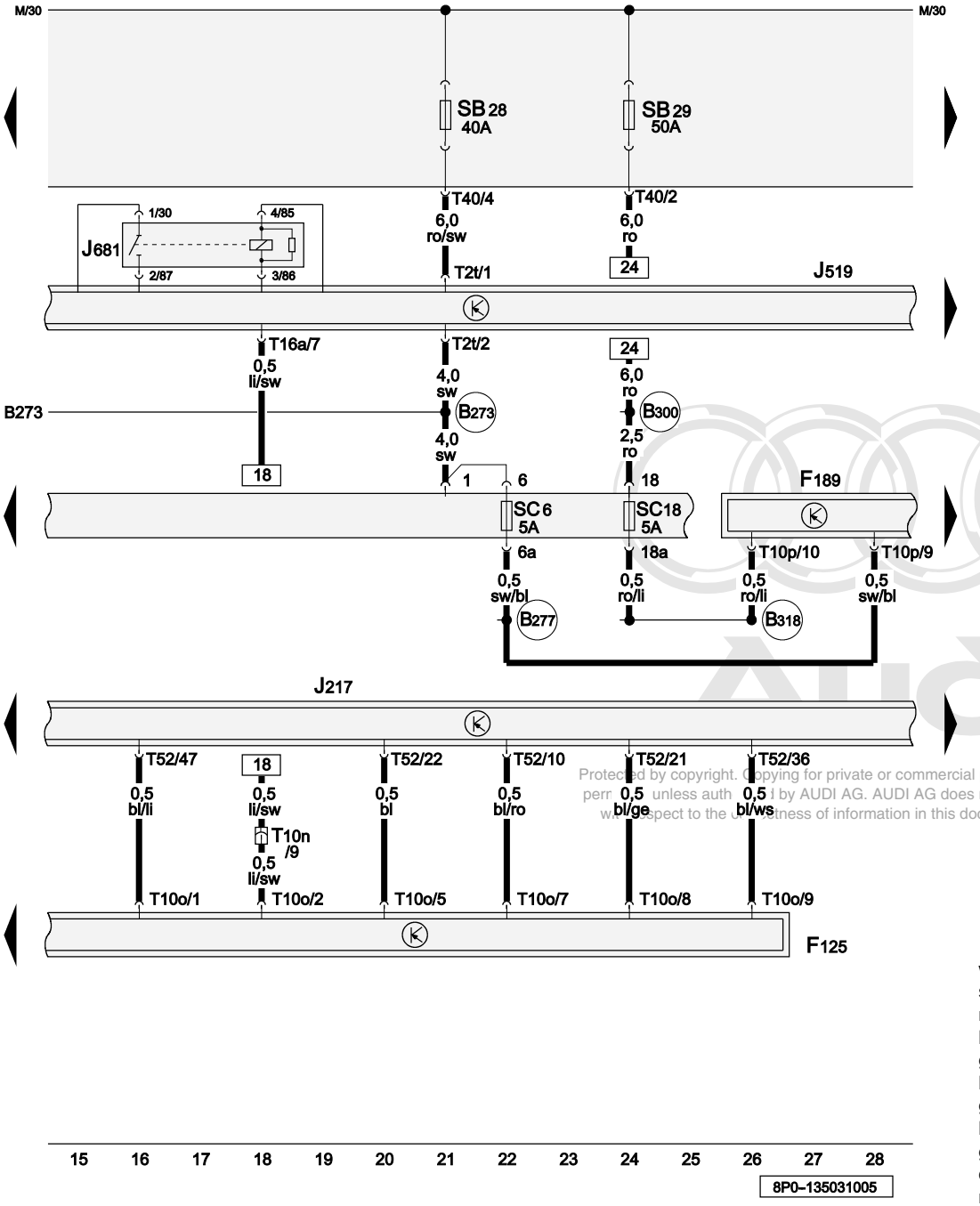


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Fuse on fuse holder, automatic gearbox control unit

A	Battery
F125	Multifunction switch
J217	Automatic gearbox control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC14	Fuse 14 on fuse holder C
SC39	Fuse 39 on fuse holder C
T10n	10-pin connector, black, near longitudinal member, front left
T10o	10-pin connector, black (connector C)
T52	52-pin connector, black (connector A)
167	Earth connection 4, in engine compartment wiring harness
655	Earth point, on left headlight
B272	Positive connection (30), in main wiring harness
B273	Positive connection (15), in main wiring harness
U2	Connection 1 (15), in automatic gearbox wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
#	Is dropped from November 2005
##	applicable from November 2005

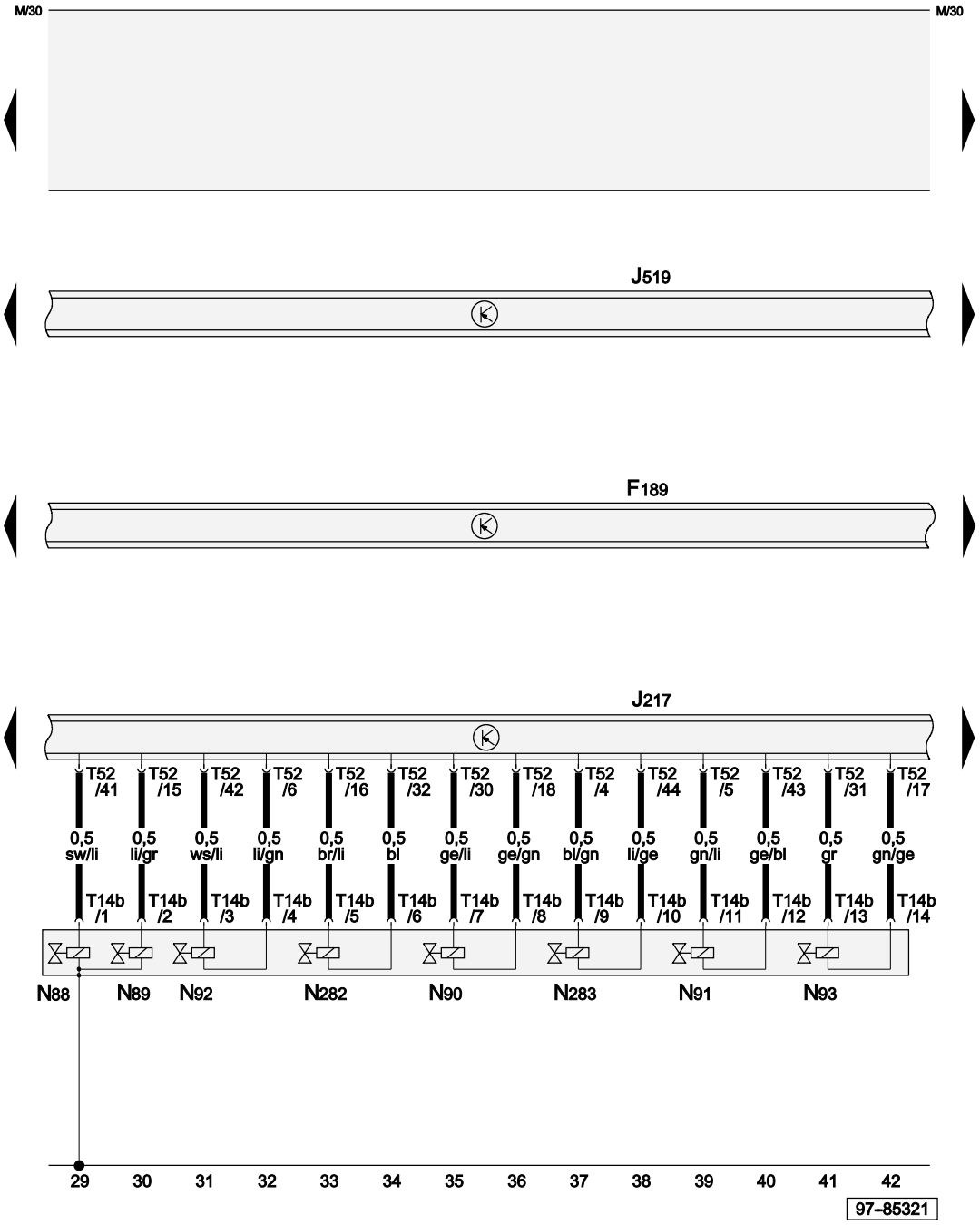


Fuses on fuse holder, multifunction switch, Tiptronic switch

F125	Multifunction switch
F189	Tiptronic switch
J217	Automatic gearbox control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB29	Fuse 29 on fuse holder B
SC6	Fuse 6 on fuse holder C
SC18	Fuse 18 on fuse holder C
T2t	2-pin connector, black (connector L)
T10n	10-pin connector, black, near longitudinal member, front left
T10o	10-pin connector, black (connector C)
T10p	10-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T52	52-pin connector, black (connector A)
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
B318	Positive connection 4 (30a), in main wiring harness

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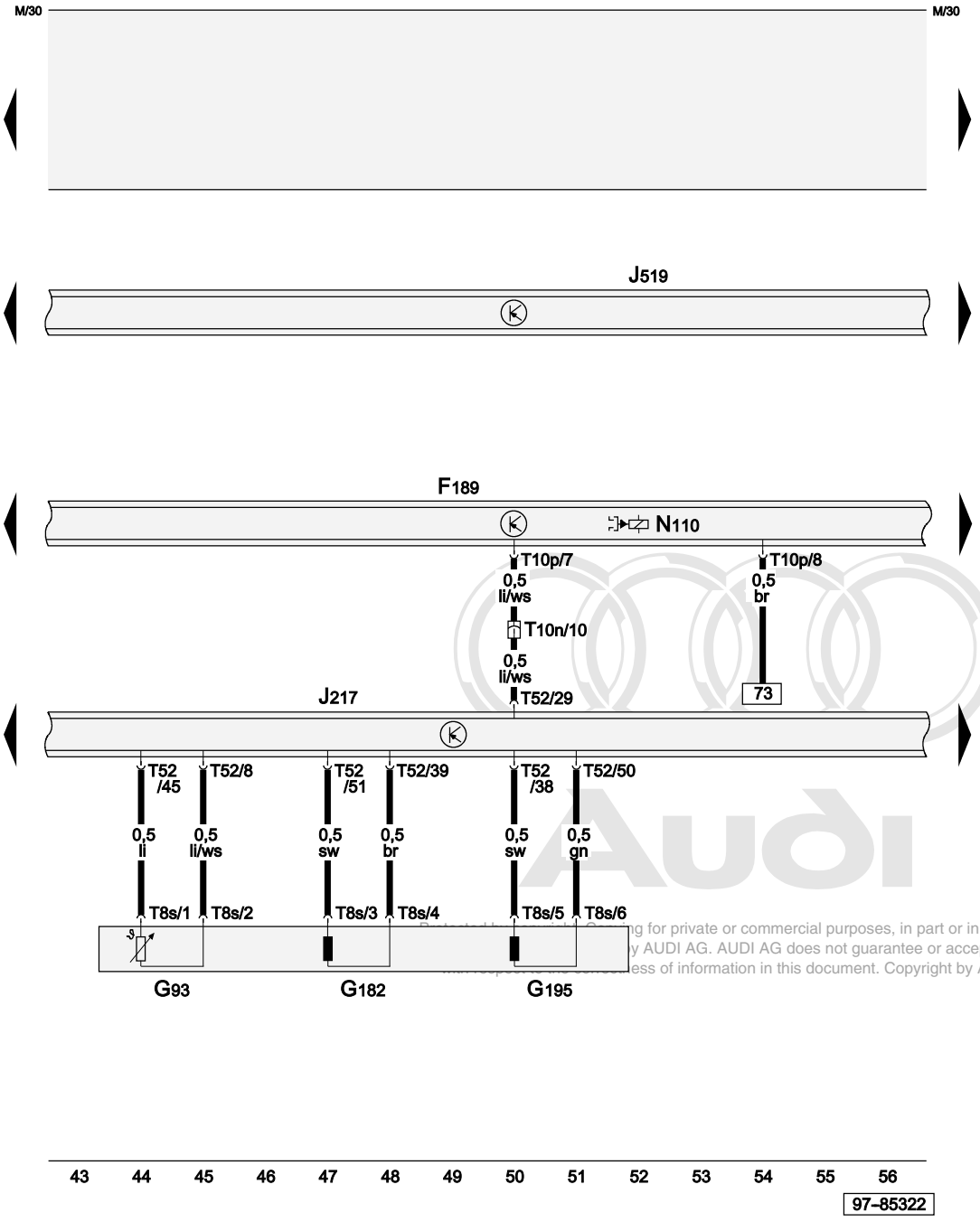


Solenoid valves

F189	Tiptronic switch
J217	Automatic gearbox control unit
J519	Onboard supply control unit
N88	Solenoid valve 1
N89	Solenoid valve 2
N90	Solenoid valve 3
N91	Solenoid valve 4
N92	Solenoid valve 5
N93	Solenoid valve 6
N282	Solenoid valve 9
N283	Solenoid valve 10
T14b	14-pin connector, black (connector A)
T52	52-pin connector, black (connector A)

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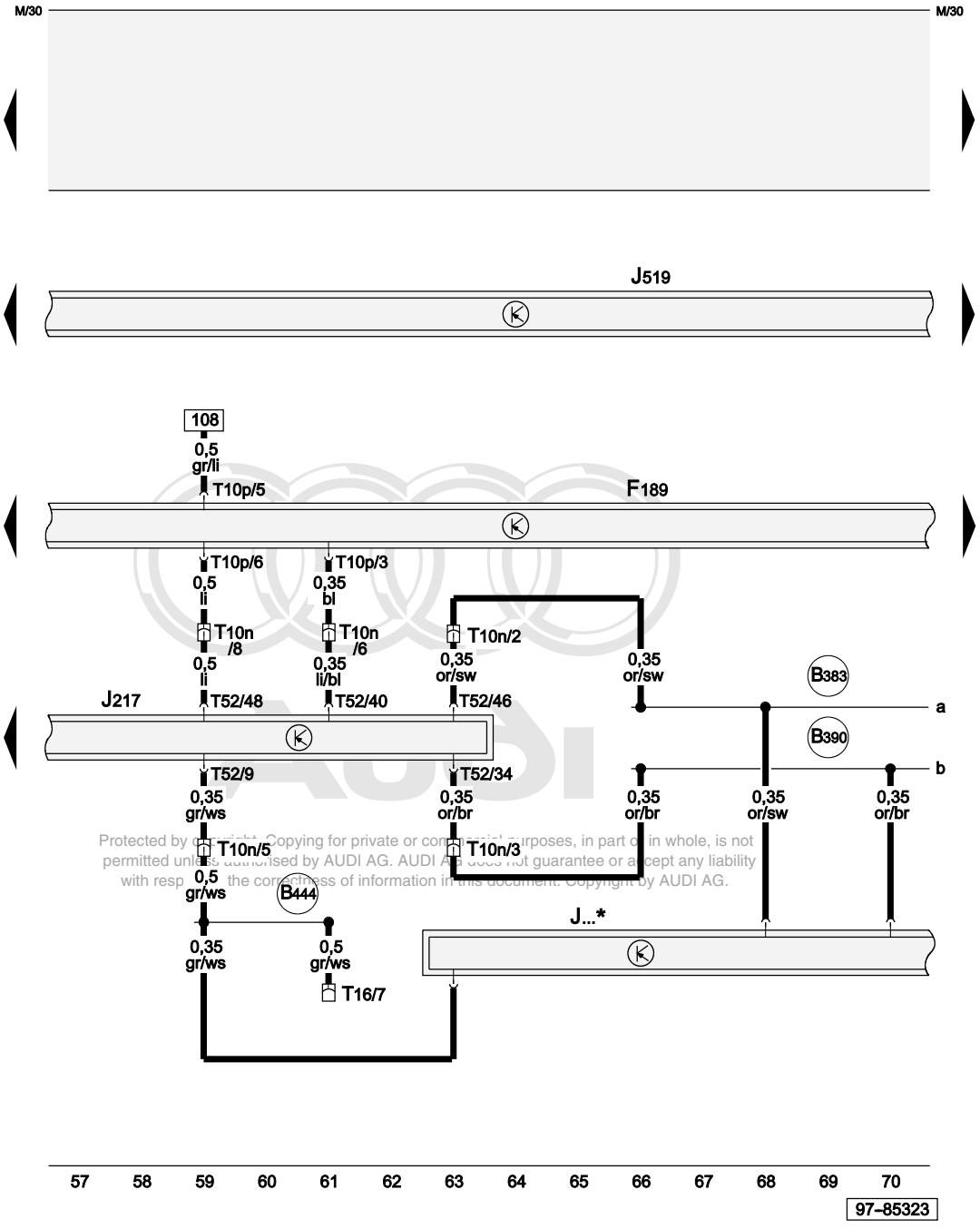


Gearbox input speed sender, gearbox output speed sender, gearbox oil temperature sender, selector lever lock solenoid

F189	Tiptronic switch
G93	Gearbox oil temperature sender
G182	Gearbox input speed sender
G195	Gearbox output speed sender
J217	Automatic gearbox control unit
J519	Onboard supply control unit
N110	Selector lever lock solenoid
T8s	8-pin connector, black (connector B)
T10n	10-pin connector, black, near longitudinal member, front left
T10p	10-pin connector, black (connector A)
T52	52-pin connector, black (connector A)

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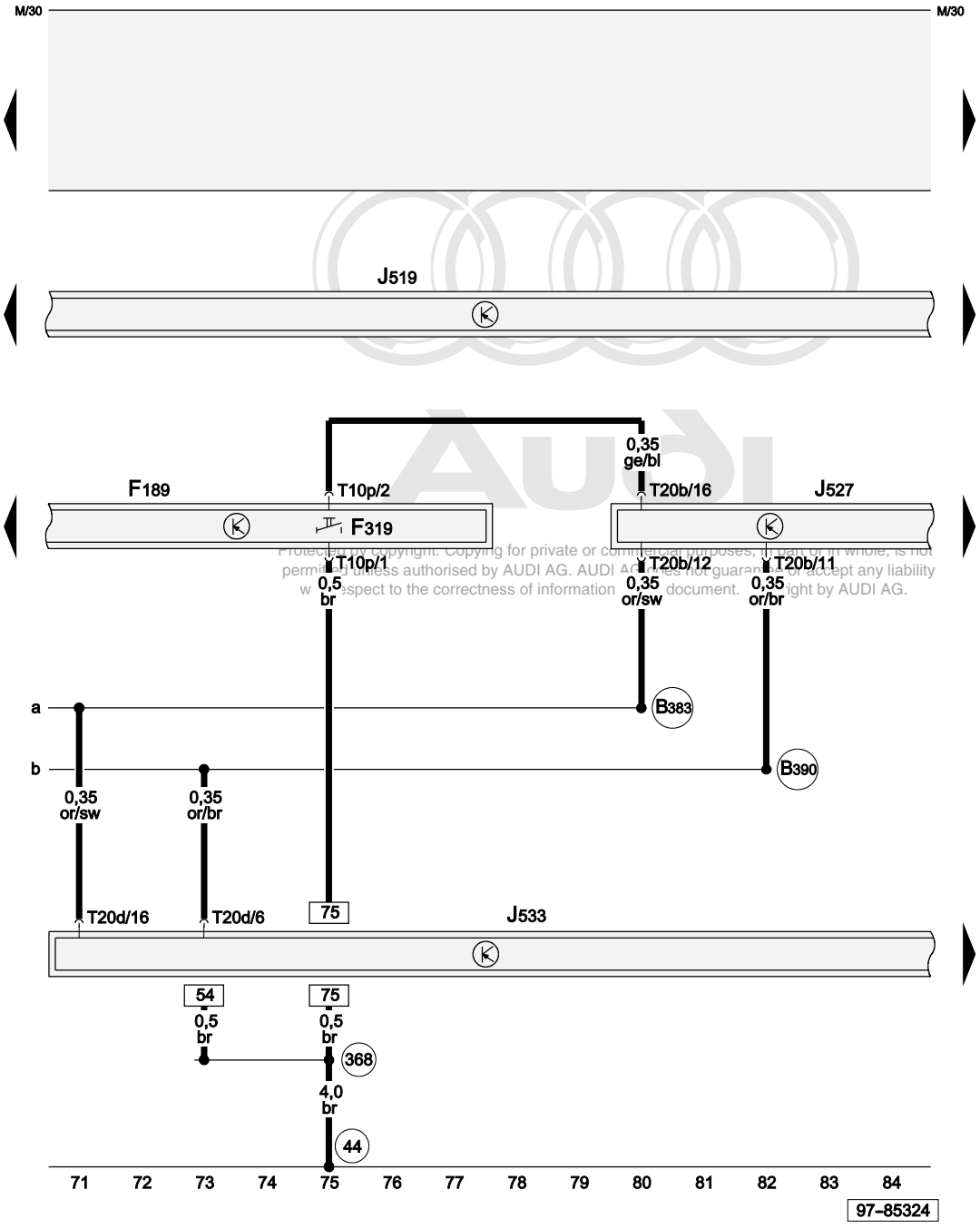


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Drive train CAN bus, diagnosis

F189	Tiptronic switch
J...	Engine control units
J217	Automatic gearbox control unit
J519	Onboard supply control unit
T10n	10-pin connector, black, near longitudinal member, front left
T10p	10-pin connector, black (connector A)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T52	52-pin connector, black (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	⇒ applicable engine Current Flow Diagram

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Selector lever locked in position P switch, bonnet contact switch 2

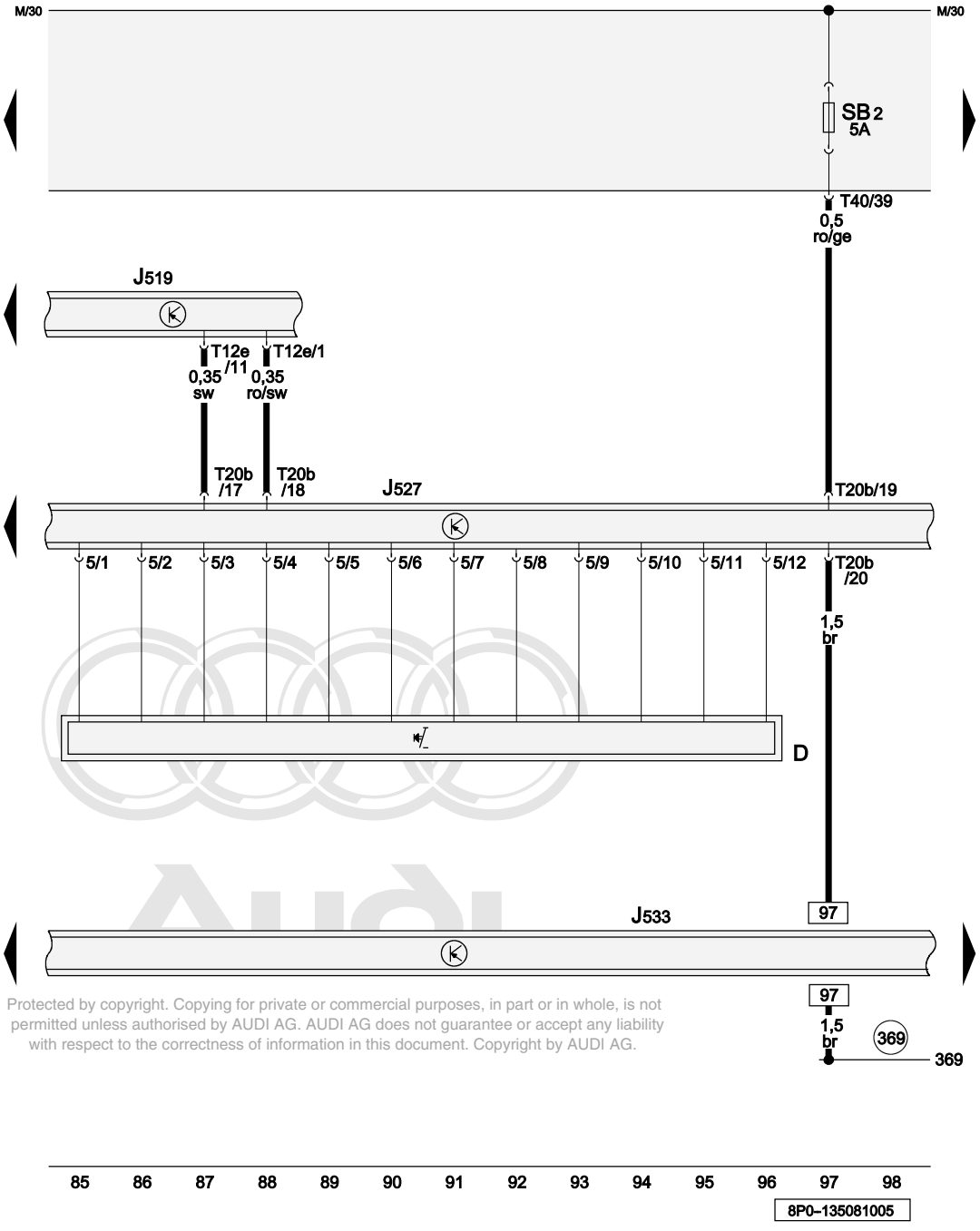
F189 Tiptronic switch
F319 Selector lever locked in position P switch
J519 Onboard supply control unit
J527 Steering column electronics control unit
J533 Data bus diagnostic interface
T10p 10-pin connector, black (connector A)
T20b 20-pin connector, black (connector A)
T20d 20-pin connector, yellow (connector A)

(44) Earth point, lower part of left A-pillar

(368) Earth connection 3, in main wiring harness

(B383) Connection 1 (drive train CAN bus, high), in main wiring harness

(B390) Connection 1 (drive train CAN bus, low), in main wiring harness

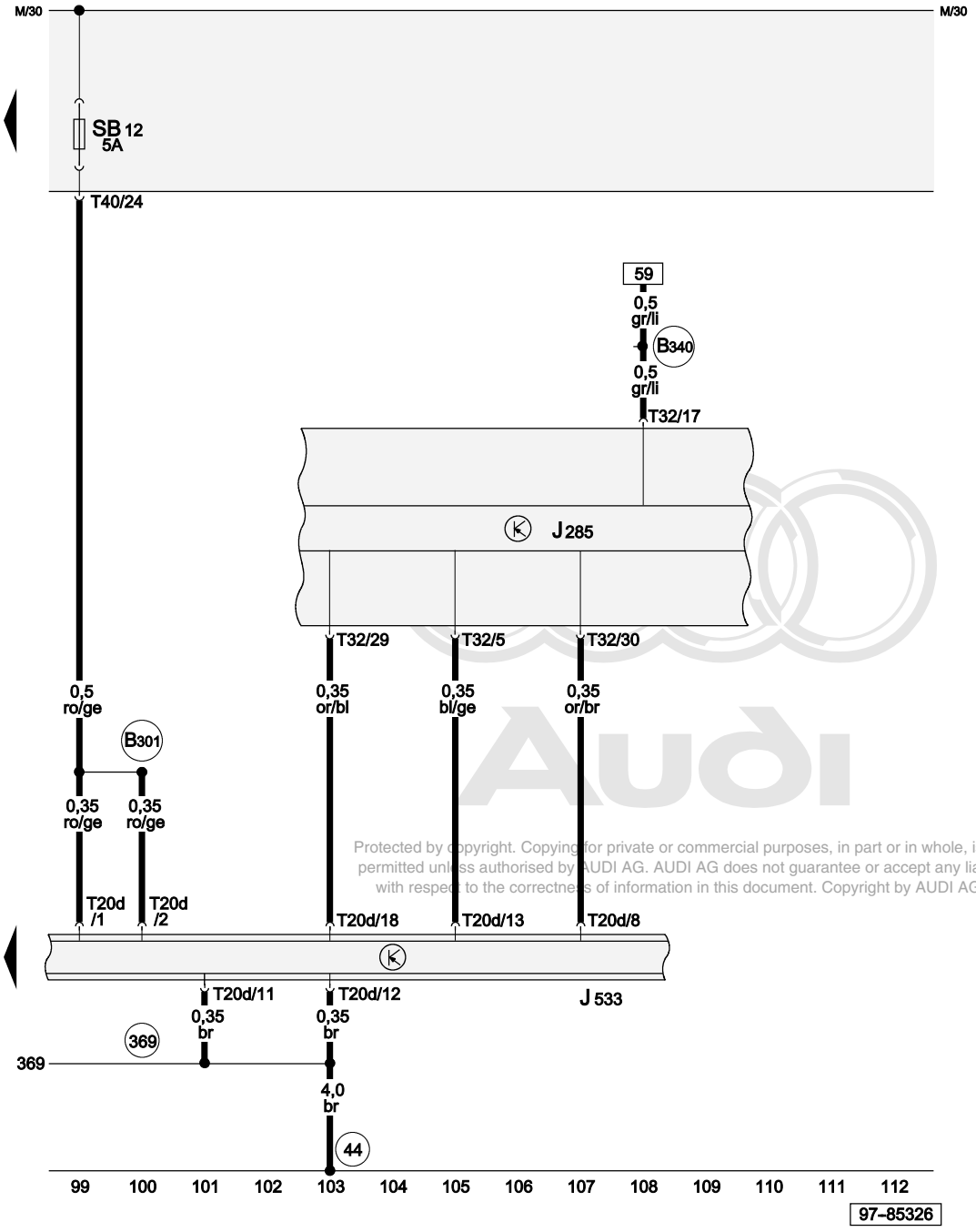


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Ignition/starter switch

D	Ignition/starter switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB2	Fuse 2 on fuse holder B
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness

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Data bus diagnostic interface, control unit in dash panel insert

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B340	Connection 1 (58d), in main wiring harness

Haldex coupling with four-wheel drive

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

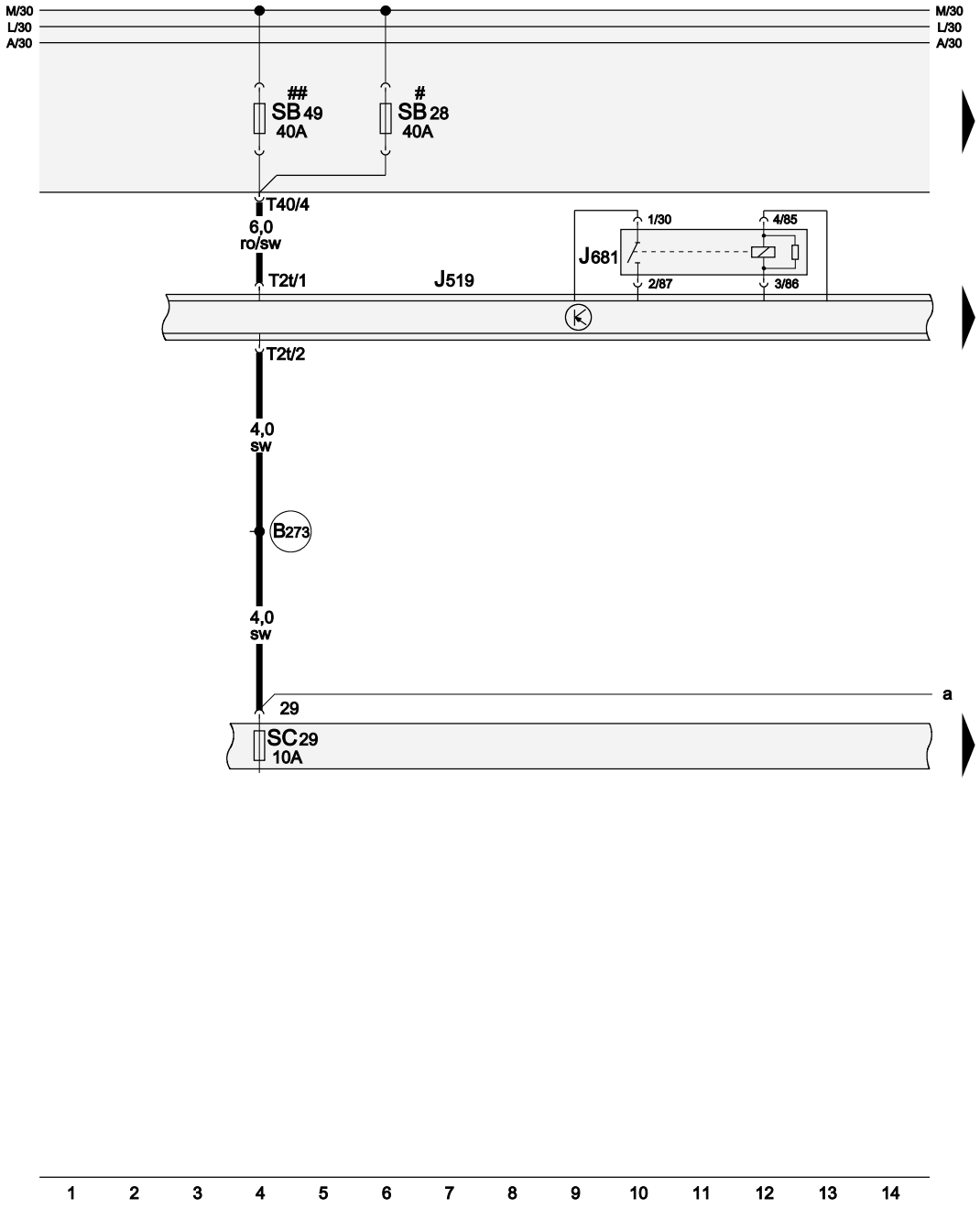
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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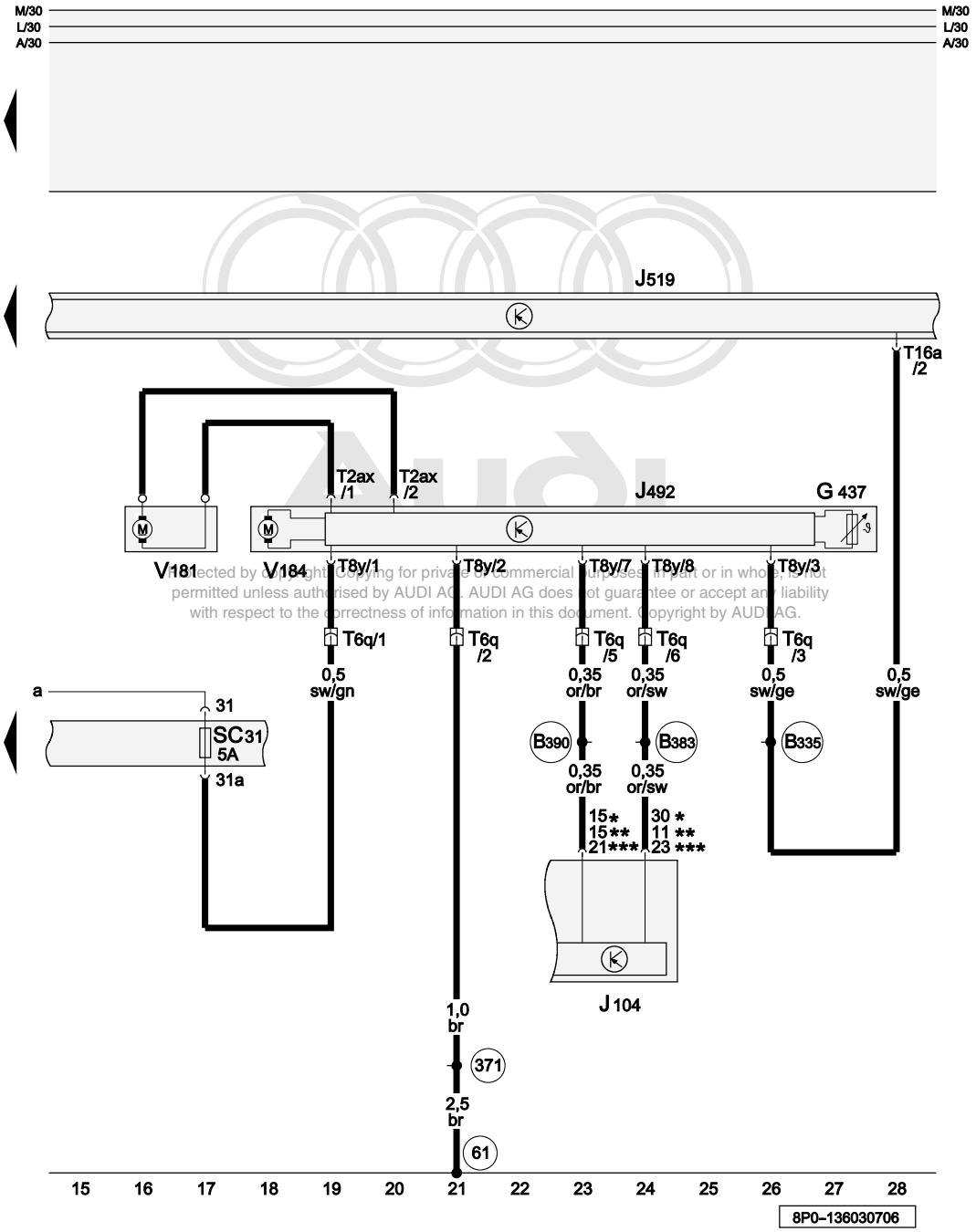


Terminal 15 voltage supply relay 2, fuses on fuse holder

J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC29	Fuse 29 on fuse holder C
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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Fuses on fuse holder C, four-wheel drive control unit

G437	Oil pressure and oil temperature sender
J104	ABS control unit
J492	Four-wheel drive control unit
J519	Onboard supply control unit
SC31	Fuse 31 on fuse holder C
T2ax	2-pin connector, near four-wheel drive control unit
T6q	6-pin connector, black, near fuel gauge sender 2
T8y	8-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
V181	Haldex coupling pump
V184	Oil pressure control motor
61	Earth point, left C-pillar
371	Earth connection 6, in main wiring harness
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	for models with anti-lock brake system (ABS) MK60 and hydraulic brake servo (HBV) only
**	for models with anti-lock brake system (ABS) MK60 and without hydraulic brake servo (HBV) only
***	for models with anti-lock brake system (ABS) MK70 only

Diagnostic connector

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

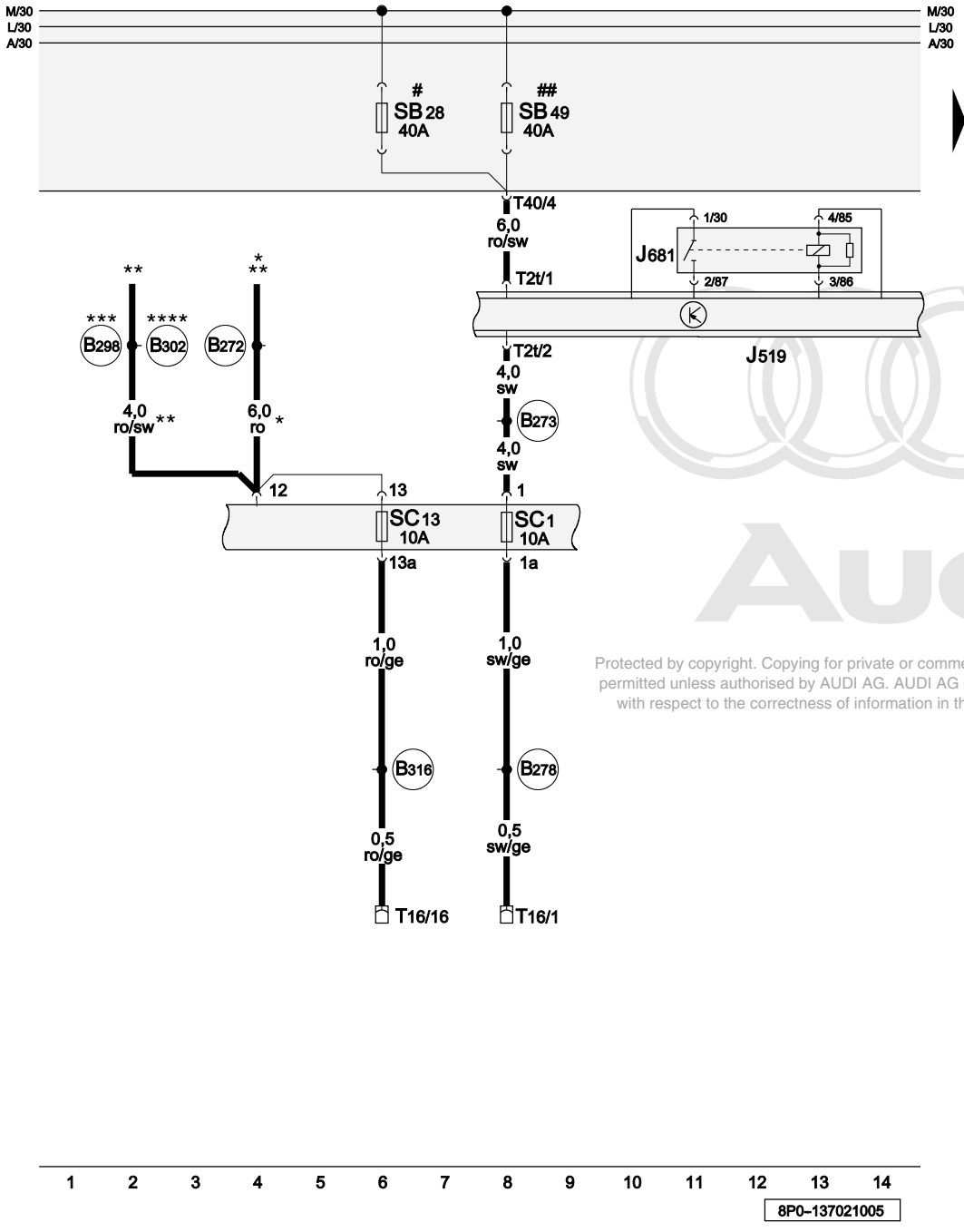
⇒ List of Fitting Locations!

For information concerning

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Diagnostic connector, terminal 15 voltage supply relay 2, fuses

J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC13	Fuse 13 on fuse holder C
T2t	2-pin connector, black (connector L)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B272	Positive connection (30), in main wiring harness
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B302	Positive connection 6 (30), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
***	Is dropped from November 2005
****	applicable from November 2005
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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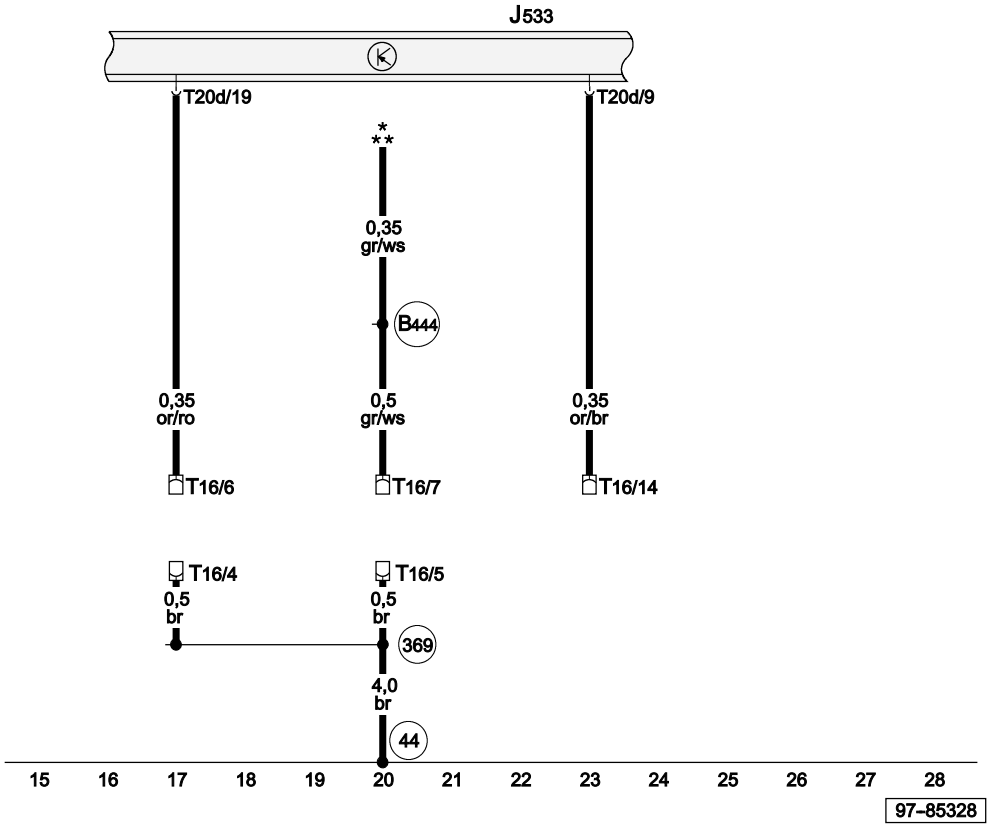
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Data bus diagnostic interface, diagnostic connector

J533	Data bus diagnostic interface
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	⇒ applicable Current Flow Diagram: automatic gearbox
**	⇒ applicable engine Current Flow Diagram



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Ultrasonic parking aid, rear

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

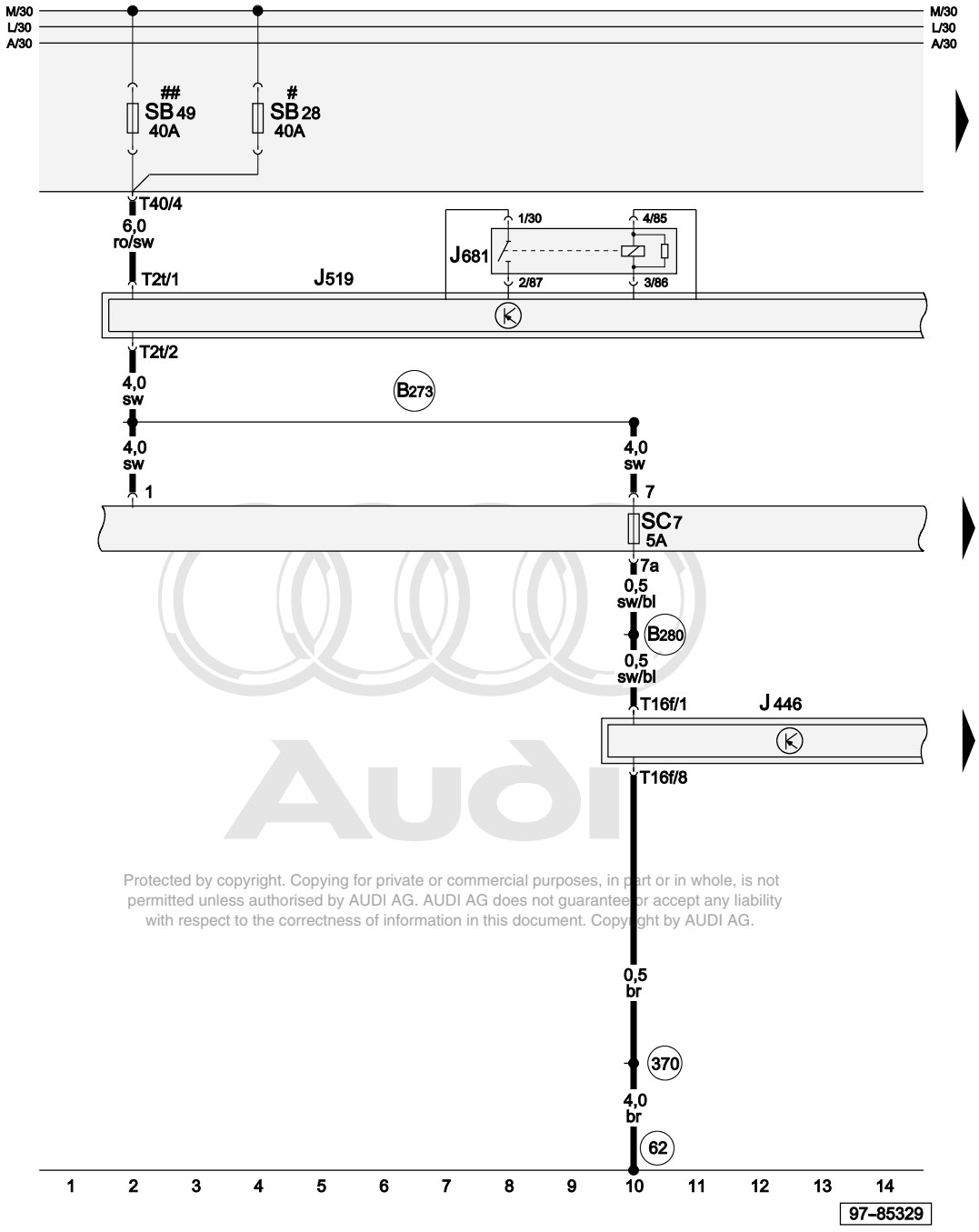
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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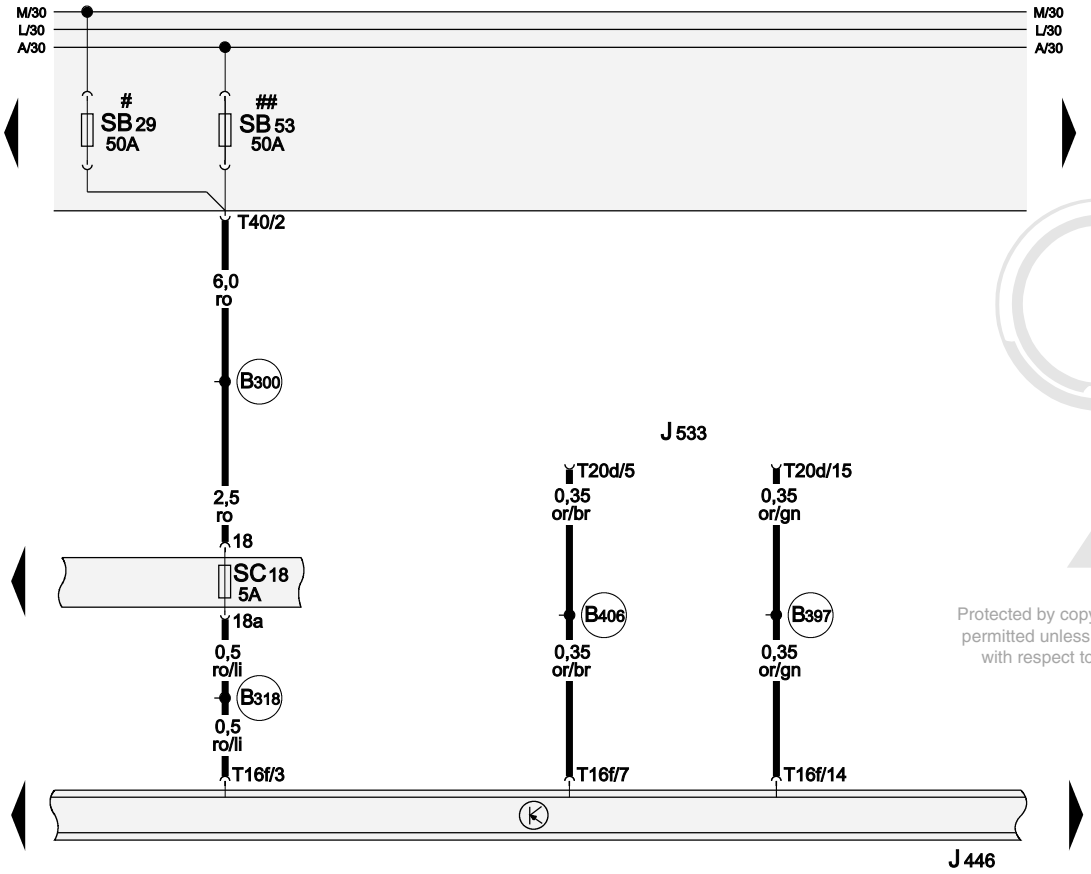


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rs = pink

Terminal 15 voltage supply relay 2, parking aid control unit, fuses on fuse holder

J446	Parking aid control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
T2t	2-pin connector, black (connector L)
T16f	16-pin connector, brown, on parking aid control unit
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
62	Earth point, right C-pillar
370	Earth connection 5, in main wiring harness
B273	Positive connection (15), in main wiring harness
B280	Positive connection 4 (15a), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

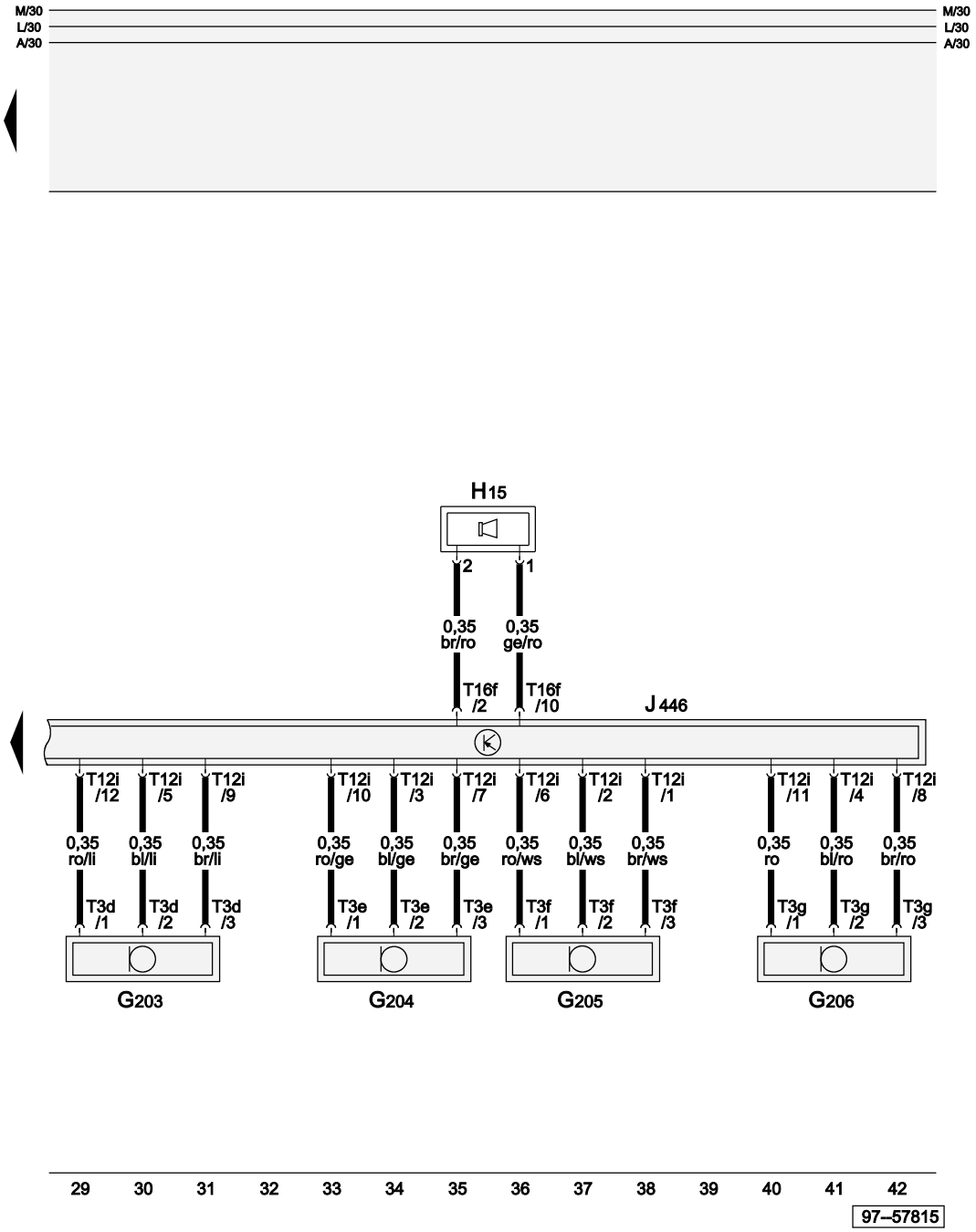


Parking aid control unit, data bus diagnostic interface

J446	Parking aid control unit
J533	Data bus diagnostic interface
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC18	Fuse 18 on fuse holder C
T16f	16-pin connector, brown, on parking aid control unit
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B300	Positive connection 4 (30), in main wiring harness
B318	Positive connection 4 (30a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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rs	=	pink



Parking aid sender, parking aid warning buzzer, parking aid control unit

G203	Rear left parking aid sender
G204	Rear centre left parking aid sender
G205	Rear centre right parking aid sender
G206	Rear right parking aid sender
H15	Rear parking aid warning buzzer
J446	Parking aid control unit
T3d	3-pin connector, black, on rear left parking aid sender
T3e	3-pin connector, black, on rear centre left parking aid sender
T3f	3-pin connector, black, on rear centre right parking aid sender
T3g	3-pin connector, black, on rear right parking aid sender
T12i	12-pin connector, black, on parking aid control unit
T16f	16-pin connector, brown, on parking aid control unit

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Front seat heating with manual seat adjustment

⇒ **only air conditioner with automatic regulation**

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

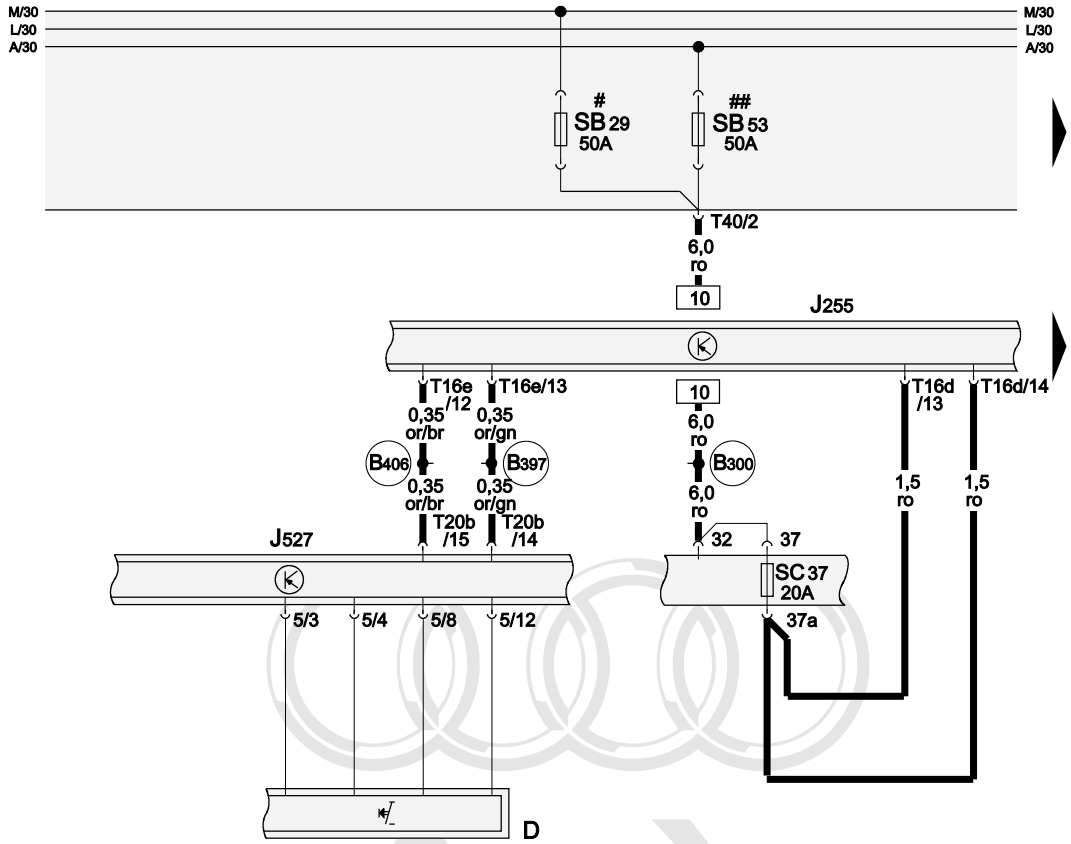
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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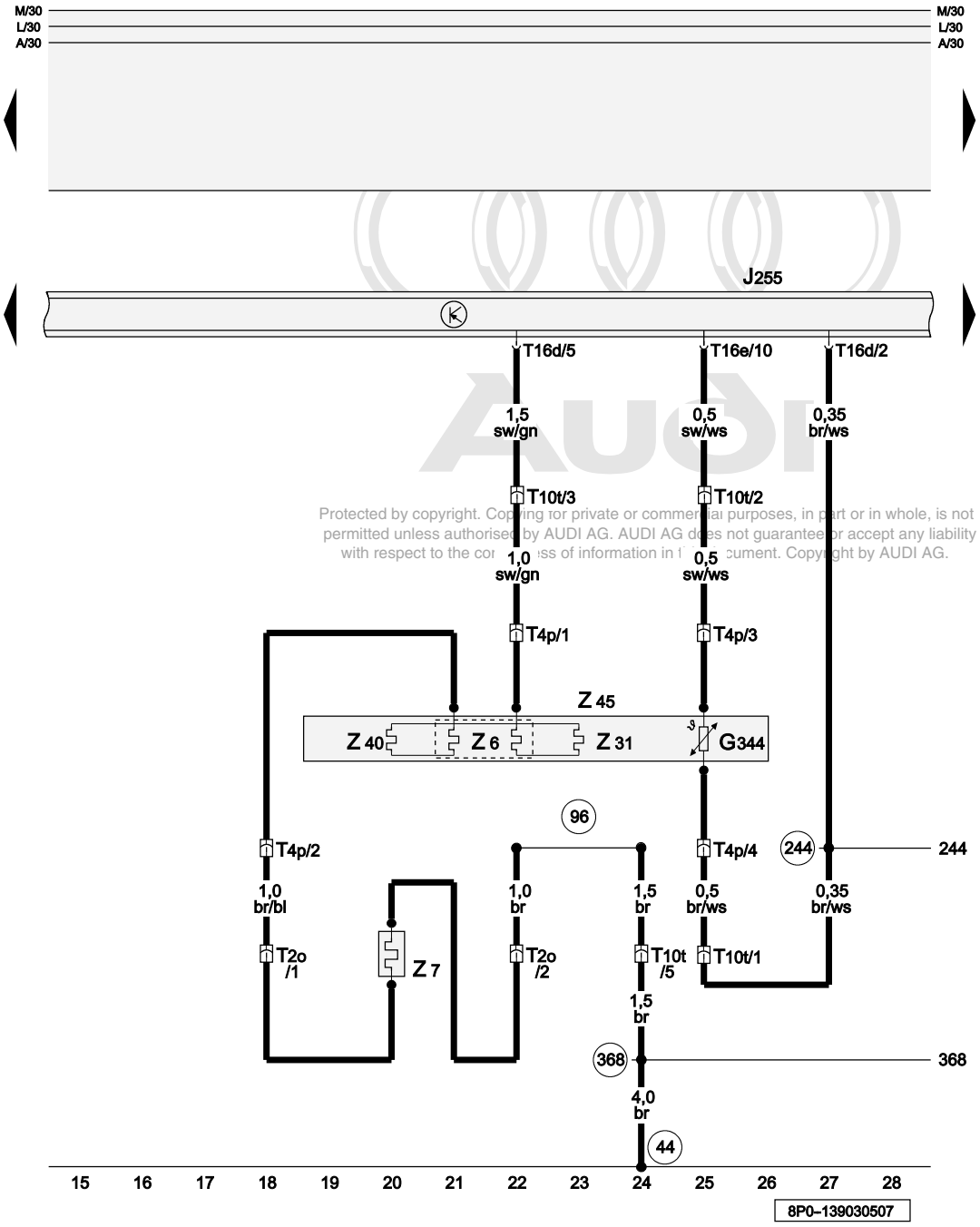
1 2 3 4 5 6 7 8 9 10 11 12 13 14

97-85331

Fuses on fuse holder

D	Ignition/starter switch
J255	Climatronic control unit
J527	Steering column electronics control unit
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC37	Fuse 37 on fuse holder C
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B300	Positive connection 4 (30), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

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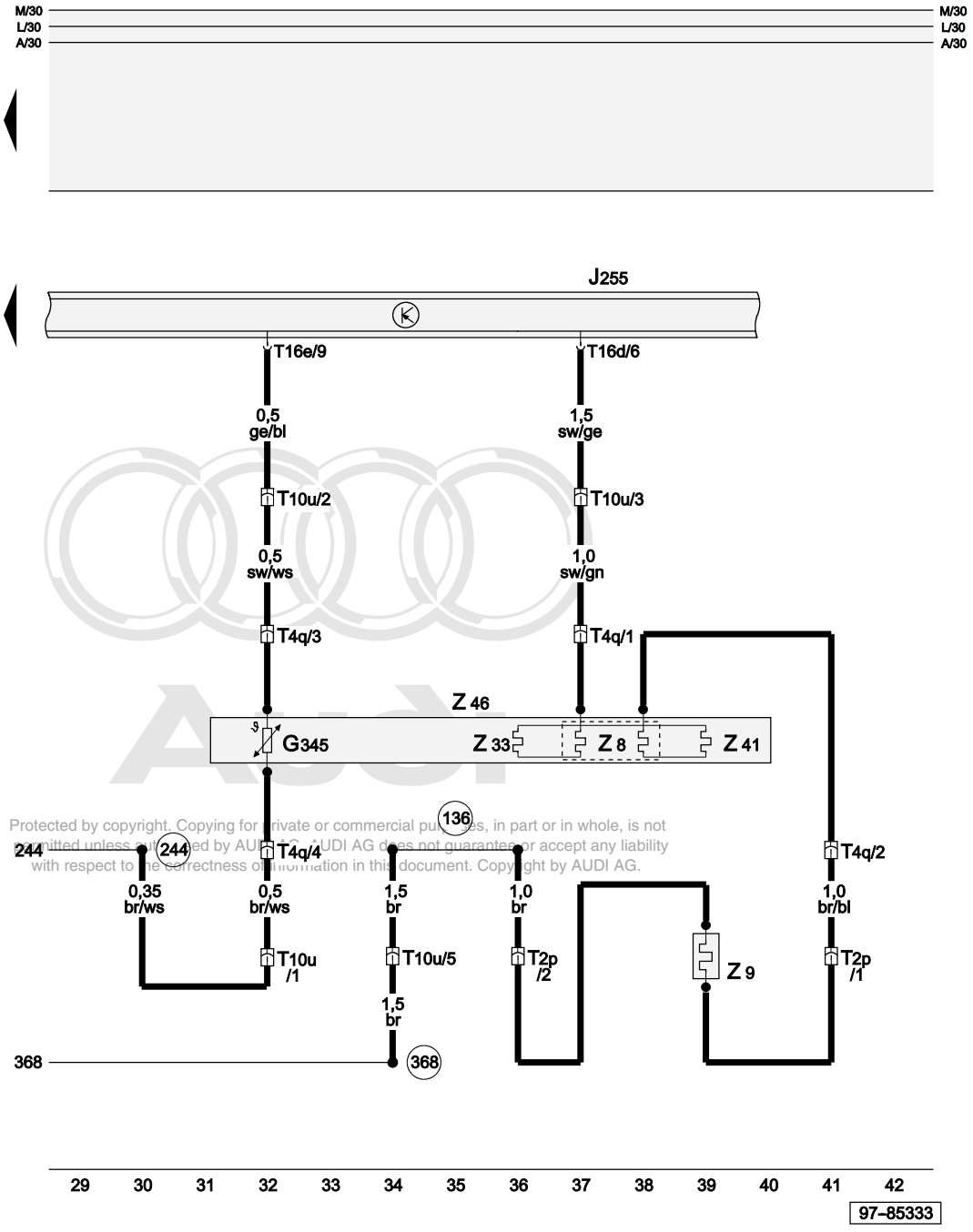


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Heated driver seat cushion

G344	Front left seat temperature sender
J255	Climatronic control unit
T2o	2-pin connector, black, on driver seat for heated driver seat backrest
T4p	4-pin connector, black, on heated driver seat
T10t	10-pin connector, black, under driver seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z6	Heated driver seat cushion
Z7	Heated driver seat backrest
Z31	Driver seat cushion lateral support heater
Z40	Driver seat lateral support heater 2
Z45	Front left seat heating
44	Earth point, lower part of left A-pillar
96	Earth connection 1, in seat heating wiring harness
244	Earth connection (sender earth), in Climatronic wiring harness
368	Earth connection 3, in main wiring harness

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Heated front passenger seat cushion

G345	Front right seat temperature sender
J255	Climatronic control unit
T2p	2-pin connector, black, on front passenger seat for heated front passenger seat backrest
T4q	4-pin connector, black, on heated front passenger seat
T10u	10-pin connector, black, under front passenger seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z8	Heated front passenger seat cushion
Z9	Heated front passenger seat backrest
Z33	Front passenger seat lateral support heater
Z41	Front passenger seat lateral support heater 2
Z46	Front right seat heating
136	Earth connection 2, in seat heating wiring harness
244	Earth connection (sender earth), in Climatronic wiring harness
368	Earth connection 3, in main wiring harness

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or	=	orange
rs	=	pink

Front seat heating, without air conditioning system, with manual seat adjustment

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

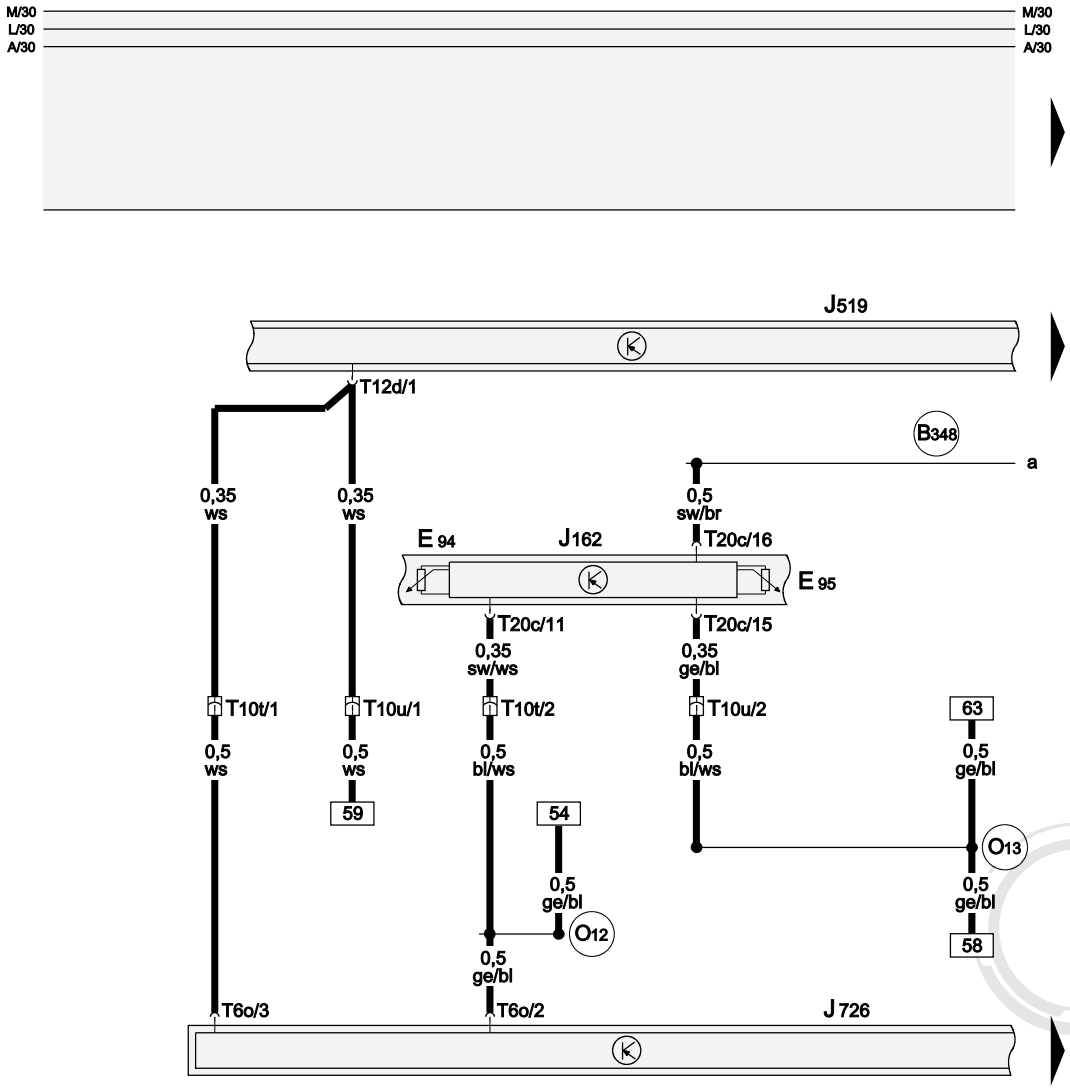
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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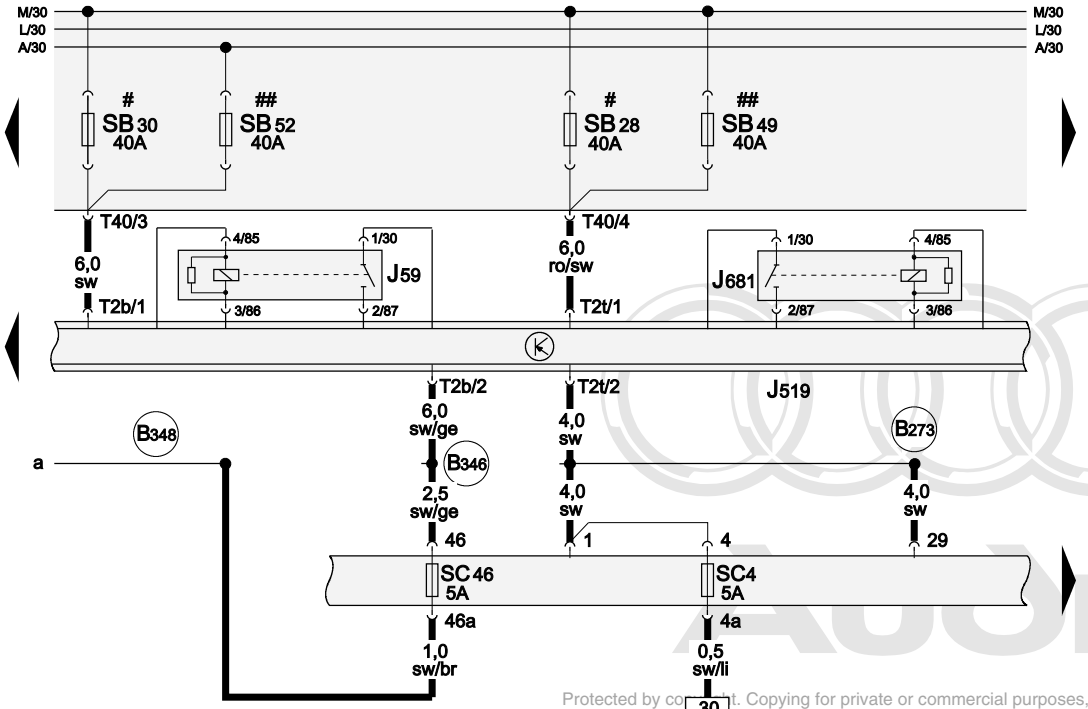


Heated driver seat regulator, heated front passenger seat regulator

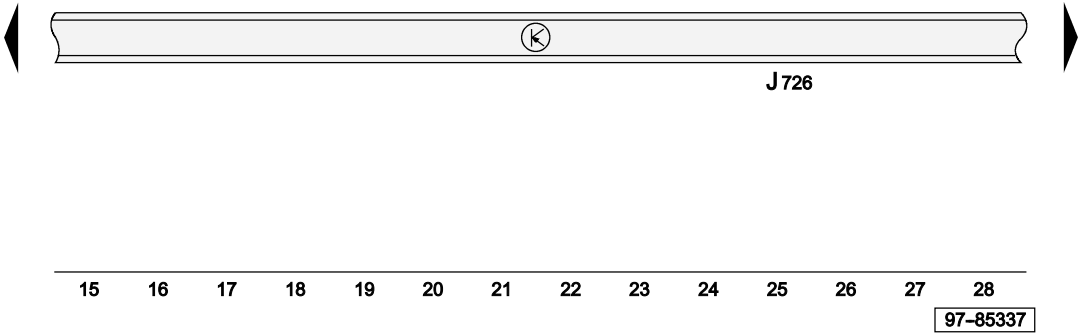
E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
J162	Heater control unit
J519	Onboard supply control unit
J726	Driver seat heating control unit
T6o	6-pin connector, black, on driver seat heating control unit
T10t	10-pin connector, black, under driver seat
T10u	10-pin connector, black, under front passenger seat
T12d	12-pin connector, brown (connector C)
T20c	20-pin connector, black (connector A)
B348	Connection 1 (75A), in main wiring harness
O12	Connection 1, in seat heating wiring harness
O13	Connection 2, in seat heating wiring harness

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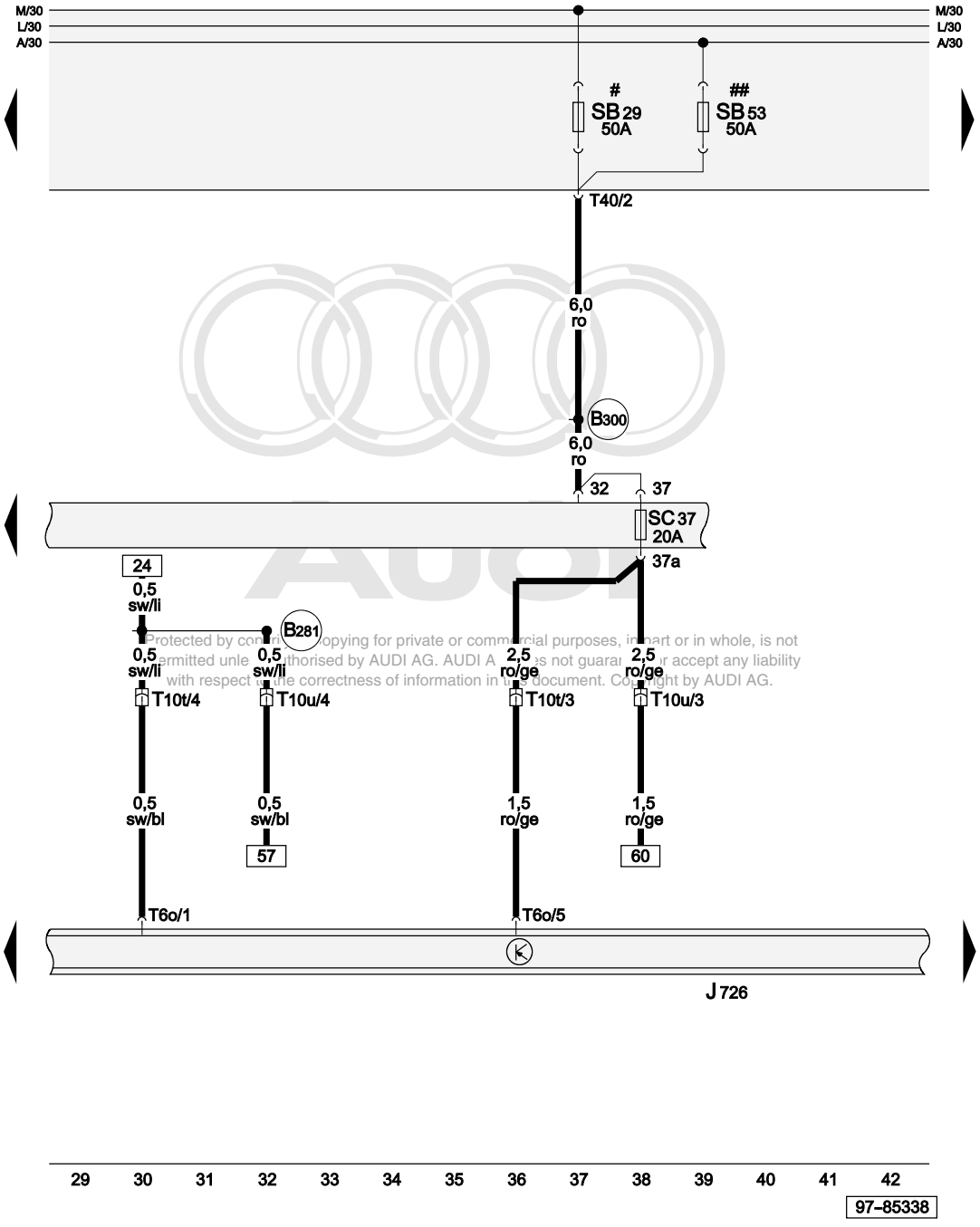
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Driver seat heating control unit, terminal 15 voltage supply relay 2

J59	X-contact relief relay
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
J726	Driver seat heating control unit
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB52	Fuse 52 on fuse holder B
SC4	Fuse 4 on fuse holder C
SC46	Fuse 46 on fuse holder C
T2b	2-pin connector, brown (connector I)
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws	=	white
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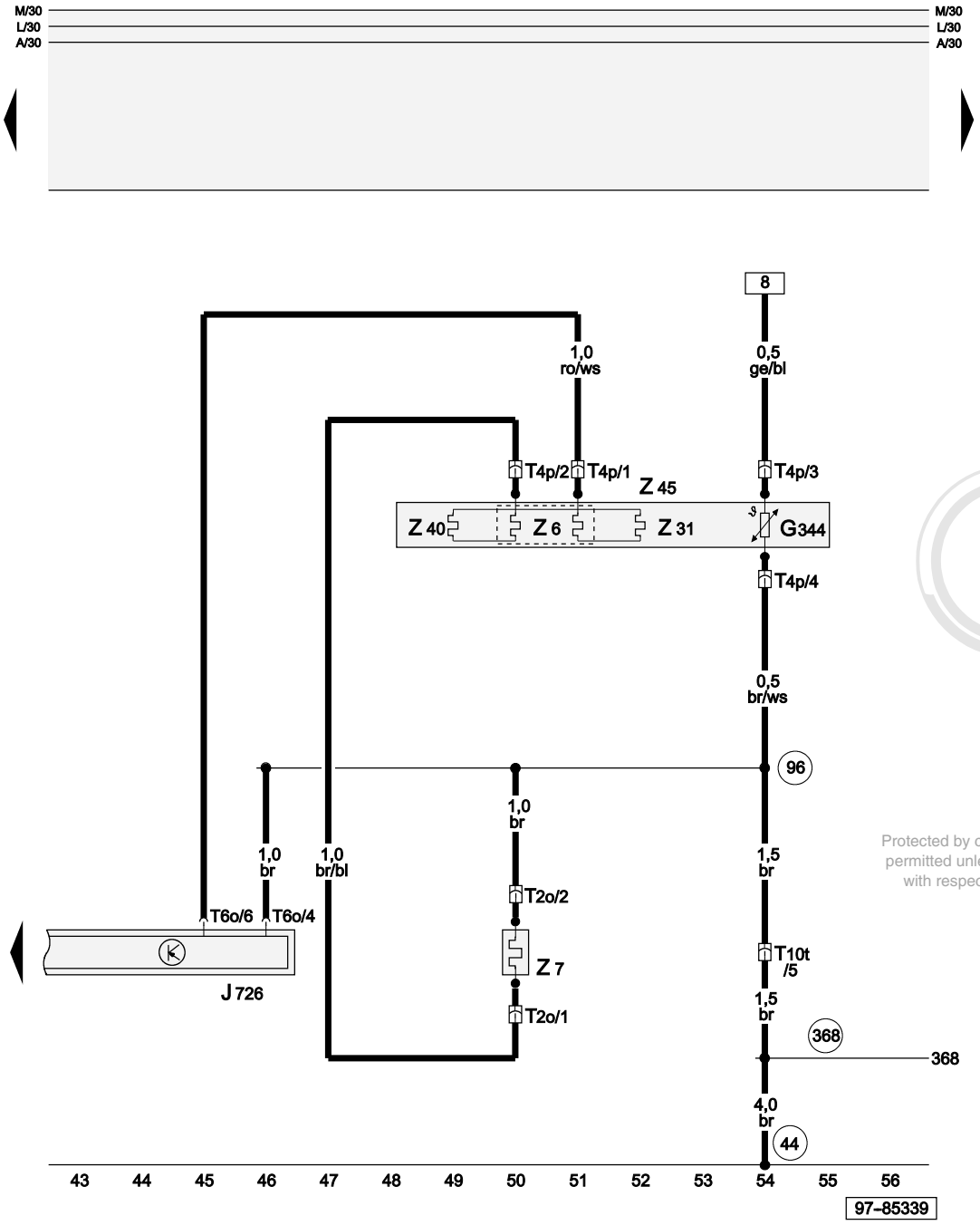


Driver seat heating control unit, fuses on fuse holder

J726	Driver seat heating control unit
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC37	Fuse 37 on fuse holder C
T6o	6-pin connector, black, on driver seat heating control unit
T10t	10-pin connector, black, under driver seat
T10u	10-pin connector, black, under front passenger seat
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B281	Positive connection 5 (15a), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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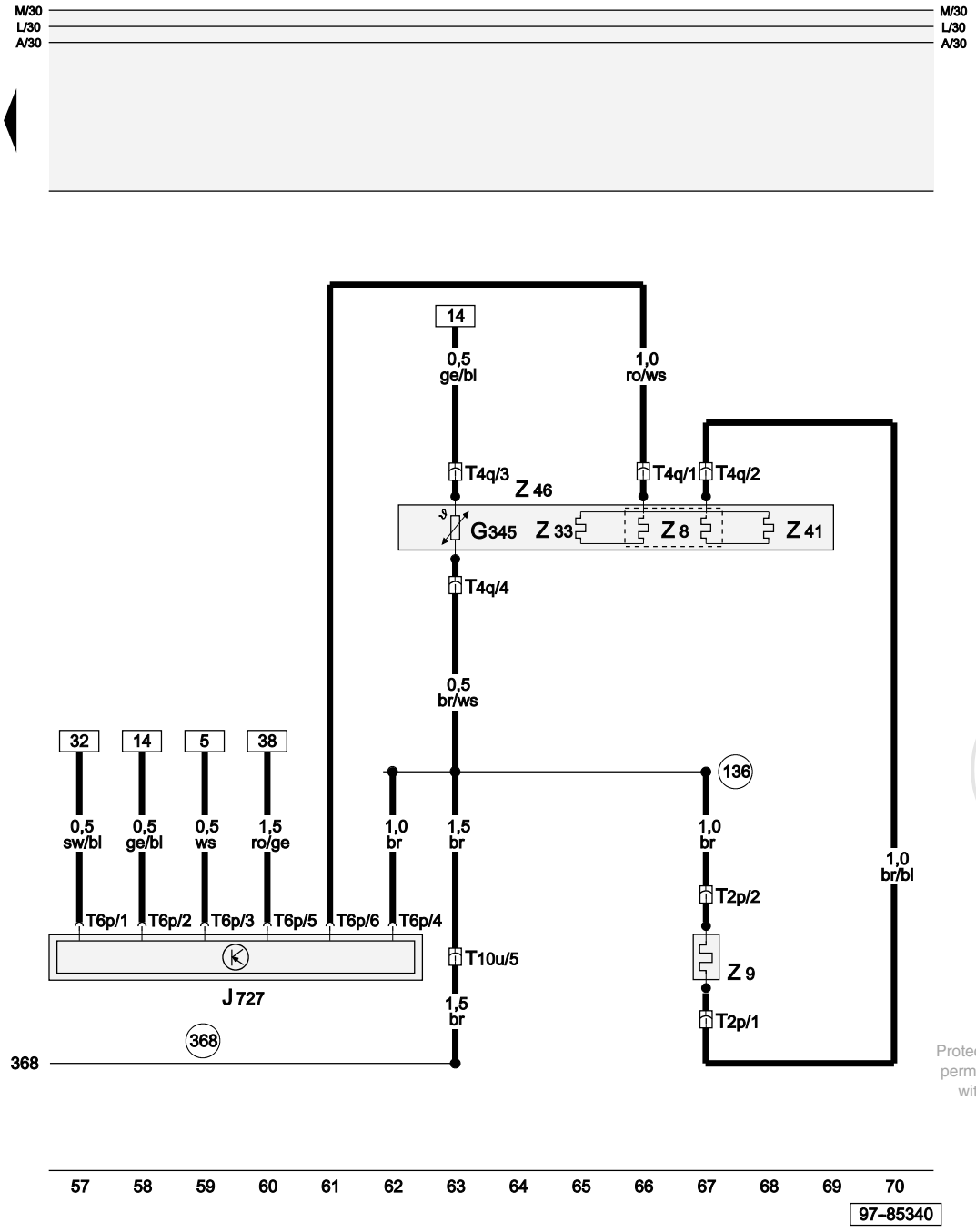


Driver seat heating control unit, heated seat cushion for front left seat

G344	Front left seat temperature sender
J726	Driver seat heating control unit
T2o	2-pin connector, black, on driver seat for heated driver seat backrest
T4p	4-pin connector, black, on heated driver seat
T6o	6-pin connector, black, on driver seat heating control unit
T10t	10-pin connector, black, under driver seat
Z6	Heated driver seat cushion
Z7	Heated driver seat backrest
Z31	Driver seat cushion lateral support heater
Z40	Driver seat lateral support heater 2
Z45	Front left seat heating
44	Earth point, lower part of left A-pillar
96	Earth connection 1, in seat heating wiring harness
368	Earth connection 3, in main wiring harness

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rs	=	pink



Front passenger seat heating control unit, heated seat cushion for front right seat

G345	Front right seat temperature sender
J727	Front passenger seat heating control unit
T2p	2-pin connector, black, on front passenger seat for heated front passenger seat backrest
T4q	4-pin connector, black, on heated front passenger seat
T6p	6-pin connector, black, on front passenger seat heating control unit
T10u	10-pin connector, black, under front passenger seat
Z8	Heated front passenger seat cushion
Z9	Heated front passenger seat backrest
Z33	Front passenger seat lateral support heater
Z41	Front passenger seat lateral support heater 2
Z46	Front right seat heating
136	Earth connection 2, in seat heating wiring harness
368	Earth connection 3, in main wiring harness

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Rear heated seat, with and without air conditioning system

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

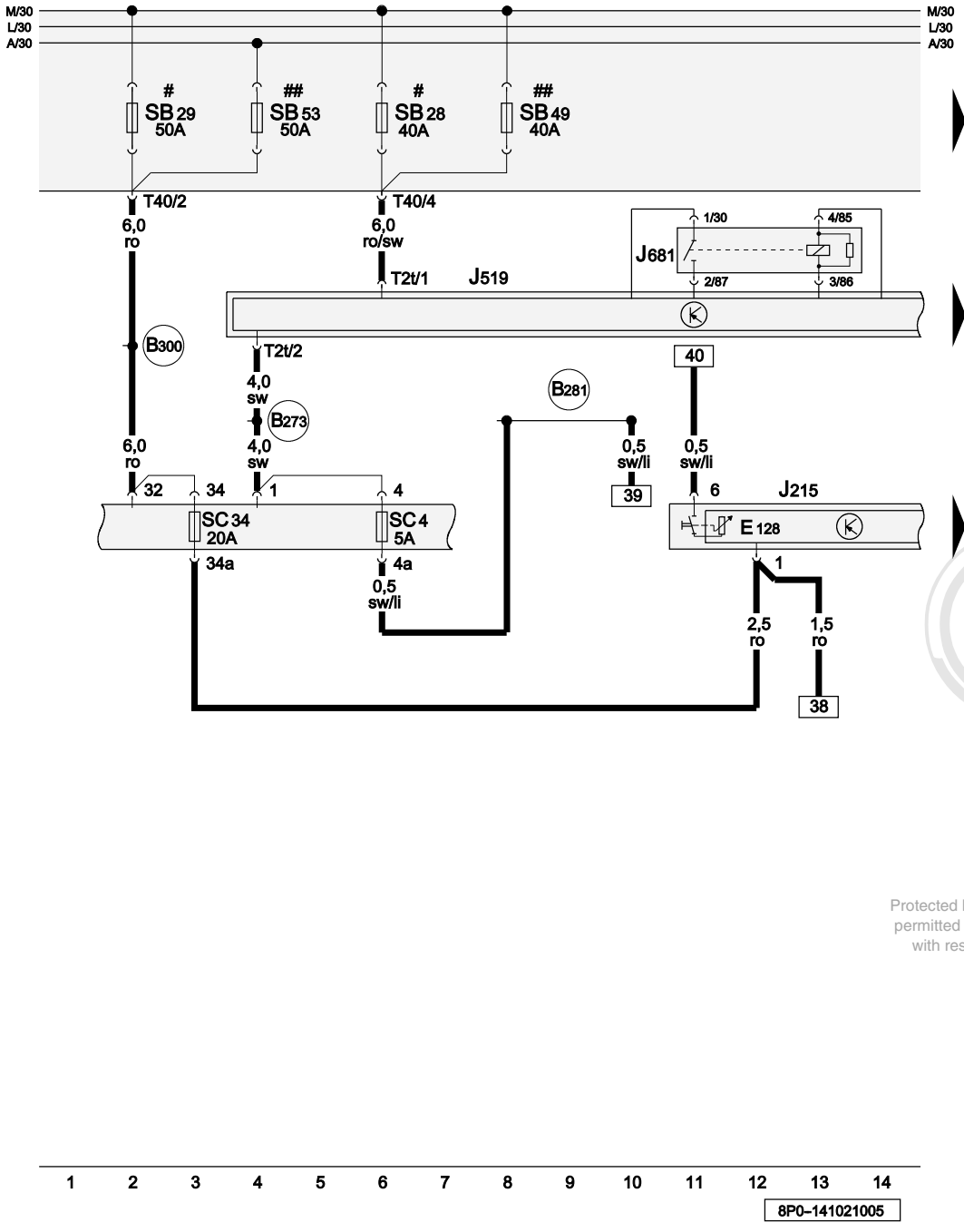
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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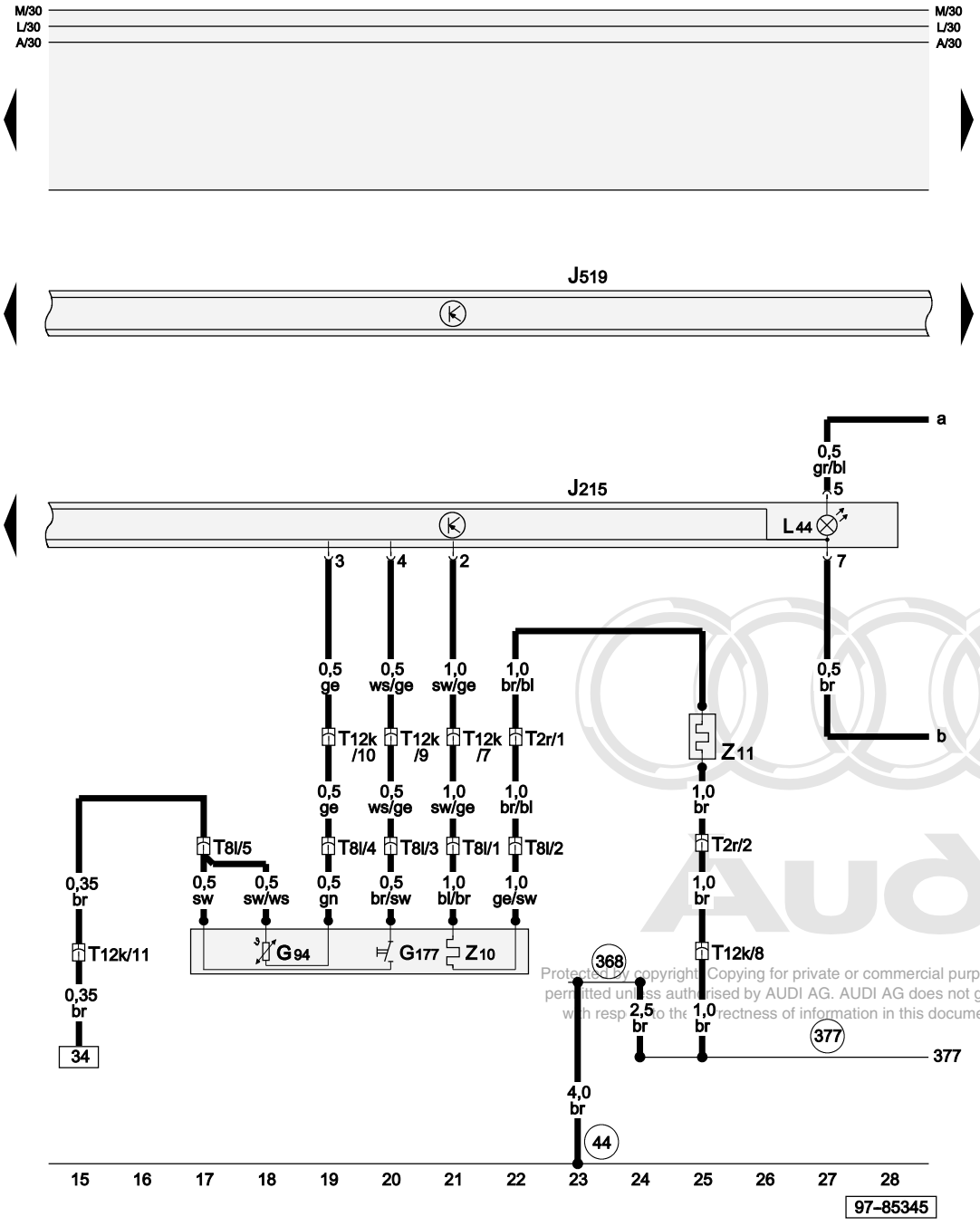


Heated rear left seat control unit, fuse on fuse holder

E128	Heated rear left seat switch with regulator
J215	Heated rear left seat control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC4	Fuse 4 on fuse holder C
SC34	Fuse 34 on fuse holder C
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
B281	Positive connection 5 (15a), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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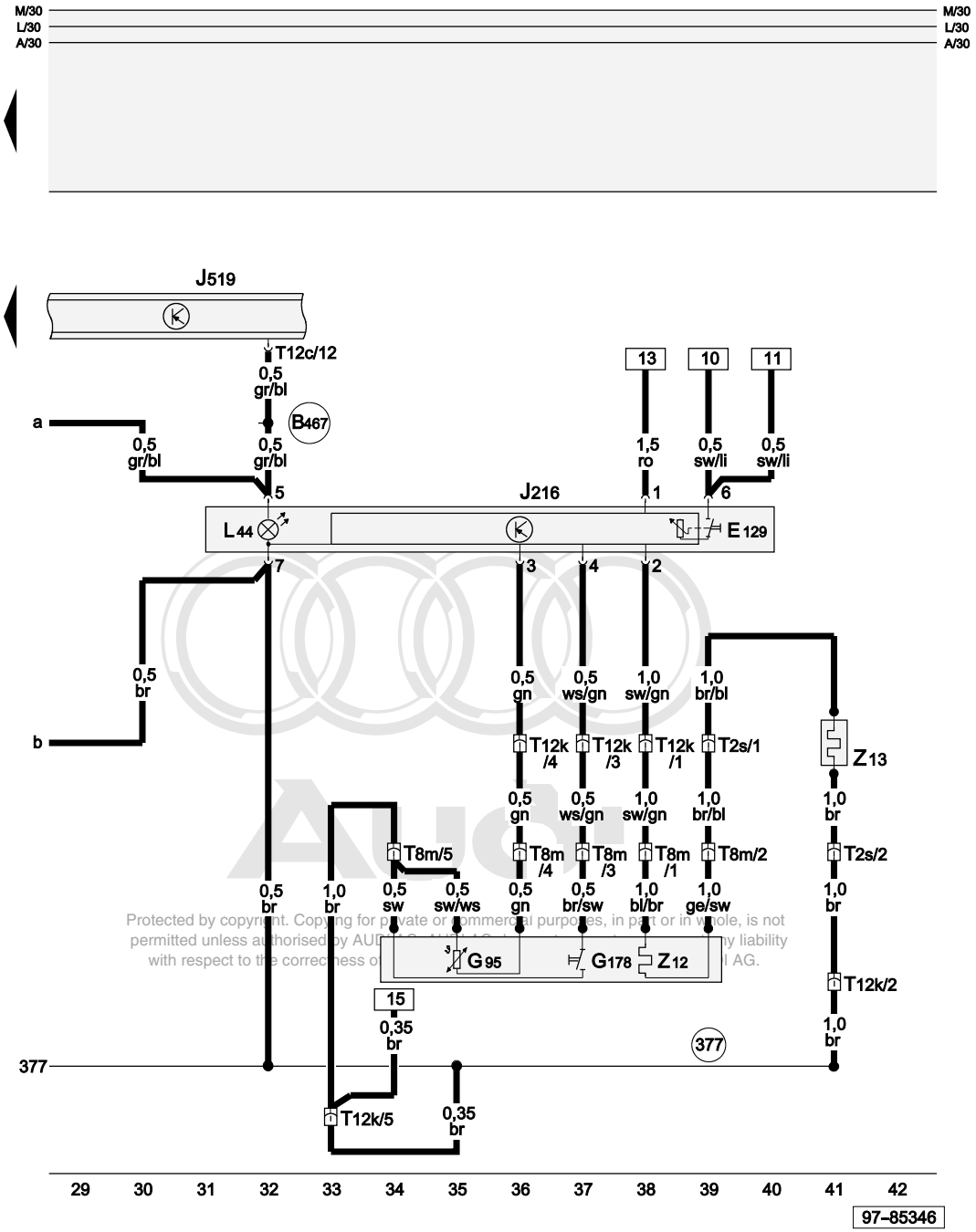


Heated rear left seat control unit, rear left seat temperature sensor

G94	Rear left seat temperature sensor
G177	Rear seat occupied sensor on driver side
J215	Heated rear left seat control unit
J519	Onboard supply control unit
L44	Seat heating switch illumination bulb
T2r	2-pin connector, black, under rear seat bench
T8l	8-pin connector, black, on rear left seat
T12k	12-pin connector, black, under rear seat bench
Z10	Heated rear left seat
Z11	Heated rear left seat backrest
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
377	Earth connection 12, in main wiring harness

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Heated rear right seat control unit, rear right seat temperature sensor

E129	Heated rear right seat switch with regulator
G95	Rear right seat temperature sensor
G178	Rear seat occupied sensor on front passenger side
J216	Heated rear right seat control unit
J519	Onboard supply control unit
L44	Seat heating switch illumination bulb
T2s	2-pin connector, black, under rear seat bench
T8m	8-pin connector, black, on rear right seat
T12c	12-pin connector, black (connector B)
T12k	12-pin connector, black, under rear seat bench
Z12	Heated rear right seat
Z13	Heated rear right seat backrest
377	Earth connection 12, in main wiring harness
B467	Connection 3, in main wiring harness

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Tyre pressure monitor

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

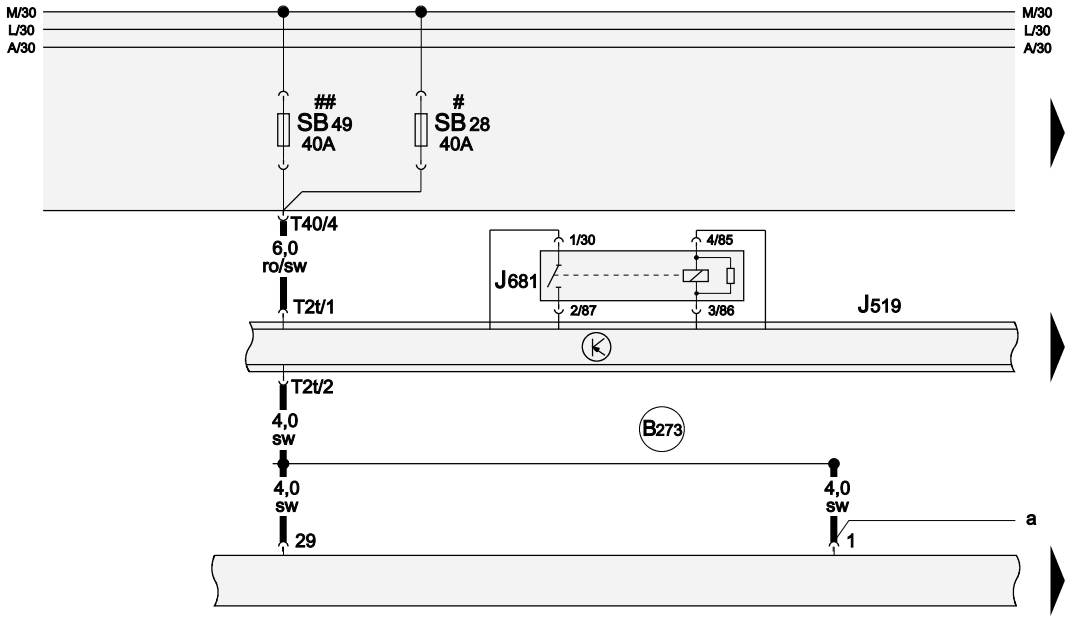
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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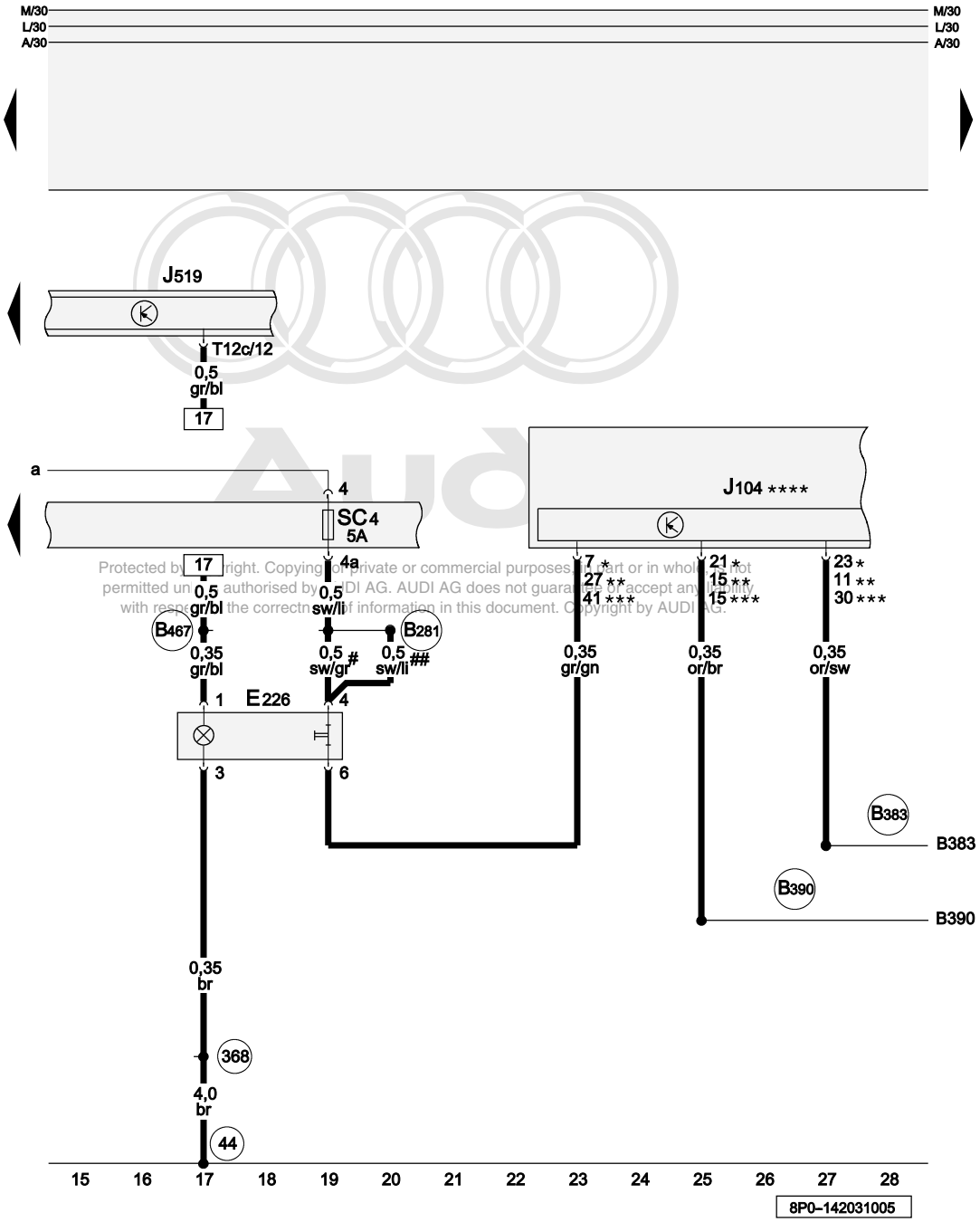


Terminal 15 voltage supply relay 2

J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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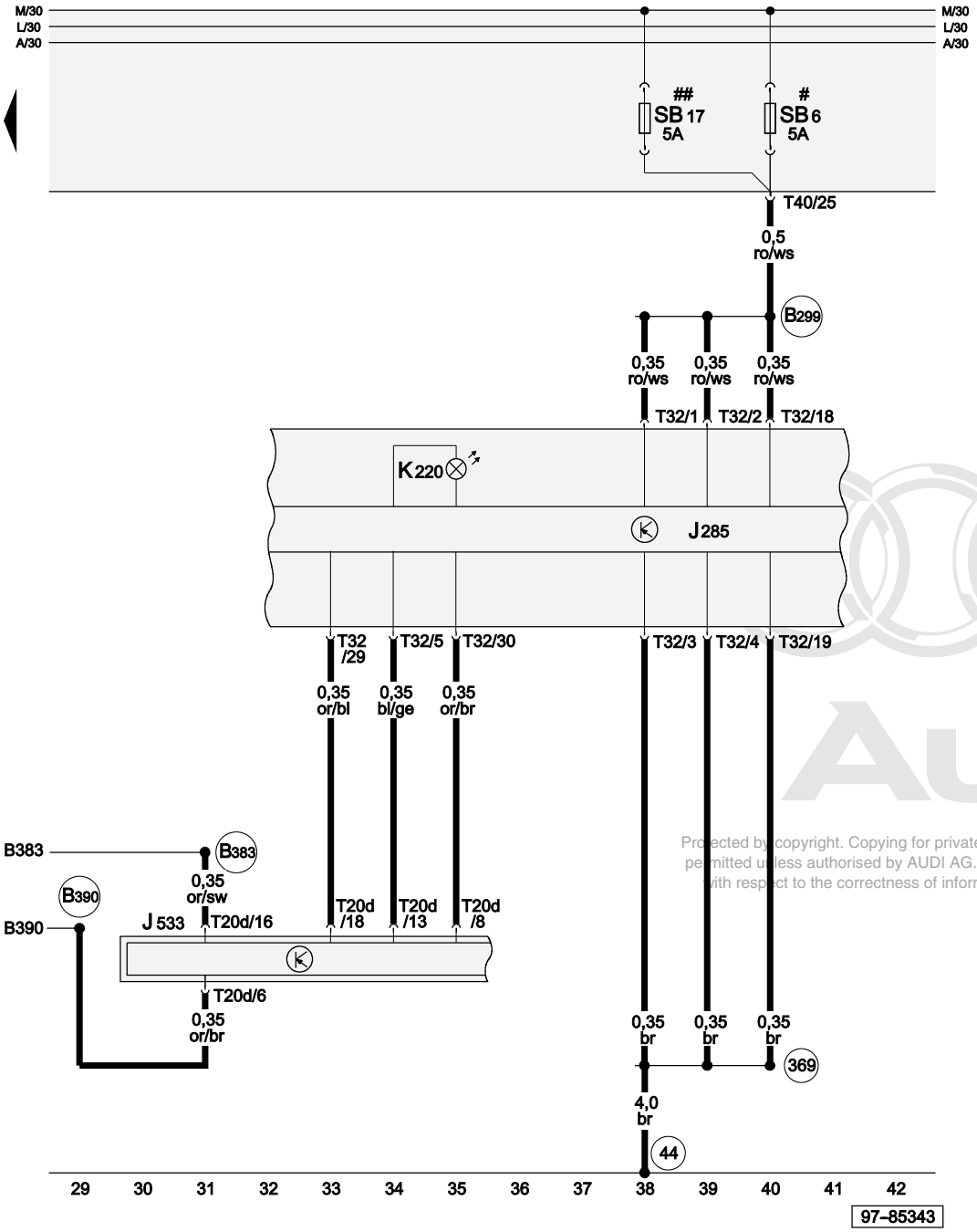


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rs = pink

Tyre pressure monitor button

E226	Tyre pressure monitor button
J104	ABS control unit
J519	Onboard supply control unit
SC4	Fuse 4 on fuse holder C
T12c	12-pin connector, black (connector B)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B281	Positive connection 5 (15a), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B467	Connection 3, in main wiring harness
*	for models with anti-lock brake system (ABS) MK70 only
**	for models with anti-lock brake system (ABS) MK60 and direct shift gearbox (02E) or manual gearbox only
***	for models with anti-lock brake system (ABS) MK60 and automatic gearbox (09G) only
****	⇒ applicable Current Flow Diagram: anti-lock brake system (ABS)
#	No longer fitted, phased-in modification
##	phased-in modification



Control unit in dash panel insert, tyre pressure monitor warning lamp

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K220	Tyre pressure monitor warning lamp
SB6	Fuse 6 on fuse holder B
SB17	Fuse 17 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B299	Positive connection 3 (30), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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Air conditioner with automatic regulation

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

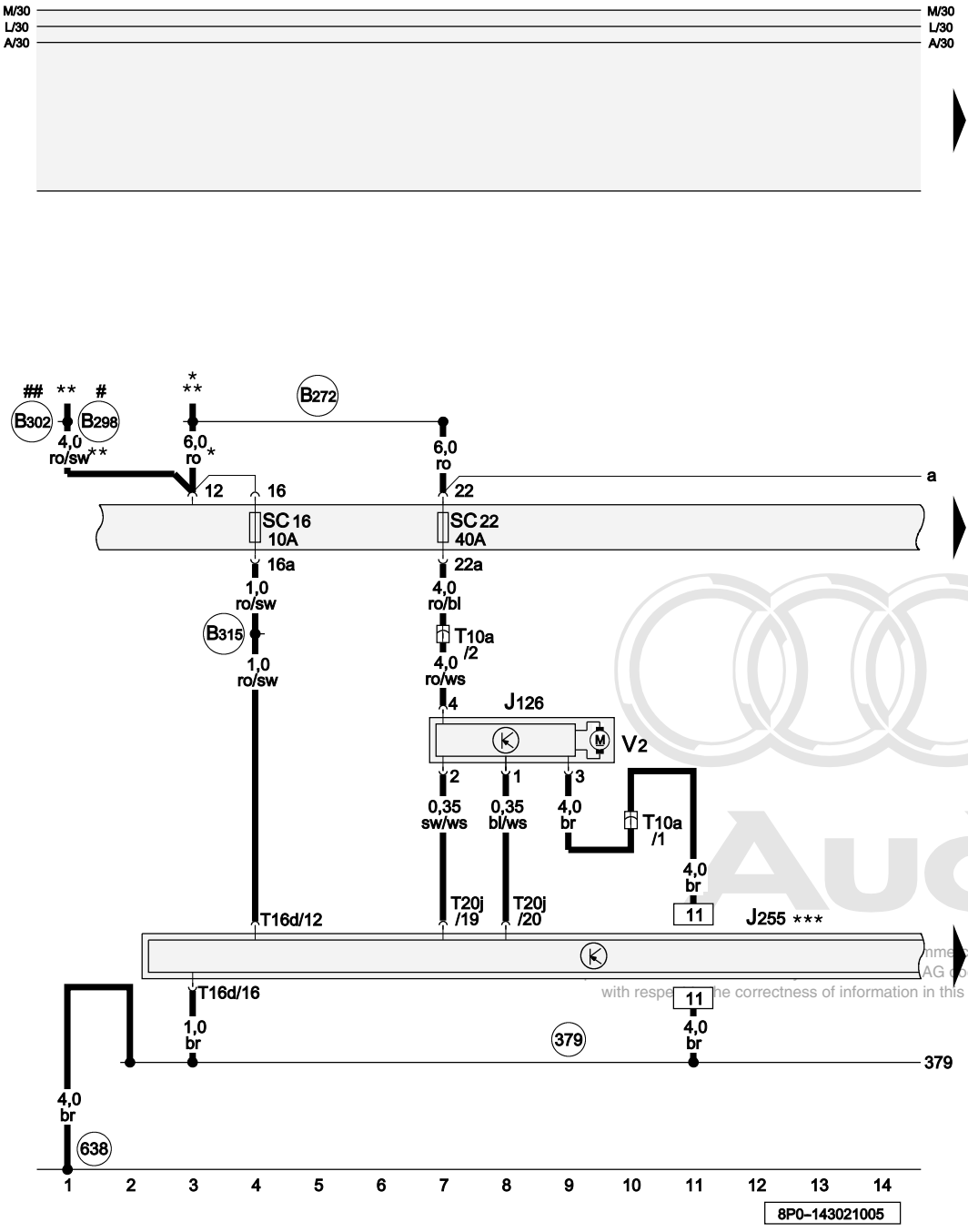
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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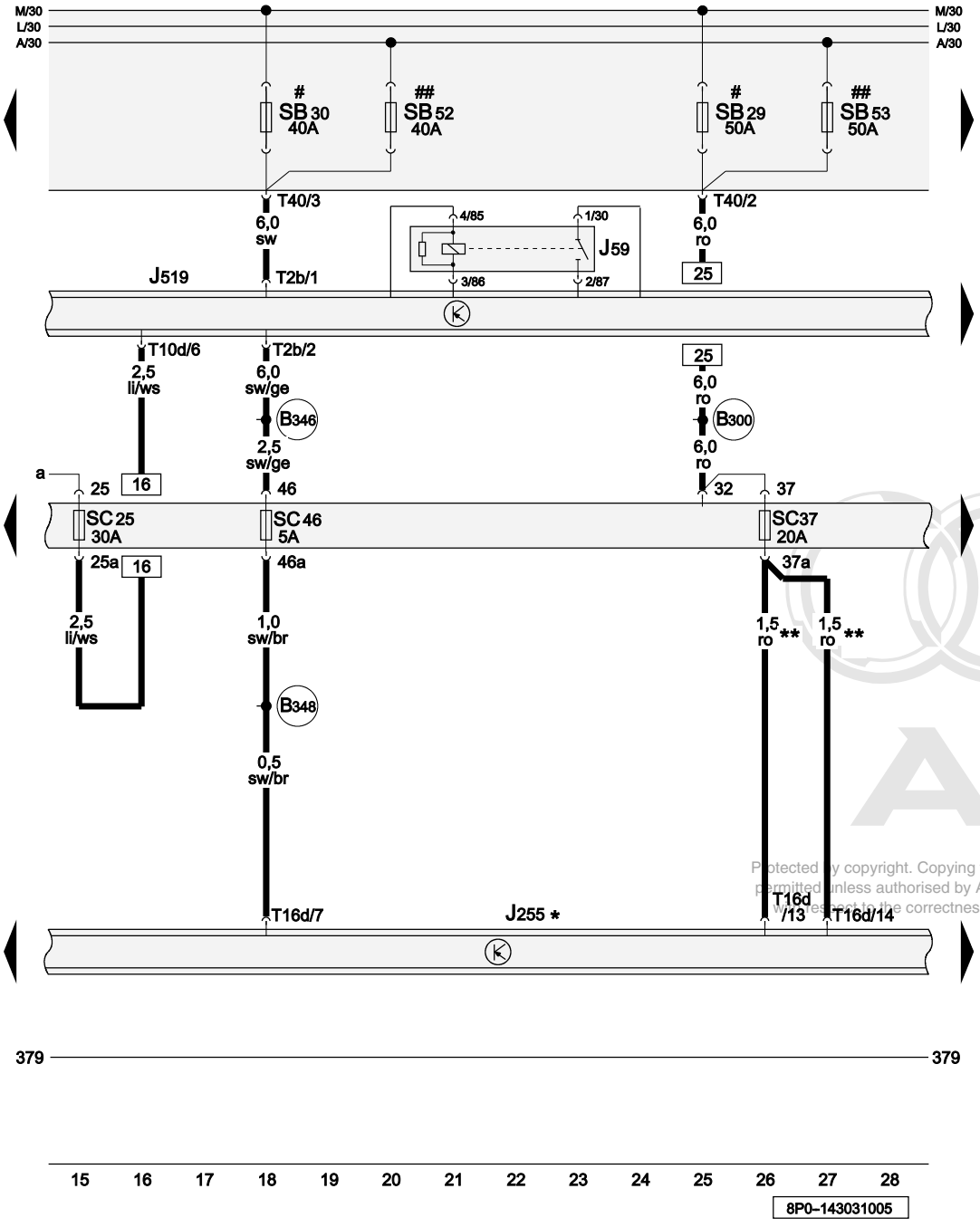


Fresh air blower control unit, fuses on fuse holder

J126	Fresh air blower control unit
J255	Climatronic control unit
SC16	Fuse 16 on fuse holder C
SC22	Fuse 22 on fuse holder C
T10a	10-pin connector, black, behind the glove compartment
T16d	16-pin connector, black (connector D)
T20j	20-pin connector, red (connector B)
V2	Fresh air blower
379	Earth connection 14, in main wiring harness
638	Earth point, right A-pillar
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B302	Positive connection 6 (30), in main wiring harness
B315	Positive connection 1 (30a), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	⇒ applicable Current Flow Diagram for models with battery in luggage compartment
***	operating and display unit for air conditioning system/Climatronic
#	Is dropped from November 2005
##	applicable from November 2005

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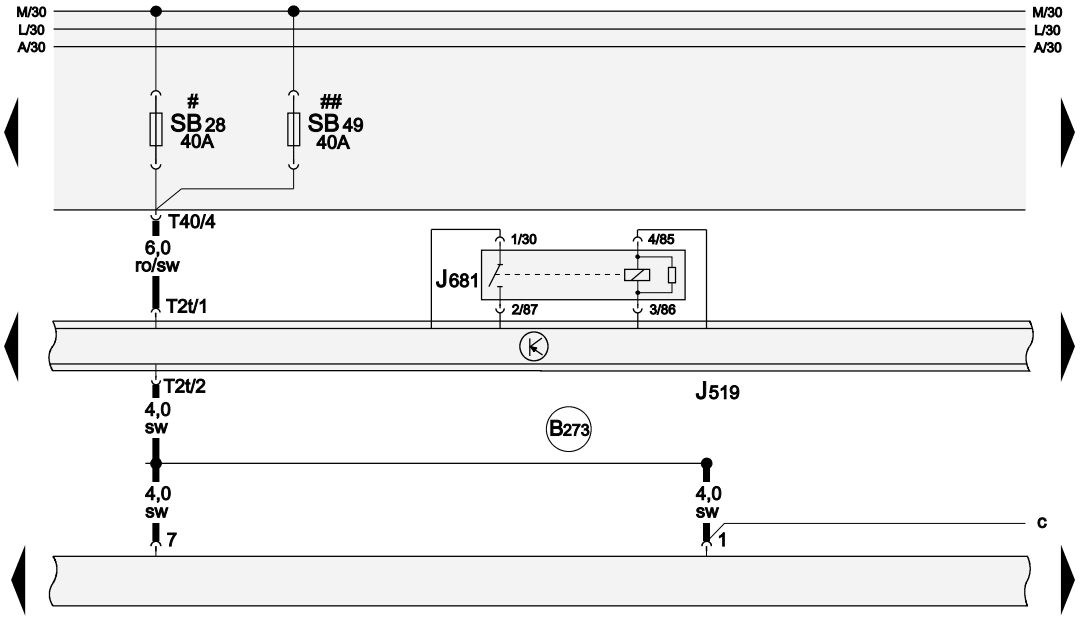


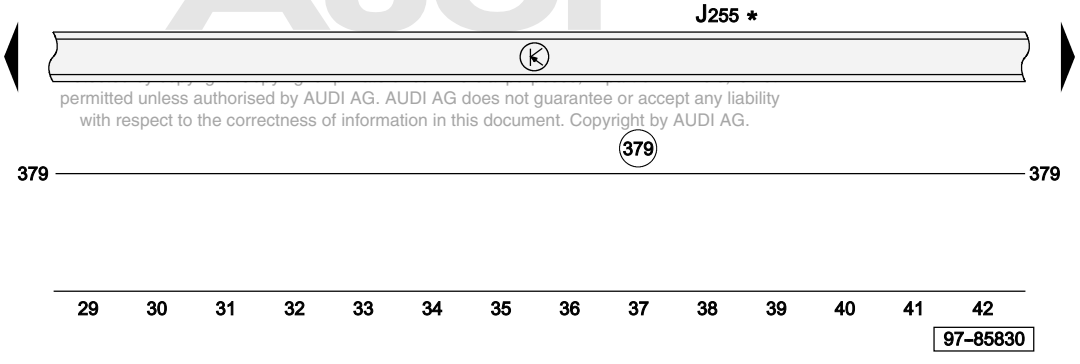
X-contact relief relay, fuses on fuse holder

J59	X-contact relief relay
J255	Climatronic control unit
J519	Onboard supply control unit
SB29	Fuse 29 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB52	Fuse 52 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC25	Fuse 25 on fuse holder C
SC37	Fuse 37 on fuse holder C
SC46	Fuse 46 on fuse holder C
T2b	2-pin connector, brown (connector I)
T10d	10-pin connector, black (connector K)
T16d	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B300	Positive connection 4 (30), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
*	operating and display unit for air conditioning system/Climatronic
**	for models with seat heating only
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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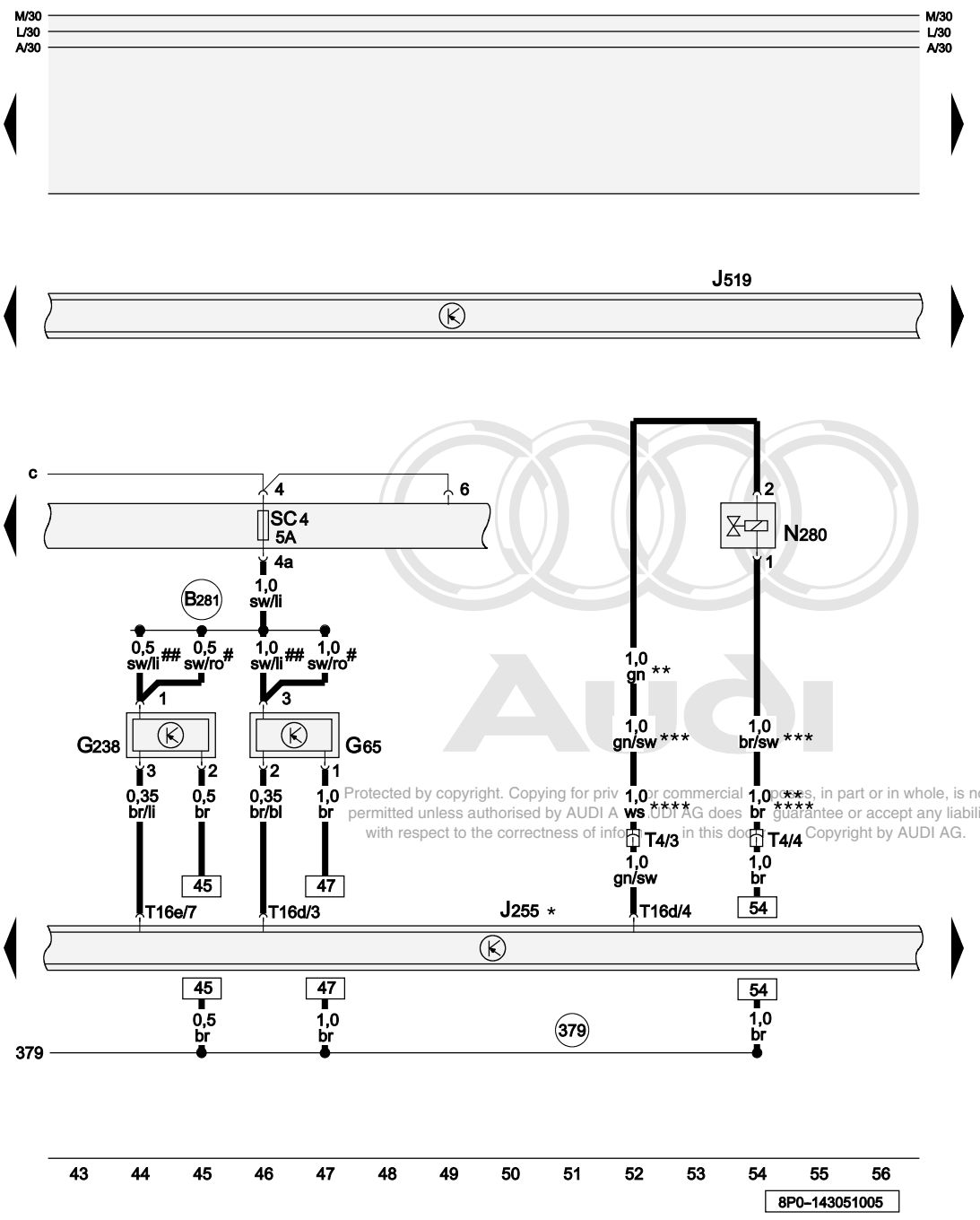


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Terminal 15 voltage supply relay, fuses on fuse holder

J255	Climatronic control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
379	Earth connection 14, in main wiring harness
B273	Positive connection (15), in main wiring harness
*	operating and display unit for air conditioning system/Climatronic
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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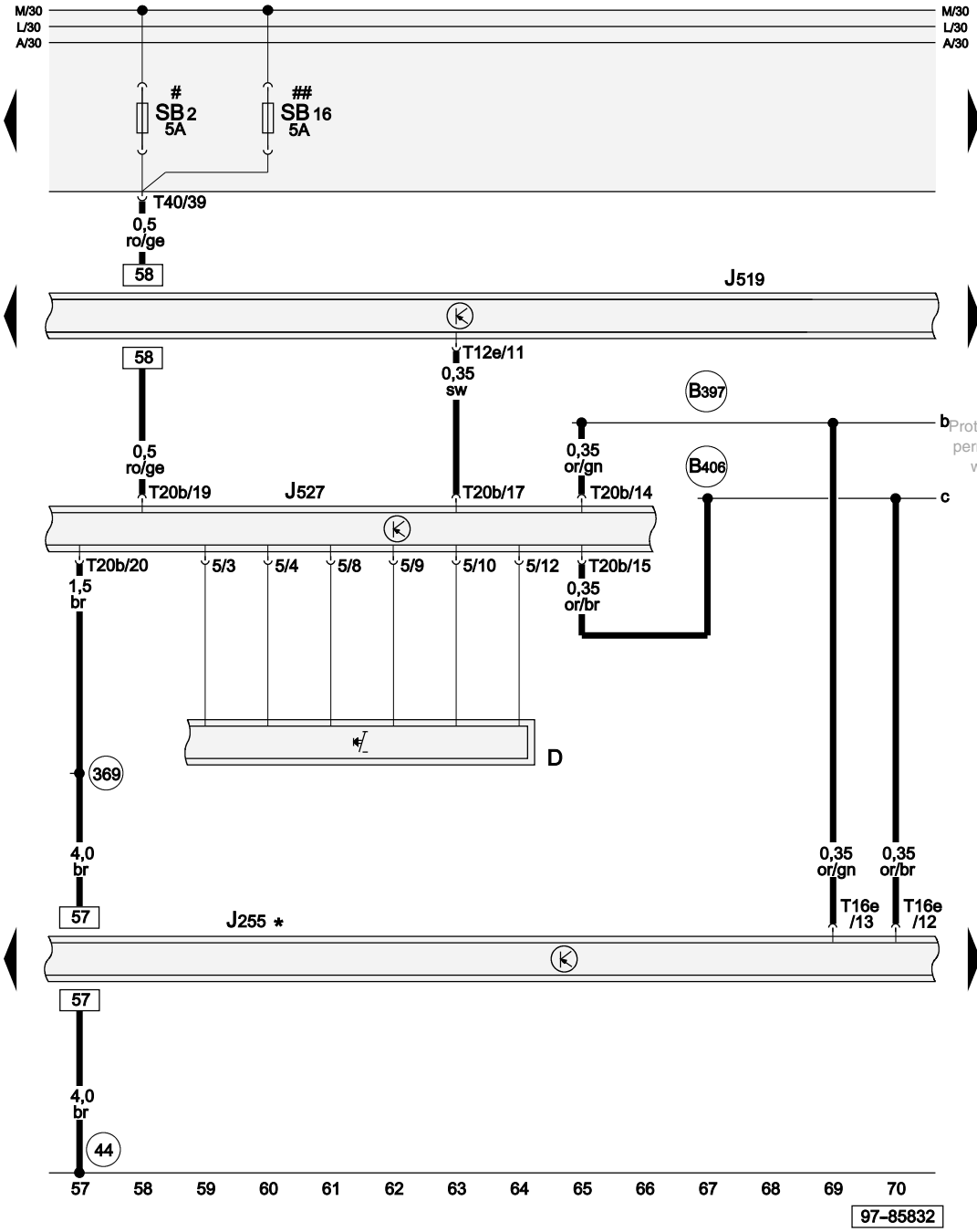


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High pressure sender, air quality sensor, compressor regulating valve, air conditioning system

G65	High pressure sender
G238	Air quality sensor
J255	Climatronic control unit
J519	Onboard supply control unit
N280	Air conditioning system compressor regulating valve
SC4	Fuse 4 on fuse holder C
T4	4-pin connector, black, in front left engine compartment
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
379	Earth connection 14, in main wiring harness
B281	Positive connection 5 (15a), in main wiring harness
*	operating and display unit for air conditioning system/Climatronic
**	for models with engine codes AXX, BPY, BWA only
***	for models with engine codes AZV, BKD, BLR, BLS, BLY, BMJ, BMM, BMN, BUY, BSE, BSF, BUB, BVZ, BVY only
****	for models with engine code BLF only
#	No longer fitted, phased-in modification
##	phased-in modification

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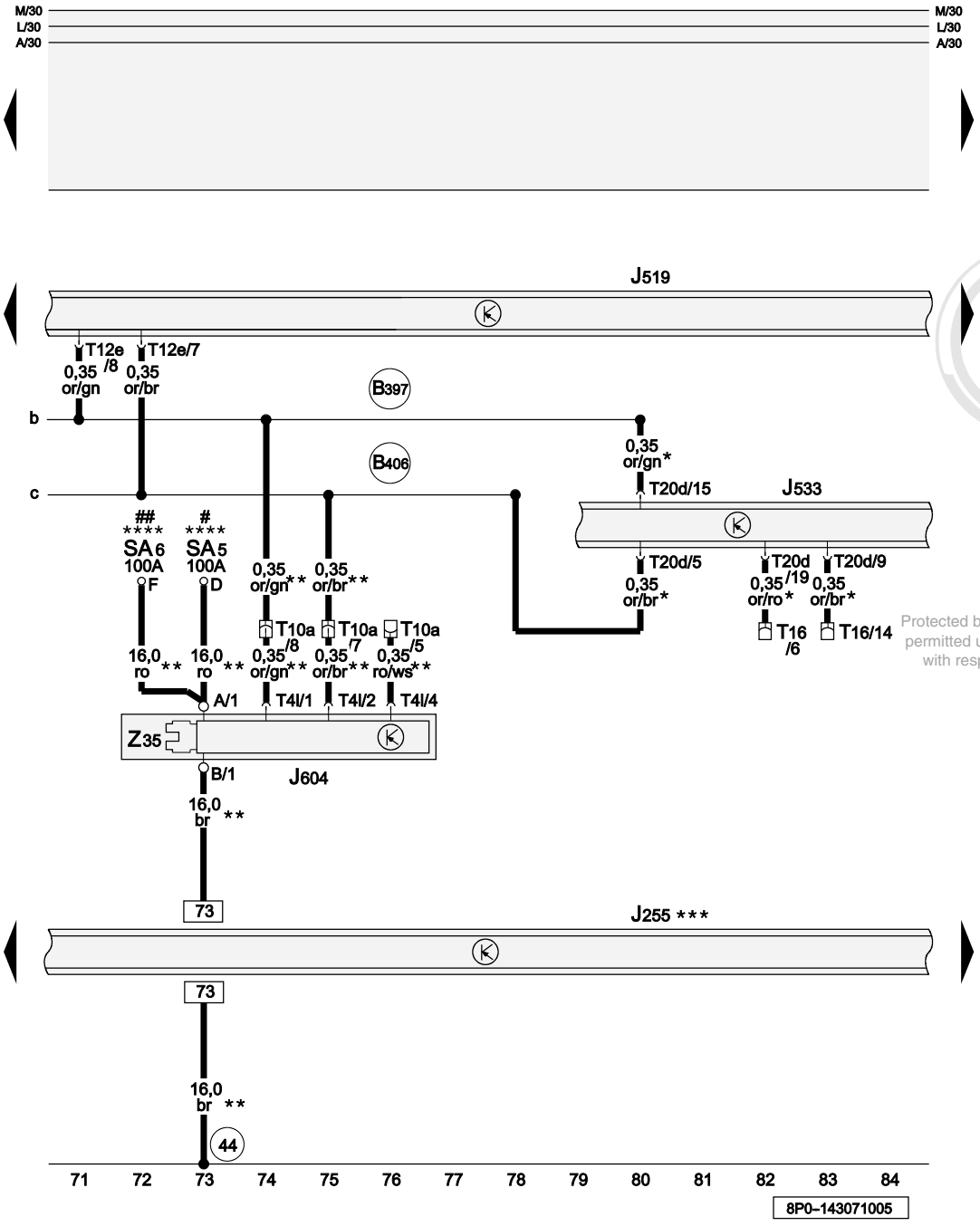


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Ignition/starter switch, convenience CAN bus

D	Ignition/starter switch
J255	Climatronic control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T12e	12-pin connector, black (connector G)
T16e	16-pin connector, brown (connector C)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	operating and display unit for air conditioning system/Climatronic
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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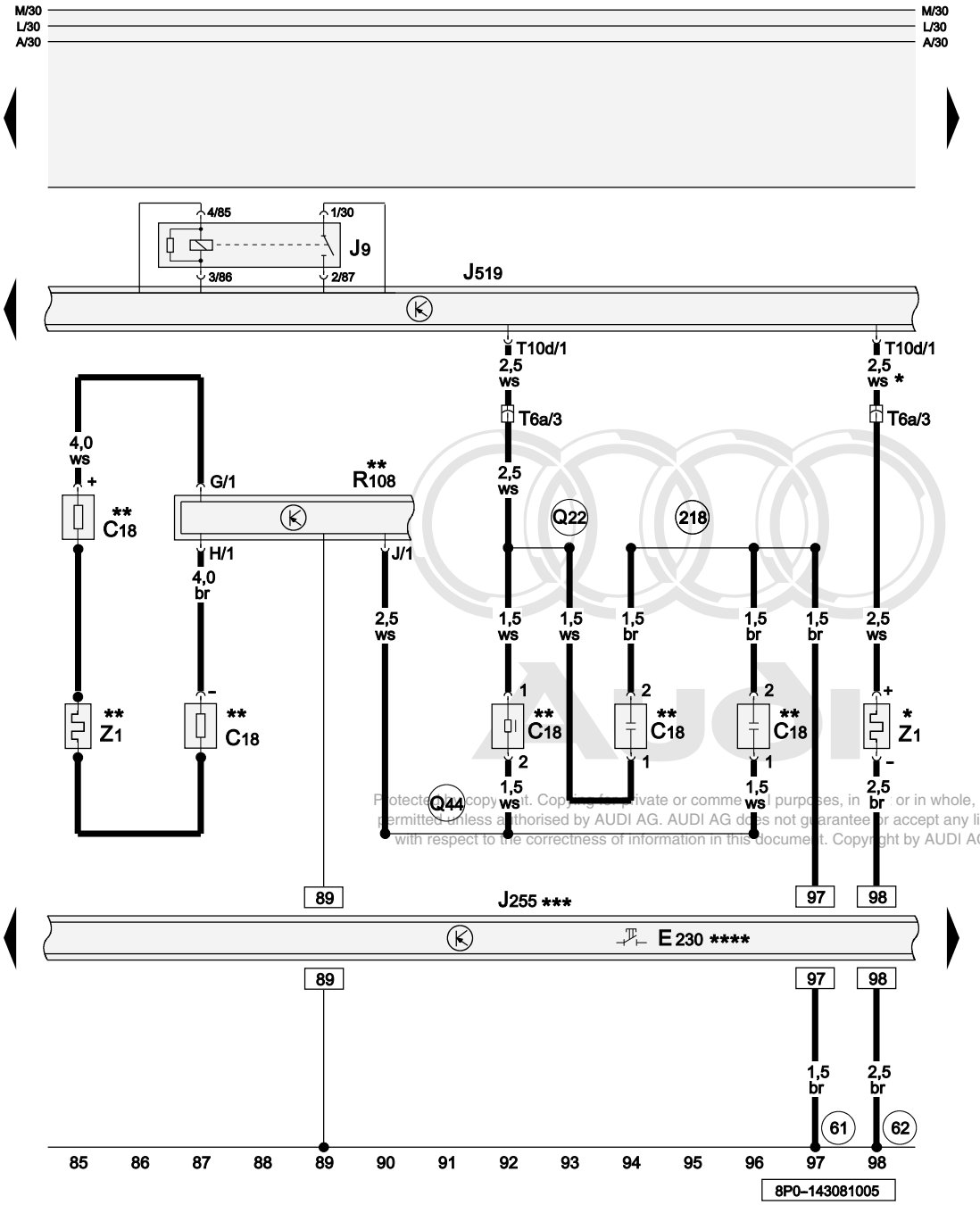


Auxiliary air heater element, axiliary air heater control unit, convenience CAN bus

J255	Climatronic control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J604	Auxiliary air heater control unit
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
T4l	4-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T12e	12-pin connector, black (connector G)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
Z35	Auxiliary heater element
44	Earth point, lower part of left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	⇒ applicable Current Flow Diagram: diagnostic connector
**	for models with auxiliary air heater only
***	operating and display unit for air conditioning system/Climatronic
****	⇒ applicable Current Flow Diagram for models with battery in engine compartment
#	Is dropped from November 2005
##	applicable from November 2005

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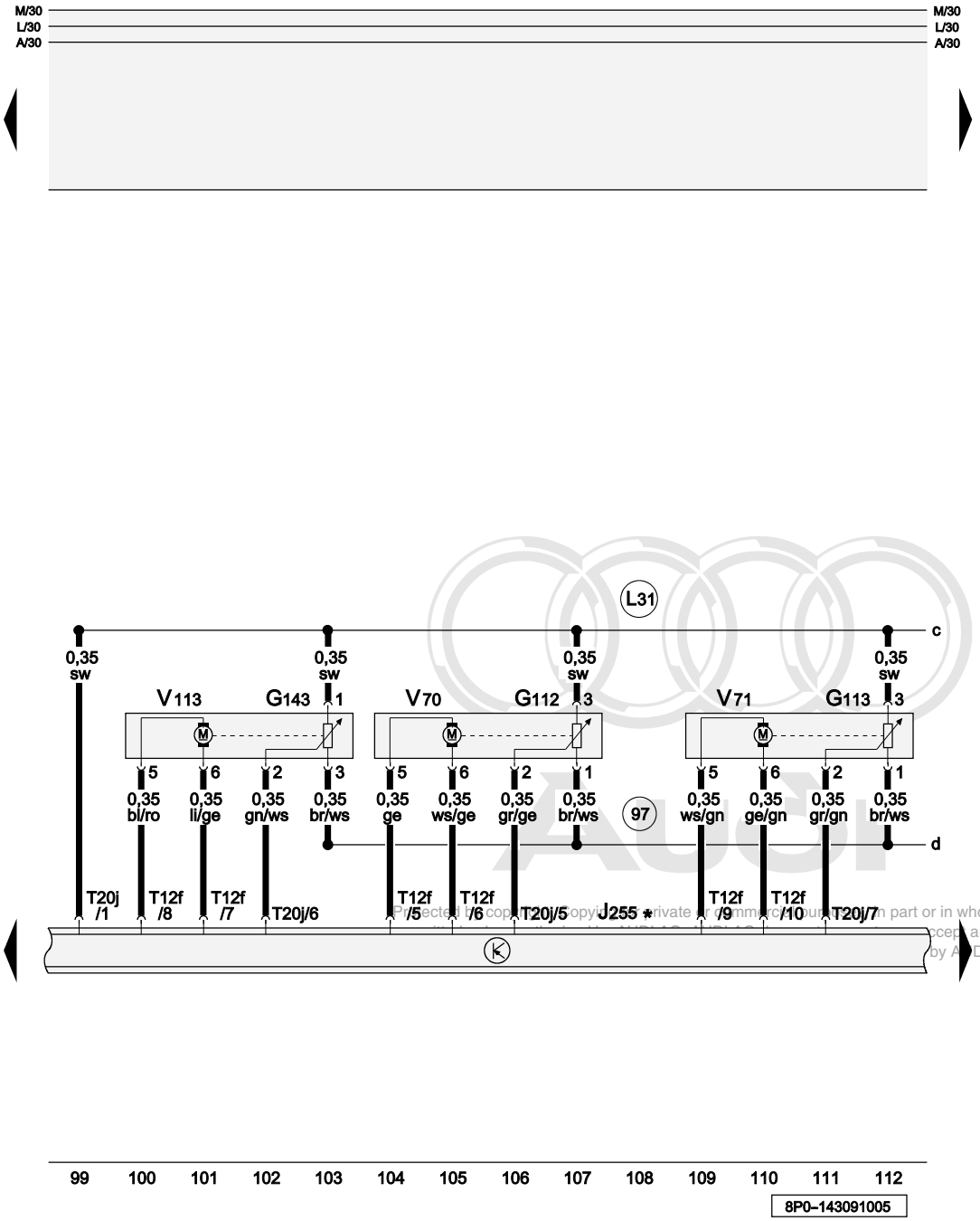


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Heated rear window relay

C18	Window aerial suppression filter
E230	Heated rear window button
J9	Heated rear window relay
J255	Climatronic control unit
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
61	Earth point, left C-pillar
62	Earth point, right C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness
*	for models without radio only
**	for models with radio or radio navigation system only
***	operating and display unit for air conditioning system/Climatronic
****	Operation for Z1 via convenience CAN bus

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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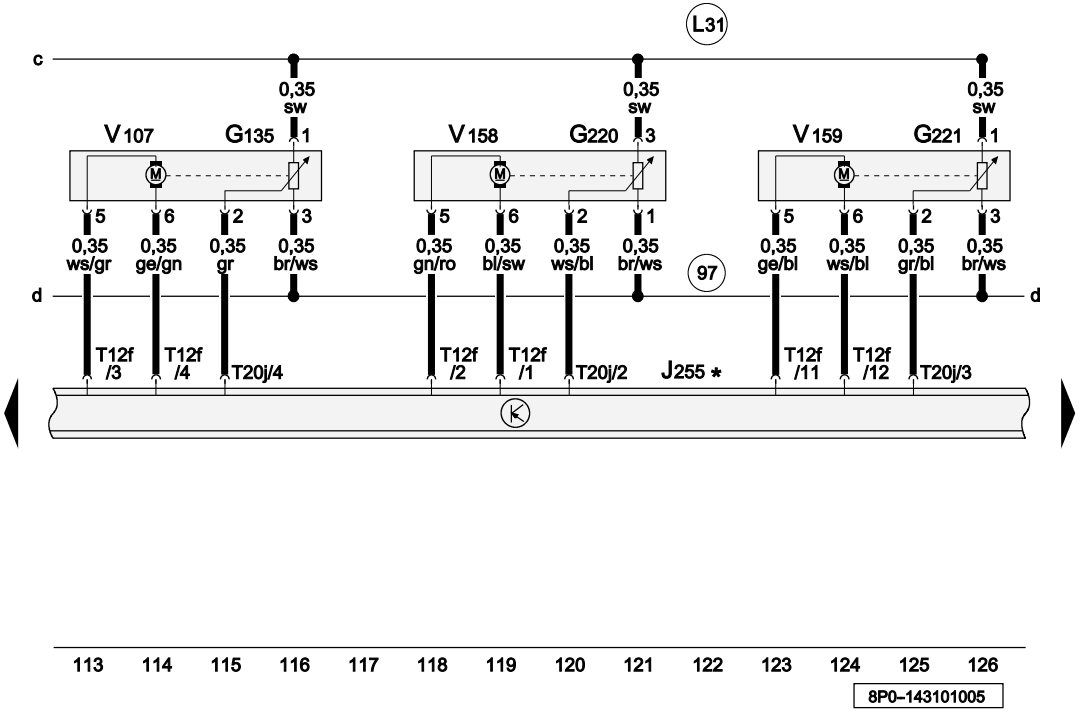
Central flap control motor, air flow flap control motor, air recirculation flap control motor

G112	Central flap control motor potentiometer
G113	Air flow flap control motor potentiometer
G143	Potentiometer for air recirculation flap control motor
J255	Climatronic control unit
T12f	12-pin connector, black (connector A)
T20j	20-pin connector, red (connector B)
V70	Central flap control motor
V71	Air flow flap control motor
V113	Air recirculation flap control motor
(97)	Earth connection 1, in air conditioning system wiring harness
(L31)	Connection (5V), in air conditioning system wiring harness
*	operating and display unit for air conditioning system/Climatronic

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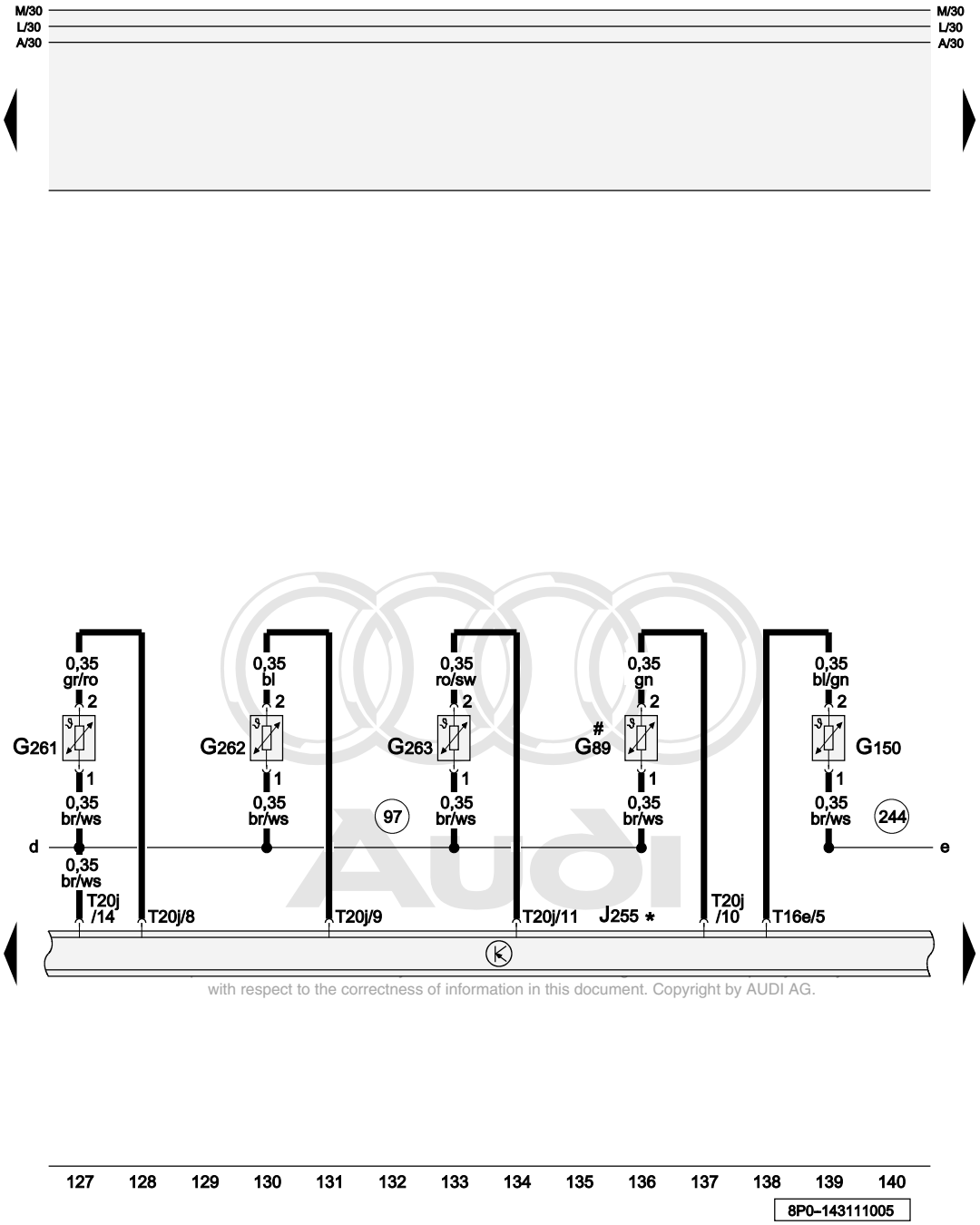
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Control motor potentiometer

G135	Defroster flap control motor potentiometer
G220	Potentiometer for left temperature flap control motor
G221	Potentiometer for right temperature flap control motor
J255	Climatronic control unit
T12f	12-pin connector, black (connector A)
T20j	20-pin connector, red (connector B)
V107	Defroster flap control motor
V158	Left temperature flap control motor
V159	Right temperature flap control motor
(97)	Earth connection 1, in air conditioning system wiring harness
(L31)	Connection (5V), in air conditioning system wiring harness
*	operating and display unit for air conditioning system/Climatronic

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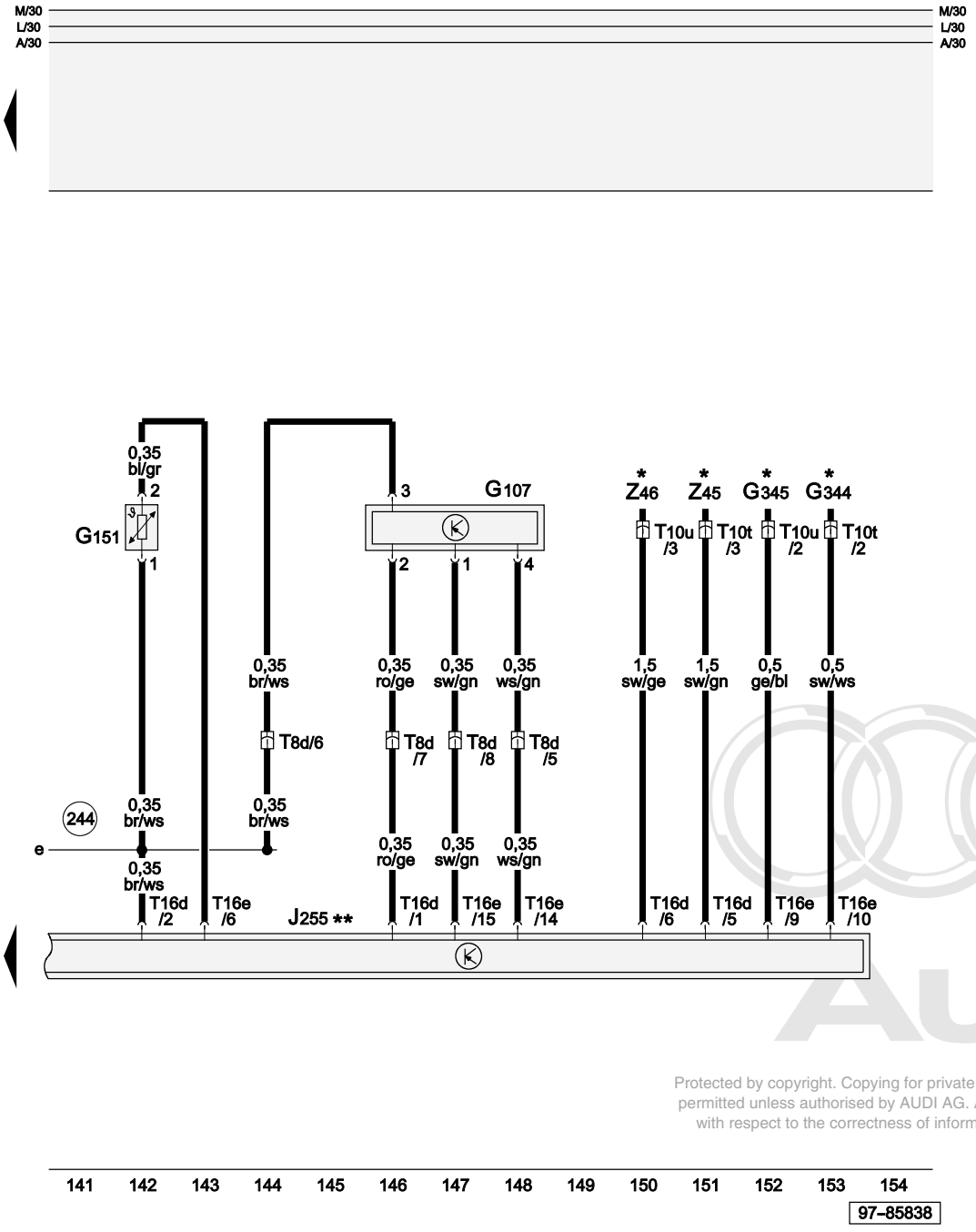


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Fresh air intake duct temperature sensor, vent temperature sender

G89	Fresh air intake duct temperature sensor
G150	Left vent temperature sender
G261	Left footwell vent temperature sender
G262	Right footwell vent temperature sender
G263	Evaporator out-flow temperature sender
J255	Climatronic control unit
T16e	16-pin connector, brown (connector C)
T20j	20-pin connector, red (connector B)
97	Earth connection 1, in air conditioning system wiring harness
244	Earth connection (sender earth), in Climatronic wiring harness
*	operating and display unit for air conditioning system/Climatronic
#	No longer fitted, phased-in modification

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Sunlight penetration photosensor, right vent temperature sender, front seat temperature sender

G107	Sunlight penetration photosensor
G151	Right vent temperature sender
G344	Front left seat temperature sender
G345	Front right seat temperature sender
J255	Climatronic control unit
T8d	8-pin connector, black, behind centre console
T10t	10-pin connector, black, under driver seat
T10u	10-pin connector, black, under front passenger seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z45	Front left seat heating
Z46	Front right seat heating
(244)	Earth connection (sender earth), in Climatronic wiring harness
*	See applicable Current Flow Diagram: seat heating
**	operating and display unit for air conditioning system/Climatronic

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Convenience system

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

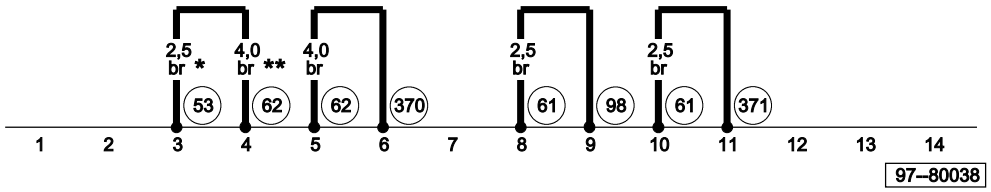
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Earth points, earth connections

53	Earth point, on right in rear lid
61	Earth point, left C-pillar
62	Earth point, right C-pillar
98	Earth connection, in rear lid wiring harness
370	Earth connection 5, in main wiring harness
371	Earth connection 6, in main wiring harness
*	for models without radio only
**	for models with radio only

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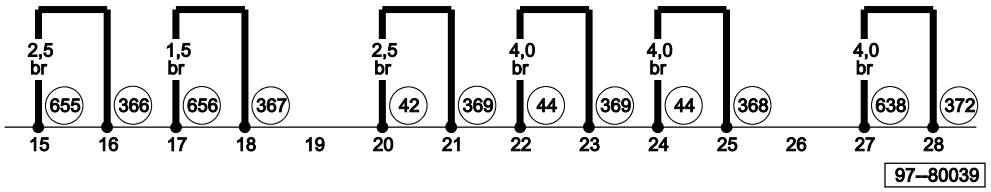
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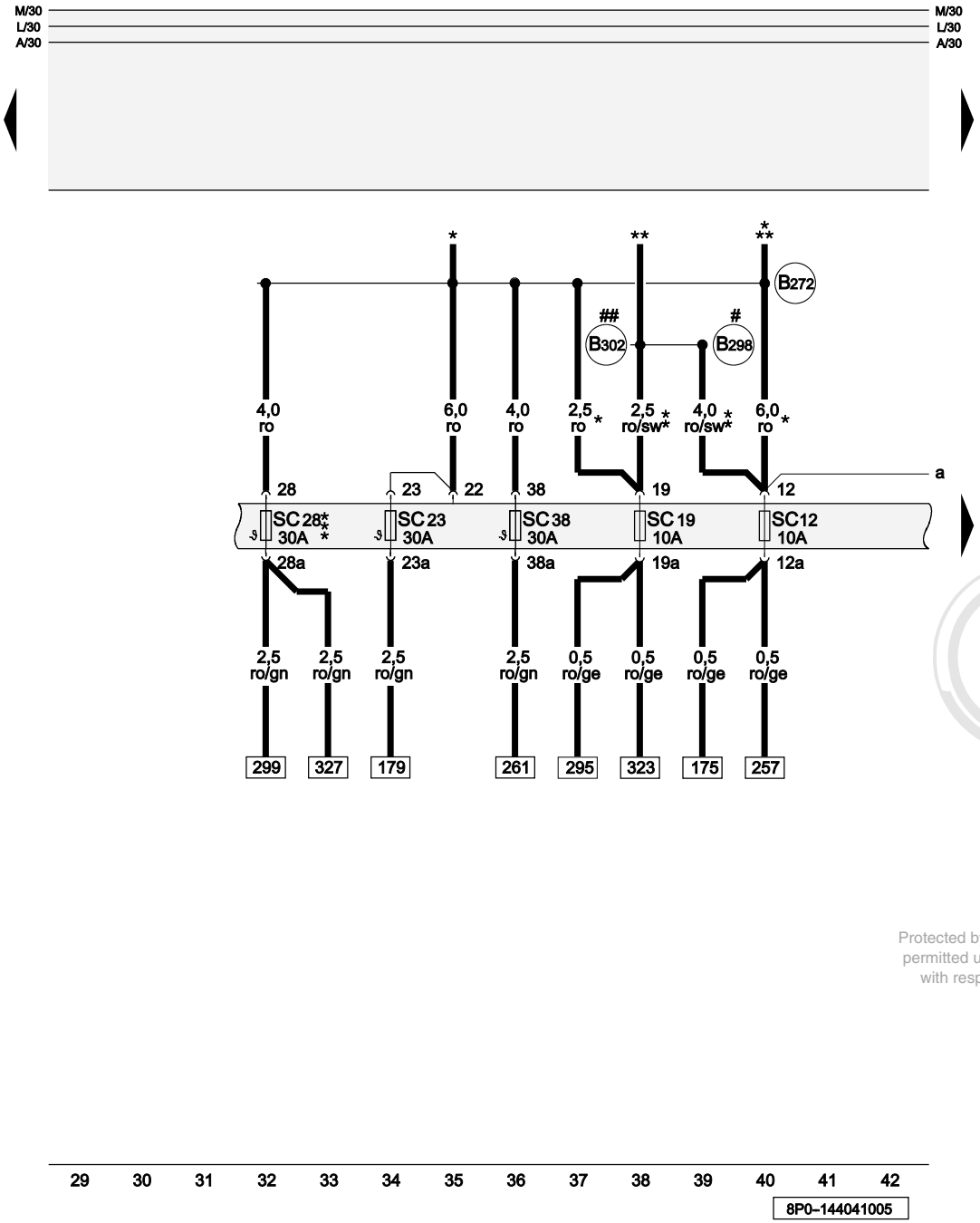
Earth points, earth connections

42	Earth point, next to steering column
44	Earth point, lower part of left A-pillar
366	Earth connection 1, in main wiring harness
367	Earth connection 2, in main wiring harness
368	Earth connection 3, in main wiring harness
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
655	Earth point, on left headlight
656	Earth point, on right headlight

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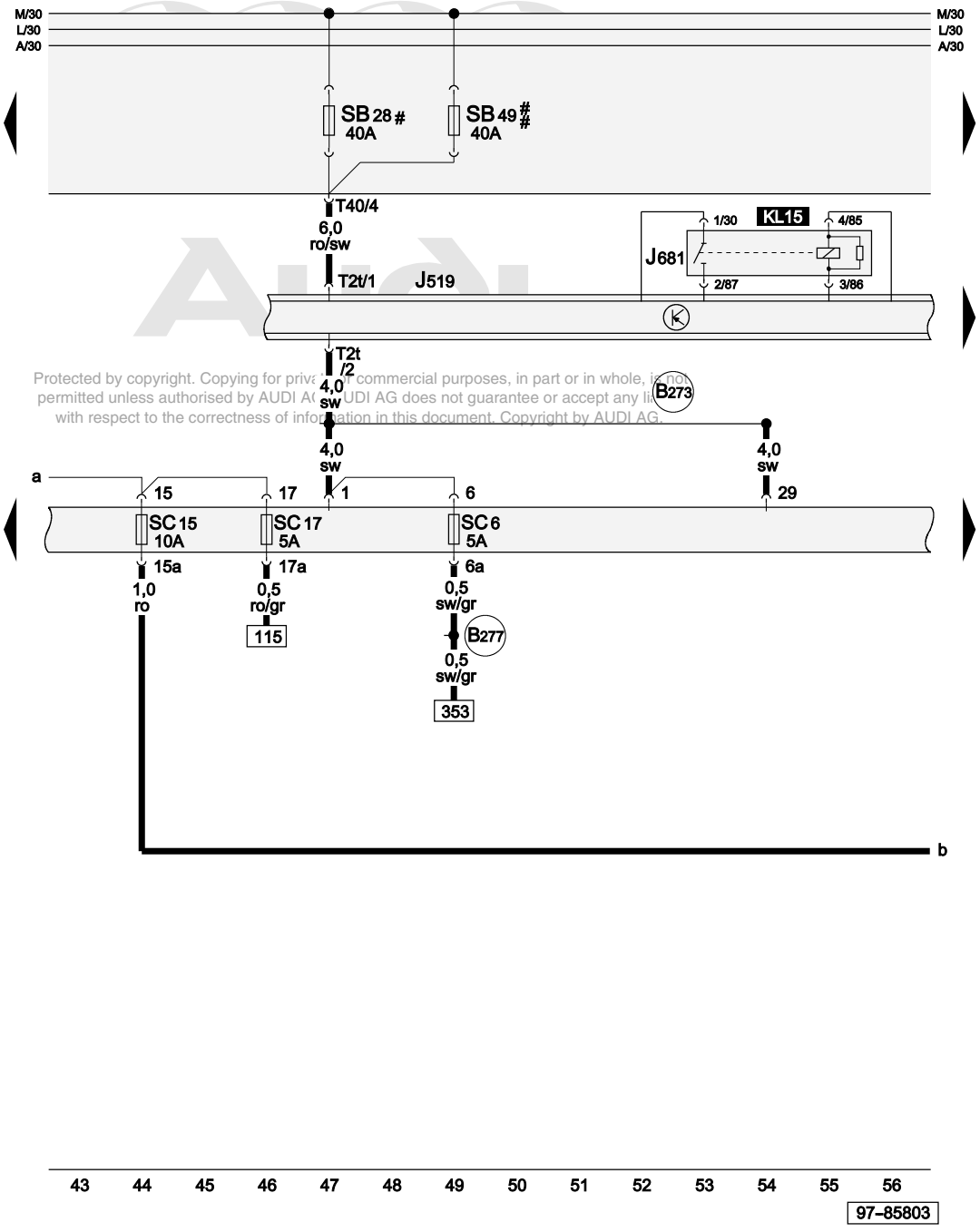


Fuses on fuse holder

SC12	Fuse 12 on fuse holder C
SC19	Fuse 19 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC28	Fuse 28 on fuse holder C
SC38	Fuse 38 on fuse holder C
B272	Positive connection (30), in main wiring harness
B298	Positive connection 2 (30), in main wiring harness
B302	Positive connection 6 (30), in main wiring harness
*	⇒ applicable Current Flow Diagram with battery in engine compartment
**	⇒ applicable Current Flow Diagram with battery in luggage compartment
***	for models with 5-door models only
#	is dropped from November 2005
##	applicable from November 2005

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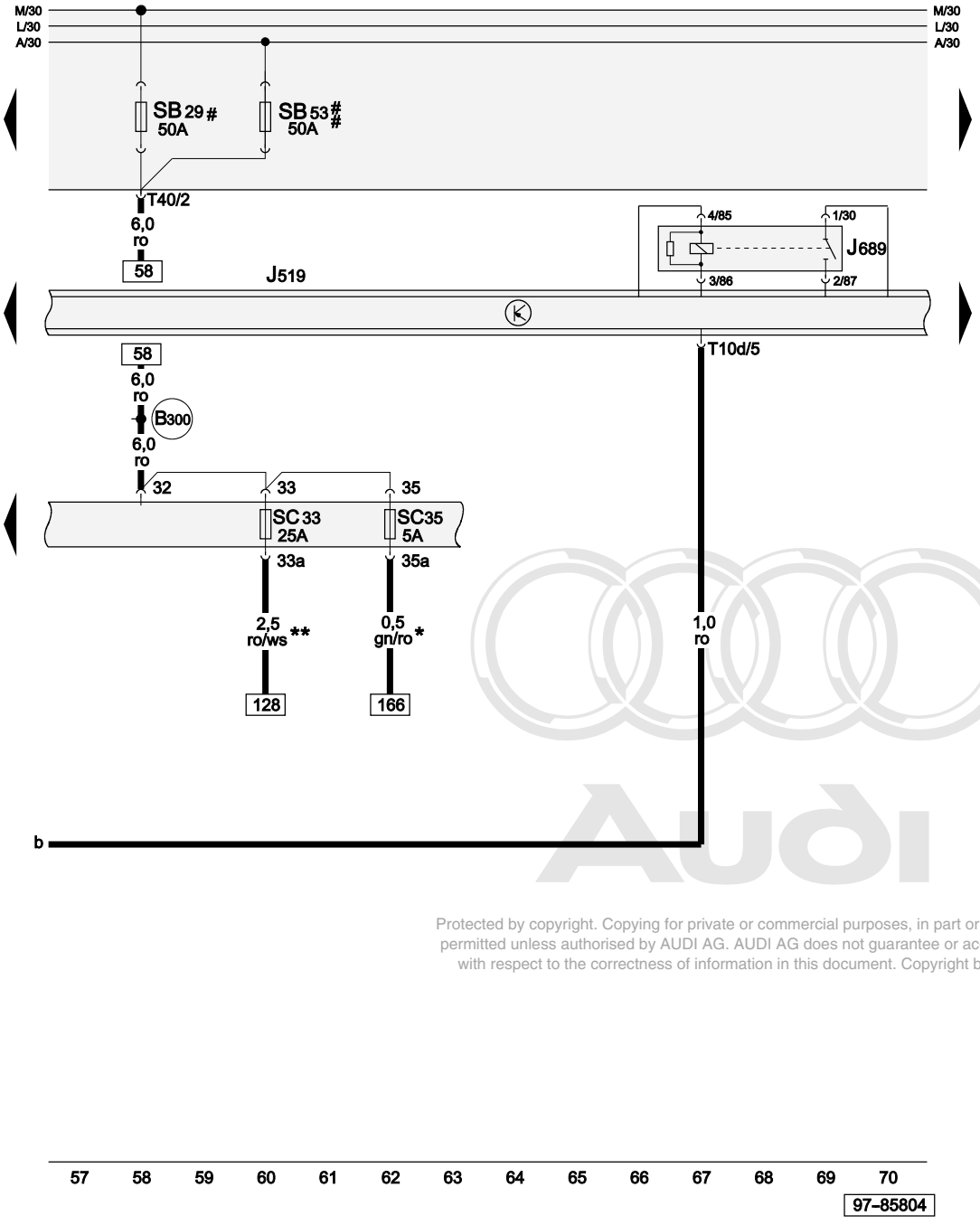


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Fuses on fuse holder, terminal 15 voltage supply relay 2

J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC6	Fuse 6 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC17	Fuse 17 on fuse holder C
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
B277	Positive connection 1 (15a), in main wiring harness
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

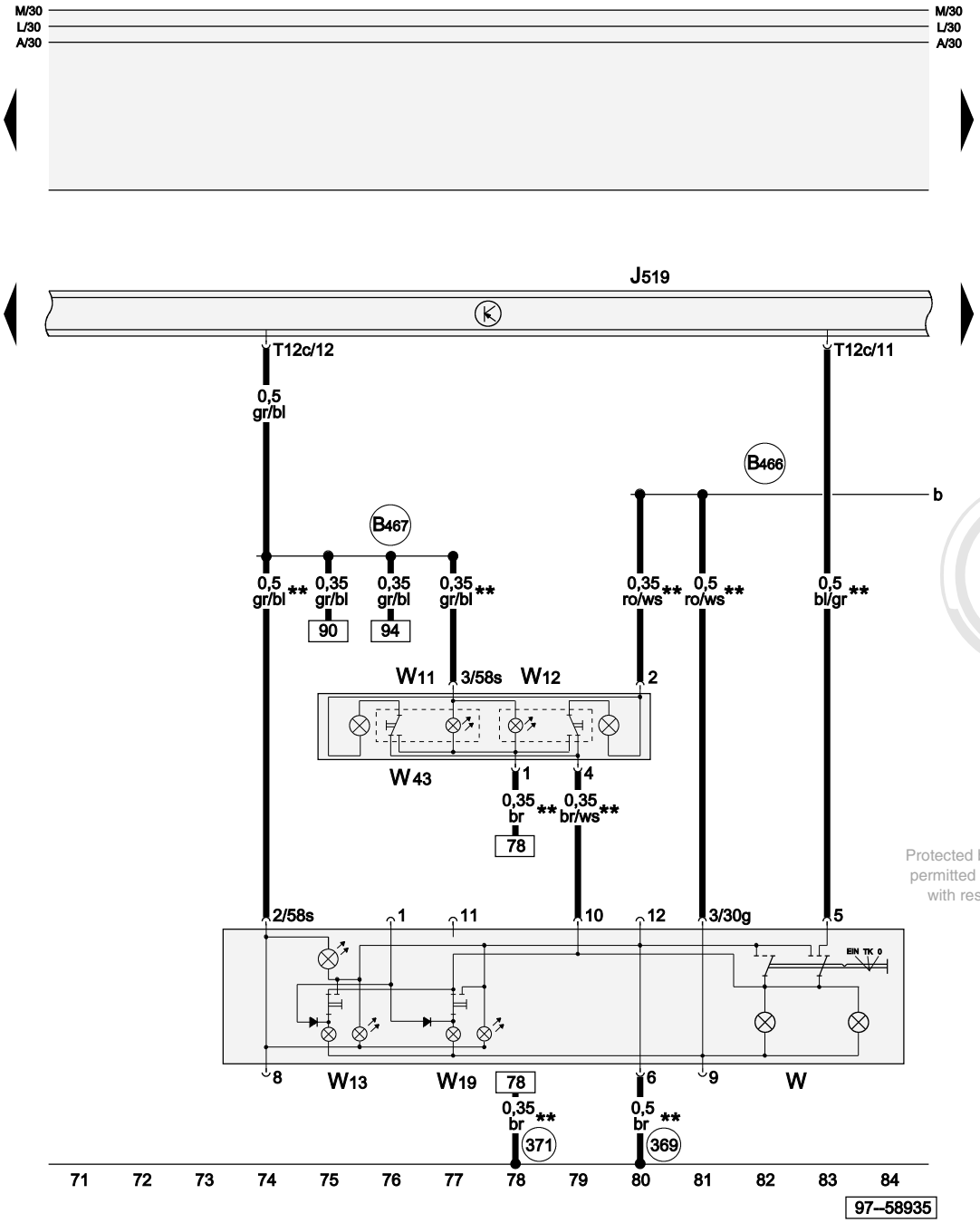


Terminal 30 voltage supply relay 2

J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC33	Fuse 33 on fuse holder C
SC35	Fuse 35 on fuse holder C
T10d	10-pin connector, black (connector K)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B300	Positive connection 4 (30), in main wiring harness
*	for models with anti-theft alarm system only
**	⇒ applicable Current Flow Diagram: sliding/tilting sunroof
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

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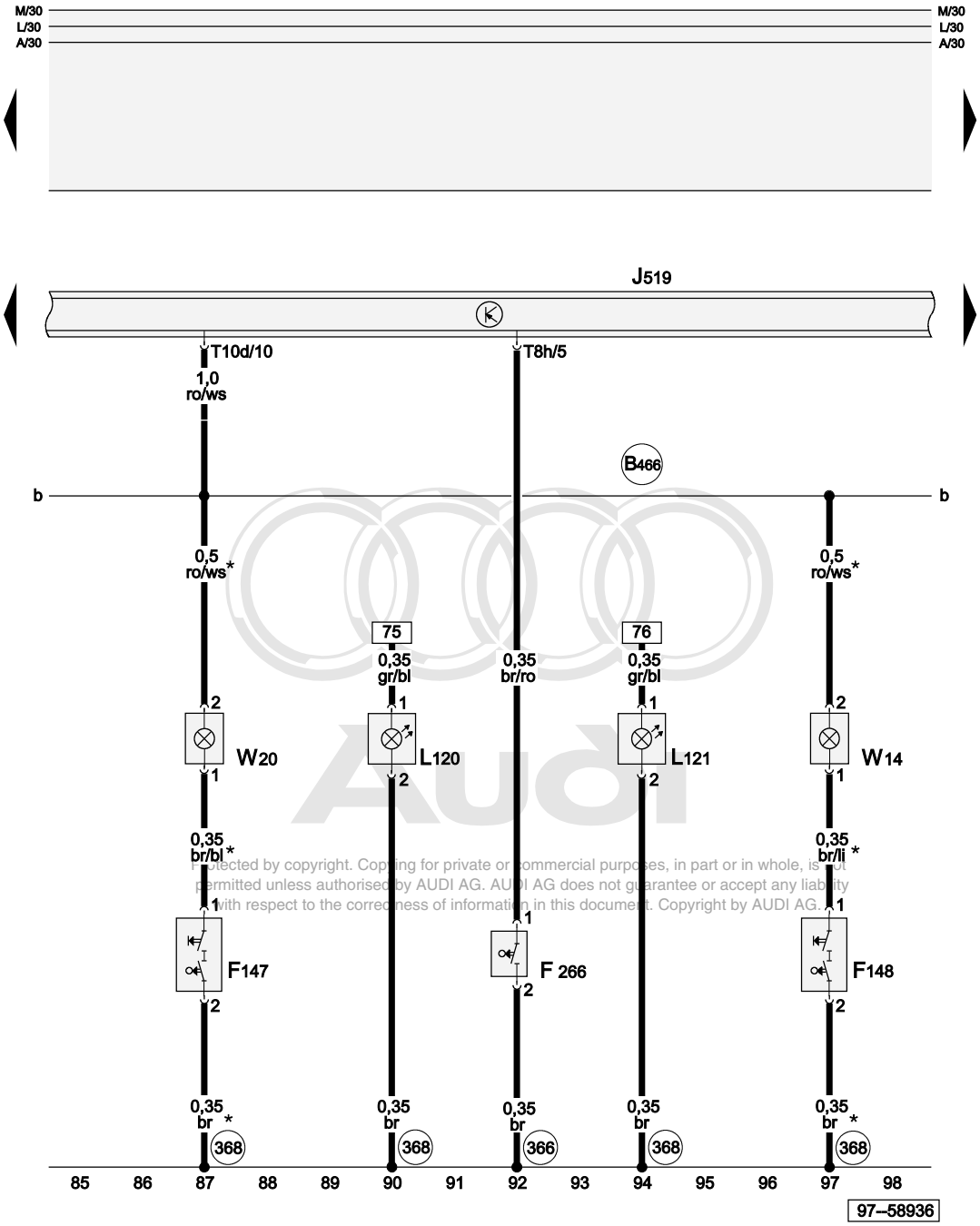


Interior light (front and rear) with reading lights

J519	Onboard supply control unit
T12c	12-pin connector, black (connector B)
W	Front interior light
W11	Rear left reading light
W12	Rear right reading light
W13	Front passenger side reading light
W19	Driver side reading light
W43	Rear interior light
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
B466	Connection 2 in main wiring harness
B467	Connection 3 in main wiring harness
**	for models with reading lights only

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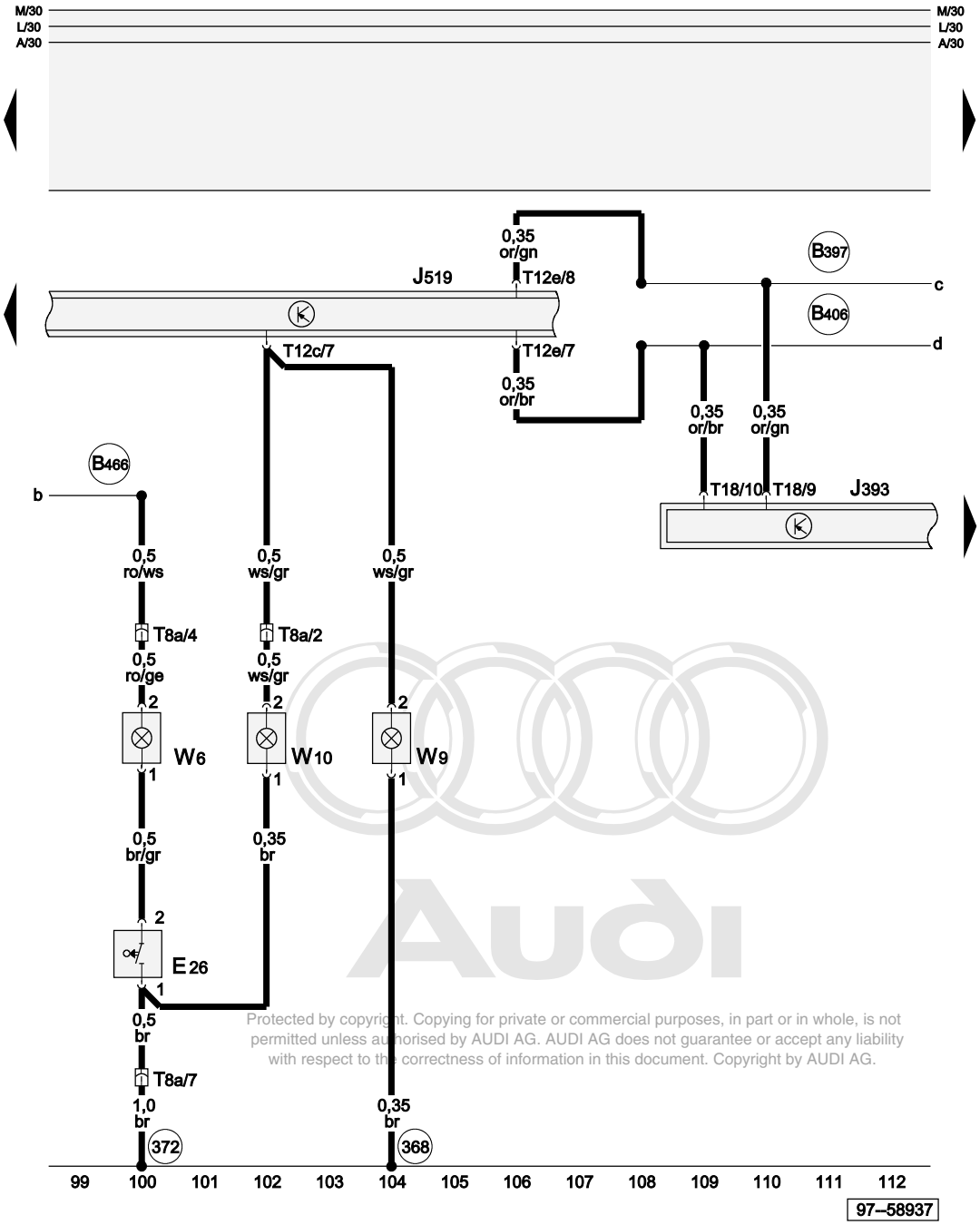


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rs = pink

Bonnet contact switch, driver and front passenger vanity mirror contact switch

F147	Driver vanity mirror contact switch
F148	Front passenger side vanity mirror contact switch
F266	Bonnet contact switch
J519	Onboard supply control unit
L120	Storage compartment illumination bulb
L121	Cup holder illumination bulb
T8h	8-pin connector, black (connector F)
T10d	10-pin connector, black (connector K)
W14	Front passenger side illuminated vanity mirror
W20	Driver side illuminated vanity mirror
366	Earth connection 1, in main wiring harness
368	Earth connection 3, in main wiring harness
B466	Connection 2 in main wiring harness
*	for models with illuminated vanity mirror without garage door operation only

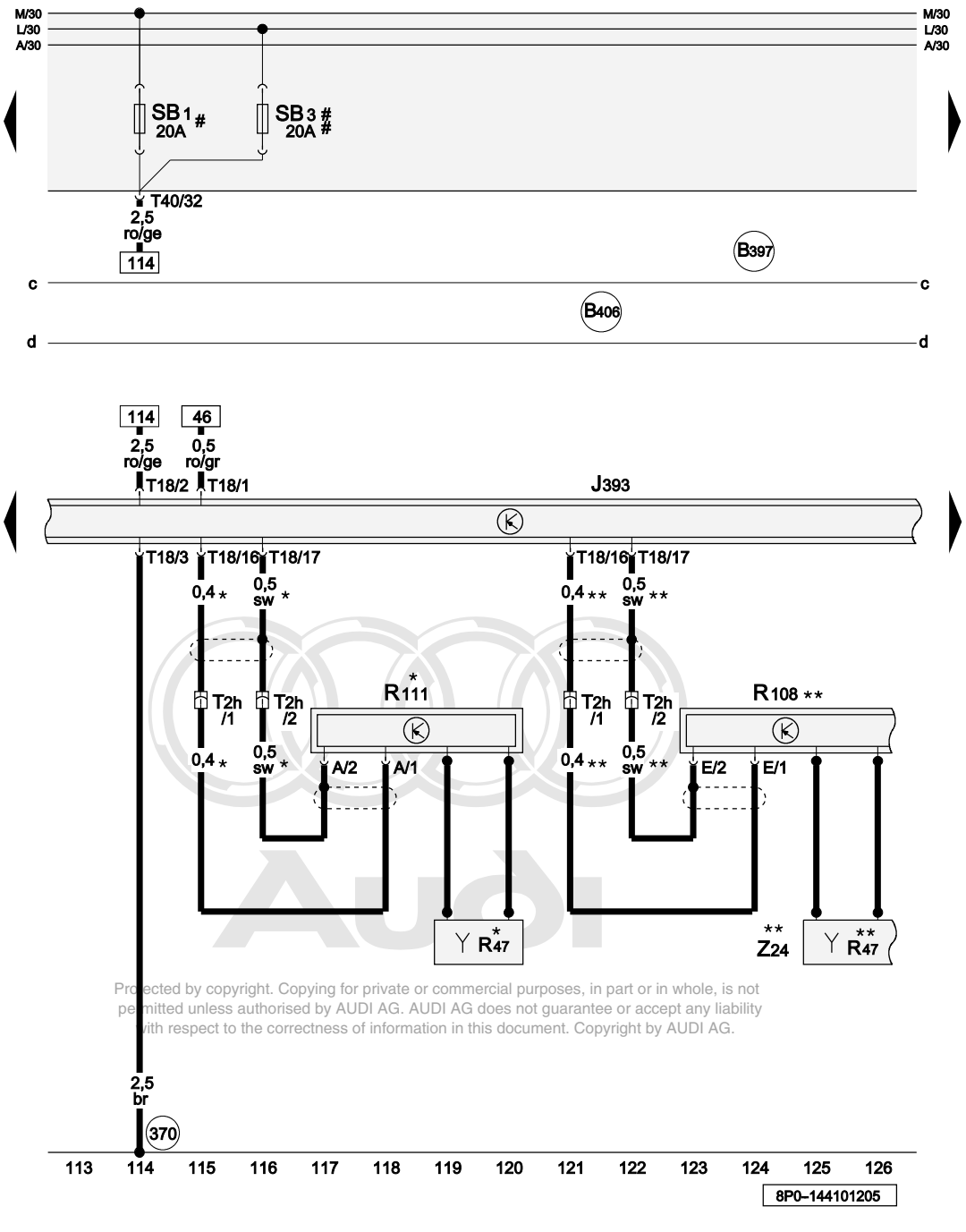


Left and right footwell light, glove compartment light

E26	Glove compartment light switch
J393	Convenience system central control unit
J519	Onboard supply control unit
T8a	8-connector, black, near glove compartment
T12c	12-pin connector, black (connector B)
T12e	12-pin connector, black (connector G)
T18	18-pin connector, brown (connector A)
W6	Glove compartment light
W9	Left footwell light
W10	Right footwell light
368	Earth connection 3, in main wiring harness
372	Earth connection 7, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B466	Connection 2 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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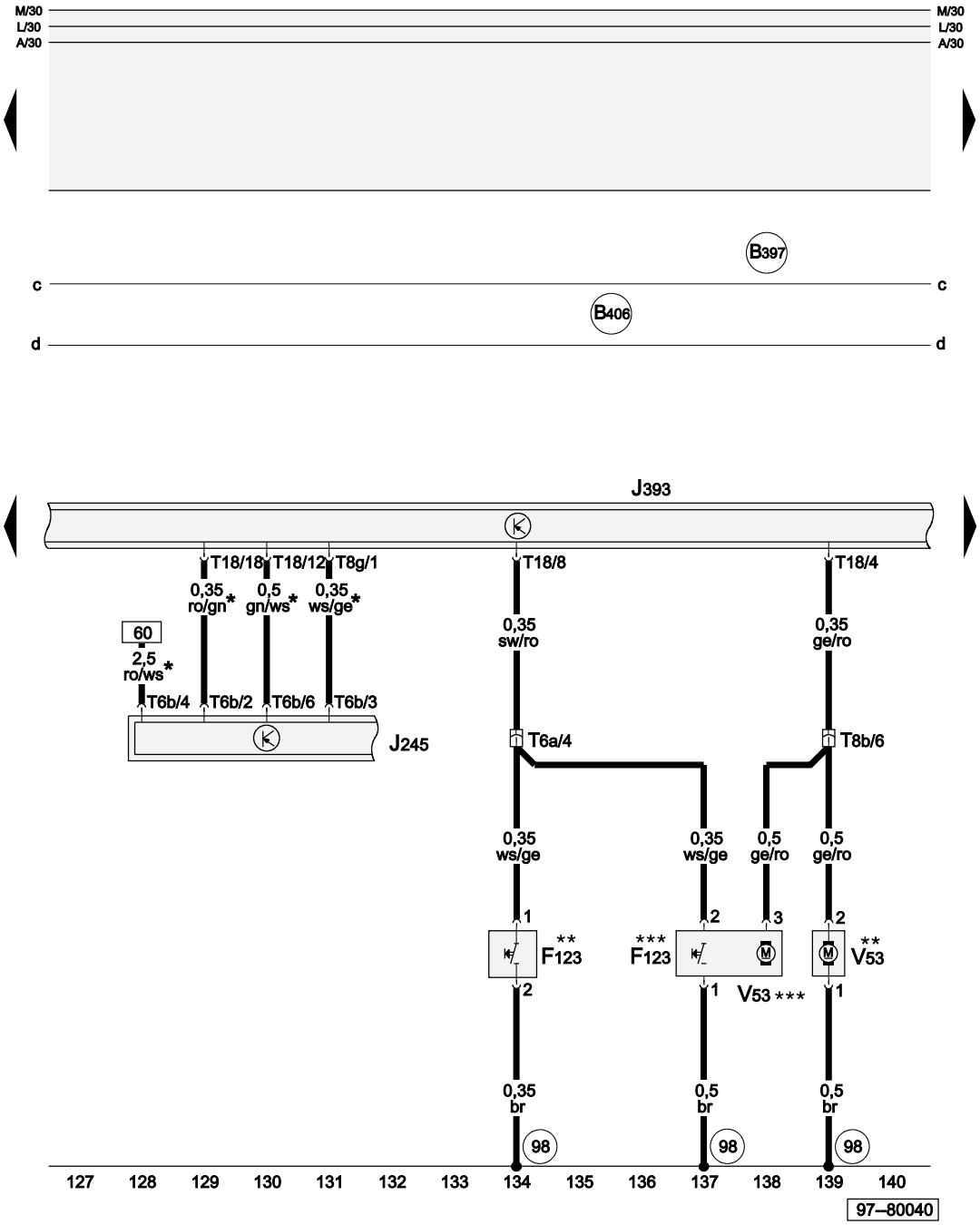


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Central locking and anti-theft alarm system aerial

J393	Convenience system central control unit
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R111	Aerial amplifier 2
SB1	Fuse 1 on fuse holder B
SB3	Fuse 3 on fuse holder B
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
Z24	Heated rear window with window aerial
370	Earth connection 5, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	not for models with radio or radio navigation system
**	for models with radio or radio navigation system only
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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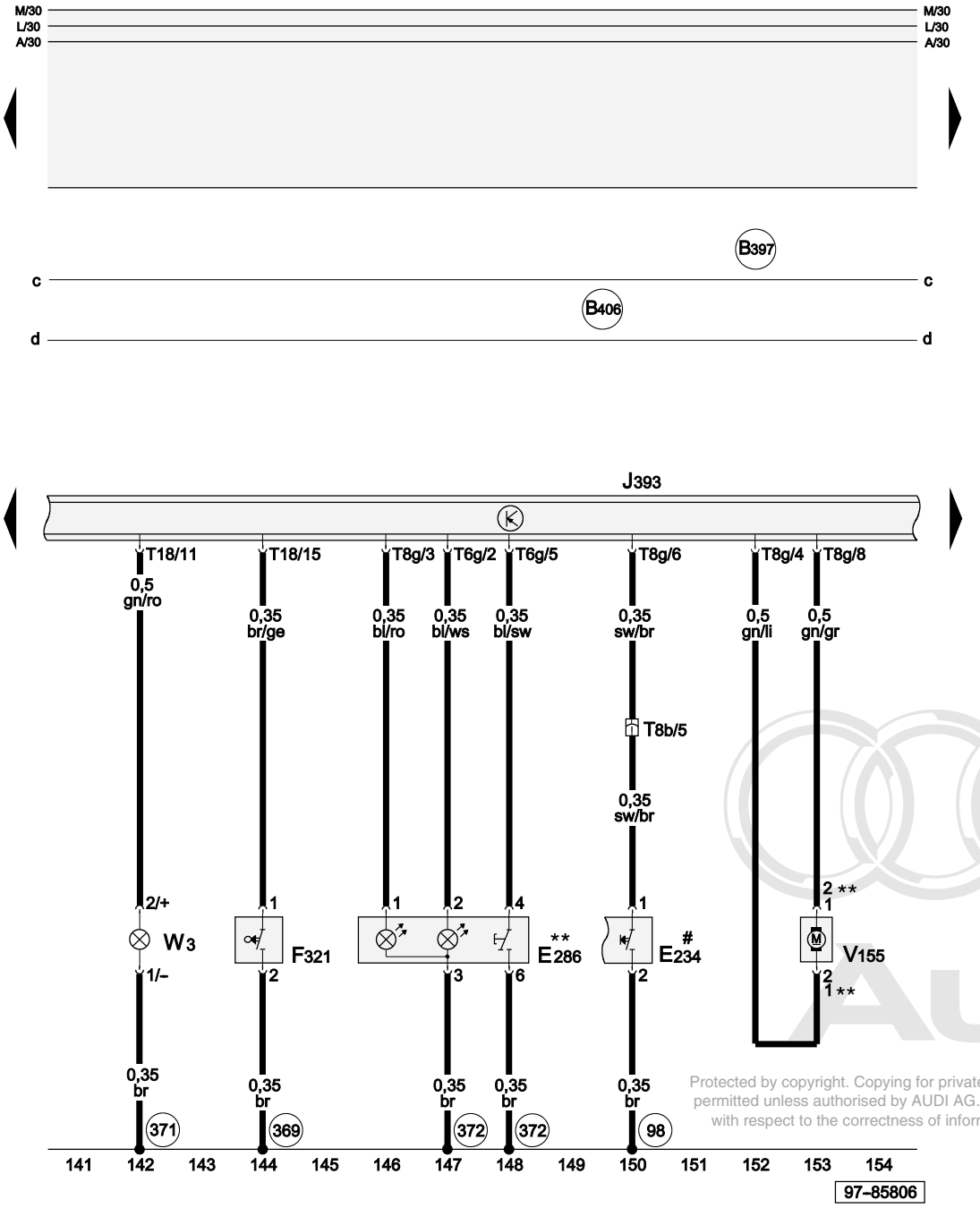


Rear lid central locking motor

F123	Rear lid contact switch for anti-theft alarm system
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
T6a	6-pin connector, black, on left C-pillar
T6b	6-pin connector, blue, sunroof, near interior light
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T18	18-pin connector, brown (connector A)
V53	Rear lid central locking motor
98	Earth connection, in rear lid wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	⇒ applicable Current Flow Diagram: sliding/tilting sunroof
**	for models with 3-door models only
***	for models with 5-door models only

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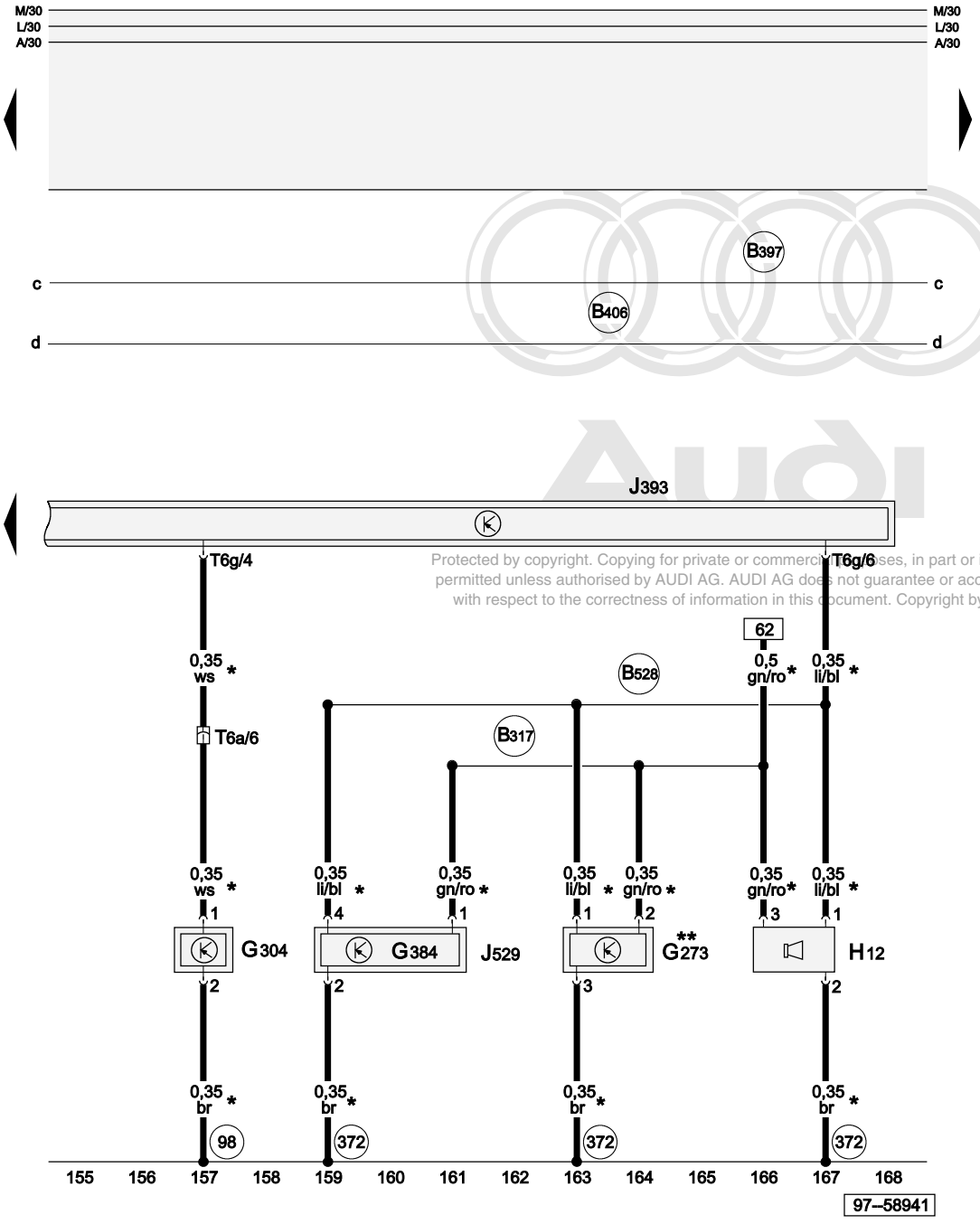


Parking brake contact switch, tank filler flap locking motor, luggage compartment light

E234	Rear lid handle release button
E286	Rear central switch for interior locking
F321	Parking brake contact switch
J393	Convenience system central control unit
T6g	6-pin connector, black (connector E)
T8b	8-pin connector, brown, on left C-pillar
T8g	8-pin connector, black (connector B)
T18	18-pin connector, brown (connector A)
V155	Tank filler flap locking motor
W3	Luggage compartment light
98	Earth connection, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
371	Earth connection 6, in main wiring harness
372	Earth connection 7, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	F248 is replaced by E234
**	For USA only

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sw	=	black
ro	=	red
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gn	=	green
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or	=	orange
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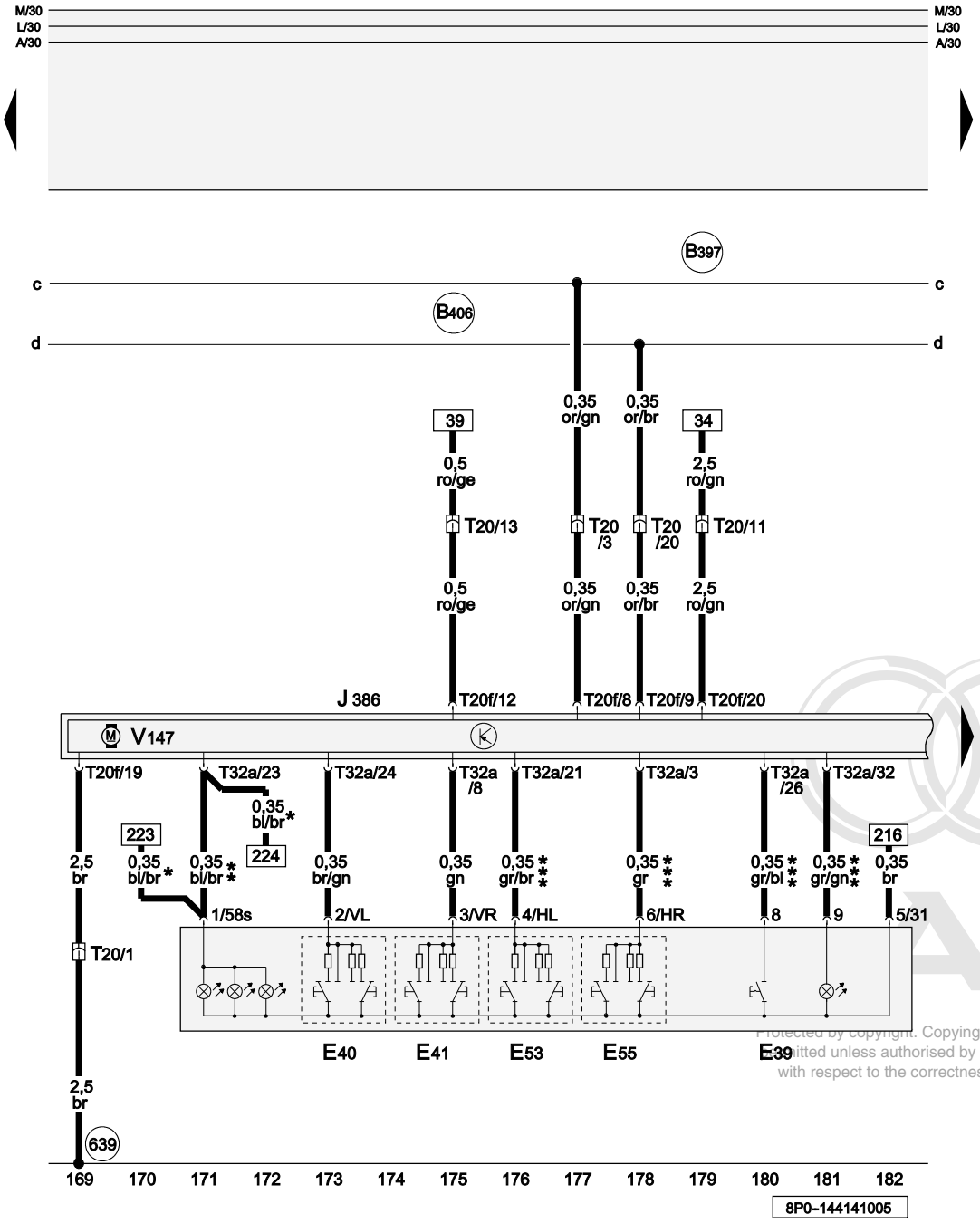


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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Alarm horn, vehicle inclination sender, glass breakage sensor for rear window, interior monitoring sensor

G273	Interior monitoring sensor
G304	Glass breakage sensor for rear window
G384	Vehicle inclination sender
H12	Alarm horn
J393	Convenience system central control unit
J529	Anti-theft and tilt system control unit
T6a	6-pin connector, black, on left C-pillar
T6g	6-pin connector, black (connector E)
98	Earth connection, in rear lid wiring harness
372	Earth connection 7, in main wiring harness
B317	Positive connection 3 (30a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B528	Connection 1 (LIN bus), in main wiring harness
*	for models with anti-theft alarm system only
**	for models with interior monitoring sensor only

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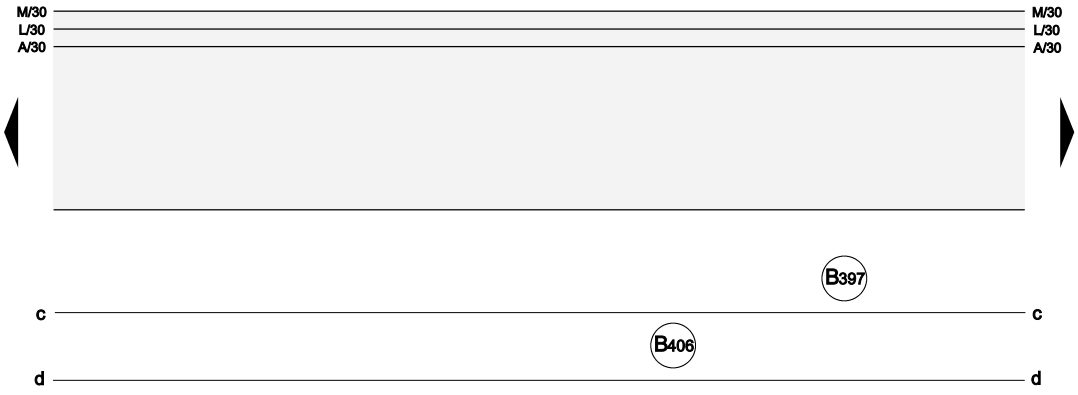


Window regulator switch, driver side

E39	Rear window regulator isolation switch
E40	Front left window regulator switch
E41	Front right window regulator switch
E53	Rear left window regulator switch, in driver door
E55	Rear right window regulator switch, in driver door
J386	Driver door control unit
T20	20-pin connector, black, door A-pillar left
T20f	20-pin connector, black (connector A)
T32a	32-pin connector, grey (connector C)
V147	Driver side window regulator motor
639	Earth point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with interior monitor only
**	for models without interior monitor only
***	for models with 5-door models only

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sw	=	black
ro	=	red
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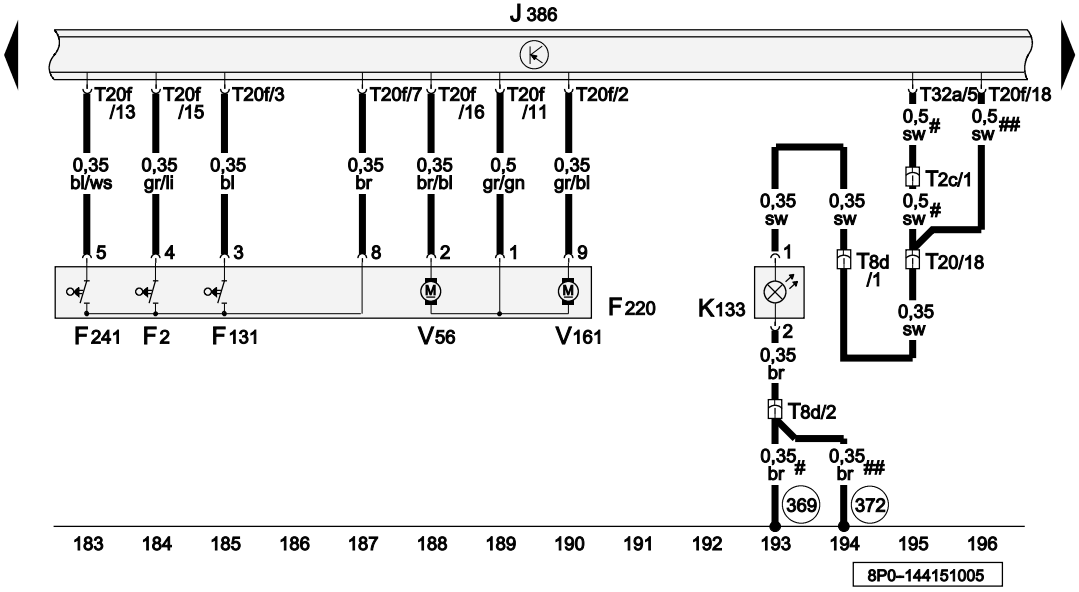
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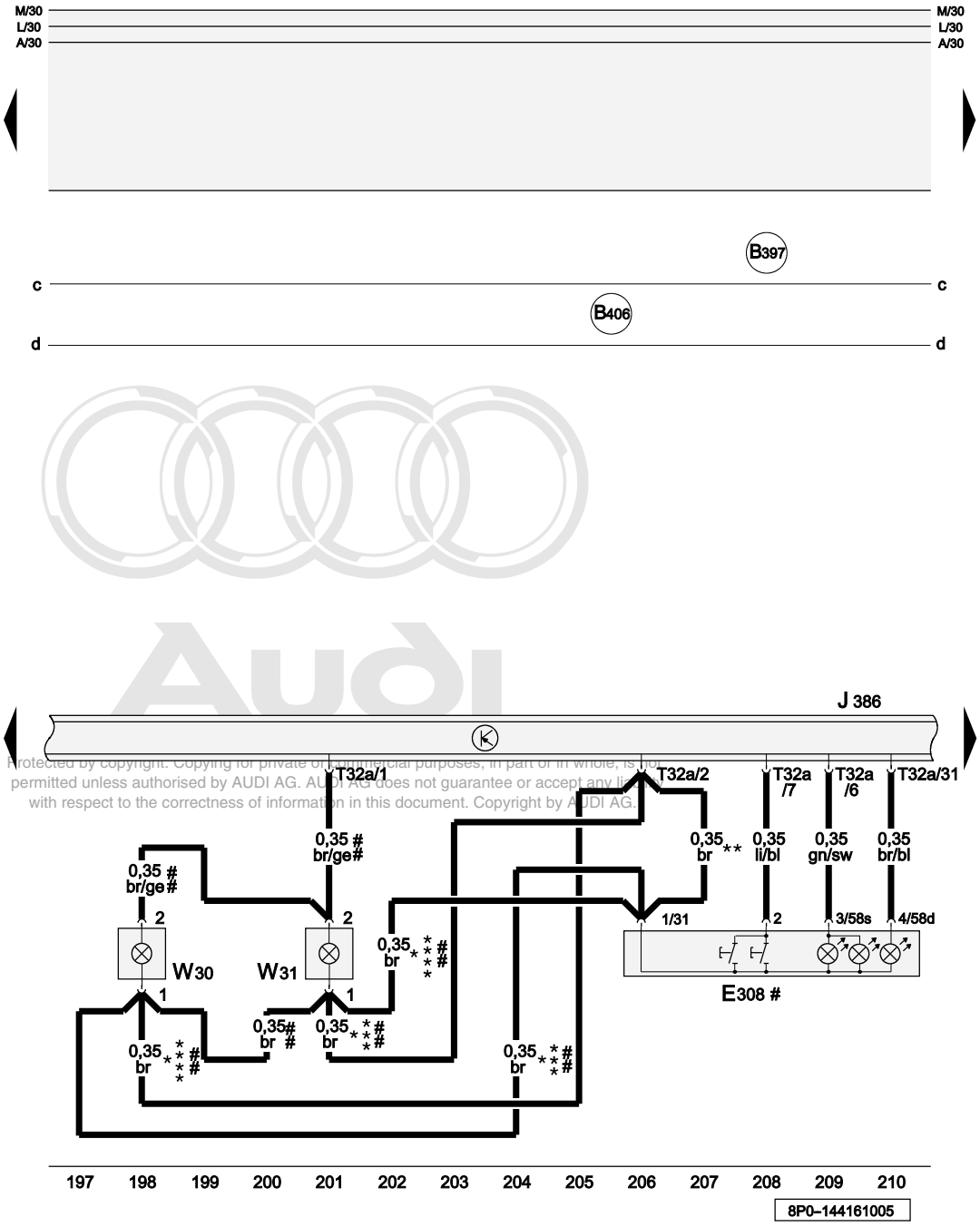
Driver side central locking lock unit, central locking deadlock function warning lamp

F2	Driver door contact switch
F131	Front left central locking actuator
F220	Driver side central locking lock unit
F241	Driver side contact switch in lock cylinder
J386	Driver door control unit
K133	Central locking deadlock function warning lamp
T2c	2-pin connector, black, behind door trim driver door
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20f	20-pin connector, black (connector A)
T32a	32-pin connector, grey (connector C)
V56	Driver door central locking motor
V161	Driver door central locking deadlock function motor
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	is dropped from July 2005
##	applicable from July 2005

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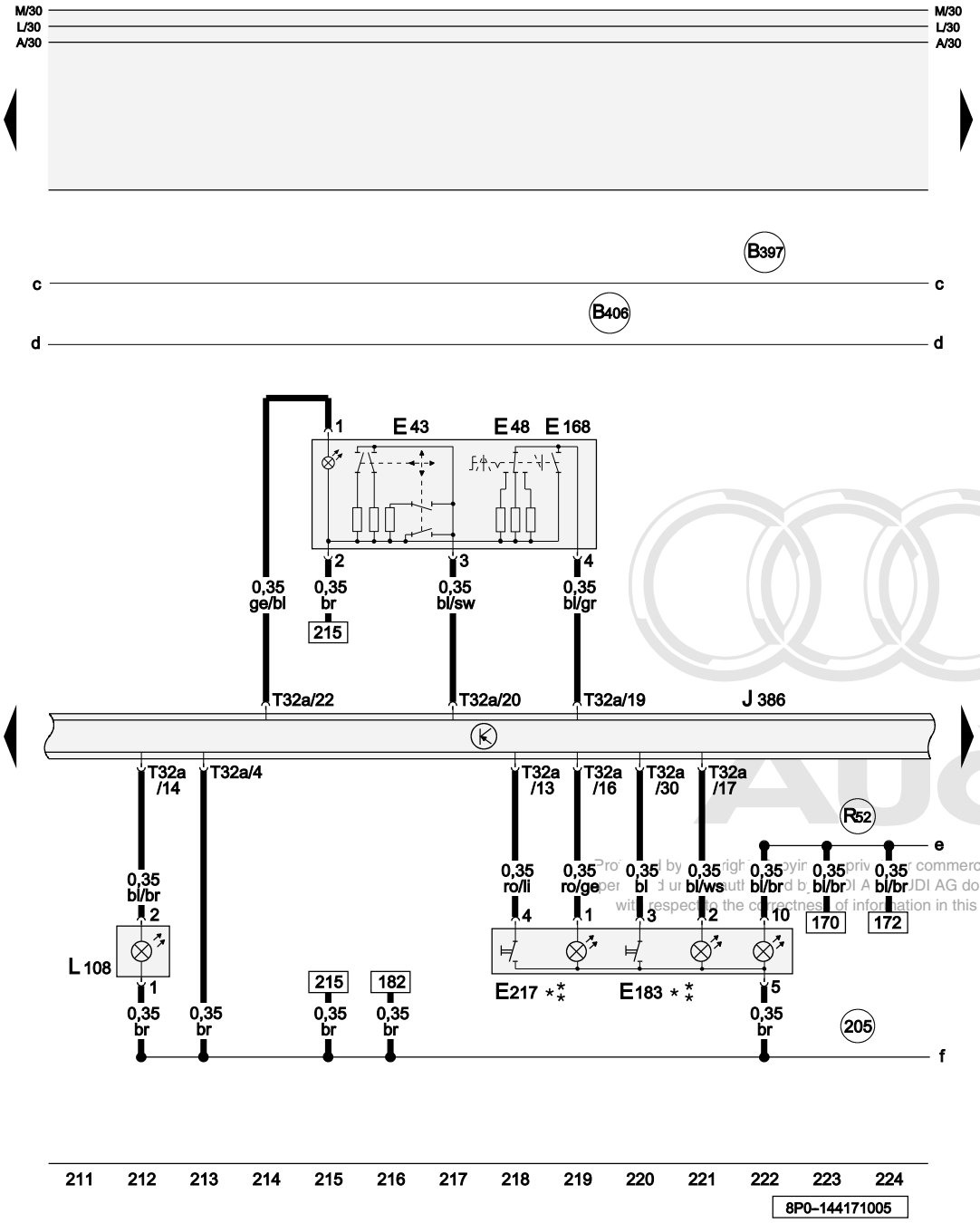


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Front left entry light, interior locking button, driver side, door warning lamp, driver side

E308	Driver side interior locking button
J386	Driver door control unit
T32a	32-pin connector, grey (connector C)
W30	Driver side door warning lamp
W31	Front left entry light
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with entry warning lamp and door warning lamp only
**	for models without entry warning lamp and door warning lamp only
***	for models with 3-door models only
****	for models with 5-door models only
#	E150 is replaced by E308
##	not for models with US equipment

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sw	=	black
ro	=	red
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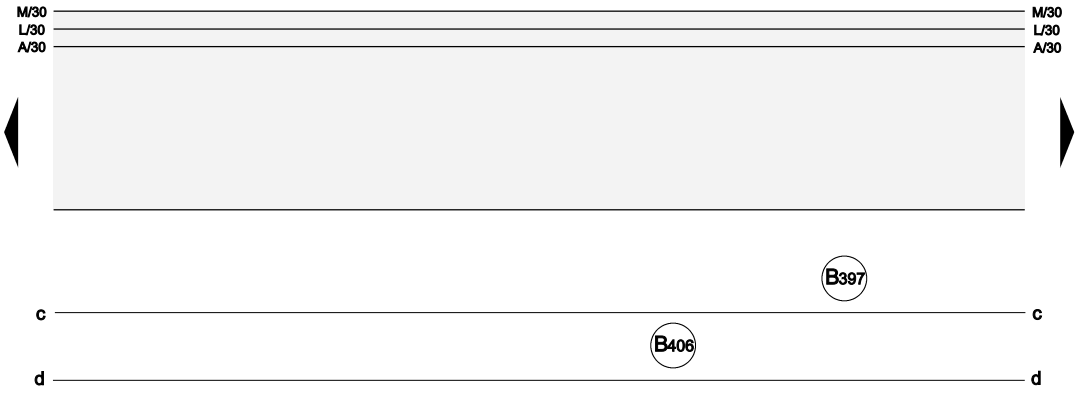


Mirror adjustment switch, alarm system off switch

E43	Mirror adjustment switch
E48	Mirror adjustment change-over switch
E168	Adjustment switch for mirror with fold-in feature
E183	Interior monitoring deactivation switch
E217	Alarm system off switch
J386	Driver door control unit
L108	Driver door opener illumination bulb
T32a	32-pin connector, grey (connector C)
205	Earth connection, in driver door wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
R52	Connection (58s), in driver side door wiring harness
*	for models with interior monitor only
**	not for models with US equipment

ws	=	white
sw	=	black
ro	=	red
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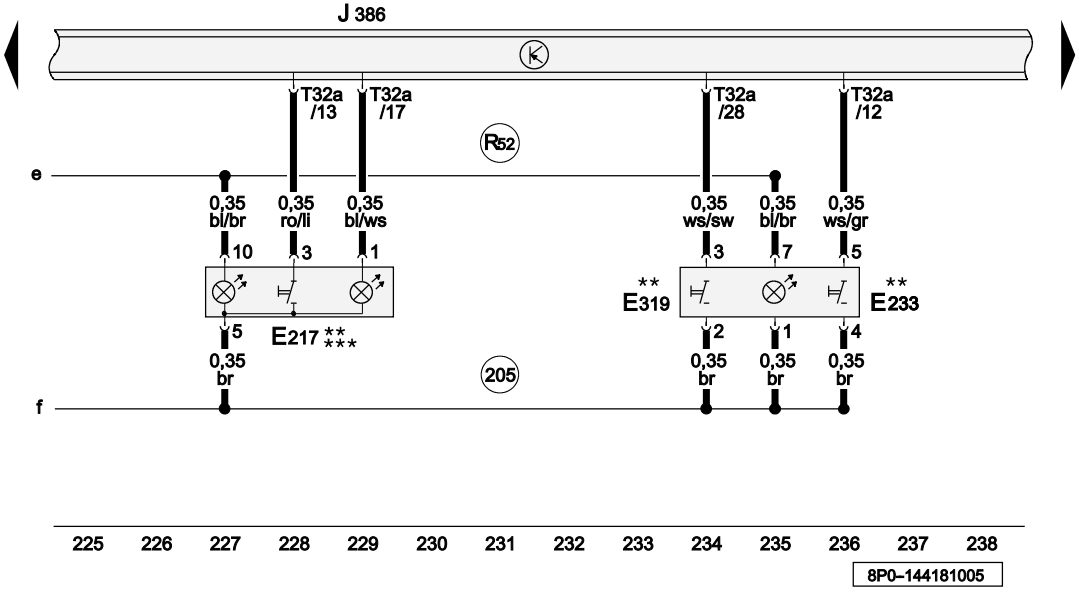
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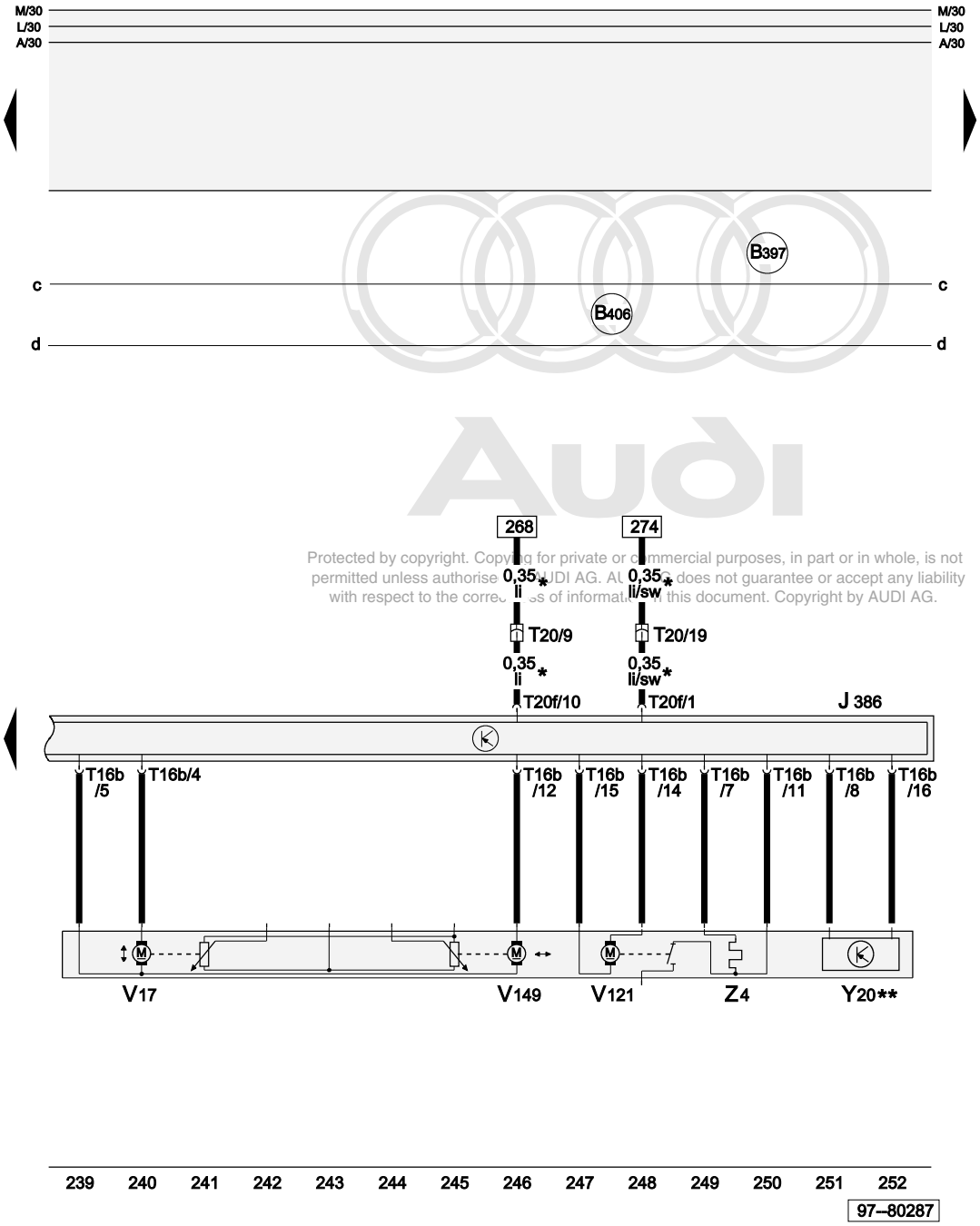
Alarm system off switch, rear lid remote release button

E217	Alarm system off switch
E233	Rear lid remote release button
E319	Fuel tank flap release button
J386	Driver door control unit
T32a	32-pin connector, grey (connector C)
205	Earth connection, in driver door wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
R52	Connection (58s), in driver side door wiring harness
**	for models with US equipment only
***	is dropped from October 2005

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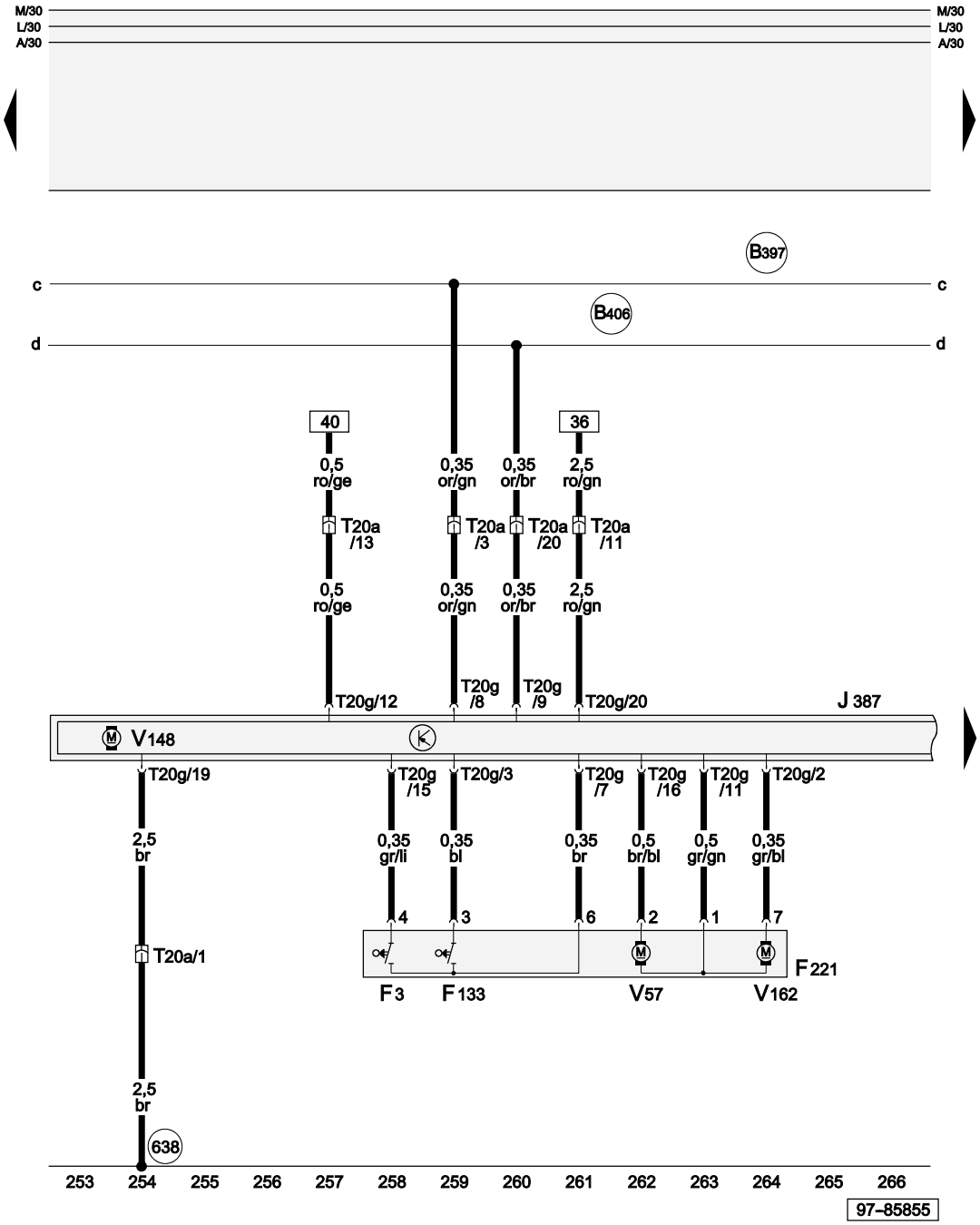


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Mirror adjustment motor/fold-in mirror motor, driver side

J386	Driver door control unit
T16b	16-pin connector, (connector B)
T20	20-pin connector, black, door A-pillar left
T20f	20-pin connector, black (connector A)
V17	Driver side mirror adjustment motor
V121	Driver side fold-in mirror motor
V149	Driver side mirror adjustment motor
Y20	Driver side automatic anti-dazzle exterior mirror
Z4	Driver side heated exterior mirror
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with automatic anti-dazzle interior mirror only
**	for models with automatic anti-dazzle exterior mirror only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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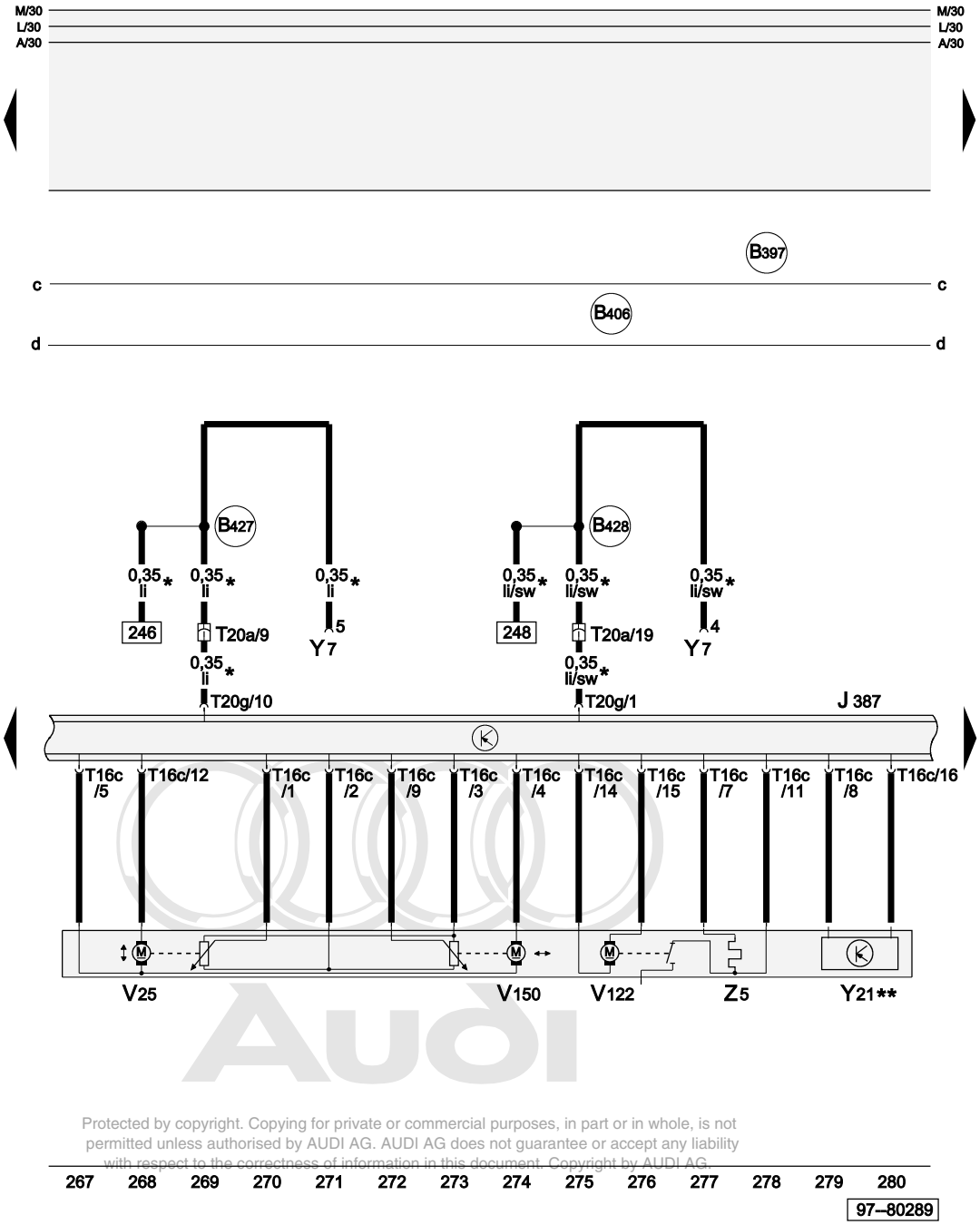


Front passenger side central locking lock unit

F3	Front passenger door contact switch
F133	Front right central locking actuator
F221	Front passenger side central locking lock unit
J387	Front passenger door control unit
T20a	20-pin connector, black, door A-pillar right
T20g	20-pin connector, black (connector A)
V57	Front passenger door central locking motor
V148	Front passenger side window regulator motor
V162	Front passenger door central locking deadlock function motor
638	Earth point, right A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
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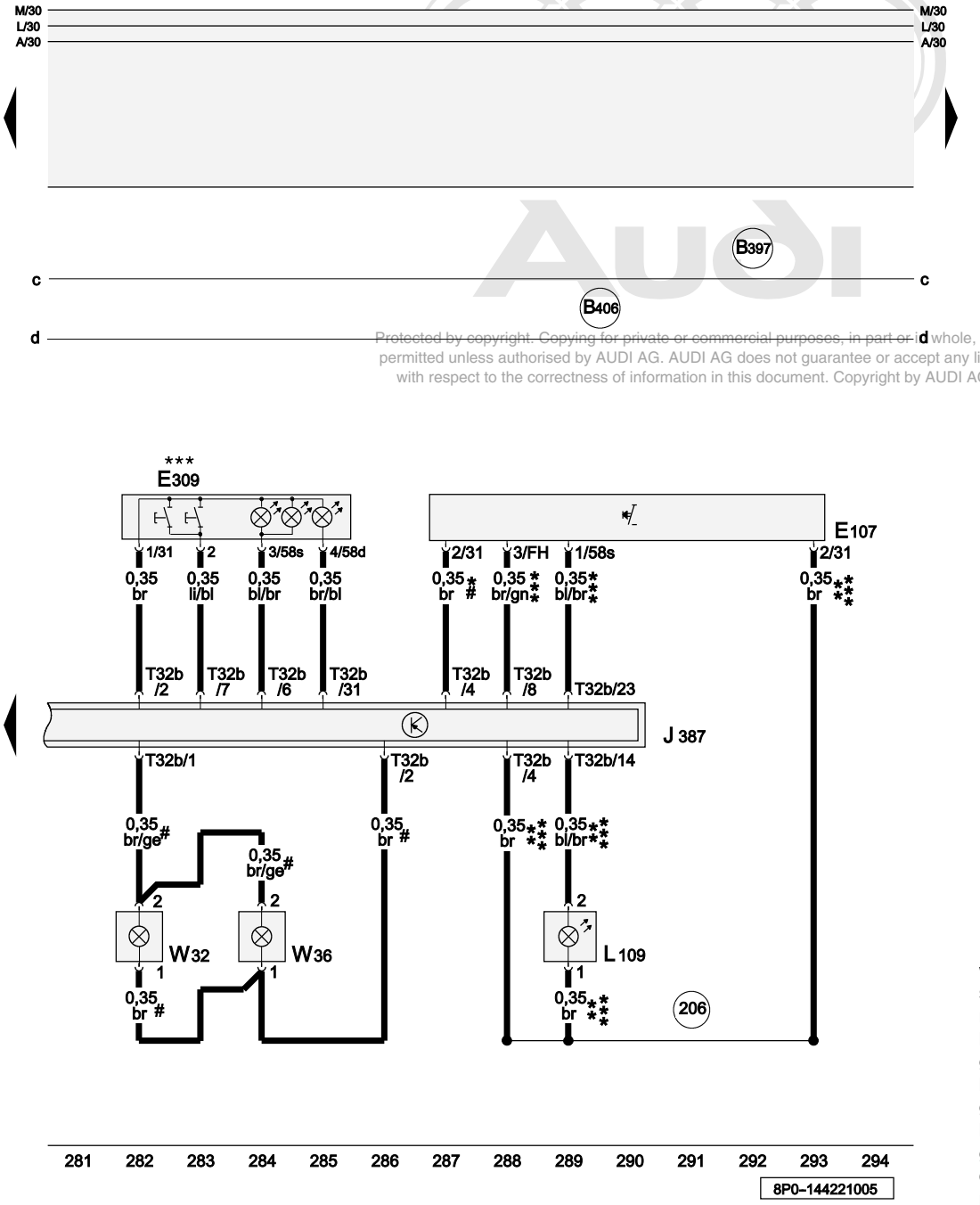


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Mirror adjustment motor/fold-in mirror motor, front passenger side

J387	Front passenger door control unit
T16c	16-pin connector, (connector B)
T20a	20-pin connector, black, door A-pillar right
T20g	20-pin connector, black (connector A)
V25	Front passenger side mirror adjustment motor
V122	Front passenger side fold-in mirror motor
V150	Front passenger side mirror adjustment motor
Y7	Automatic anti-dazzle interior mirror
Y21	Front passenger side automatic anti-dazzle exterior mirror
Z5	Front passenger side heated exterior mirror
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B427	Connection 1 (mirror signal), in main wiring harness
B428	Connection 2 (mirror signal), in main wiring harness
*	for models with automatic anti-dazzle interior mirror only
**	for models with automatic anti-dazzle exterior mirror only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

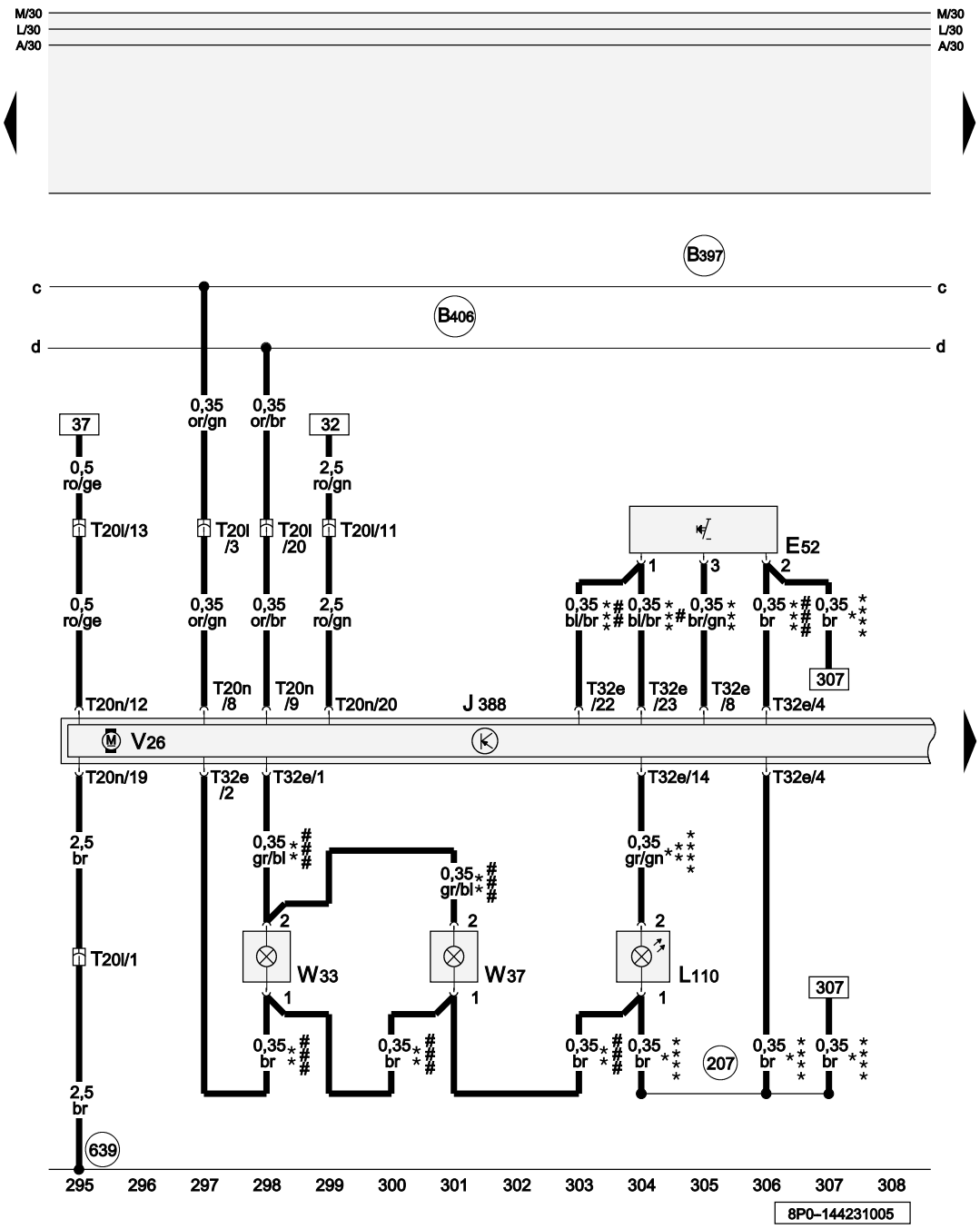


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Front right entry light, front passenger side door warning lamp, window regulator switch in front passenger door

E107	Window regulator switch in front passenger door
E309	Front passenger side interior locking button
J387	Front passenger door control unit
L109	Front passenger door opener illumination bulb
T32b	32-pin connector, grey (connector C)
W32	Front right entry light
W36	Front passenger side door warning lamp
206	Earth connection, in door wiring harness, front passenger side
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models without front passenger side door opener illumination only
**	for models with front passenger side door opener illumination only
***	for models with US equipment only
#	not for models with US equipment

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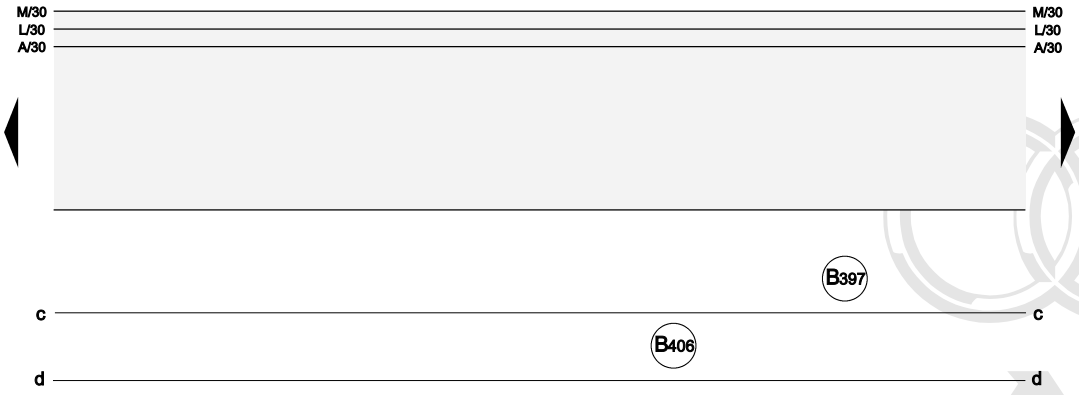


Rear left door control unit

E52	Rear left window regulator switch, in door
J388	Rear left door control unit
L110	Rear left door opener illumination bulb
T20l	20-pin connector, black, door B-pillar left
T20n	20-pin connector, black (connector A)
T32e	32-pin connector, grey (connector C)
V26	Rear left window regulator motor
W33	Rear left entry light
W37	Rear left door warning lamp
207	Earth connection, in rear left door wiring harness
639	Earth point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with window regulator switch and door opener illumination only
**	for models with door opener illumination, entry light and door warning lamp only
***	for models with window regulator switch only
****	for models with US equipment only
#	is dropped from July 2005
##	applicable from July 2005
###	not for models with US equipment

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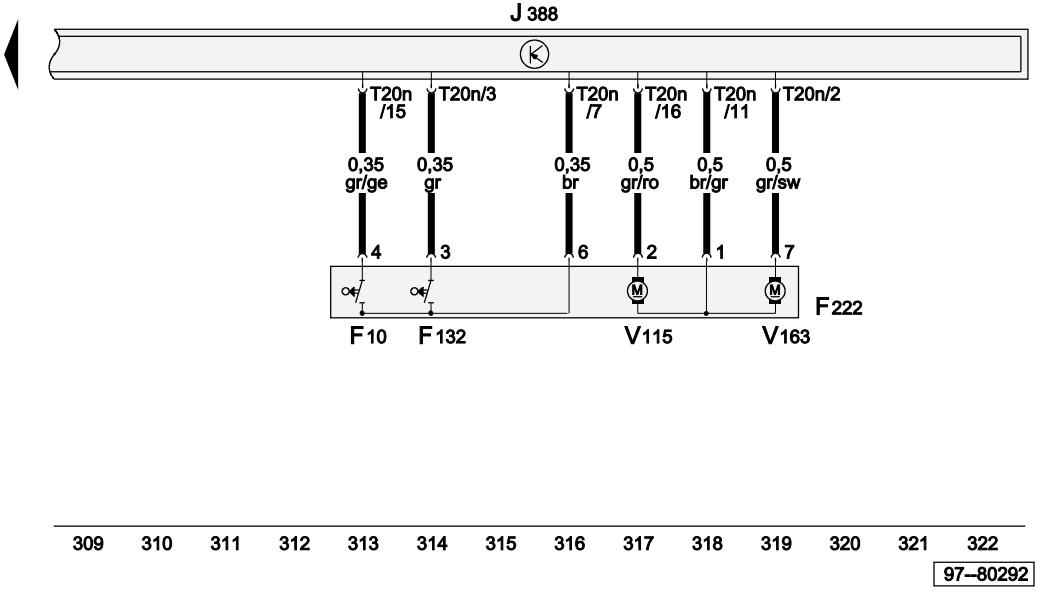
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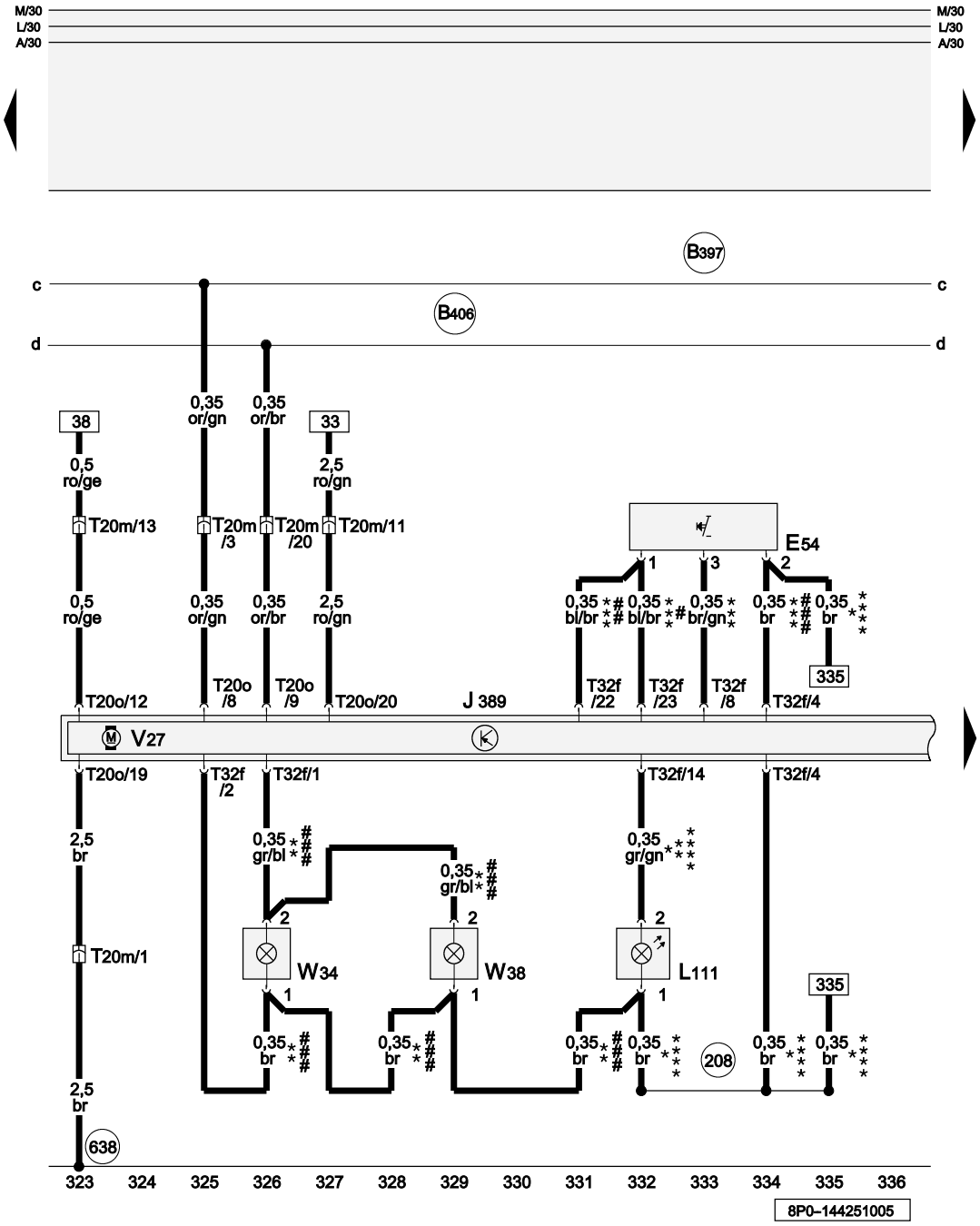
Rear left door central locking motor

F10	Rear left door contact switch
F132	Rear left central locking actuator
F222	Rear left central locking lock unit
J388	Rear left door control unit
T20n	20-pin connector, black (connector A)
V115	Rear left door central locking motor
V163	Rear left door central locking deadlock function motor
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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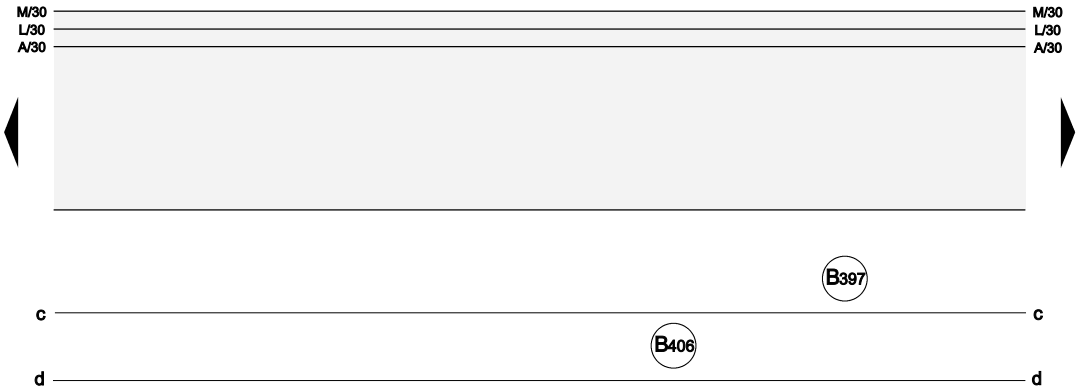


Rear right door control unit

E54	Rear right window regulator switch, in door
J389	Rear right door control unit
L111	Rear right door opener illumination bulb
T20m	20-pin connector, black, door B-pillar right
T20o	20-pin connector, black (connector A)
T32f	32-pin connector, grey (connector C)
V27	Rear right window regulator motor
W34	Rear right entry light
W38	Rear right door warning lamp
208	Earth connection, in rear right door wiring harness
638	Earth point, right A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	for models with window regulator switch and door opener illumination only
**	for models with door opener illumination, entry light and door warning lamp only
***	for models with window regulator switch only
****	for models with US equipment only
#	is dropped from July 2005
##	applicable from July 2005
###	not for models with US equipment

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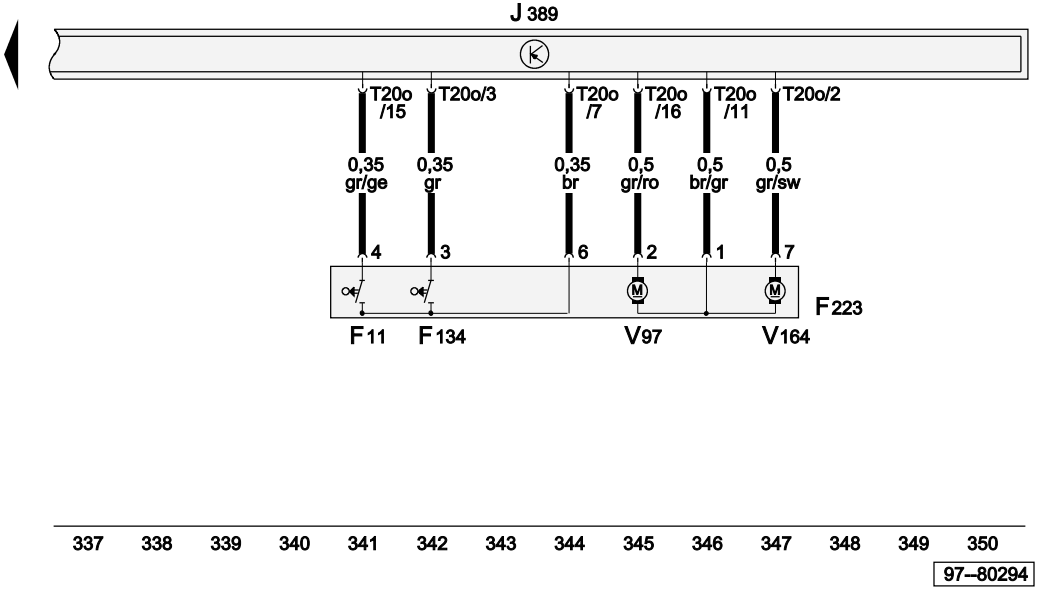
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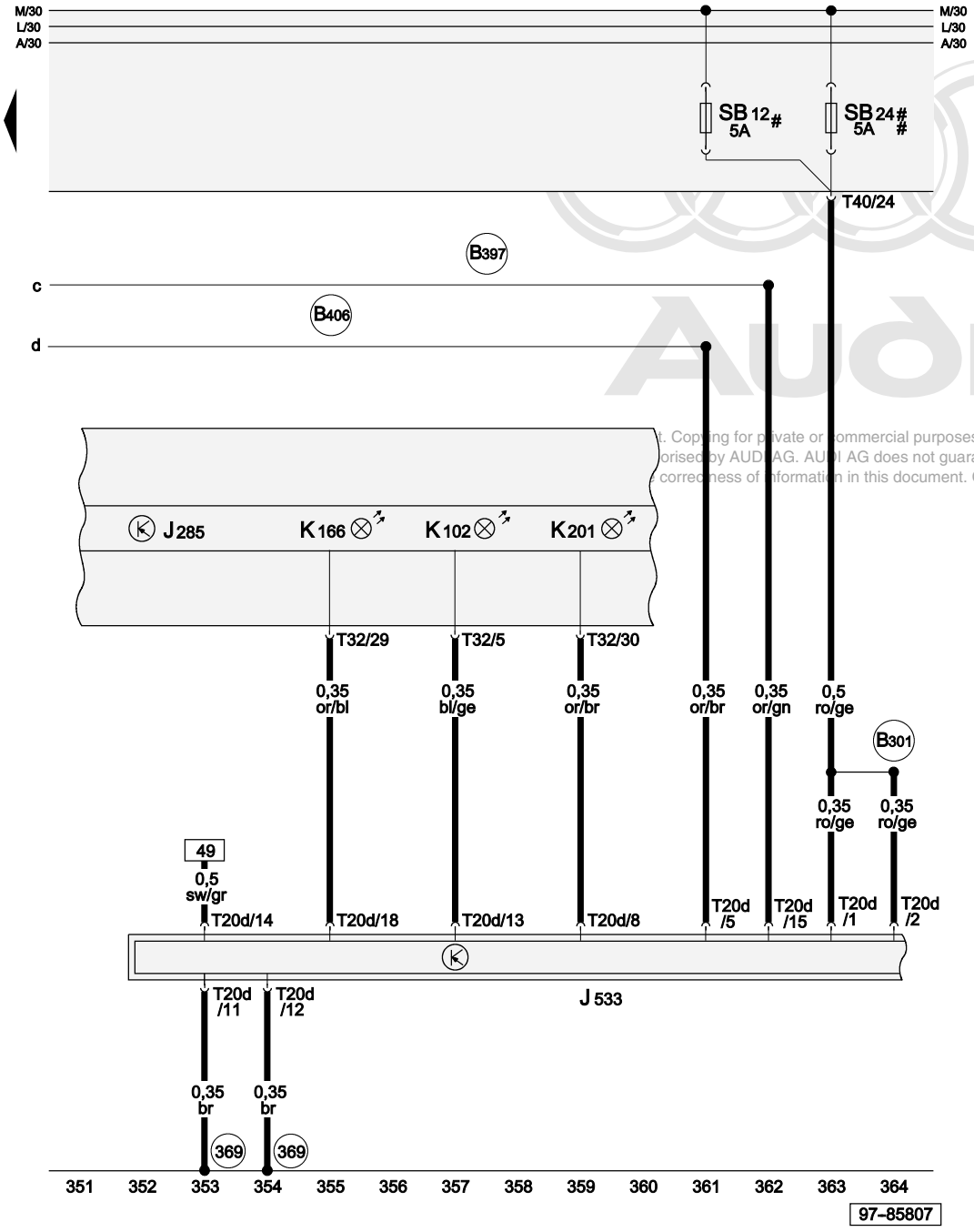
Rear right door control unit, rear right central locking lock unit

F11	Rear right door contact switch
F134	Rear right central locking actuator
F223	Rear right central locking lock unit
J389	Rear right door control unit
T20o	20-pin connector, black (connector A)
V97	Rear right door central locking motor
V164	Rear right door central locking deadlock function motor
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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Control unit in dash panel insert, data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K102	Rear lid closed warning lamp
K166	Door open warning lamp
K201	Fuel tank flap lock warning lamp
SB12	Fuse 12 on fuse holder B
SB24	Fuse 24 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
369	Earth connection 4, in main wiring harness
B301	Positive connection 5 (30), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	for models with electronics box low only ⇒ Fitting locations
##	for models with electronics box high only ⇒ Fitting locations

Steering wheel with Tiptronic-buttons

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

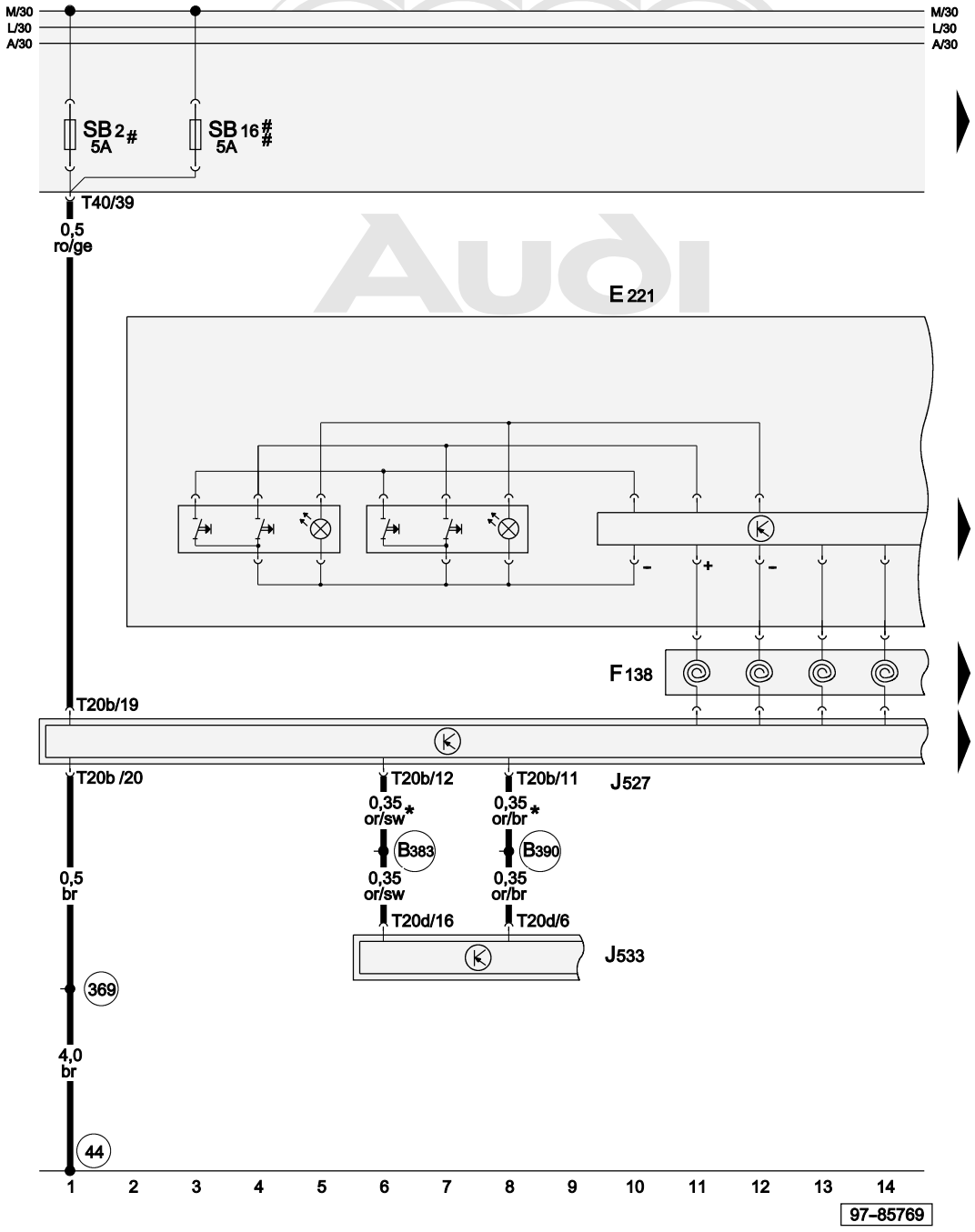
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

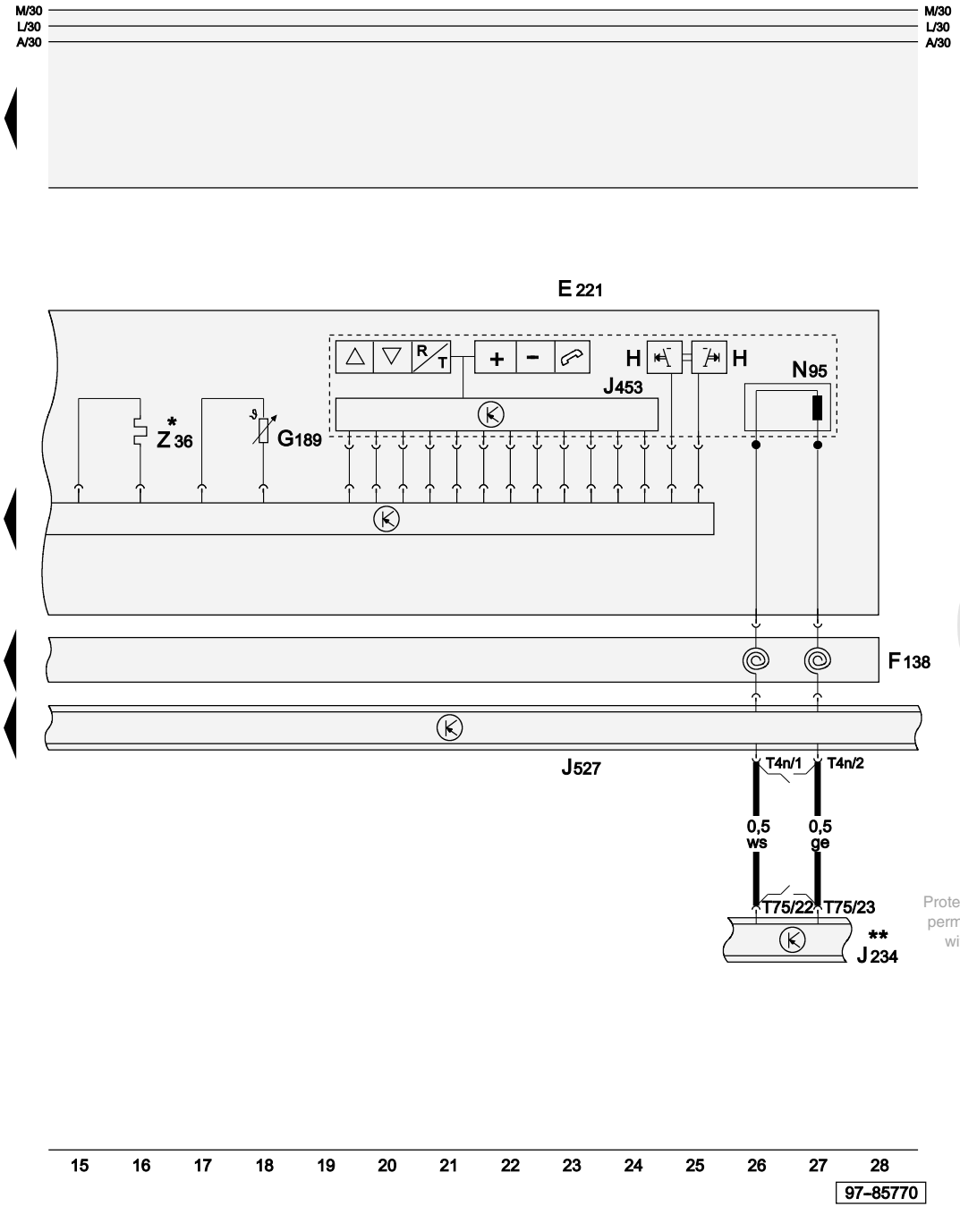
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Voltage supply, operating unit in steering wheel

E221	Operating unit in steering wheel
F138	Airbag coil connector and return spring with slip ring
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	⇒ applicable Current Flow Diagram: automatic gearbox
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations



Overheating sensor, horn plate, driver side airbag igniter

E221	Operating unit in steering wheel
F138	Airbag coil connector and return spring with slip ring
G189	Overheating sensor
H	Horn plate
J234	Airbag control unit
J453	Multifunction steering wheel control unit
J527	Steering column electronics control unit
N95	Driver side airbag igniter
T4n	4-pin connector, yellow (connector B)
T75	75-pin connector, yellow (connector locking green)
Z36	Heated steering wheel
*	for models with heated steering wheel only
**	⇒ applicable Current Flow Diagram: airbag

<fo:external-graphic src="../PDOC/samba/tools/png-convert/out//slp/ft_icons/kurzbr_l.png" content-width="20pt" scaling="uniform"/> short circuit bridge becomes effective when connector is unplugged

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Steering wheel with Tiptronic-switch rockers

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

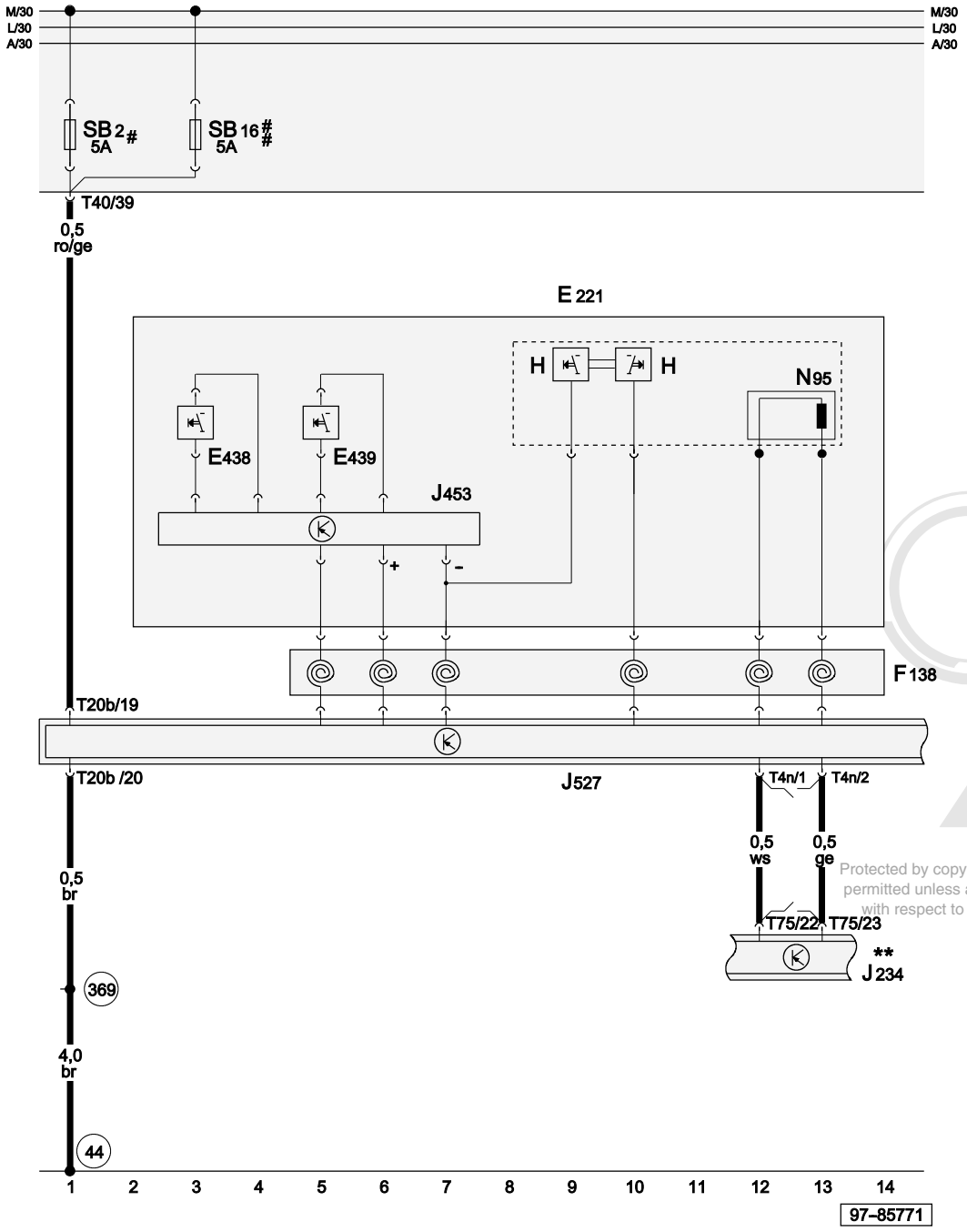
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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Voltage supply, Tiptronic switch in steering wheel

E221	Operating unit in steering wheel
E438	Tiptronic switch in steering wheel to shift up
E439	Tiptronic switch in steering wheel to shift down
F138	Airbag coil connector and return spring with slip ring
H	Horn plate
J234	Airbag control unit
J453	Multifunction steering wheel control unit
J527	Steering column electronics control unit
N95	Driver side airbag igniter
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T4n	4-pin connector, yellow (connector B)
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T75	75-pin connector, yellow (connector locking green)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
**	⇒ applicable Current Flow Diagram: airbag
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

<fo:external-graphic src="../PDOC/samba/tools/png-convert/out//slp/ft_icons/kurzbr_l.png" content-width="20pt" scaling="uniform"/>

short circuit bridge becomes effective when connector is unplugged

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Multifunction steering wheel

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

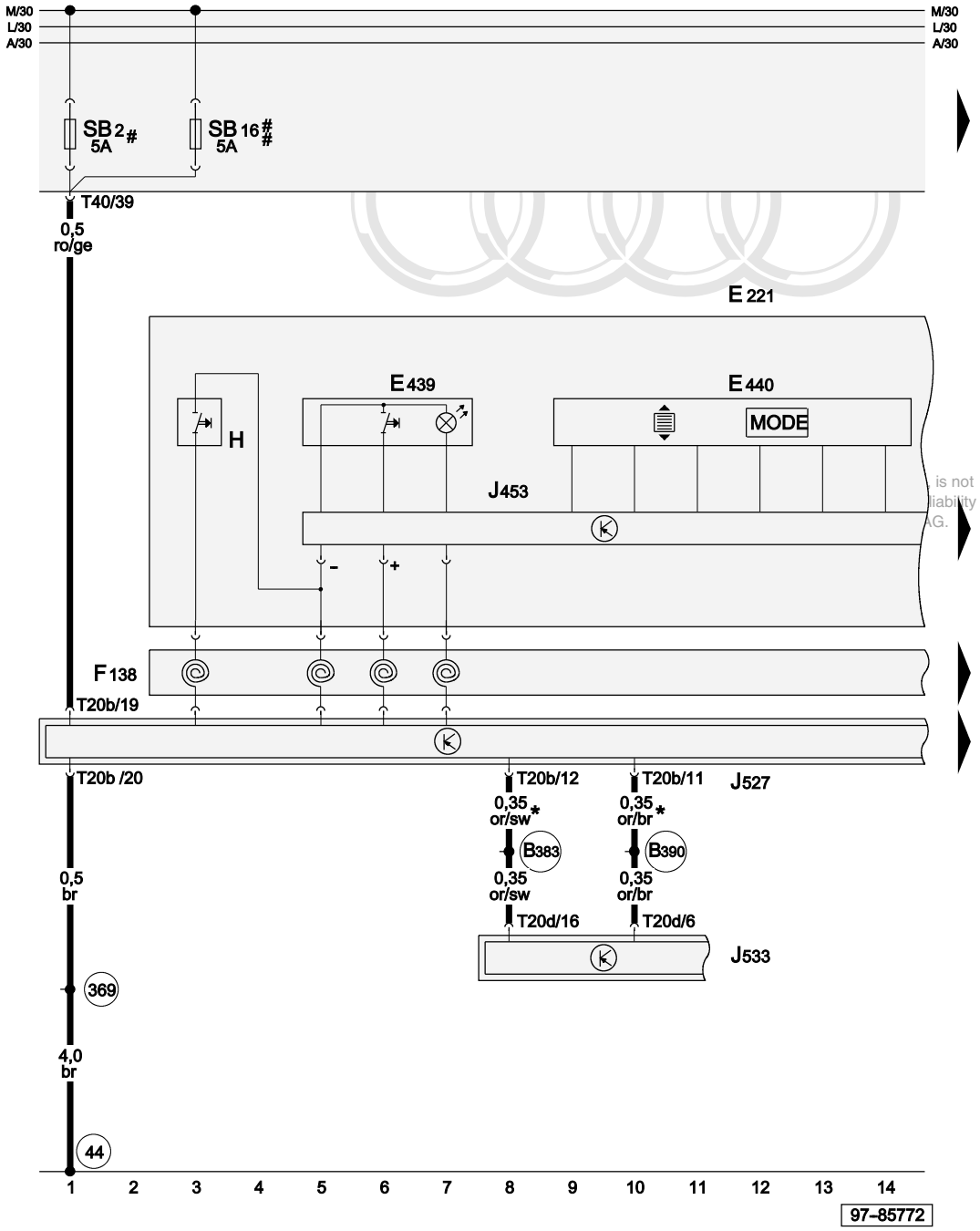
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

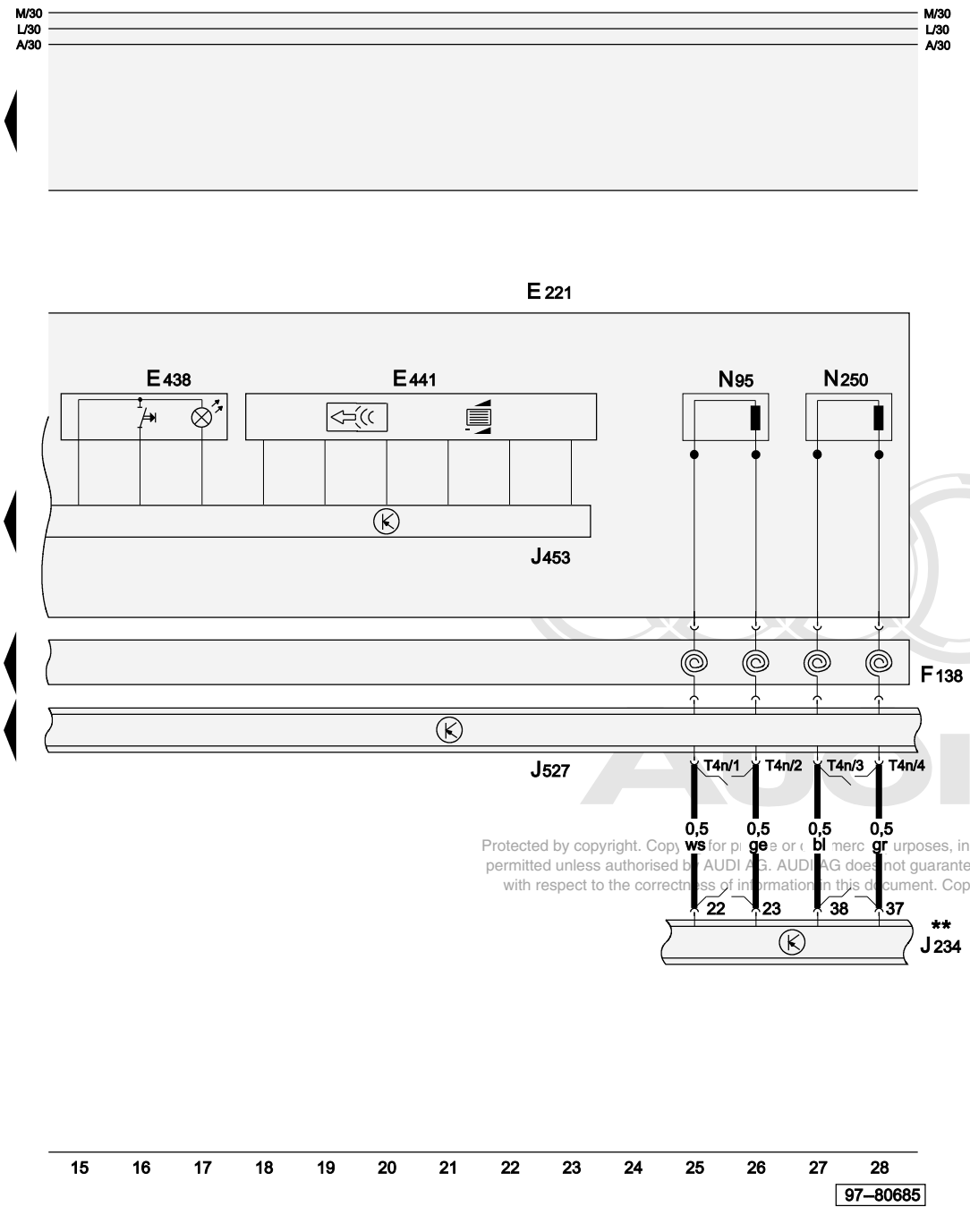
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Operating unit in steering wheel

E221	Operating unit in steering wheel
E439	Tiptronic switch in steering wheel to shift down
E440	Multifunction buttons on left in steering wheel
F138	Airbag coil connector and return spring with slip ring
H	Horn plate
J453	Multifunction steering wheel control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	⇒ applicable Current Flow Diagram: automatic gearbox
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations



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Tiptronic switch in steering wheel

E221	Operating unit in steering wheel
E438	Tiptronic switch in steering wheel to shift up
E441	Multifunction buttons on right in steering wheel
F138	Airbag coil connector and return spring with slip ring
J234	Airbag control unit
J453	Multifunction steering wheel control unit
J527	Steering column electronics control unit
N95	Driver side airbag igniter
N250	Driver side airbag igniter 2
T4n	4-pin connector, yellow (connector B)
**	⇒ applicable Current Flow Diagram: airbag

<fo:exter short circuit bridge becomes effective when connector is unplugged
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Automatic anti-dazzle interior mirror

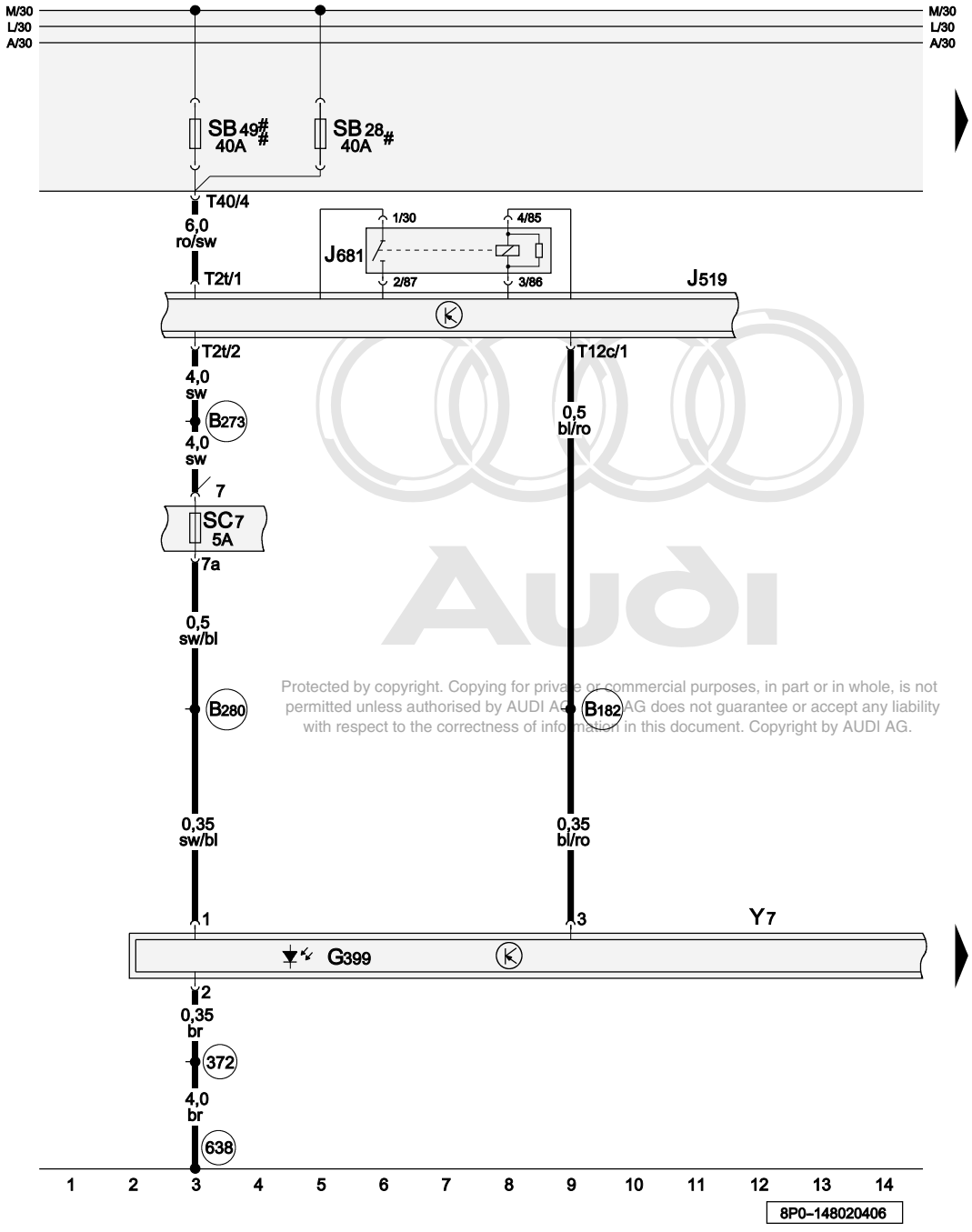
⇒ **with Coming-Home**
⇒ **without Coming-Home**
from model year 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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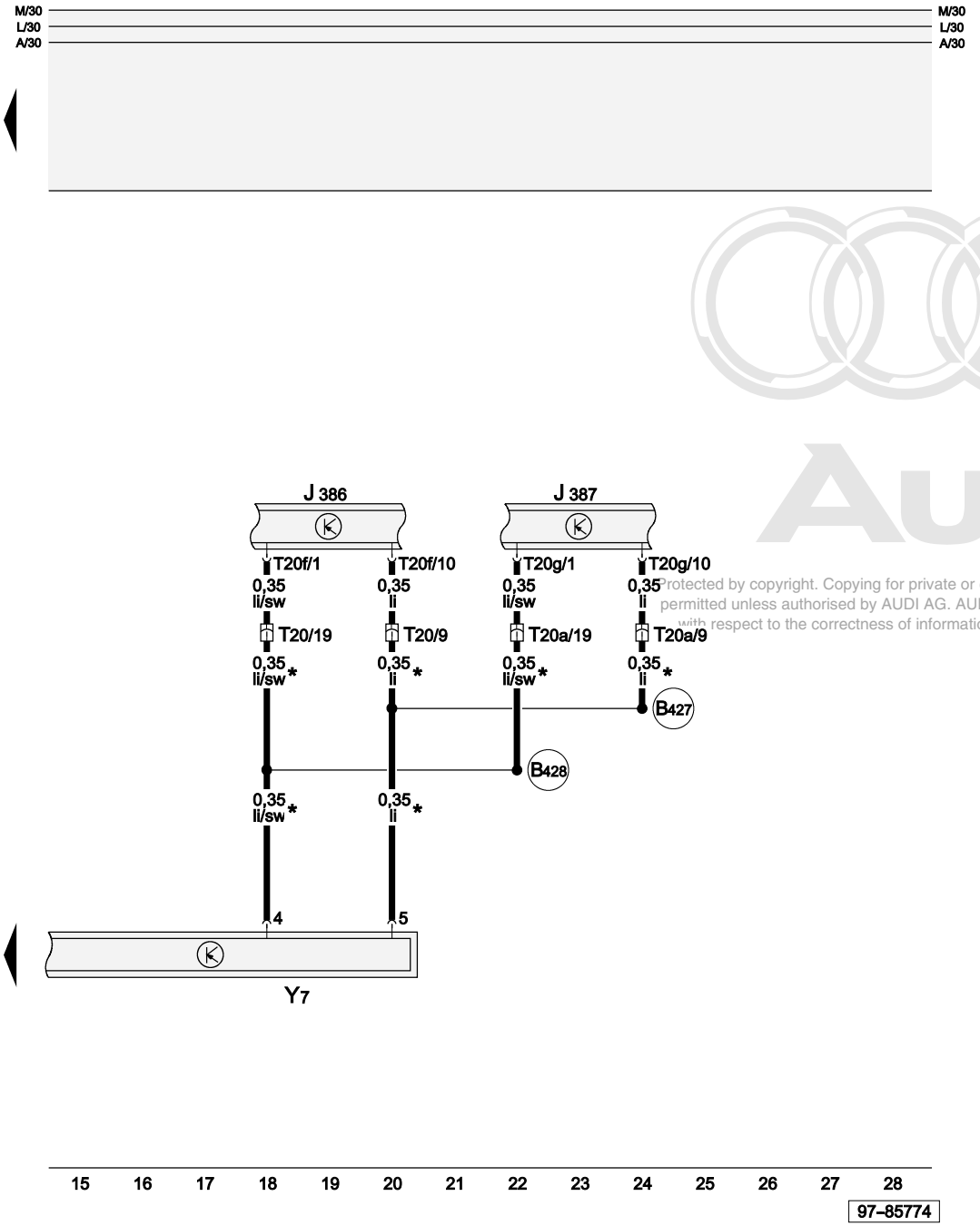


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Fuses on fuse holder, terminal 15 voltage supply relay 2

G399	Light detector sensor
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
T2t	2-pin connector, black (connector L)
T12c	12-pin connector, black (connector B)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
Y7	Automatic anti-dazzle interior mirror
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B182	Connection (RL), in interior wiring harness
B273	Positive connection (15), in main wiring harness
B280	Positive connection 4 (15a), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations



Door control units, automatic anti-dazzle interior mirror

J386	Driver door control unit
J387	Front passenger door control unit
Y7	Automatic anti-dazzle interior mirror
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
B427	Connection 1 (mirror signal), in main wiring harness
B428	Connection 2 (mirror signal), in main wiring harness
*	⇒ applicable Current Flow Diagram: convenience system

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Headlight with Coming-Home

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

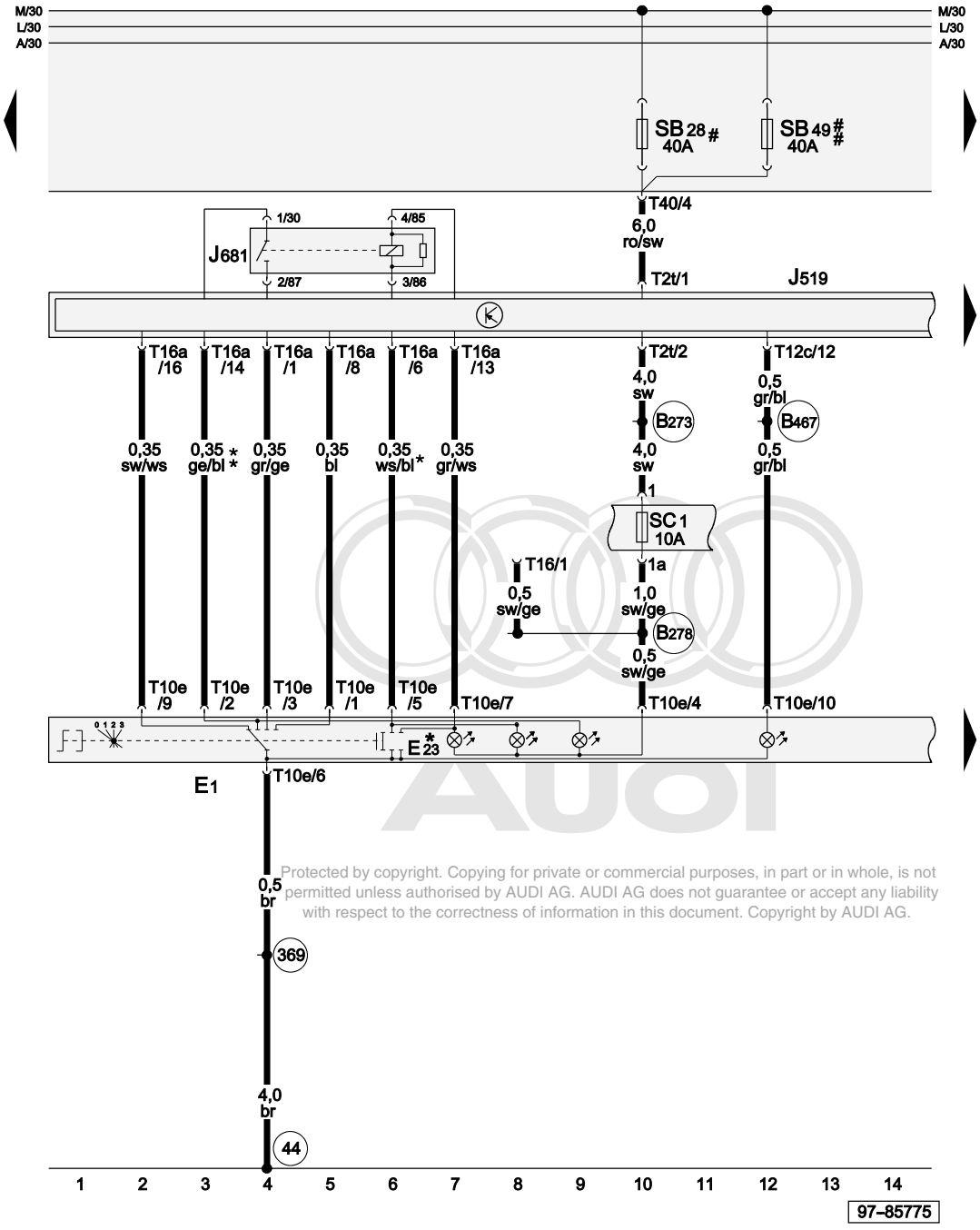
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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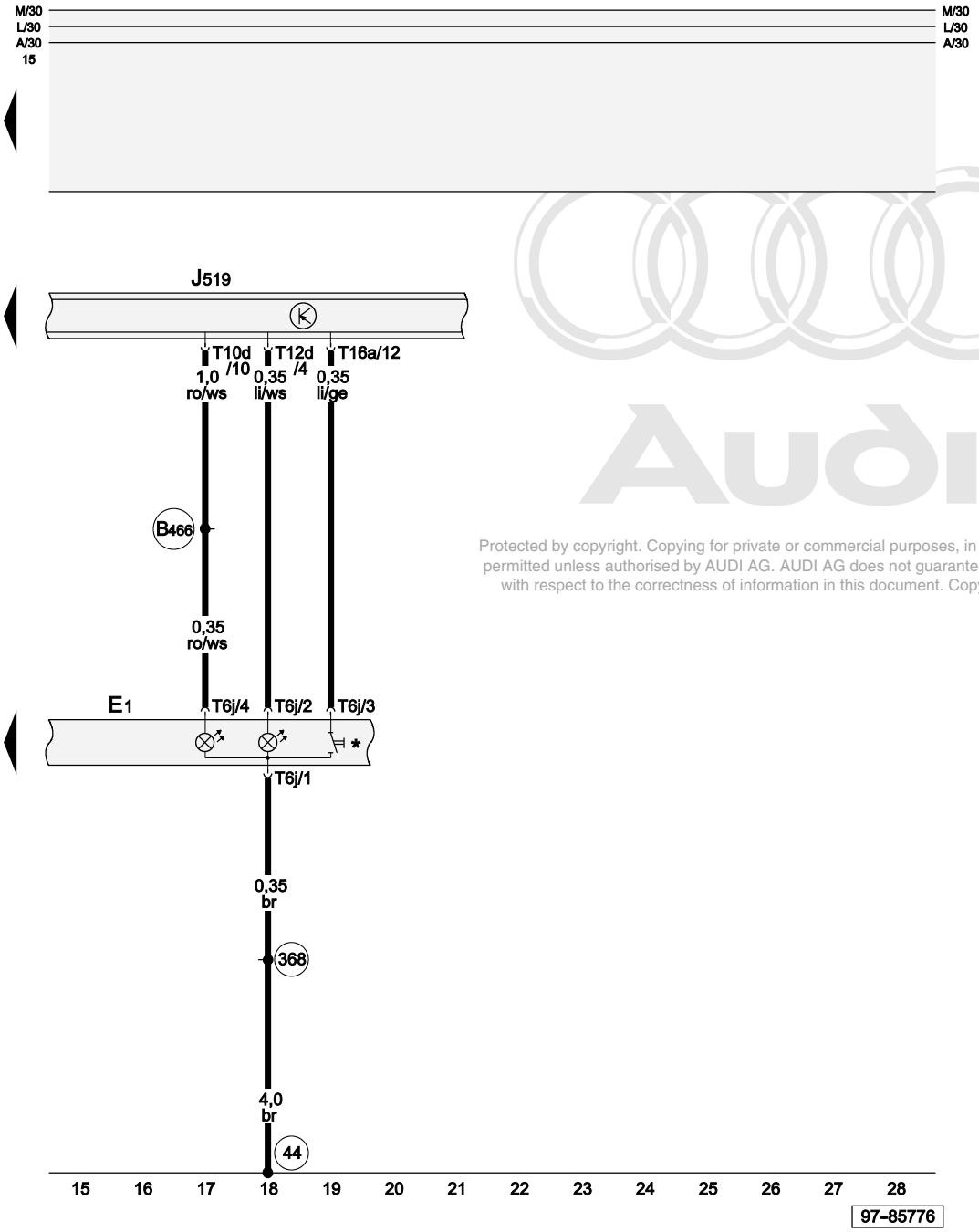


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Light switch, fuse on fuse holder

E1	Light switch
E23	Front and rear fog light switch
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
T2t	2-pin connector, black (connector L)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
B467	Connection 3, in main wiring harness
*	for models with front fog light only
**	for models with automatic headlight switching only
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations



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Light switch

E1	Light switch
J519	Onboard supply control unit
T6j	6-pin connector, black (connector C)
T10d	10-pin connector, black (connector K)
T12d	12-pin connector, brown (connector C)
T16a	16-pin connector, black (connector E)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
B466	Connection 2, in main wiring harness
*	Coming-Home-switch

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Lumbar support adjustment, with manual seat adjustment

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

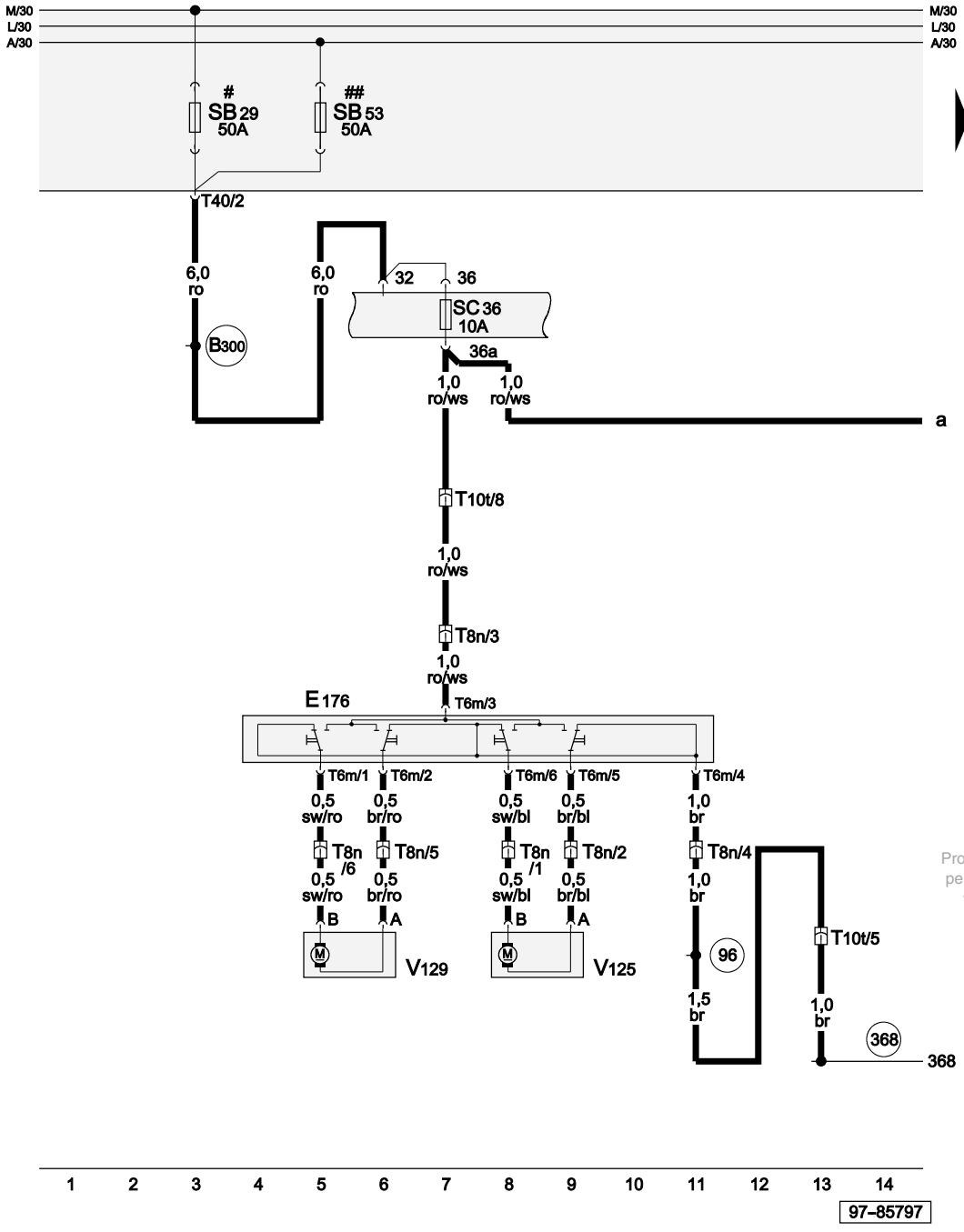
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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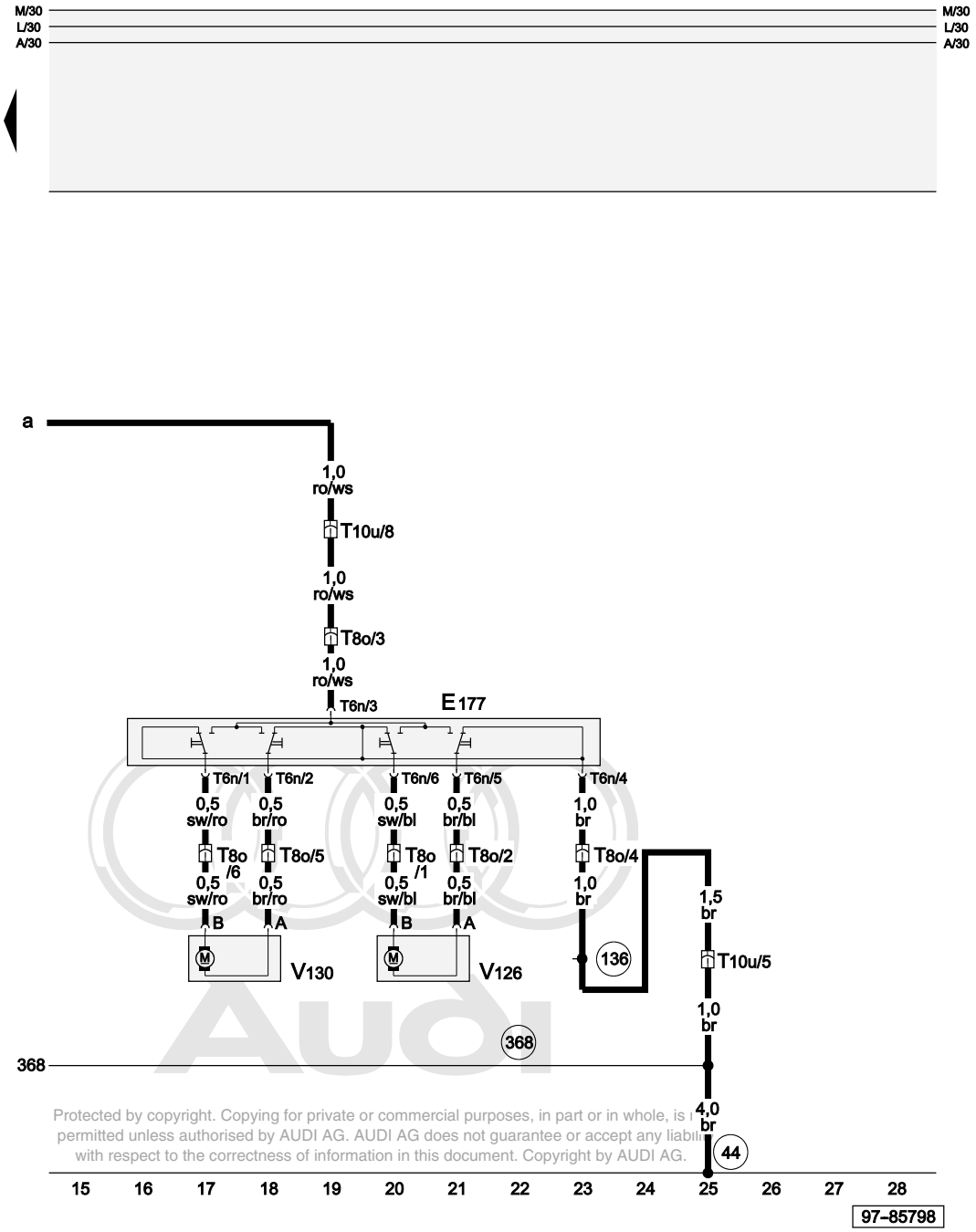


Driver seat lumbar support adjustment

E176	Driver seat lumbar support adjustment switch
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC36	Fuse 36 on fuse holder C
T6m	6-pin connector, black, on lumbar support adjustment switch, driver seat
T8n	8-pin connector, black, under driver seat
T10t	10-pin connector, black, under driver seat
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V125	Driver seat lumbar support longitudinal adjustment motor
V129	Driver seat lumbar support height adjustment motor
96	Earth connection 1, in seat heating wiring harness
368	Earth connection 3, in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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or	=	orange
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Front passenger seat lumbar support adjustment

E177	Front passenger seat lumbar support adjustment switch
T6n	6-pin connector, black, lumbar support adjustment switch, front passenger seat
T8o	8-pin connector, black, under front passenger seat
T10u	10-pin connector, black, under front passenger seat
V126	Front passenger seat lumbar support longitudinal adjustment motor
V130	Front passenger seat lumbar support height adjustment motor
44	Earth point, lower part of left A-pillar
136	Earth connection 2, in seat heating wiring harness
368	Earth connection 3, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Electric seat adjustment with lumbar support adjustment and seat heating

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

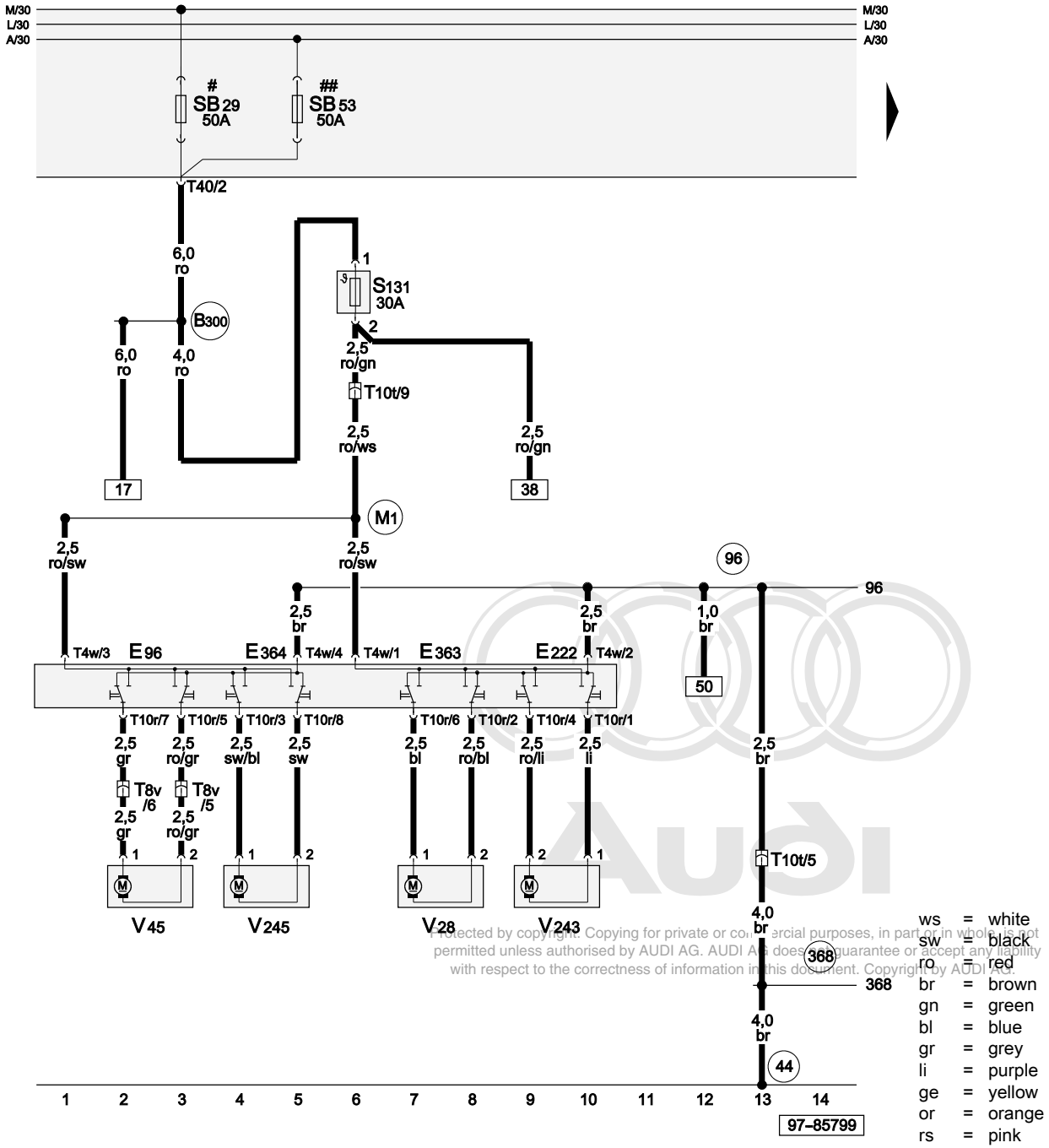
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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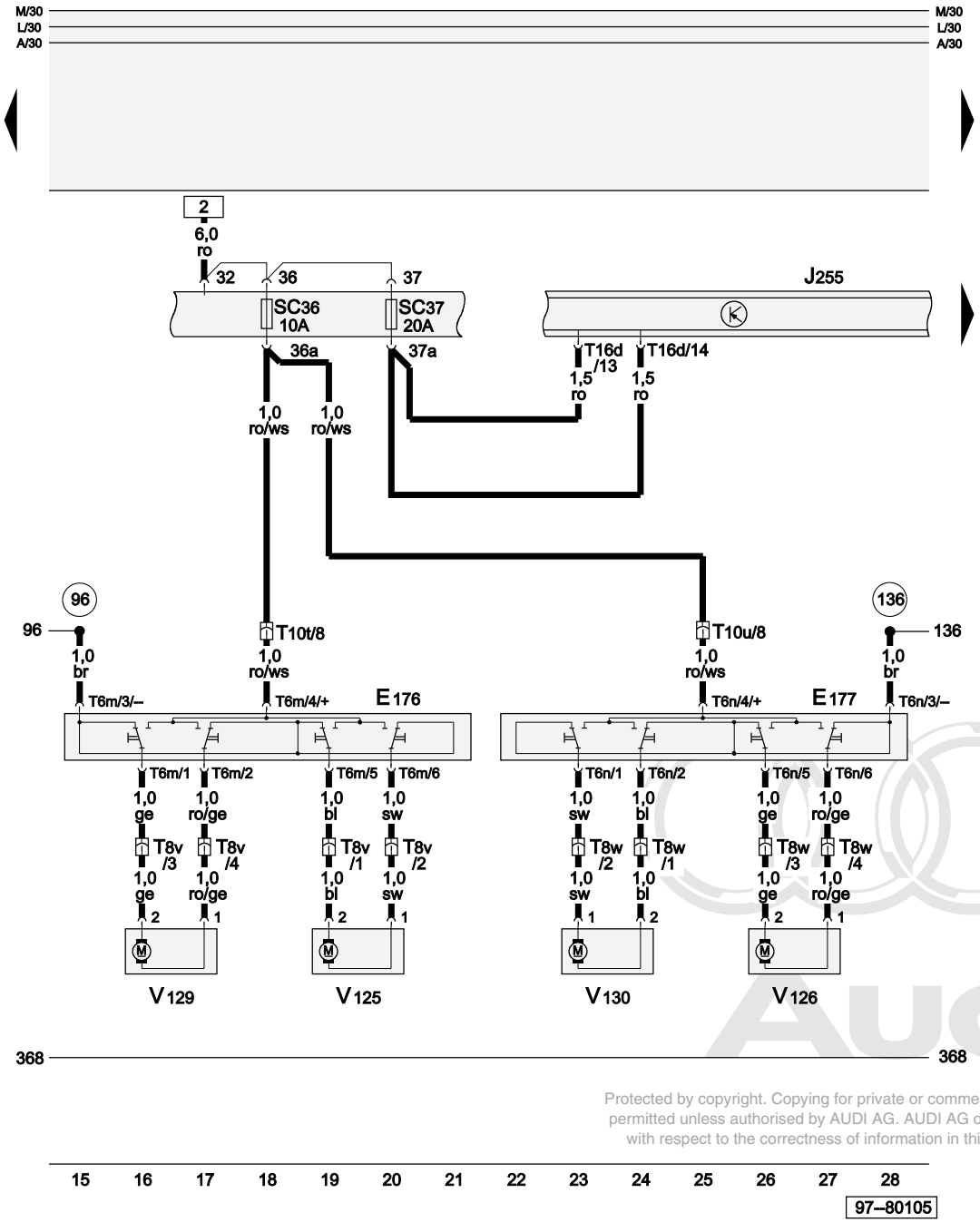


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Seat adjustment driver seat

E96	Driver seat backrest adjustment switch
E222	Driver seat rake adjustment switch
E363	Driver seat longitudinal adjustment switch
E364	Driver seat height adjustment switch
S131	Fuse 1
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
T4w	4-pin connector, black
T8v	8-pin connector, black, on driver seat, seat backrest
T10r	10-pin connector, black
T10t	10-pin connector, black, under driver seat
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V28	Driver seat longitudinal adjustment motor
V45	Driver seat backrest adjustment motor
V243	Driver seat rake adjustment motor
V245	Driver seat height adjustment motor
44	Earth point, lower part of left A-pillar
96	Earth connection 1, in seat heating wiring harness
368	Earth connection 3, in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
M1	Positive connection 1 (30), in seat adjustment wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

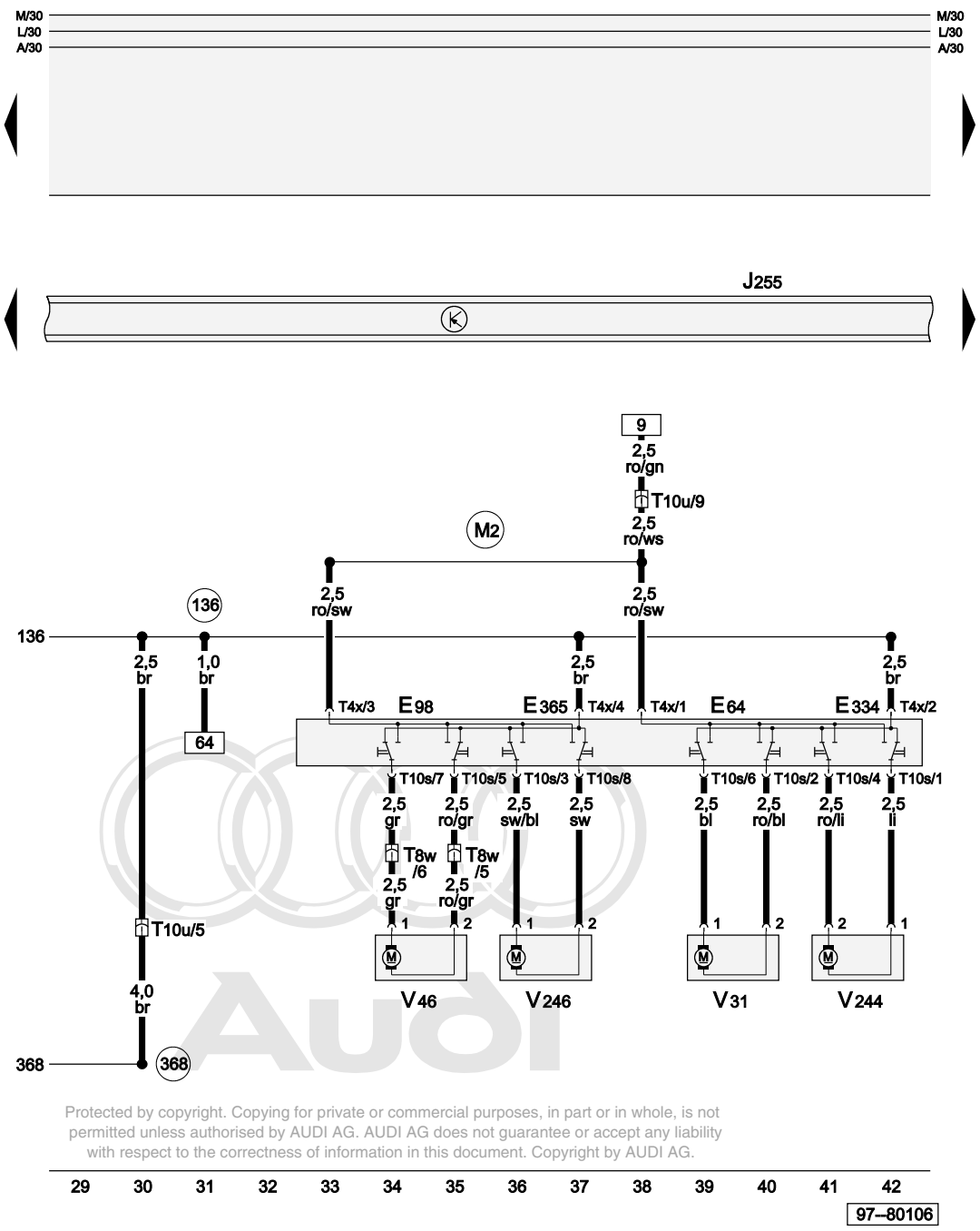


Seat lumbar support adjustment

E176	Driver seat lumbar support adjustment switch
E177	Front passenger seat lumbar support adjustment switch
J255	Climatronic control unit
SC36	Fuse 36 on fuse holder C
SC37	Fuse 37 on fuse holder C
T6m	6-pin connector, black, on lumbar support adjustment switch, driver seat
T6n	6-pin connector, black, lumbar support adjustment switch, front passenger seat
T8v	8-pin connector, black, on driver seat, seat backrest
T8w	8-pin connector, black, on front passenger seat, seat backrest
T10t	10-pin connector, black, under driver seat
T10u	10-pin connector, black, under front passenger seat
T16d	16-pin connector, black (connector D)
V125	Driver seat lumbar support longitudinal adjustment motor
V126	Front passenger seat lumbar support longitudinal adjustment motor
V129	Driver seat lumbar support height adjustment motor
V130	Front passenger seat lumbar support height adjustment motor
96	Earth connection 1, in seat heating wiring harness
136	Earth connection 2, in seat heating wiring harness

ws	=	white
sw	=	black
ro	=	red
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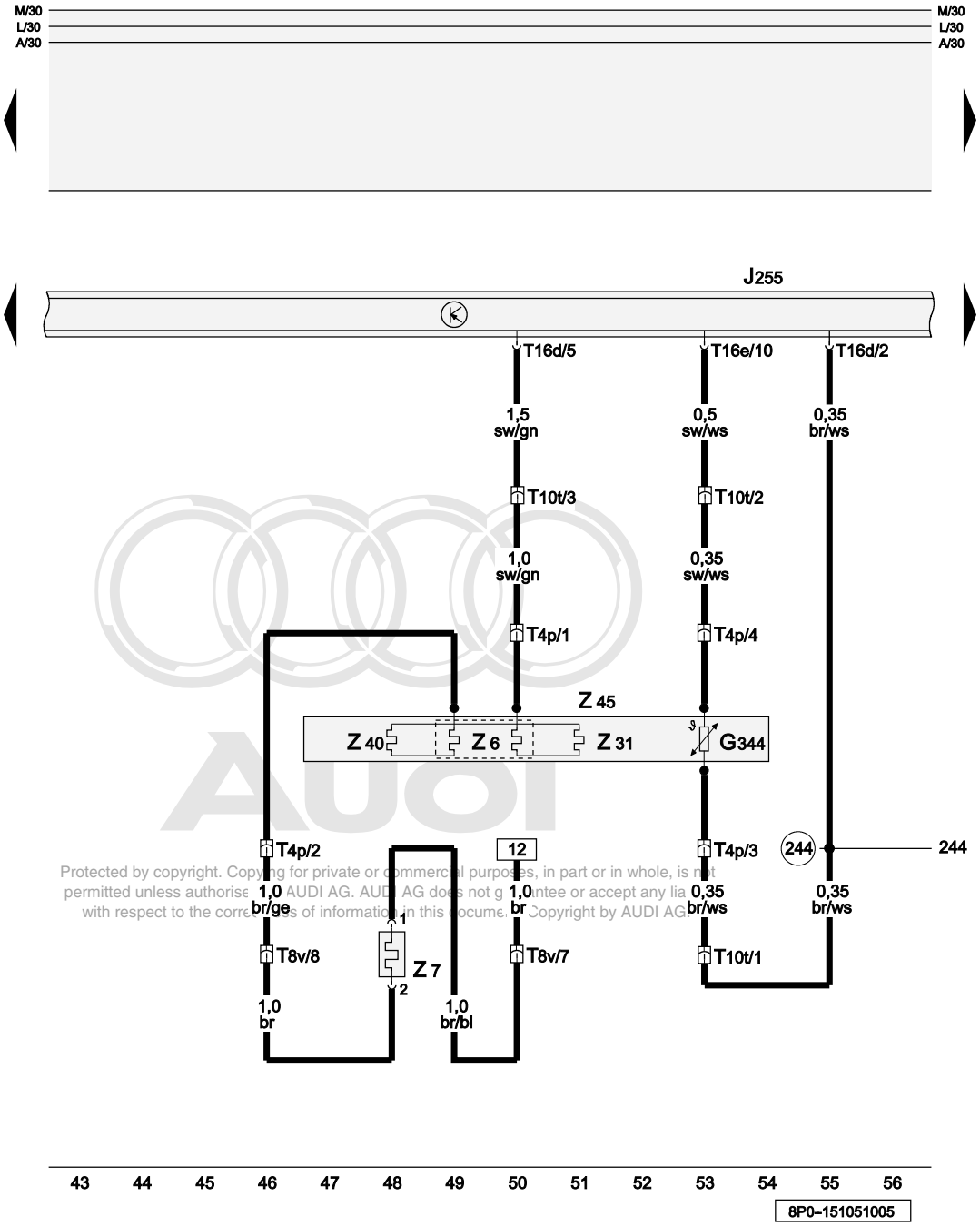


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Seat adjustment front passenger seat

E64	Front passenger seat longitudinal adjustment switch
E98	Front passenger seat backrest adjustment switch
E334	Front passenger seat rake adjustment button
E365	Front passenger seat height adjustment switch
J255	Climatronic control unit
T4x	4-pin connector, black
T8w	8-pin connector, black, on front passenger seat, seat backrest
T10s	10-pin connector, black
T10u	10-pin connector, black, under front passenger seat
V31	Front passenger seat longitudinal adjustment motor
V46	Front passenger seat backrest adjustment motor
V244	Front passenger seat rake adjustment motor
V246	Front passenger seat height adjustment motor
136	Earth connection 2, in seat heating wiring harness
368	Earth connection 3, in main wiring harness
M2	Positive connection 2 (30), in seat adjustment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

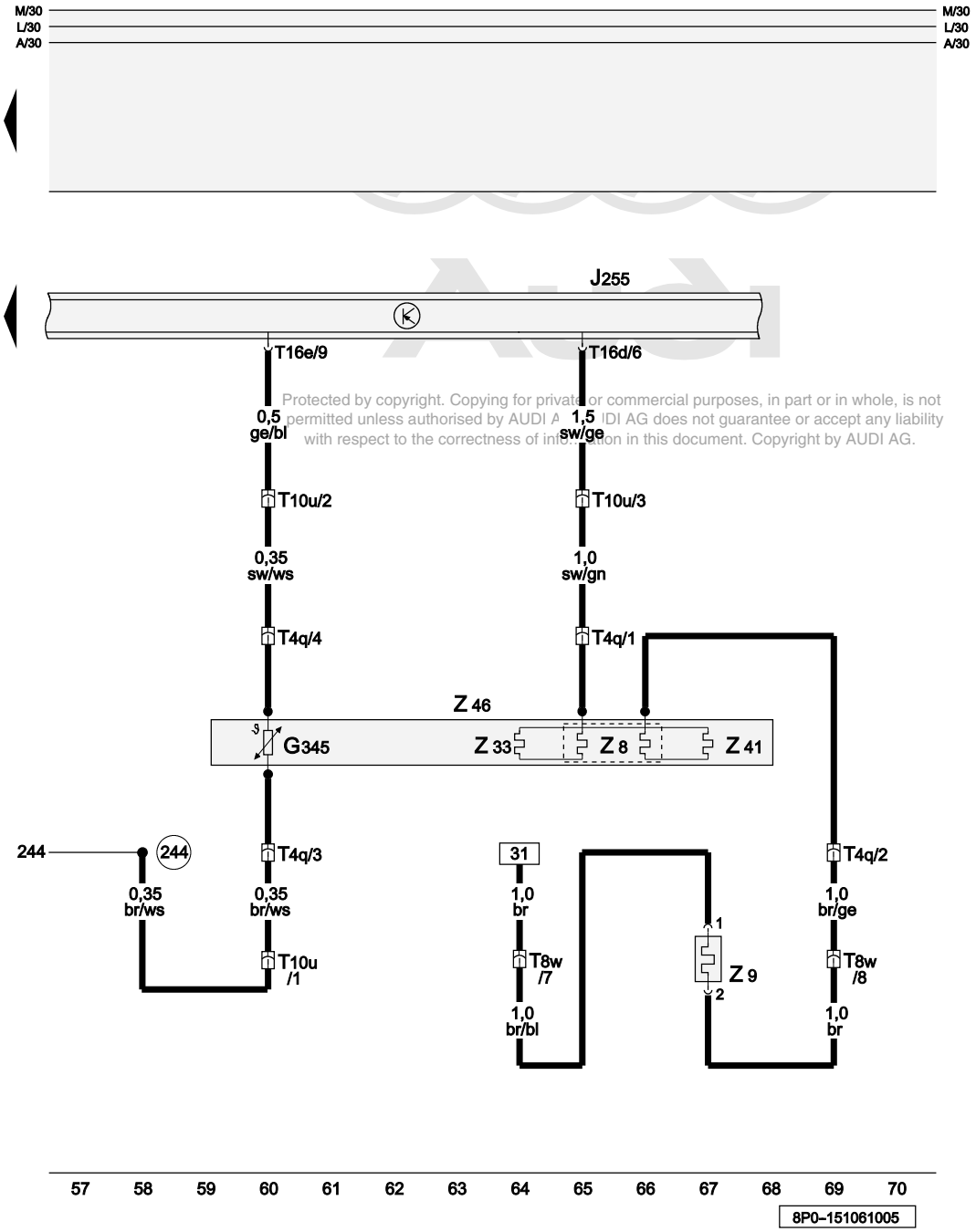


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Seat heating driver seat

G344	Front left seat temperature sender
J255	Climatronic control unit
T4p	4-pin connector, black, on heated driver seat
T8v	8-pin connector, black, on driver seat, seat backrest
T10t	10-pin connector, black, under driver seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z6	Heated driver seat cushion
Z7	Heated driver seat backrest
Z31	Driver seat cushion lateral support heater
Z40	Driver seat lateral support heater 2
Z45	Front left seat heating
244	Earth connection (sender earth), in Climatronic wiring harness

ws	=	white
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ro	=	red
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Seat heating front passenger seat

G345	Front right seat temperature sender
J255	Climatronic control unit
T4q	4-pin connector, black, on heated front passenger seat
T8w	8-pin connector, black, on front passenger seat, seat backrest
T10u	10-pin connector, black, under front passenger seat
T16d	16-pin connector, black (connector D)
T16e	16-pin connector, brown (connector C)
Z8	Heated front passenger seat cushion
Z9	Heated front passenger seat backrest
Z33	Front passenger seat lateral support heater
Z41	Front passenger seat lateral support heater 2
Z46	Front right seat heating
244	Earth connection (sender earth), in Climatronic wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Headlight for gaseous discharge light and automatic headlight range control

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

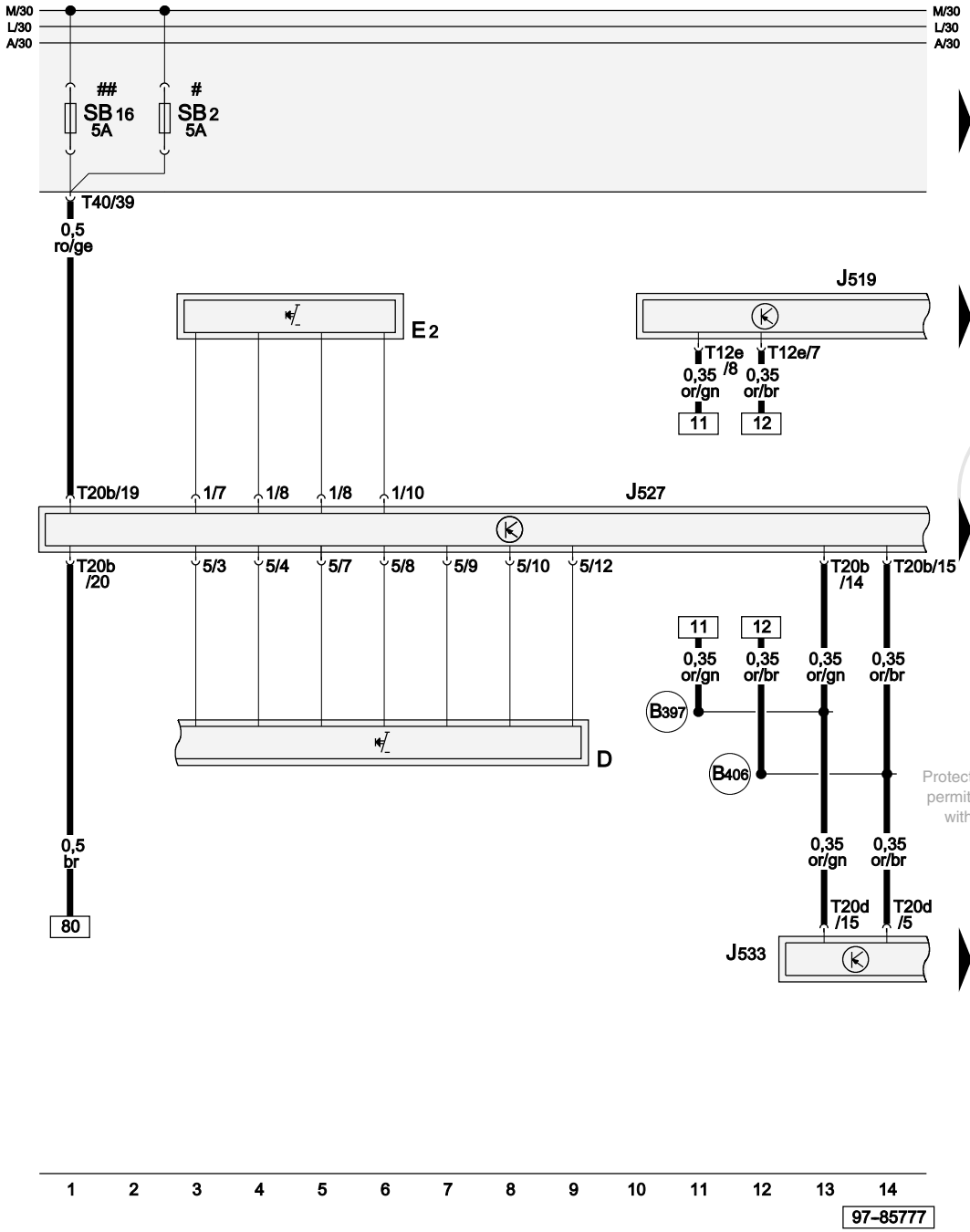
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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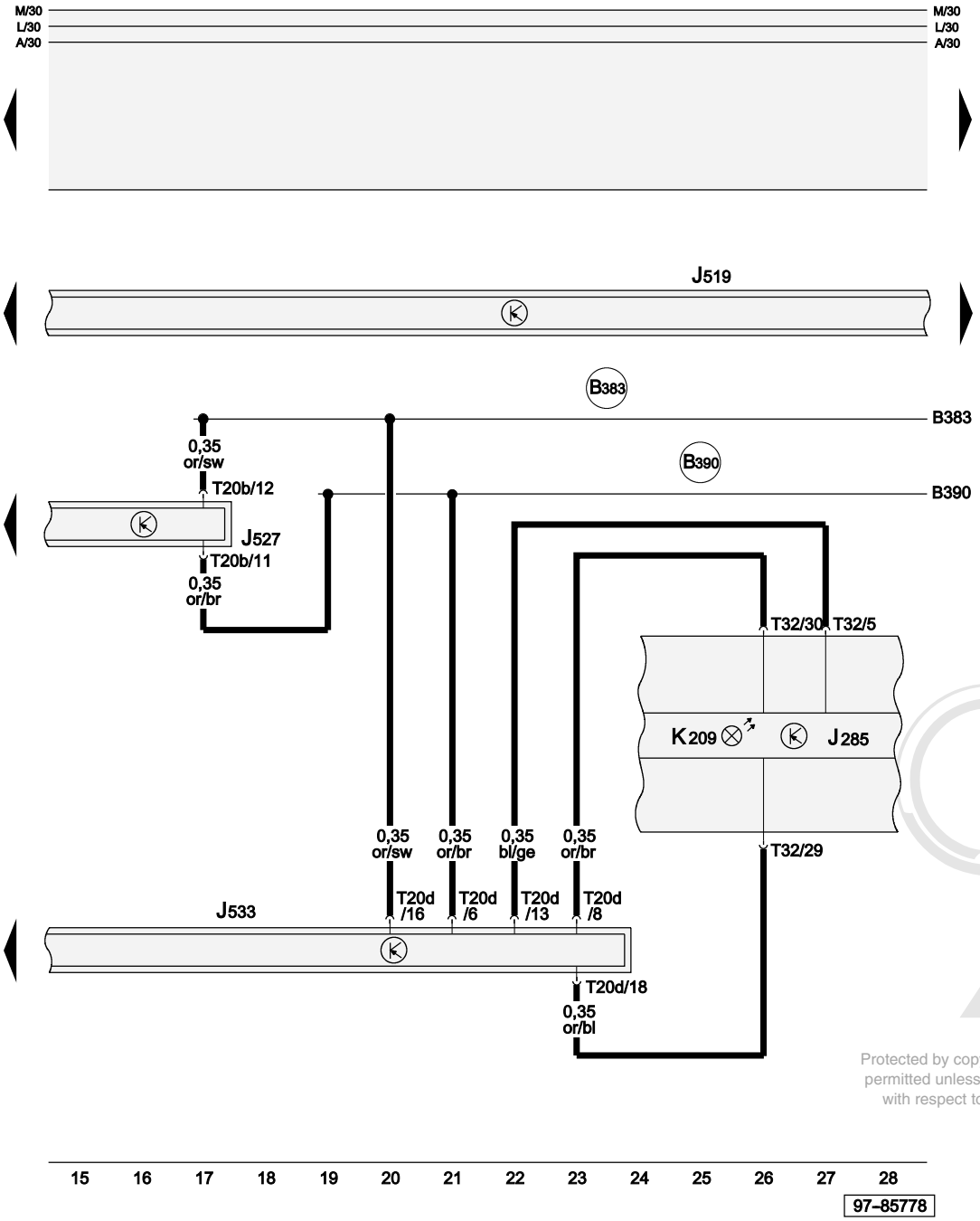


Ignition/starter switch, turn signal switch

D	Ignition/starter switch
E2	Turn signal switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
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li = purple
ge = yellow
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rs = pink

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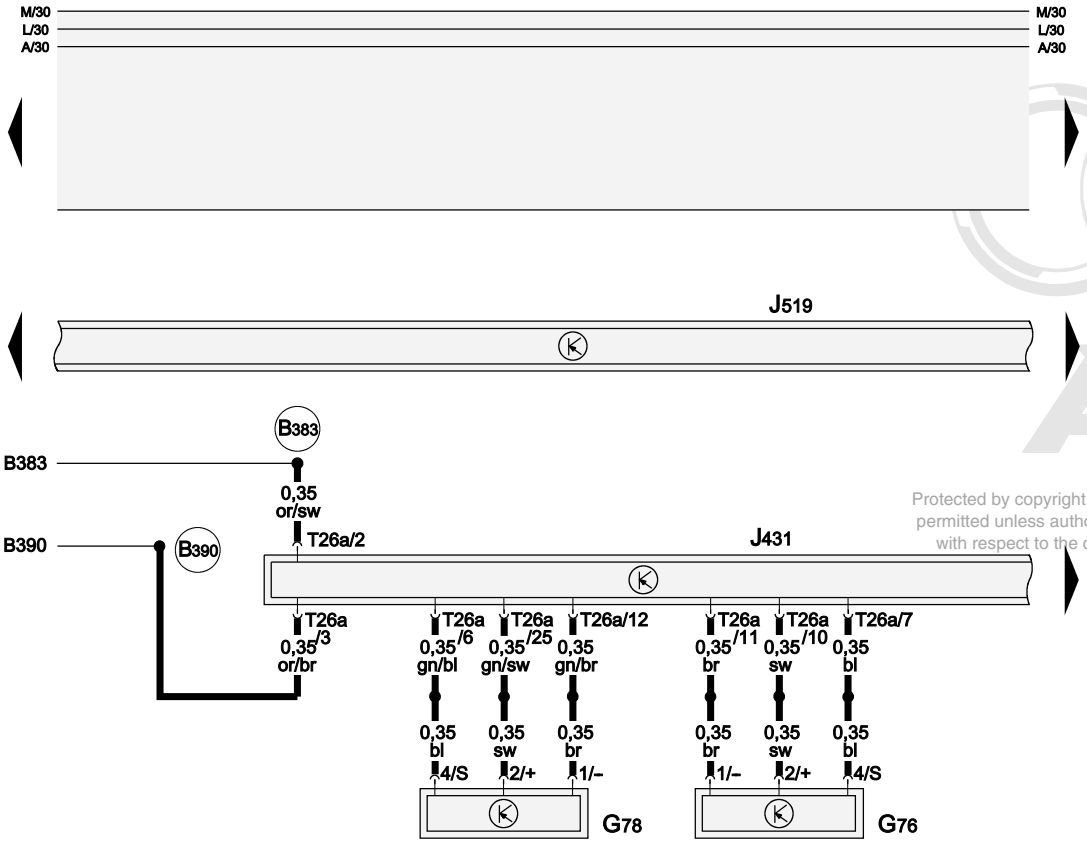


Control unit in dash panel insert

J285	Control unit in dash panel insert
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K209	Automatic control of lights warning lamp
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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gn	=	green
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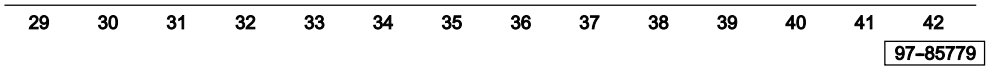
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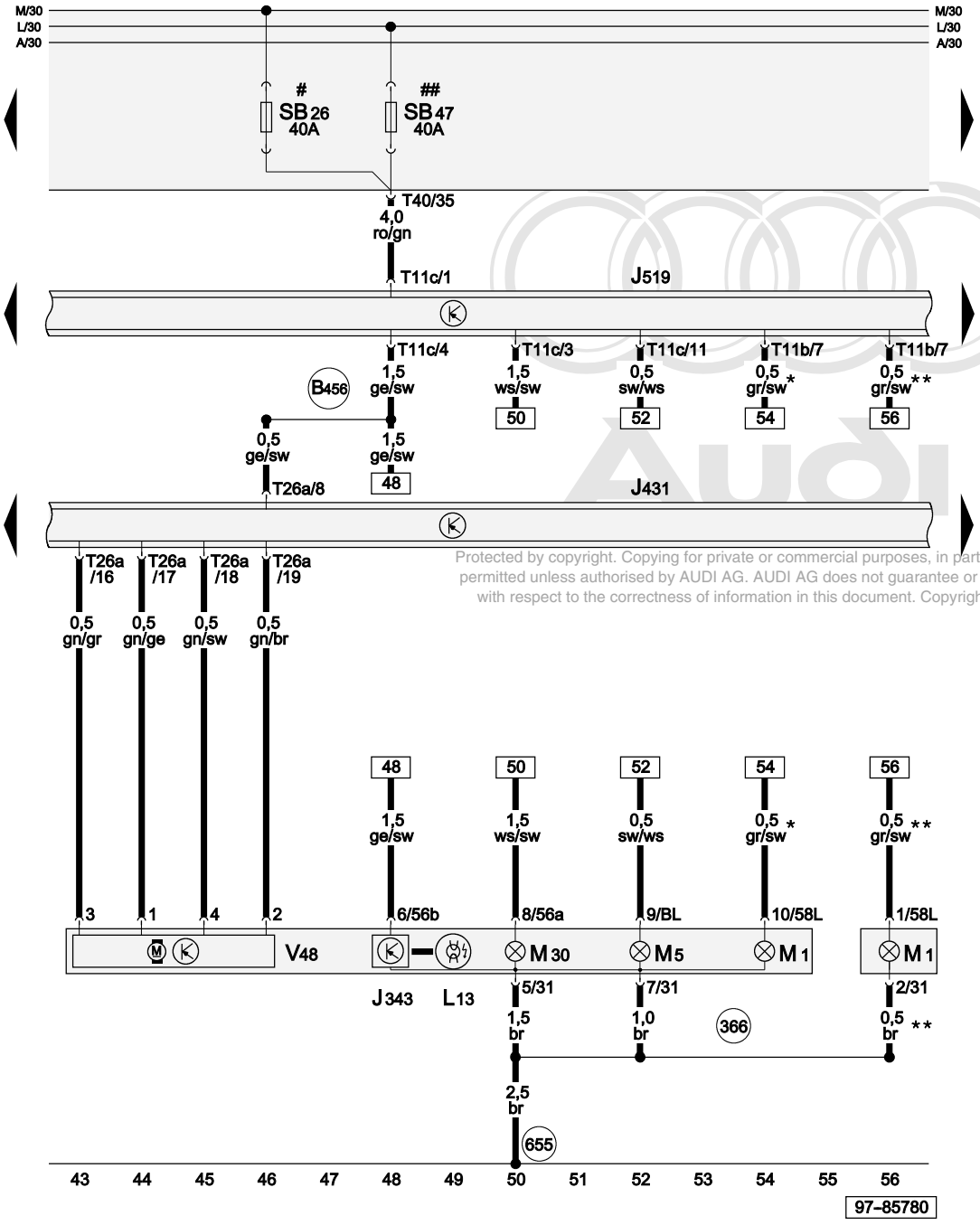
Vehicle inclination sender

G76	Rear left vehicle level sender
G78	Front left vehicle level sender
J431	Headlight range control, control unit
J519	Onboard supply control unit
T26a	26-pin connector, black (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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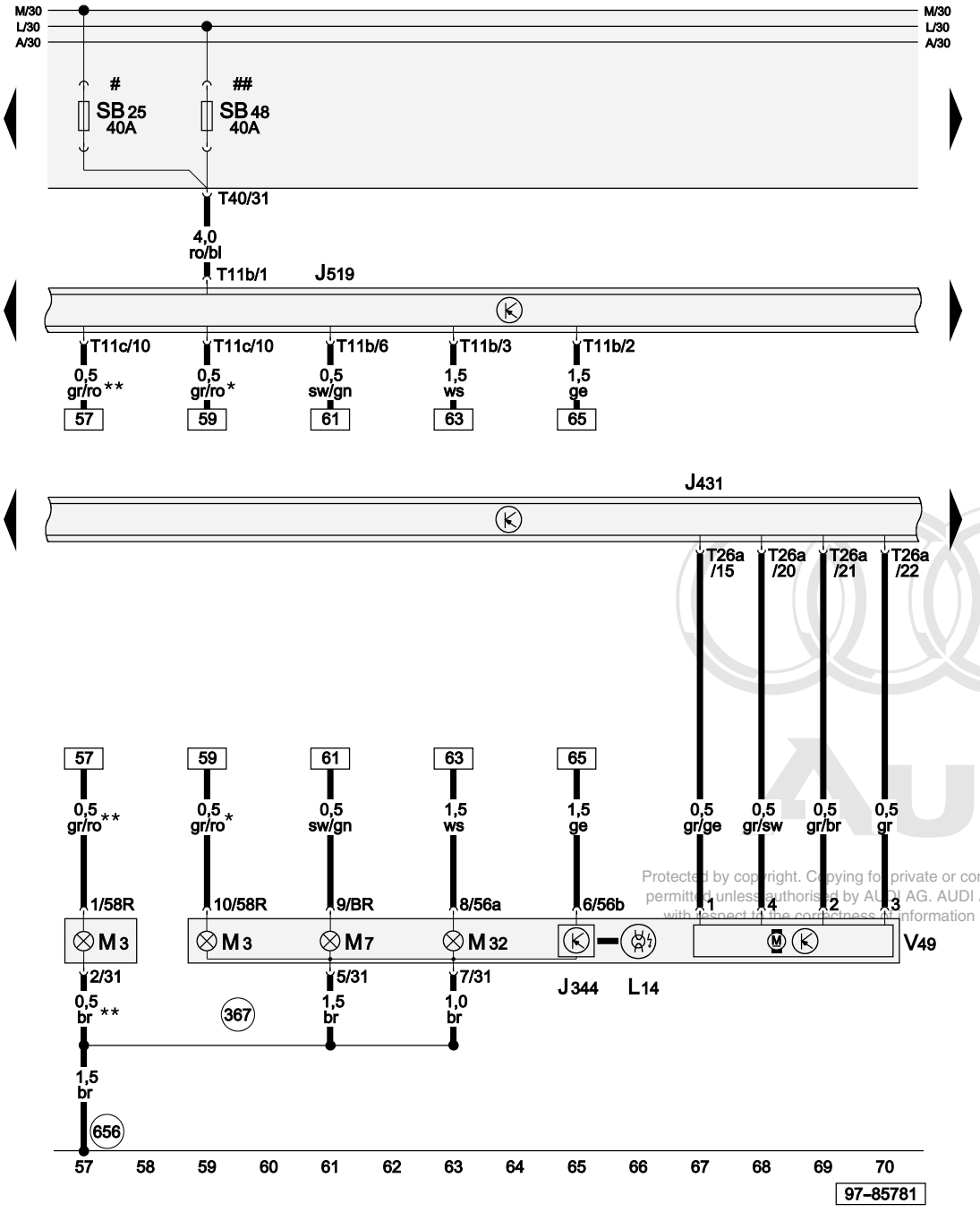


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Left headlight

J343	Left gas discharge light control unit
J431	Headlight range control, control unit
J519	Onboard supply control unit
L13	Left gas discharge (xenon) bulb
M1	Left side light bulb
M5	Front left turn signal bulb
M30	Left main beam bulb
SB26	Fuse 26 on fuse holder B
SB47	Fuse 47 on fuse holder B
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T26a	26-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V48	Left headlight range control motor
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B456	Connection (56b), in main wiring harness
*	for models with side light in headlight only
**	for models without side light in headlight only
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

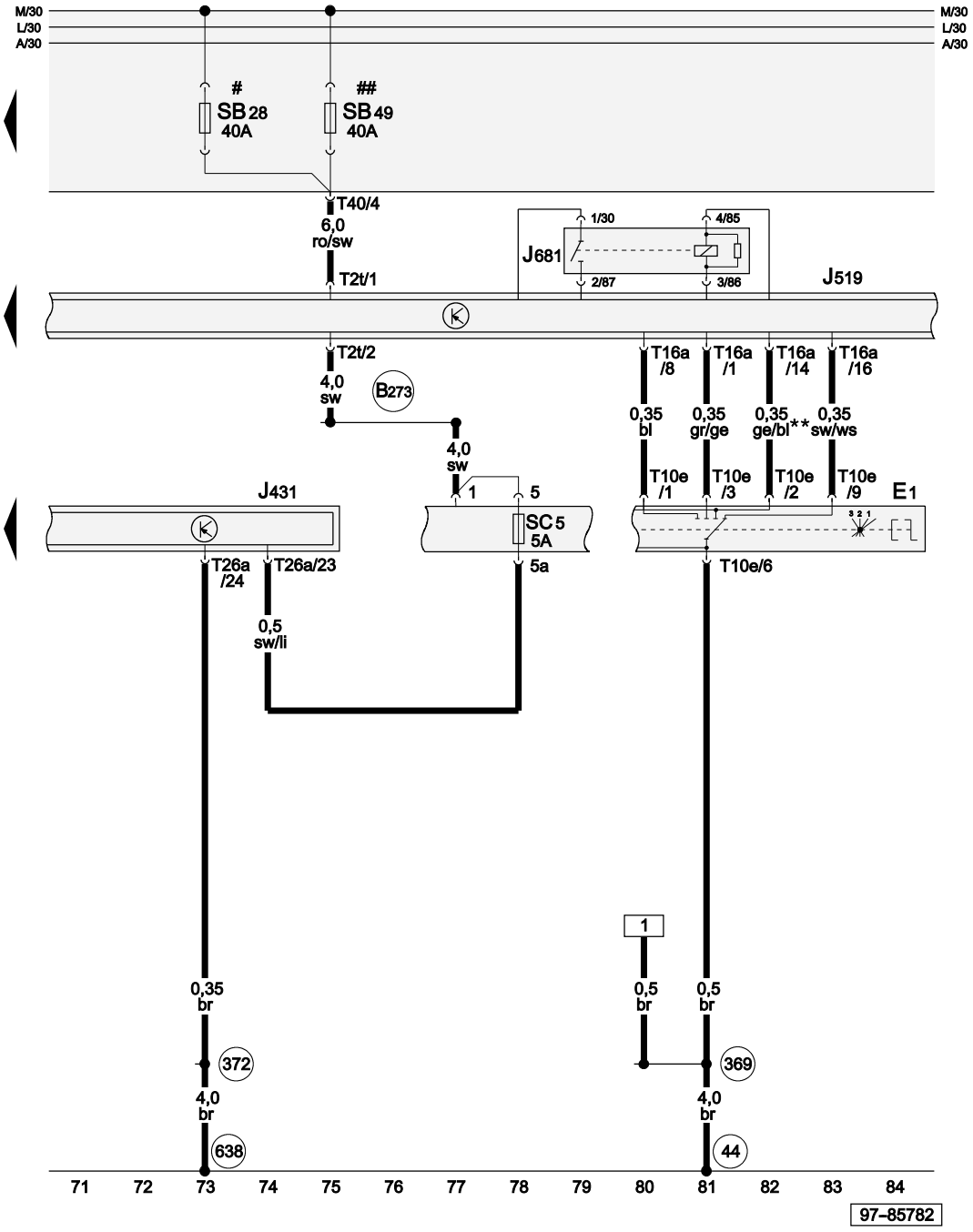


Right headlight

J344	Right gas discharge light control unit
J431	Headlight range control, control unit
J519	Onboard supply control unit
L14	Right gas discharge (xenon) bulb
M3	Right side light bulb
M7	Front right turn signal bulb
M32	Right main beam bulb
SB25	Fuse 25 on fuse holder B
SB48	Fuse 48 on fuse holder B
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T26a	26-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V49	Right headlight range control motor
(367)	Earth connection 2, in main wiring harness
(656)	Earth point, on right headlight
*	for models with side light in headlight only
**	for models without side light in headlight only
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws	=	white
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gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Light switch, terminal 15 voltage supply relay

E1	Light switch
J431	Headlight range control, control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC5	Fuse 5 on fuse holder C
T2t	2-pin connector, black (connector L)
T10e	10-pin connector, black (connector A)
T16a	16-pin connector, black (connector E)
T26a	26-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B273	Positive connection (15), in main wiring harness
**	for models with automatic headlight switching only
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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Headlight for gaseous discharge light (Xenon plus) and automatic headlight range control

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

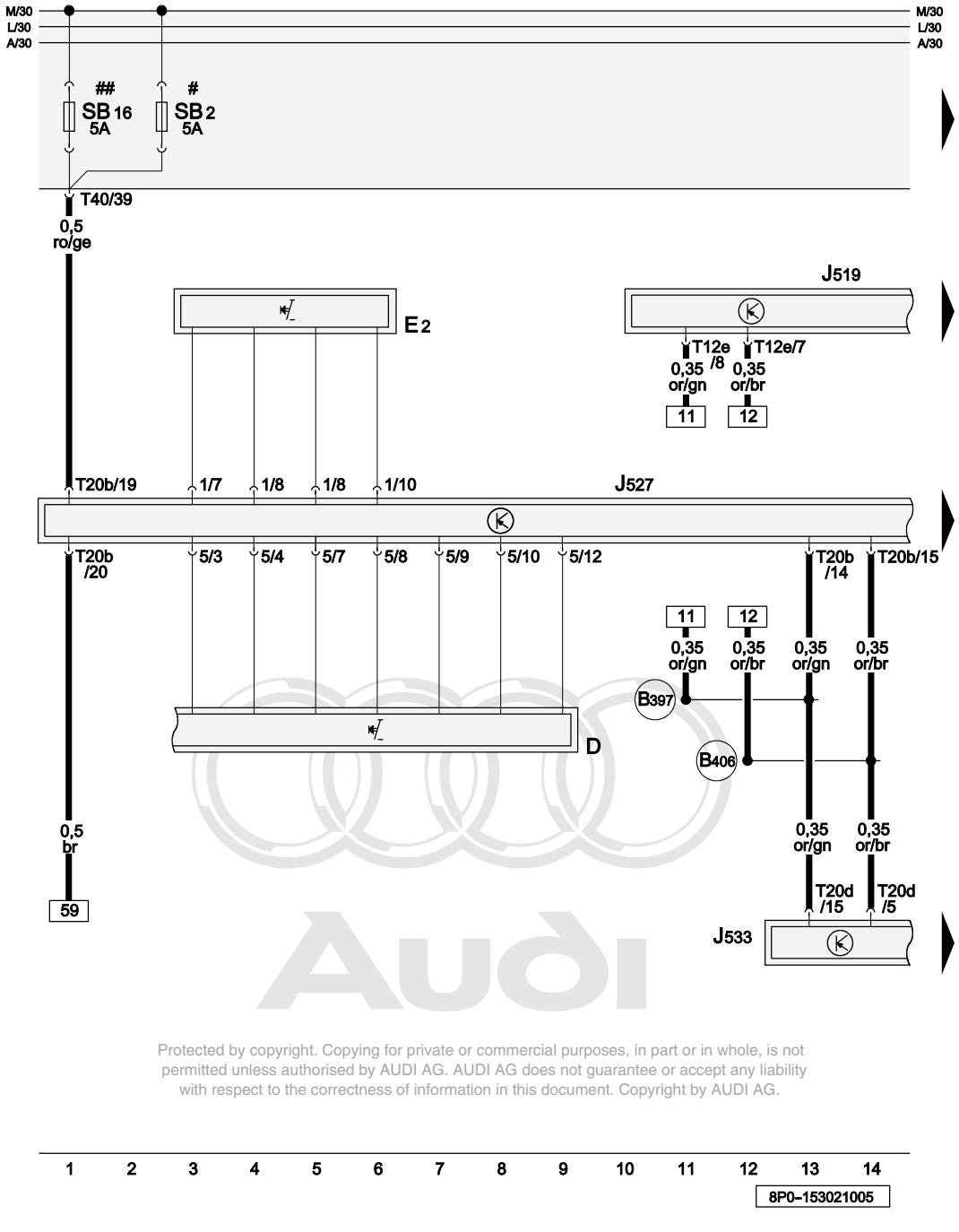
For information concerning

- Fault Finding Programs

⇒ guided fault finding

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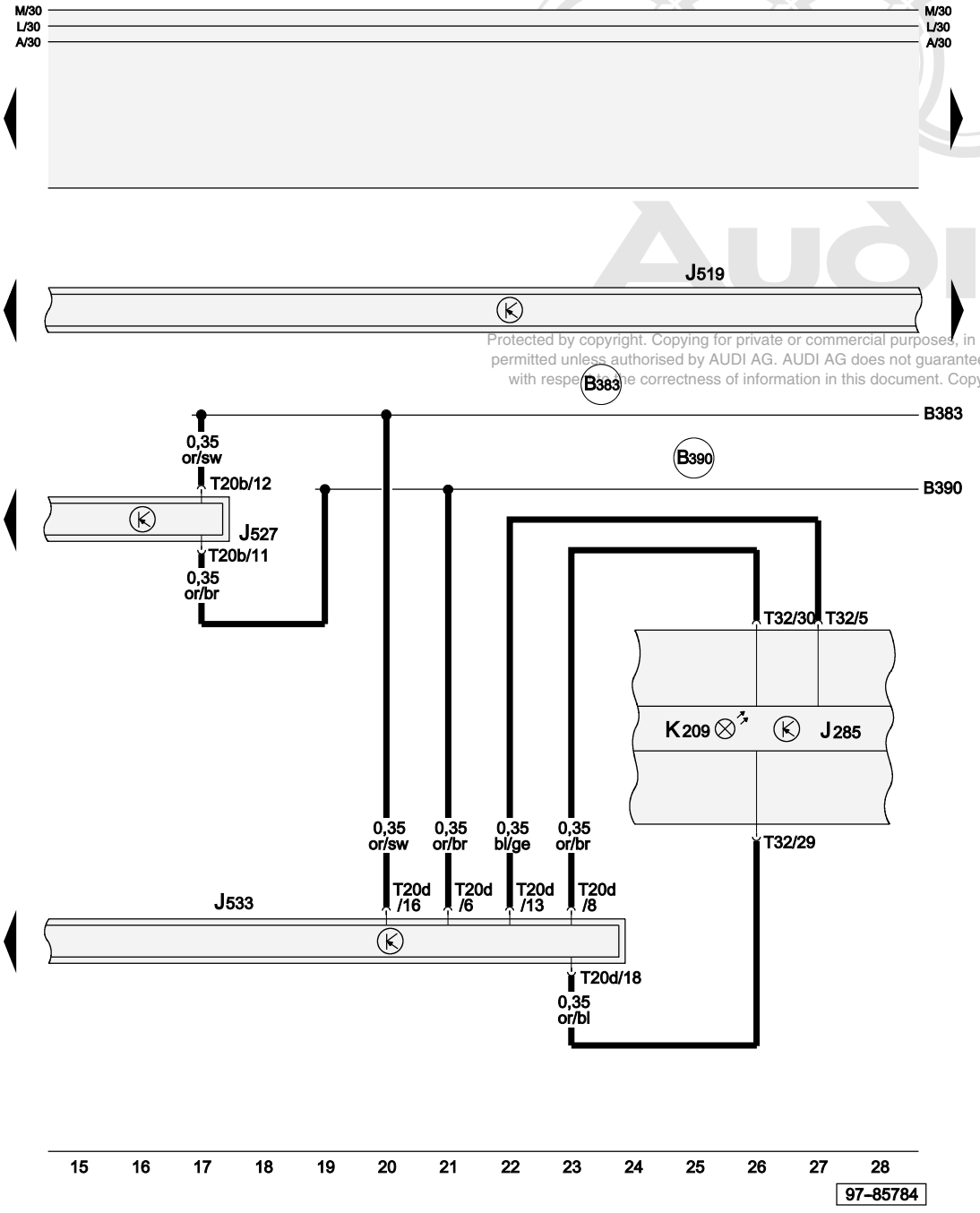


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Ignition/starter switch, turn signal switch

D	Ignition/starter switch
E2	Turn signal switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

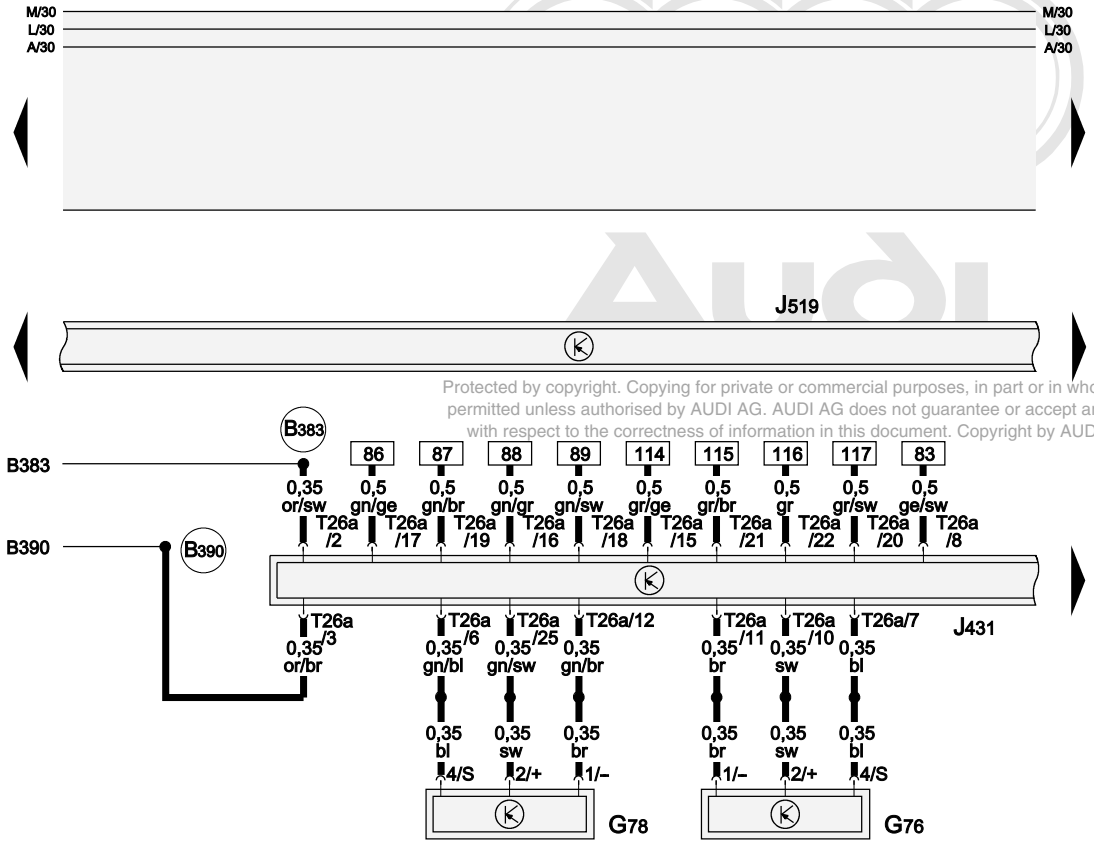


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Control unit in dash panel insert

J285	Control unit in dash panel insert
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K209	Automatic control of lights warning lamp
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



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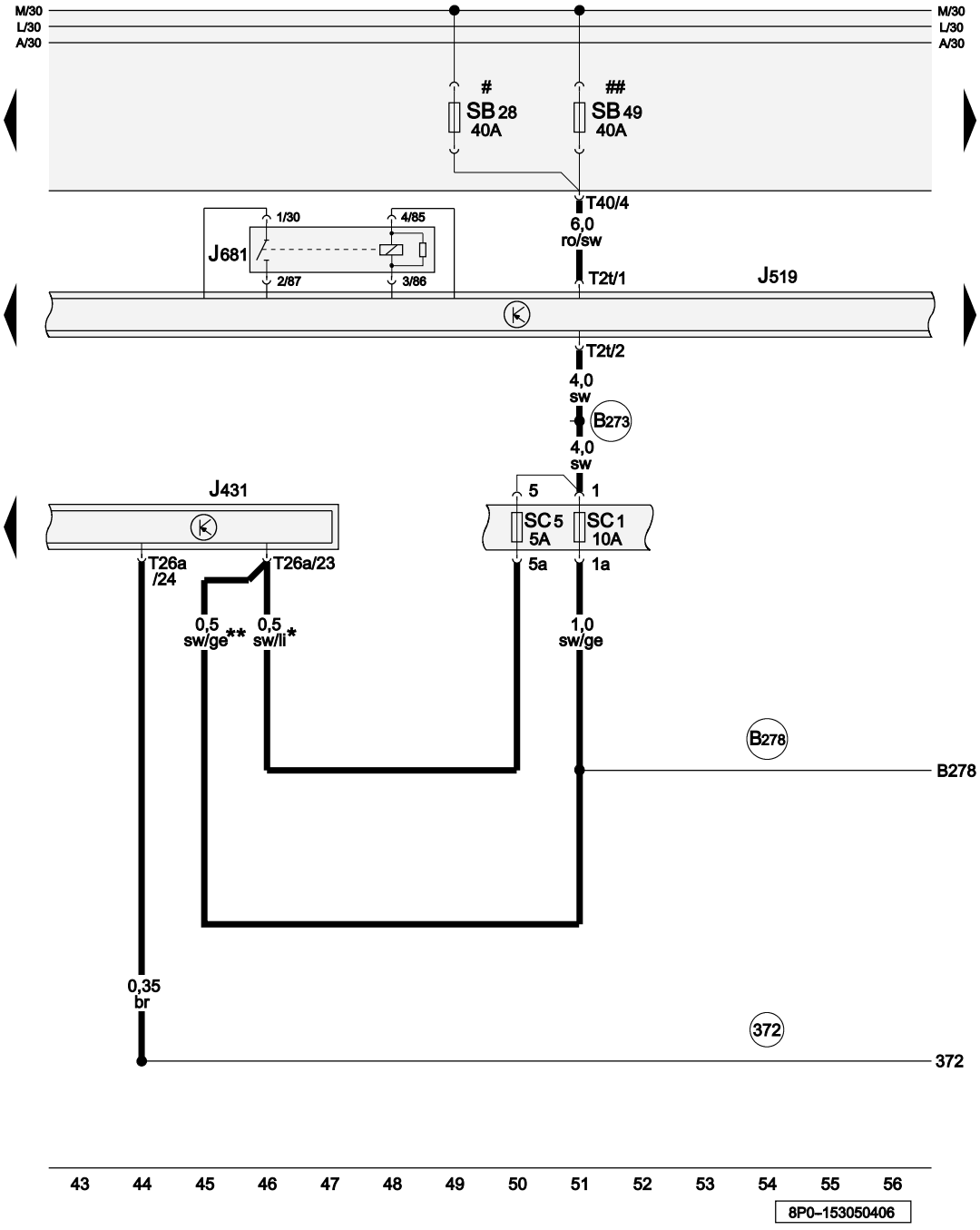
29 30 31 32 33 34 35 36 37 38 39 40 41 42

8P0-153041005

Vehicle inclination sender

G76	Rear left vehicle level sender
G78	Front left vehicle level sender
J431	Headlight range control, control unit
J519	Onboard supply control unit
T26a	26-pin connector, black (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
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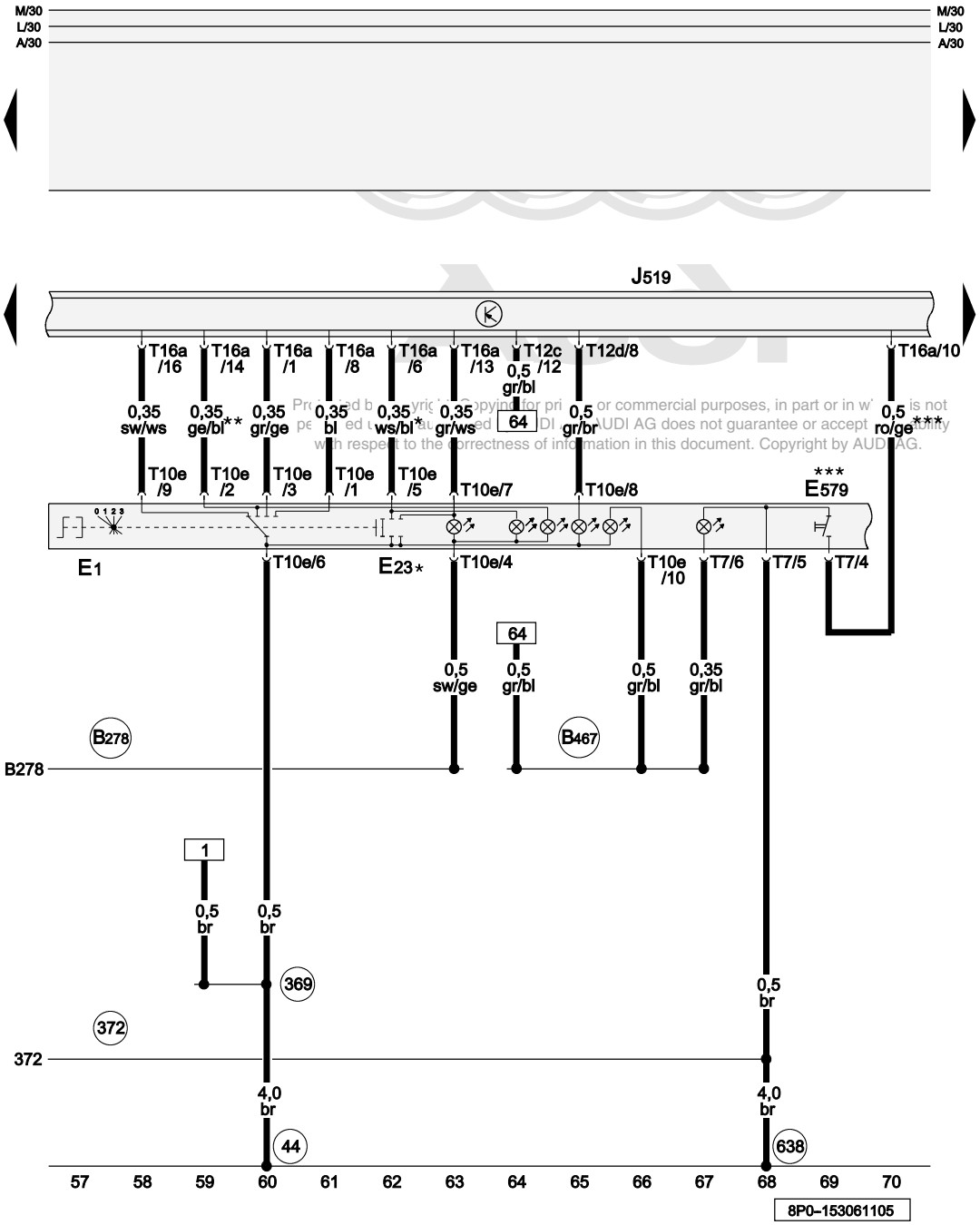


Terminal 15 voltage supply relay 2

J431	Headlight range control, control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC5	Fuse 5 on fuse holder C
T2t	2-pin connector, black (connector L)
T26a	26-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
372	Earth connection 7, in main wiring harness
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	is dropped, from model year 2006
**	applicable from model year 2007
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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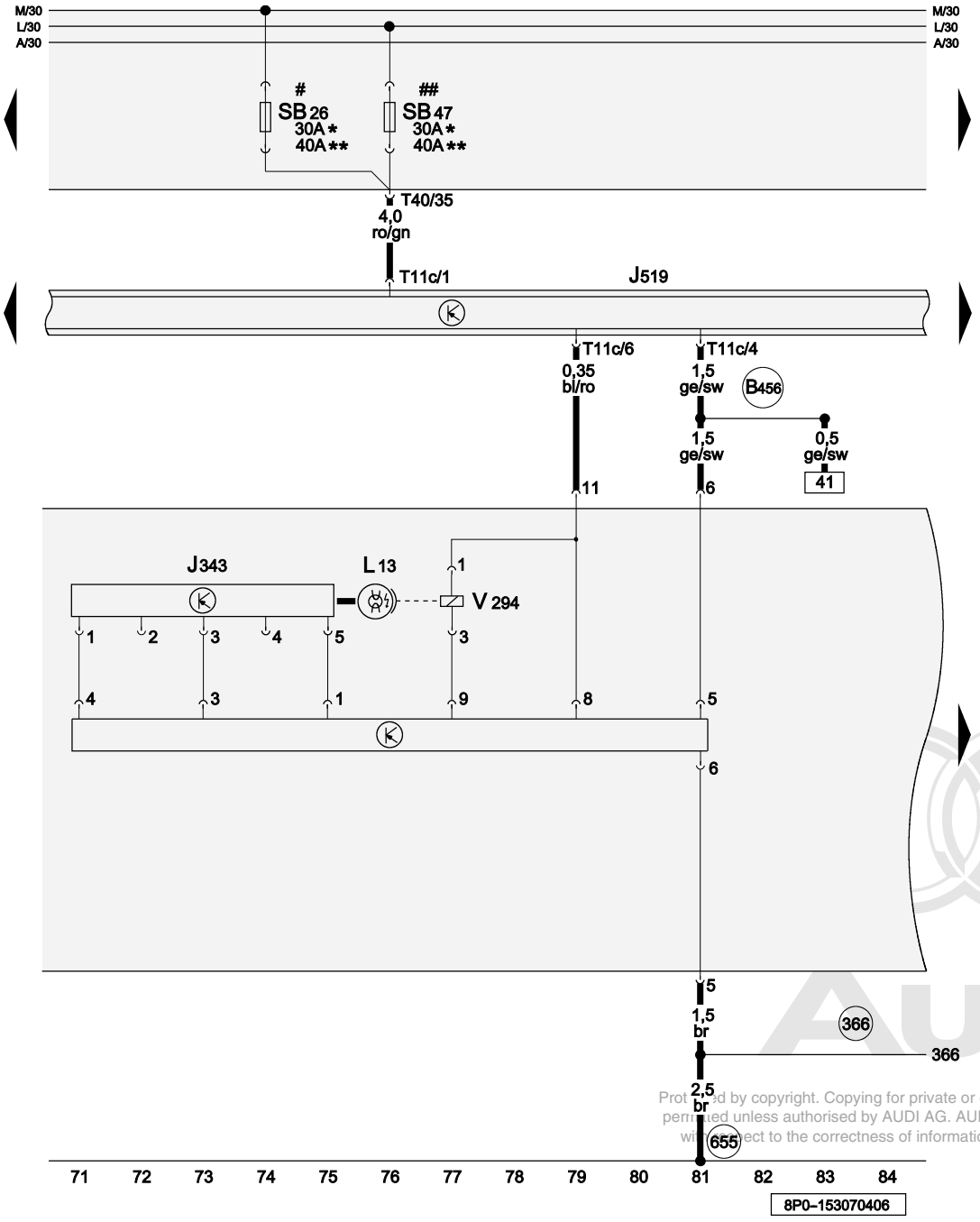


Light switch

E1	Light switch
E23	Front and rear fog light switch
E579	Switch for day driving lights switch off
J519	Onboard supply control unit
T7	7-pin connector, black (connector B)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
T16a	16-pin connector, black (connector E)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B278	Positive connection 2 (15a), in main wiring harness
B467	Connection 3, in main wiring harness
*	for models with front fog light only
**	for models with automatic headlight switching only
***	for models with day driving light only

ws	=	white
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ro	=	red
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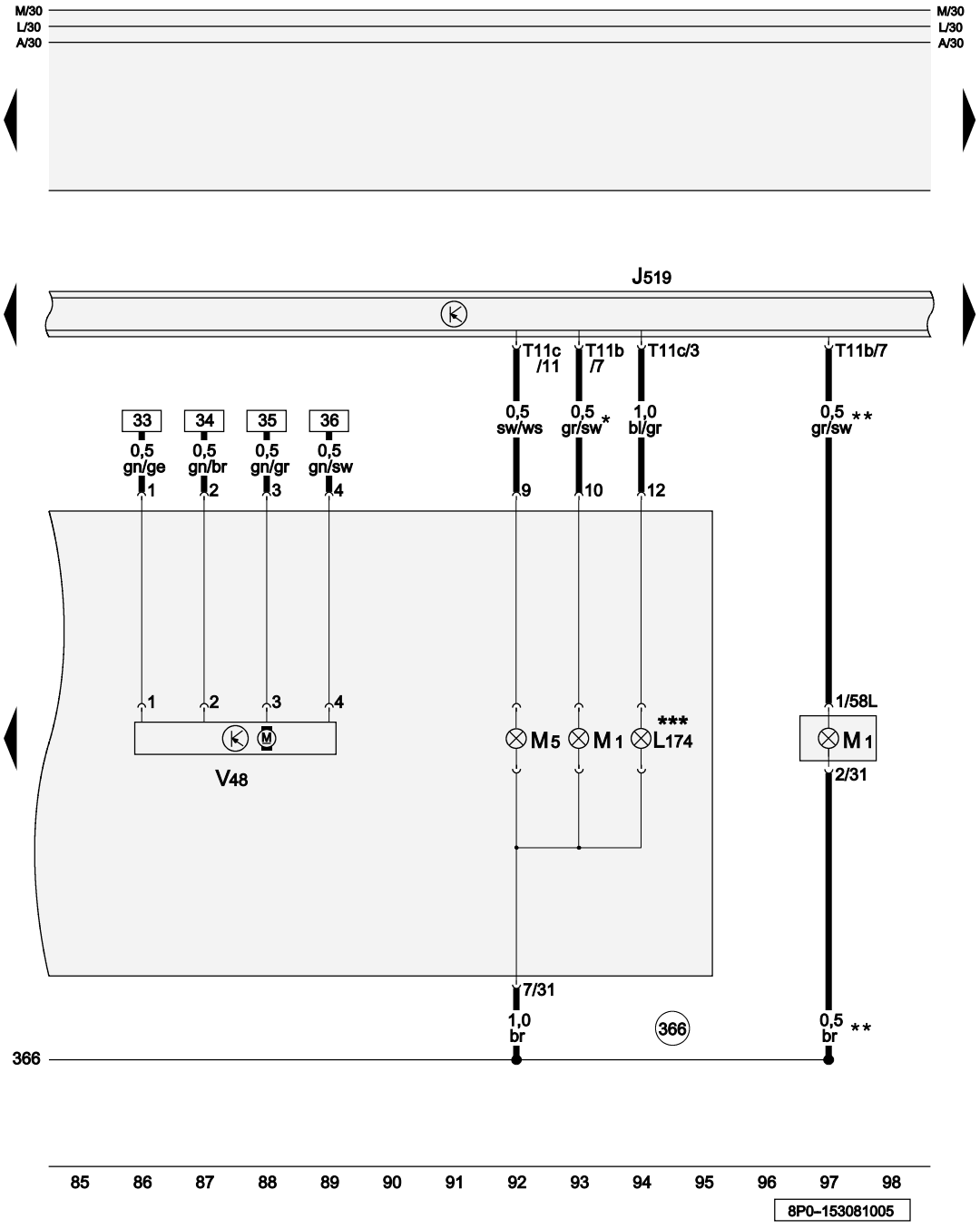


Left gas discharge (xenon) bulb

J343	Left gas discharge light control unit
J519	Onboard supply control unit
L13	Left gas discharge (xenon) bulb
SB26	Fuse 26 on fuse holder B
SB47	Fuse 47 on fuse holder B
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V294	Left dip beam screen motor
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
B456	Connection (56b), in main wiring harness
*	applicable from model year 2007
**	is dropped, from model year 2007
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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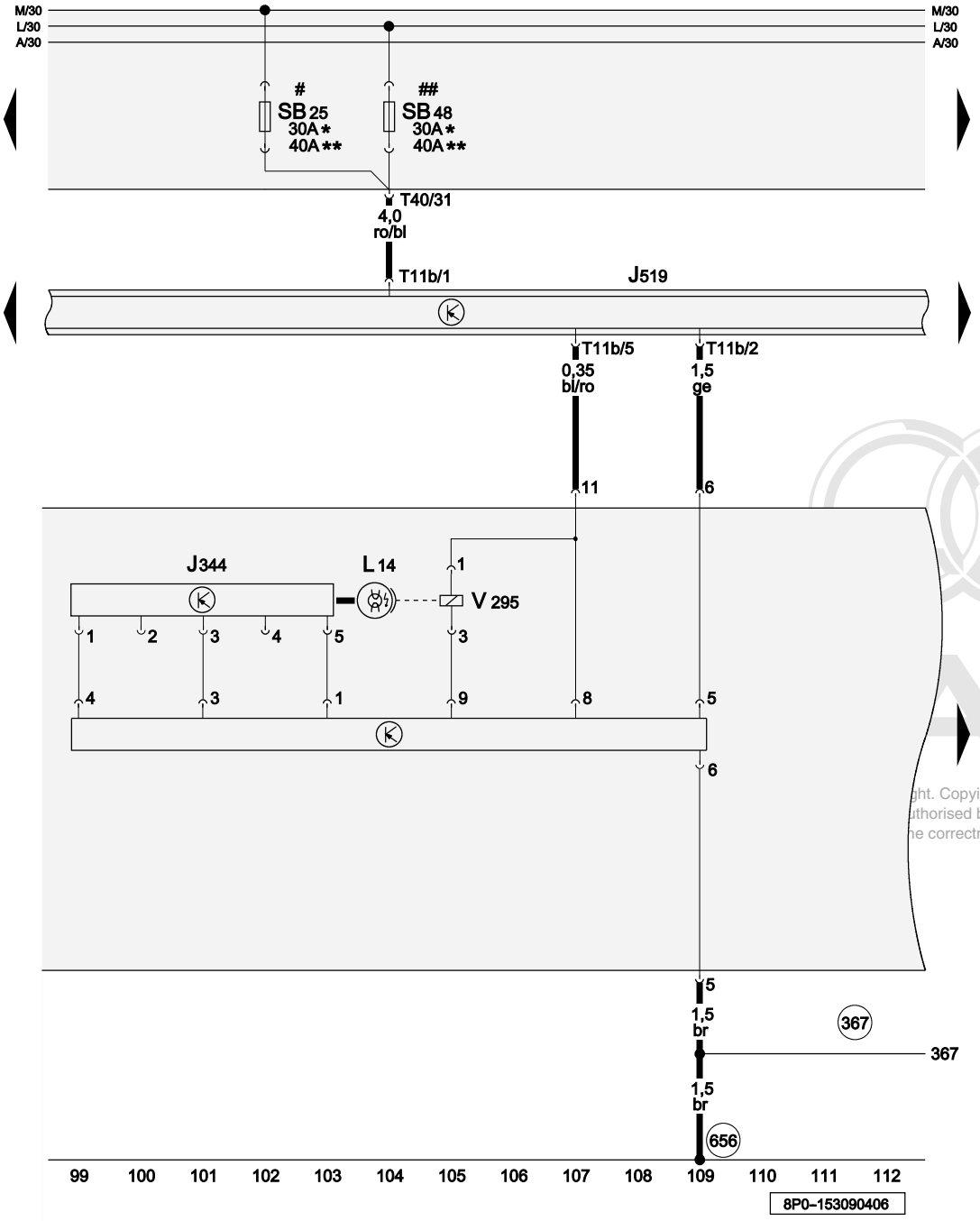


Left side light bulb, front left turn signal bulb, left day driving light bulb

J519	Onboard supply control unit
L174	Left day driving light bulb
M1	Left side light bulb
M5	Front left turn signal bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
V48	Left headlight range control motor
366	Earth connection 1, in main wiring harness
*	for models with side light in headlight only
**	for models without side light in headlight only
***	for models with day driving light only

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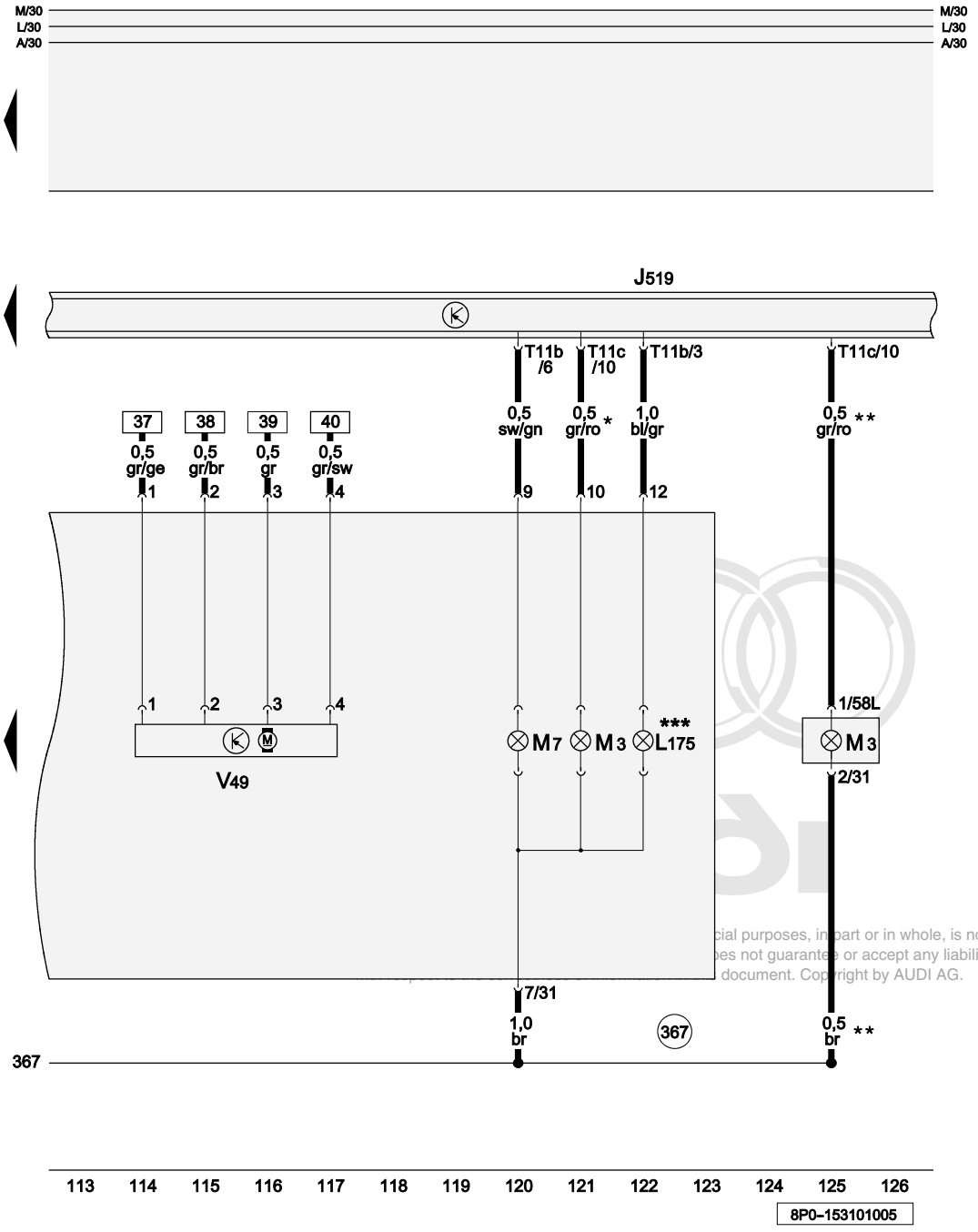


Right gas discharge (xenon) bulb

J344	Right gas discharge light control unit
J519	Onboard supply control unit
L14	Right gas discharge (xenon) bulb
SB25	Fuse 25 on fuse holder B
SB48	Fuse 48 on fuse holder B
T11b	11-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V295	Right dip beam screen motor
367	Earth connection 2, in main wiring harness
656	Earth point, on right headlight
*	applicable from model year 2007
**	is dropped, from model year 2007
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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Right side light bulb, front right turn signal bulb, right day driving light bulb

J519	Onboard supply control unit
L175	Right day driving light bulb
M3	Right side light bulb
M7	Front right turn signal bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
V49	Right headlight range control motor
367	Earth connection 2, in main wiring harness
*	for models with side light in headlight only
**	for models without side light in headlight only
***	for models with day driving light only

Headlight for gaseous discharge light (Xenon, plus), dynamic cornering lights and automatic headlight range control

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

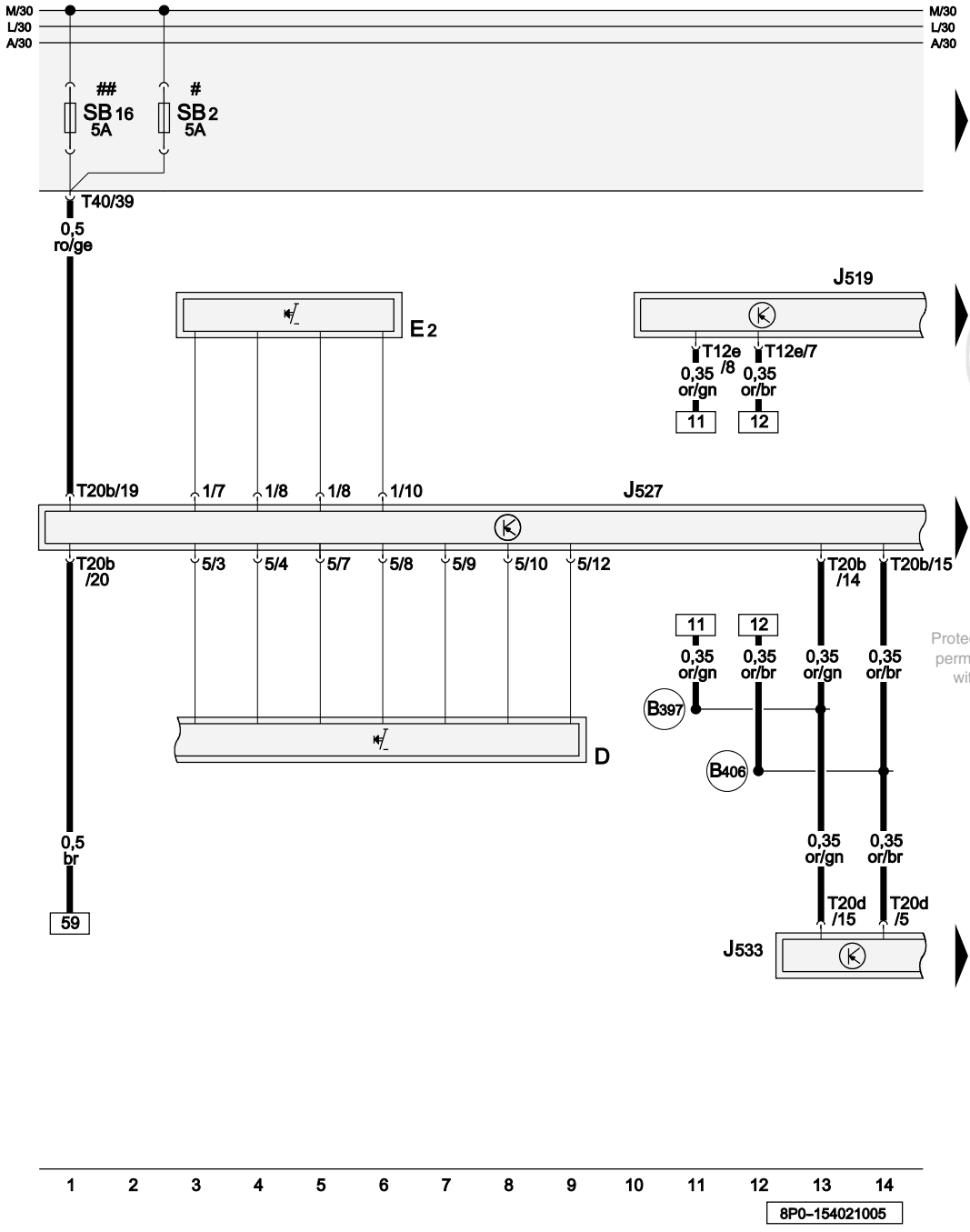
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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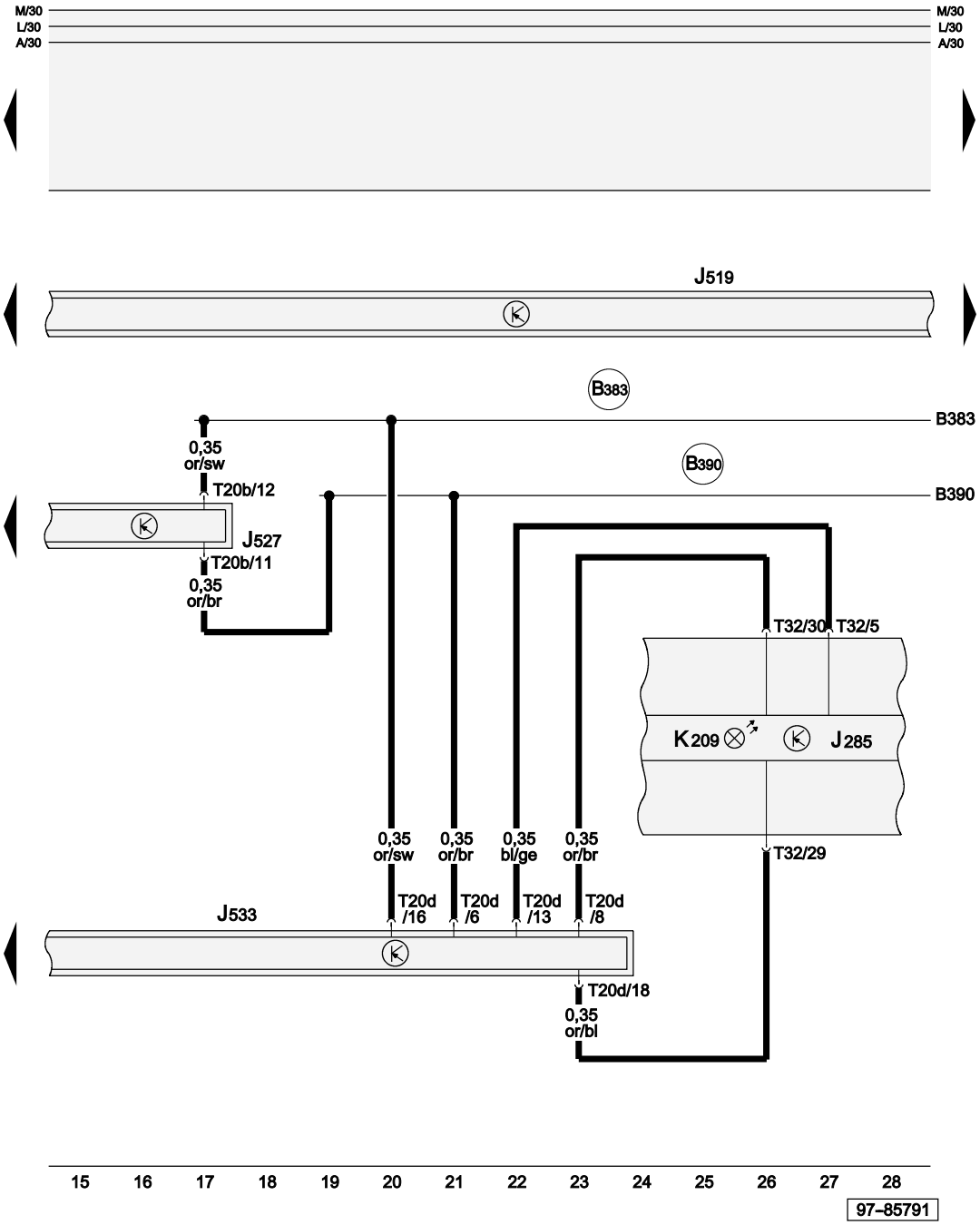


Ignition/starter switch, turn signal switch

D	Ignition/starter switch
E2	Turn signal switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB2	Fuse 2 on fuse holder B
SB16	Fuse 16 on fuse holder B
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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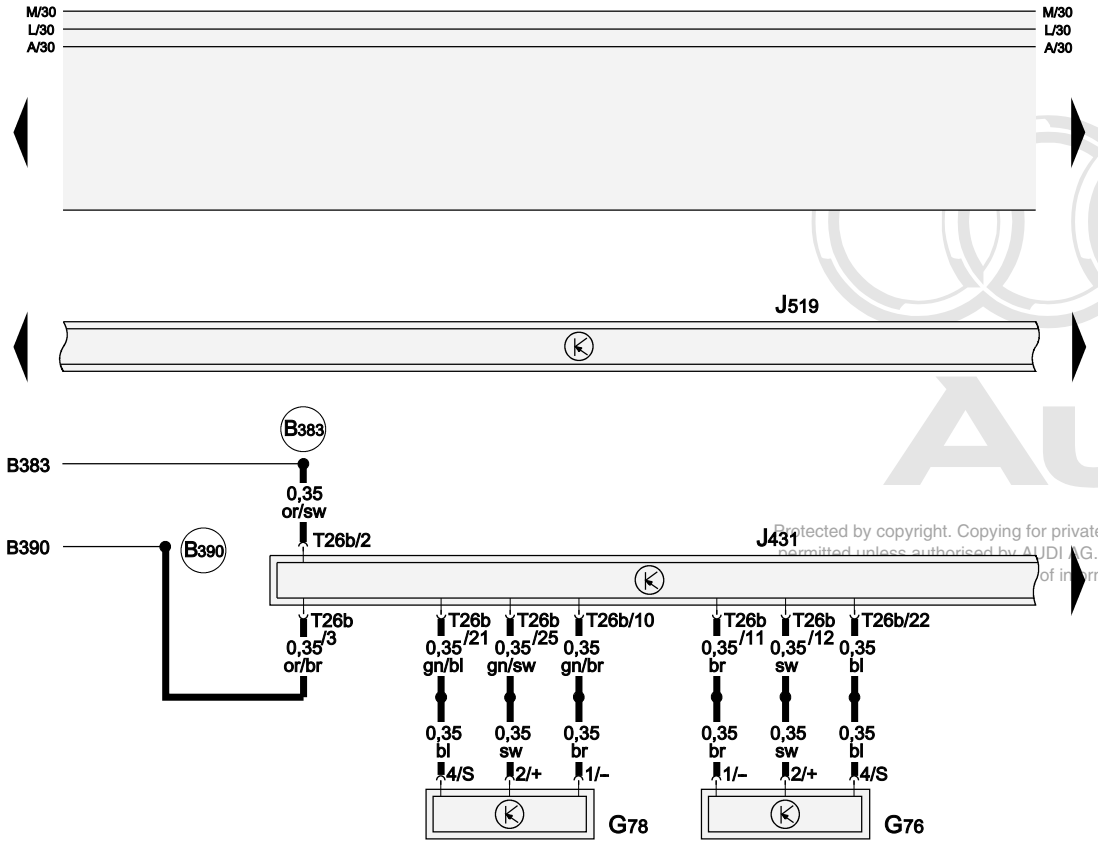


Control unit in dash panel insert

J285	Control unit in dash panel insert
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
K209	Automatic control of lights warning lamp
T20b	20-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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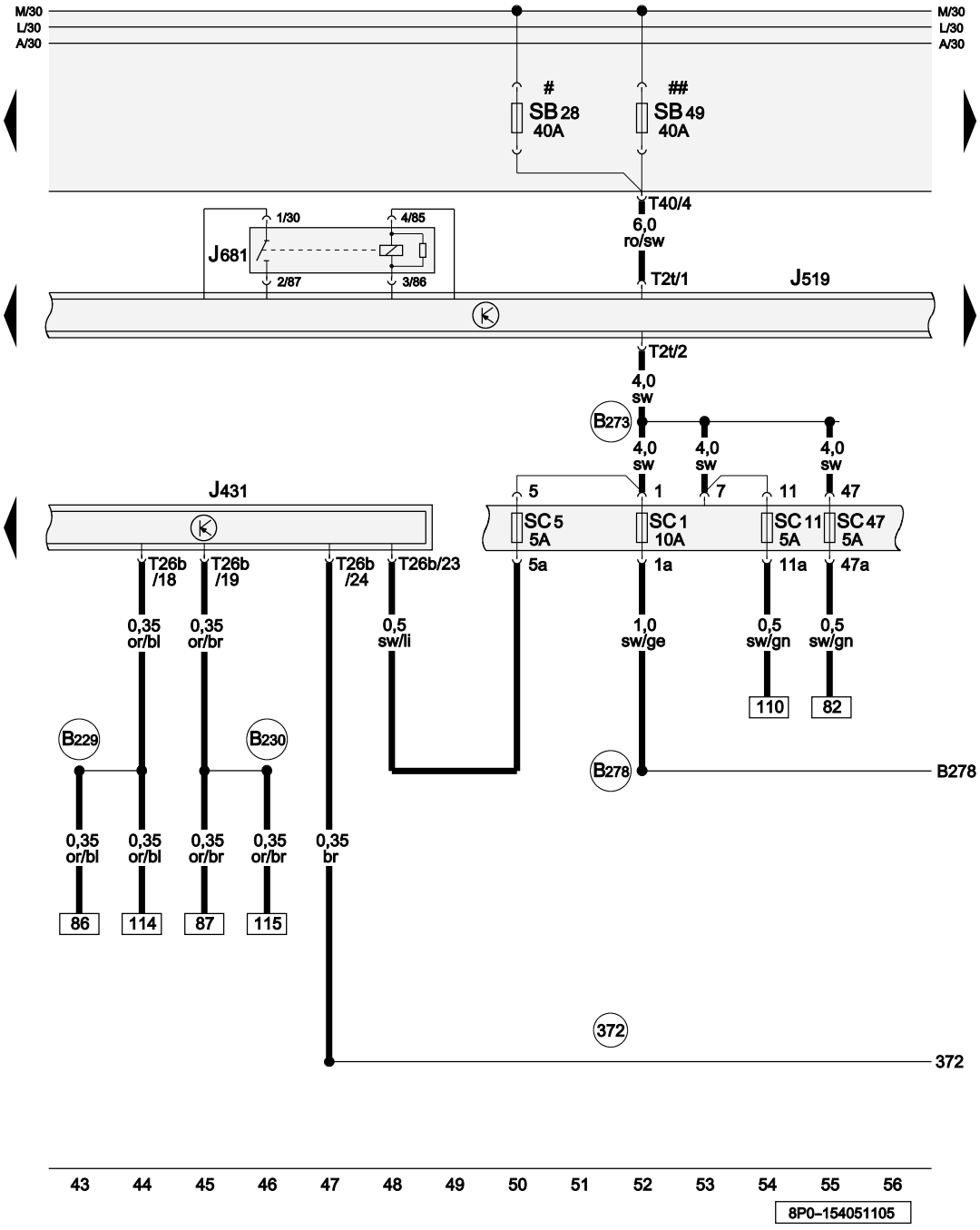


Vehicle inclination sender

G76	Rear left vehicle level sender
G78	Front left vehicle level sender
J431	Headlight range control, control unit
J519	Onboard supply control unit
T26b	26-pin connector, blue (connector A)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness

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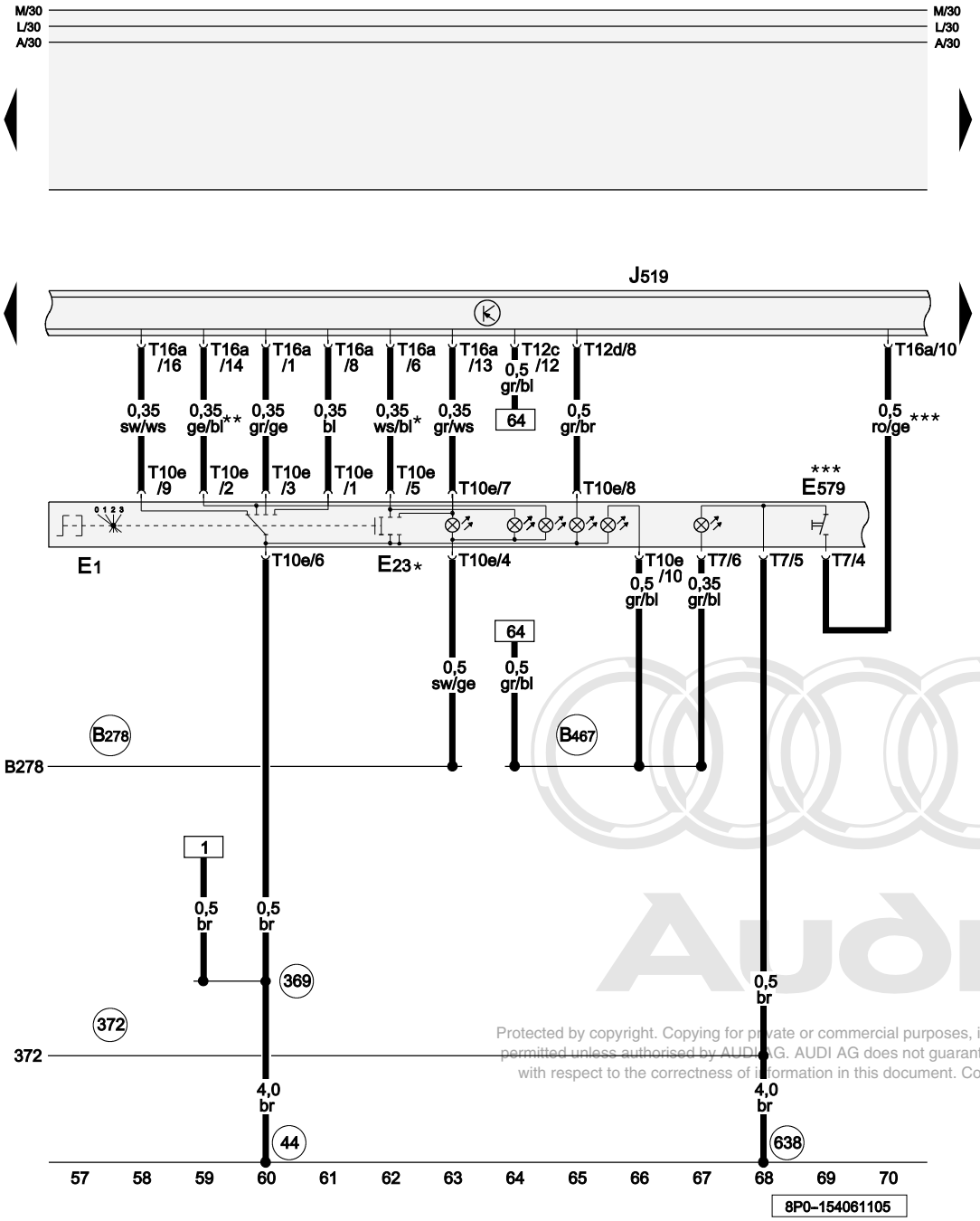


Terminal 15 voltage supply relay 2

J431	Headlight range control, control unit
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC5	Fuse 5 on fuse holder C
SC11	Fuse 11 on fuse holder C
SC47	Fuse 47 on fuse holder C
T2t	2-pin connector, black (connector L)
T26b	26-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
372	Earth connection 7, in main wiring harness
B229	Connection (high bus), in interior wiring harness
B230	Connection (low bus), in interior wiring harness
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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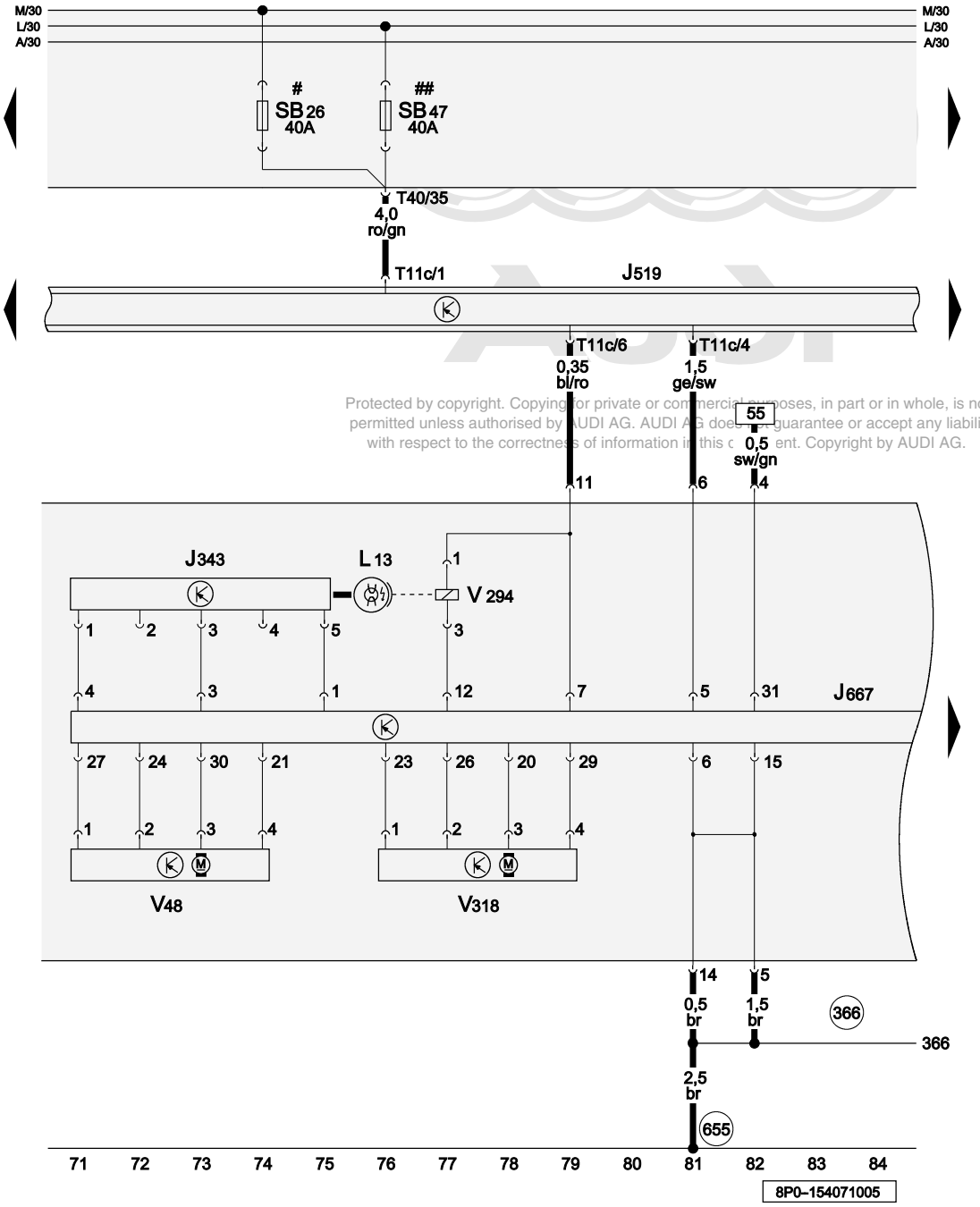


Light switch

E1	Light switch
E23	Front and rear fog light switch
E579	Switch for day driving lights switch off
J519	Onboard supply control unit
T7	7-pin connector, black (connector B)
T10e	10-pin connector, black (connector A)
T12c	12-pin connector, black (connector B)
T12d	12-pin connector, brown (connector C)
T16a	16-pin connector, black (connector E)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
B278	Positive connection 2 (15a), in main wiring harness
B467	Connection 3, in main wiring harness
*	for models with front fog light only
**	for models with automatic headlight switching only
***	for models with day driving light only

ws	=	white
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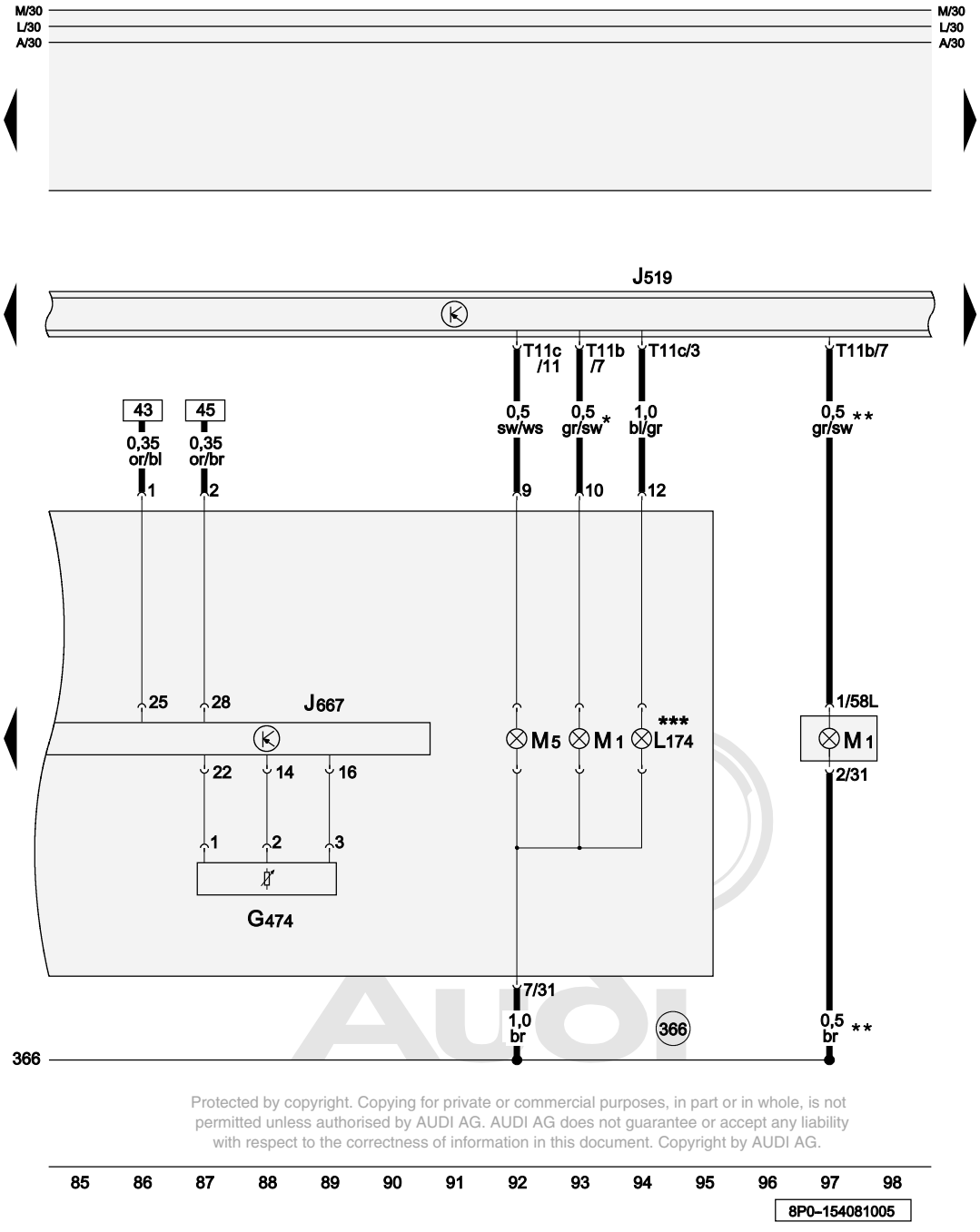


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or = orange
rs = pink

Left gas discharge (xenon) bulb

J343	Left gas discharge light control unit
J519	Onboard supply control unit
J667	Power output module for left headlight
L13	Left gas discharge (xenon) bulb
V294	Left dip beam screen motor
SB26	Fuse 26 on fuse holder B
SB47	Fuse 47 on fuse holder B
T11c	11-pin connector, brown (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V48	Left headlight range control motor
V318	Left dynamic cornering light control motor
366	Earth connection 1, in main wiring harness
655	Earth point, on left headlight
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations



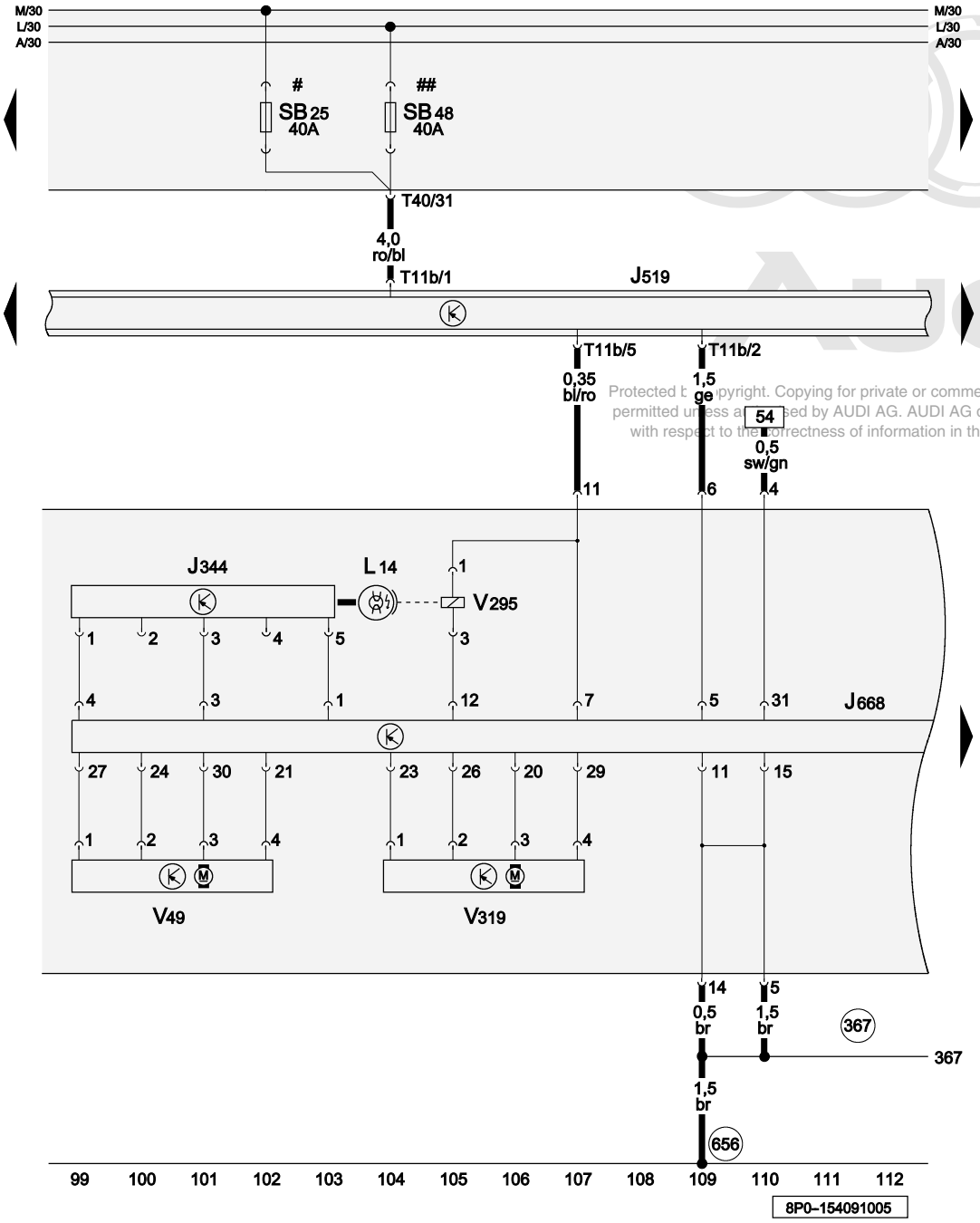
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Left side light bulb, front left turn signal bulb, left day driving light bulb

G474	Left swivel module position sensor
J519	Onboard supply control unit
J667	Power output module for left headlight
L174	Left day driving light bulb
M1	Left side light bulb
M5	Front left turn signal bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
366	Earth connection 1, in main wiring harness

* for models with side light in headlight only
** for models without side light in headlight only
*** for models with day driving light only

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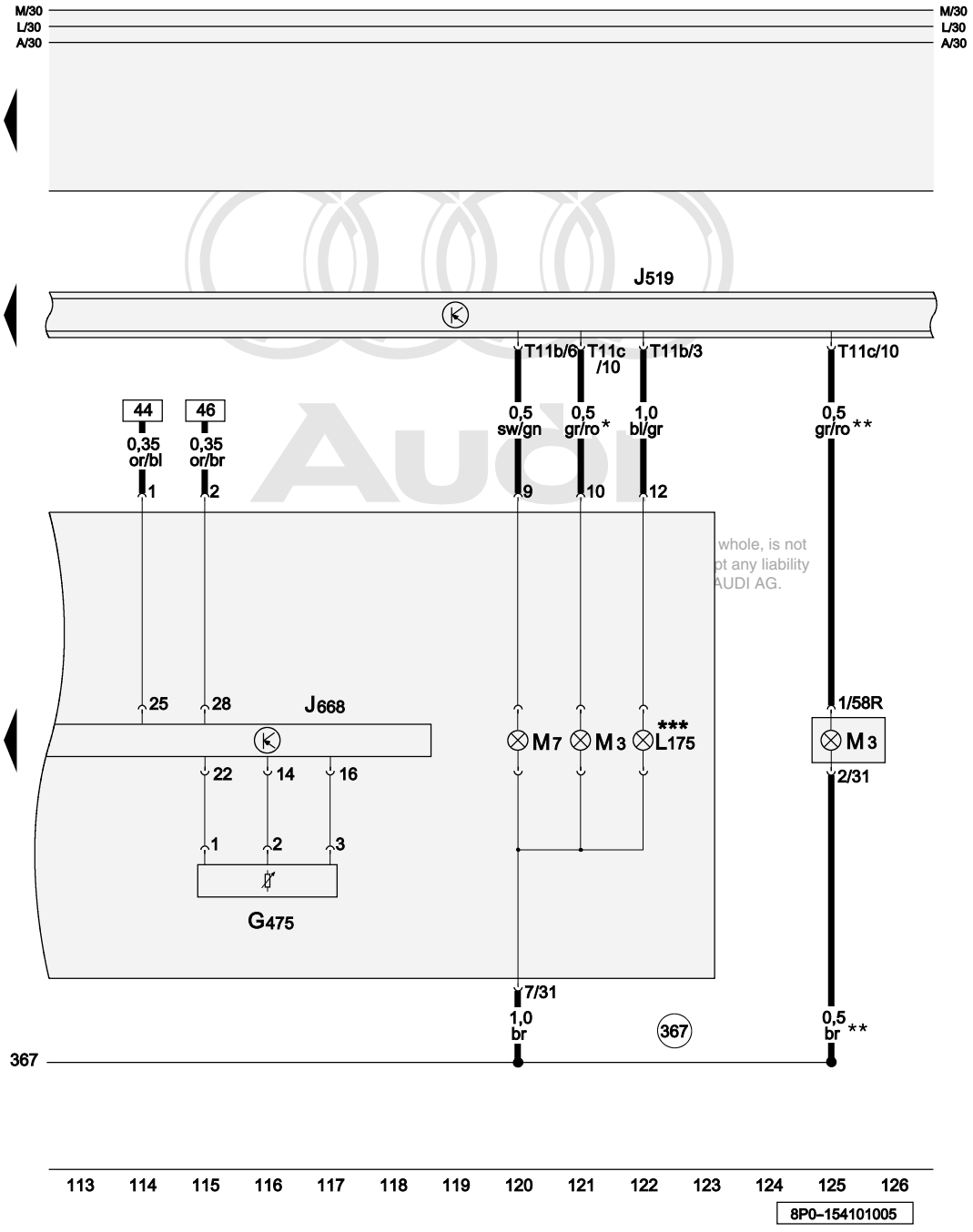


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Right gas discharge (xenon) bulb

J344	Right gas discharge light control unit
J519	Onboard supply control unit
J668	Power output module for right headlight
L14	Right gas discharge (xenon) bulb
SB25	Fuse 25 on fuse holder B
SB48	Fuse 48 on fuse holder B
T11b	11-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V49	Right headlight range control motor
V295	Right dip beam screen motor
V319	Right dynamic cornering light control motor
(367)	Earth connection 2, in main wiring harness
(656)	Earth point, on right headlight
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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or	=	orange
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Right side light bulb, front right turn signal bulb, right day driving light bulb

G475	Right swivel module position sensor
J519	Onboard supply control unit
J668	Power output module for right headlight
L175	Right day driving light bulb
M3	Right side light bulb
M7	Front right turn signal bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
367	Earth connection 2, in main wiring harness
*	for models with side light in headlight only
**	for models without side light in headlight only
***	for models with day driving light only

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Data bus wires (CAN bus, LIN bus)

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

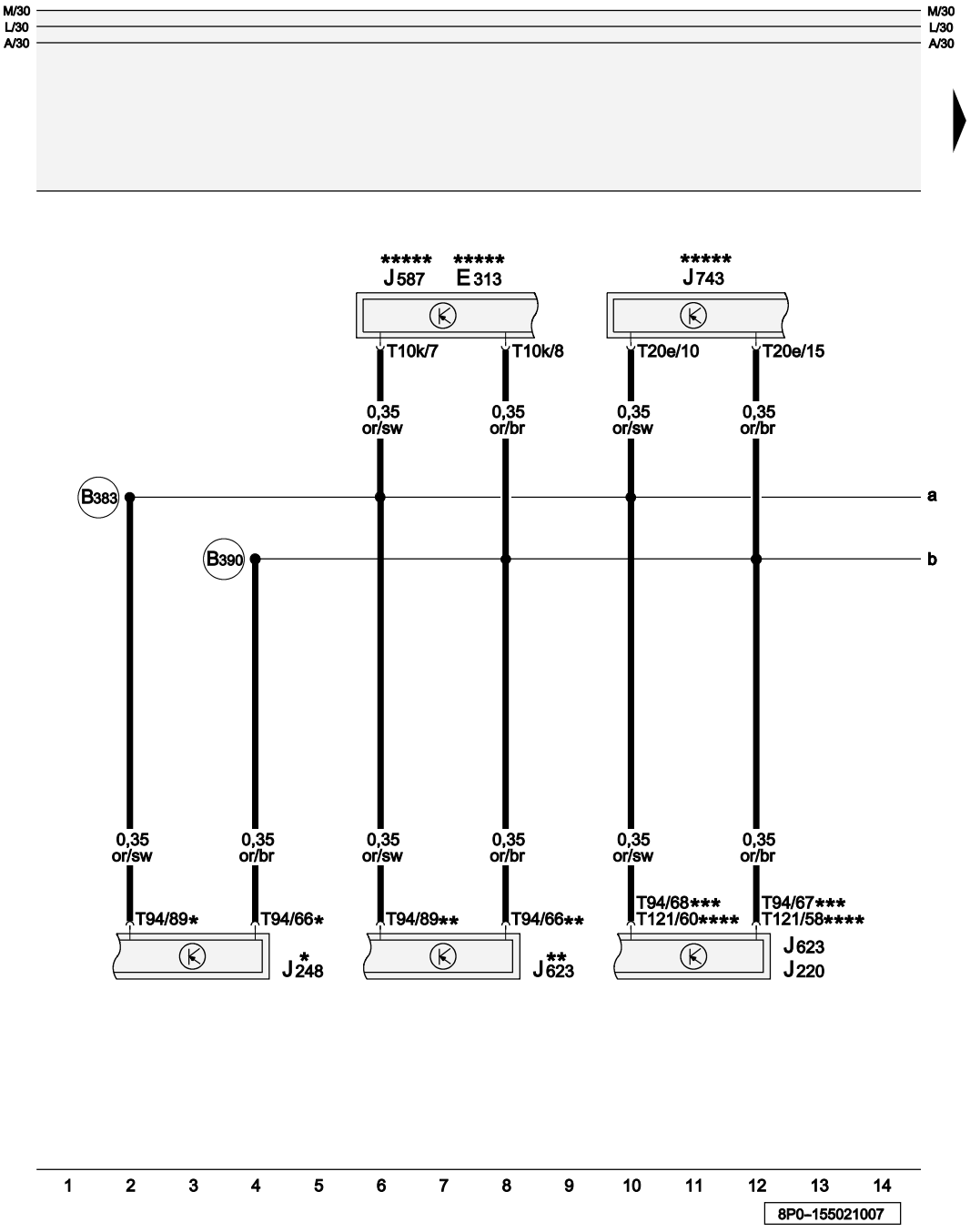
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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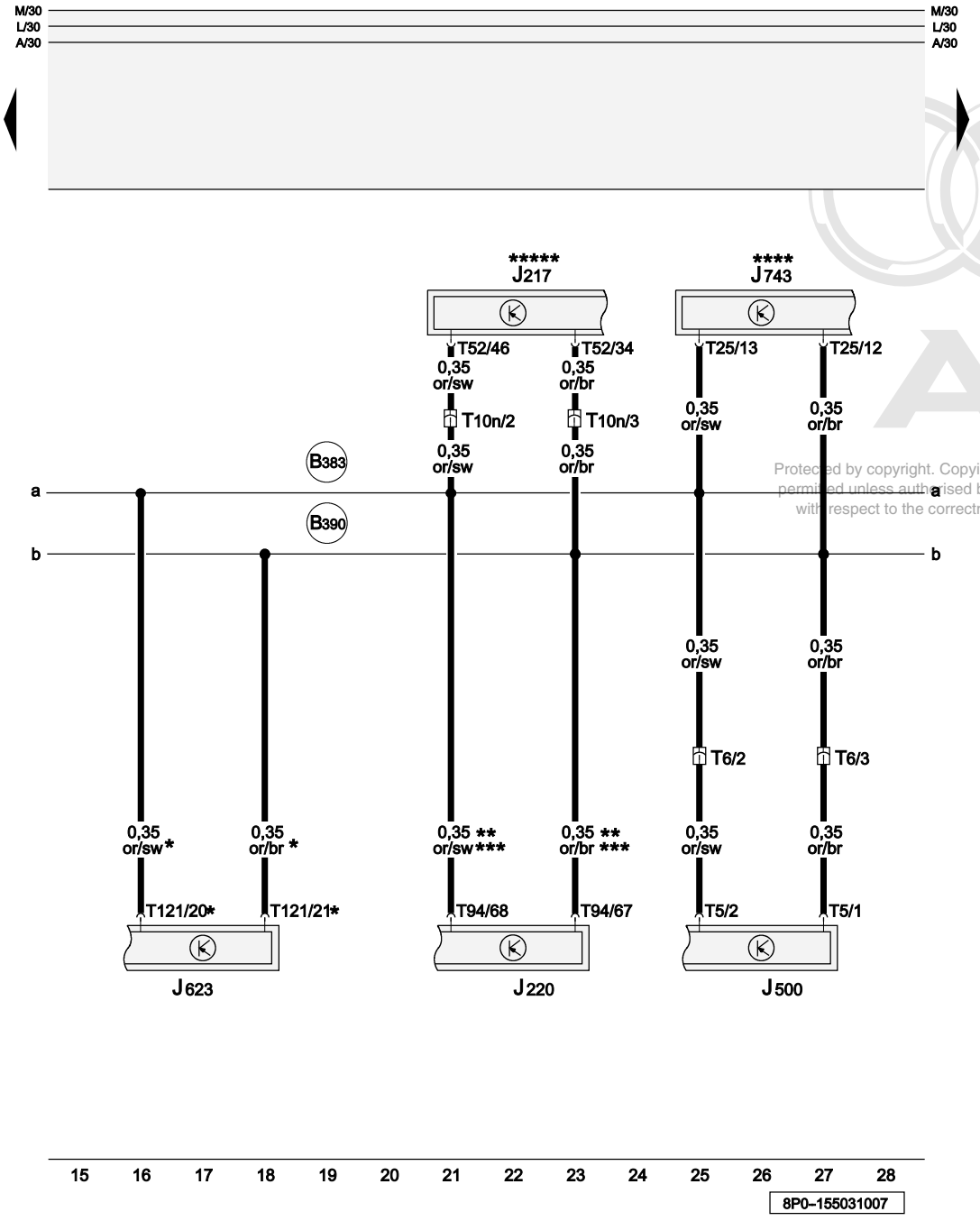


Drive train CAN bus

E313	Selector lever
J220	Motronic control unit
J248	Diesel direct injection system control unit
J587	Selector lever sensors control unit
J623	Engine control unit
J743	Mechatronics for direct shift gearbox
T10k	10-pin connector, black (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	for models with engine codes AZV, BKD, BKC, BXE only
**	for models with engine codes BMM, BMN, BUY, BLS only
***	for models with engine codes AXX, BPY, BWA, BPT, BPU, BYT, CAXC, CAWB, BZB, CCTA, CBFA only
****	for models with engine codes BMJ, BUB only
*****	for models with direct shift gearbox (02E) only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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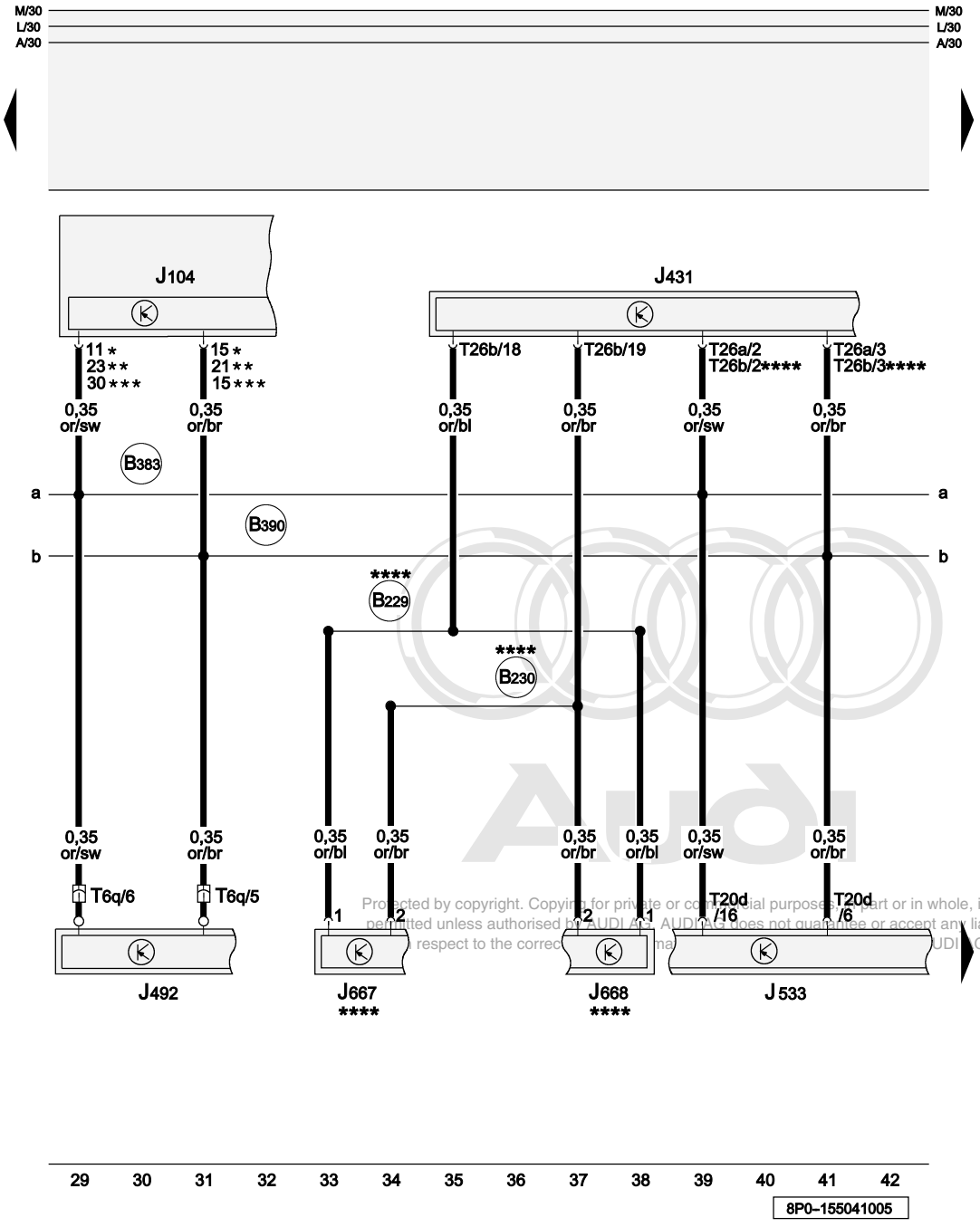


Drive train CAN bus

J217	Automatic gearbox control unit
J220	Motronic control unit
J500	Power steering control unit
J623	Engine control unit
J743	Mechatronic unit for direct shift gearbox
T5	5-pin connector, white (connector C)
T6	6-pin connector, black, near longitudinal member, front left
T10n	10-pin connector, black, near longitudinal member, front left
T25	25-pin connector, black (connector A)
T52	52-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
T121	121-pin connector, black, on engine control unit
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	for models with engine code BSE, BSF only
**	for models with engine codes BLR, BLY, BVY, BVZ only
***	for models with engine code BLF only
****	for models with direct shift gearbox 0AM only
*****	for models with automatic gearbox (09G) only

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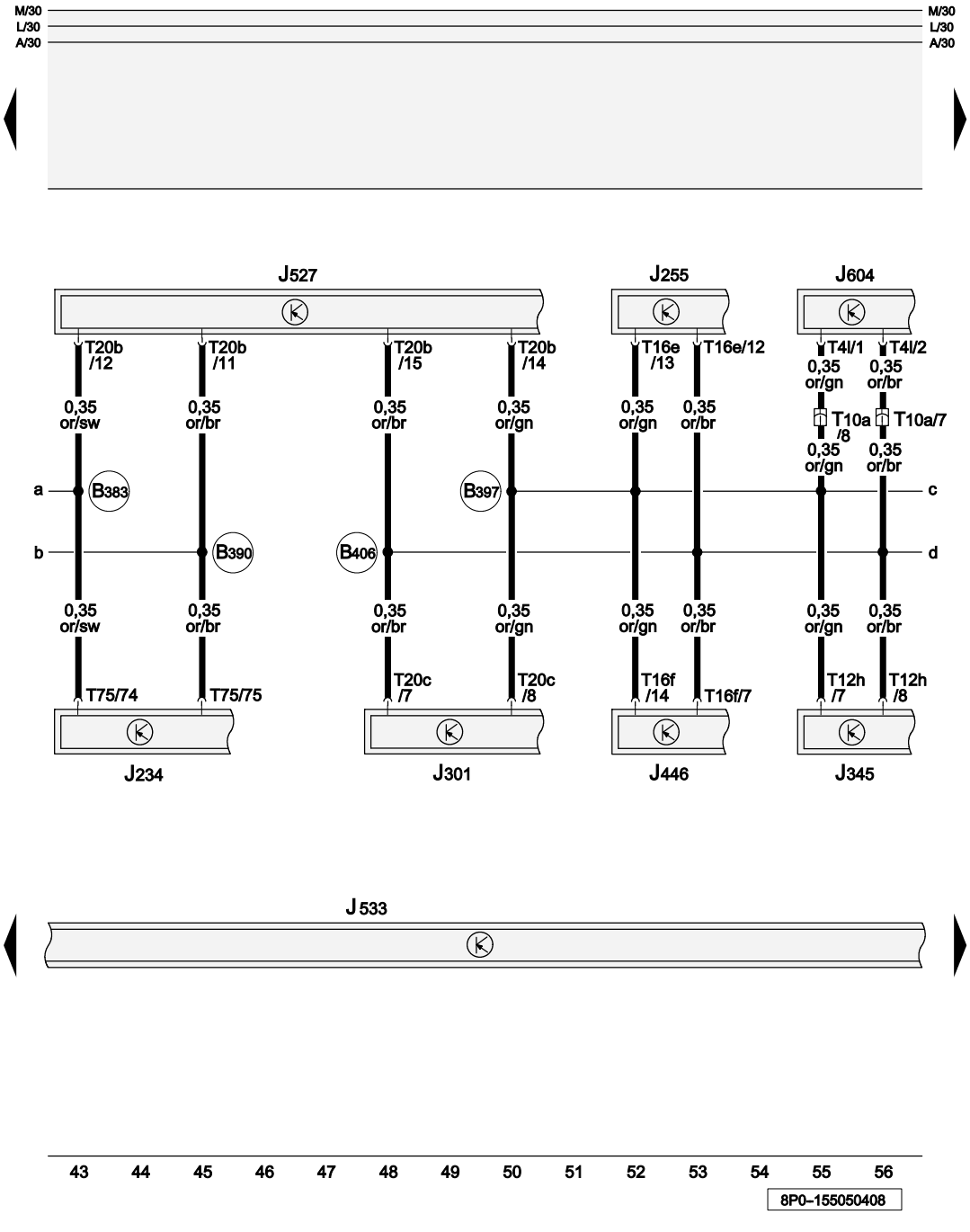


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Drive train CAN bus

J104	ABS control unit
J431	Headlight range control, control unit
J492	Four-wheel drive control unit
J533	Data bus diagnostic interface
J667	Power output module for left headlight
J668	Power output module for right headlight
T6q	6-pin connector, black, near fuel gauge sender 2
T20d	20-pin connector, yellow (connector A)
T26a	26-pin connector, black (connector A)
T26b	26-pin connector, blue (connector A)
B229	Connection (high bus), in interior wiring harness
B230	Connection (low bus), in interior wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
*	for models with anti-lock brake system (ABS) MK60 and direct shift gearbox (02E) or manual gearbox only
**	for models with anti-lock brake system (ABS) MK70 only
***	for models with anti-lock brake system (ABS) MK60 and automatic gearbox (09G) only
****	for models with dynamic cornering light only

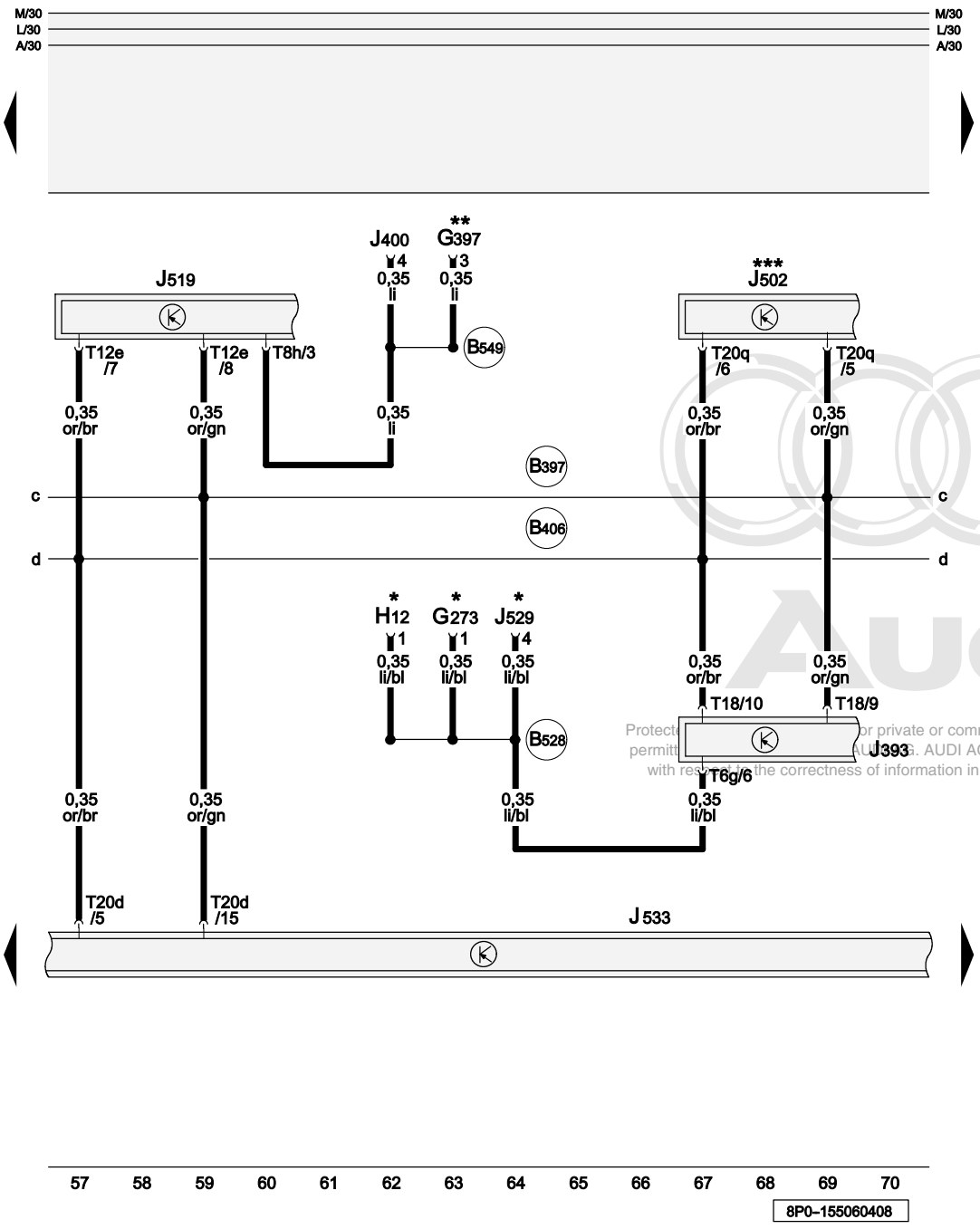


Convenience CAN bus

J234	Airbag control unit
J255	Climatronic control unit
J301	Air conditioning system control unit
J345	Trailer detector control unit
J446	Parking aid control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J604	Auxiliary air heater control unit
T4l	4-pin connector, black (connector C)
T10a	10-pin connector, black, behind the glove compartment
T12h	12-pin connector, red (connector A)
T16e	16-pin connector, brown (connector C)
T16f	16-pin connector, brown, on parking aid control unit
T20b	20-pin connector, black (connector A)
T20c	20-pin connector, black (connector A)
T75	75-pin connector, yellow (connector locking green)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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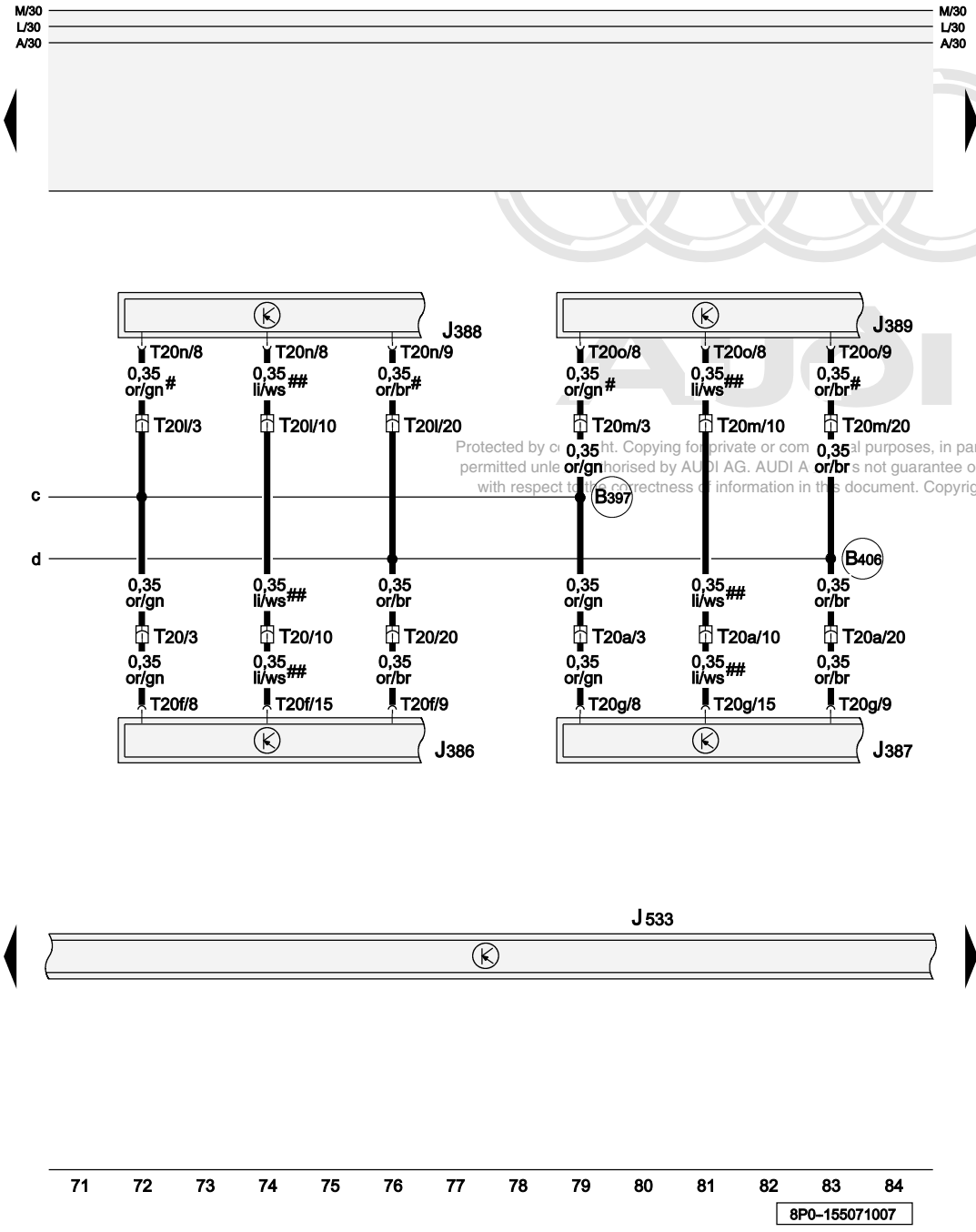


Convenience CAN bus, LIN bus

G273	Interior monitoring sensor
G397	Rain and light detector sensor
H12	Alarm horn
J393	Convenience system central control unit
J400	Wiper motor control unit
J502	Tyre pressure monitor control unit
J519	Onboard supply control unit
J529	Anti-theft and tilt system control unit
J533	Data bus diagnostic interface
T6g	6-pin connector, black (connector E)
T8h	8-pin connector, black (connector F)
T12e	12-pin connector, black (connector G)
T18	18-pin connector, brown (connector A)
T20d	20-pin connector, yellow (connector A)
T20q	20-pin connector (connector A)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B528	Connection 1 (LIN bus), in main wiring harness
B549	Connection 2 (LIN bus), in main wiring harness
*	for models with anti-theft alarm system only
**	for models with automatic headlight switching only
***	for models with US equipment only

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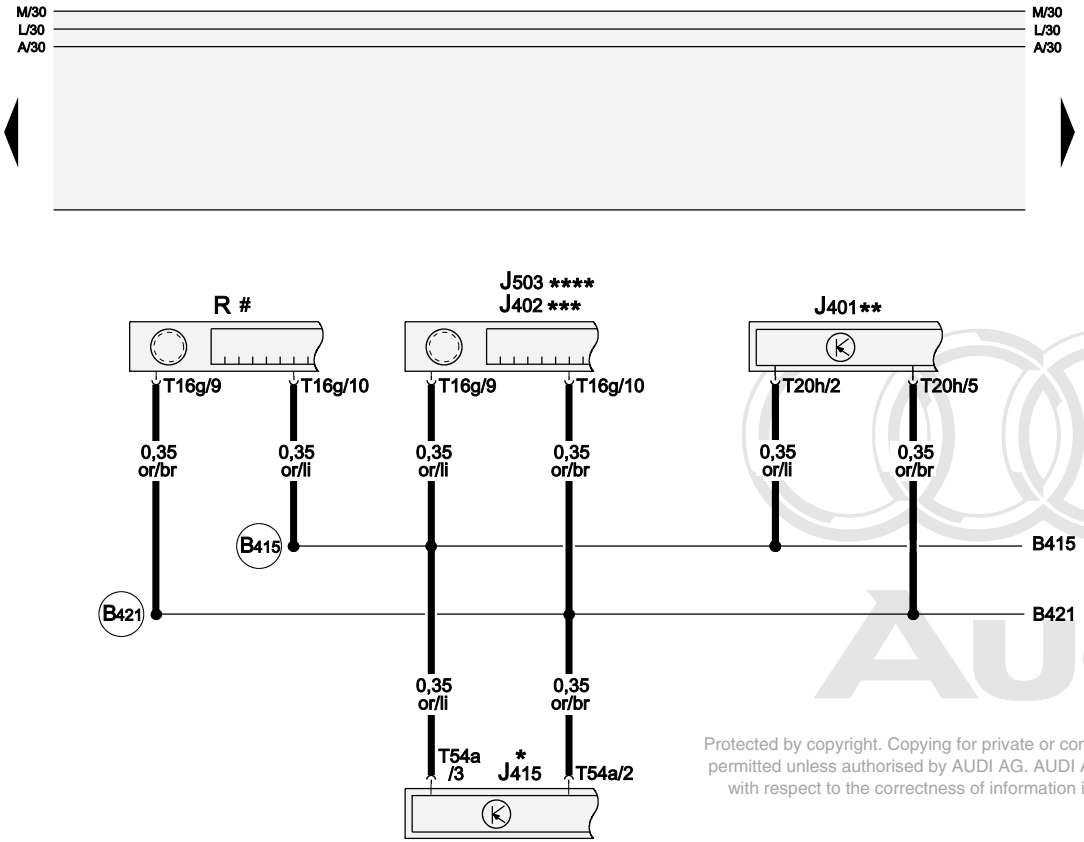


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Convenience CAN bus

J386	Driver door control unit
J387	Front passenger door control unit
J388	Rear left door control unit
J389	Rear right door control unit
J533	Data bus diagnostic interface
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
T20f	20-pin connector, black (connector A)
T20g	20-pin connector, black (connector A)
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
T20n	20-pin connector, black (connector A)
T20o	20-pin connector, black (connector A)
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	is dropped from May 2007
##	applicable from May 2007

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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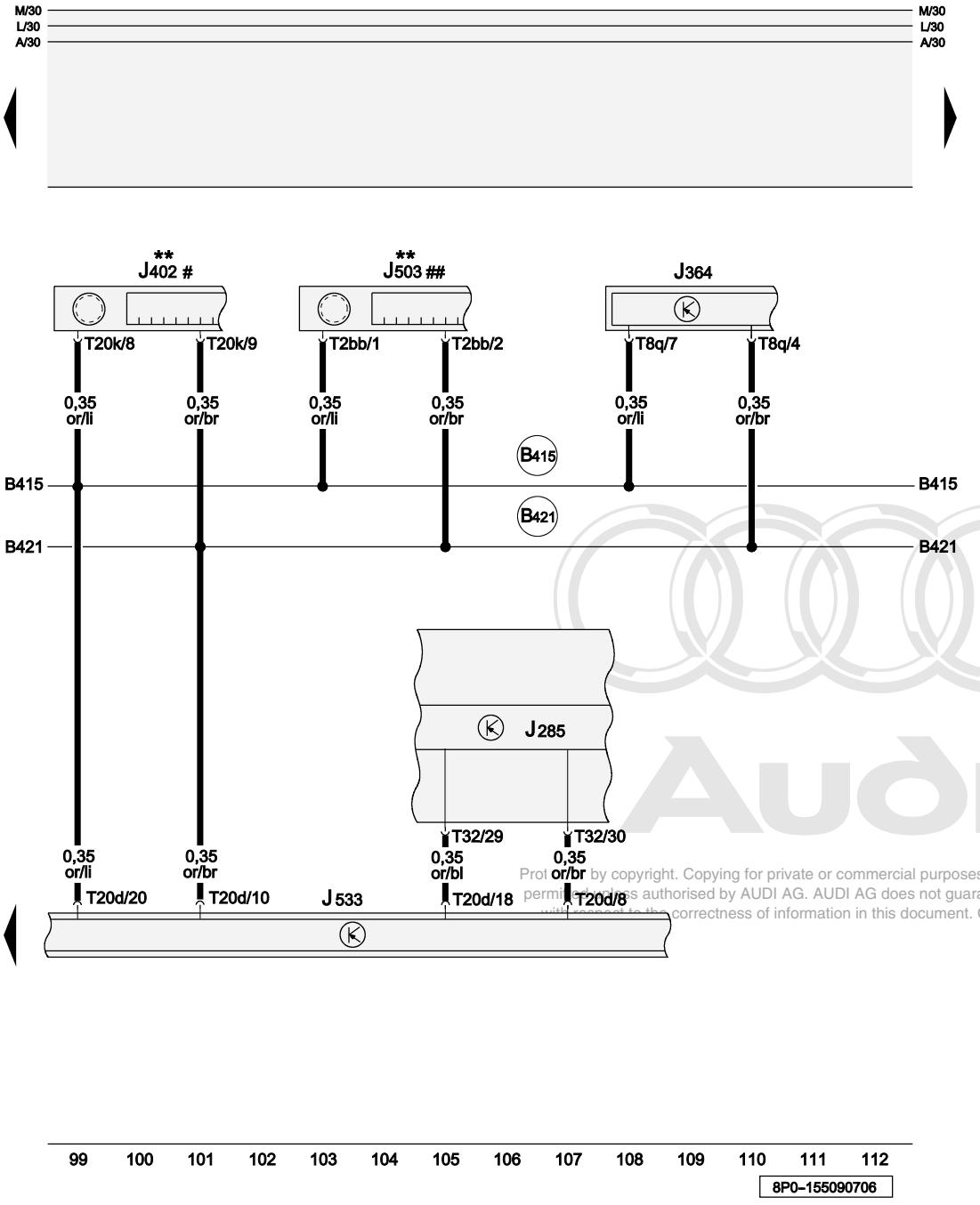


Infotainment CAN bus

J401	Navigation system with CD drive control unit
J402	Navigation operating electronics control unit
J503	Control unit with display for radio and navigation system
J415	Navigation system tuner for TV
J533	Data bus diagnostic interface
R	Radio
T20d	20-pin connector, yellow (connector A)
T20h	20-pin connector, black (connector C)
T54a	54-pin connector, black (connector A)
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	for models with TV tuner only
**	for models with navigation system NS-LOW only
***	for models with radio navigation system RNS-E only
****	for models with radio navigation system RNS-low only
#	for models with radiogeneration II plus only

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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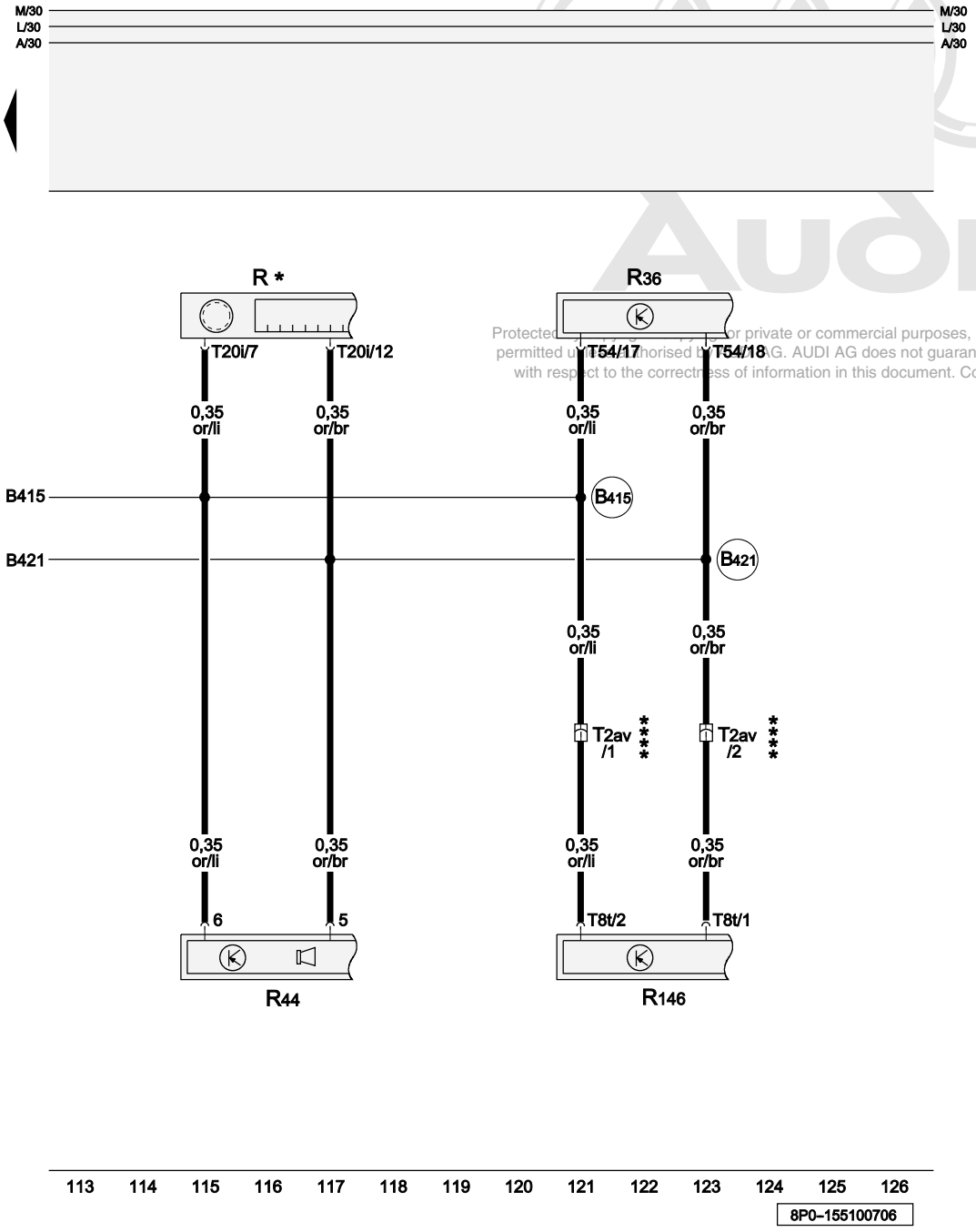


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Infotainment CAN bus

J285	Control unit in dash panel insert
J364	Auxiliary heater control unit
J402	Navigation operating electronics control unit
J503	Control unit with display for radio and navigation system
J533	Data bus diagnostic interface
T2bb	2-pin connector, black (connector D)
T8q	8-pin connector, black (connector A)
T20d	20-pin connector, yellow (connector A)
T20k	20-pin connector, black (connector C)
T32	32-pin connector, blue (connector A)
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
**	for models with radio navigation system (models for Japan) only
#	is dropped, from model year 2006
##	applicable from model year 2007

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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Infotainment CAN bus

R	Radio
R36	Telephone transmitter and receiver unit
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R146	Satellite radio
T2av	2-pin connector, black, on right A-pillar
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	for models with radiogeneration II only
****	for satellite radio preparation only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Driving school vehicle

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

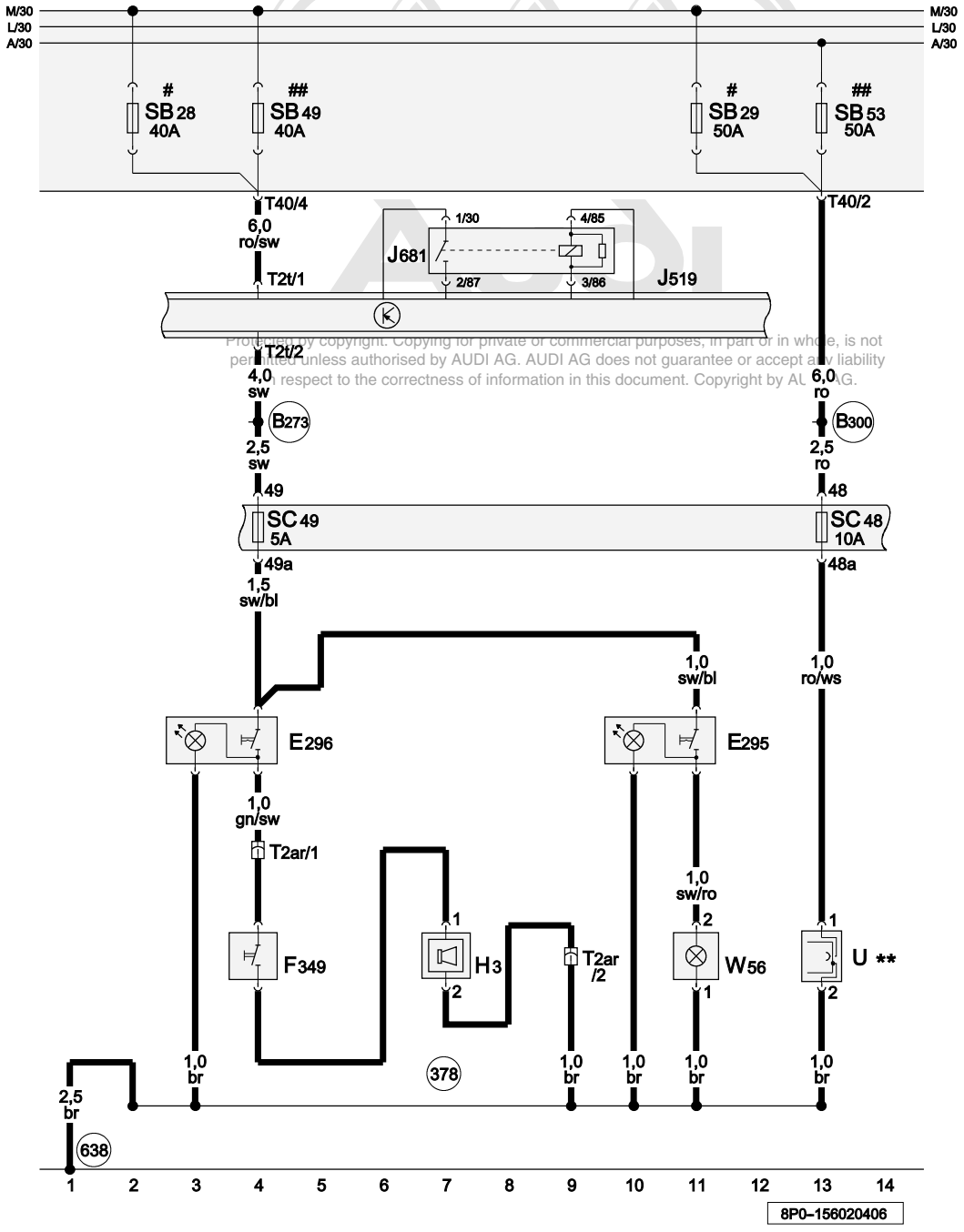
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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Footwell light switch, warning buzzer switch

E295	Footwell light switch
E296	Warning buzzer switch
F349	Warning buzzer for pedal switch on front passenger side
H3	Buzzer and gong
J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC48	Fuse 48 on fuse holder C
SC49	Fuse 49 on fuse holder C
T2t	2-pin connector, black (connector L)
T2ar	2-pin connector, black, behind the glove compartment
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
U	Electric socket
W56	Driving school vehicle footwell illumination
378	Earth connection 13, in main wiring harness
638	Earth point, right A-pillar
B273	Positive connection (15), in main wiring harness
B300	Positive connection 4 (30), in main wiring harness
**	In glove compartment
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

Preparation for mobile telephone with hands-free system

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

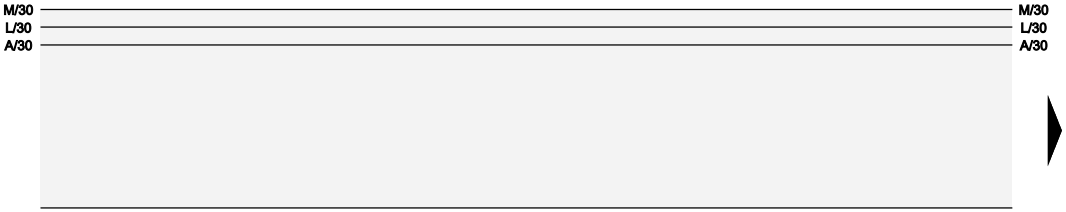
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For information concerning

- Fault Finding Programs

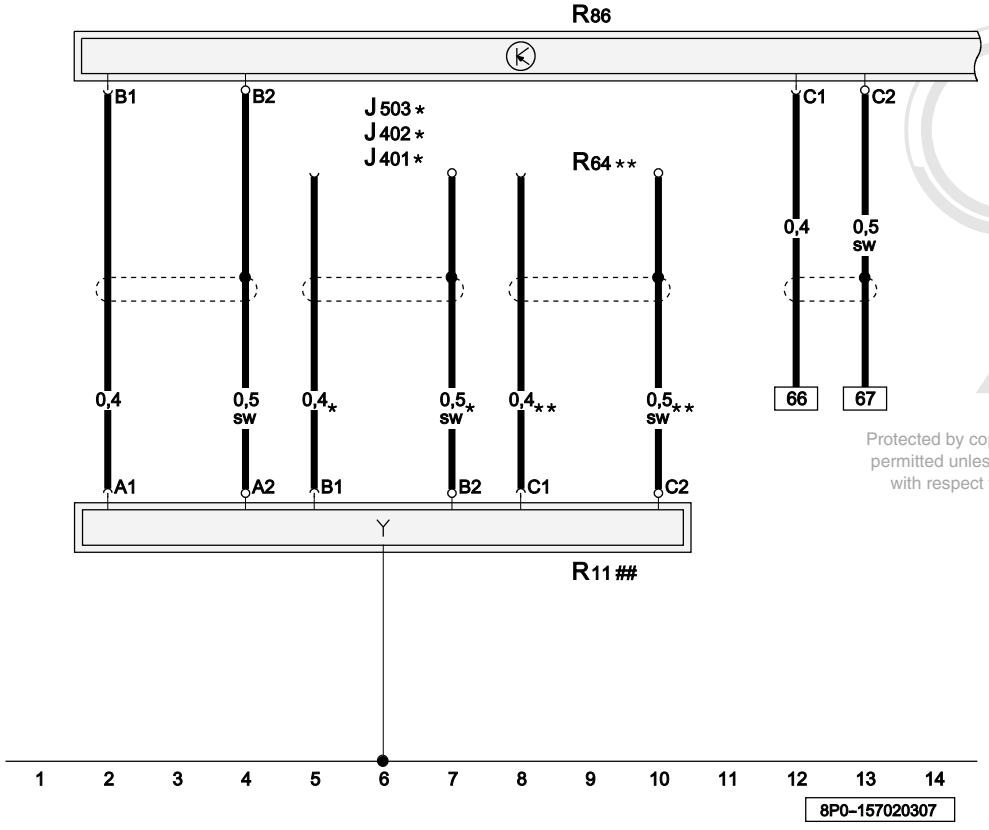
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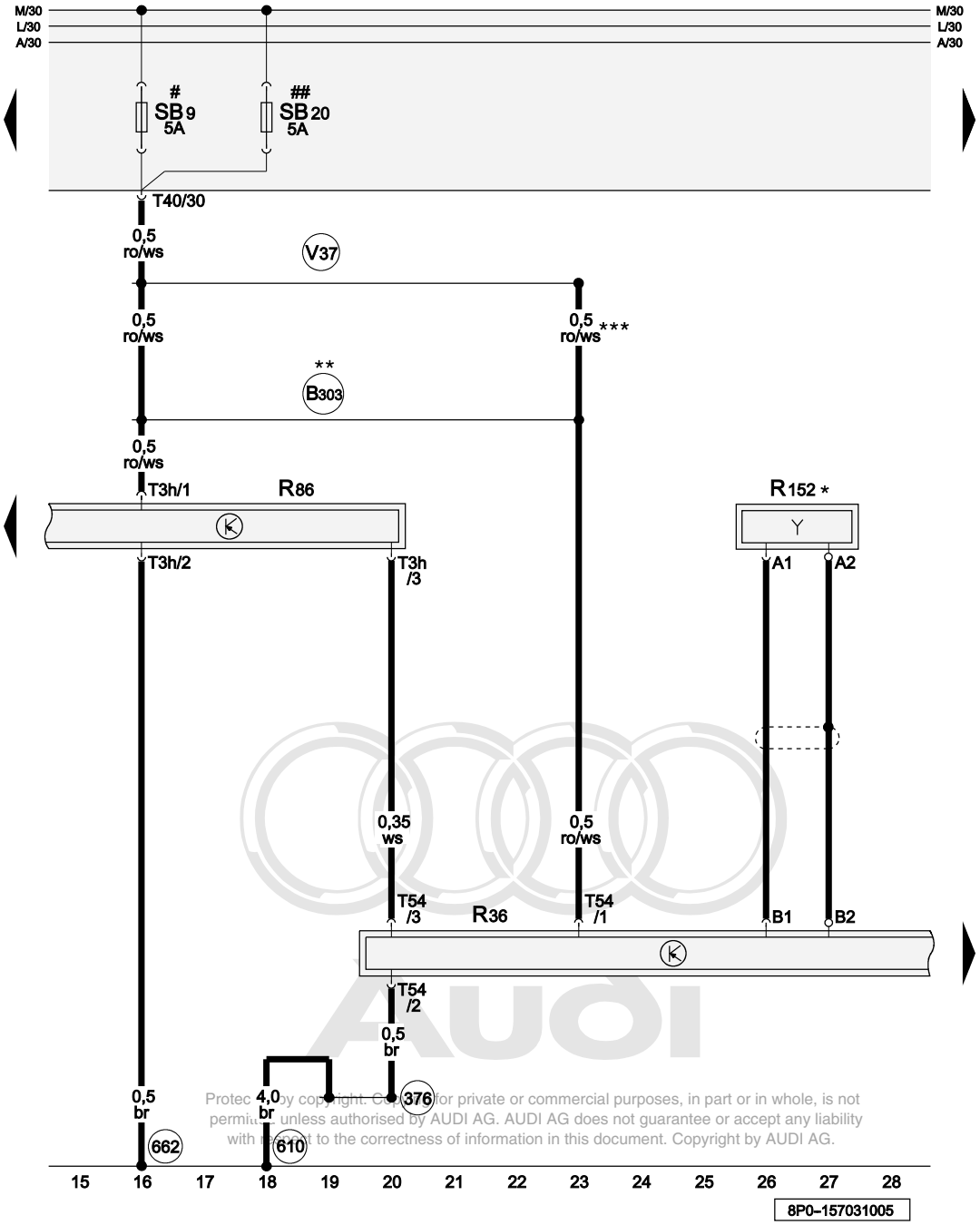
roof aerial

J401	Navigation system with CD drive control unit
J402	Navigation operating electronics control unit
J503	Control unit with display for radio and navigation system
R11	Aerial
R64	Remote control receiver for auxiliary heating
R86	Aerial amplifier for mobile telephone
*	for models with navigation system only
**	for models with auxiliary heating only
##	R11 is replaced by R66



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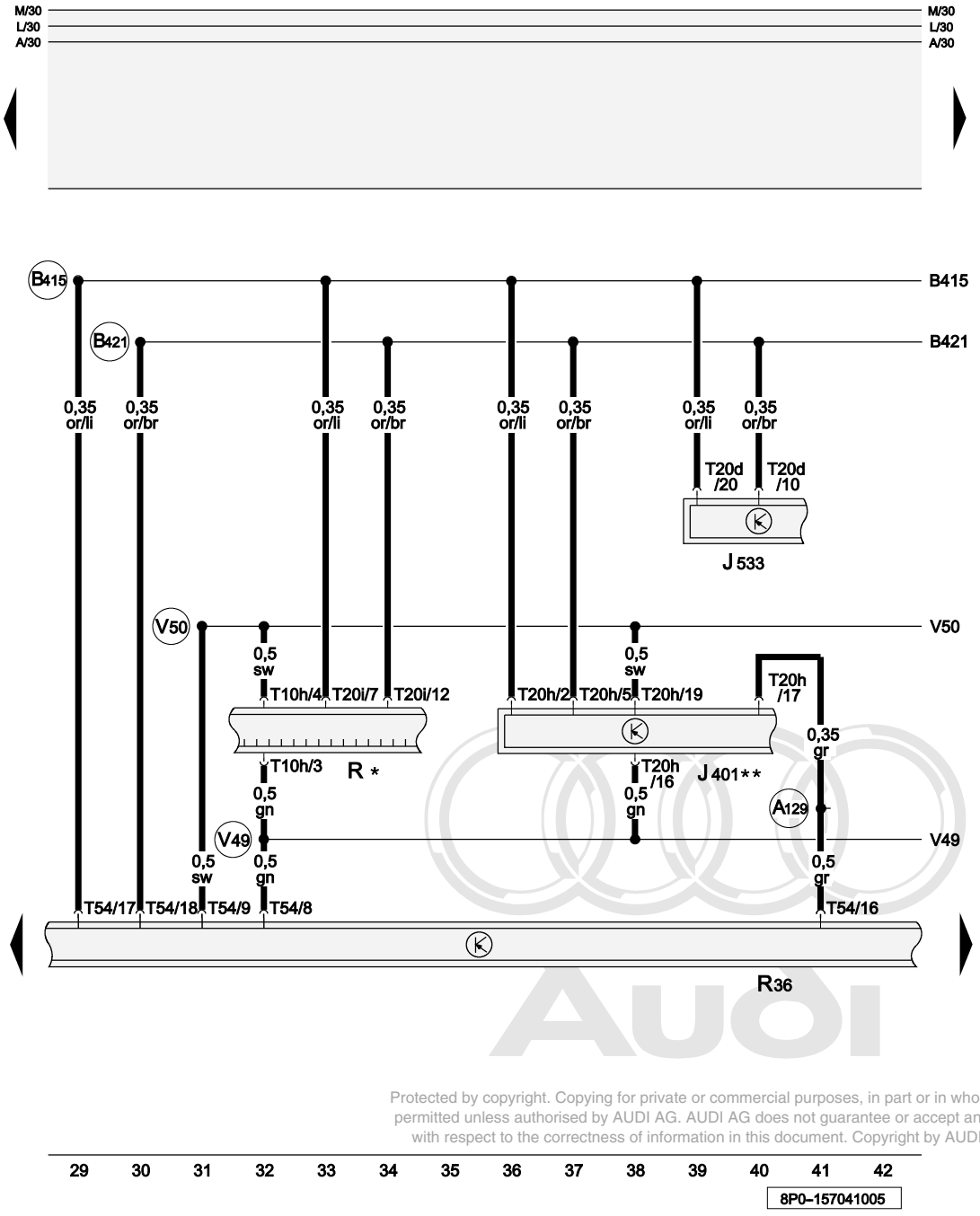


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Aerial for Bluetooth, aerial for Bluetooth

R36	Telephone transmitter and receiver unit
R86	Aerial amplifier for mobile telephone
R152	Aerial for Bluetooth
SB9	Fuse 9 on fuse holder B
SB20	Fuse 20 on fuse holder B
T3h	3-pin connector, black, rear left on C-pillar (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T54	54-pin connector, black (connector A)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
662	Earth point, rear left side panel
B303	Positive connection 7 (30), in main wiring harness
V37	Positive connection (30), in communication wiring harness
*	for models with aerial for Bluetooth only
**	No longer fitted, phased-in modification
***	insert with B303 dropped
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

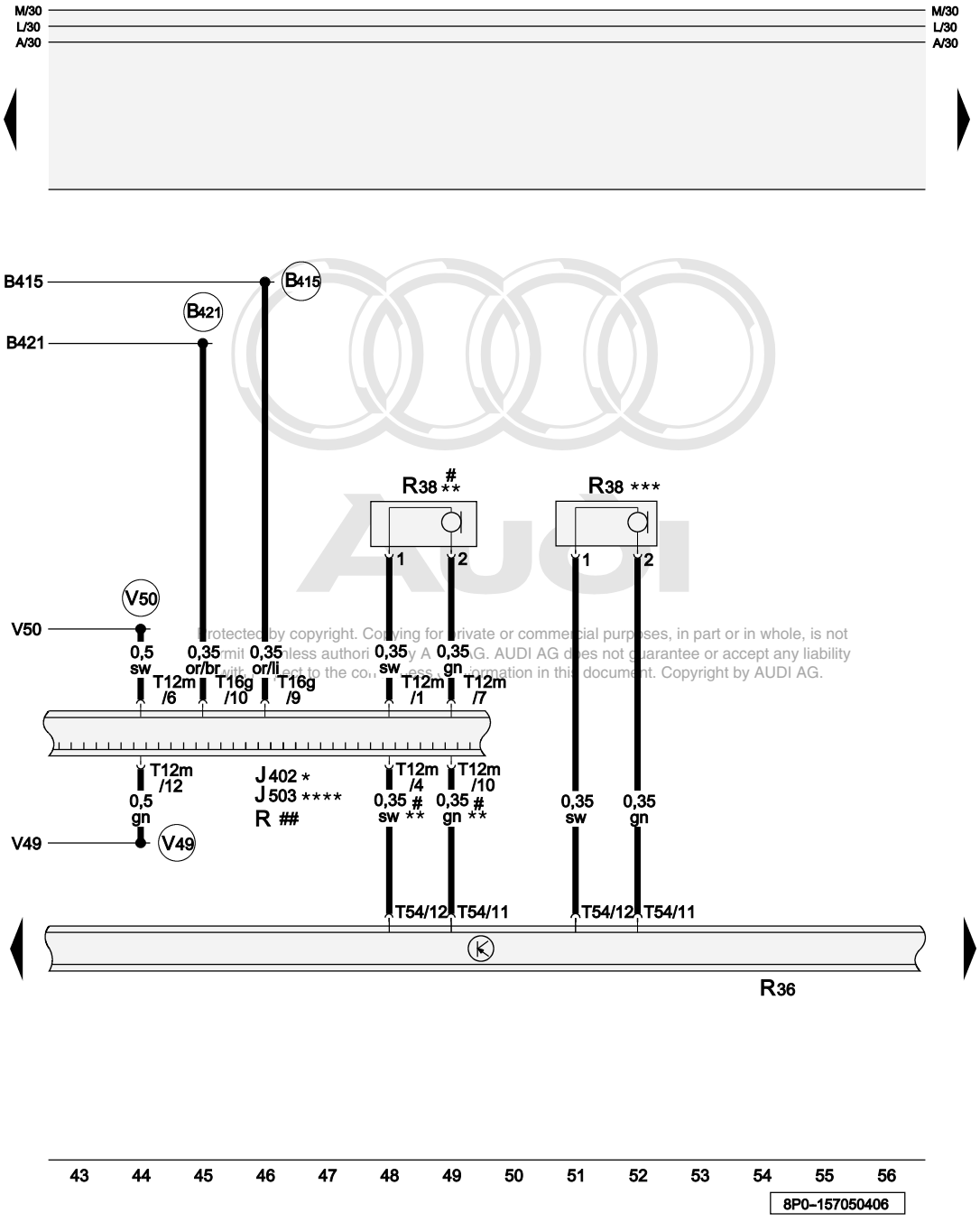


Muting

J401	Navigation system with CD drive control unit
J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T20d	20-pin connector, yellow (connector A)
T20h	20-pin connector, black (connector C)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with radiogeneration II only
**	for models with navigation system NS-LOW only

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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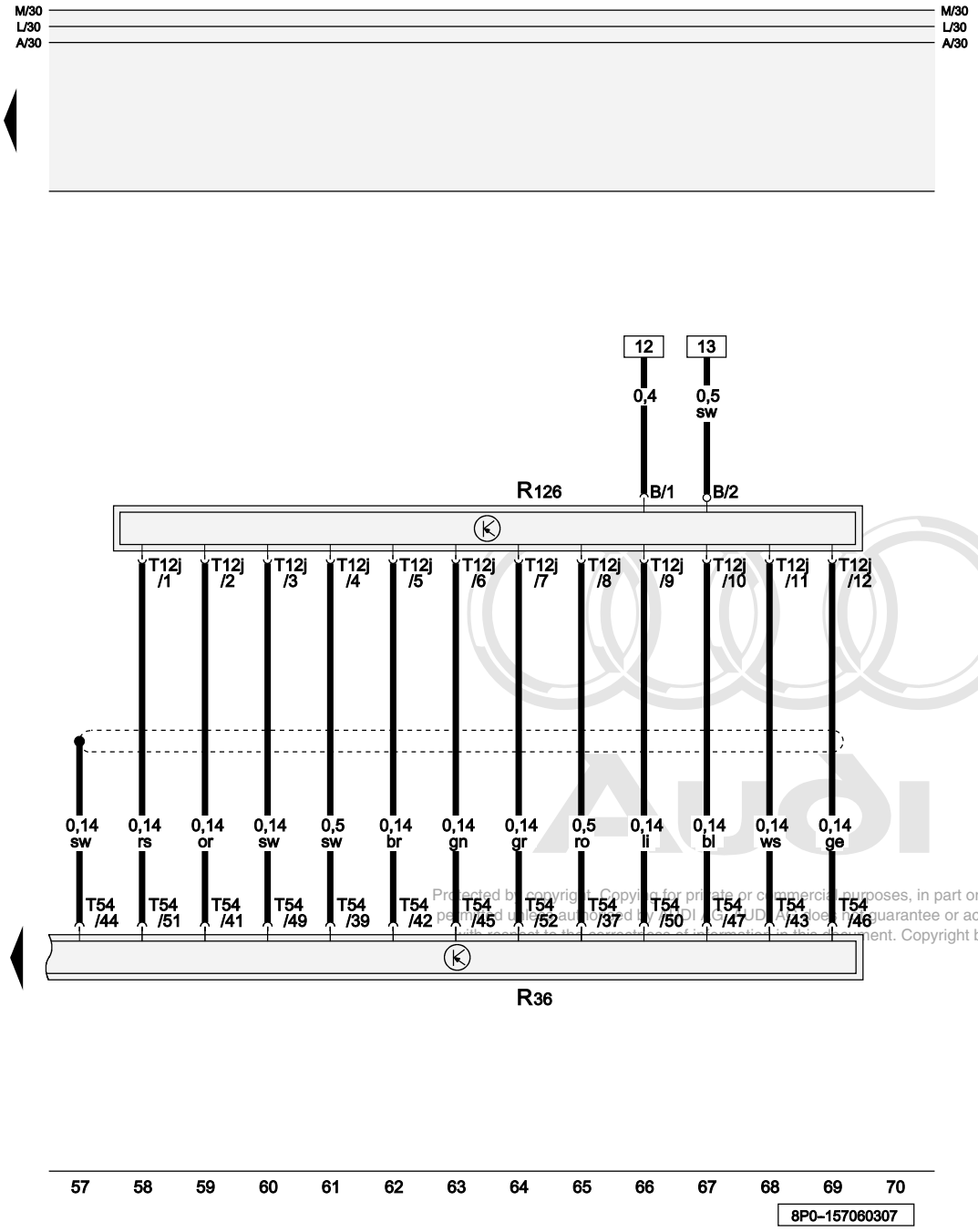


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Telephone microphone

J402	Navigation operating electronics control unit
J503	Control unit with display for radio and navigation system
R	Radio
R36	Telephone transmitter and receiver unit
R38	Telephone microphone
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T54	54-pin connector, black (connector A)
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with radio navigation system RNS-E only
**	for models with voice control only
***	for models without voice control only
****	for models with radio navigation system RNS-low only
#	not for models with radio navigation system RNS-low or radiogeneration II plus
##	for models with radiogeneration II plus only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink



Telephone bracket

R36	Telephone transmitter and receiver unit
R126	Telephone bracket
T12j	12-pin connector, brown (connector A)
T54	54-pin connector, black (connector A)

ws	=	white
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Preparation for mobile telephone with hands-free system

⇒ **for US equipment only**

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

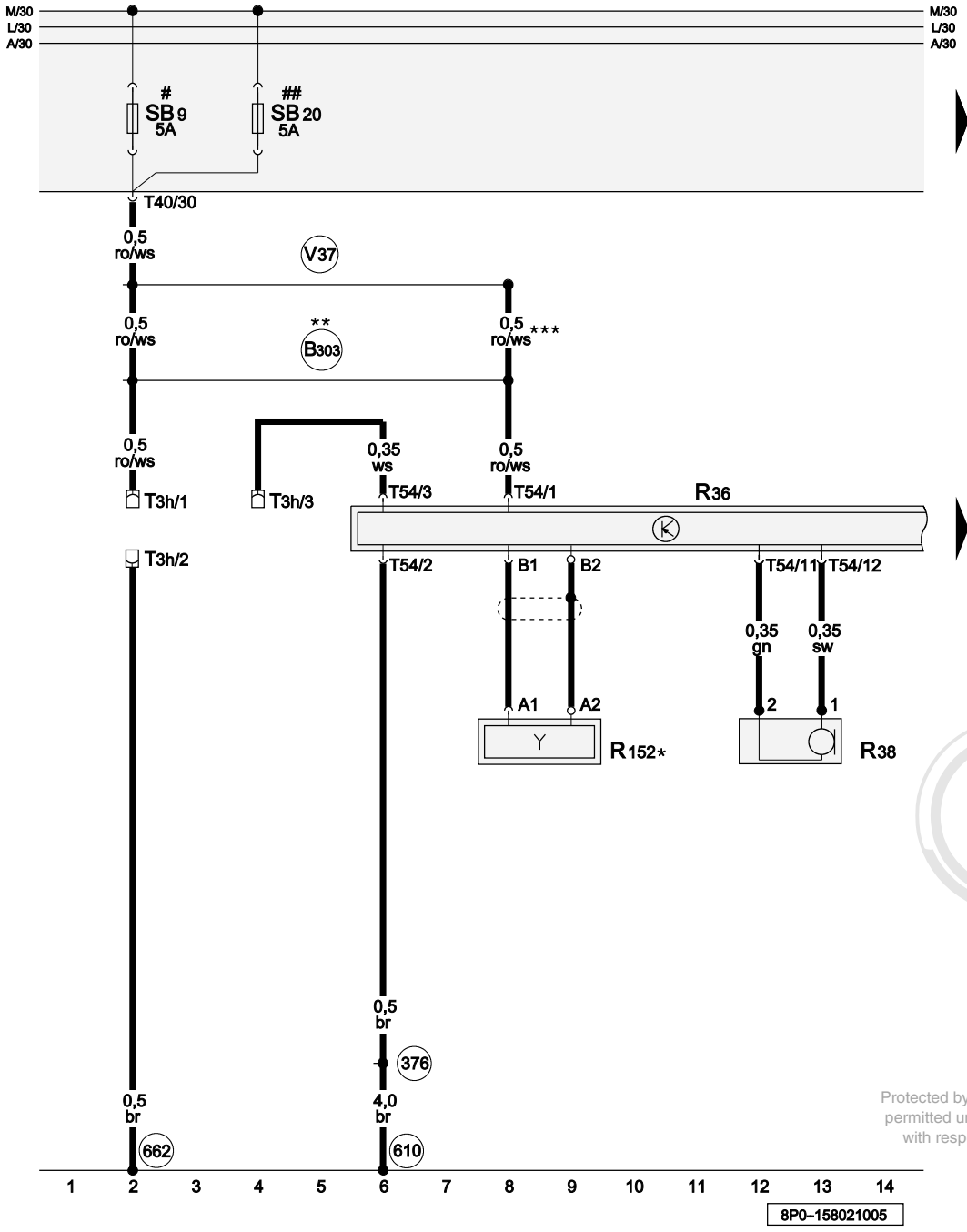
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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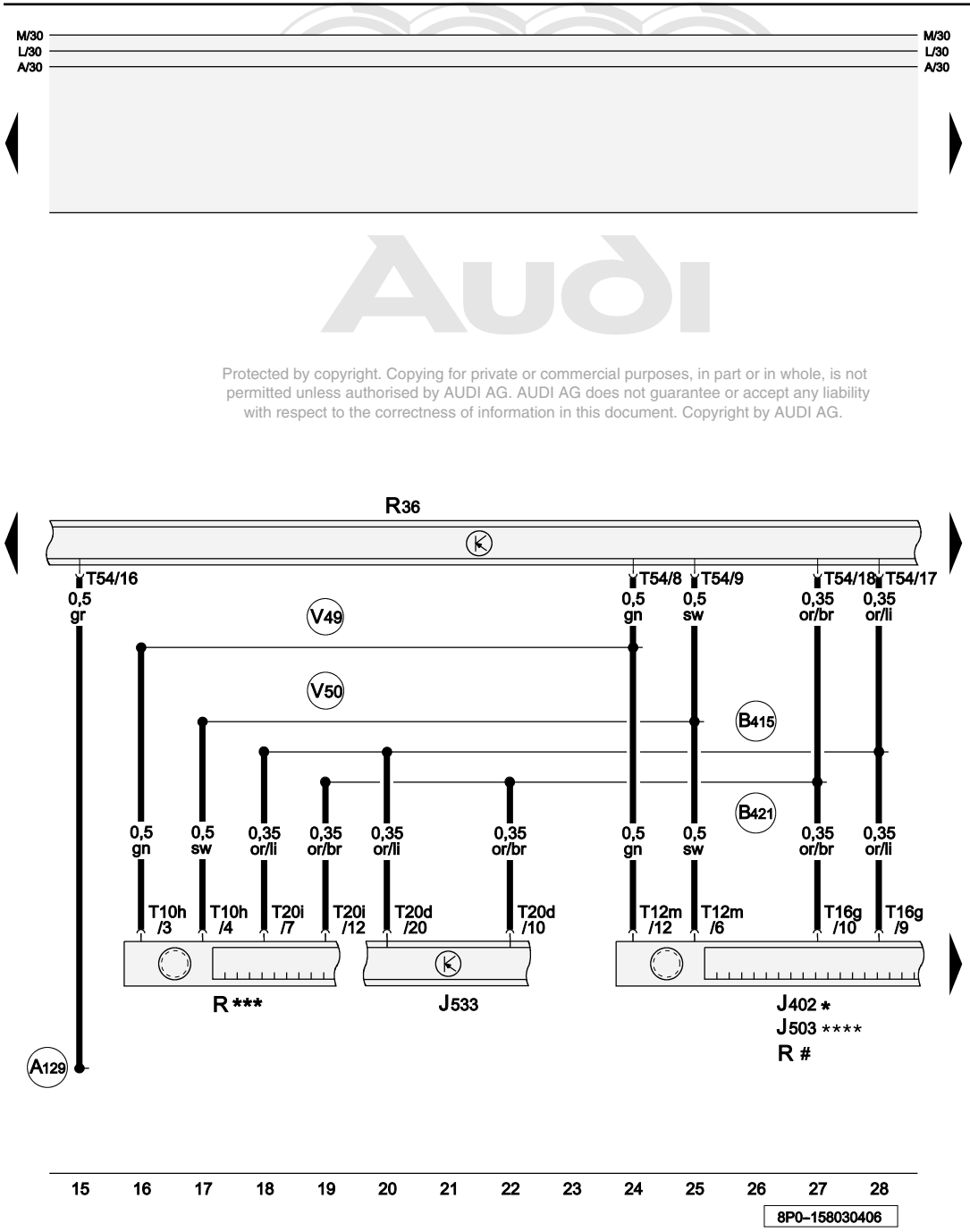


Telephone microphone, aerial for Bluetooth

R36	Telephone transmitter and receiver unit
R38	Telephone microphone
R152	Aerial for Bluetooth
SB9	Fuse 9 on fuse holder B
SB20	Fuse 20 on fuse holder B
T3h	3-pin connector, black, (connector A) rear left on C-pillar
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T54	54-pin connector, black (connector A)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
662	Earth point, rear left side panel
B303	Positive connection 7 (30), in main wiring harness
V37	Positive connection (30), in communication wiring harness
*	for models with aerial for Bluetooth only
**	No longer fitted, phased-in modification
***	insert with B303 dropped
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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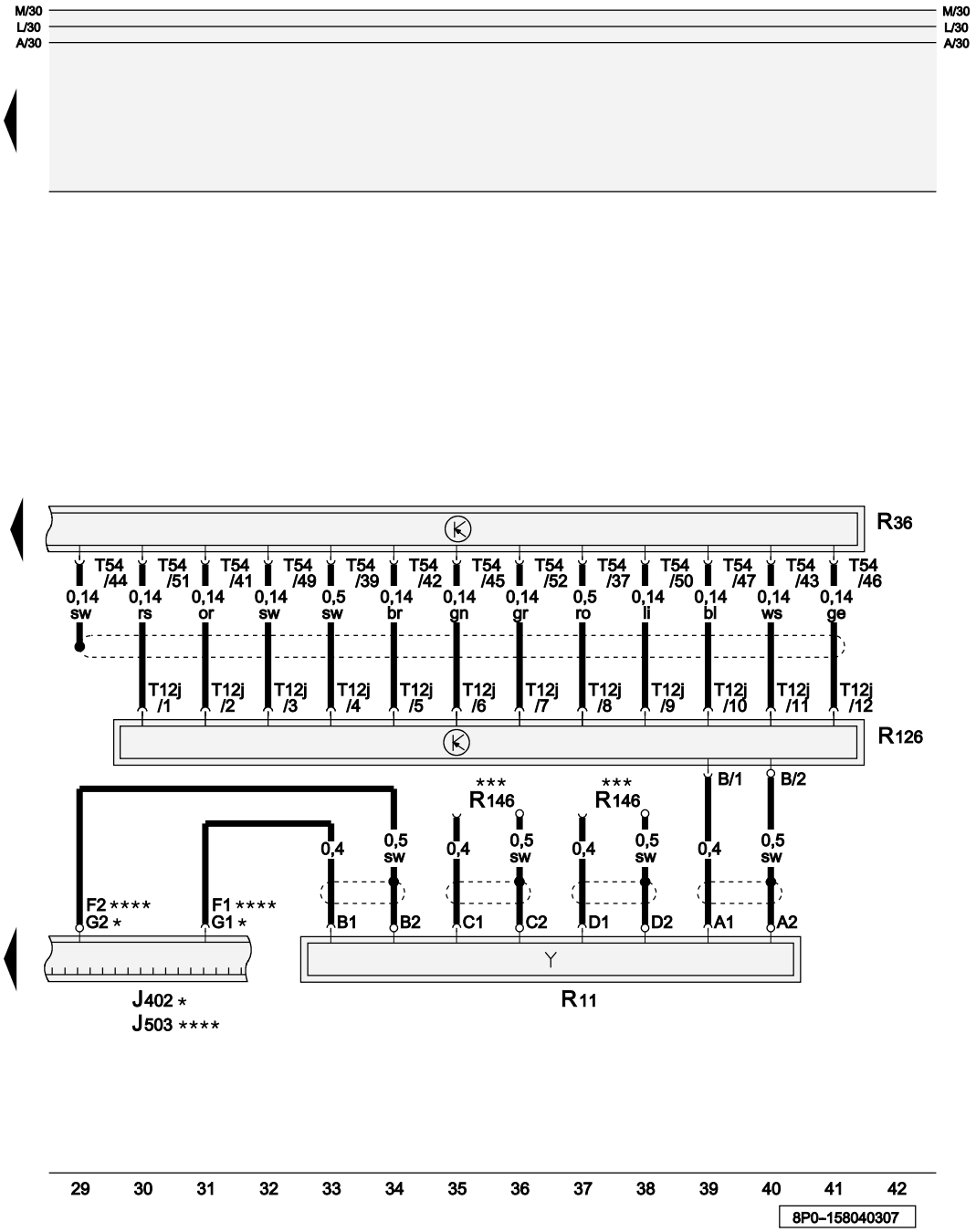


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Muting, infotainment CAN bus

J402	Navigation operating electronics control unit
J503	Control unit with display for radio and navigation system
J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T20d	20-pin connector, yellow (connector A)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with radio navigation system RNS-E only
***	for models with radiogeneration II only
****	for models with radio navigation system RNS-low only
#	for models with radiogeneration II plus only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Roof aerial, telephone bracket

J402	Navigation operating electronics control unit
J503	Control unit with display for radio and navigation system
R11	Aerial
R36	Telephone transmitter and receiver unit
R126	Telephone bracket
R146	Satellite radio
T12j	12-pin connector, brown (connector A)
T54	54-pin connector, black (connector A)
*	for models with radio navigation system RNS-E only
***	for models with satellite radio only
****	for models with radio navigation system RNS-low only

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Sliding sunroof motor (Open-sky-System)

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

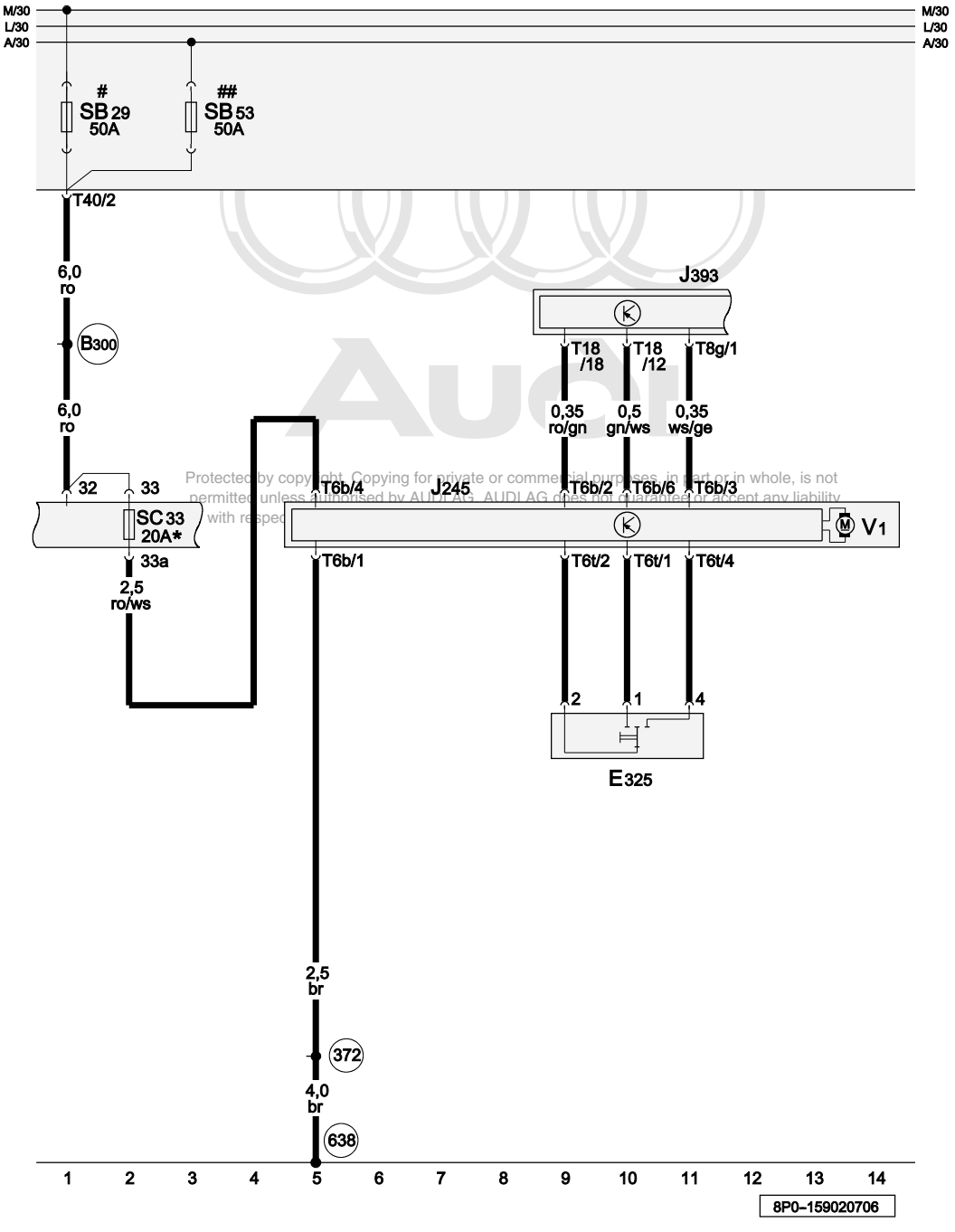
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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Sunroof button, sliding sunroof adjustment control unit

E325	Sunroof button
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC33	Fuse 33 on fuse holder C
T6b	6-pin connector, blue (connector A)
T6t	6-pin connector, black (connector B)
T8g	8-pin connector, black (connector B)
T18	18-pin connector, brown (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V1	Sliding sunroof motor
(372)	Earth connection 7, in main wiring harness
(638)	Earth point, right A-pillar
(B300)	Positive connection 4 (30), in main wiring harness
*	fuse was reduced from 25 A to 20 A, applicable from model year 2007
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Radio without Bose sound system

⇒ **for models with radiogeneration II only**

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

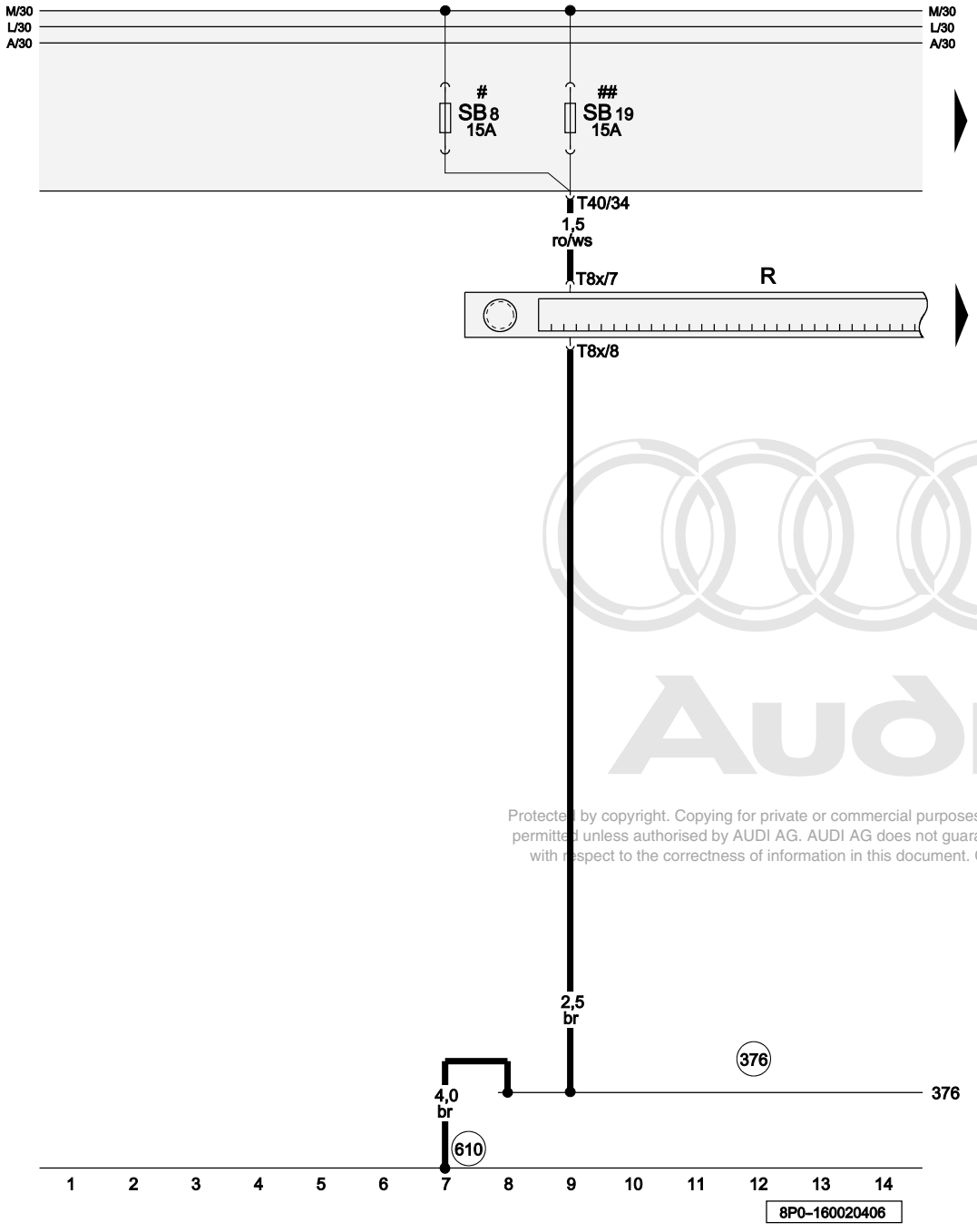
⇒ List of Fitting Locations!

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⇒ guided fault finding

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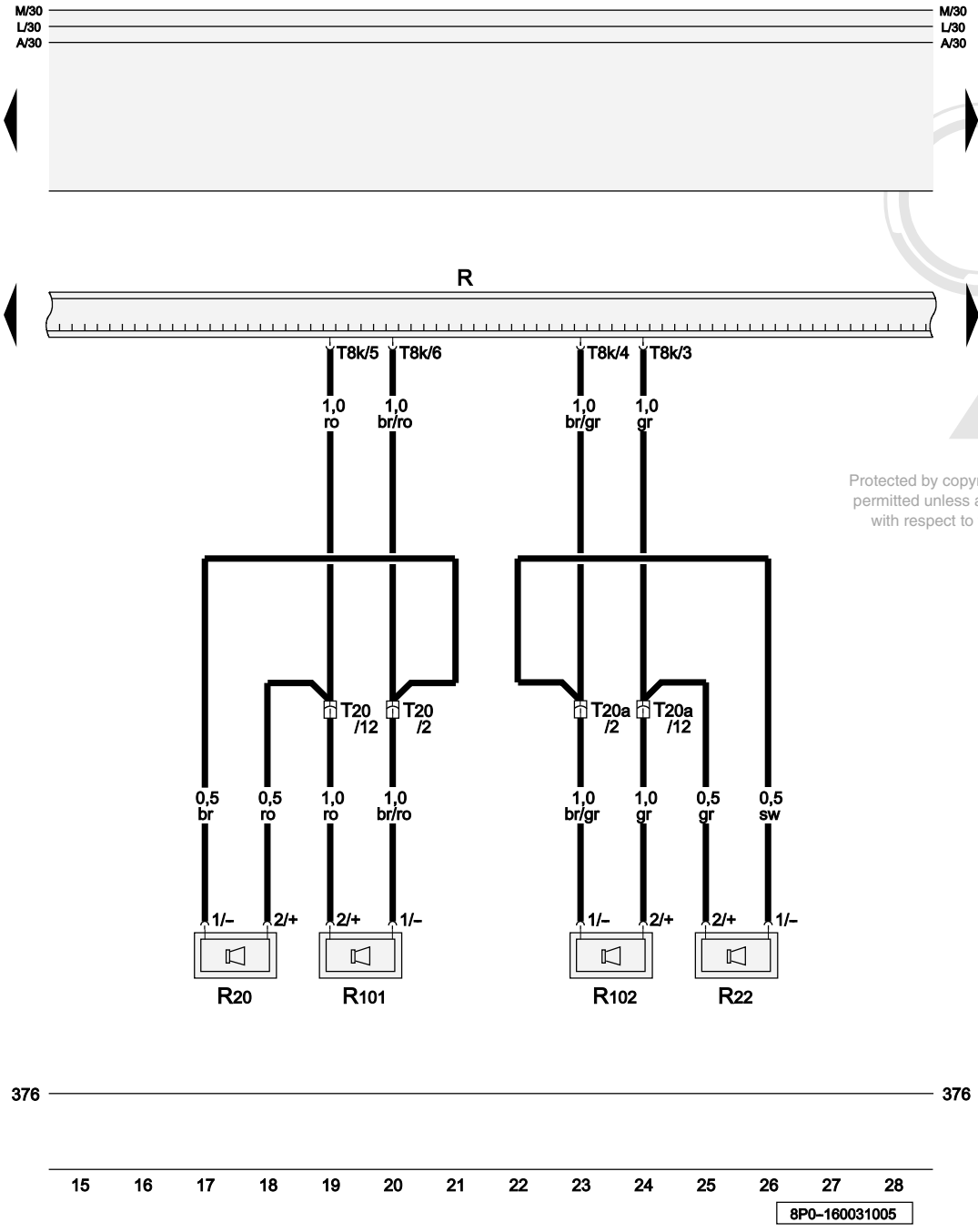


Voltage supply

R	Radio
SB8	Fuse 8 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8x	8-pin connector, black (connector C)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(376)	Earth connection 11, in main wiring harness
(610)	Earth point (audio), under centre console, front
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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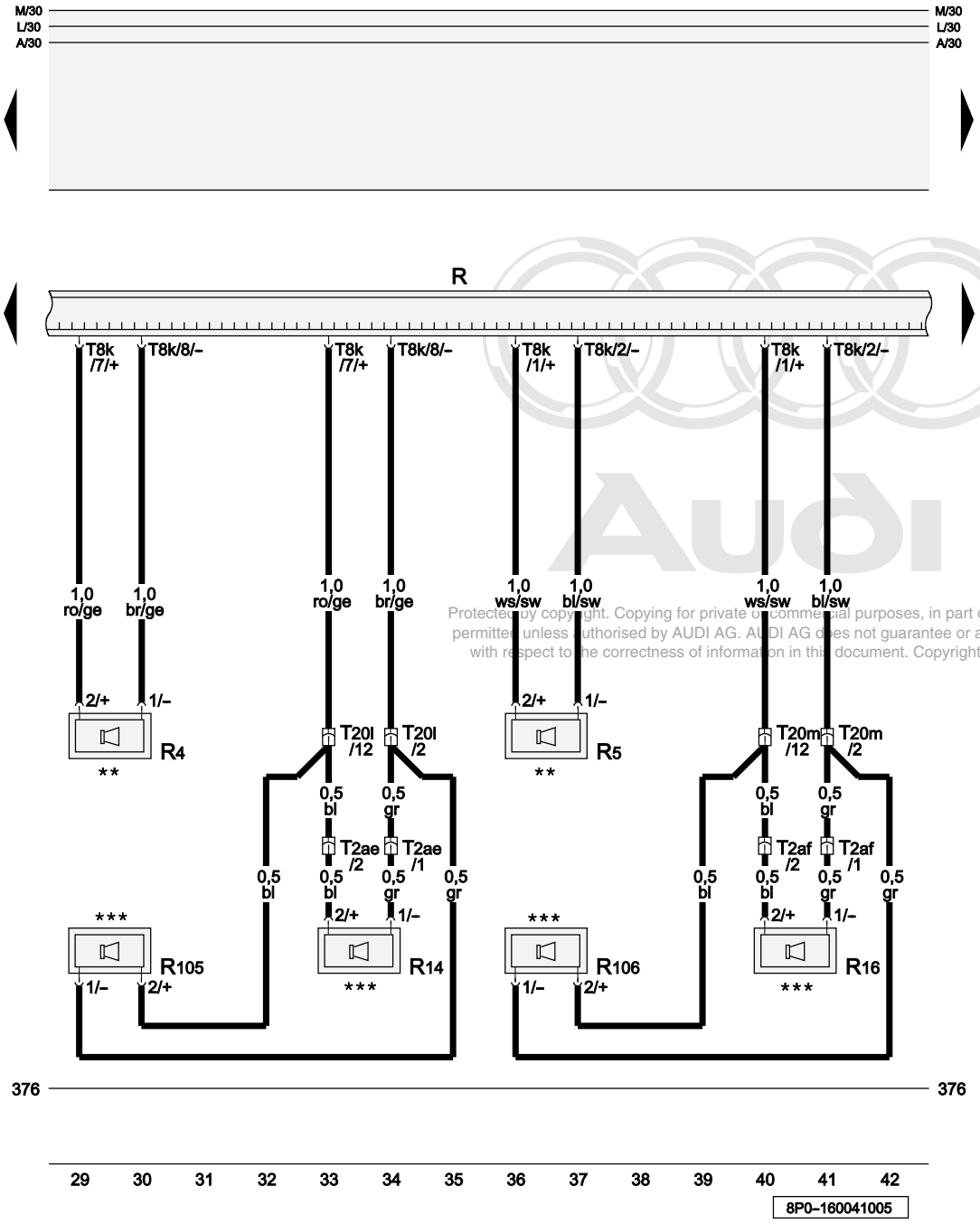


Front loudspeaker without amplifier

R	Radio
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8k	8-pin connector, brown (connector B)
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B472	Connection 8 in main wiring harness

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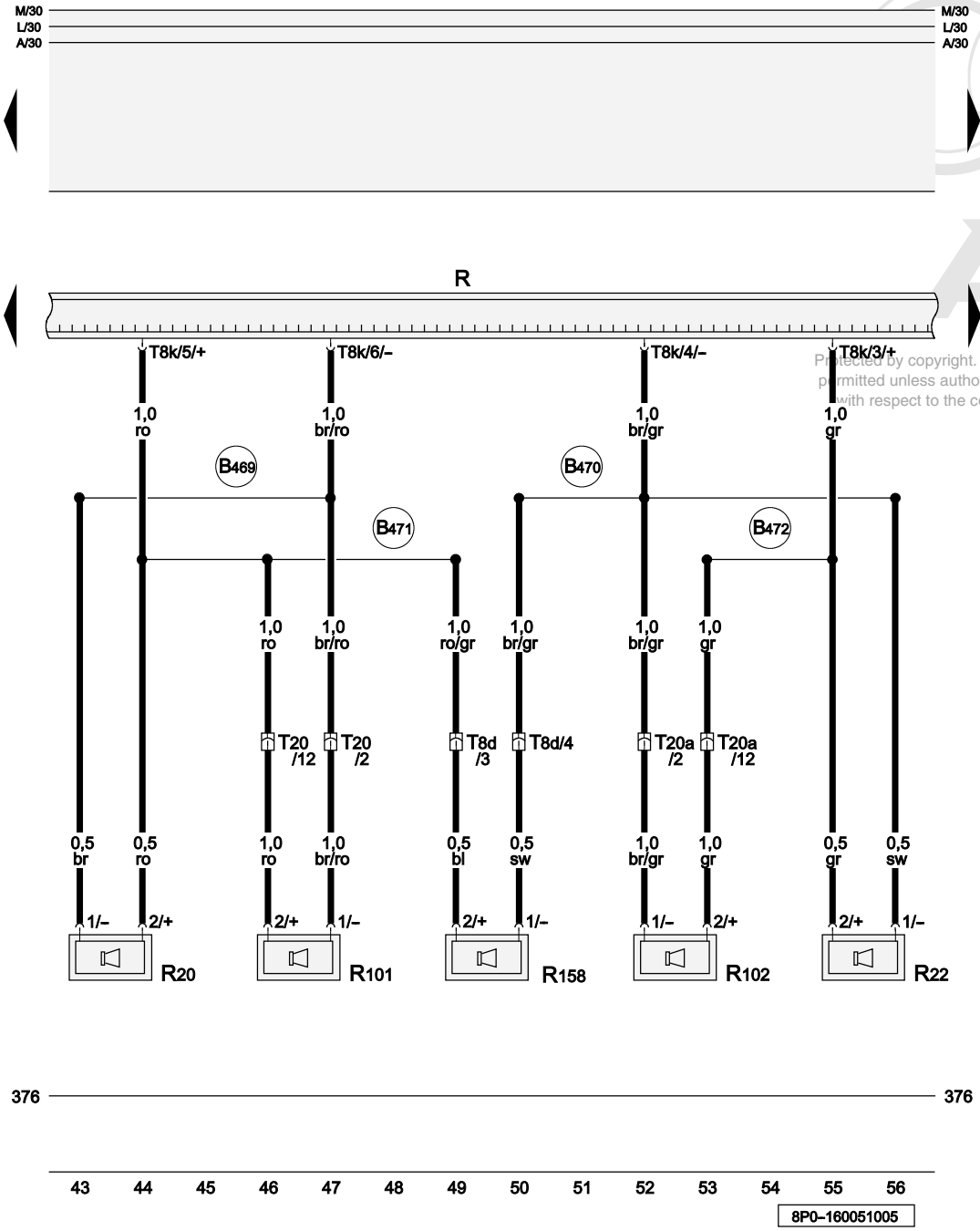


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Rear loudspeaker without amplifier

R	Radio
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T8k	8-pin connector, brown (connector B)
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
**	for models with 3-door models only
***	for models with 5-door models only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

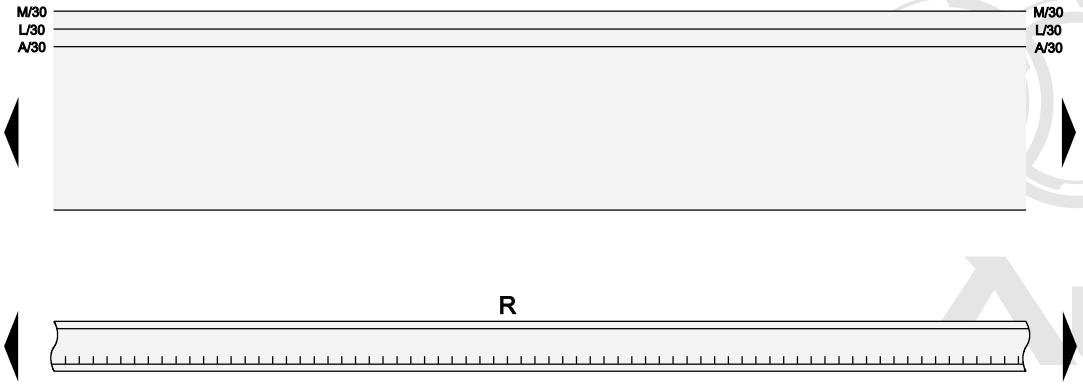


Front loudspeaker with amplifier

R	Radio
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8k	8-pin connector, brown (connector B)
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B472	Connection 8 in main wiring harness

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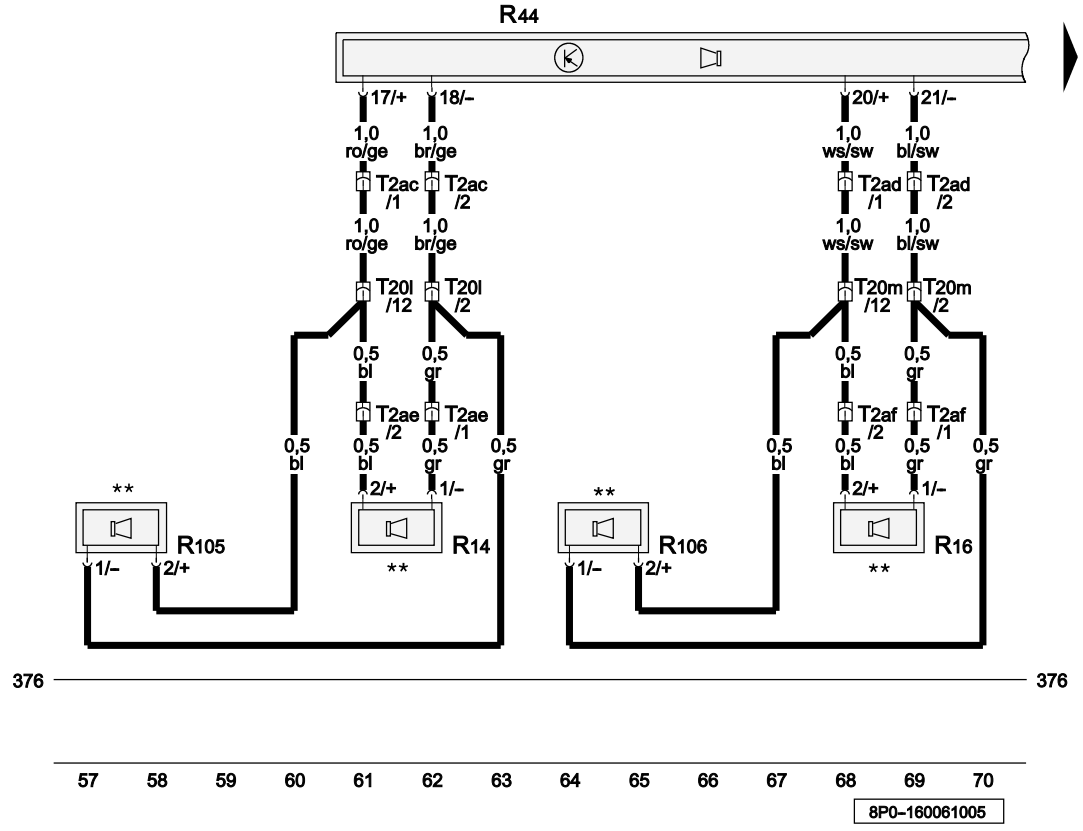
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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
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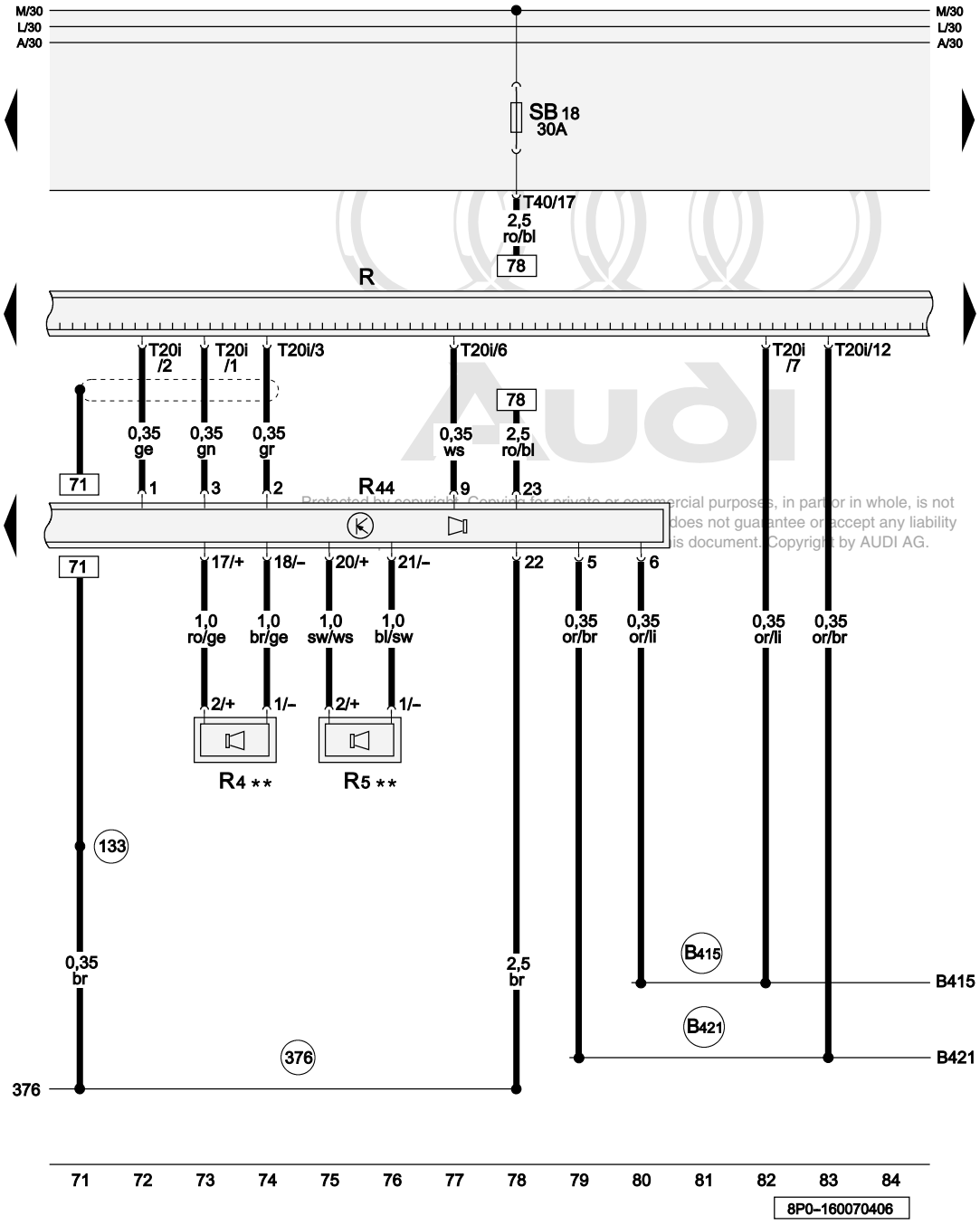
5-door models rear loudspeaker with amplifier

R	Radio
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
**	for models with 5-door models only

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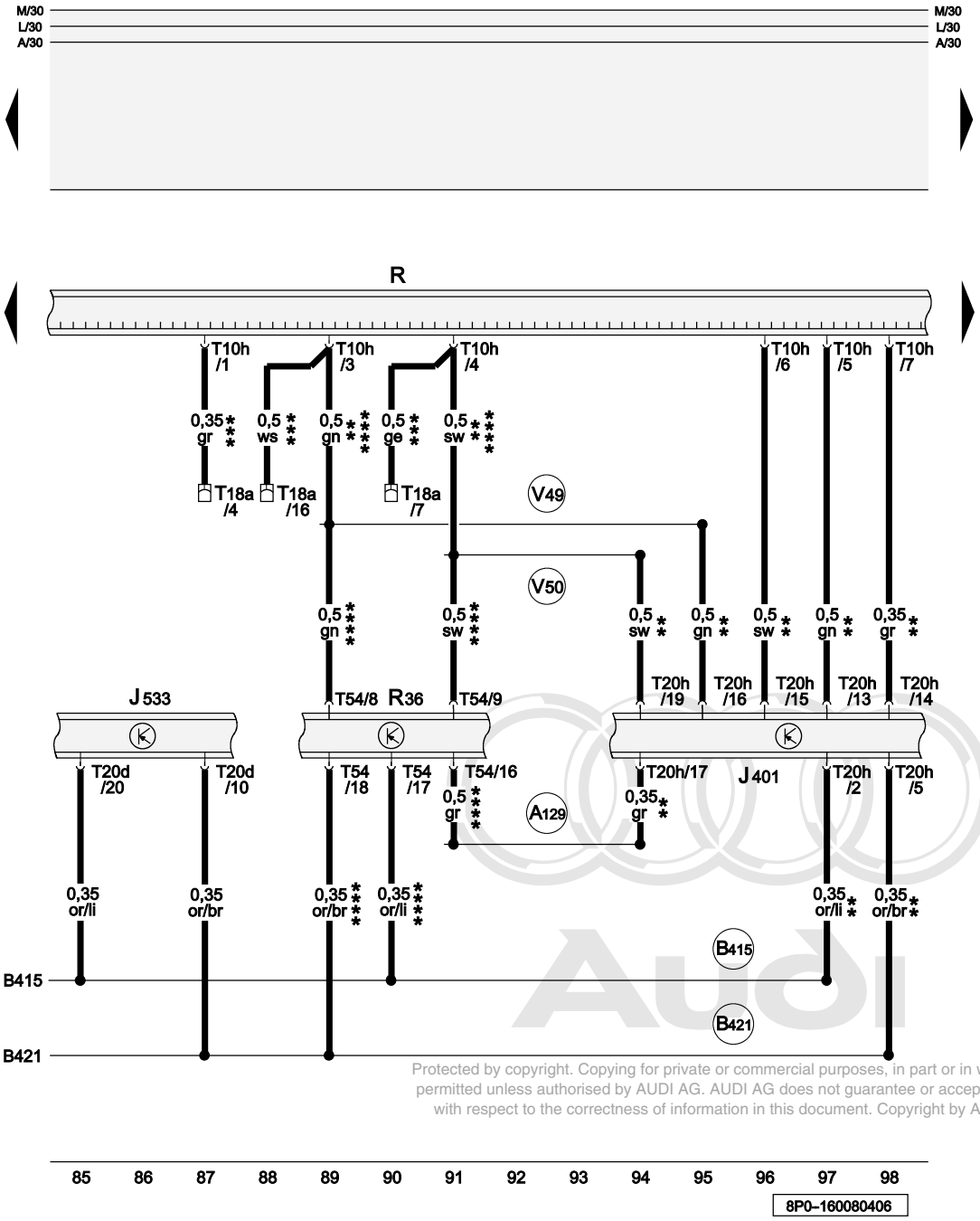


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gr = grey
li = purple
ge = yellow
or = orange
rs = pink

3-door models rear loudspeaker with amplifier, infotainment CAN bus

R	Radio
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder B
T20i	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
**	for models with 3-door models only

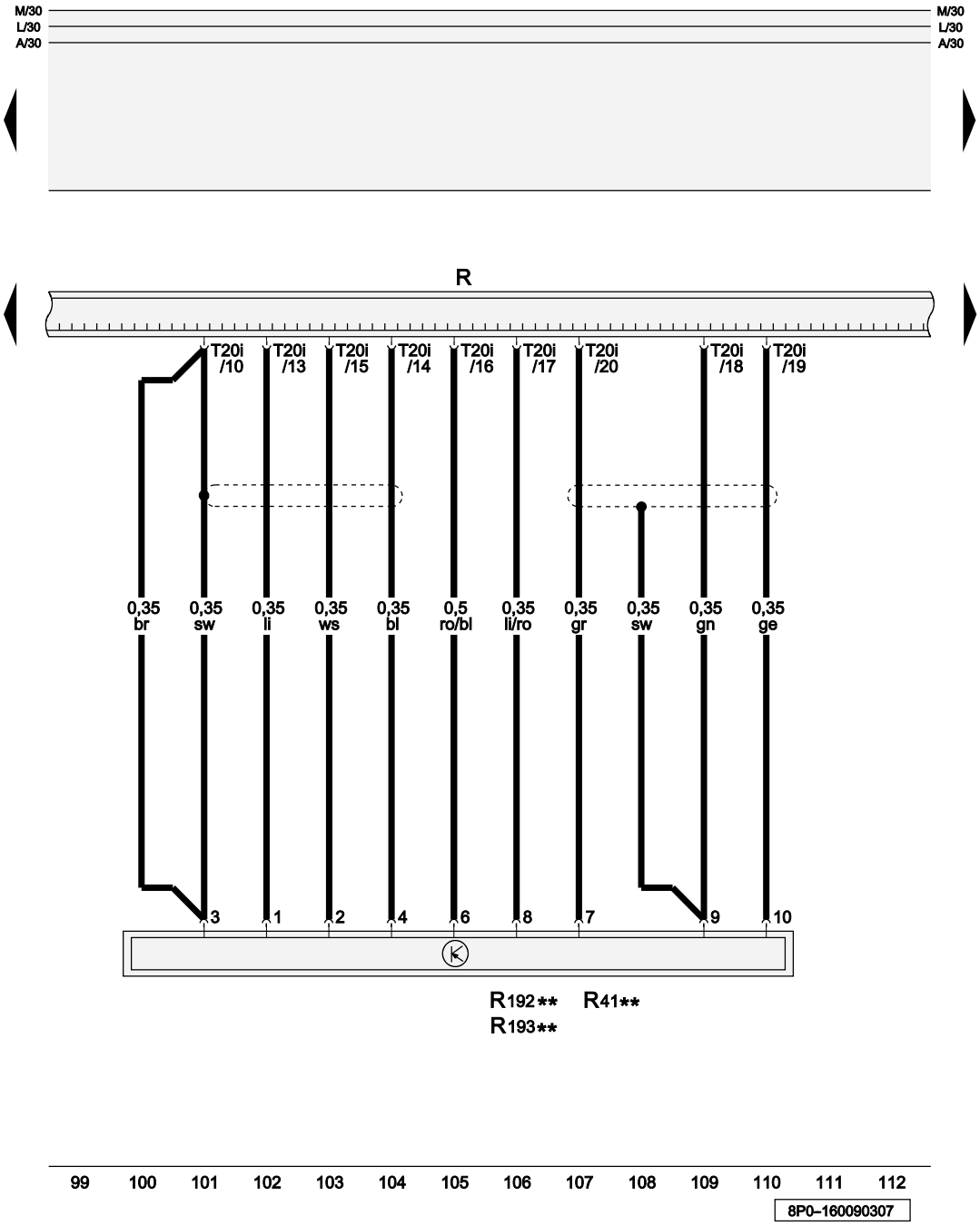


Muting, infotainment CAN bus

J401	Navigation system with CD drive control unit
J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T18a	18-pin connector, black, near glove compartment (connector A)
T20d	20-pin connector, yellow (connector A)
T20h	20-pin connector, black (connector C)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
**	for models with navigation system NS-LOW only
***	only preparation for mobile telephone without hands-free system
****	only preparation for mobile telephone with hands-free system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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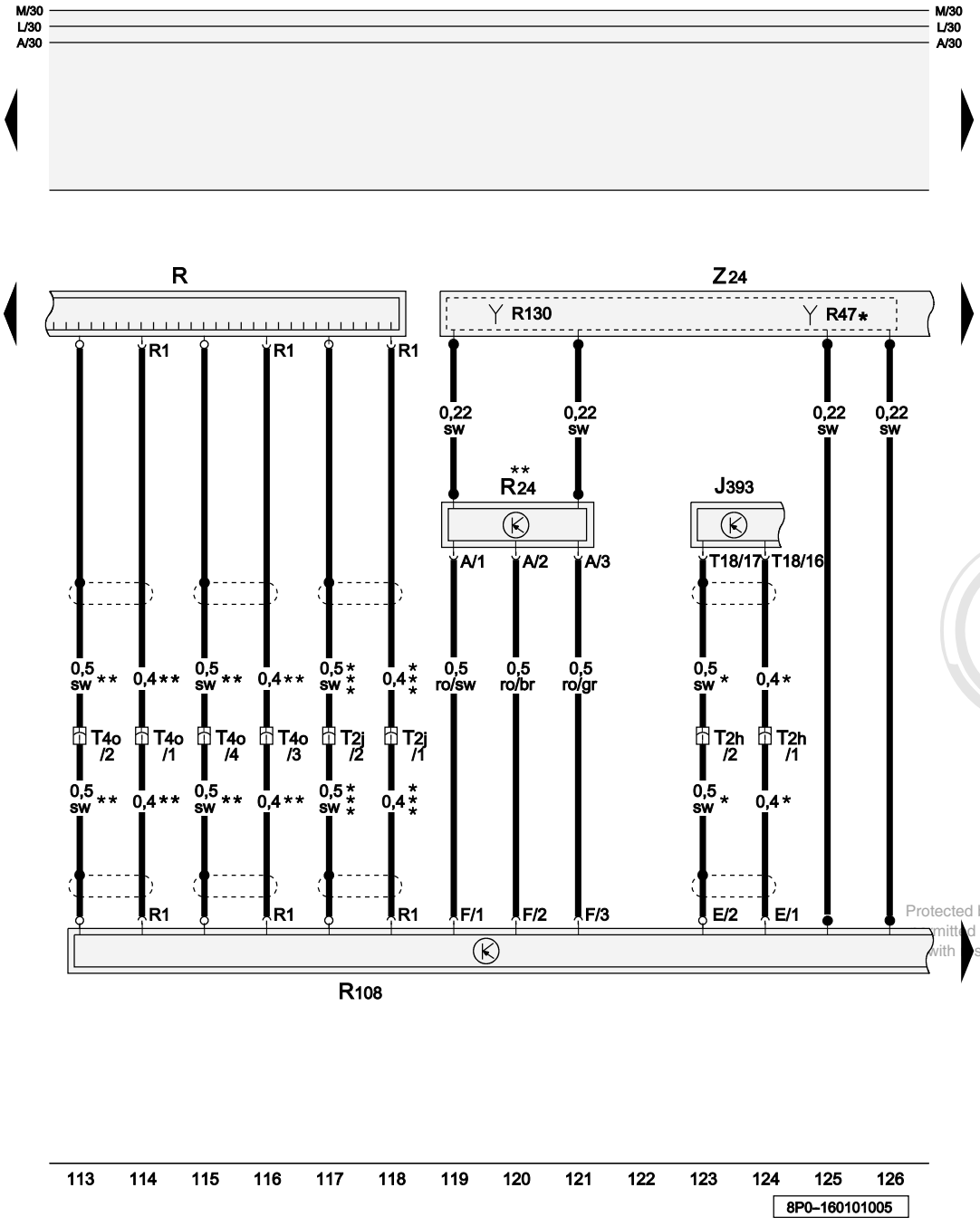


CD changer, iPod holder, USB connection retainer

R	Radio
R41	CD changer
R192	iPod holder
R193	USB connection retainer
T20i	20-pin connector, black (connector A)
**	for models with CD changer or iPod holder or USB connection retainer only

ws	=	white
sw	=	black
ro	=	red
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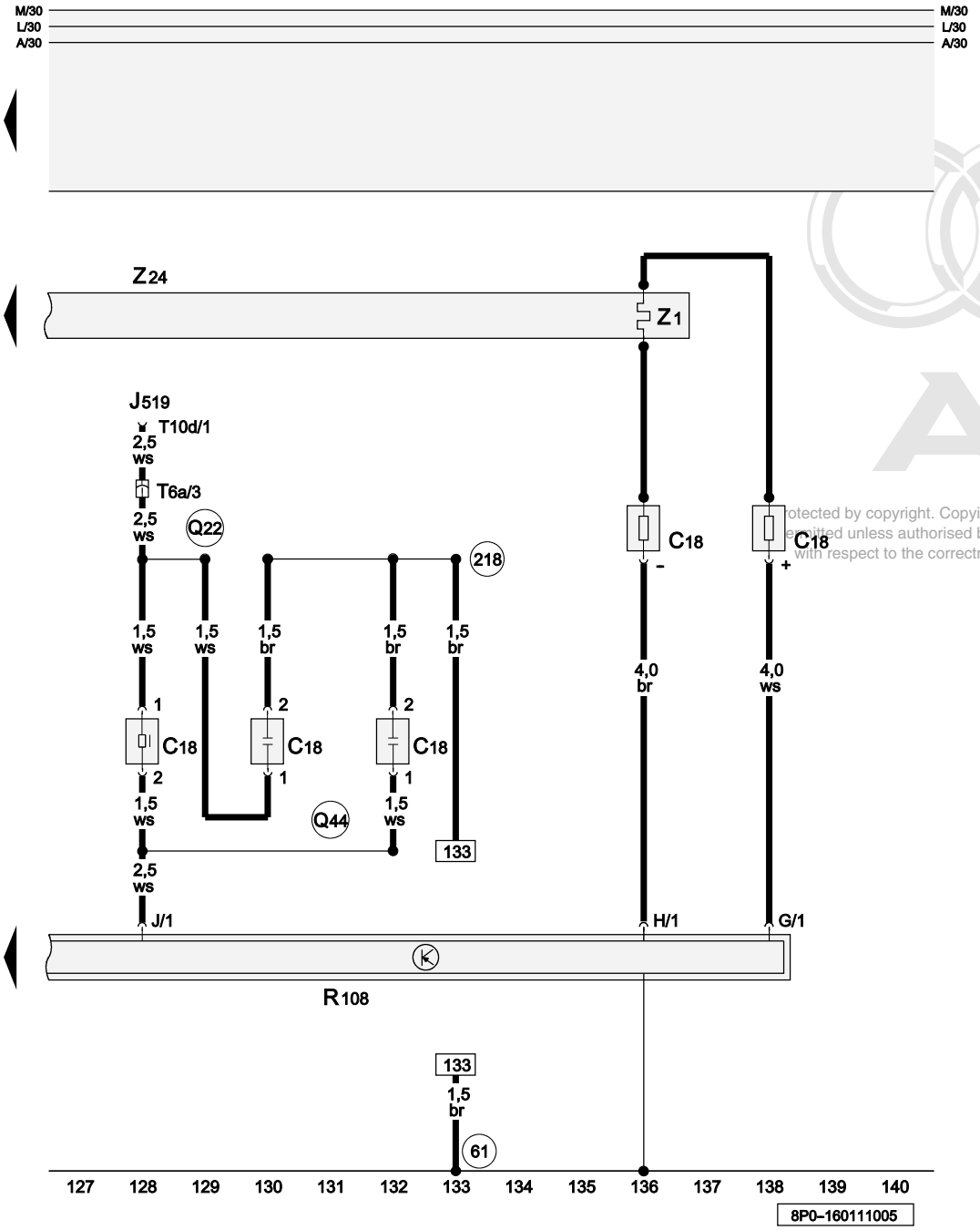


Left aerial module, rear window aerial 1

J393	Convenience system central control unit
R	Radio
R1	Aerial connection
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T2j	2-pin connector, near C-pillar right
T4o	4-pin connector, near C-pillar right
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only
**	not for models with radio chorus only
***	for models with radio chorus only

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Left aerial module, heated rear window

C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness

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or	=	orange
rs	=	pink

Radio with Bose sound system

⇒ **for models with radiogeneration II only**

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

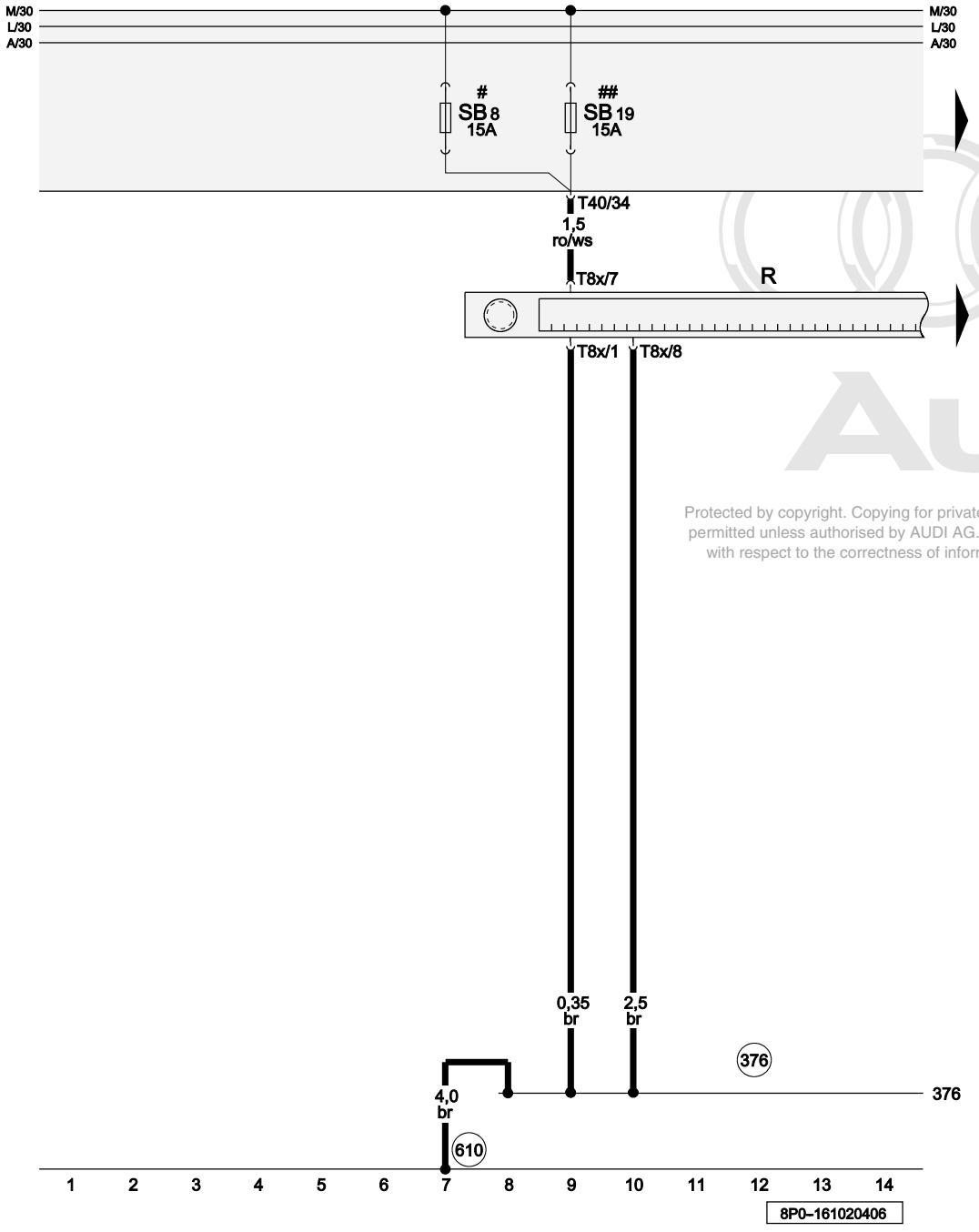
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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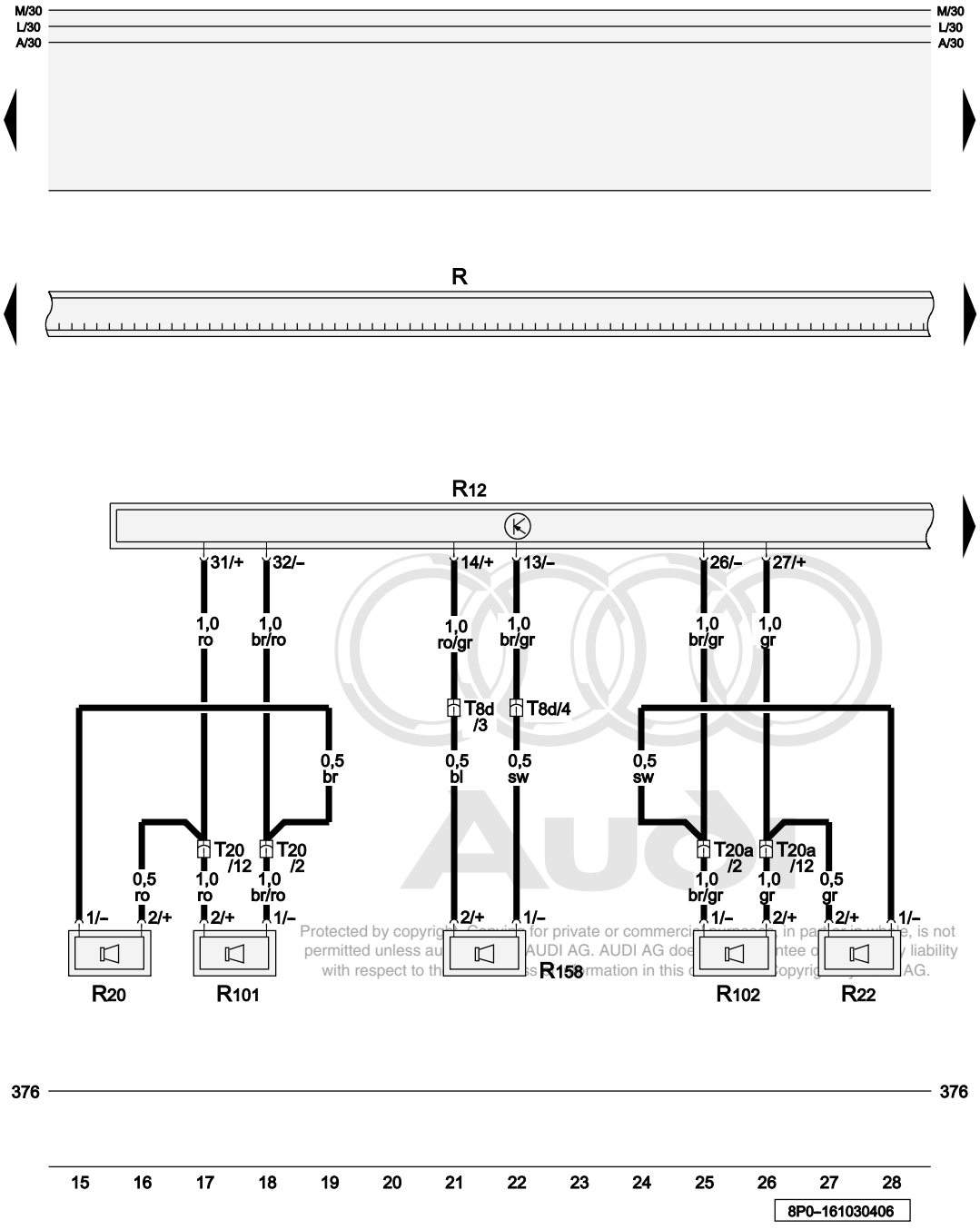


Fuses on fuse holder

R	Radio
SB8	Fuse 8 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8x	8-pin connector, black (connector C)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(376)	Earth connection 11, in main wiring harness
(610)	Earth point (audio), under centre console, front
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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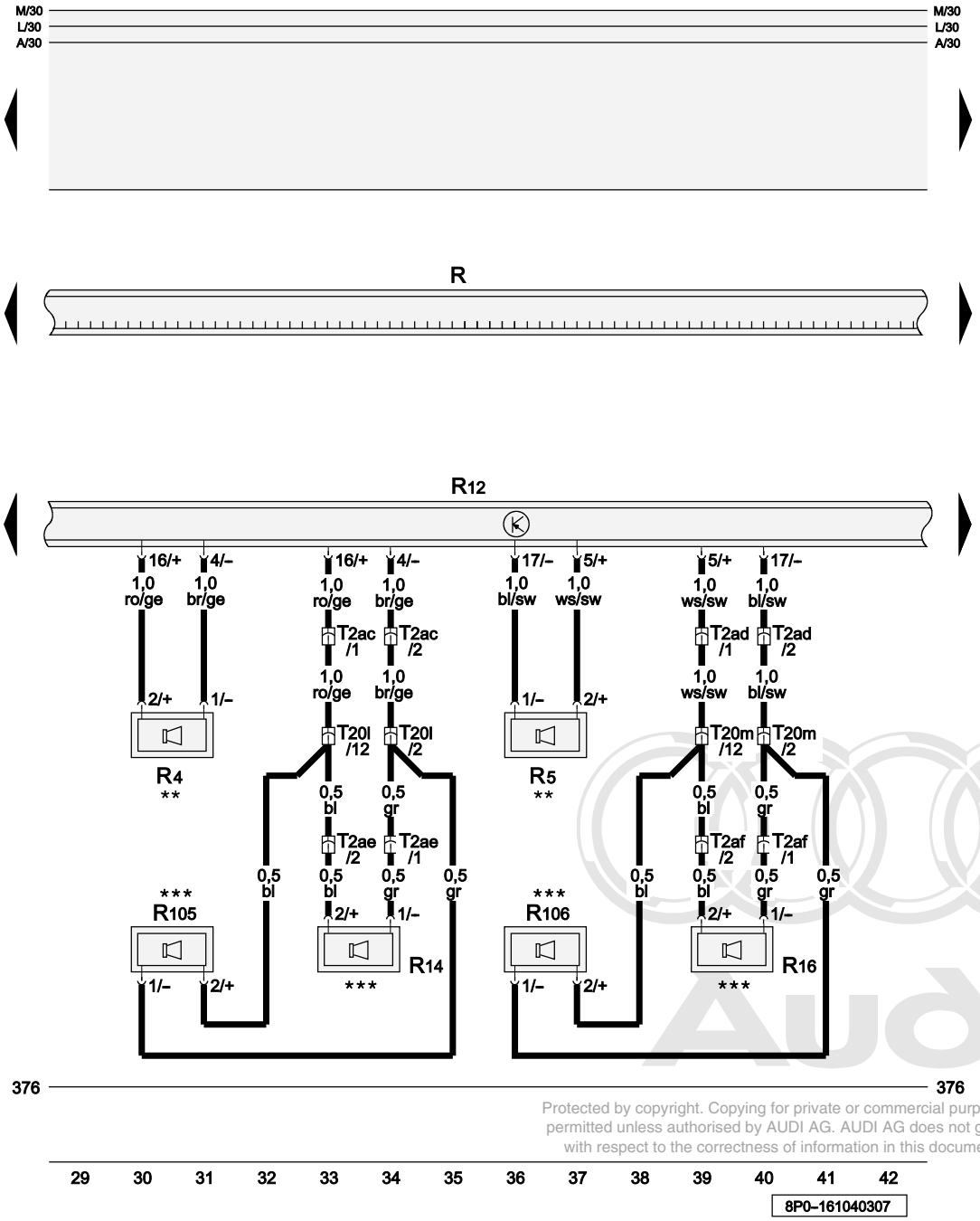


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Front loudspeaker

R	Radio
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

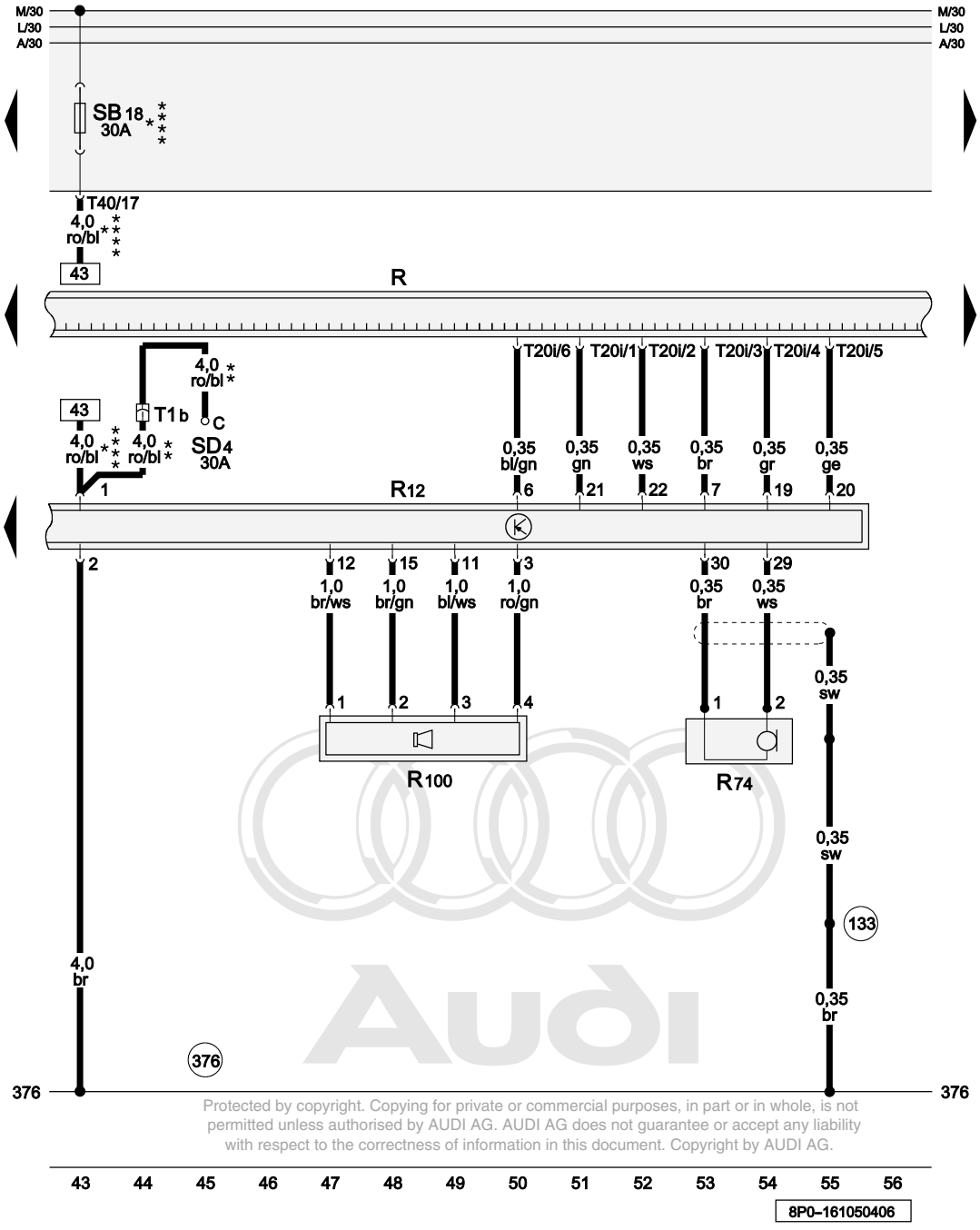


Rear loudspeaker

R	Radio
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
**	for models with 3-door models only
***	for models with 5-door models only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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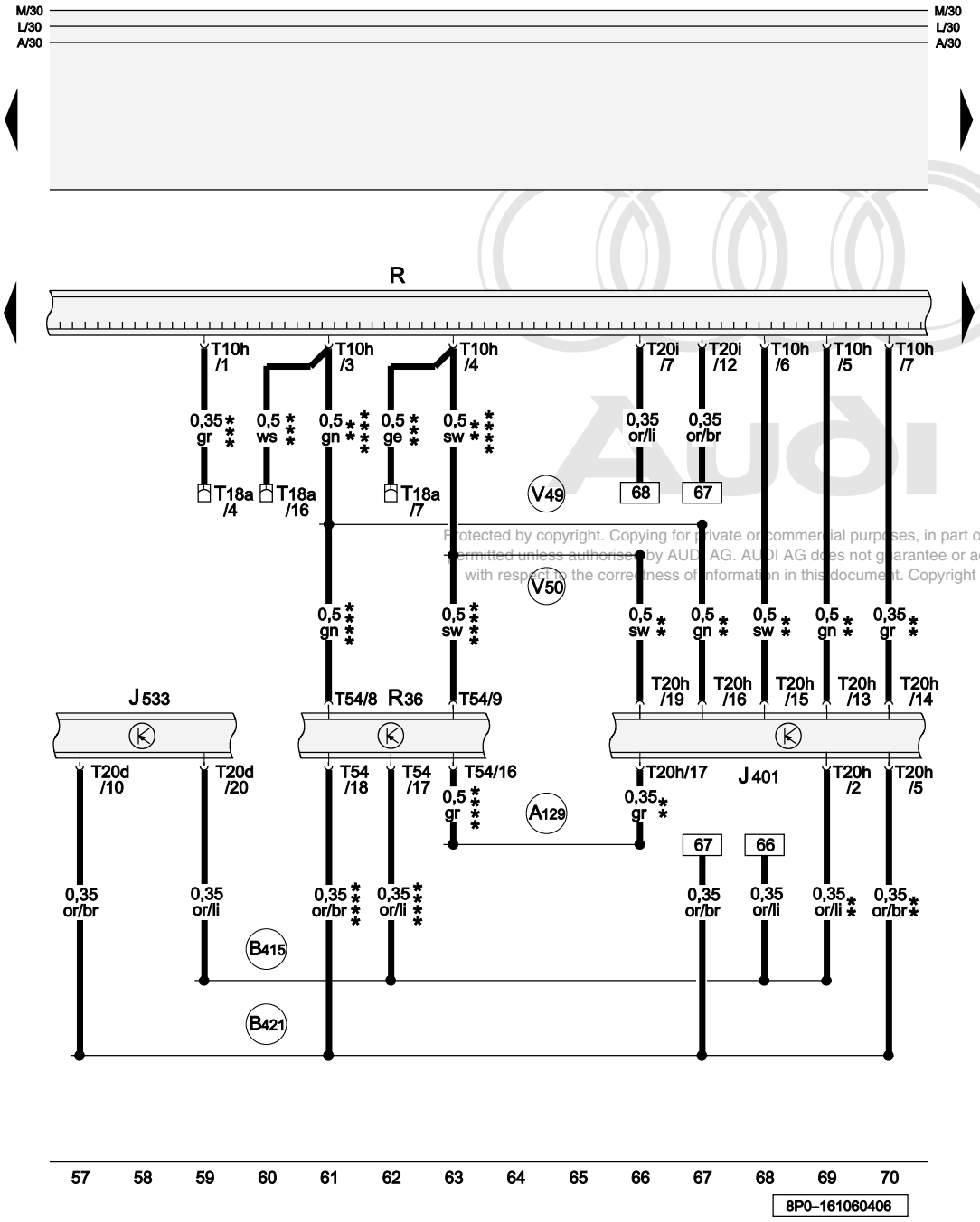


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Bass loudspeaker, iternal microphone

R	Radio
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder B
SD4	Fuse 4 on fuse holder D
T1b	1-pin connector, black, on left C-pillar
T20i	20-pin connector, black (connector A)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(133)	Earth connection, in loudspeaker wiring harness
(376)	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	only for models with battery in luggage compartment, is dropped, from November 2005
****	applicable from November 2005 for models with battery in engine compartment and luggage compartment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

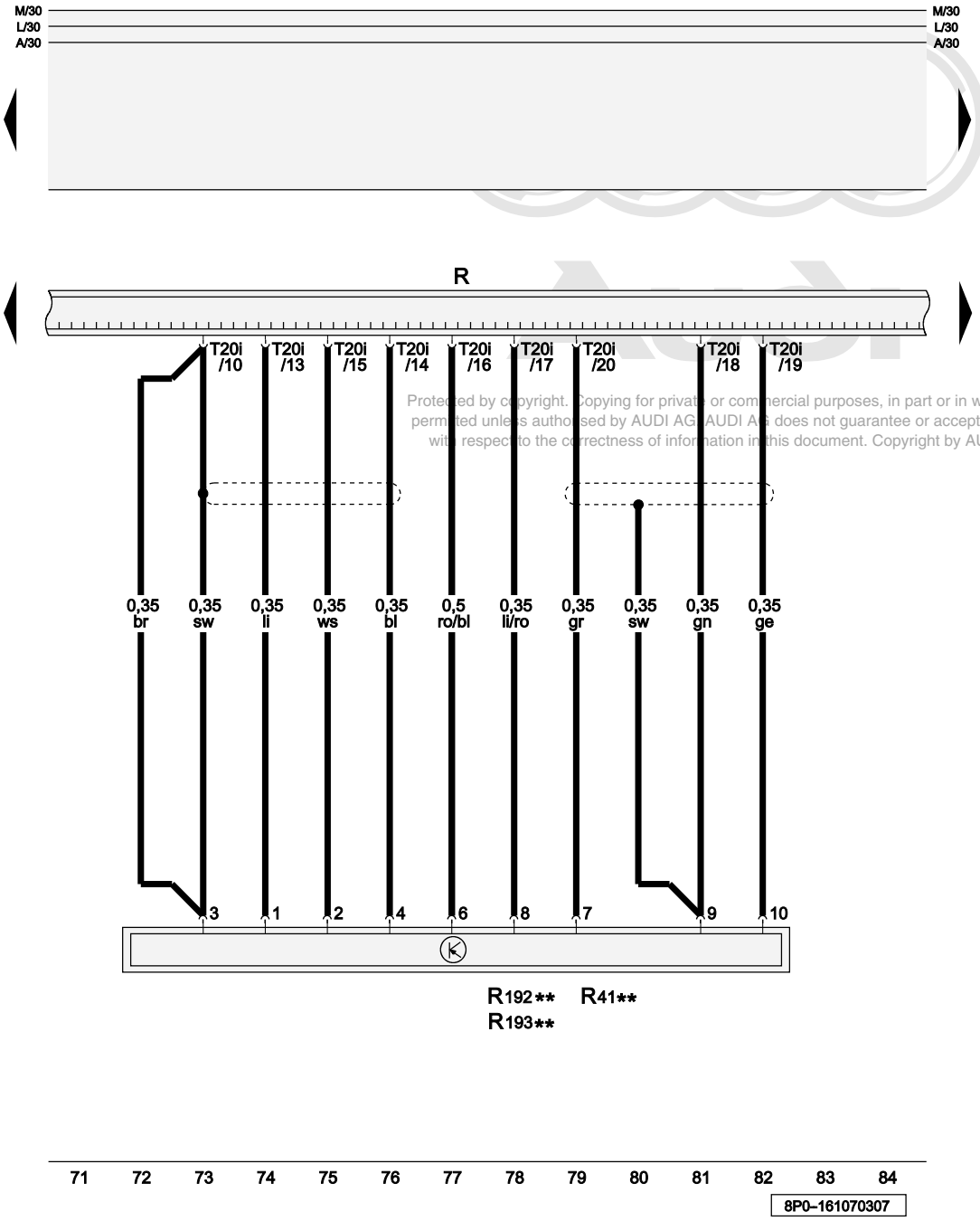


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gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Muting, infotainment CAN bus

J401	Navigation system with CD drive control unit
J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T18a	18-pin connector, black, near glove compartment (connector A)
T20d	20-pin connector, yellow (connector A)
T20h	20-pin connector, black (connector C)
T20i	20-pin connector, black (connector A)
T54	54-pin connector, black (connector A)
A129	Connection (muting), in dash panel wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
**	for models with navigation system NS-LOW only
***	only preparation for mobile telephone without hands-free system
****	only preparation for mobile telephone with hands-free system

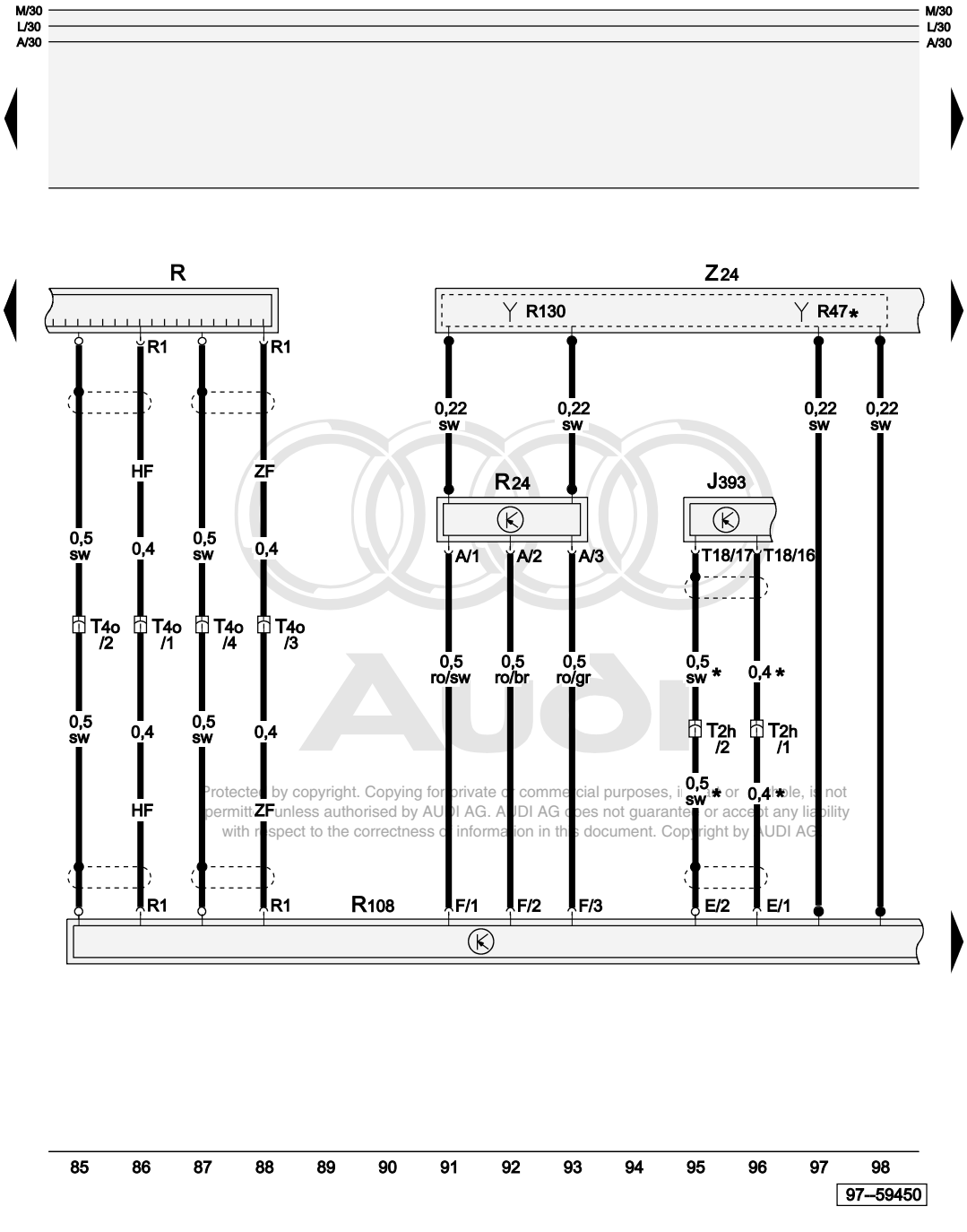


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CD changer, iPod holder, USB connection retainer

R	Radio
R41	CD changer
R192	iPod holder
R193	USB connection retainer
T20i	20-pin connector, black (connector A)
**	for models with CD changer or iPod holder or USB connection retainer only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

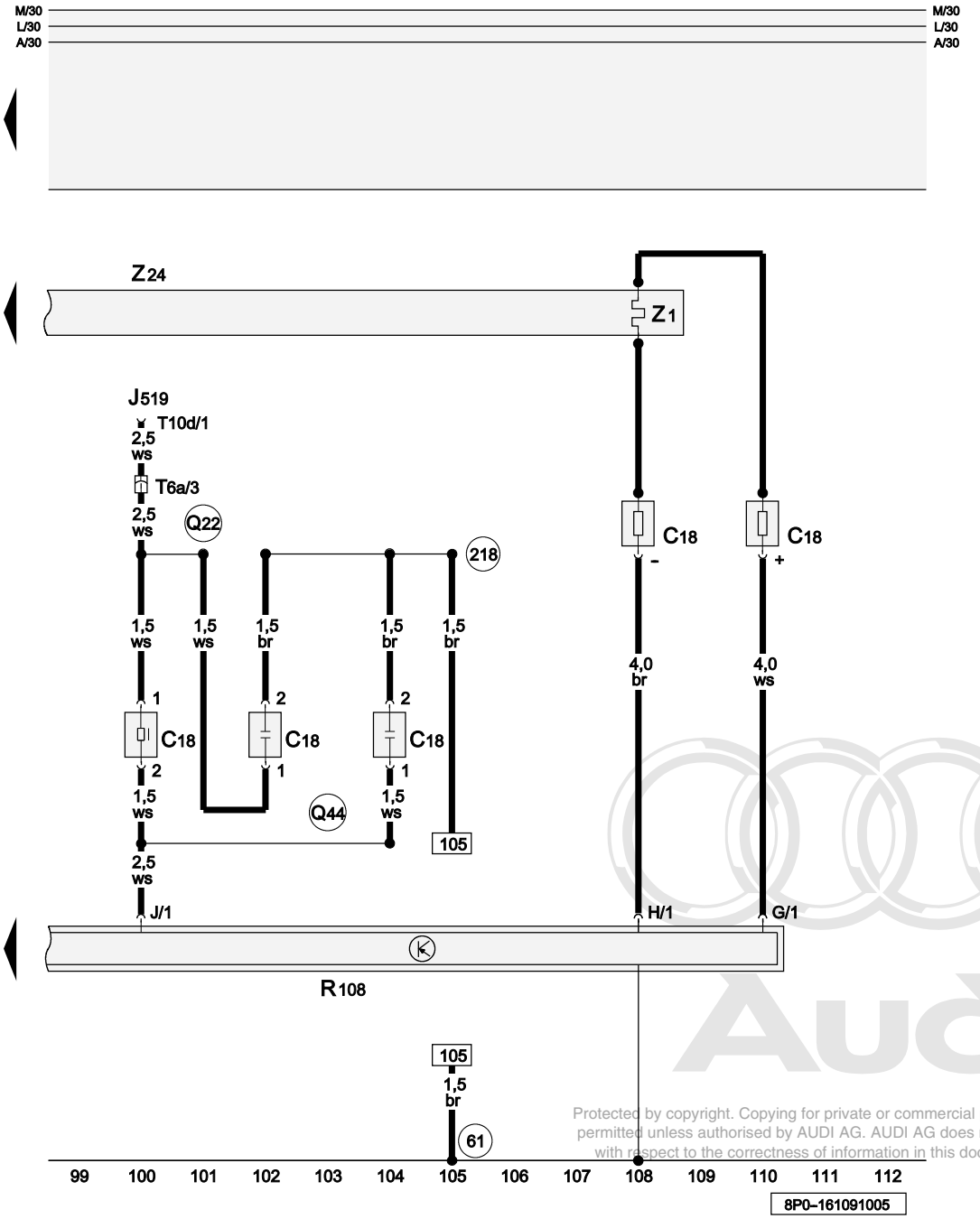


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Aerial amplifier, heated rear window with window aerial

J393	Convenience system central control unit
R	Radio
R1	Aerial connection
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T4o	4-pin connector, near C-pillar right
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Left aerial module, heated rear window

C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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Radio and navigation system (models for Japan)

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

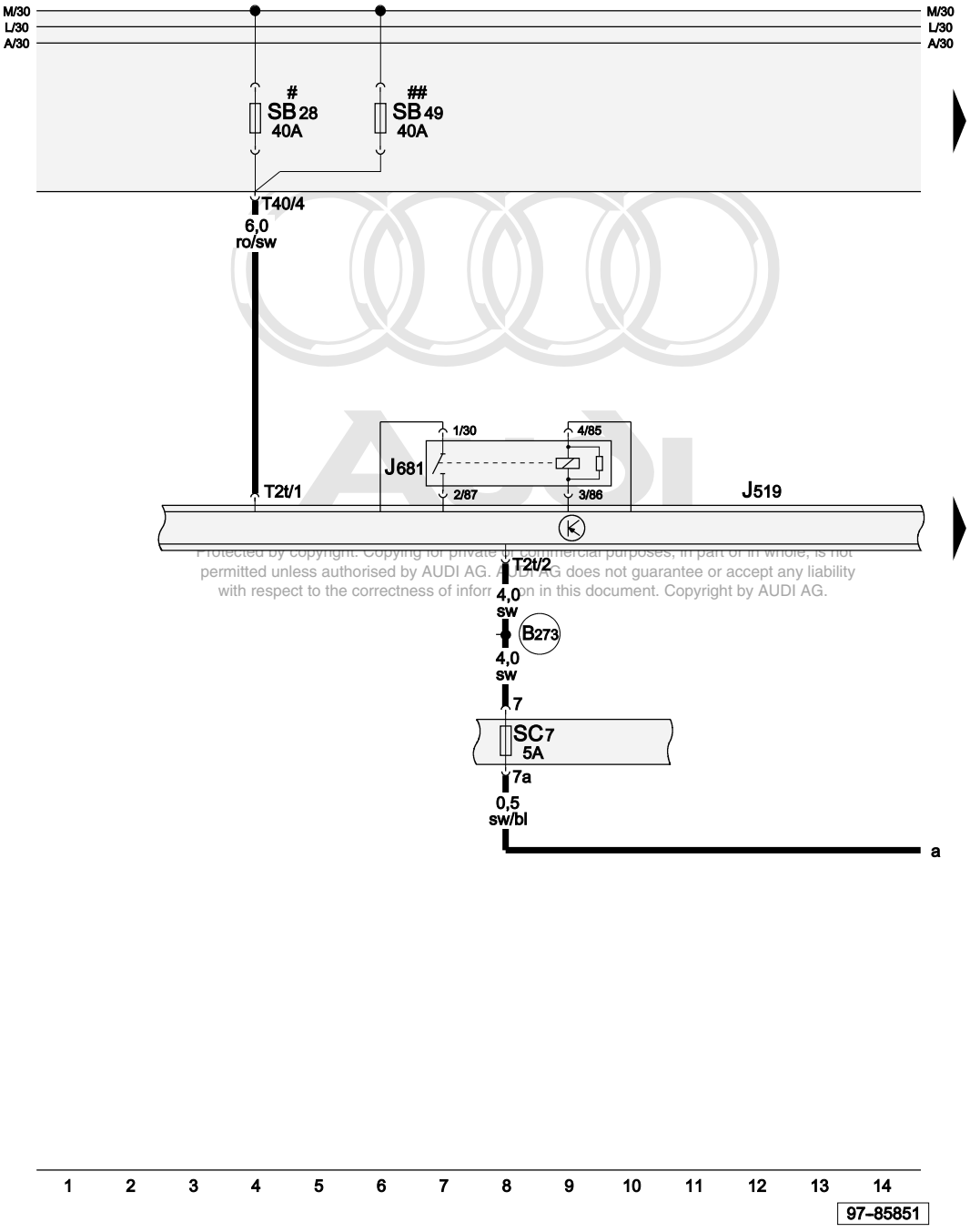
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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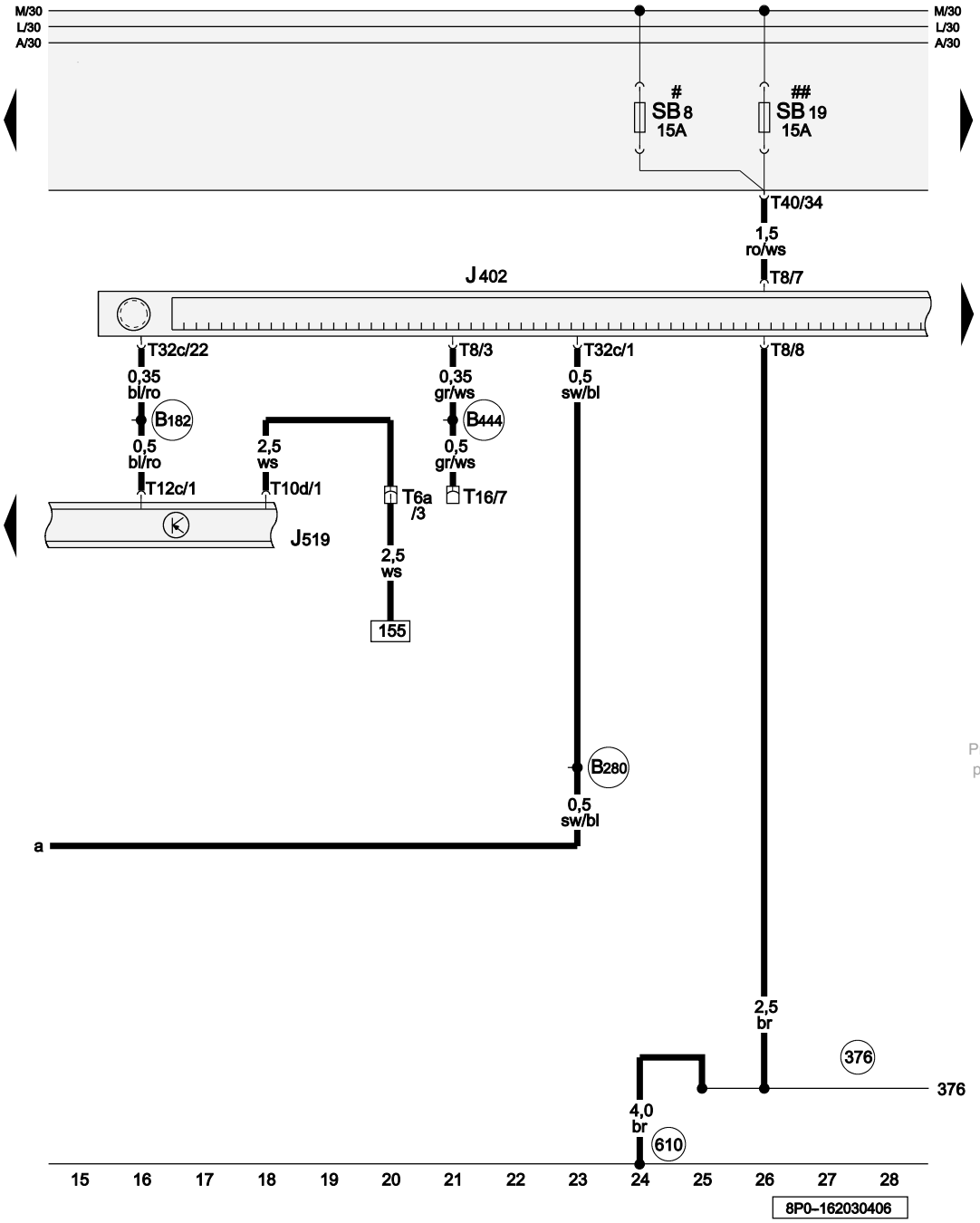


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Voltage supply, onboard supply control unit

J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
B273	Positive connection (15), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws	=	white
sw	=	black
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bl	=	blue
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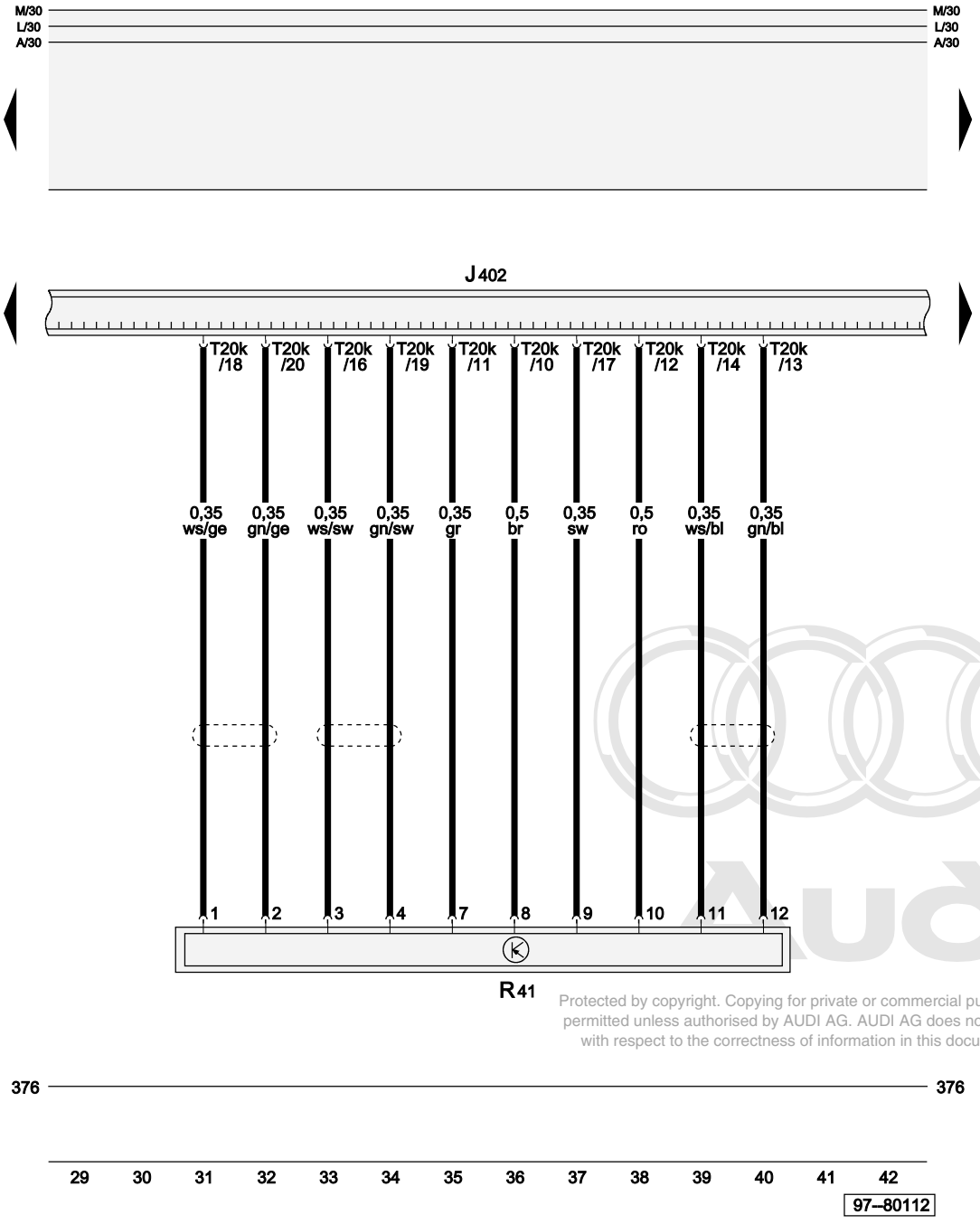


Voltage supply, onboard supply control unit

J402	Navigation operating electronics control unit
J519	Onboard supply control unit
SB8	Fuse 8 on fuse holder B
SB19	Fuse 19 on fuse holder B
T6a	6-pin connector, black, on left C-pillar
T8	8-pin connector, black (connector A)
T10d	10-pin connector, black (connector K)
T12c	12-pin connector, black (connector B)
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T32c	32-pin connector, grey (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
B182	Connection (RL), in interior wiring harness
B280	Positive connection 4 (15a), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

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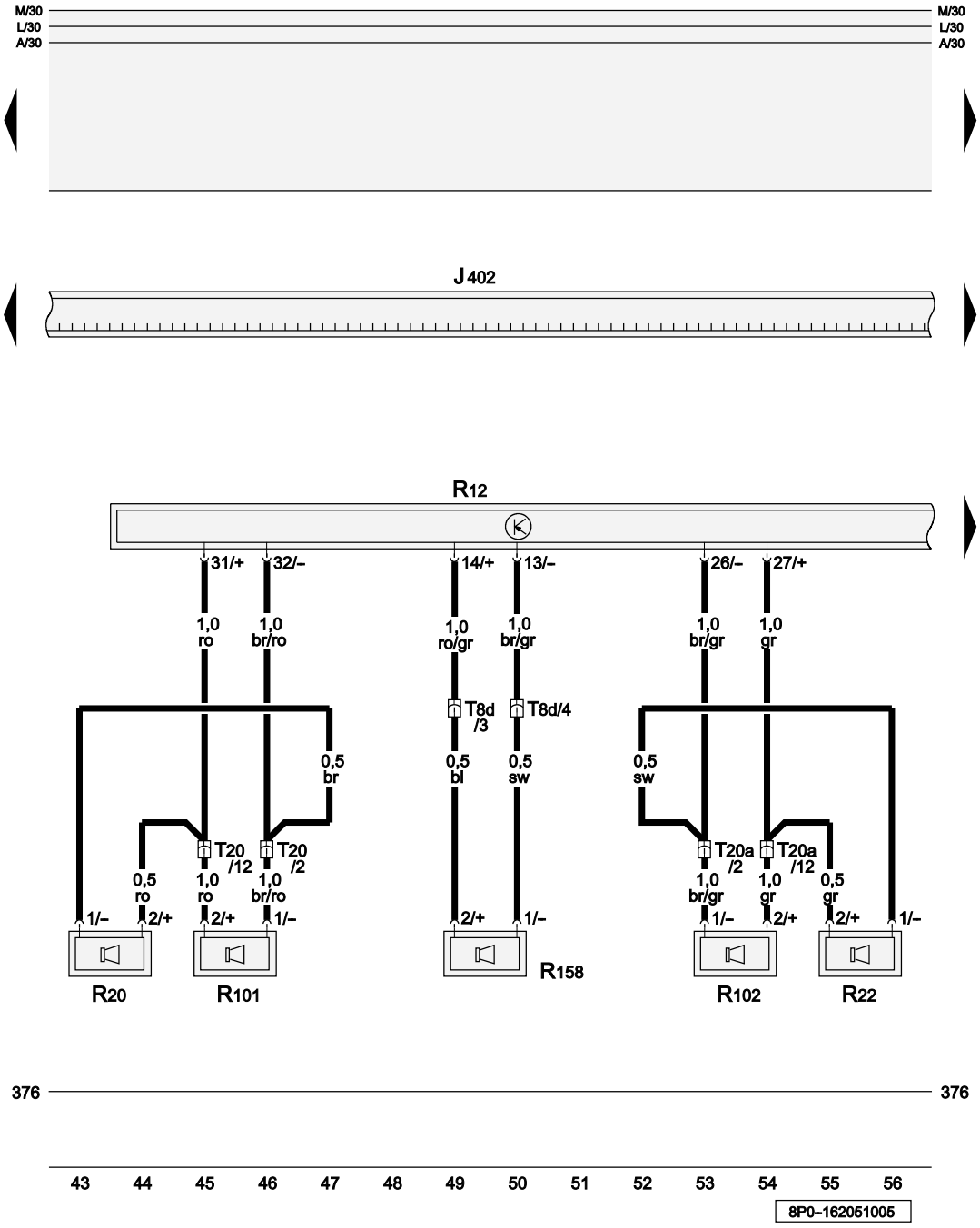


CD changer

J402	Navigation operating electronics control unit
R41	CD changer
T20k	20-pin connector, black (connector C)

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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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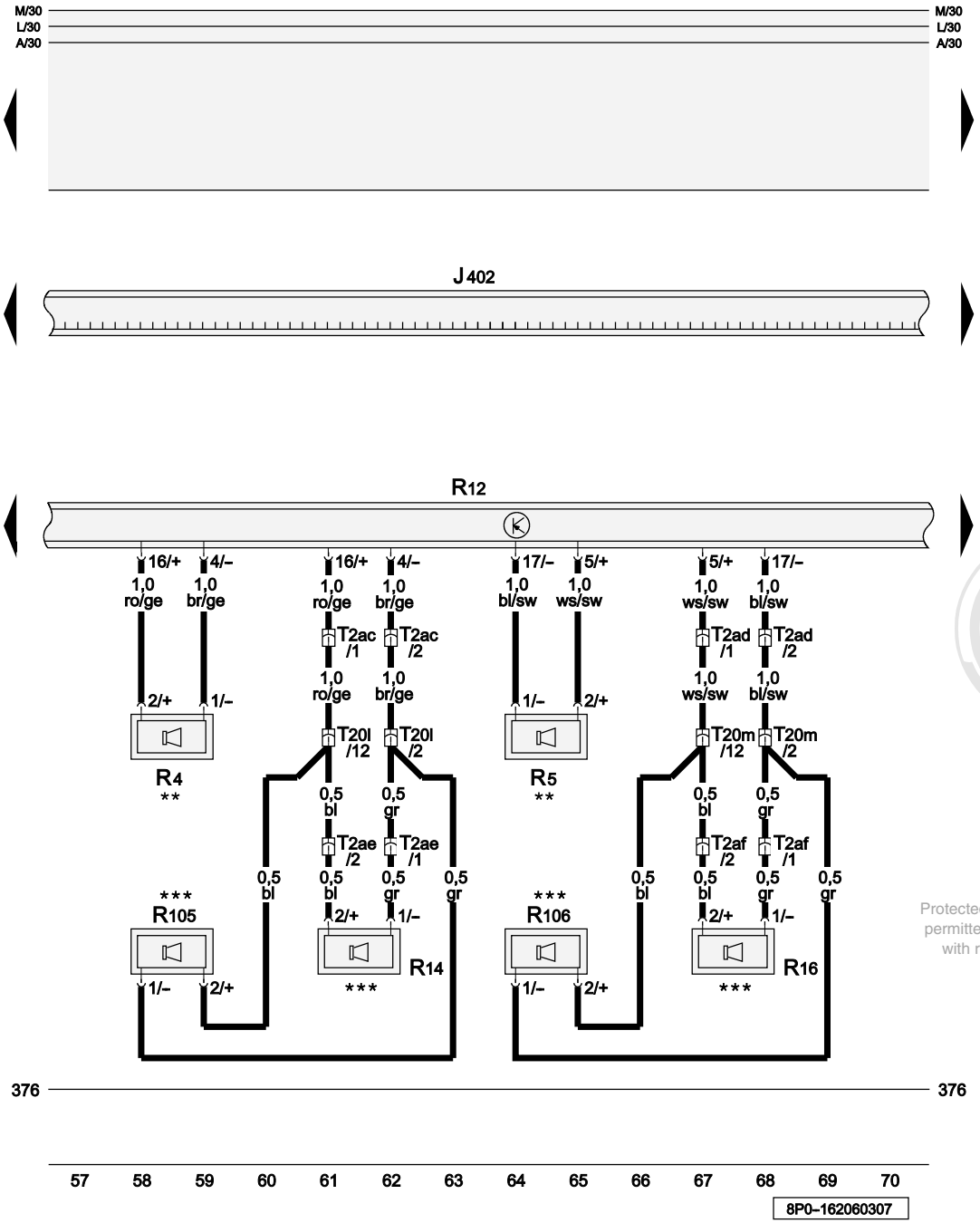


Front loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right

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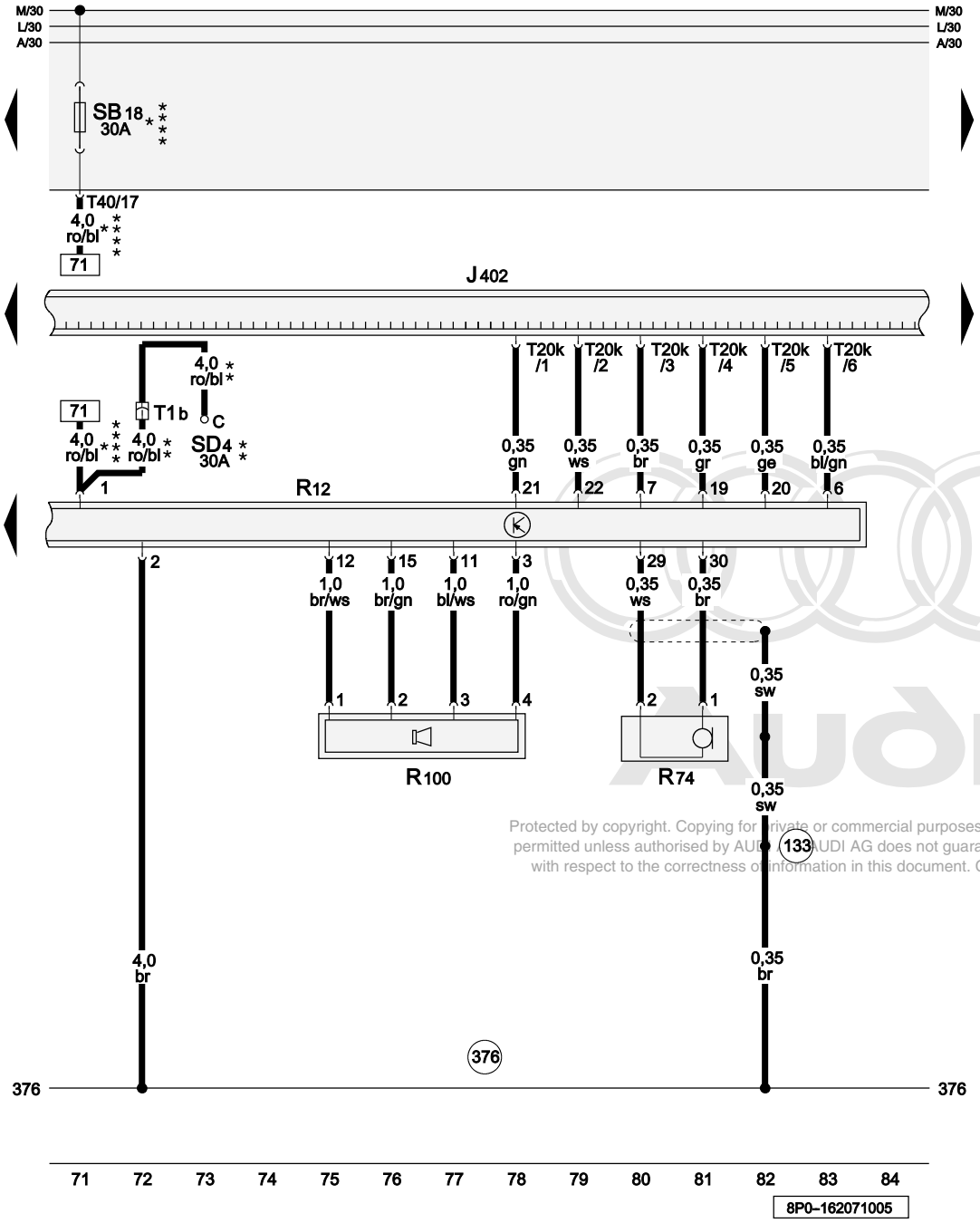


Rear loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
**	for models with 3-door models only
***	for models with 5-door models only

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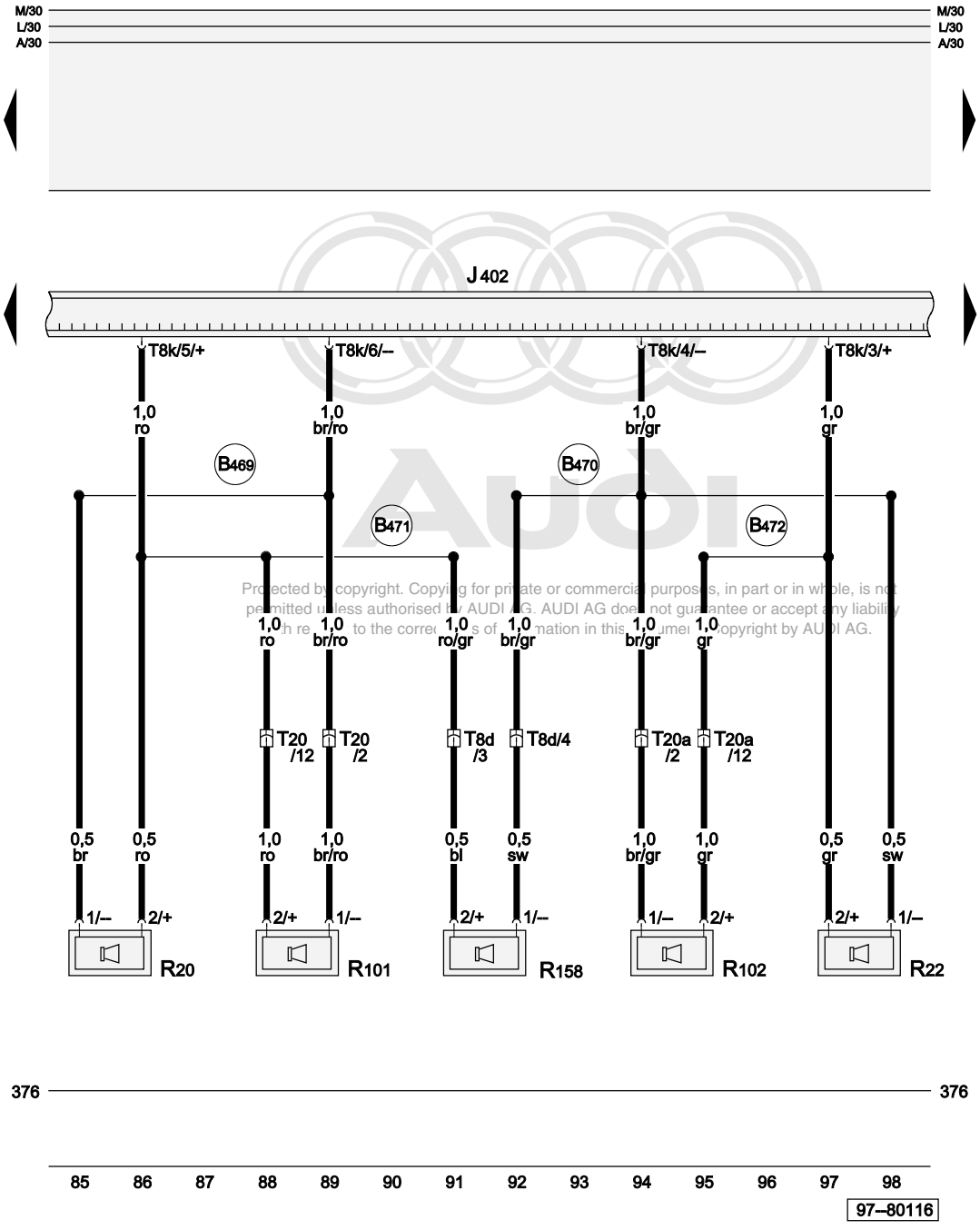
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li	=	purple
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or	=	orange
rs	=	pink



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Internal microphone, bass loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder B
SD4	Fuse 4 on fuse holder D
T1b	1-pin connector, black, on left C-pillar
T20k	20-pin connector, black (connector C)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	only for models with battery in luggage compartment, is dropped, from November 2005
****	applicable from November 2005 for models with battery in engine compartment and luggage compartment

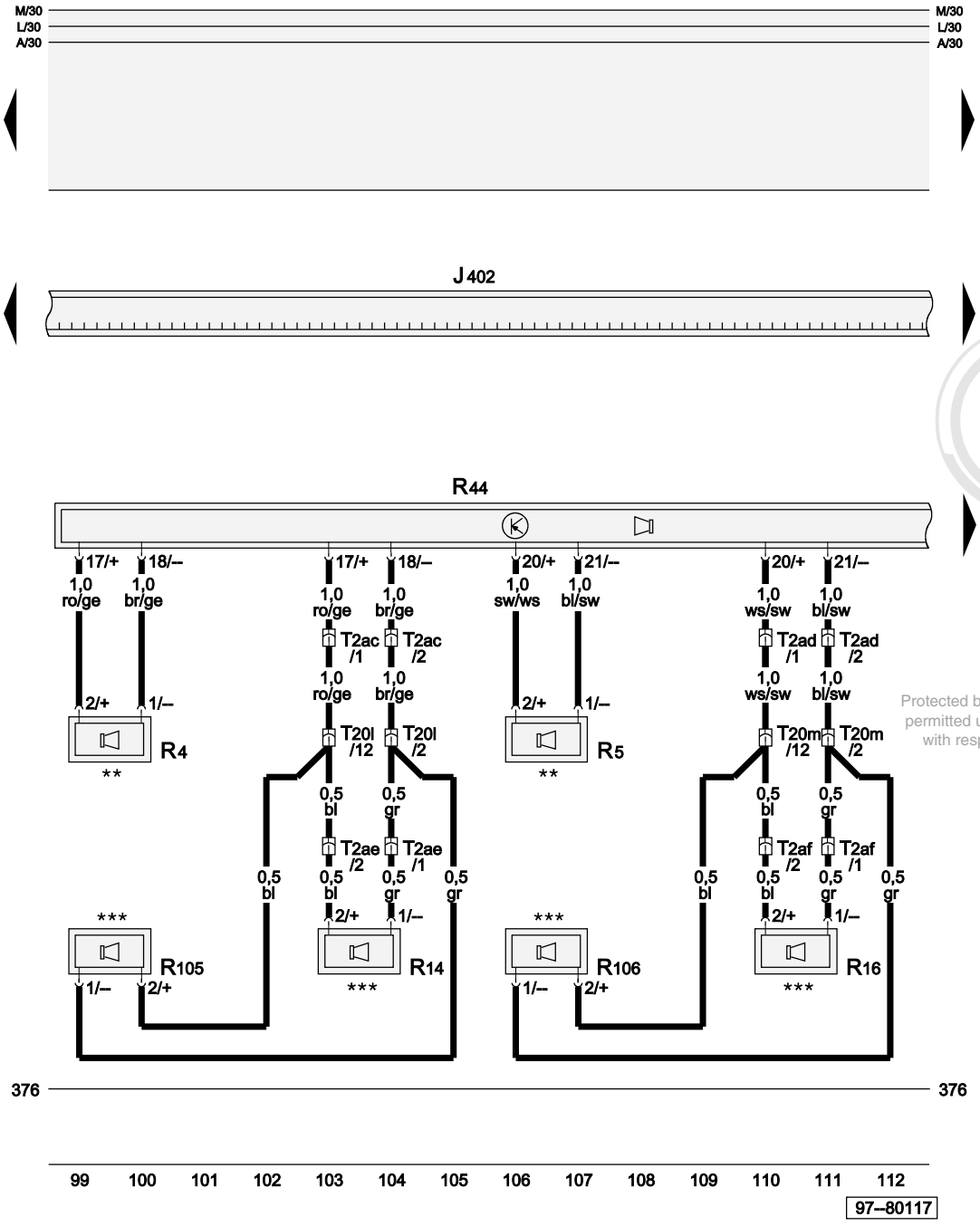


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Front loudspeaker without Bose sound system

J402	Navigation operating electronics control unit
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8k	8-pin connector, brown (connector B)
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B472	Connection 8 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

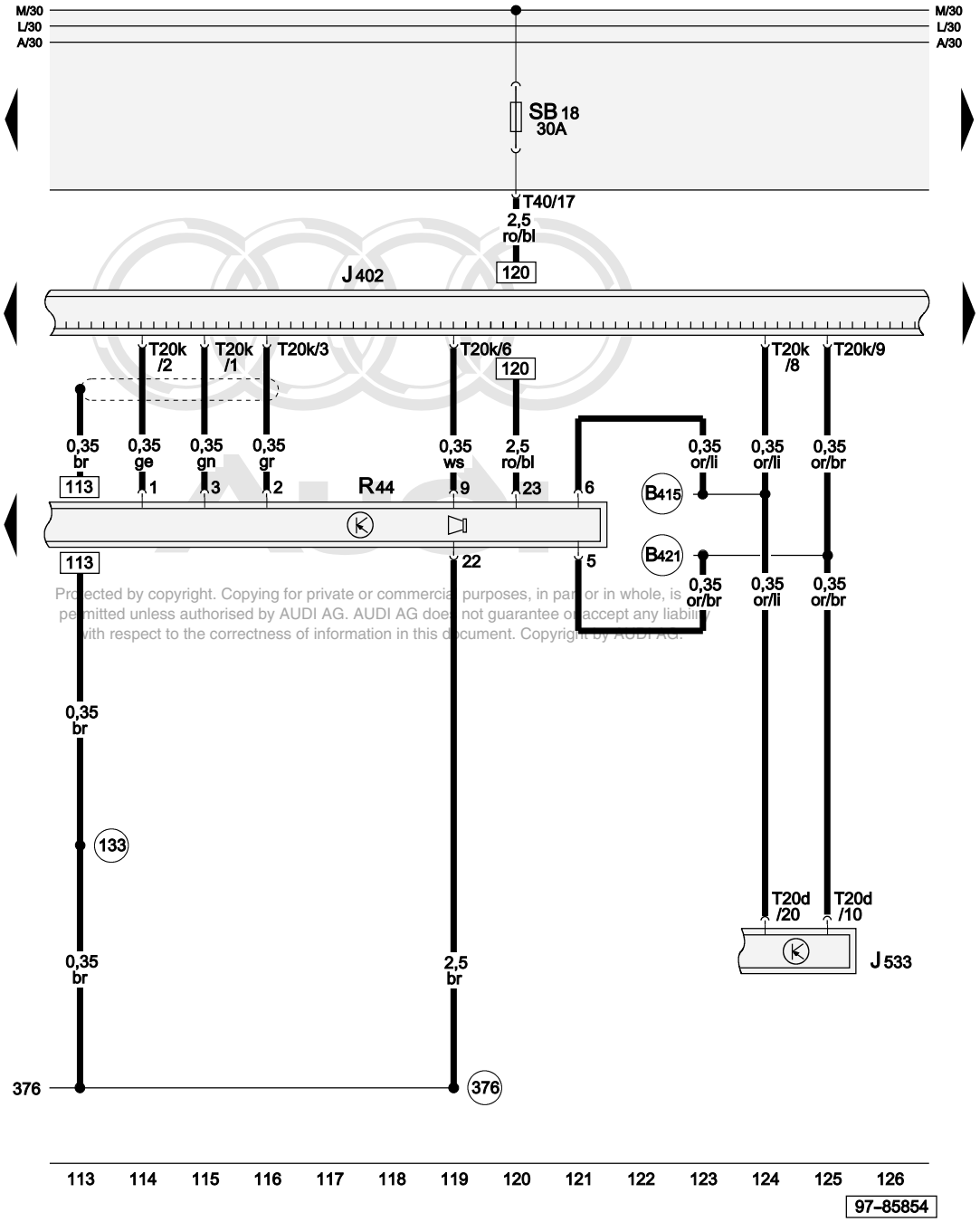


Rear loudspeaker without Bose sound system

J402	Navigation operating electronics control unit
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
**	for models with 3-door models only
***	for models with 5-door models only

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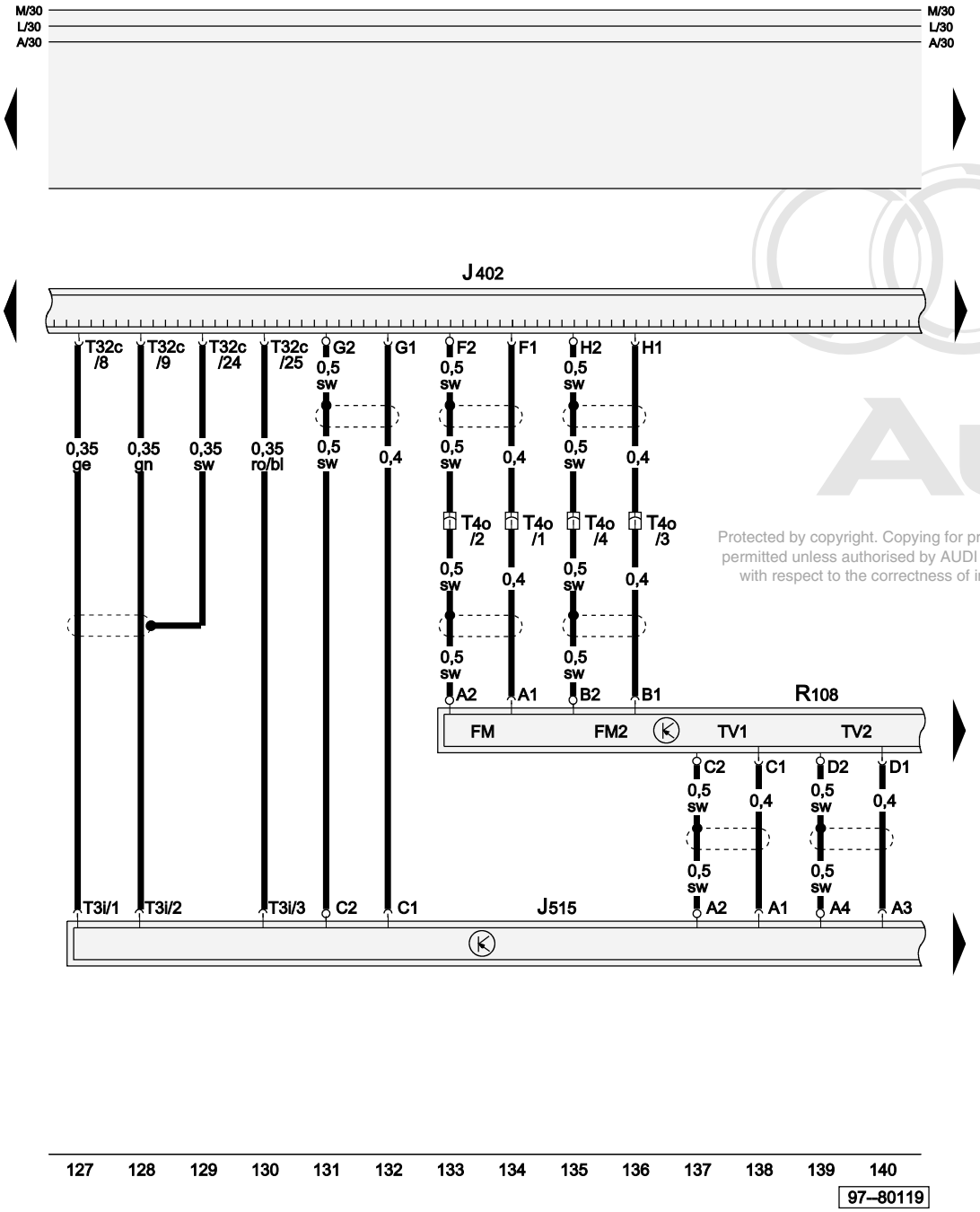


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Amplifier with bass loudspeaker, on left in luggage compartment

J402	Navigation operating electronics control unit
J533	Data bus diagnostic interface
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T20k	20-pin connector, black (connector C)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

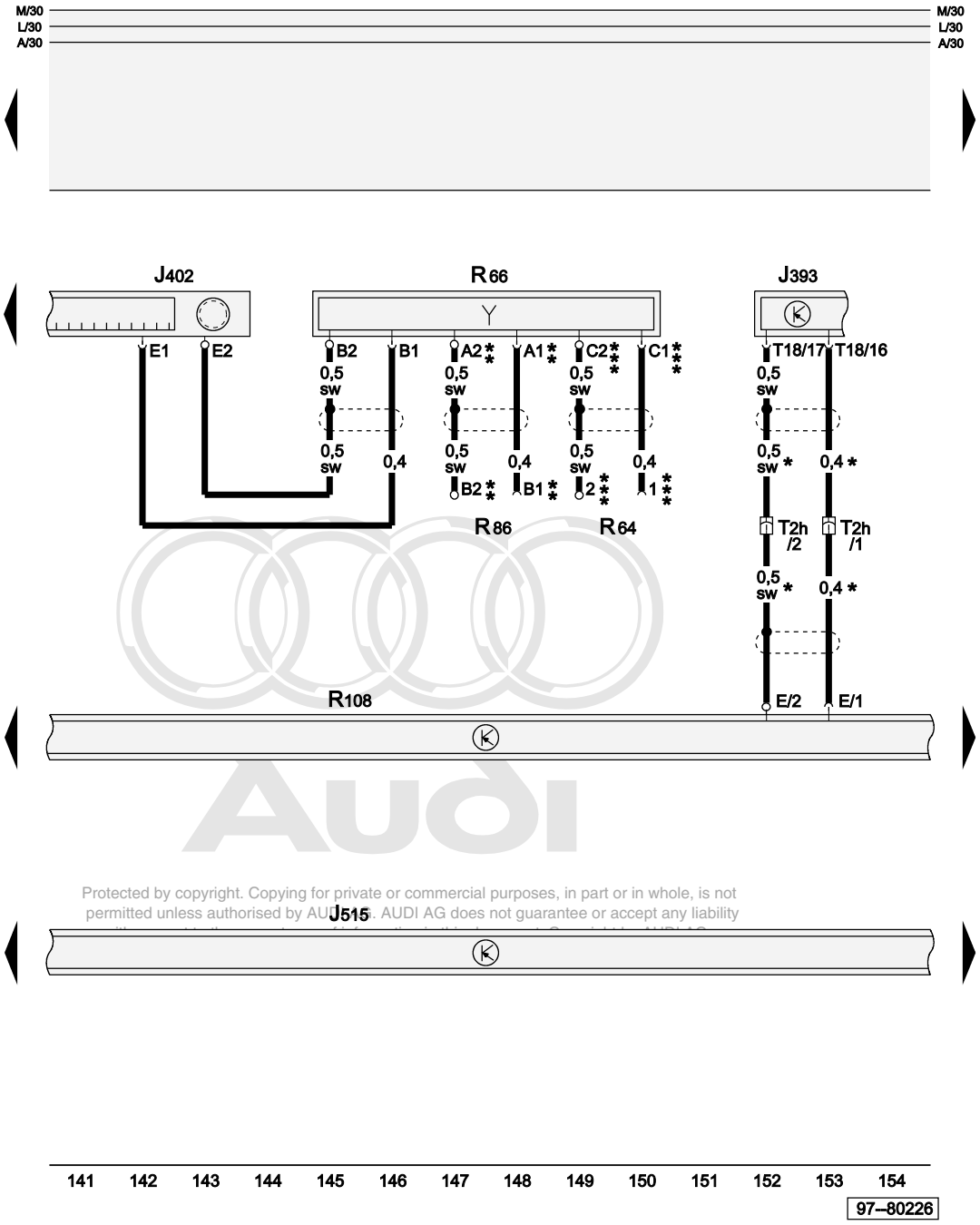


Left aerial module

J402	Navigation operating electronics control unit
J515	Aerial selection control unit
R108	Left aerial module
T3i	3-pin connector, black (connector D)
T4o	4-pin connector, near C-pillar right
T32c	32-pin connector, grey (connector D)

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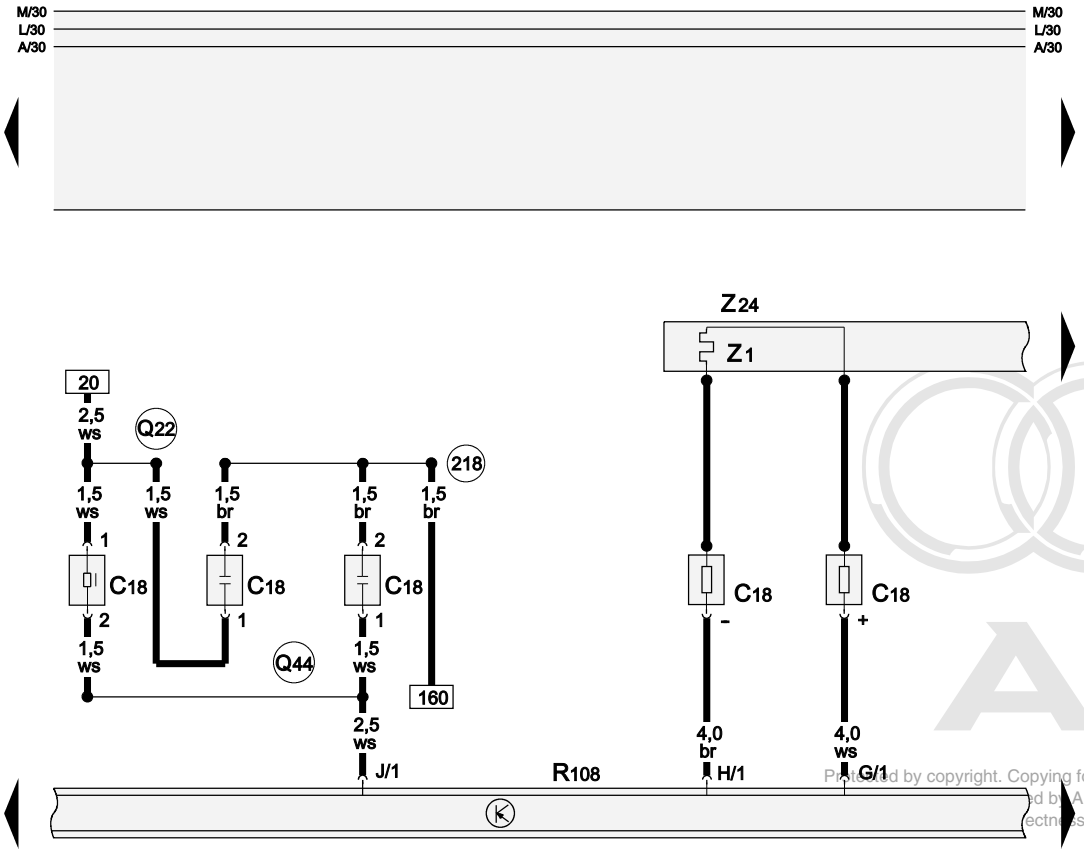


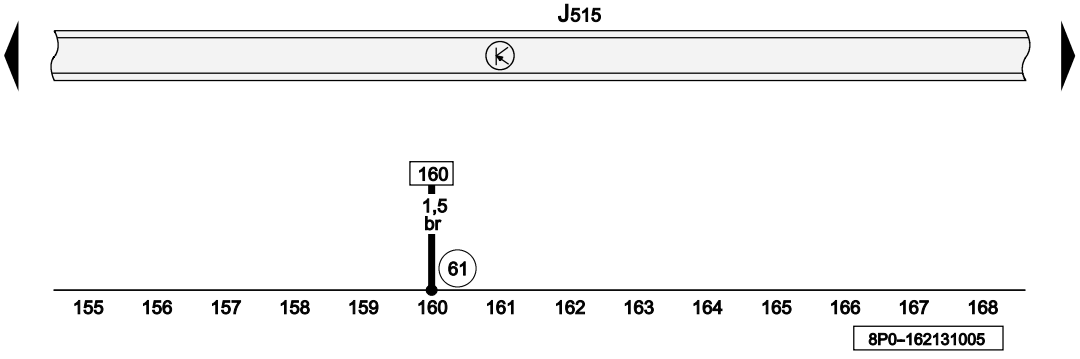
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Left aerial module, telephone, navigation system and auxiliary heater aerial

J393	Convenience system central control unit
J402	Navigation operating electronics control unit
J515	Aerial selection control unit
R64	Remote control receiver for auxiliary heating
R66	Telephone, navigation system and auxiliary heater aerial
R86	Aerial amplifier for mobile telephone
R108	Left aerial module
T2h	2-pin connector, on right C-pillar
T18	18-pin connector, brown (connector A)
*	for models with central locking or anti-theft alarm system only
**	for models with preparation for mobile telephone only
***	for models with auxiliary heating only

ws	=	white
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bl	=	blue
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or	=	orange
rs	=	pink



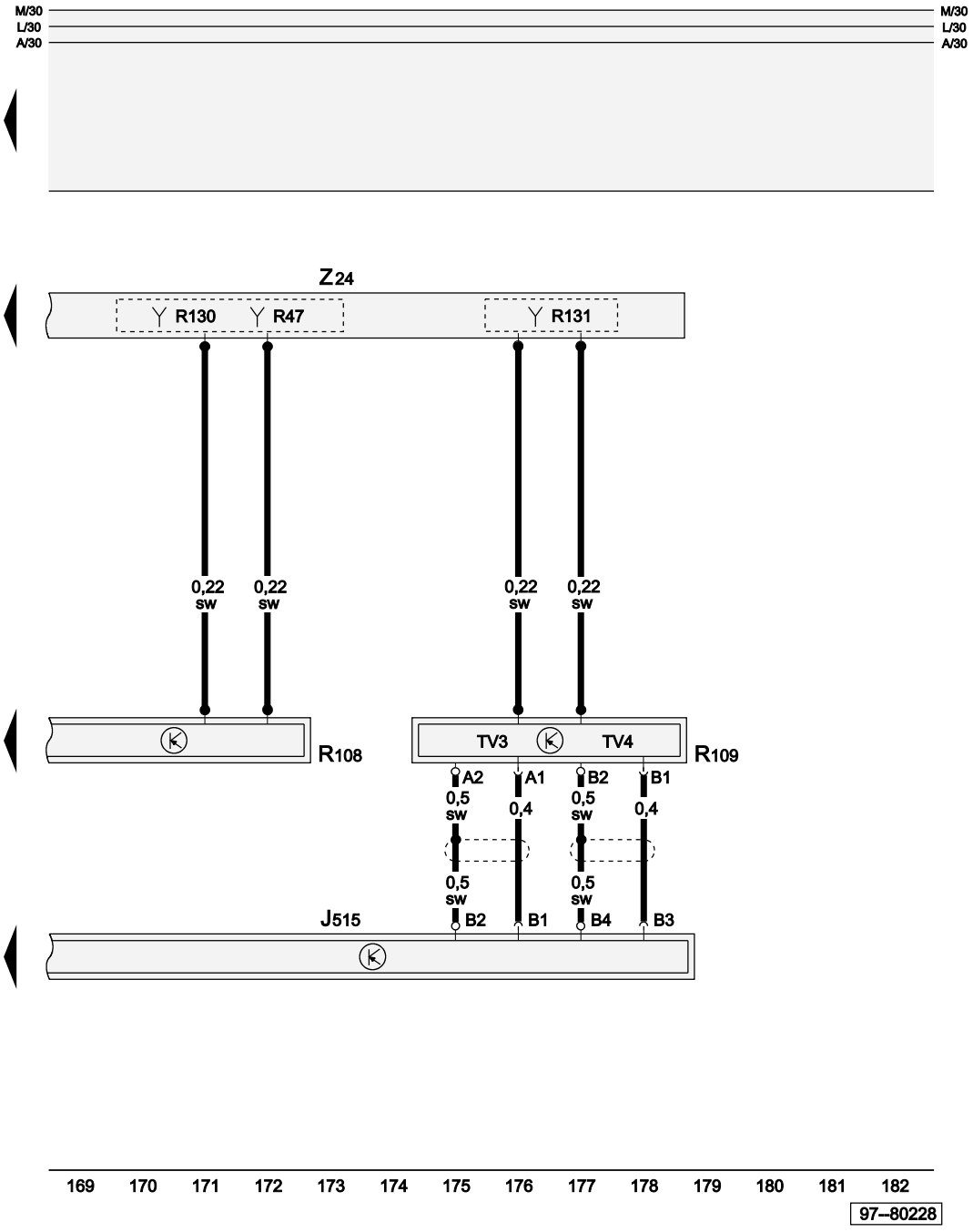


Left aerial module, window aerial suppression filter

C18	Window aerial suppression filter
J515	Aerial selection control unit
R108	Left aerial module
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness

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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Left aerial module, rear window aerial 1, rear window aerial 2

J515	Aerial selection control unit
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R109	Right aerial module
R130	Rear window aerial 1
R131	Rear window aerial 2
Z24	Heated rear window with window aerial

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rs	=	pink

Radio

⇒ **for models with US equipment only**

⇒ **for models with radiogeneration II only**

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

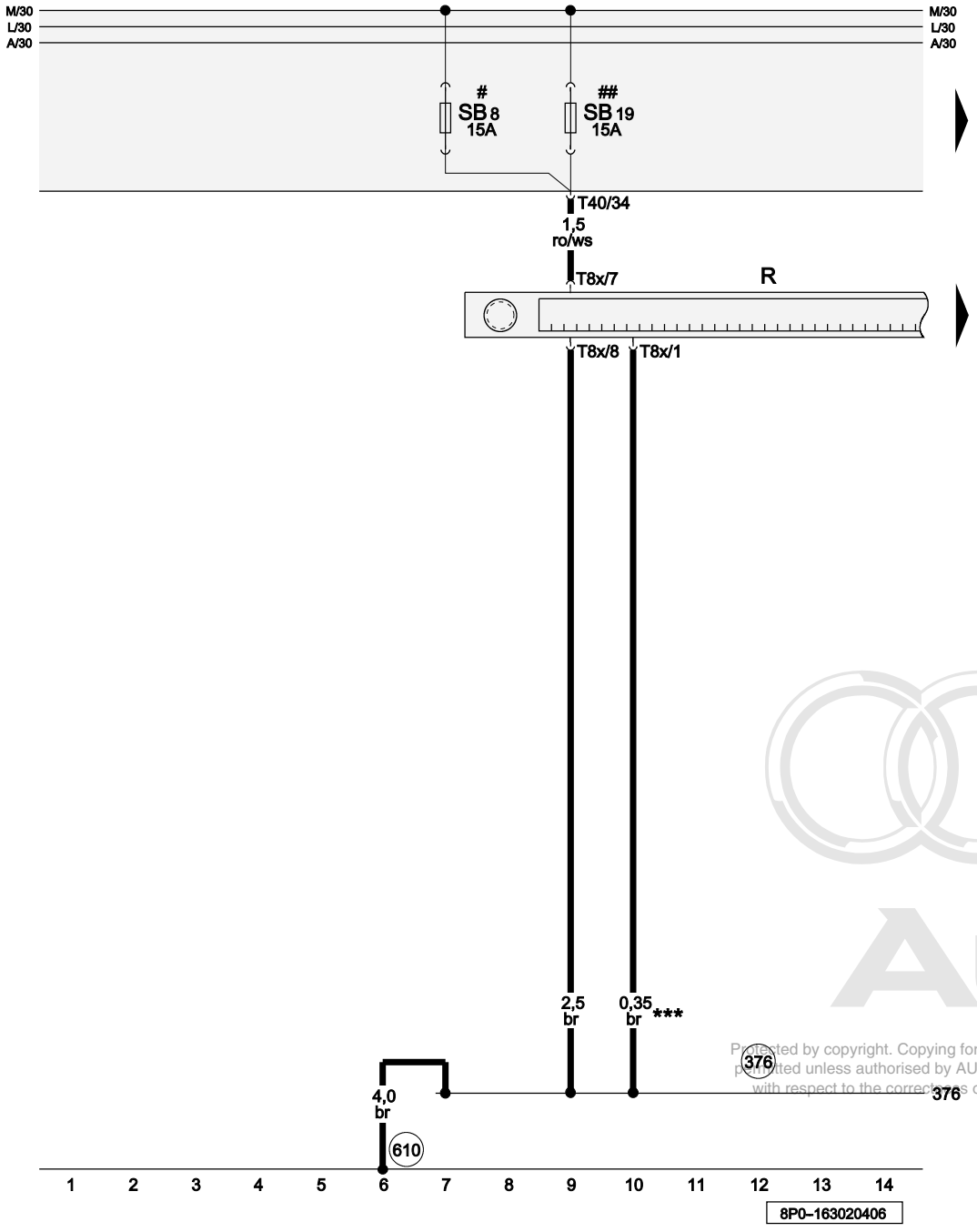
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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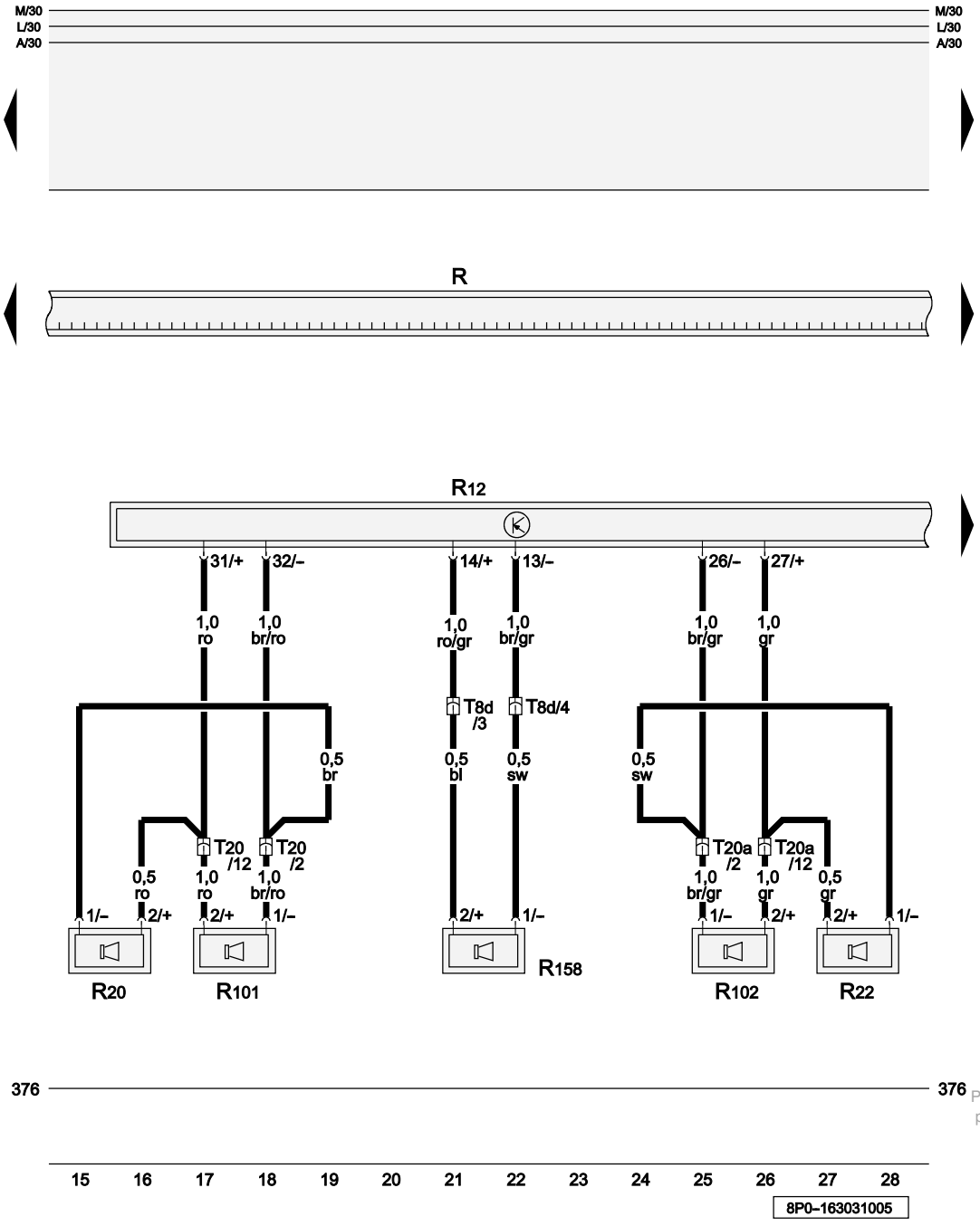


Radio, voltage supply

R	Radio
SB8	Fuse 8 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8x	8-pin connector, black (connector C)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(376)	Earth connection 11, in main wiring harness
(610)	Earth point (audio), under centre console, front
***	for models with Bose sound system only
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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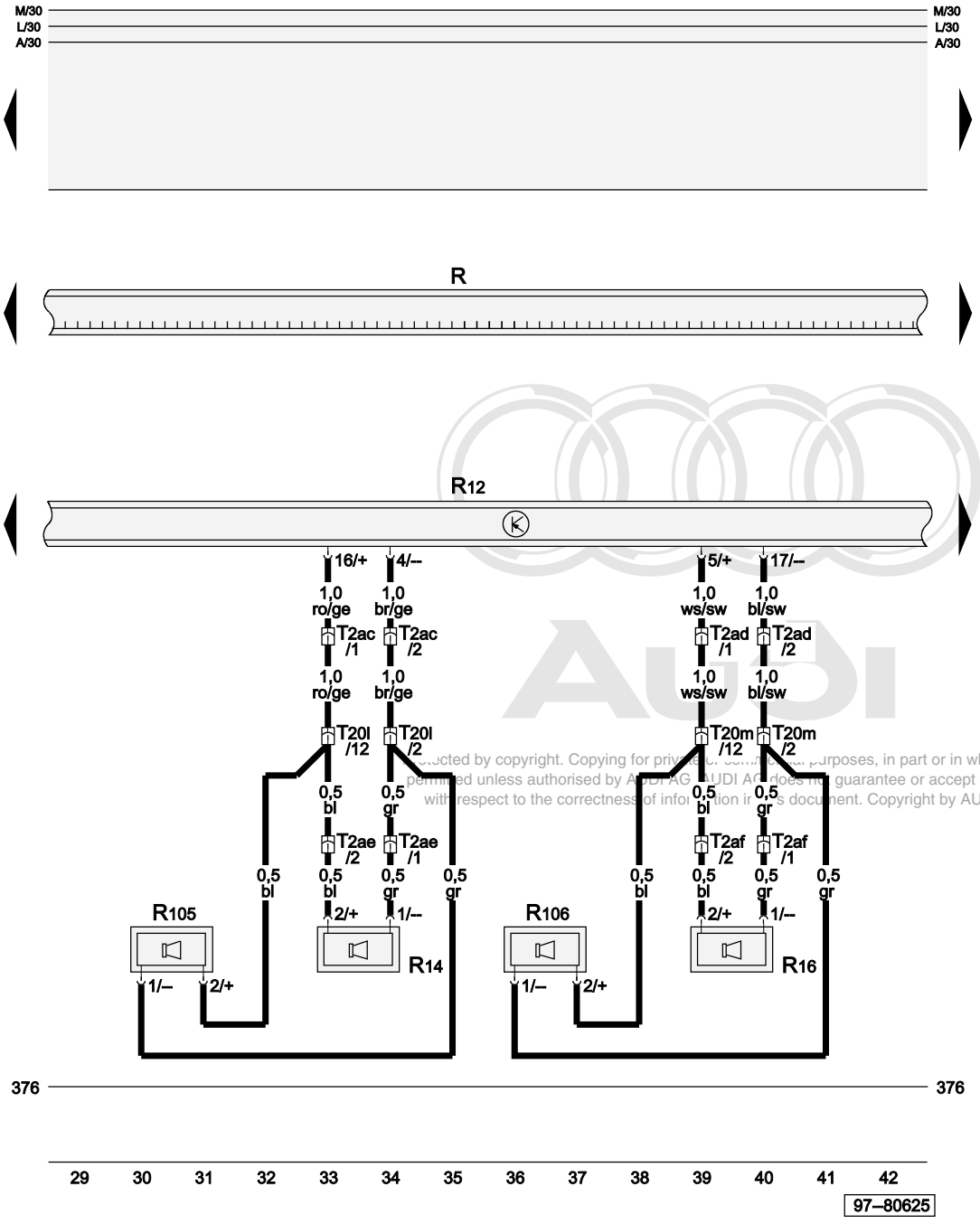


Front loudspeaker with Bose sound system

R	Radio
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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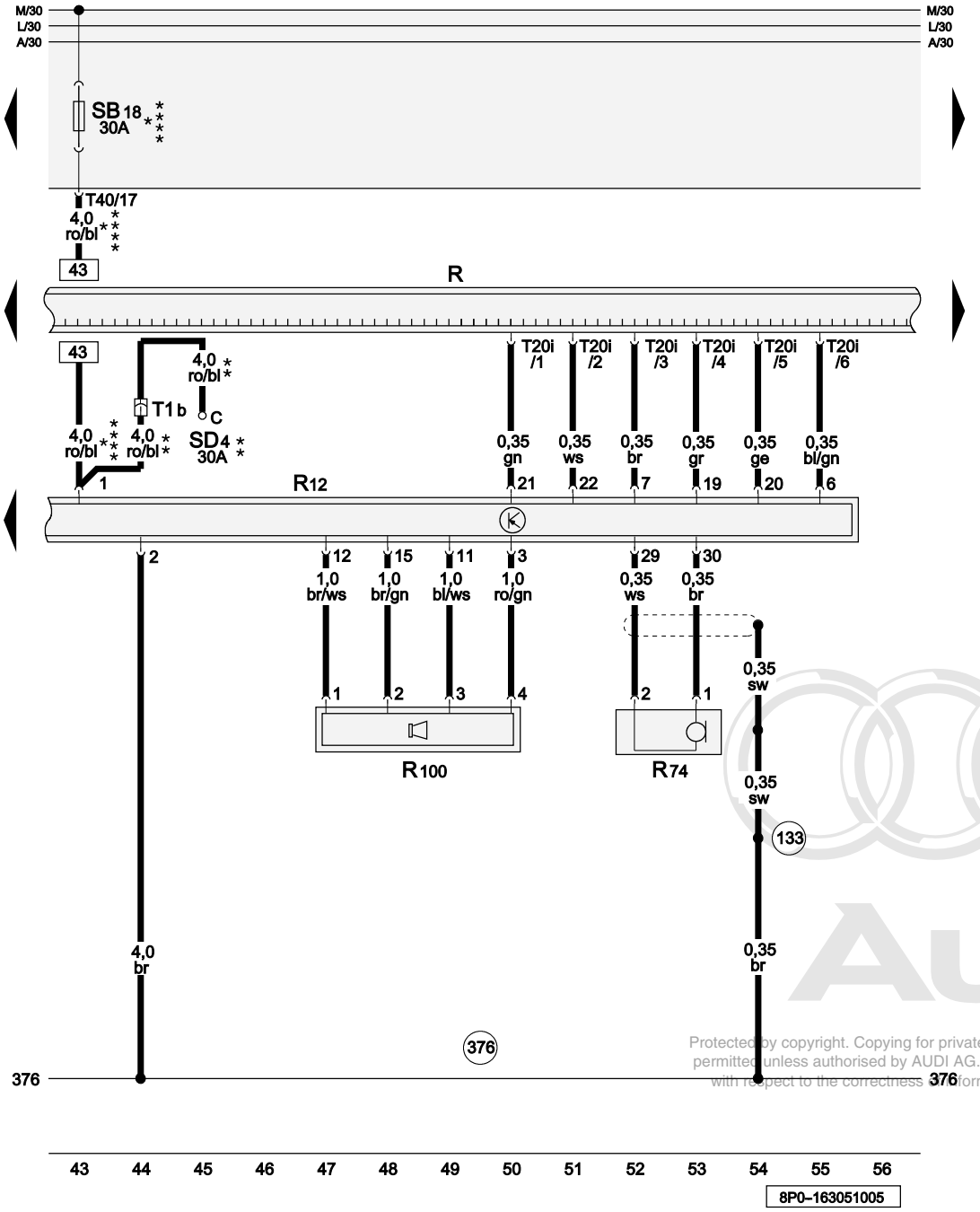


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Rear loudspeaker with Bose sound system

R	Radio
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

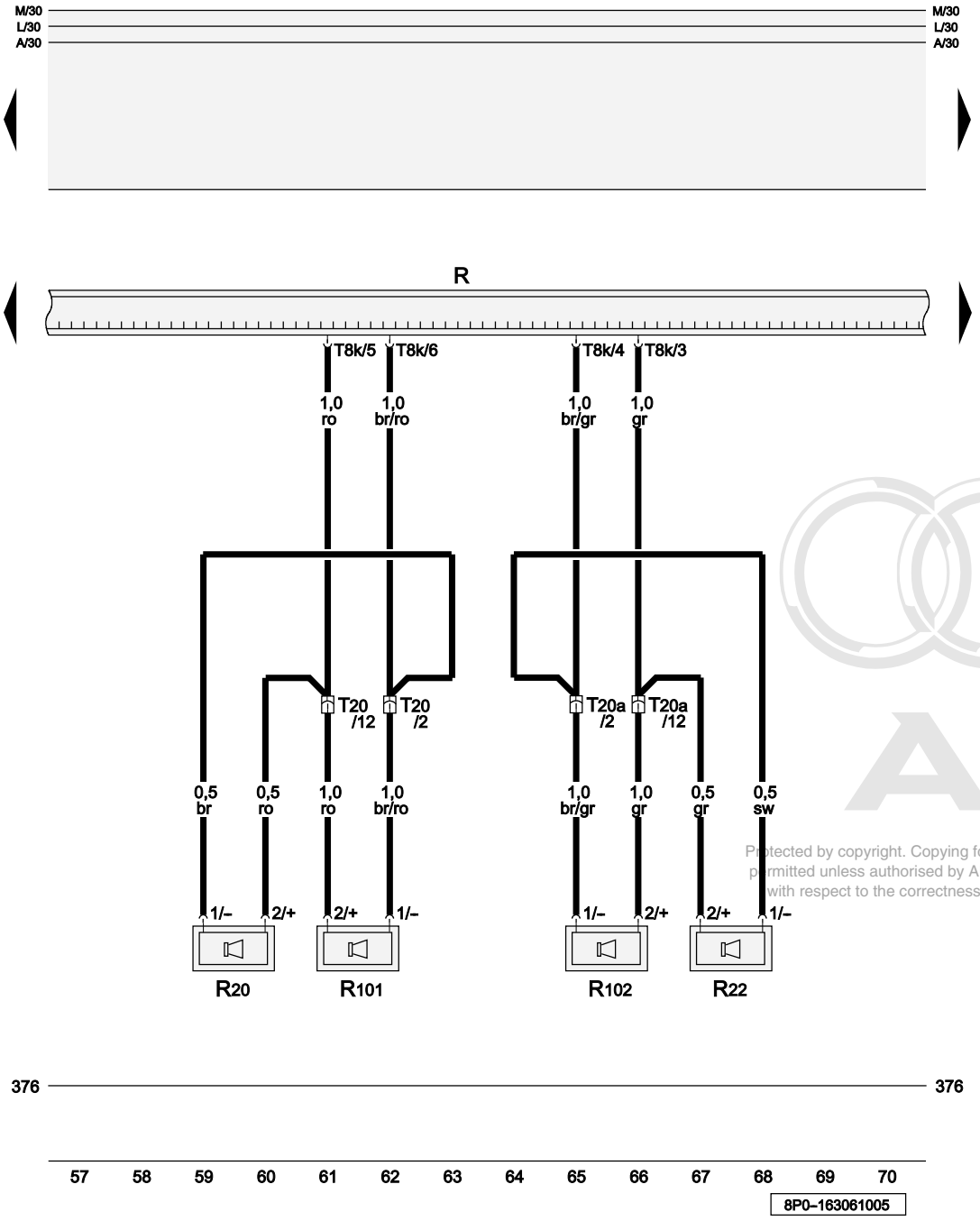


Internal microphone, bass loudspeaker with Bose sound system

R	Radio
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder B
SD4	Fuse 4 on fuse holder D
T1b	1-pin connector, black, on left C-pillar
T20i	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(133)	Earth connection, in loudspeaker wiring harness
(376)	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	only for models with battery in luggage compartment, is dropped, from November 2005
****	applicable from November 2005 for models with battery in engine compartment and luggage compartment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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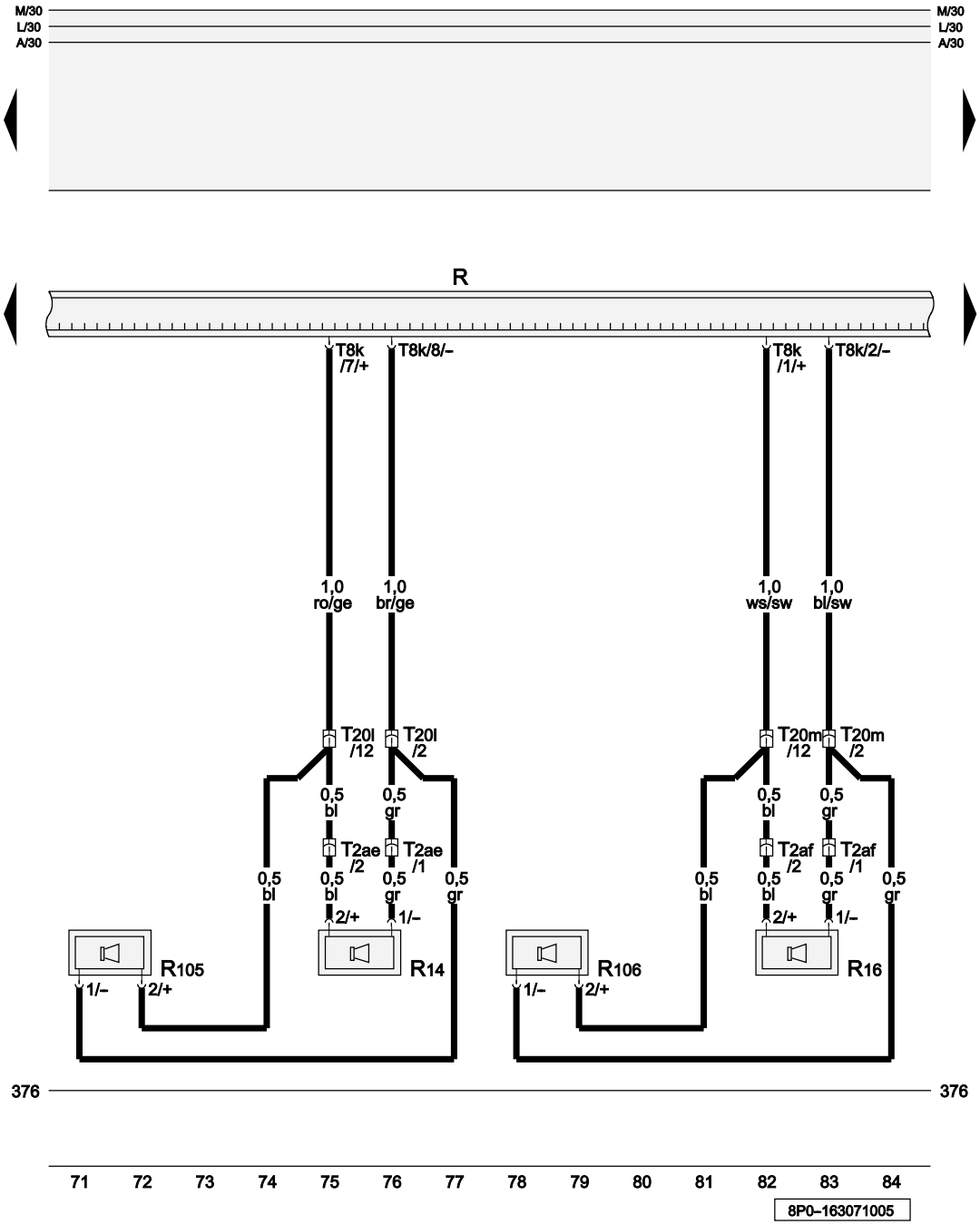


Front loudspeaker without amplifier

R	Radio
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
T8k	8-pin connector, brown (connector B)
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right

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gn	=	green
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ge	=	yellow
or	=	orange
rs	=	pink

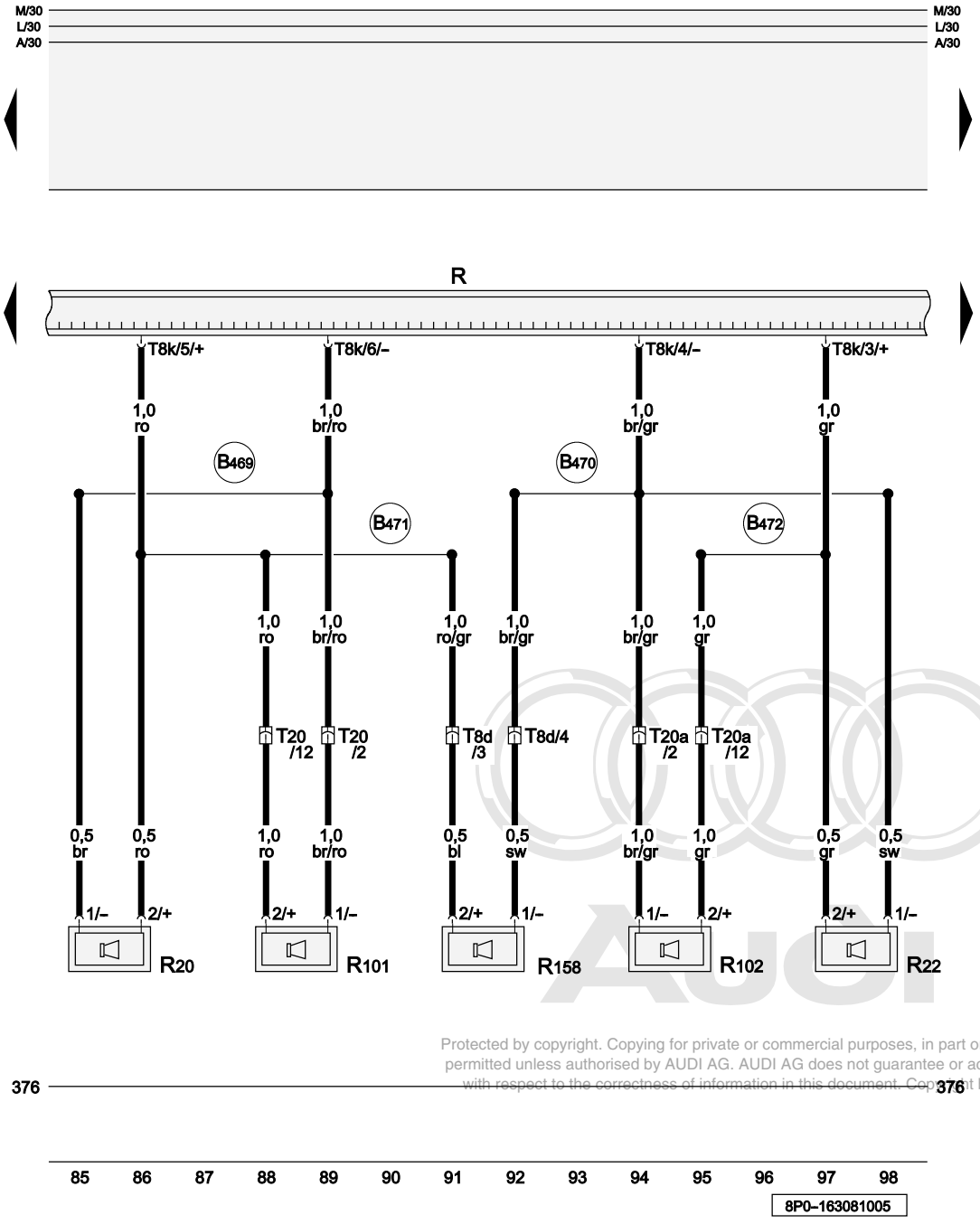


Rear loudspeaker without amplifier

R	Radio
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T8k	8-pin connector, brown (connector B)
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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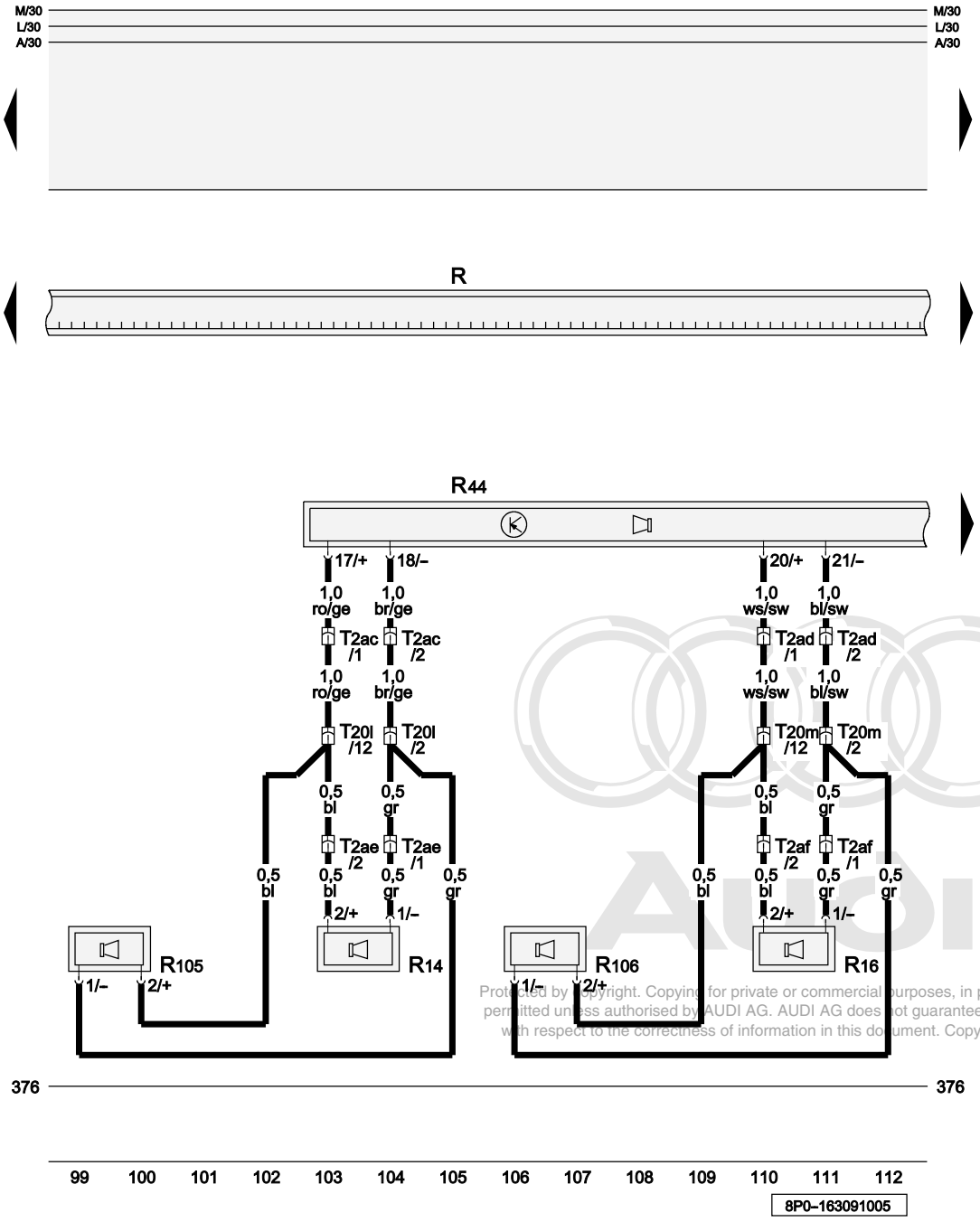


Front loudspeaker with amplifier

R	Radio
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8k	8-pin connector, brown (connector B)
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B472	Connection 8 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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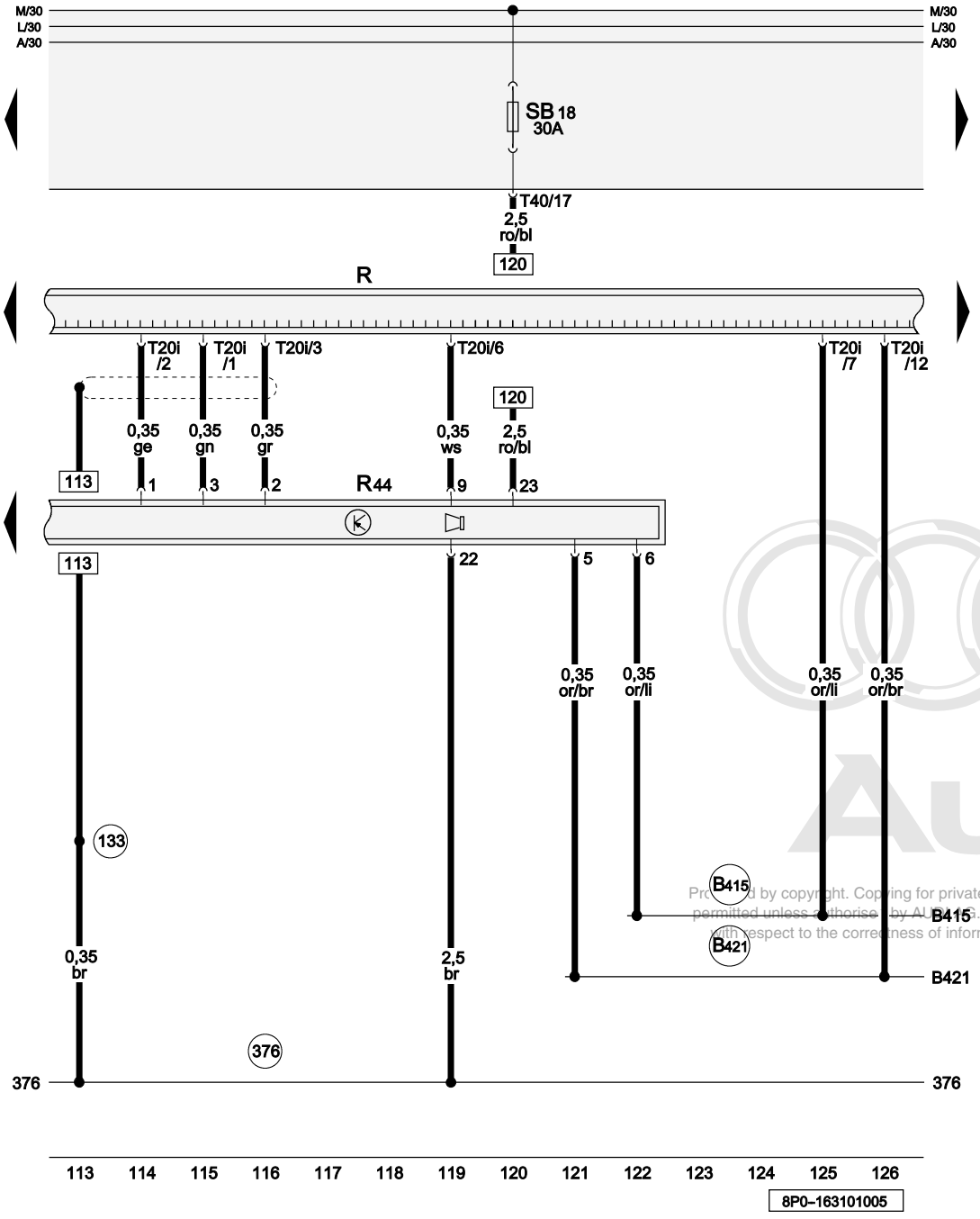


Amplifier with rear loudspeaker

R	Radio
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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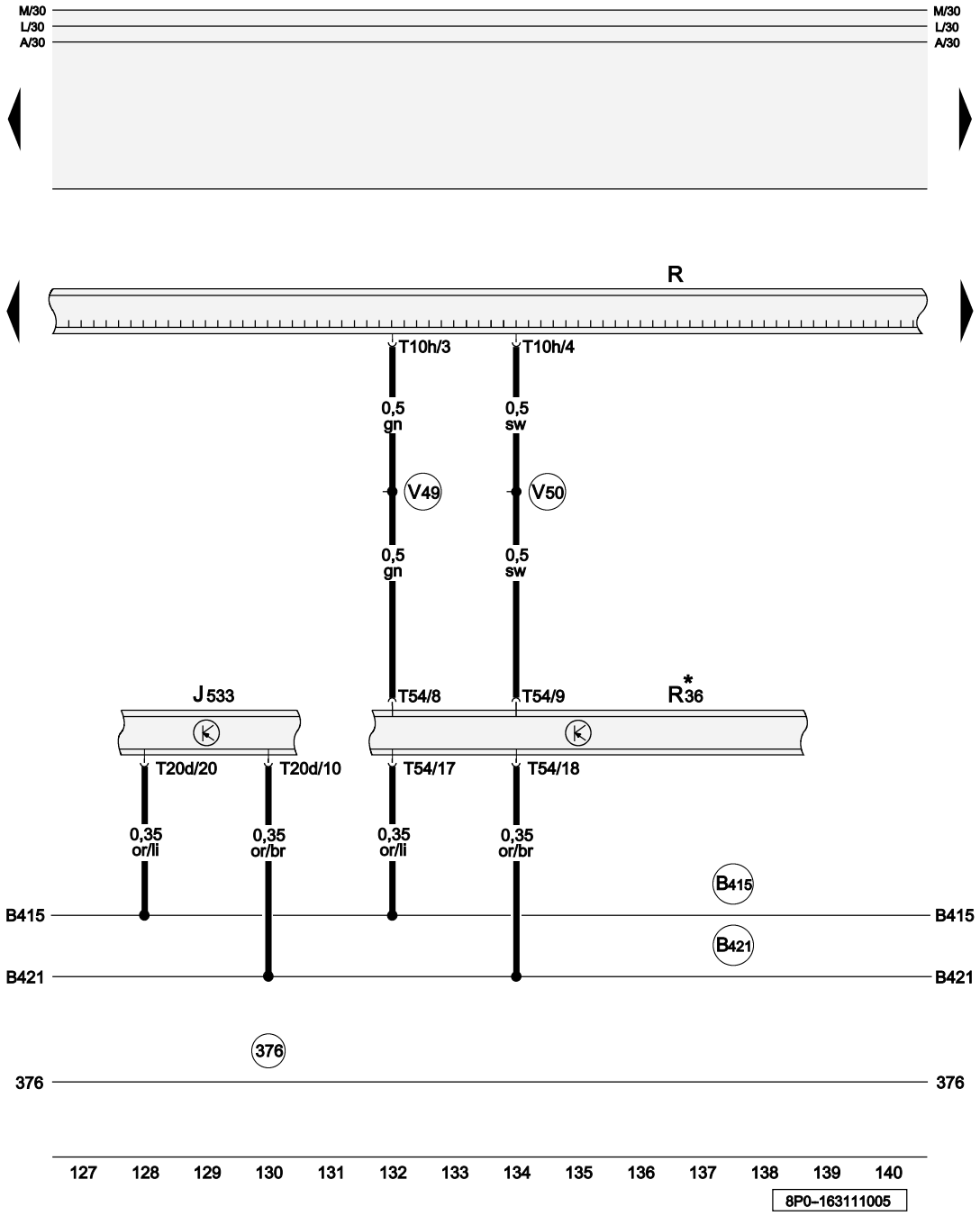


Amplifier with bass loudspeaker, on left in luggage compartment

R	Radio
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder B
T20i	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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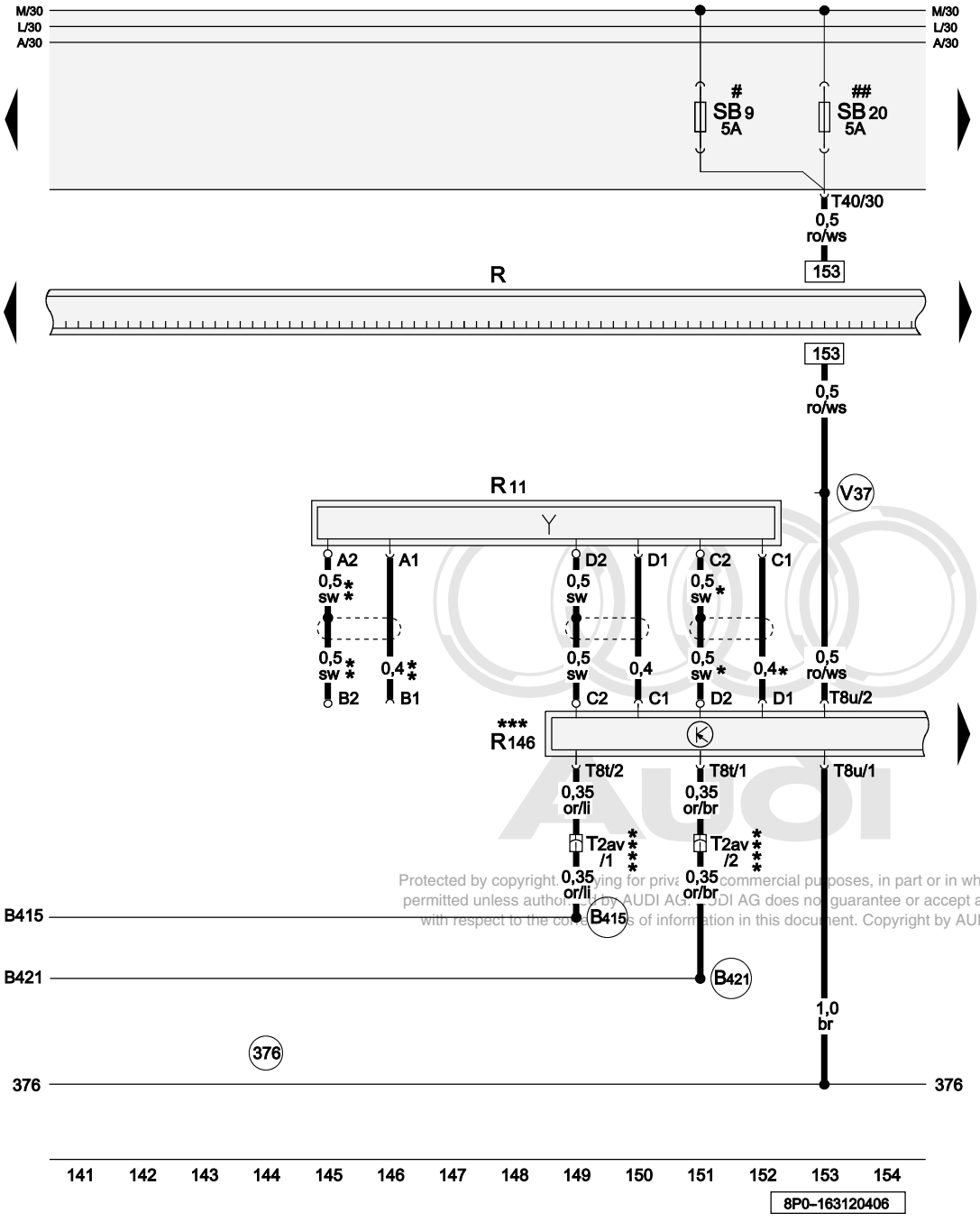


Data bus diagnostic interface, telephone transmitter and receiver unit

J533	Data bus diagnostic interface
R	Radio
R36	Telephone transmitter and receiver unit
T10h	10-pin connector, red (connector D)
T20d	20-pin connector, yellow (connector A)
T54	54-pin connector, black (connector A)
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with mobile telephone/ telephone only

ws	=	white
sw	=	black
ro	=	red
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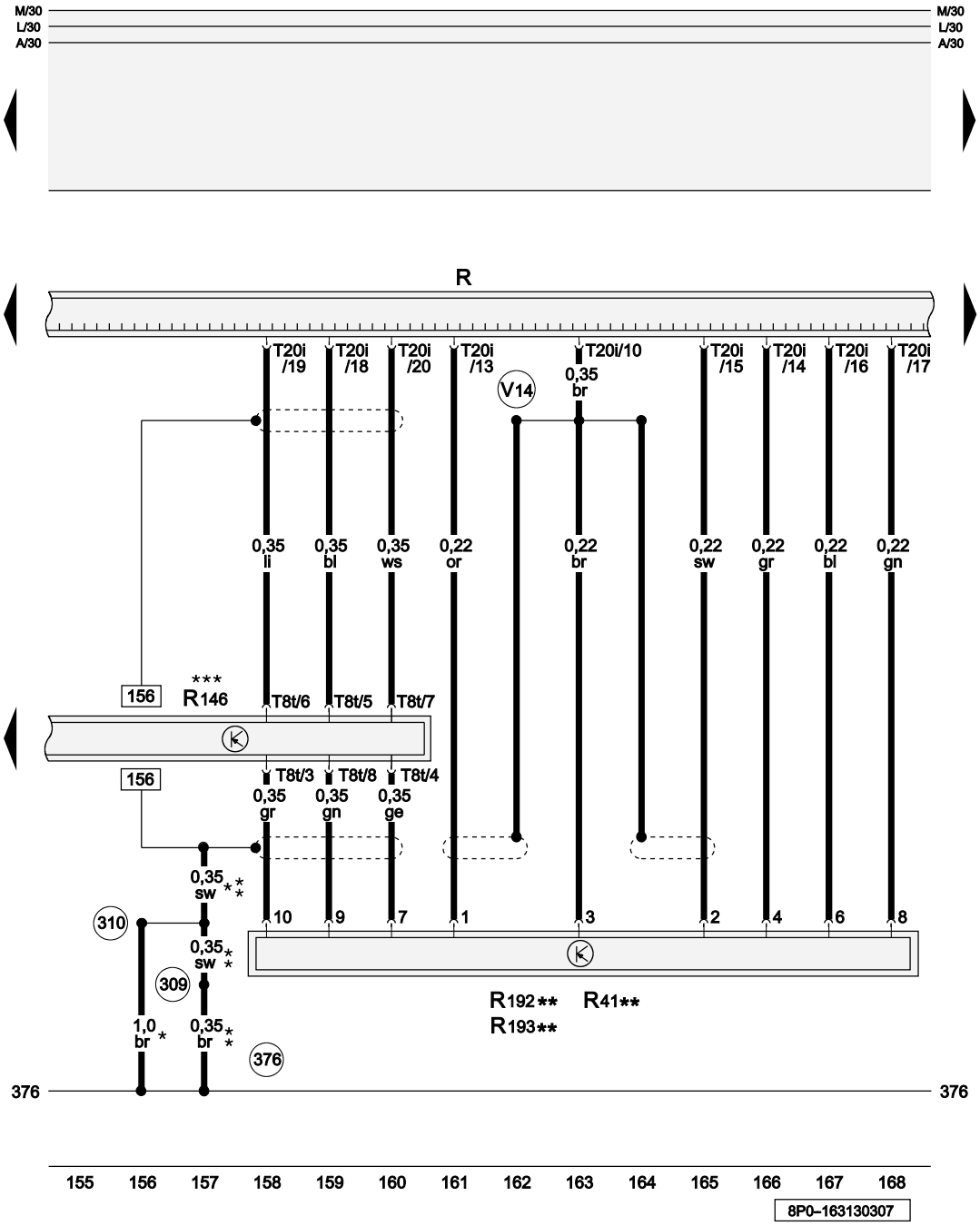


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roof aerial

R	Radio
R11	Aerial
R146	Satellite radio
SB9	Fuse 9 on fuse holder B
SB20	Fuse 20 on fuse holder B
T2av	2-pin connector, black, on right A-pillar
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T8u	8-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V37	Positive connection (30), in communication wiring harness
*	is dropped from November 2006
**	for models with mobile telephone/ telephone only
***	for models with satellite radio only
****	for satellite radio preparation only
#	for models with electronics box low only, ⇒ Fitting locations
##	for models with electronics box high only, ⇒ Fitting locations

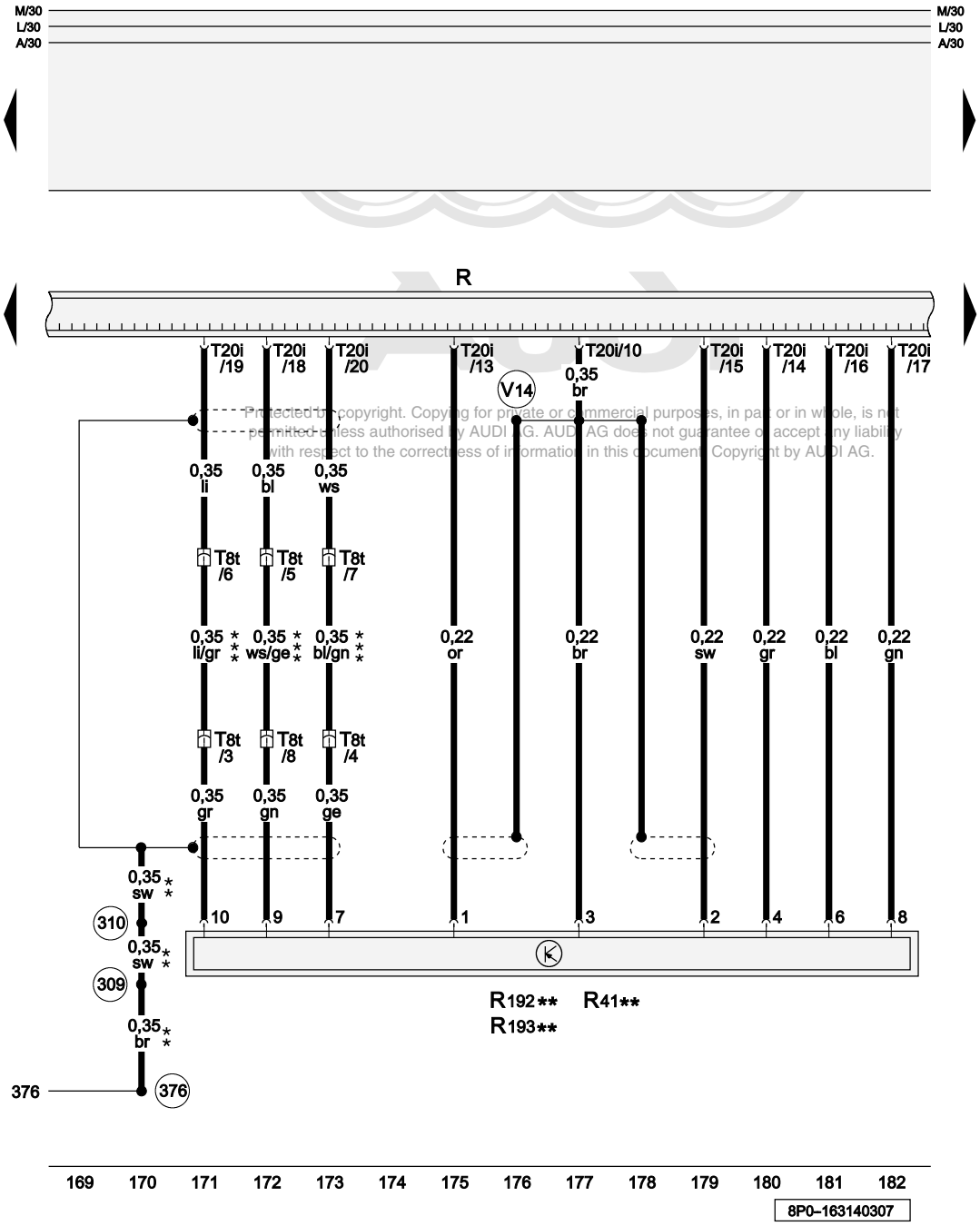


CD changer, iPod holder, USB connection retainer with satellite radio only

R	Radio
R41	CD changer
R146	Satellite radio
R192	iPod holder
R193	USB connection retainer
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T20i	20-pin connector, black (connector A)
309	Earth connection 1, screening, in CD changer wiring harness
310	Earth connection 2, screening, in CD changer wiring harness
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
*	for models without CD changer or iPod holder or USB connection retainer only
**	for models with CD changer or iPod holder or USB connection retainer only
***	for models with satellite radio only

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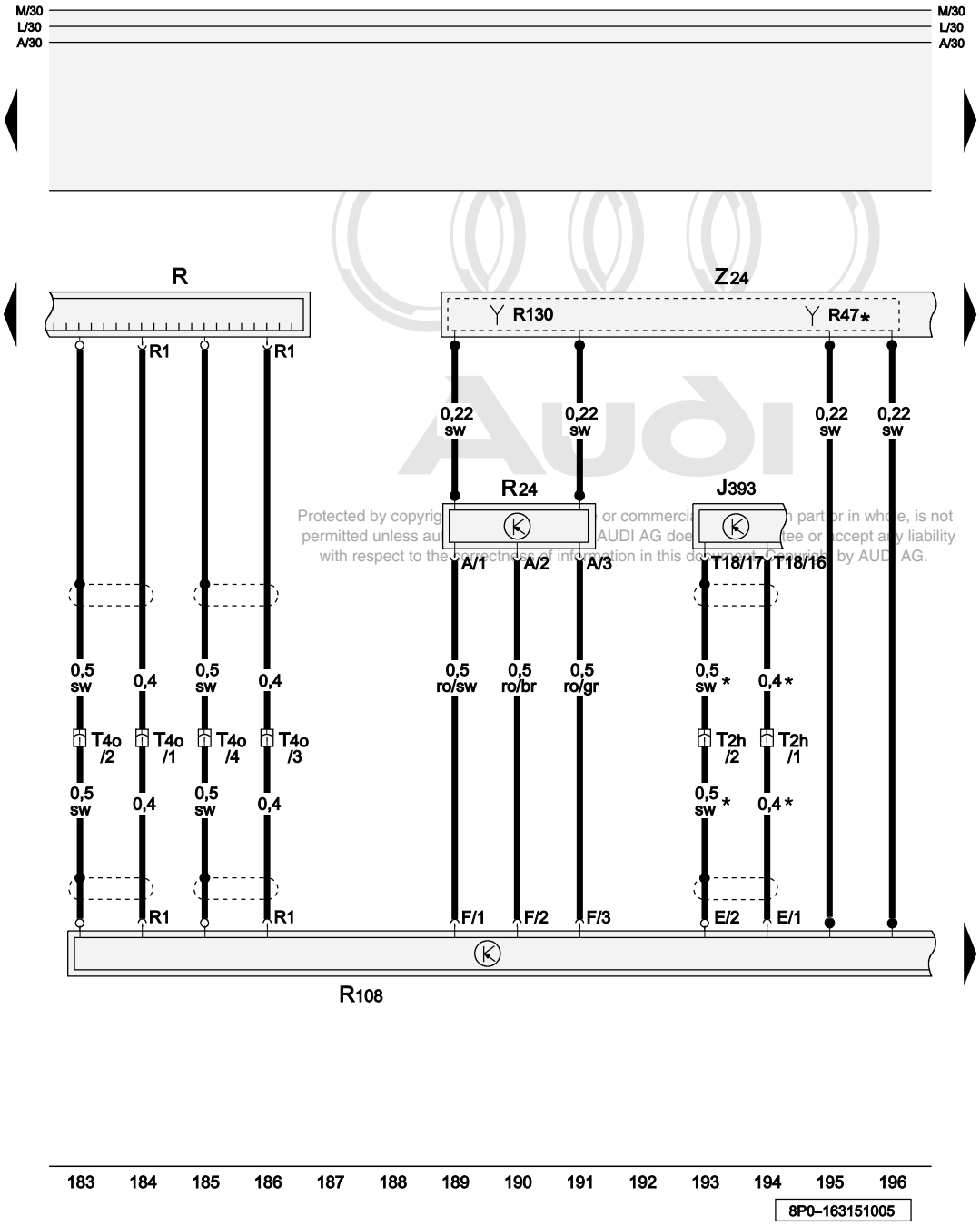


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CD changer, iPod holder, USB connection retainer without satellite radio only

R	Radio
R41	CD changer
R192	iPod holder
R193	USB connection retainer
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T20i	20-pin connector, black (connector A)
309	Earth connection 1, screening, in CD changer wiring harness
310	Earth connection 2, screening, in CD changer wiring harness
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
**	for models with CD changer or iPod holder or USB connection retainer only
***	for models without satellite radio only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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li	=	purple
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rs	=	pink

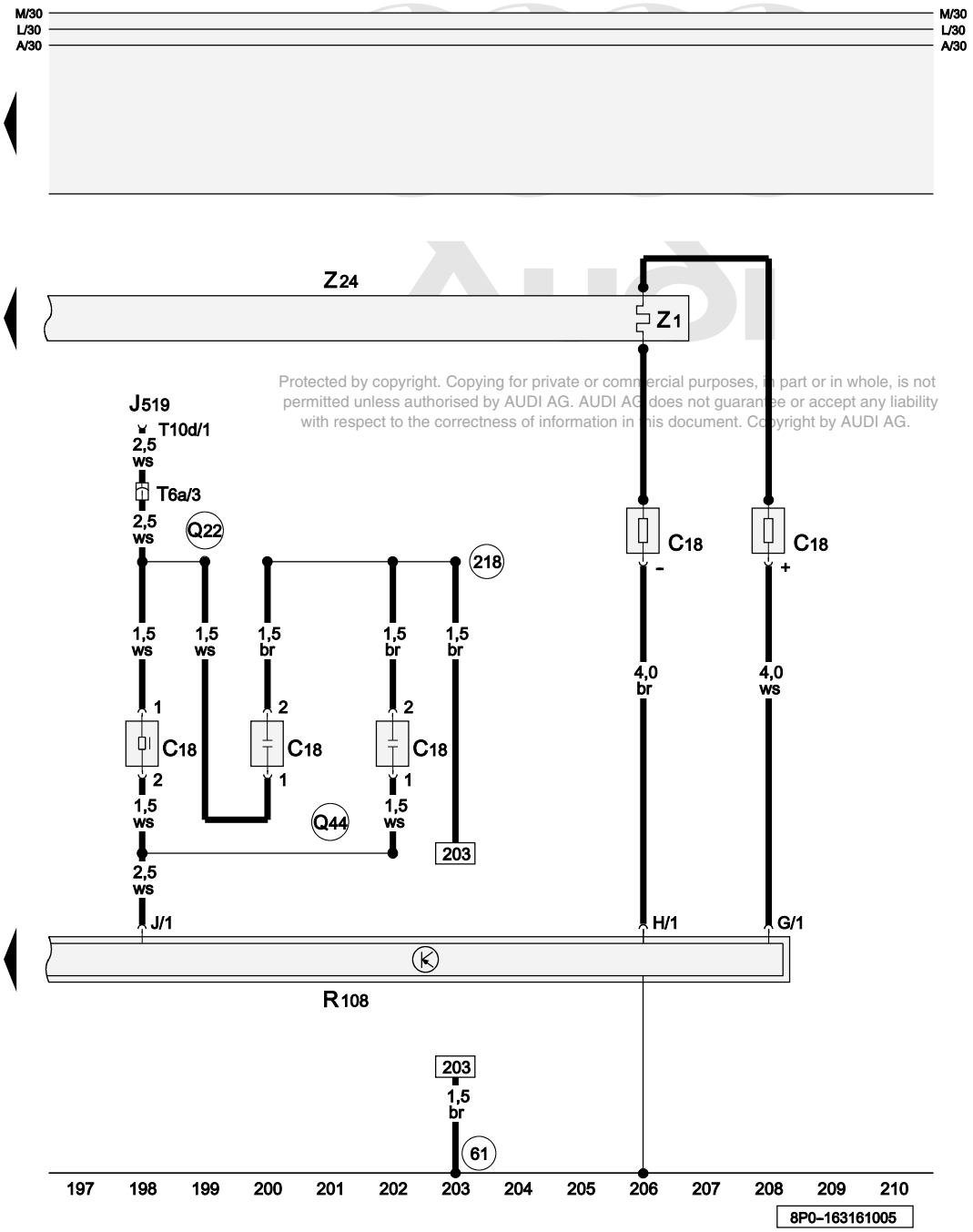


Left aerial module, rear window aerial 1

J393	Convenience system central control unit
R	Radio
R1	Aerial connection
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T4o	4-pin connector, near C-pillar right
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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Left aerial module, window aerial suppression filter

C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness

ws	=	white
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li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Radio and navigation system RNS-E

⇒ **for US equipment only**

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

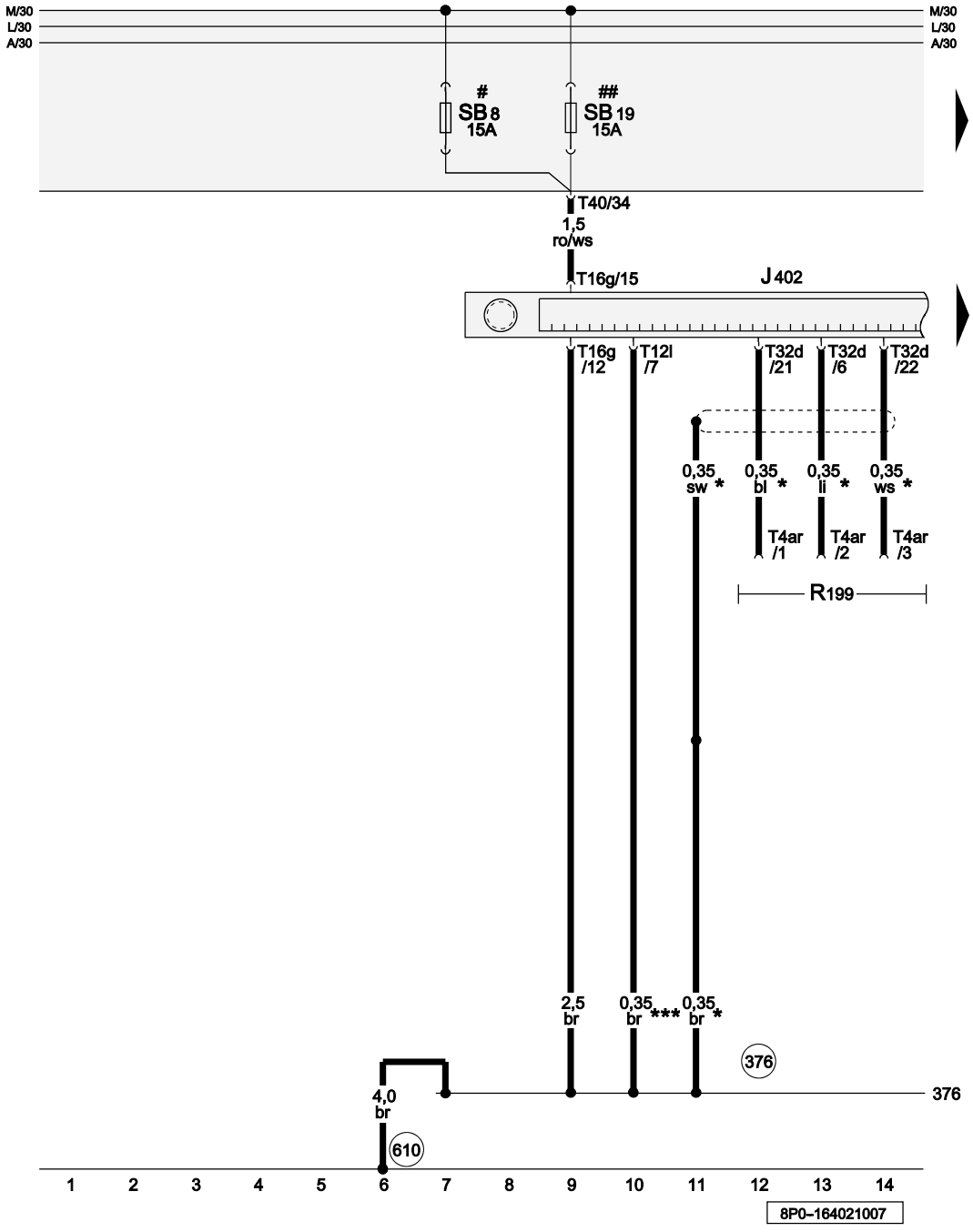
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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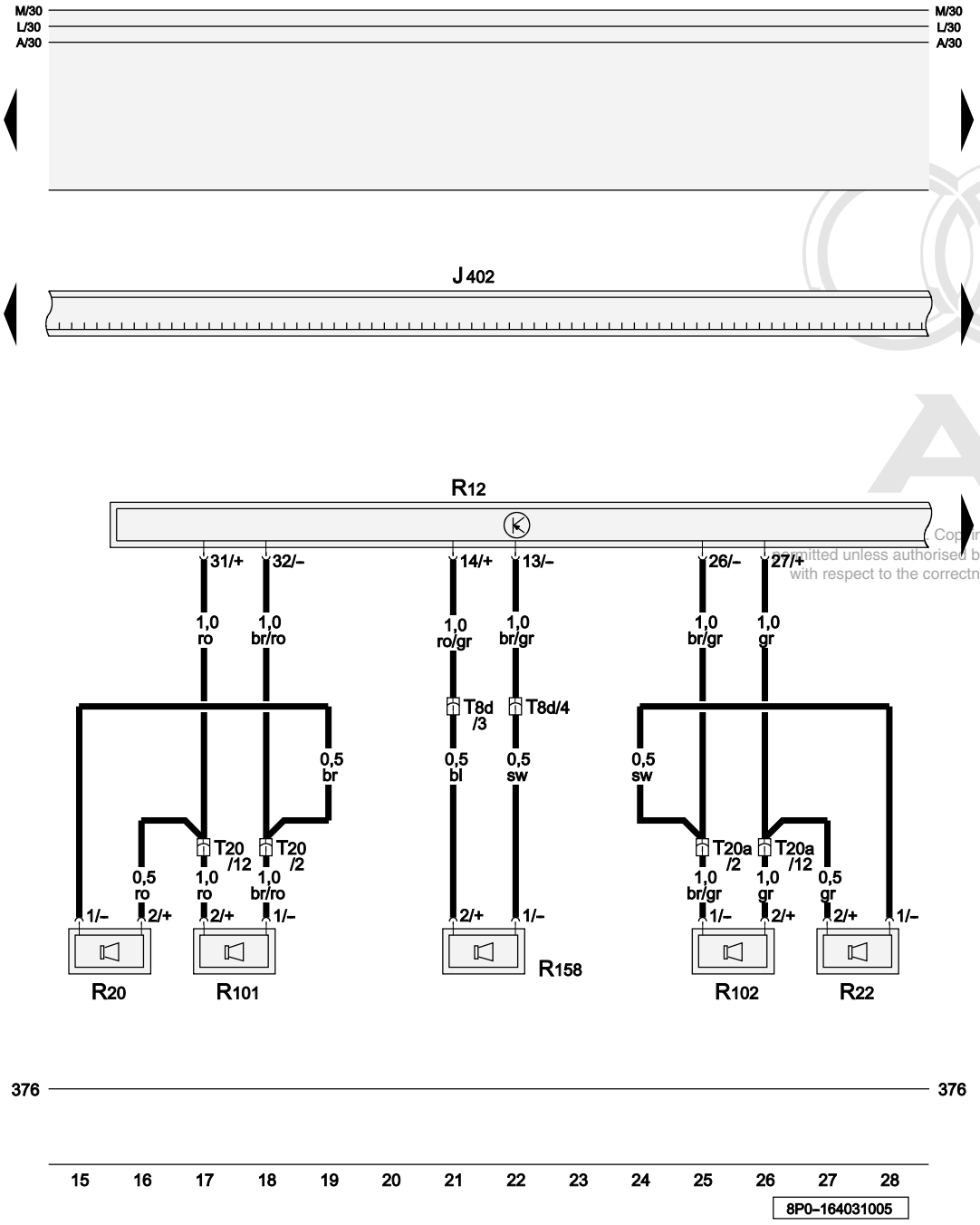


Fuses on fuse holder

J402	Navigation operating electronics control unit
R199	Connection for external audio source
SB8	Fuse 8 on fuse holder B
SB19	Fuse 19 on fuse holder B
T4ar	4-pin connector
T12l	12-pin connector, blue (connector B)
T16g	16-pin connector, black (connector D)
T32d	32-pin connector, grey (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
*	for models with connection for external audio source only
***	for models with Bose sound system only
#	for models with electronics box low only ⇒ Fitting Locations
##	for models with electronics box high only ⇒ Fitting Locations

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rs	=	pink



Front loudspeaker with Bose sound system

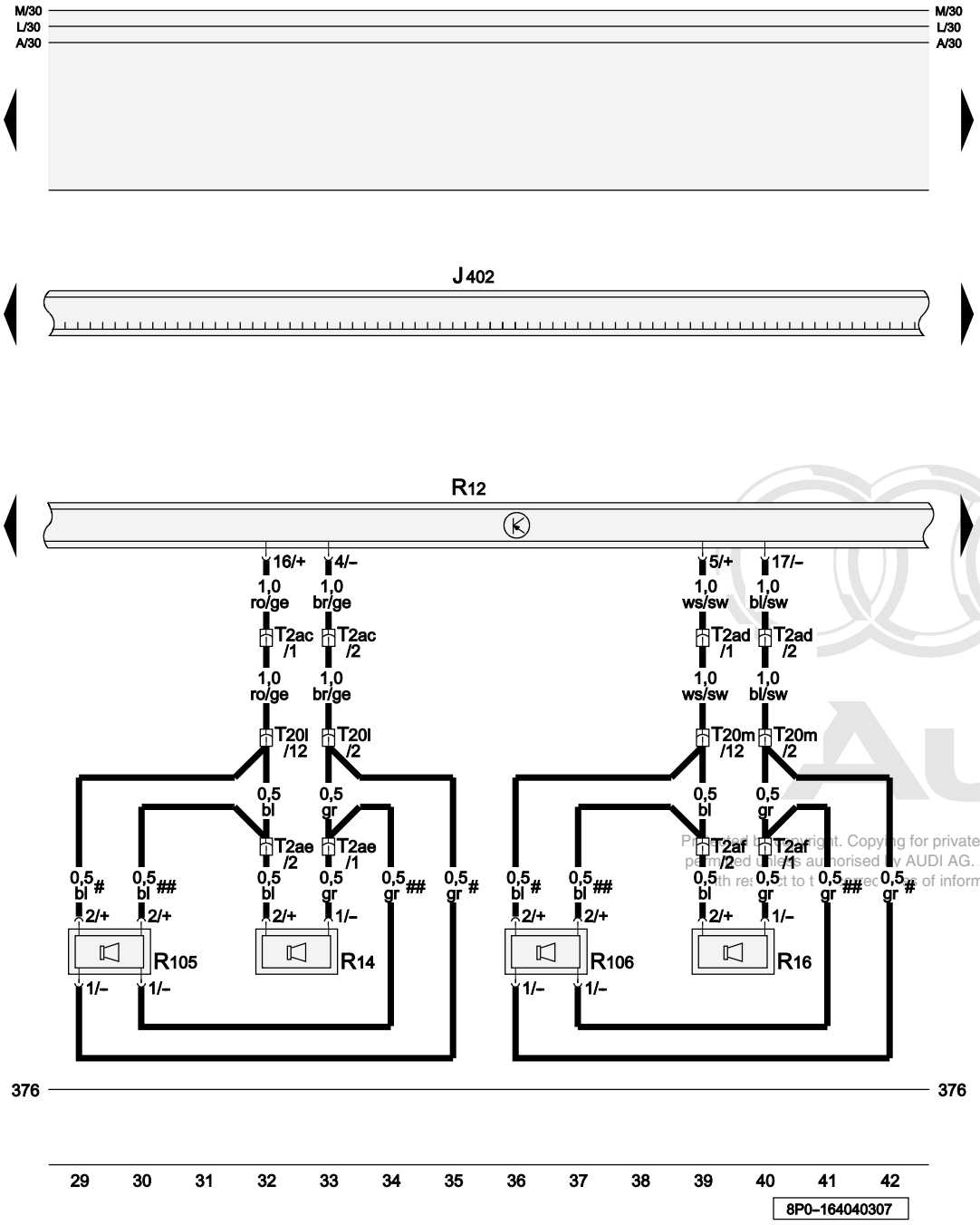
J402	Navigation operating electronics control unit
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right

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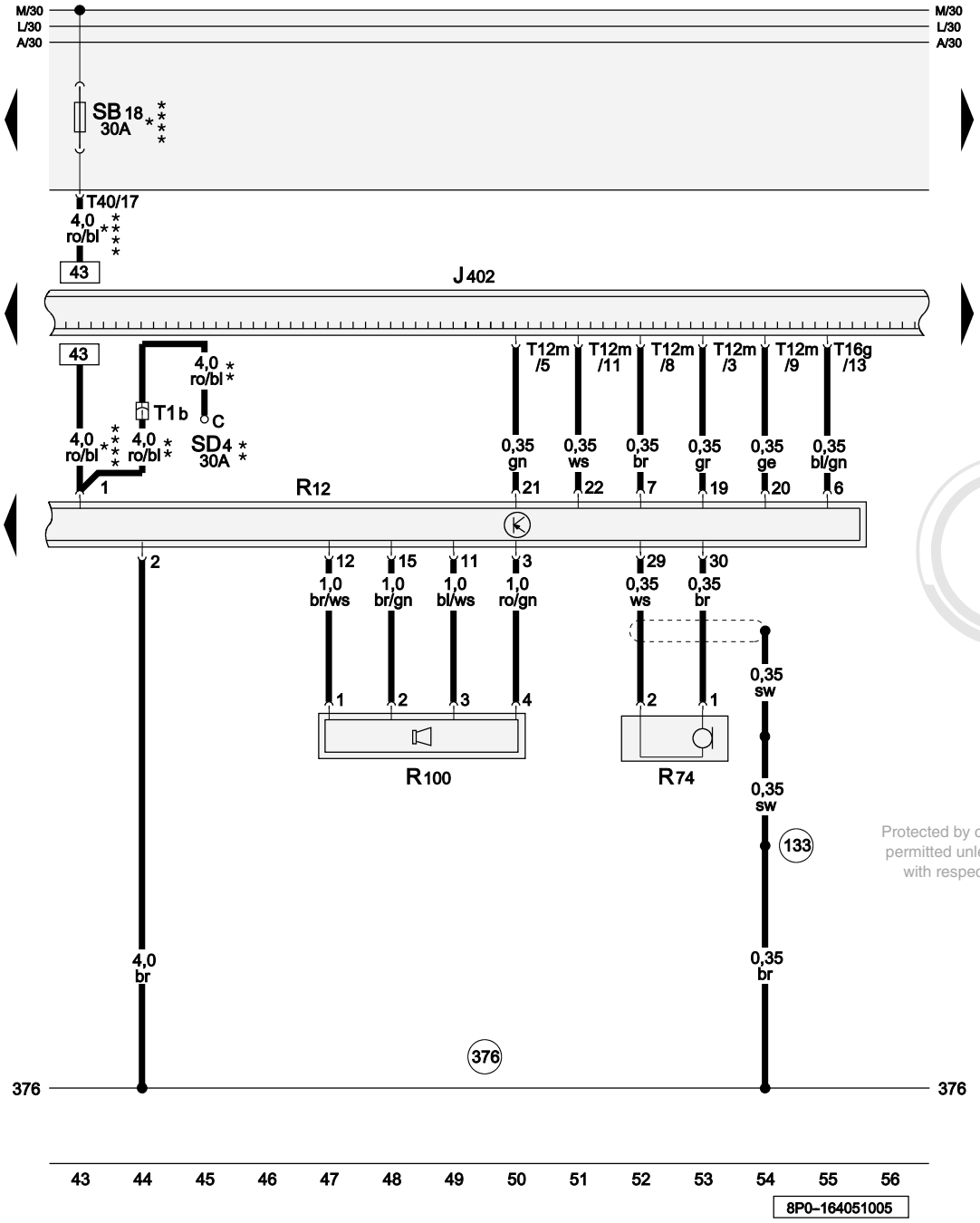
Rear loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
#	phased-in modification
##	No longer fitted, phased-in modification



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ro = red
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gn = green
bl = blue
gr = grey
li = purple
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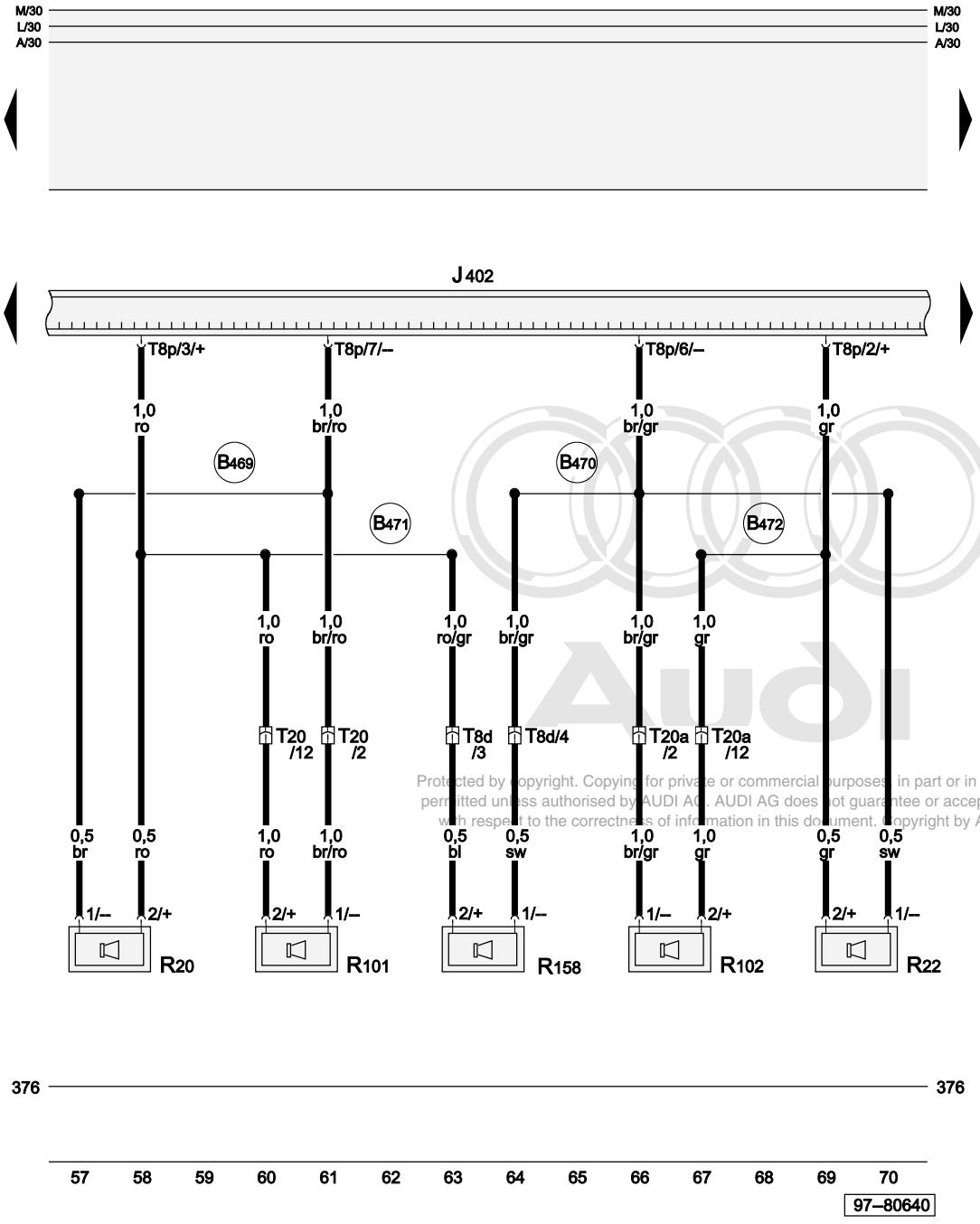


Internal microphone, bass loudspeaker with Bose sound system

J402	Navigation operating electronics control unit
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder B
SD4	Fuse 4 on fuse holder D
T1b	Single connector, black, on left C-pillar
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(133)	Earth connection, in loudspeaker wiring harness
(376)	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	only for models with battery in luggage compartment, is dropped, from November 2005
****	applicable from November 2005 for models with battery in engine compartment and luggage compartment

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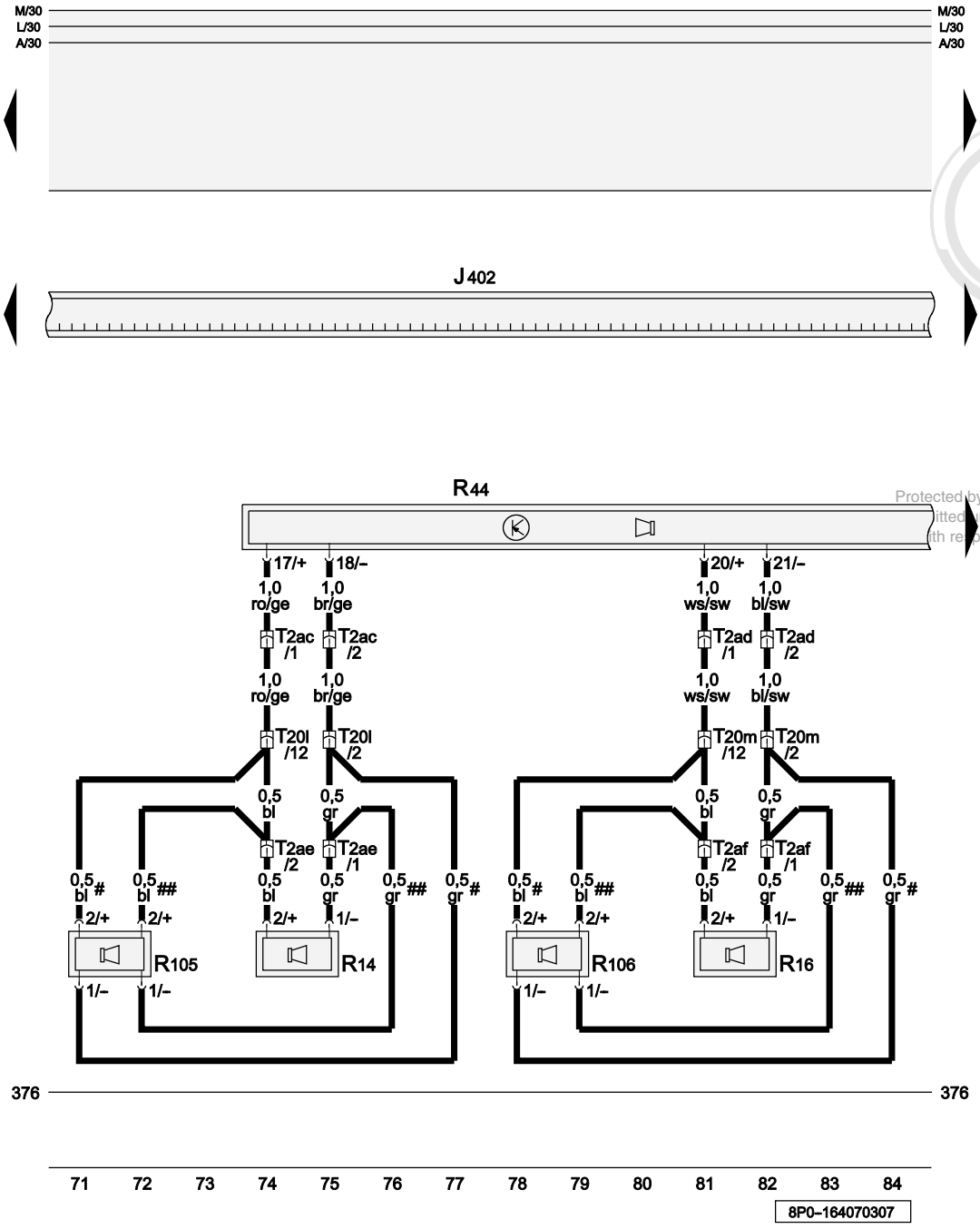


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Front loudspeaker

J402	Navigation operating electronics control unit
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8p	8-pin connector, brown (connector A)
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

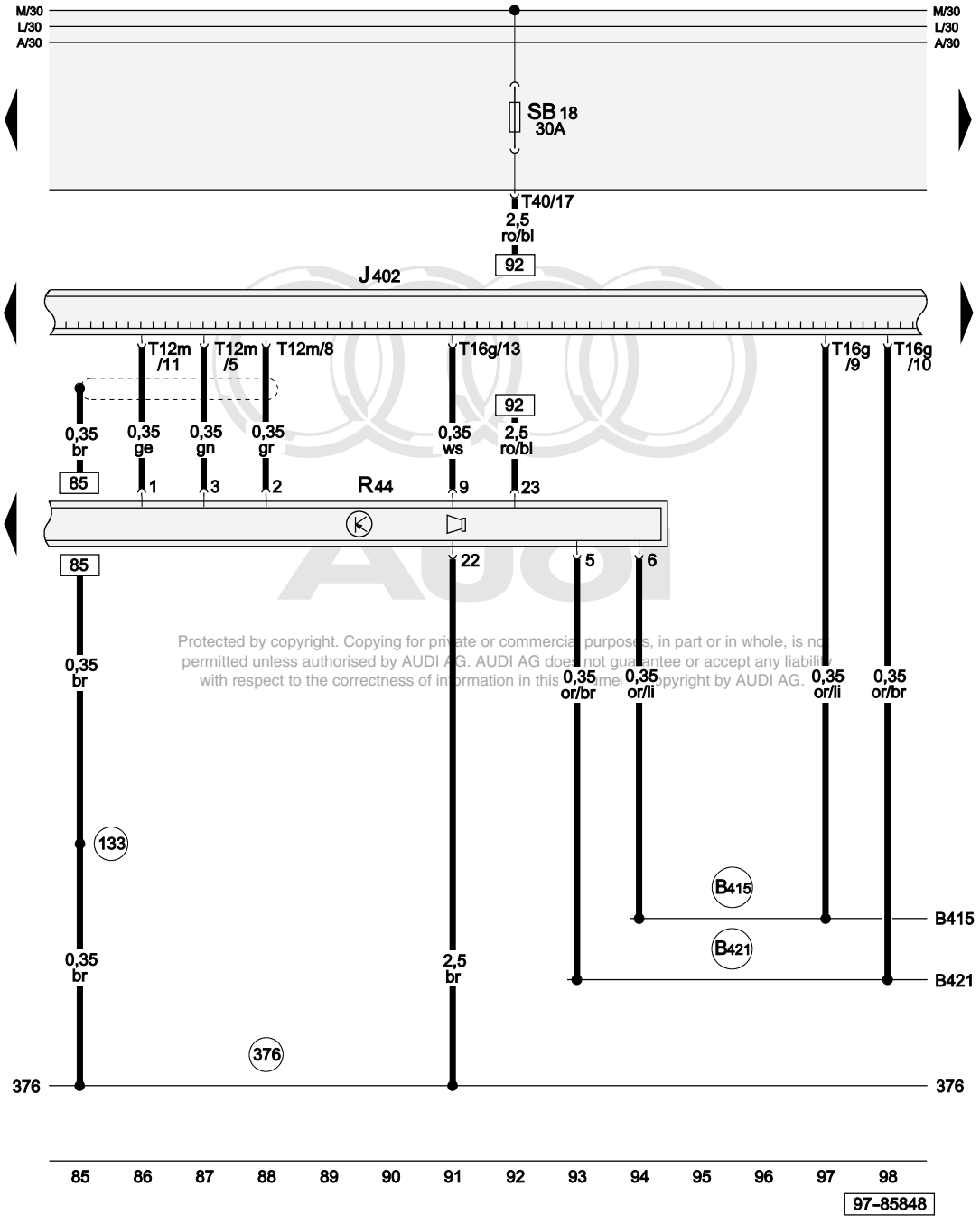


Amplifier with bass loudspeaker, on left in luggage compartment, rear loudspeaker

J402	Navigation operating electronics control unit
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
#	phased-in modification
##	No longer fitted, phased-in modification

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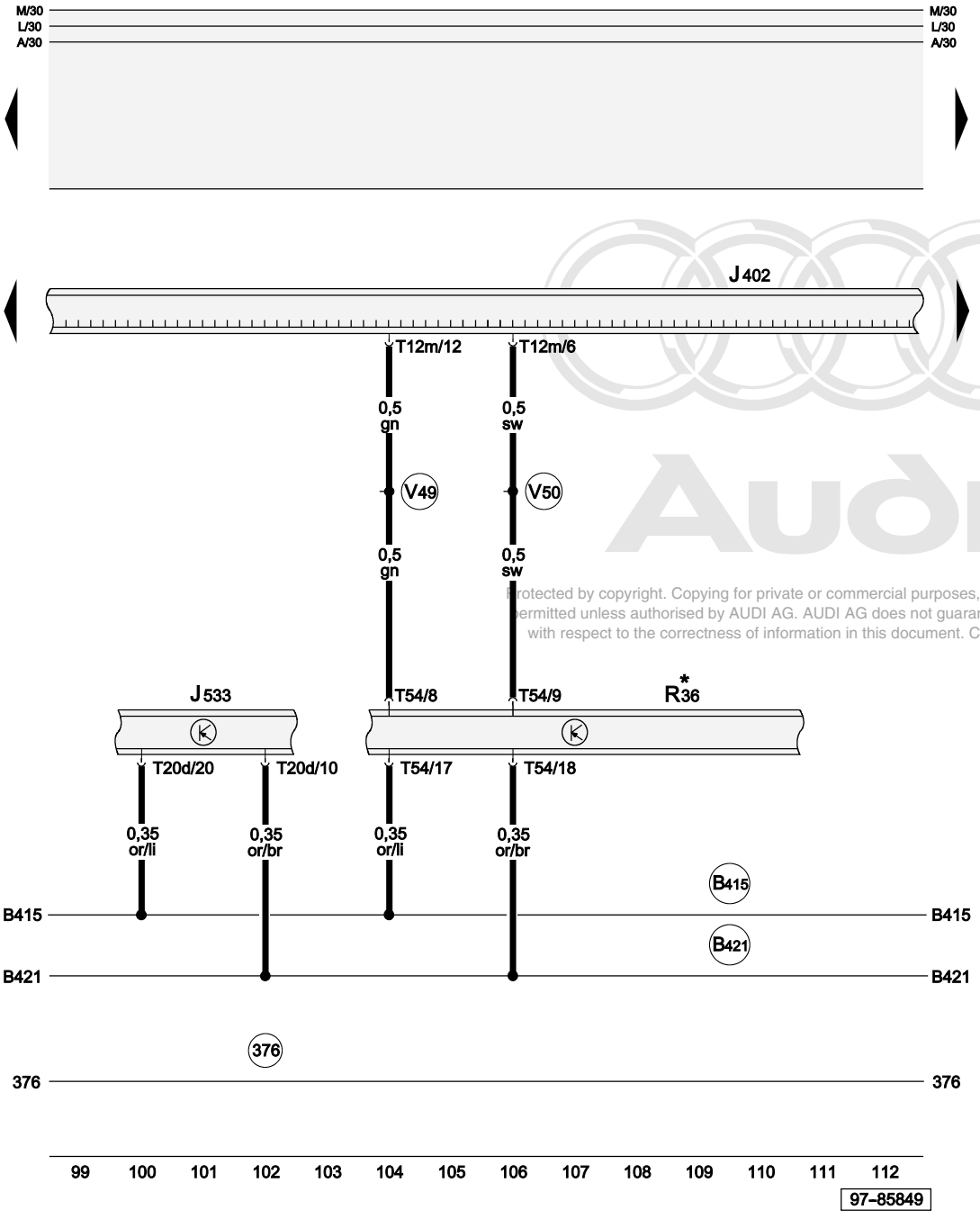


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Amplifier with bass loudspeaker, on left in luggage compartment

J402	Navigation operating electronics control unit
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder B
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

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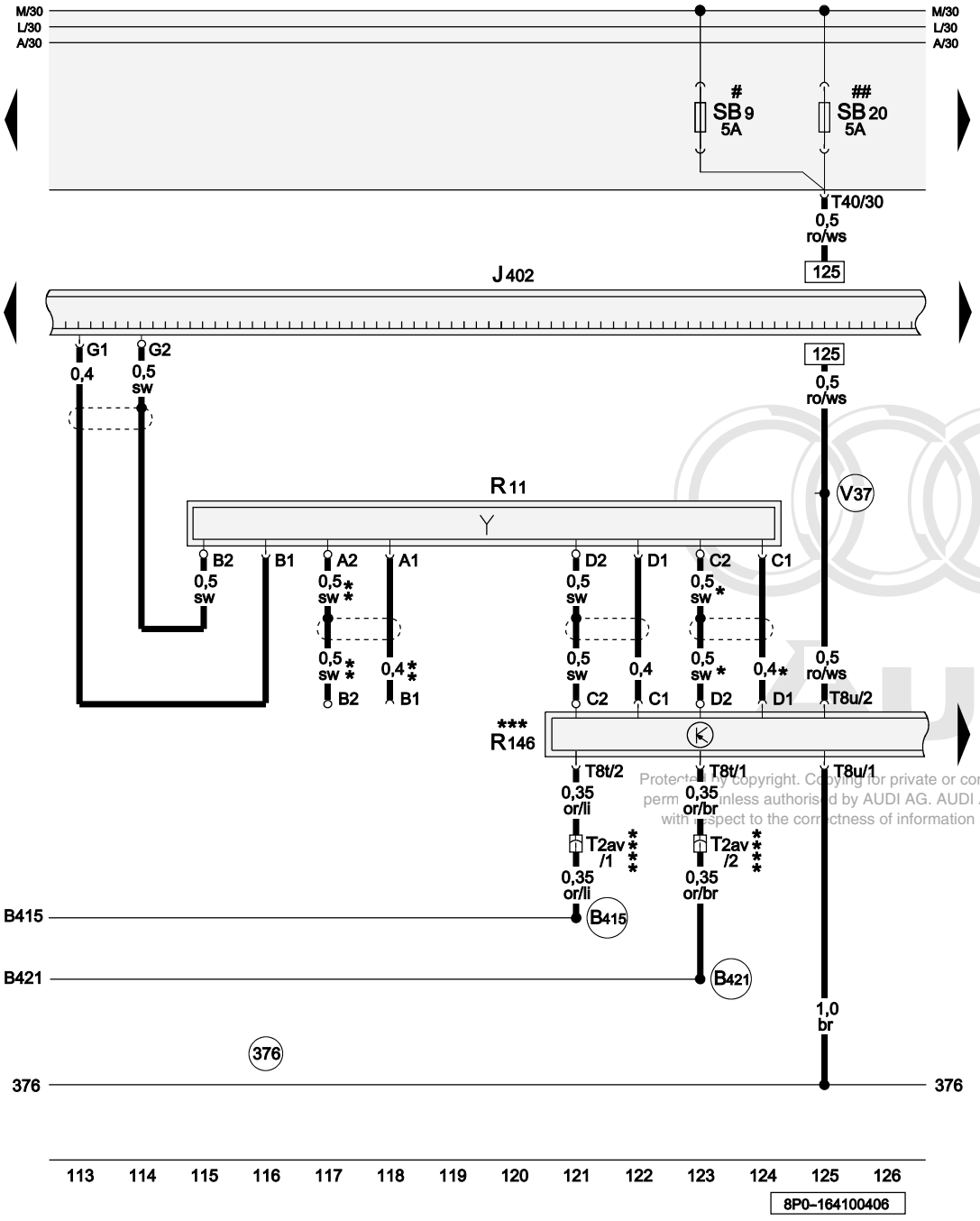


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Data bus diagnostic interface, telephone transmitter and receiver unit

J402	Navigation operating electronics control unit
J533	Data bus diagnostic interface
R36	Telephone transmitter and receiver unit
T12m	12-pin connector, black (connector C, connector locking green)
T20d	20-pin connector, yellow (connector A)
T54	54-pin connector, black (connector A)
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
*	for models with mobile telephone/ telephone only

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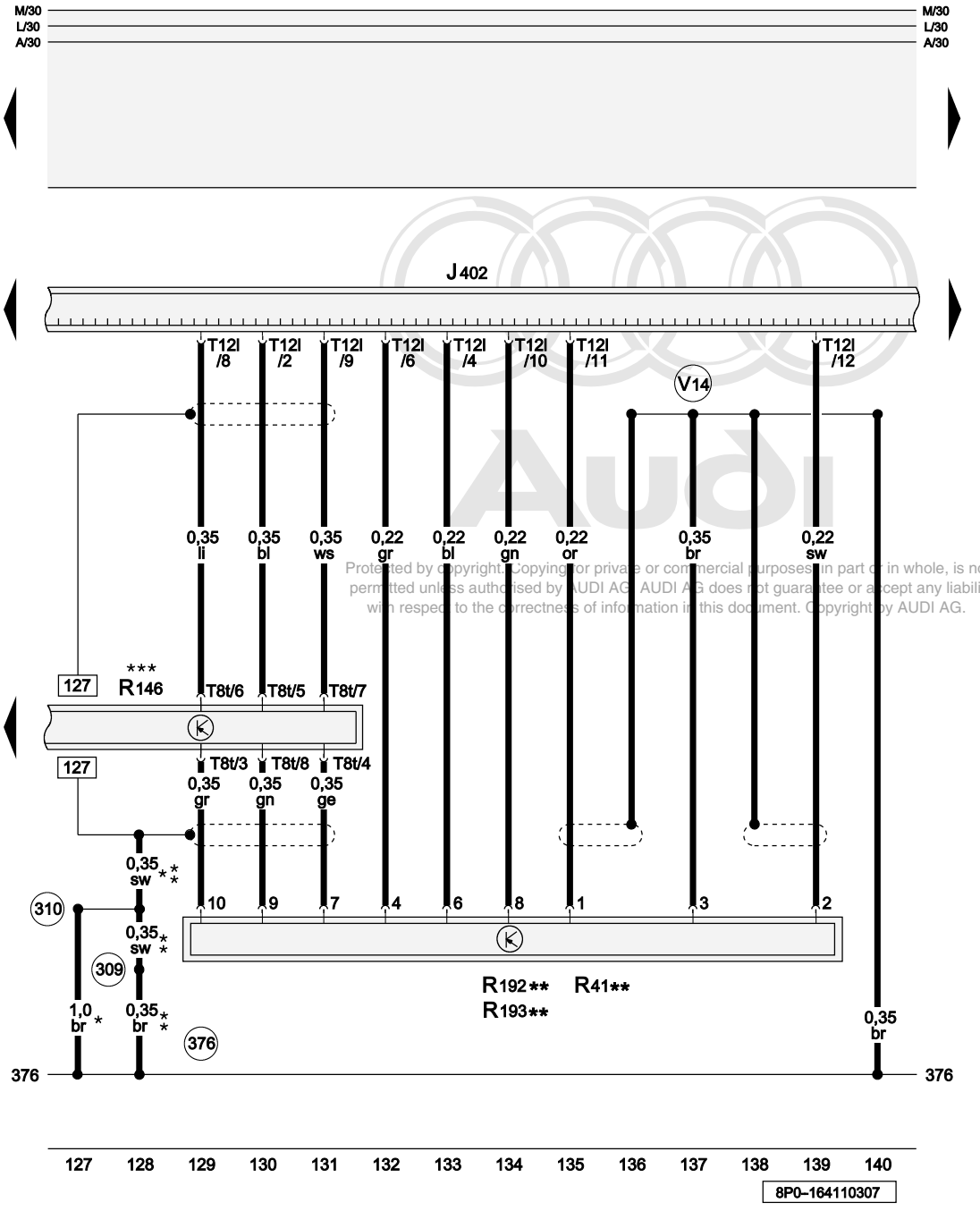


roof aerial

J402	Navigation operating electronics control unit
R11	Aerial
R146	Satellite radio
SB9	Fuse 9 on fuse holder B
SB20	Fuse 20 on fuse holder B
T2av	2-pin connector, black, on right A-pillar
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T8u	8-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V37	Positive connection (30), in communication wiring harness
*	is dropped from November 2006
**	for models with mobile telephone/ telephone only
***	for models with satellite radio only
****	for satellite radio preparation only
#	for models with electronics box low only ⇒ Fitting Locations
##	for models with electronics box high only ⇒ Fitting Locations

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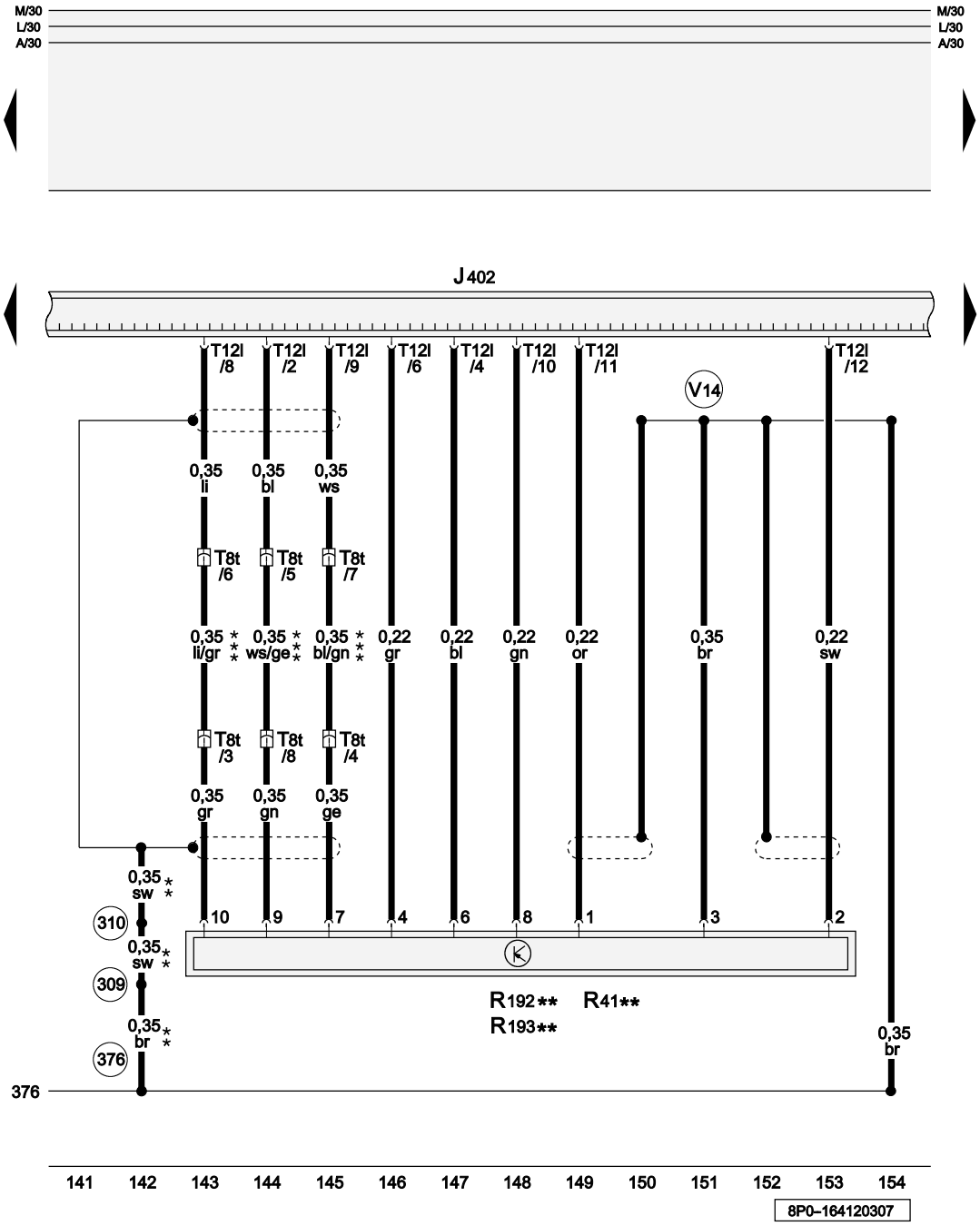


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CD changer, iPod holder, USB connection retainer with satellite radio only

J402	Navigation operating electronics control unit
R41	CD changer
R146	Satellite radio
R192	iPod holder
R193	USB connection retainer
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T12l	12-pin connector, blue (connector B)
309	Earth connection 1, screening, in CD changer wiring harness
310	Earth connection 2, screening, in CD changer wiring harness
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
*	for models without CD changer or iPod holder or USB connection retainer only
**	for models with CD changer or iPod holder or USB connection retainer only
***	for models with satellite radio only

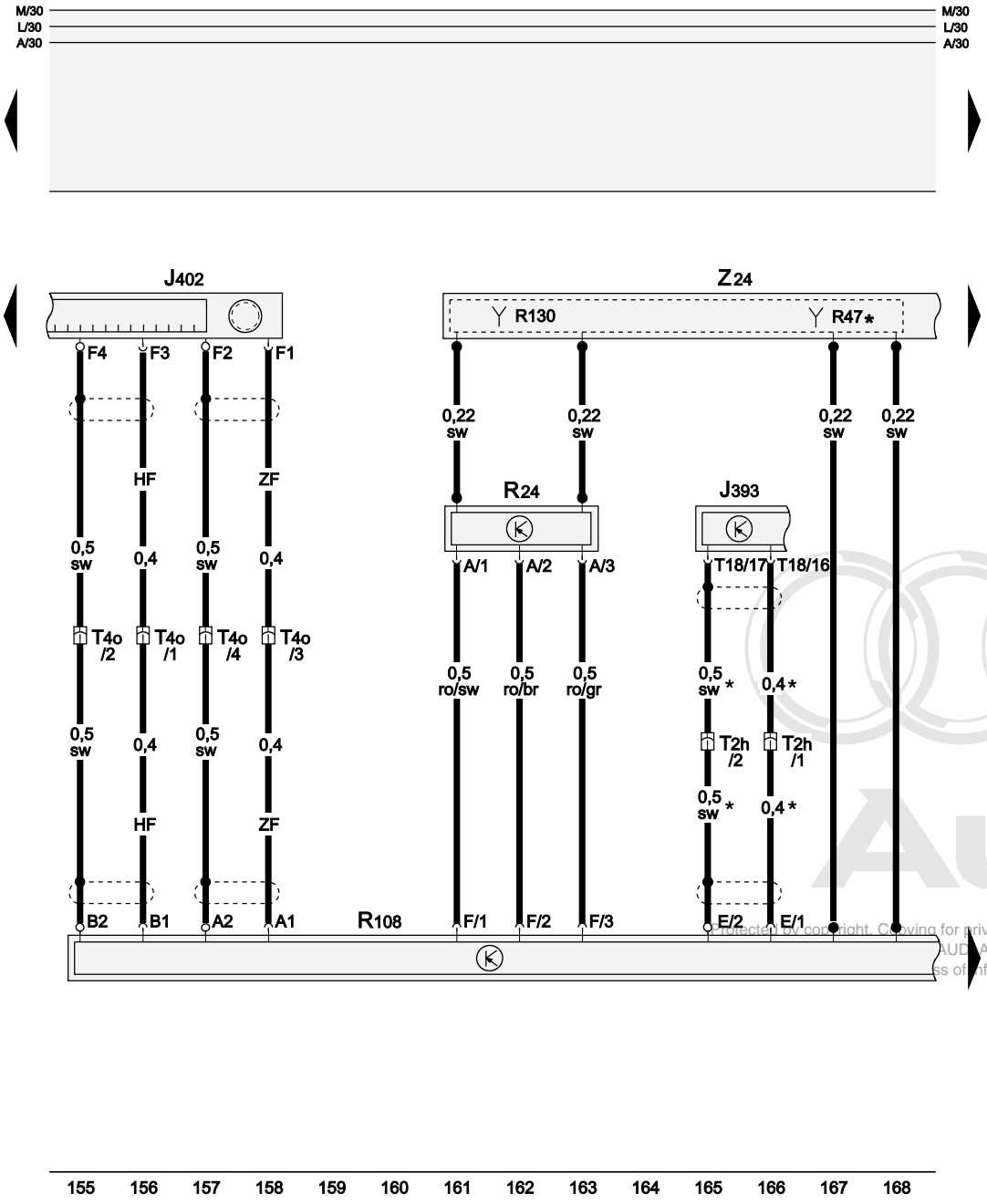


CD changer, iPod holder, USB connection retainer without satellite radio only

J402	Navigation operating electronics control unit
R41	CD changer
R192	iPod holder
R193	USB connection retainer
T8t	8-pin connector, black, in luggage compartment, rear left (connector B)
T12l	12-pin connector, blue (connector B)
309	Earth connection 1, screening, in CD changer wiring harness
310	Earth connection 2, screening, in CD changer wiring harness
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
**	for models with CD changer or iPod holder or USB connection retainer only
***	for models without satellite radio only

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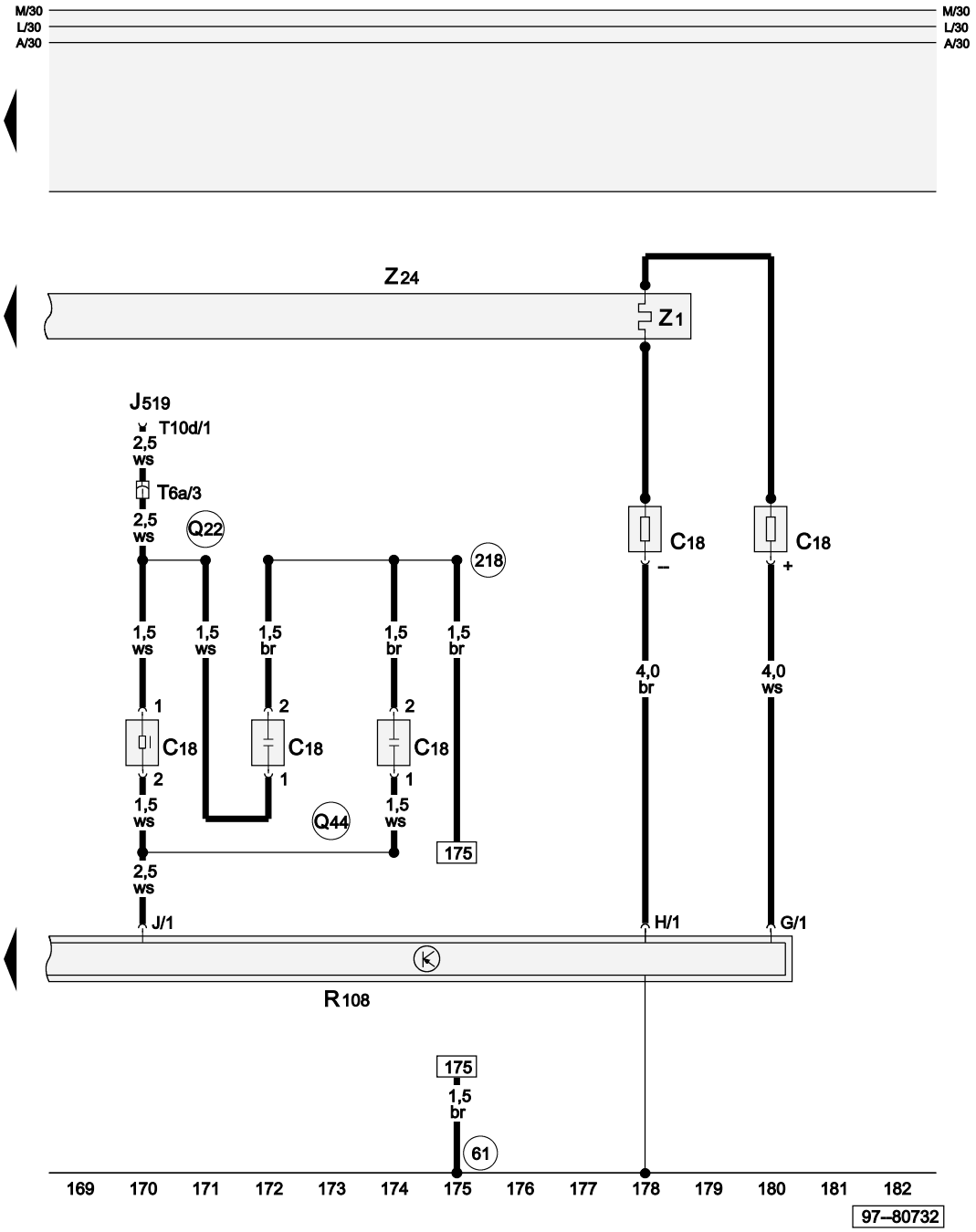


Left aerial module, rear window aerial 1

J393	Convenience system central control unit
J402	Navigation operating electronics control unit
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T4o	4-pin connector, near C-pillar right
T18	18-pin connector, brown (connector A)
Z24	Heated rear window with window aerial
*	for models with central locking or anti-theft alarm system only

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Left aerial module, window aerial suppression filter

C18	Window aerial suppression filter
J519	Onboard supply control unit
R108	Left aerial module
T6a	6-pin connector, black, on left C-pillar
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness

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Radio and navigation system RNS-low

from February 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

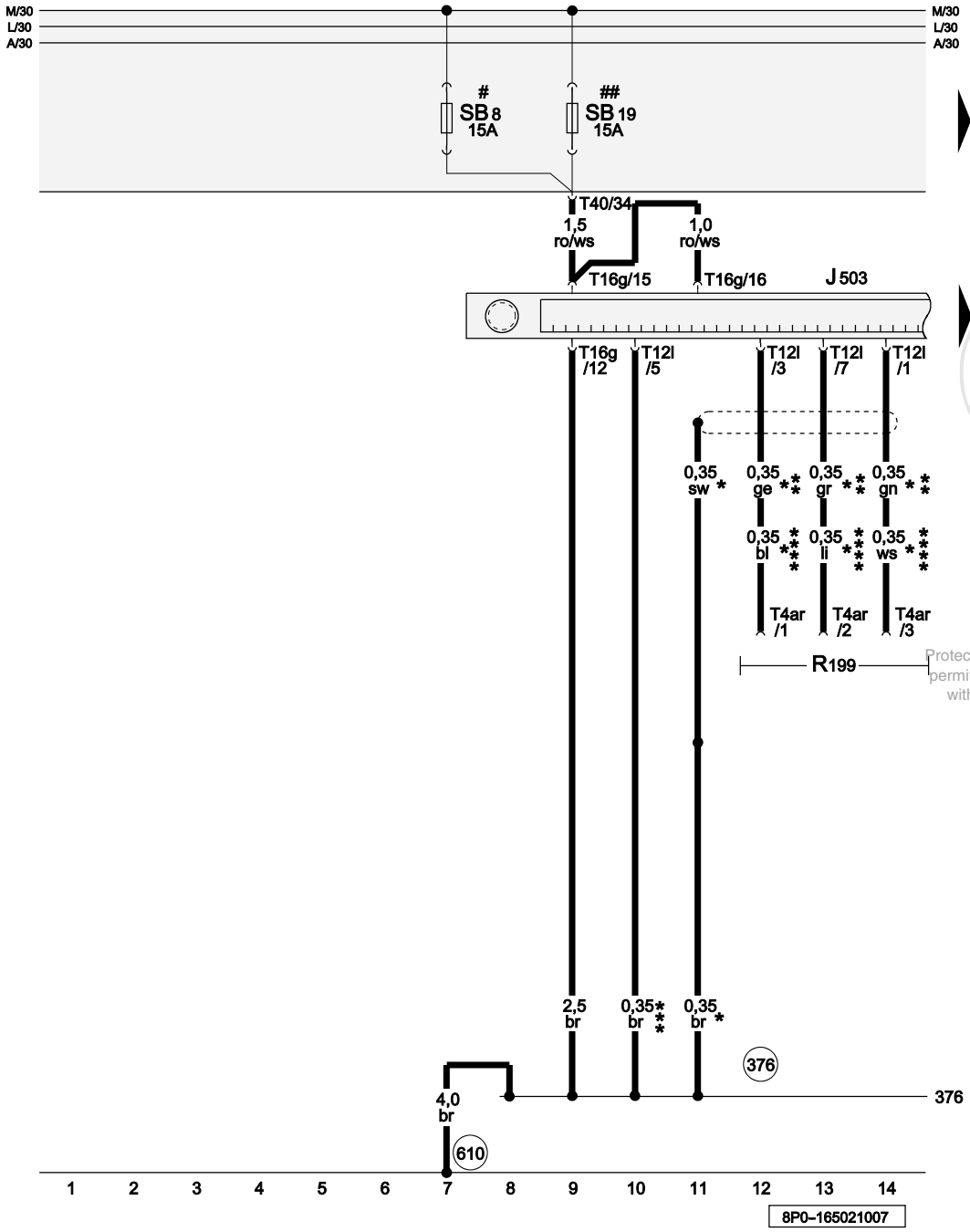
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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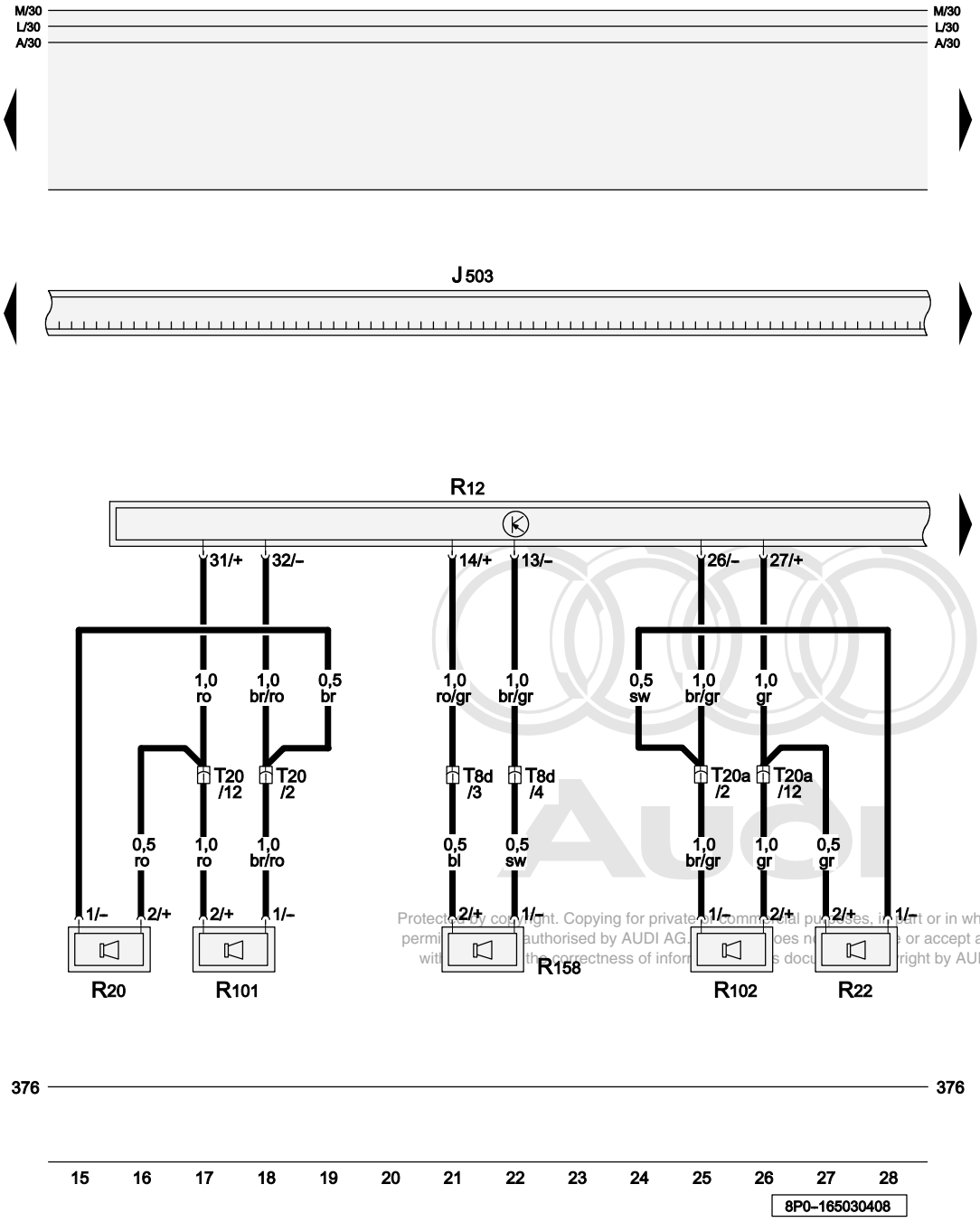


Fuses on fuse holder

J503	Control unit with display for radio and navigation system
R199	Connection for external audio source
SB8	Fuse 8 on fuse holder B
SB19	Fuse 19 on fuse holder B
T4ar	4-pin connector
T12l	12-pin connector, blue (connector B)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
376	Earth connection 11, in main wiring harness
610	Earth point (audio), under centre console, front
*	for models with connection for external audio source only
**	not for models with US equipment
***	for models with Bose sound system only
****	for models with US equipment only
#	for models with electronics box low only ⇒ Fitting Locations
##	for models with electronics box high only ⇒ Fitting Locations

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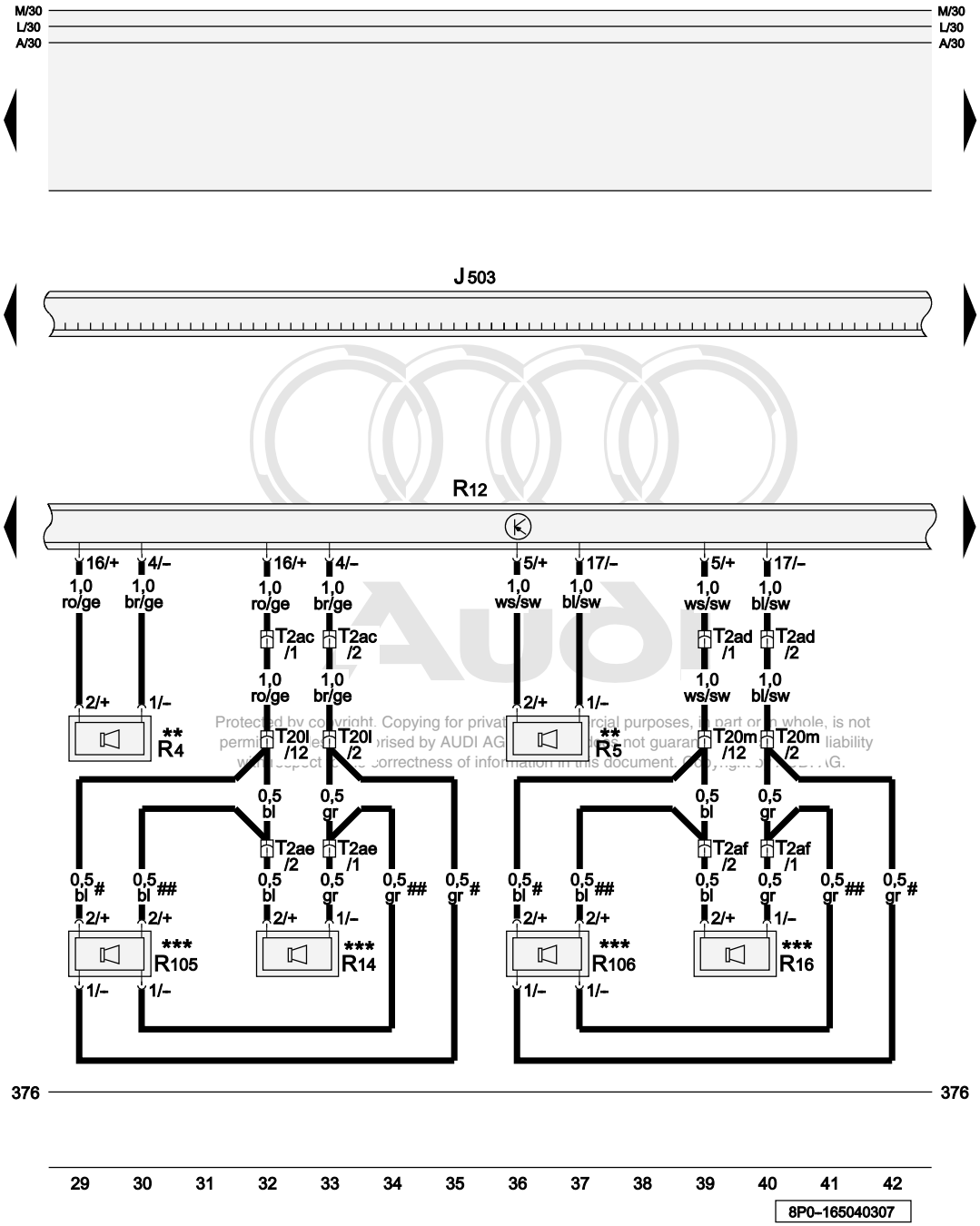


Front loudspeaker with Bose sound system

J503	Control unit with display for radio and navigation system
R12	Amplifier
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right

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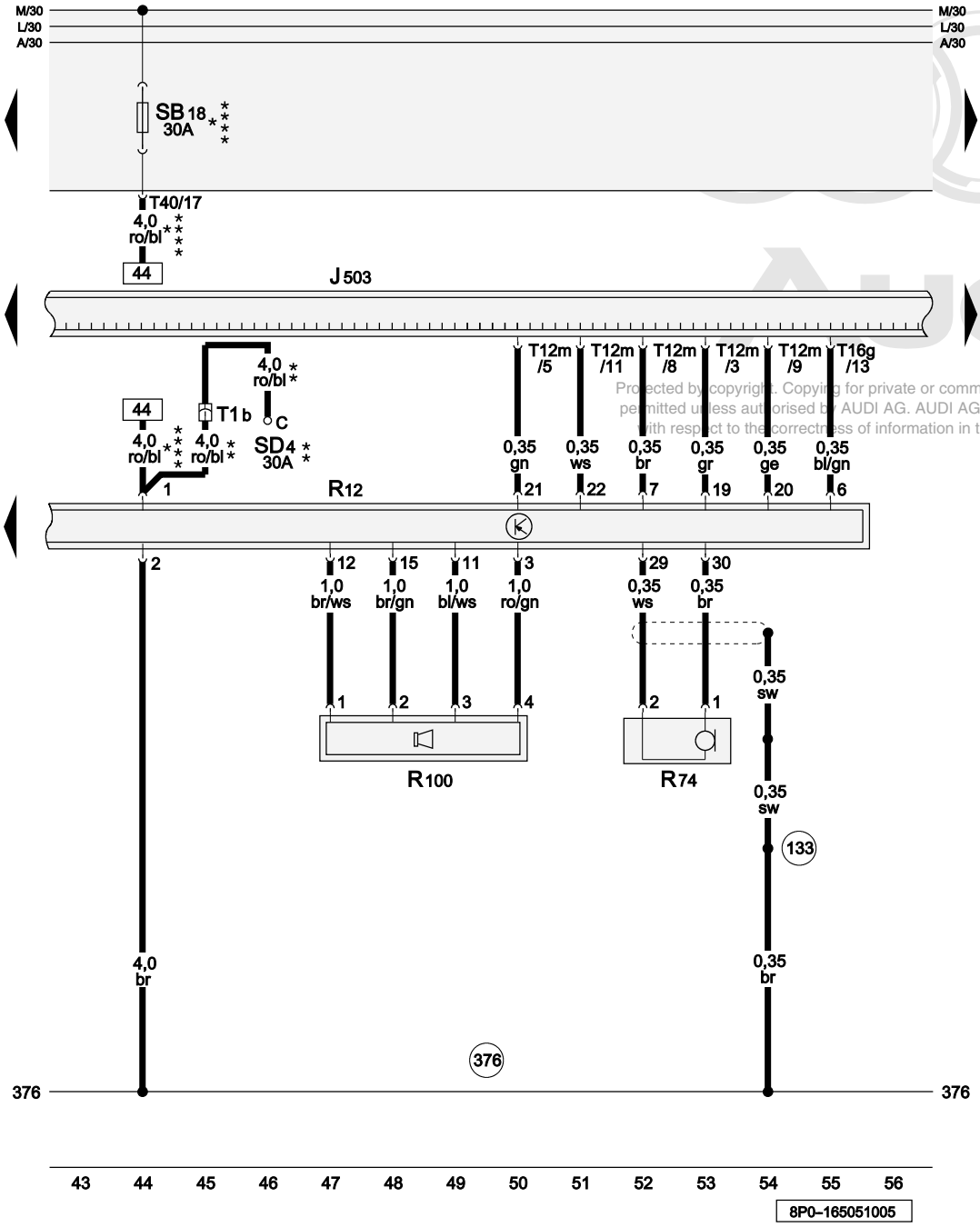


Rear loudspeaker with Bose sound system

J503	Control unit with display for radio and navigation system
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
**	for models with 3-door models only
***	for models with 5-door models only
#	phased-in modification
##	No longer fitted, phased-in modification

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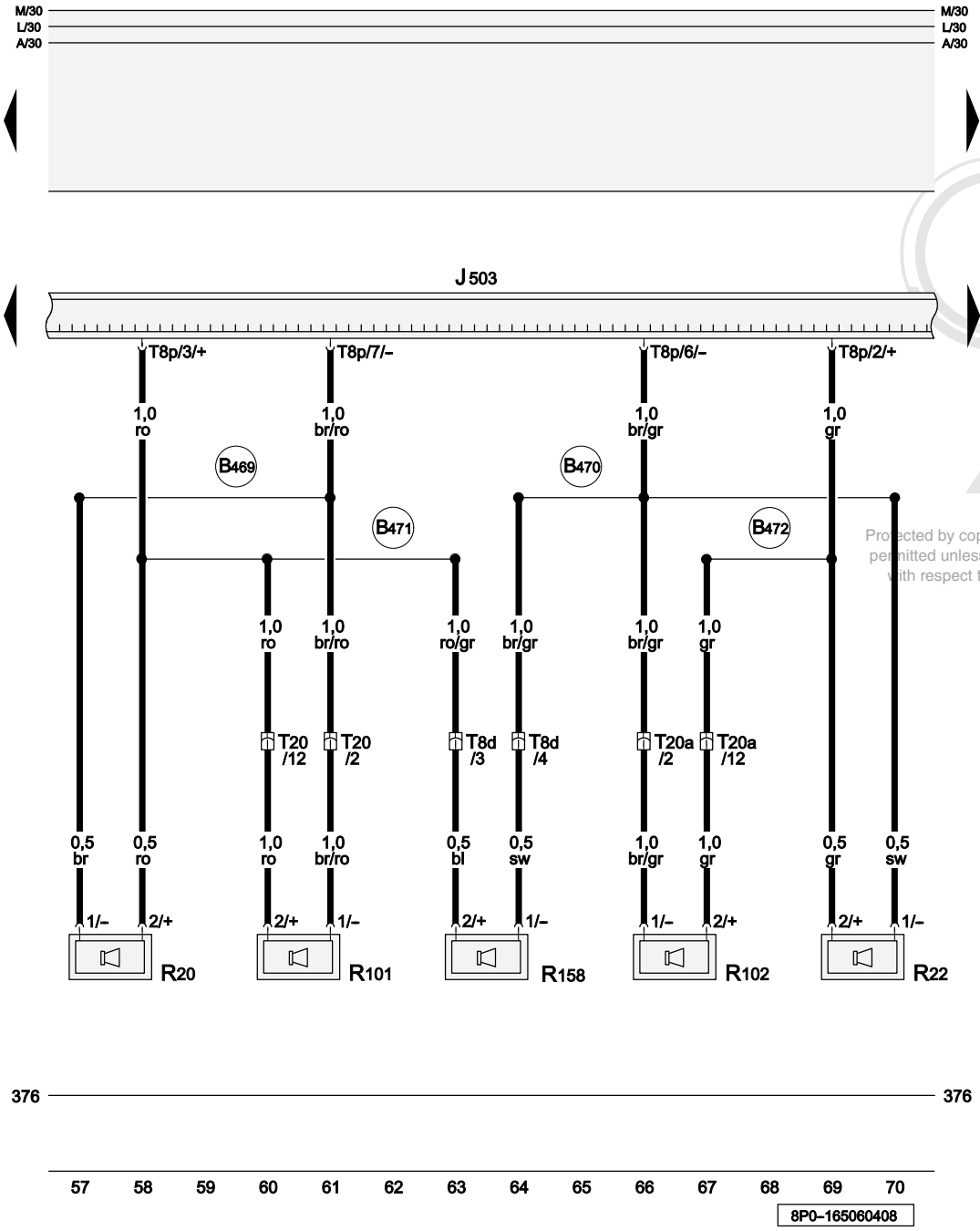


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Internal microphone, bass loudspeaker with Bose sound system

J503	Control unit with display for radio and navigation system
R12	Amplifier
R74	Internal microphone
R100	Bass loudspeaker
SB18	Fuse 18 on fuse holder B
SD4	Fuse 4 on fuse holder D
T1b	Single connector, black, on left C-pillar
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
(133)	Earth connection, in loudspeaker wiring harness
(376)	Earth connection 11, in main wiring harness
*	for models with battery in engine compartment only
**	only for models with battery in luggage compartment, is dropped, from November 2005
****	applicable from November 2005 for models with battery in engine compartment and luggage compartment

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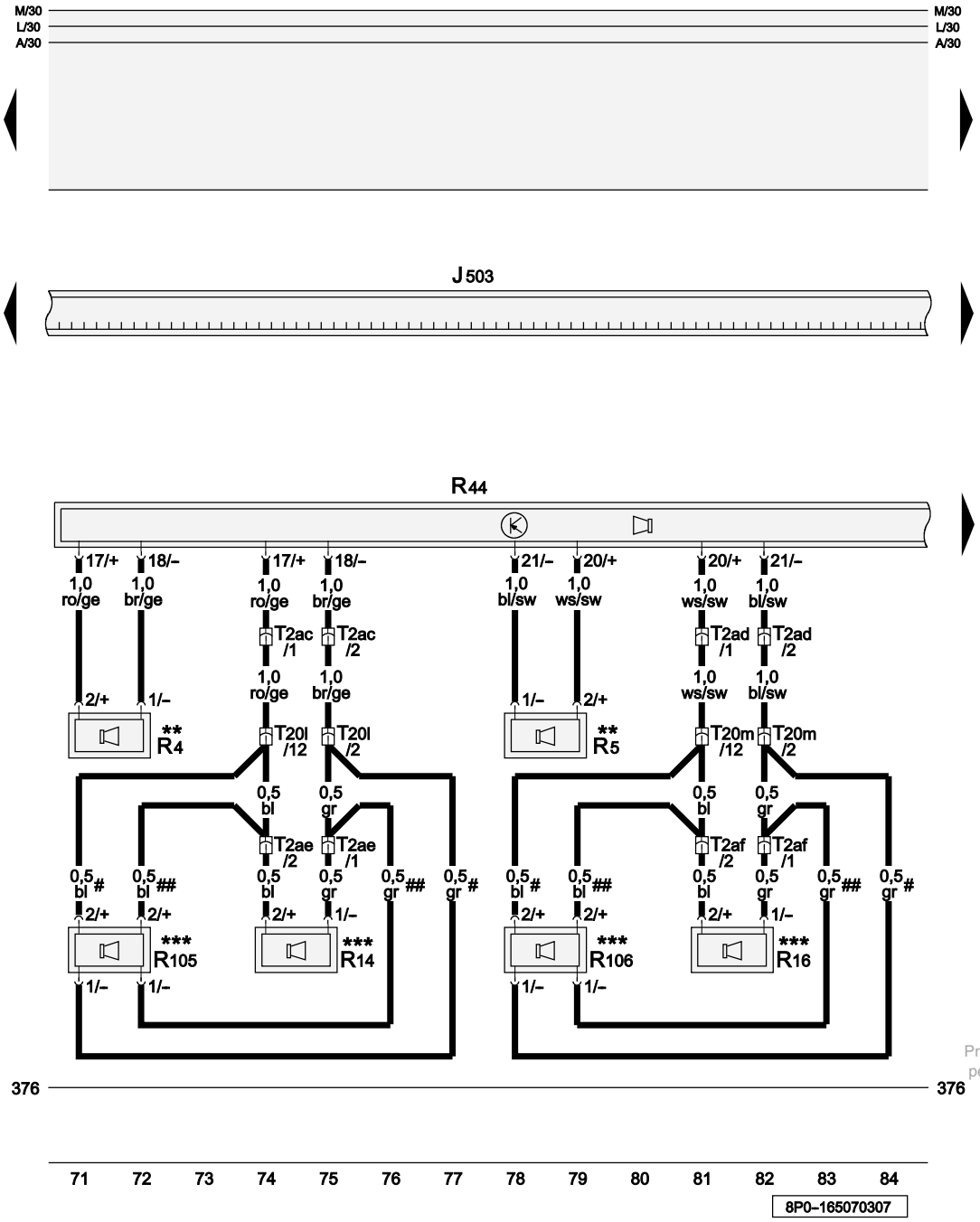


Front loudspeaker with amplifier

J503	Control unit with display for radio and navigation system
R20	Front left treble loudspeaker
R22	Front right treble loudspeaker
R101	Front left mid-range and bass loudspeaker
R102	Front right mid-range and bass loudspeaker
R158	Centre mid-range and treble loudspeaker
T8d	8-pin connector, black, behind centre console
T8p	8-pin connector, brown (connector A)
T20	20-pin connector, black, door A-pillar left
T20a	20-pin connector, black, door A-pillar right
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B472	Connection 8 in main wiring harness

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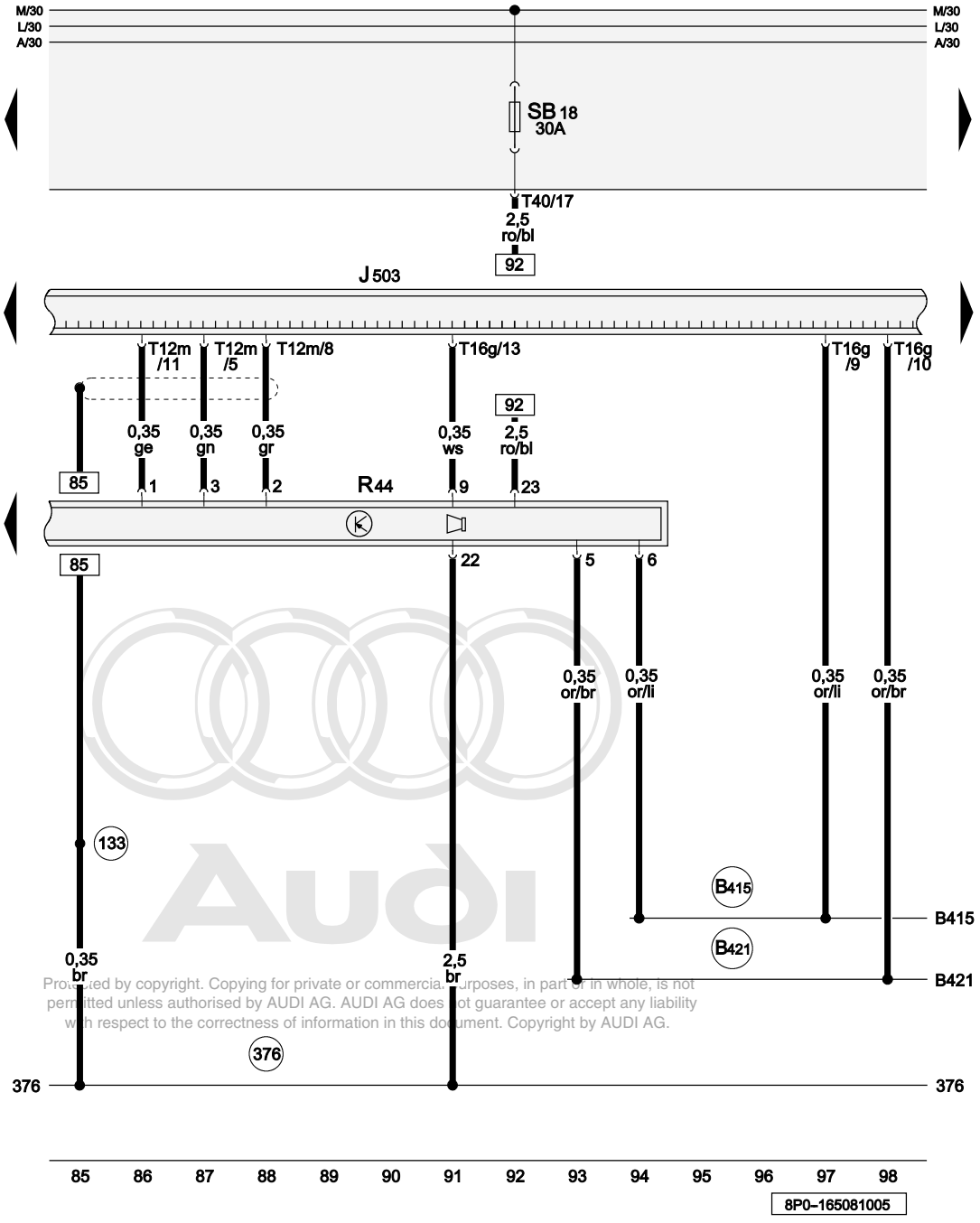


Amplifier with bass loudspeaker, on left in luggage compartment, rear loudspeaker

J503	Control unit with display for radio and navigation system
R4	Rear left loudspeaker
R5	Rear right loudspeaker
R14	Rear left treble loudspeaker
R16	Rear right treble loudspeaker
R44	Amplifier with bass loudspeaker, on left in luggage compartment
R105	Rear left mid-range loudspeaker
R106	Rear right mid-range loudspeaker
T2ac	2-pin connector, black, behind side trim on rear left
T2ad	2-pin connector, black, behind side trim on rear right
T2ae	2-pin connector, black, in rear left door
T2af	2-pin connector, black, in rear right door
T20l	20-pin connector, black, door B-pillar left
T20m	20-pin connector, black, door B-pillar right
**	for models with 3-door models only
***	for models with 5-door models only
#	phased-in modification
##	No longer fitted, phased-in modification

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ro	=	red
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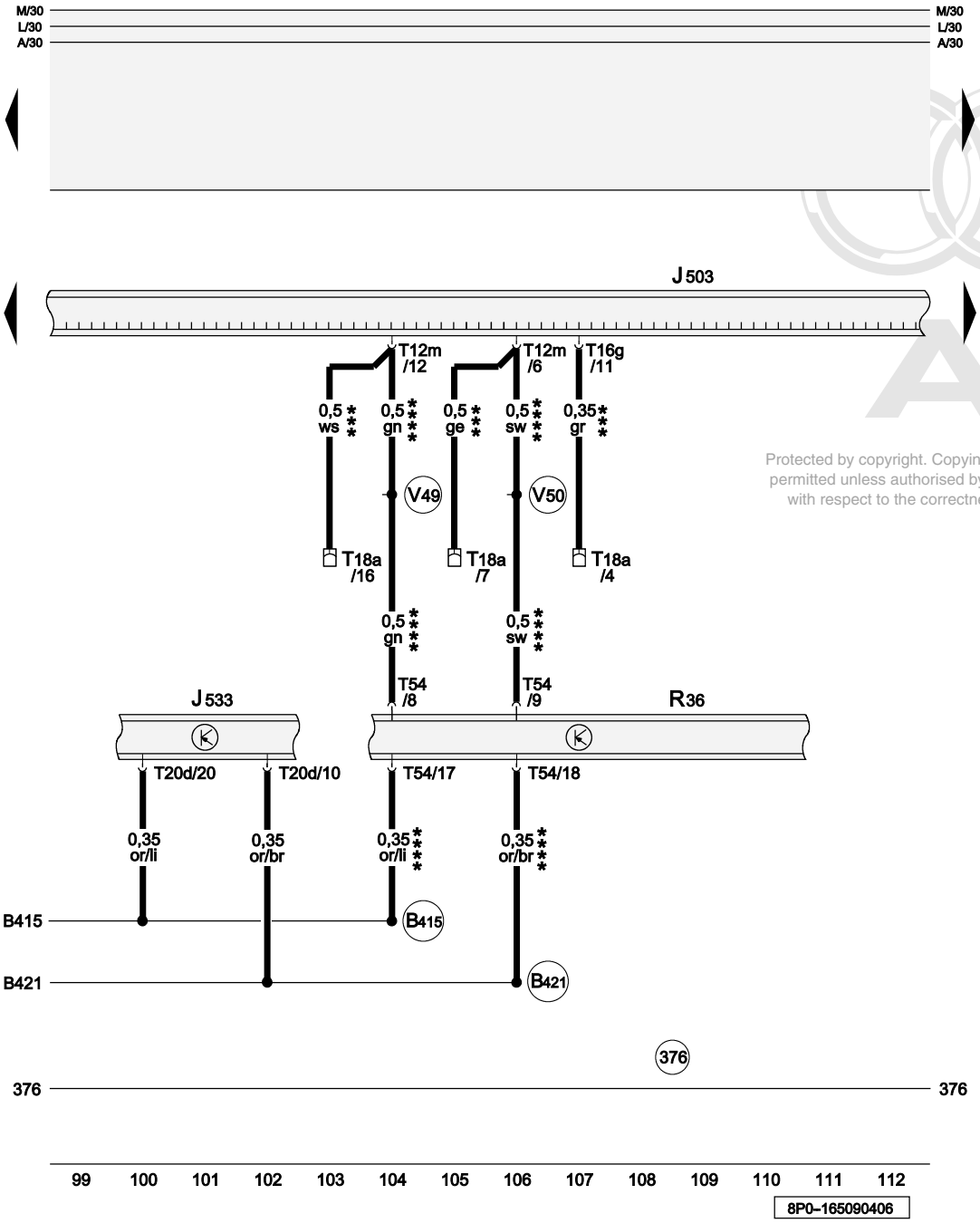


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Amplifier with bass loudspeaker, on left in luggage compartment

J503	Control unit with display for radio and navigation system
R44	Amplifier with bass loudspeaker, on left in luggage compartment
SB18	Fuse 18 on fuse holder B
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
133	Earth connection, in loudspeaker wiring harness
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

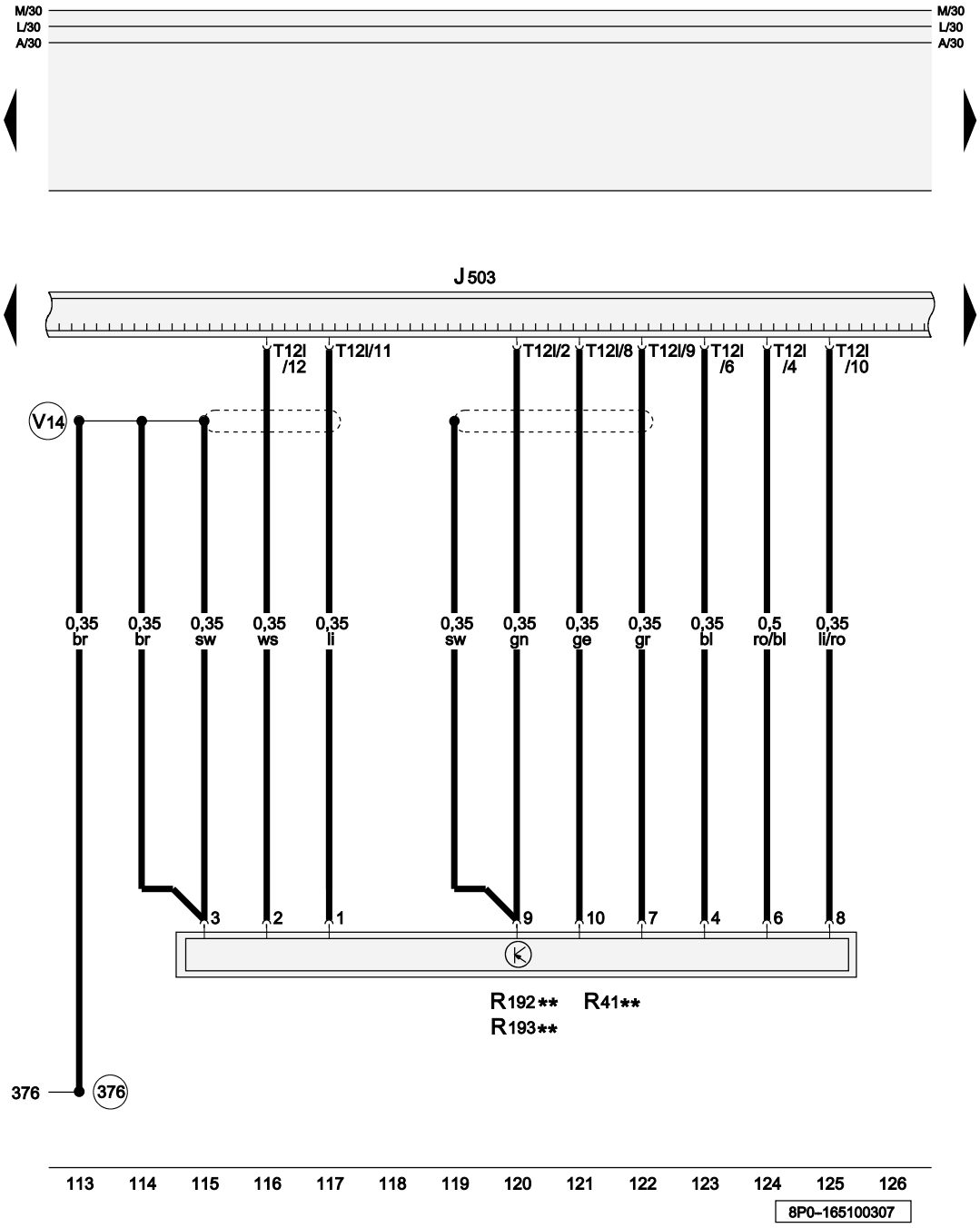


Data bus diagnostic interface, telephone transmitter and receiver unit

J503	Control unit with display for radio and navigation system
J533	Data bus diagnostic interface
R36	Telephone transmitter and receiver unit
T12m	12-pin connector, black (connector C, connector locking green)
T16g	16-pin connector, black (connector D)
T18a	18-pin connector, black, near glove compartment (connector A)
T20d	20-pin connector, yellow (connector A)
T54	54-pin connector, black (connector A)
376	Earth connection 11, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
V49	Connection (NF +), in communication wiring harness
V50	Connection (NF -), in communication wiring harness
***	only preparation for mobile telephone without hands-free system
****	only preparation for mobile telephone with hands-free system

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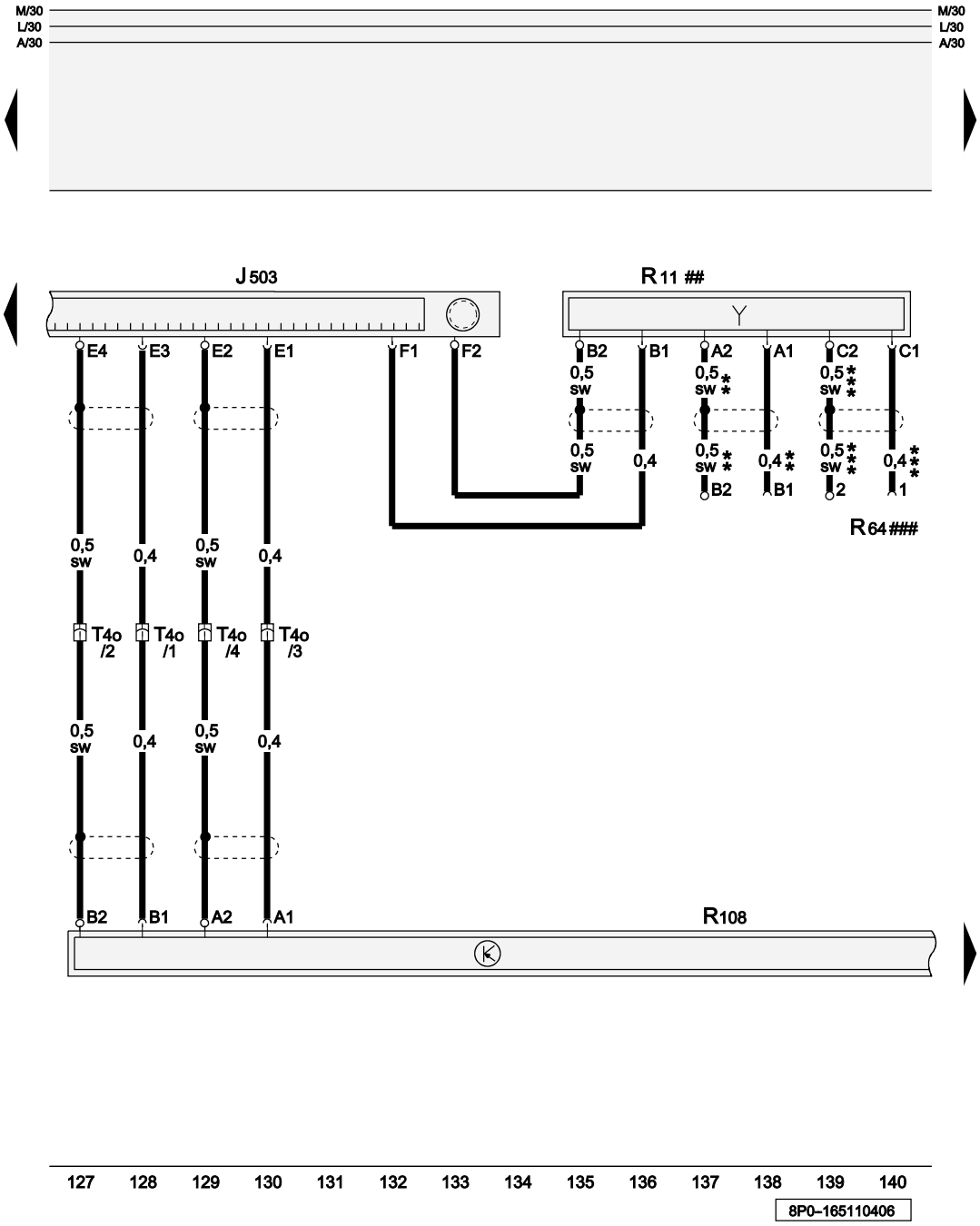


CD changer, iPod holder, USB connection retainer

J503	Control unit with display for radio and navigation system
R41	CD changer
R192	iPod holder
R193	USB connection retainer
T12l	12-pin connector, blue (connector B)
376	Earth connection 11, in main wiring harness
V14	Connection (screening), in CD changer wiring harness
**	for models with CD changer or iPod holder or USB connection retainer only

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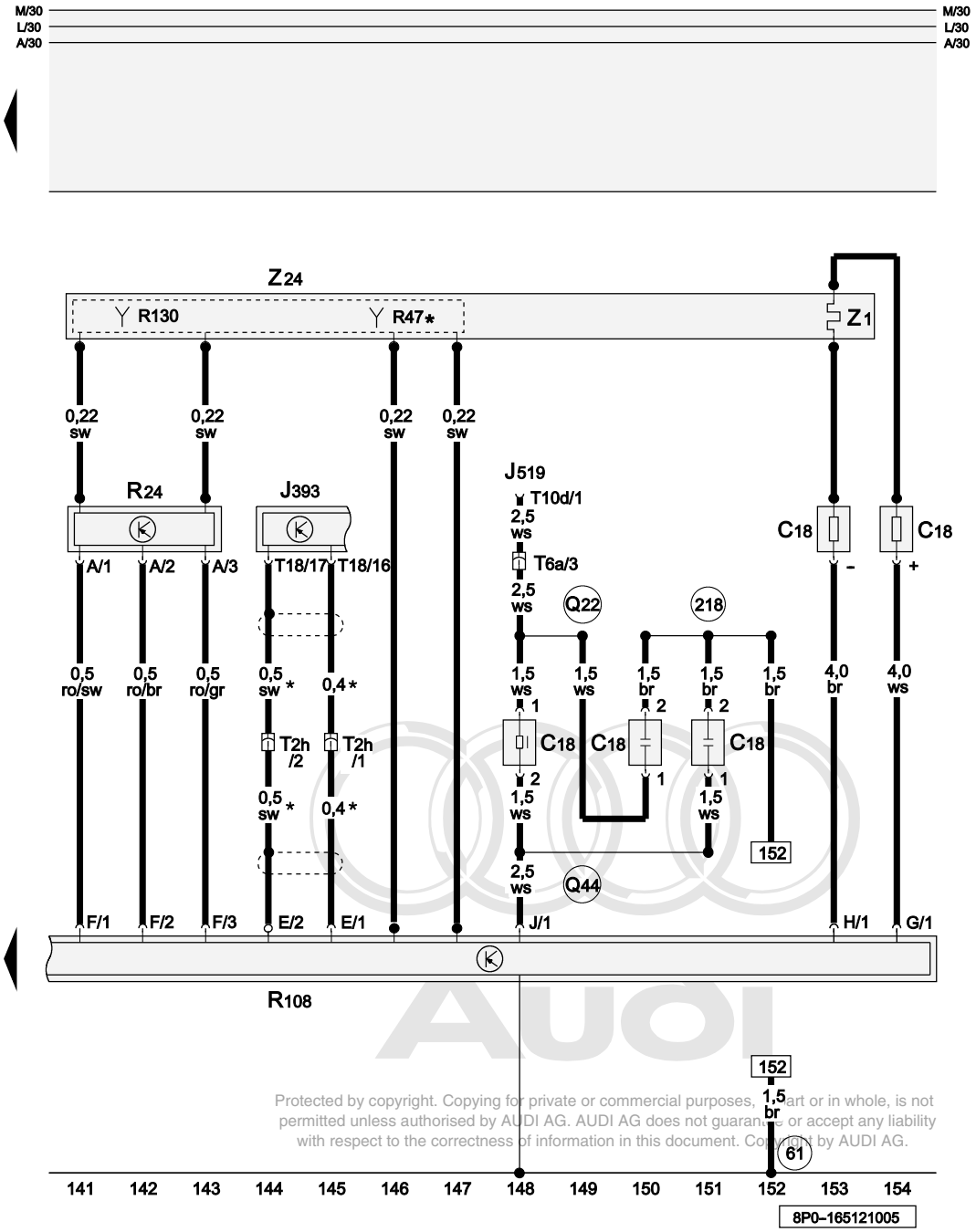


roof aerial

J503	Control unit with display for radio and navigation system
R11	Aerial
R64	Remote control receiver for auxiliary heating
R108	Left aerial module
T4o	4-pin connector, near C-pillar right
**	for models with preparation for mobile telephone only
***	for models with auxiliary heating only
##	R11 is replaced by R66
###	not for models with US equipment

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Left aerial module, rear window aerial 1

C18	Window aerial suppression filter
J393	Convenience system central control unit
J519	Onboard supply control unit
R24	Aerial amplifier
R47	Central locking and anti-theft alarm system aerial
R108	Left aerial module
R130	Rear window aerial 1
T2h	2-pin connector, on right C-pillar
T6a	6-pin connector, black, on left C-pillar
T18	18-pin connector, brown (connector A)
T10d	10-pin connector, black (connector K)
Z1	Heated rear window
Z24	Heated rear window with window aerial
61	Earth point, left C-pillar
218	Earth connection 1, in rear lid wiring harness
Q22	Connection 1, in rear lid wiring harness
Q44	Connection 2, in rear lid wiring harness
*	for models with central locking or anti-theft alarm system only

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2.0 l - Diesel engine (120 kW - unit injectors - 4 cylinder), engine code BUY

from model year 2006

2.0 l - Diesel engine (125 kW - unit injectors - 4 cylinder), engine code BMN

from model year 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

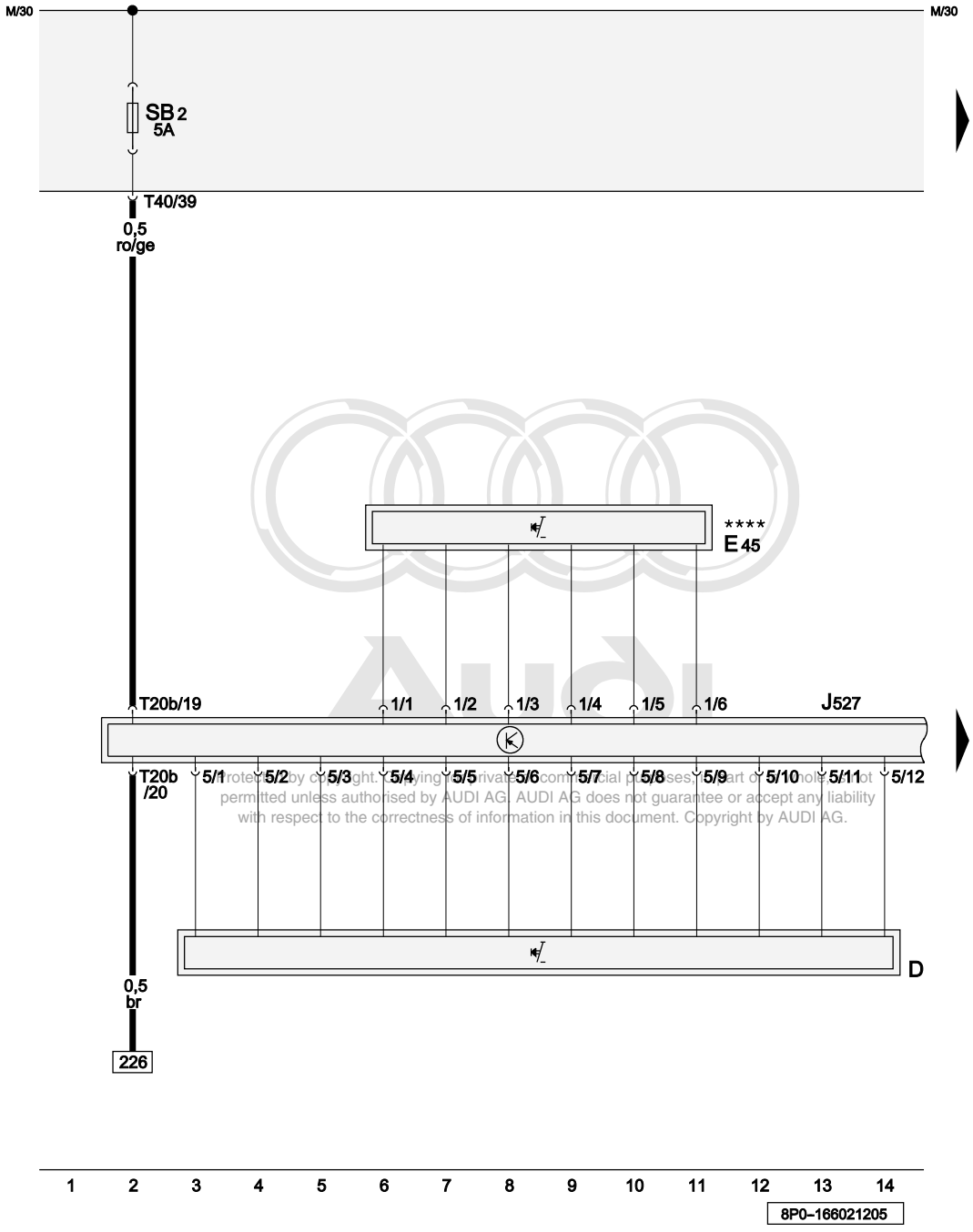
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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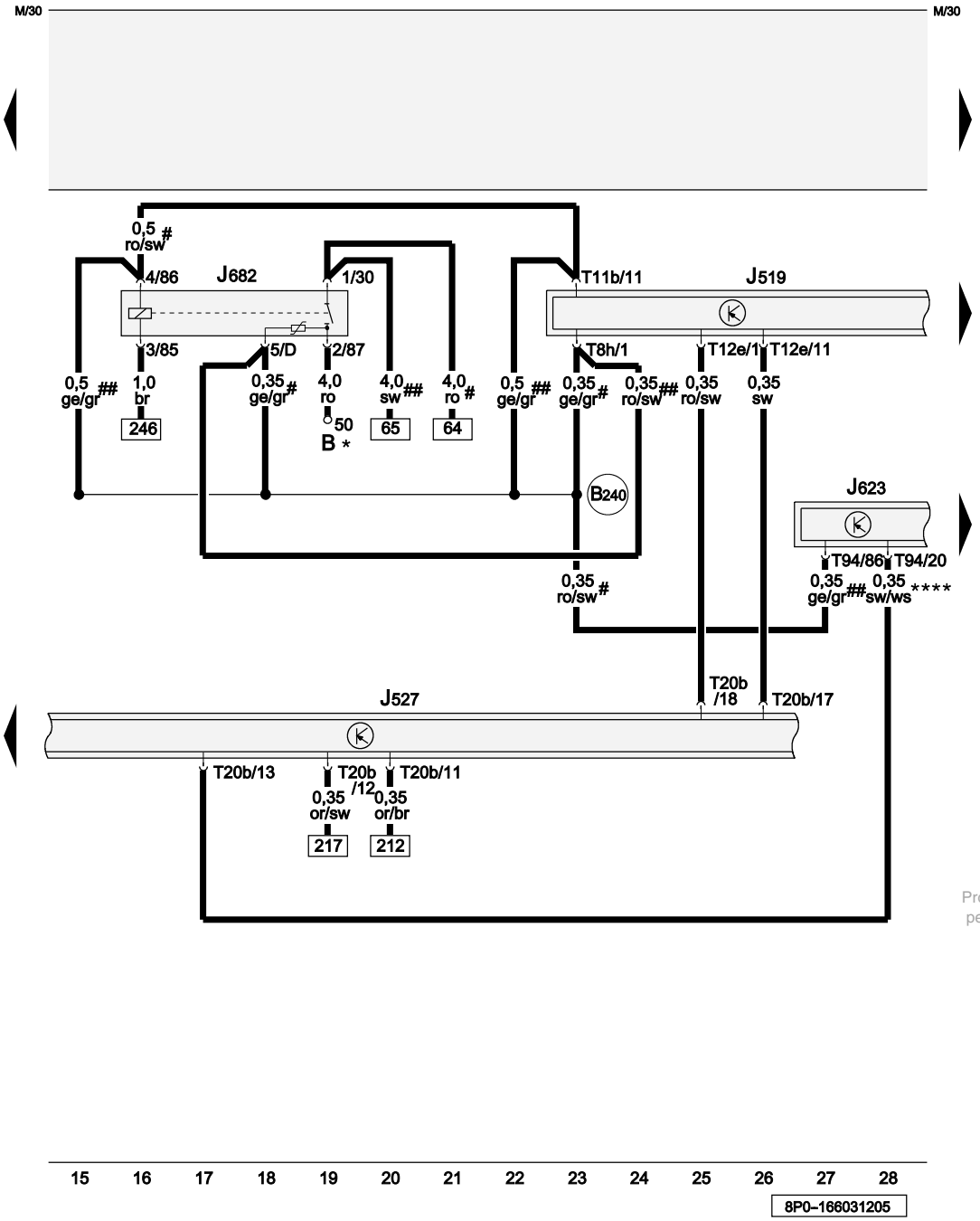


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Cruise control system switch, ignition/starter switch

D	Ignition/starter switch
E45	Cruise control system switch
J527	Steering column electronics control unit
SB2	Fuse 2 on fuse holder B
T20b	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
****	for models with cruise control system only

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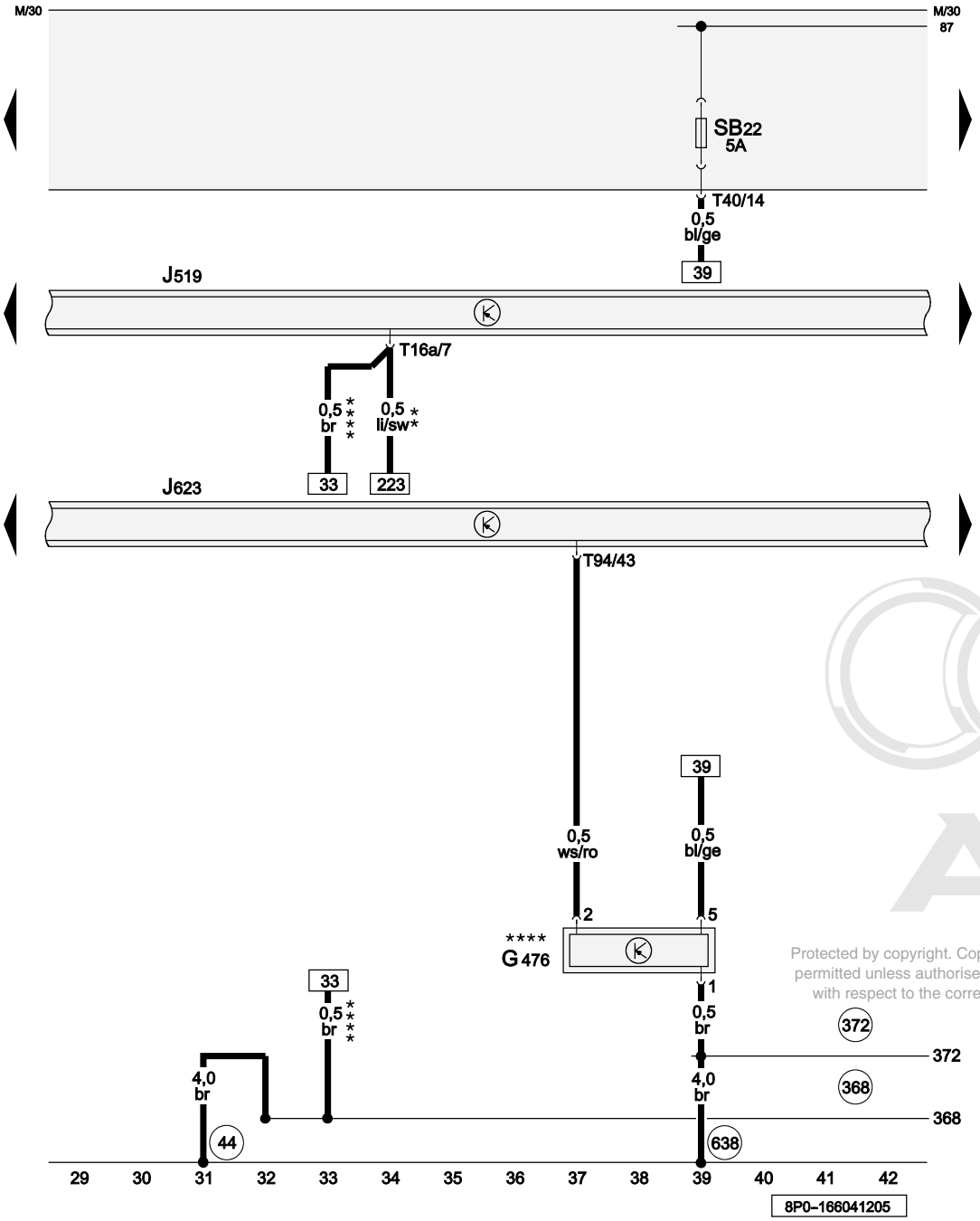


Terminal 50 voltage supply relay

B	Starter
J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
T8h	8-pin connector, black (connector F)
T11b	11-pin connector, black (connector A)
T12e	12-pin connector, black (connector G)
T20b	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B240	Positive connection 2 (50), in interior wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
****	for models with cruise control system only
#	No longer fitted, phased-in modification
##	phased-in modification

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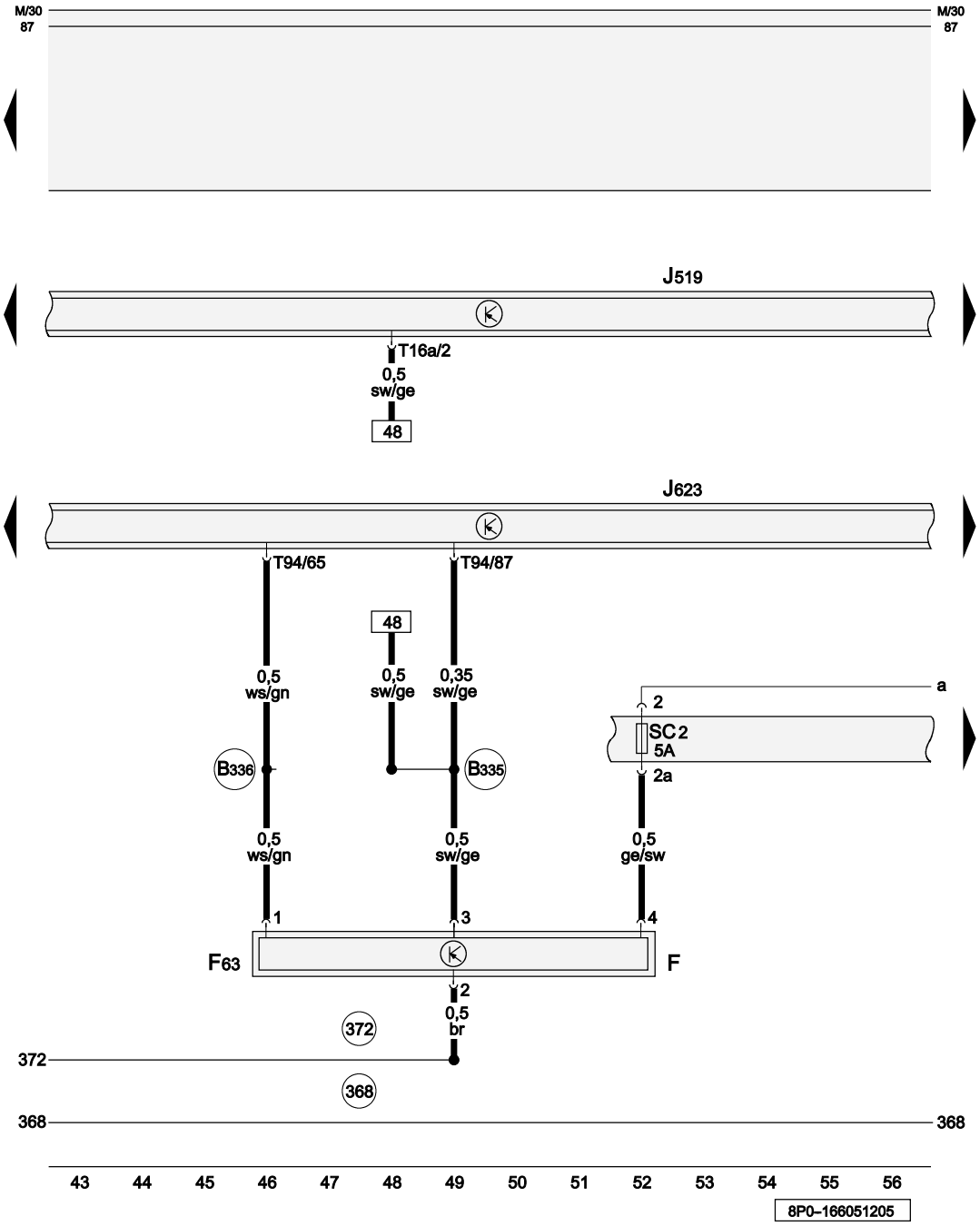


Clutch position sender

G476	Clutch position sender
J519	Onboard supply control unit
J623	Engine control unit
SB22	Fuse 22 on fuse holder B
T16a	16-pin connector, black (connector E)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
44	Earth point, lower part of left A-pillar
368	Earth connection 3, in main wiring harness
372	Earth connection 7, in main wiring harness
638	Earth point, right A-pillar
**	for models with direct shift gearbox (02E) only
****	for models with manual gearbox only

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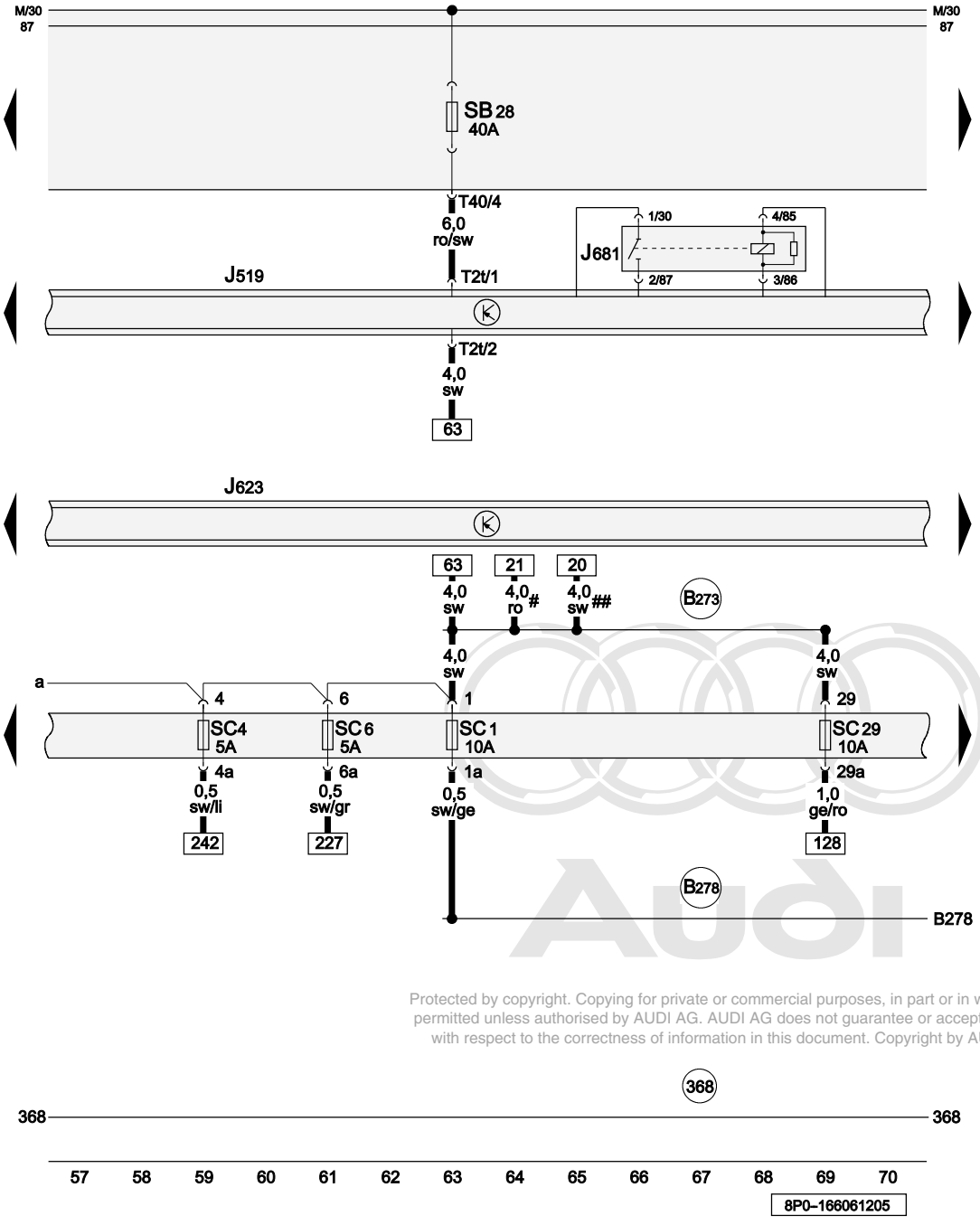


Brake light switch, brake pedal switch

F	Brake light switch
F63	Brake pedal switch
J519	Onboard supply control unit
J623	Engine control unit
SC2	Fuse 2 on fuse holder C
T16a	16-pin connector, black (connector E)
T94	94-pin connector, black (connector B)
368	Earth connection 3, in main wiring harness
372	Earth connection 7, in main wiring harness
B335	Connection 1 (54), in main wiring harness
B336	Connection 2 (54), in main wiring harness

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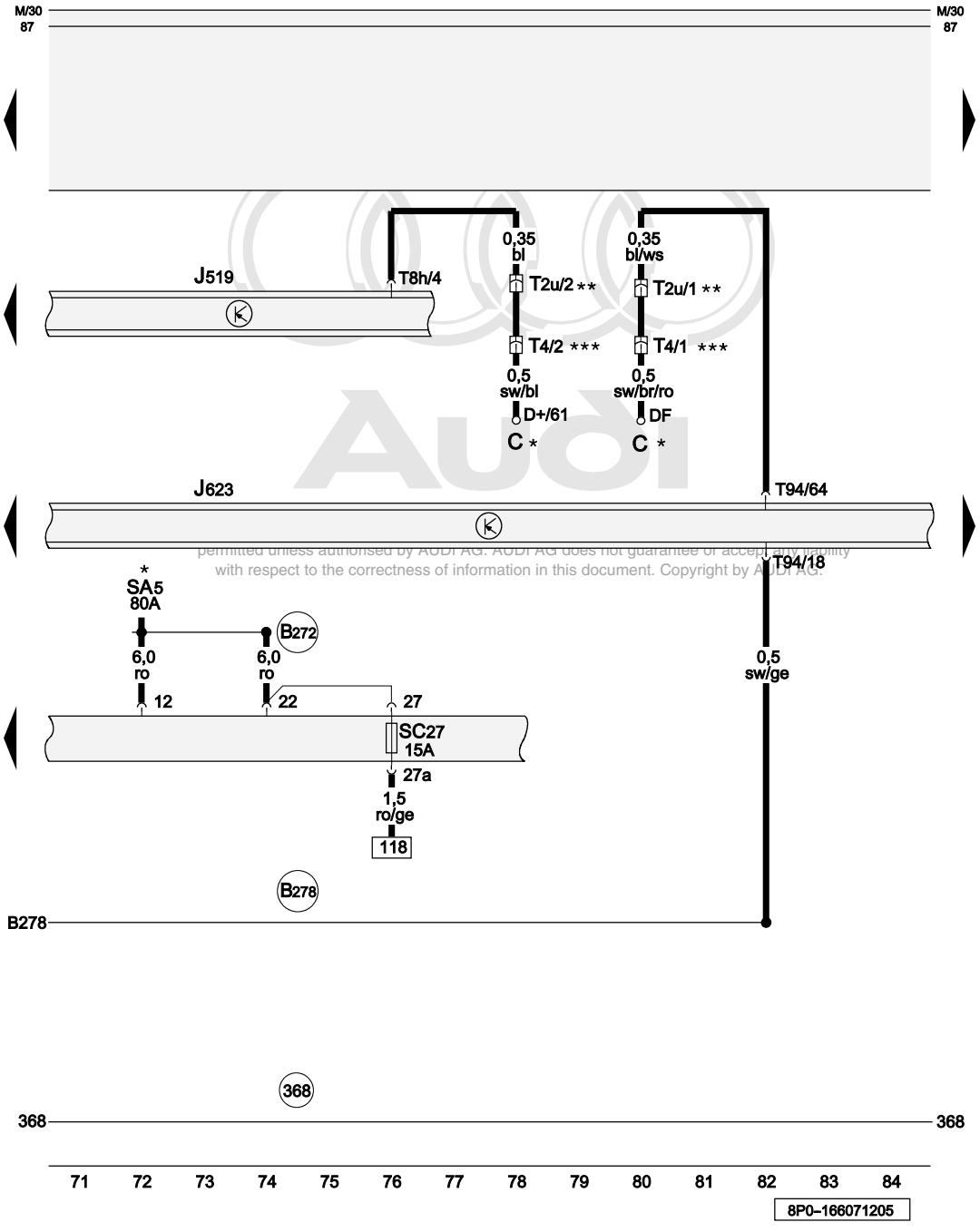


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Terminal 15 voltage supply relay 2

J519	Onboard supply control unit
J623	Engine control unit
J681	Terminal 15 voltage supply relay 2
SB28	Fuse 28 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC6	Fuse 6 on fuse holder C
SC29	Fuse 29 on fuse holder C
T2t	2-pin connector, black (connector L)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
368	Earth connection 3, in main wiring harness
B273	Positive connection (15), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
#	No longer fitted, phased-in modification
##	phased-in modification

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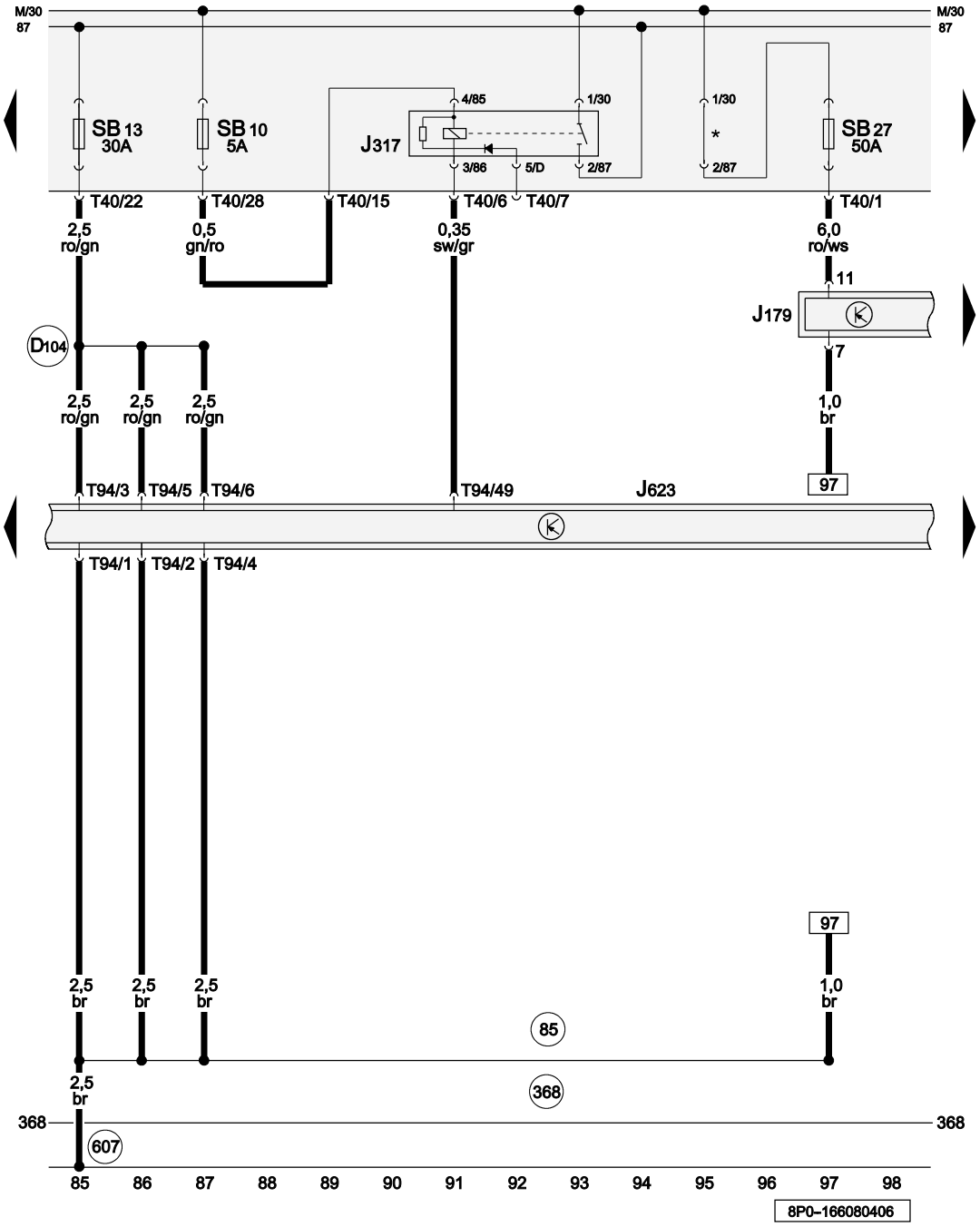


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Alternator

C	Alternator
J519	Onboard supply control unit
J623	Engine control unit
SA5	Fuse 5 on fuse holder A
SC27	Fuse 27 on fuse holder C
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T94	94-pin connector, black (connector B)
368	Earth connection 3, in main wiring harness
B272	Positive connection (30), in main wiring harness
B278	Positive connection 2 (15a), in main wiring harness
*	⇒ applicable Current Flow Diagram for models with battery in engine compartment
**	for models without air conditioning system only
***	for models with air conditioning system only

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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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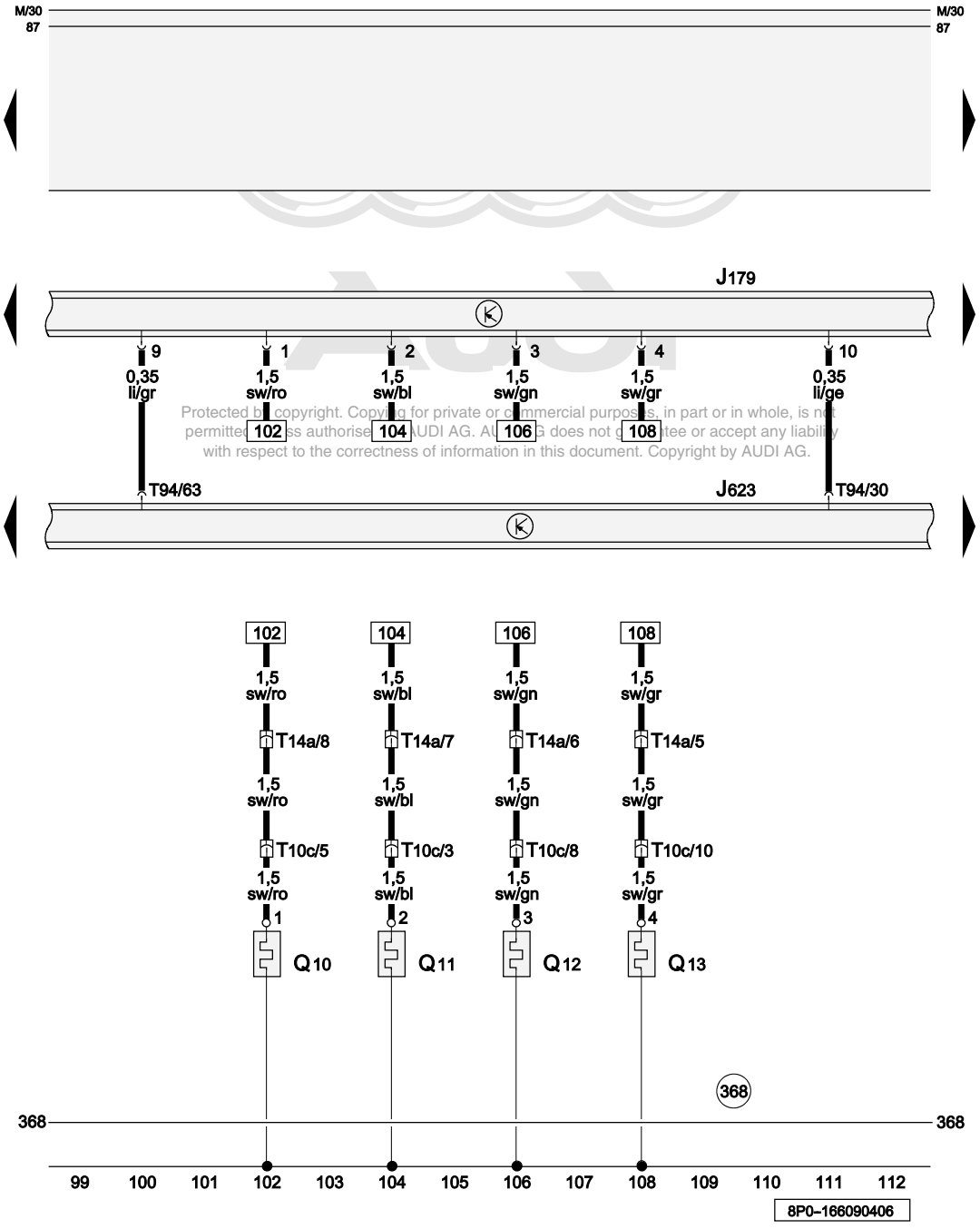


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br = brown
gn = green
bl = blue
gr = grey
li = purple
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Terminal 30 voltage supply relay

J179	Automatic glow period control unit
J317	Terminal 30 voltage supply relay
J623	Engine control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB27	Fuse 27 on fuse holder B
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
85	Earth connection 1, in engine compartment wiring harness
368	Earth connection 3, in main wiring harness
607	Earth point, on left in plenum chamber
D104	Positive connection 2 (30a), in engine compartment wiring harness
*	electronics box, relay location 2 - bridge

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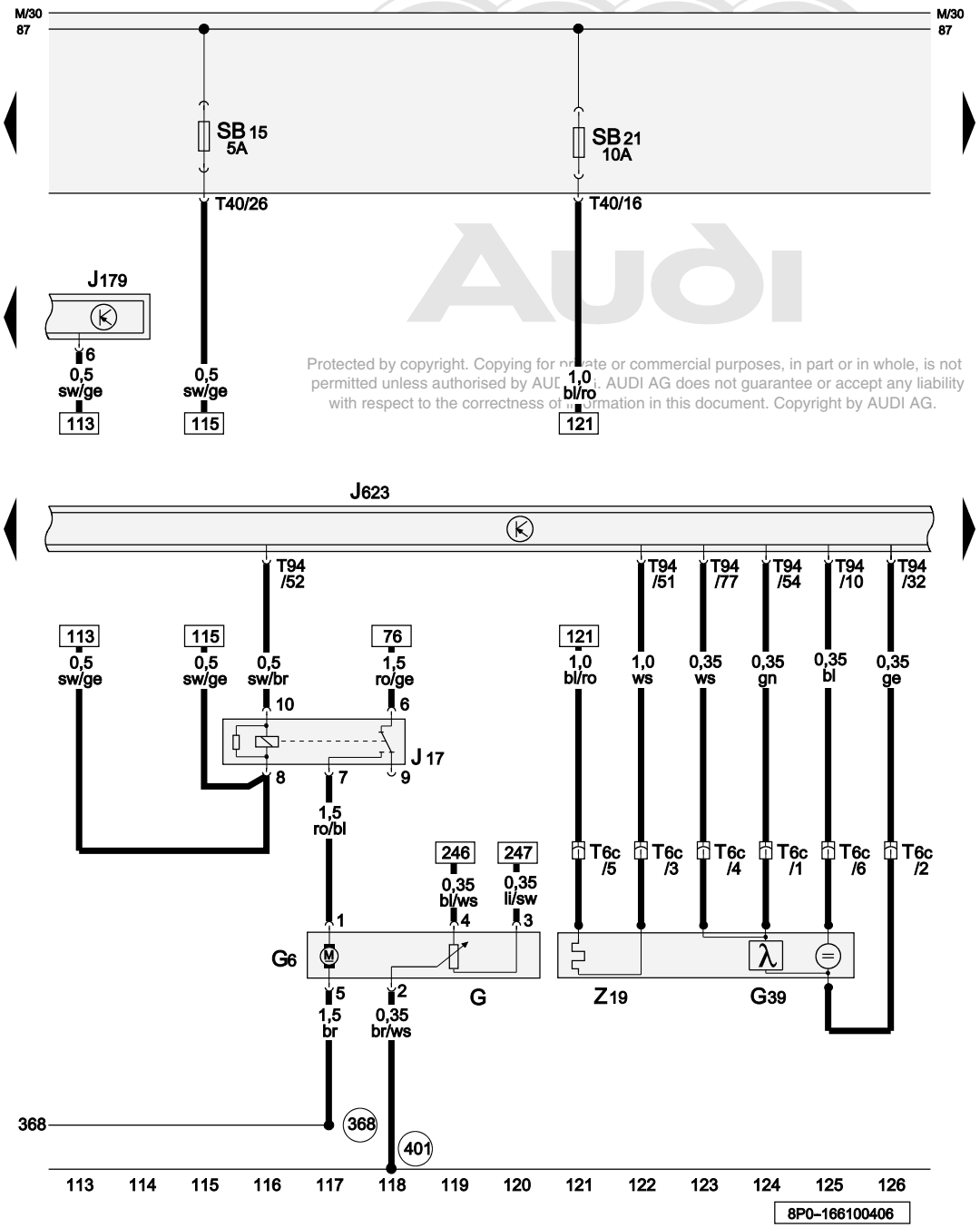


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Glow plugs, automatic glow period control unit

J179	Automatic glow period control unit
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T10c	10-pin connector, black, in engine compartment
T14a	14-pin connector, black, near relay carrier electronics box
T94	94-pin connector, black (connector B)
(368)	Earth connection 3, in main wiring harness

ws	=	white
sw	=	black
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gn	=	green
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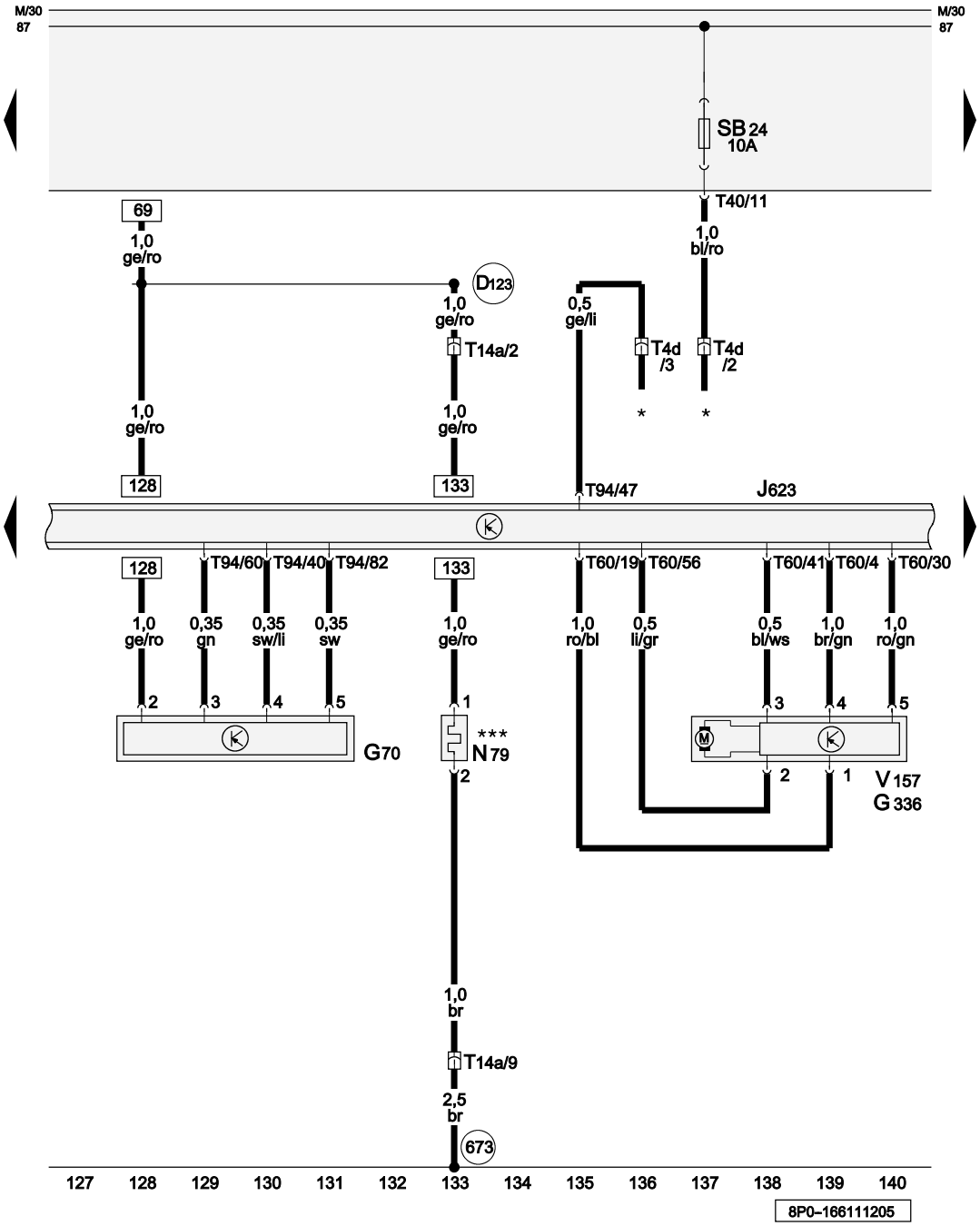


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Fuel pump, lambda probe

G	Fuel gauge sender
G6	Fuel system pressurisation pump
G39	Lambda probe
J17	Fuel pump relay
J179	Automatic glow period control unit
J623	Engine control unit
SB15	Fuse 15 on fuse holder B
SB21	Fuse 21 on fuse holder B
T6c	6-pin connector, black, on lambda probe upstream of catalytic converter
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T94	94-pin connector, black (connector B)
Z19	Lambda probe heater
(368)	Earth connection 3, in main wiring harness
(401)	Earth connection (sender earth), in interior wiring harness

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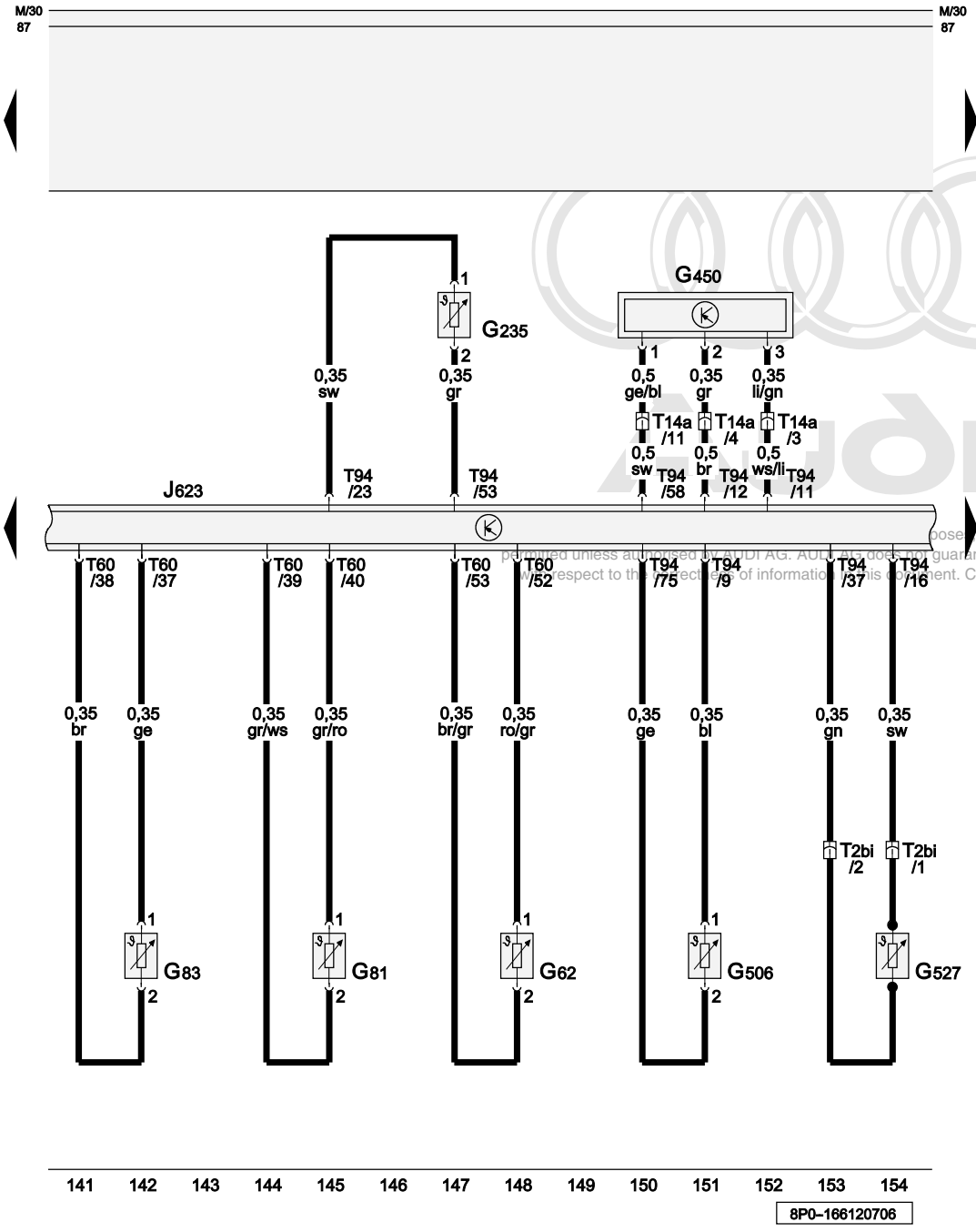


Heater element for crankcase breather, intake manifold flap motor, air mass meter

G70	Air mass meter
G336	Intake manifold flap potentiometer
J623	Engine control unit
N79	Heater element for crankcase breather
SB24	Fuse 24 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
V157	Intake manifold flap motor
673	Earth point 3, on front of left longitudinal member
D123	Connection 21, in engine compartment wiring harness
*	⇒ applicable Current Flow Diagram: radiator fan control
***	for models with heater element only

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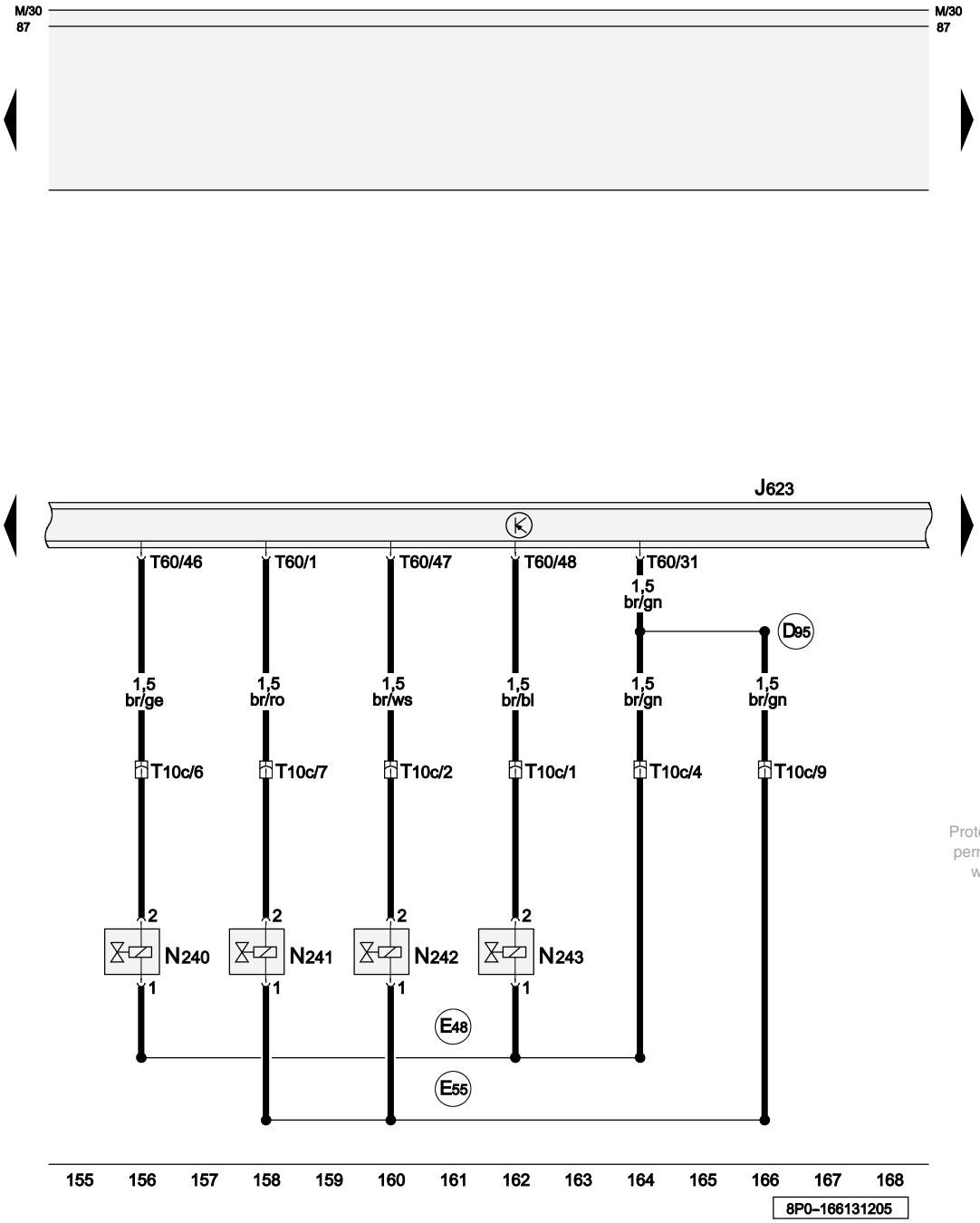


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Exhaust gas pressure sensor 1, temperature sensor

G62	Coolant temperature sender
G81	Fuel temperature sender
G83	Radiator outlet coolant temperature sender
G235	Exhaust gas temperature sender 1
G450	Exhaust gas pressure sensor 1
G506	Temperature sender before particulate filter
G527	Temperature sender after particulate filter
J623	Engine control unit
T2bi	2-pin connector, orange
T14a	14-pin connector, black, near relay carrier electronics box
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

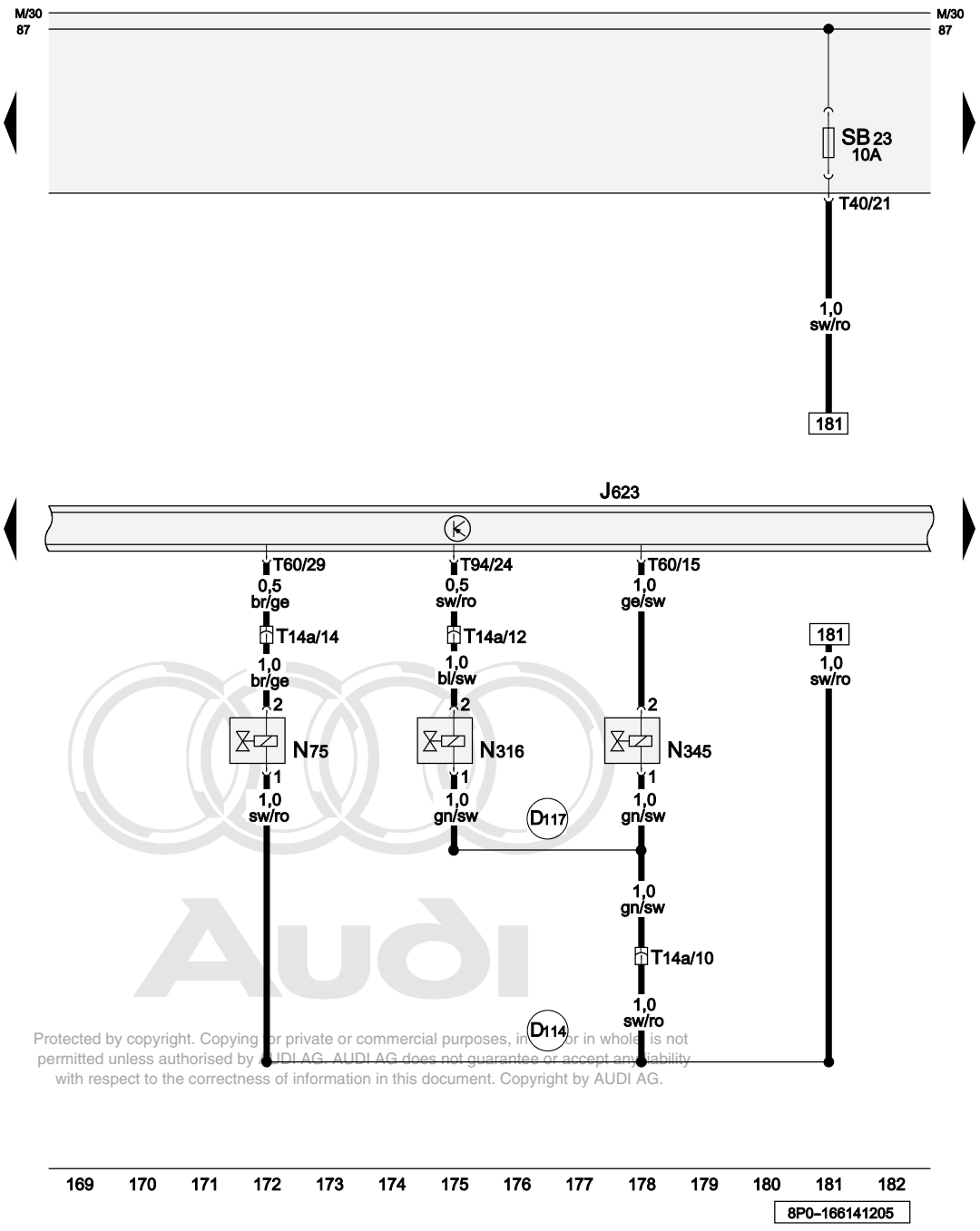


Unit injector valves

J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T10c	10-pin connector, black, in engine compartment
T60	60-pin connector, black (connector A)
D95	Connection (injectors), in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness
E55	Connection 2 (injectors), in injection system wiring harness

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ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

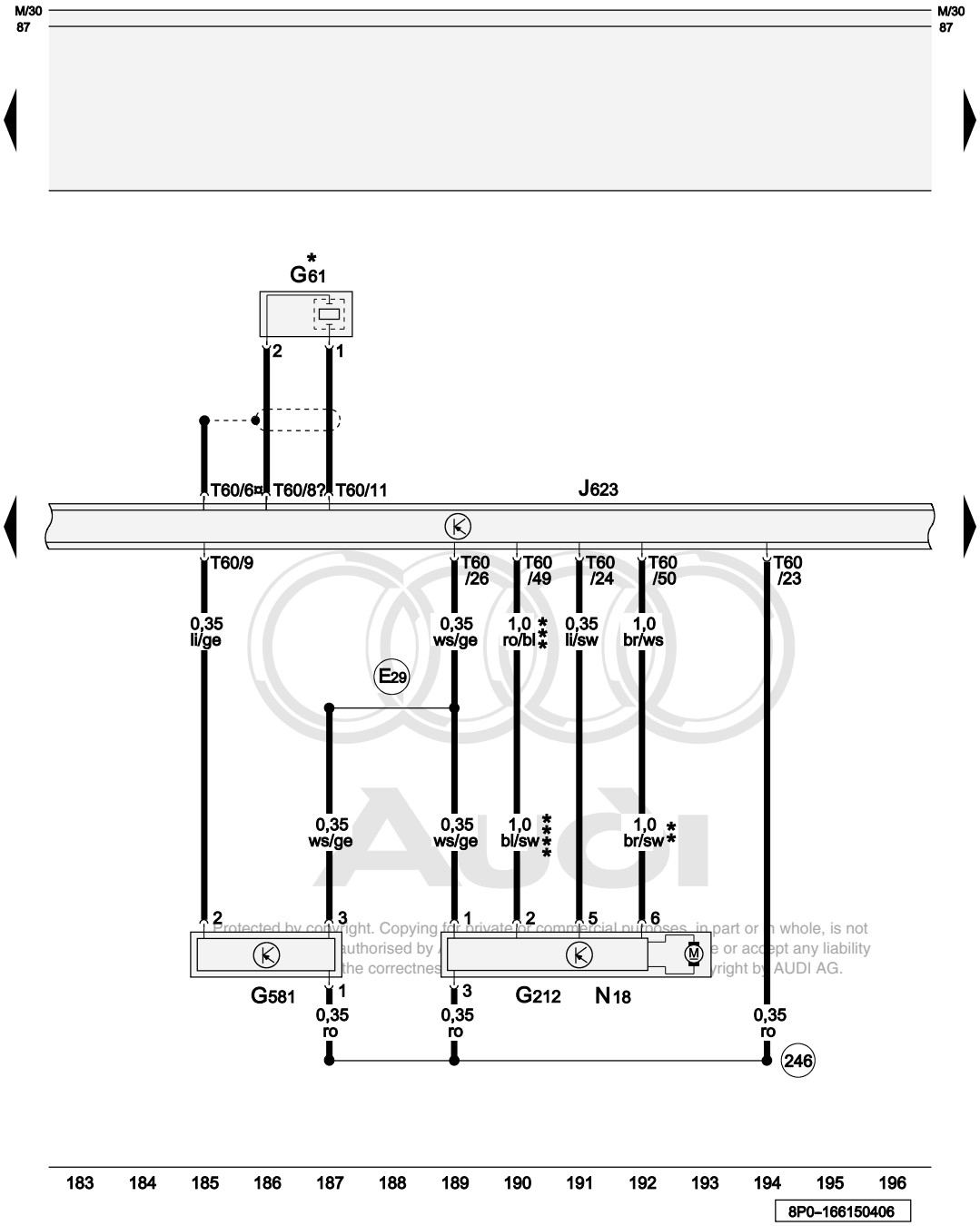


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Solenoid valves

J623	Engine control unit
N75	Charge pressure control solenoid valve
N316	Intake manifold flap valve
N345	Exhaust gas recirculation cooler change-over valve
SB23	Fuse 23 on fuse holder B
T14a	14-pin connector, black, near relay carrier electronics box
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
D114	Connection 12, in engine compartment wiring harness
D117	Connection 15, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

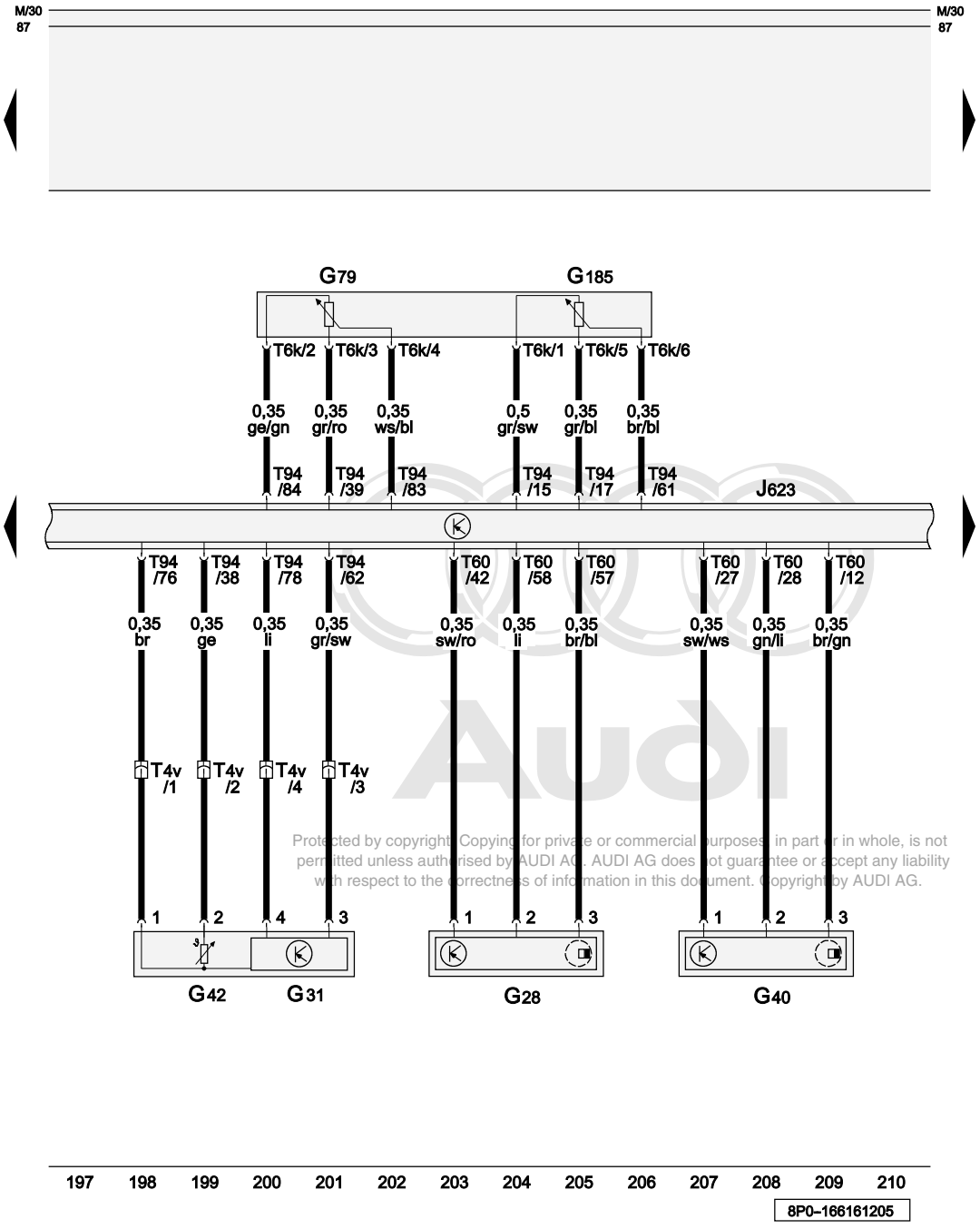


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Exhaust gas recirculation potentiometer, position sender for charge pressure positioner

G61	Knock sensor 1
G212	Exhaust gas recirculation potentiometer
G581	Position sender for charge pressure positioner
J623	Engine control unit
N18	Exhaust gas recirculation valve
T60	60-pin connector, black (connector A)
246	Earth connection (control unit), in engine wiring harness
E29	Connection, in engine wiring harness
*	option
**	for models with automatic gearbox only
***	No longer fitted, phased-in modification
****	phased-in modification

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

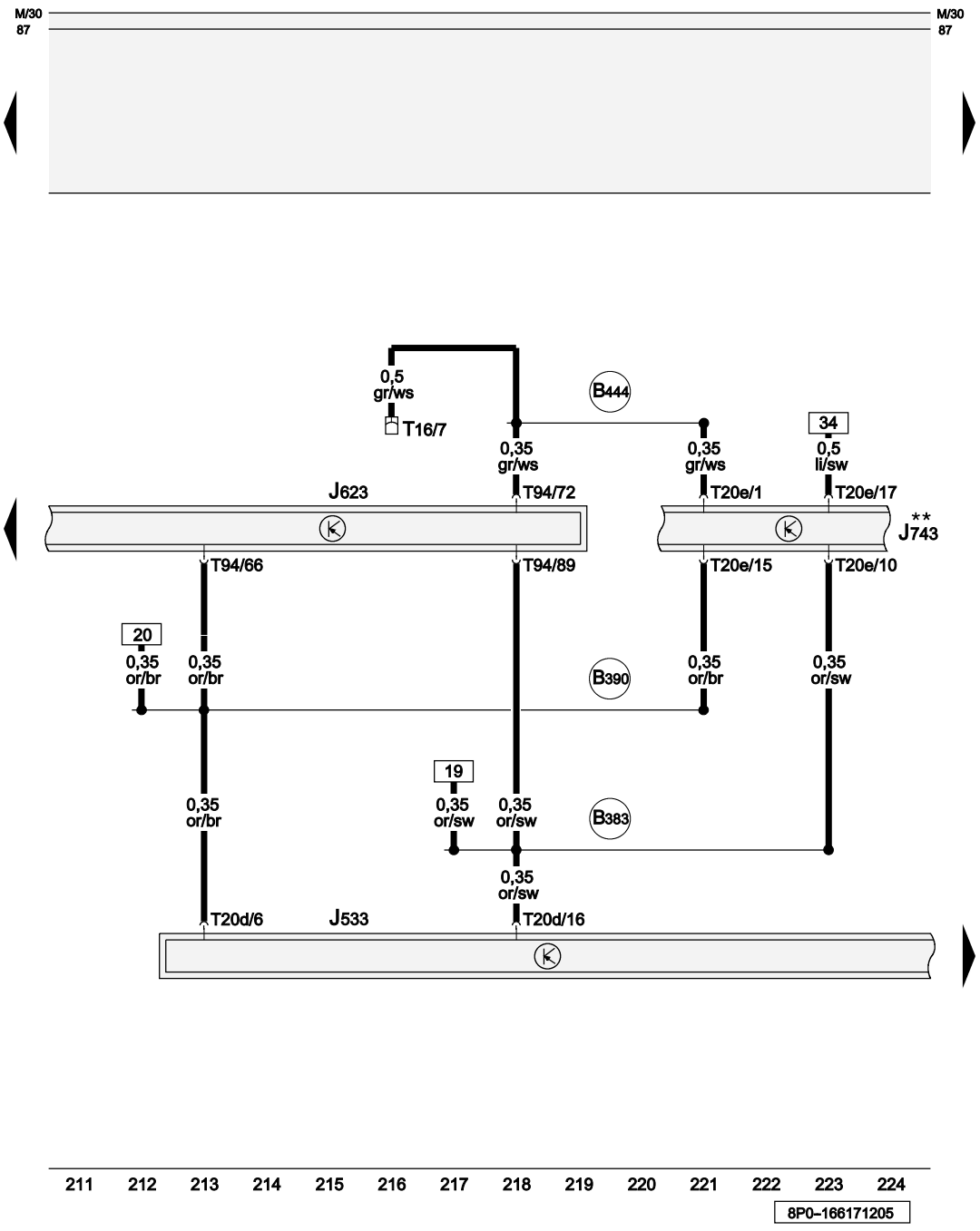


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Engine speed sender, charge air pressure sender, hall sender

G28	Engine speed sender
G31	Charge air pressure sender
G40	Hall sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T4v	4-pin connector, black, near longitudinal member, front left
T6k	6-pin connector, black, near accelerator position sender
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

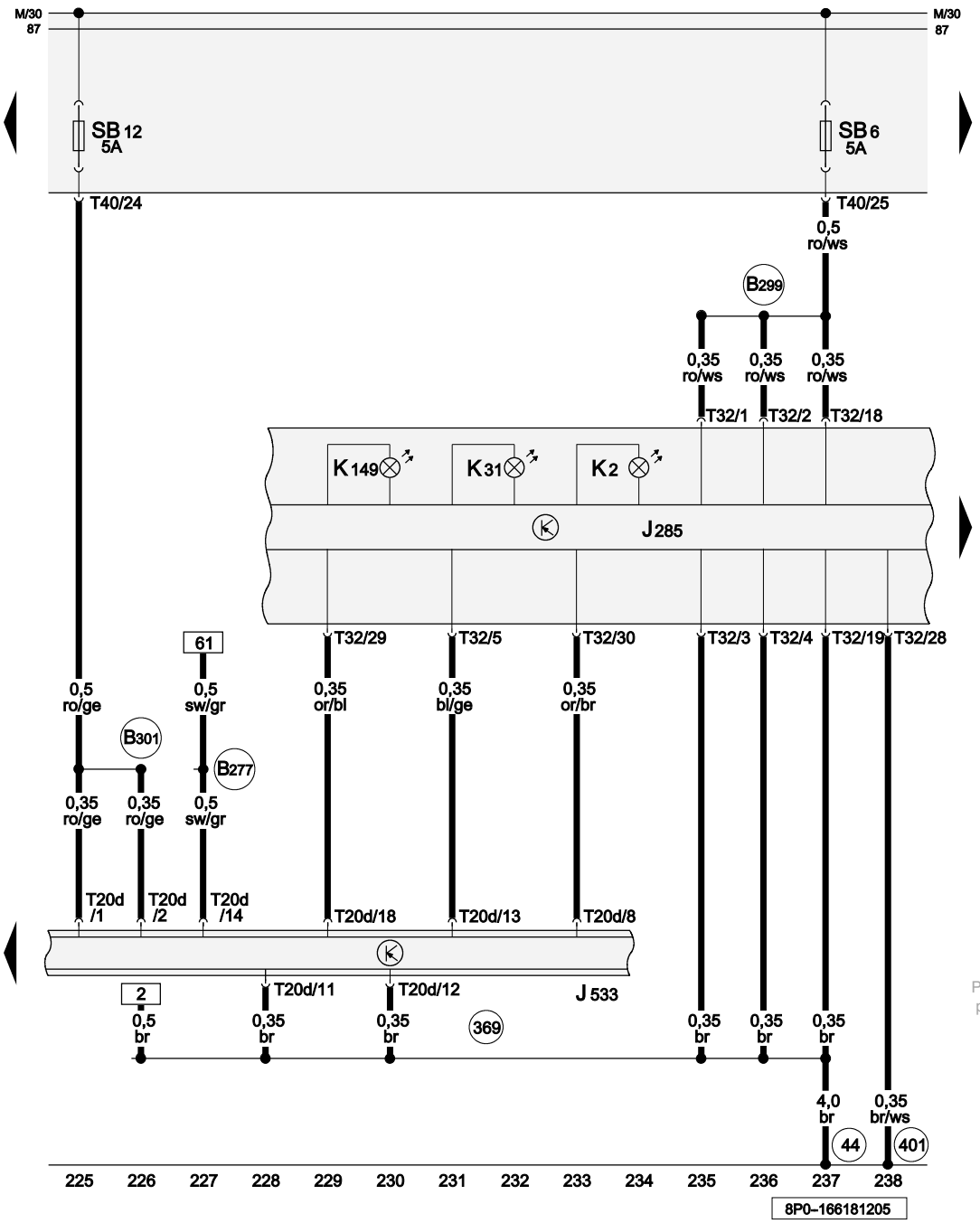


Drive train CAN bus, diagnosis

J533	Data bus diagnostic interface
J623	Engine control unit
J743	Mechatronics for direct shift gearbox
T16	16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
T20d	20-pin connector, yellow (connector A)
T20e	20-pin connector, black (connector A)
T94	94-pin connector, black (connector B)
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
**	for models with direct shift gearbox (02E) only

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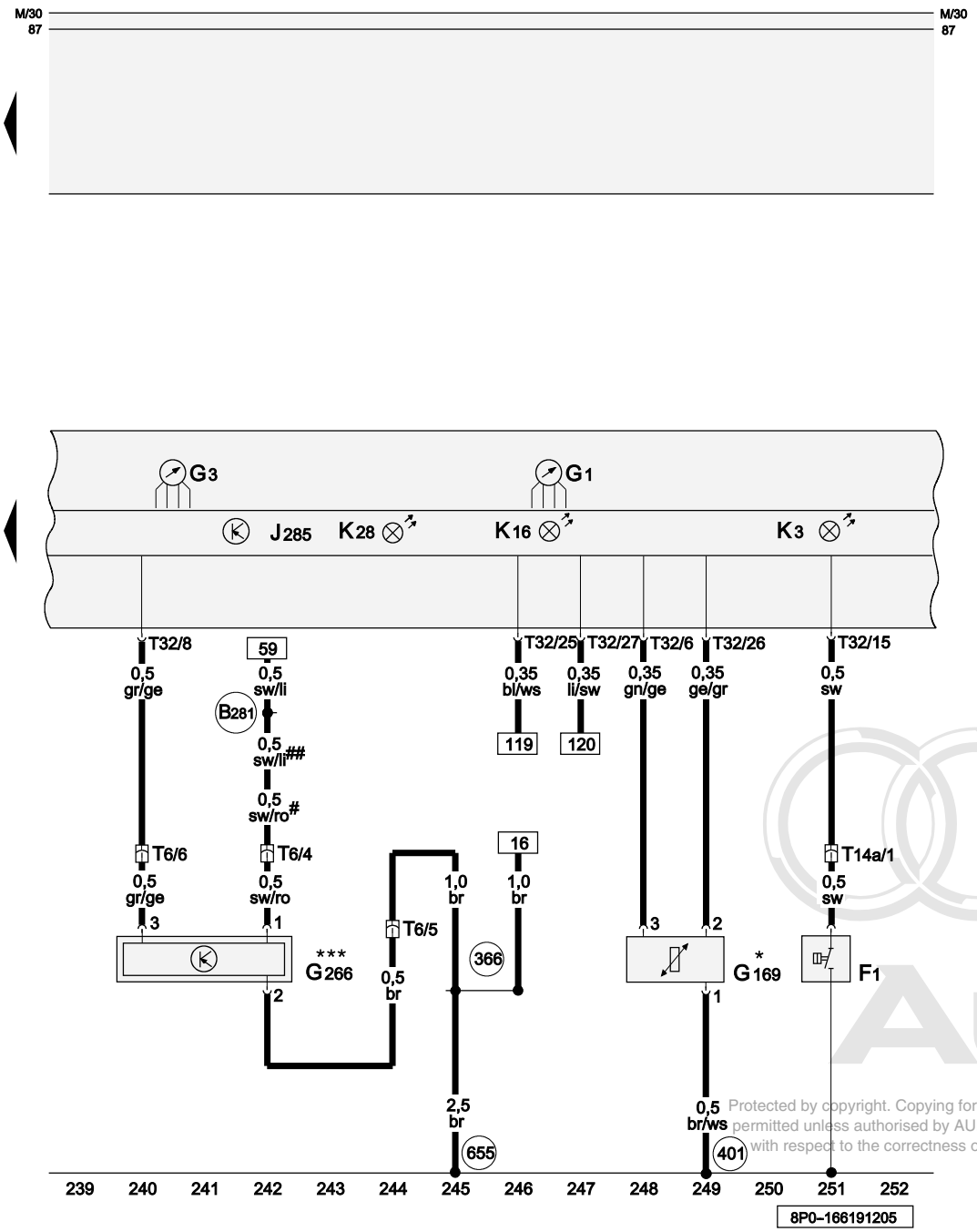


Data bus diagnostic interface

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB6	Fuse 6 on fuse holder B
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector, yellow (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
44	Earth point, lower part of left A-pillar
369	Earth connection 4, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
B277	Positive connection 1 (15a), in main wiring harness
B299	Positive connection 3 (30), in main wiring harness
B301	Positive connection 5 (30), in main wiring harness

ws = white
sw = black
ro = red
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gn = green
bl = blue
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li = purple
ge = yellow
or = orange
rs = pink

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Oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G1	Fuel gauge
G3	Coolant temperature gauge
G169	Fuel gauge sender 2
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K16	Reserve fuel warning lamp
K28	Coolant temperature and coolant shortage warning lamp
T6	6-pin connector, black, near longitudinal member, front left
T14a	14-pin connector, black, near relay carrier electronics box
T32	32-pin connector, blue (connector A)
366	Earth connection 1, in main wiring harness
401	Earth connection (sender earth), in interior wiring harness
655	Earth point, on left headlight
B281	Positive connection 5 (15a), in main wiring harness
*	for models with four-wheel drive only
***	for models with extended servicing intervals (ESI) only
#	No longer fitted, phased-in modification
##	phased-in modification

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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1 Earth points

1.1 Overview of earth points in front part of vehicle

1 - Earth point, on right in plenum chamber -609-
- ❑ Fitting location ⇒ page 6
- ❑ is dropped, from model year 2005

2 - Earth point, on left in plenum chamber -607-
- ❑ Fitting location ⇒ page 6

3 - Earth point, on left in engine compartment -12-
- ❑ Fitting location ⇒ page ⇒ page 6

4 - Earth point, on left headlight -655-
- ❑ Fitting location ⇒ page 7
- ❑ is dropped, from model year 2005

4 - Earth point 4, on front of left longitudinal member -674-
- ❑ Fitting location ⇒ page 8
- ❑ applicable from model year 2005
- ❑ is dropped from model year 2009

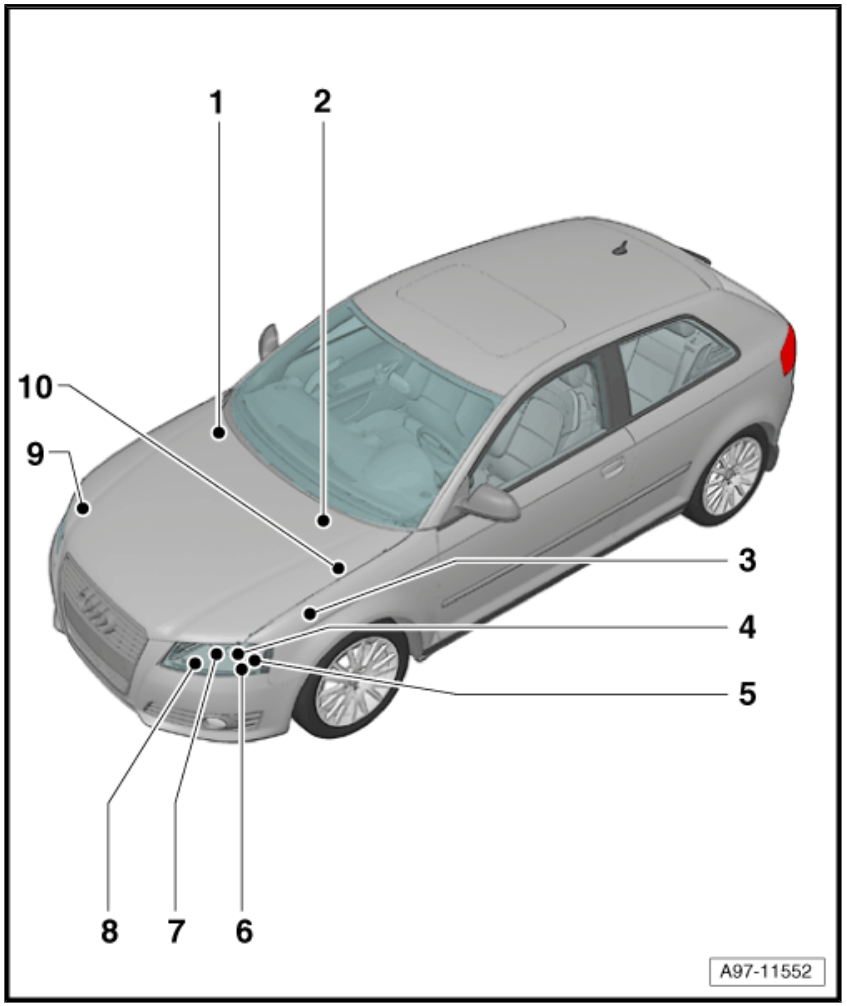
5 - Earth point 4, on front of left longitudinal member -674-
- ❑ Fitting location ⇒ page 8
- ❑ is dropped, from model year 2005

5 - Earth point, on left headlight -655-
- ❑ Fitting location ⇒ page 8
- ❑ applicable from model year 2005

6 - Earth point 2, on front of left longitudinal member -672-
- ❑ is dropped from model year 2009

7 - Earth point 1, on front of left longitudinal member -671-
- ❑ Fitting location ⇒ page 7

8 - Earth point 3, on front of left longitudinal member -673-
- ❑ Fitting location ⇒ page 7
- ❑ is dropped from model year 2009



Audi
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9 - Earth point, on right headlight -656-

- Fitting location ⇒ page 7
- is dropped from model year 2009

10 - Earth point, on left suspension strut -615-

- Fitting location ⇒ page 8
- Only right-hand drive models

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1.2 Overview of earth points in interior of vehicle

1 - Earth point, rear left side panel -662-

- ❑ Fitting location ⇒ page 10

2 - Earth point, lower part of left A-pillar -44-

- ❑ Fitting location ⇒ page 9

3 - Earth point, left A-pillar -639-

- ❑ Fitting location ⇒ page 9

4 - Earth point, next to steering column -42-

5 - Earth point (audio), under centre console, front -610-

- ❑ Fitting location ⇒ page 9

6 - Earth point, right A-pillar -638-

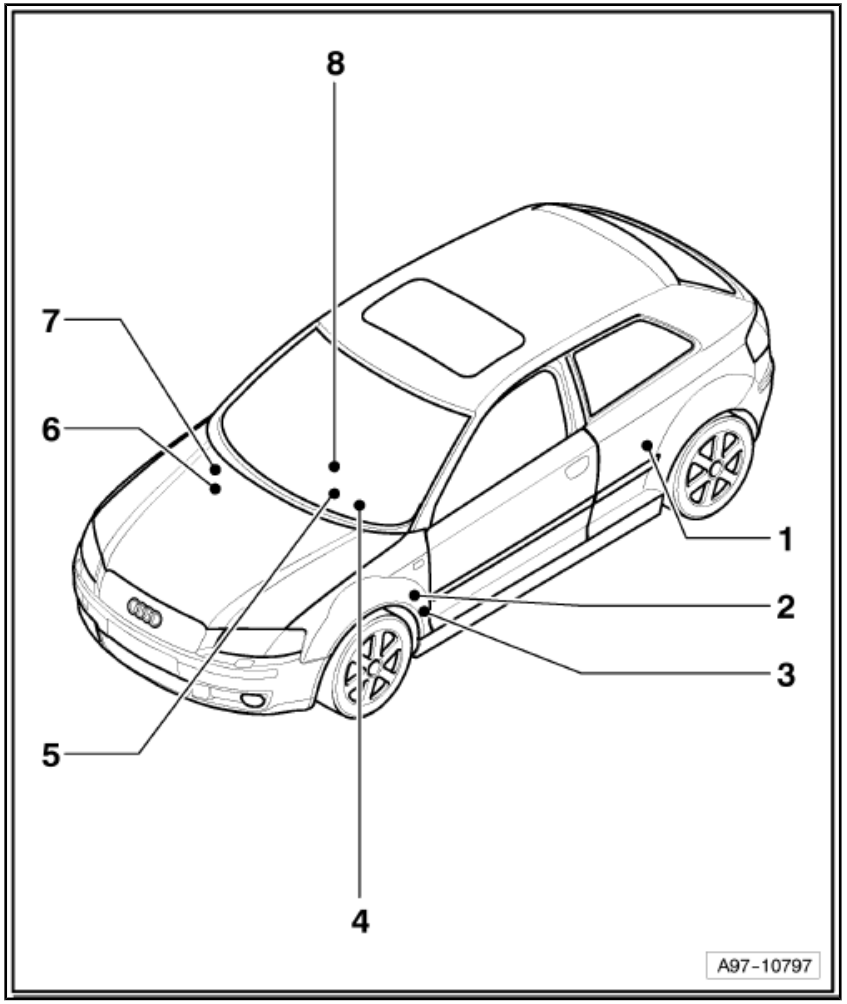
- ❑ Fitting location ⇒ page 9

7 - Earth point, lower part of right A-pillar -43-

- ❑ Fitting location ⇒ page ⇒ page 9

8 - Earth point, airbag control unit -637-

- ❑ Fitting location ⇒ page 9
- ❑ is dropped, from model year 2005



1.3 Overview of earth points in rear part of vehicle (3-door models)

1 - Earth point on right in luggage compartment -51-

- ❑ Fitting location ⇒ page ⇒ page 10
- ❑ for 5-door models ⇒ page ⇒ Item 1 (page 5) Item ⇒ Item 1 (page 5)

2 - Earth point, right C-pillar -62-

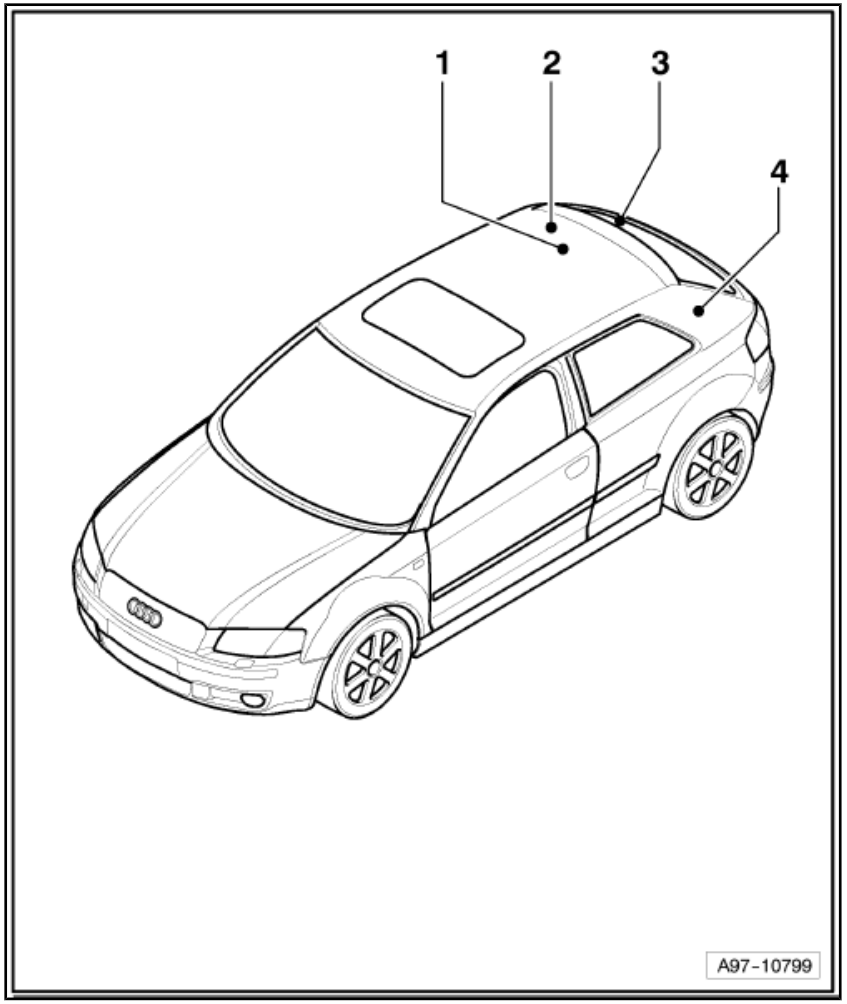
- ❑ Fitting location ⇒ page 11
- ❑ for 5-door models ⇒ page ⇒ Item 2 (page 5) Item ⇒ Item 2 (page 5)

3 - Earth point, on right in rear lid -53-

- ❑ Fitting location ⇒ page 10
- ❑ for 5-door models ⇒ page ⇒ Item 3 (page 5) Item ⇒ Item 3 (page 5)

4 - Earth point, left C-pillar -61-

- ❑ Fitting location ⇒ page 11
- ❑ for 5-door models ⇒ page ⇒ Item 4 (page 5) Item ⇒ Item 4 (page 5)



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1.4 Overview of earth points in rear part of vehicle (5-door models)

1 - Earth point on right in luggage compartment -51-

- ❑ Fitting location ⇒ page 10

2 - Earth point, right C-pillar -62-

- ❑ Fitting location ⇒ page 11

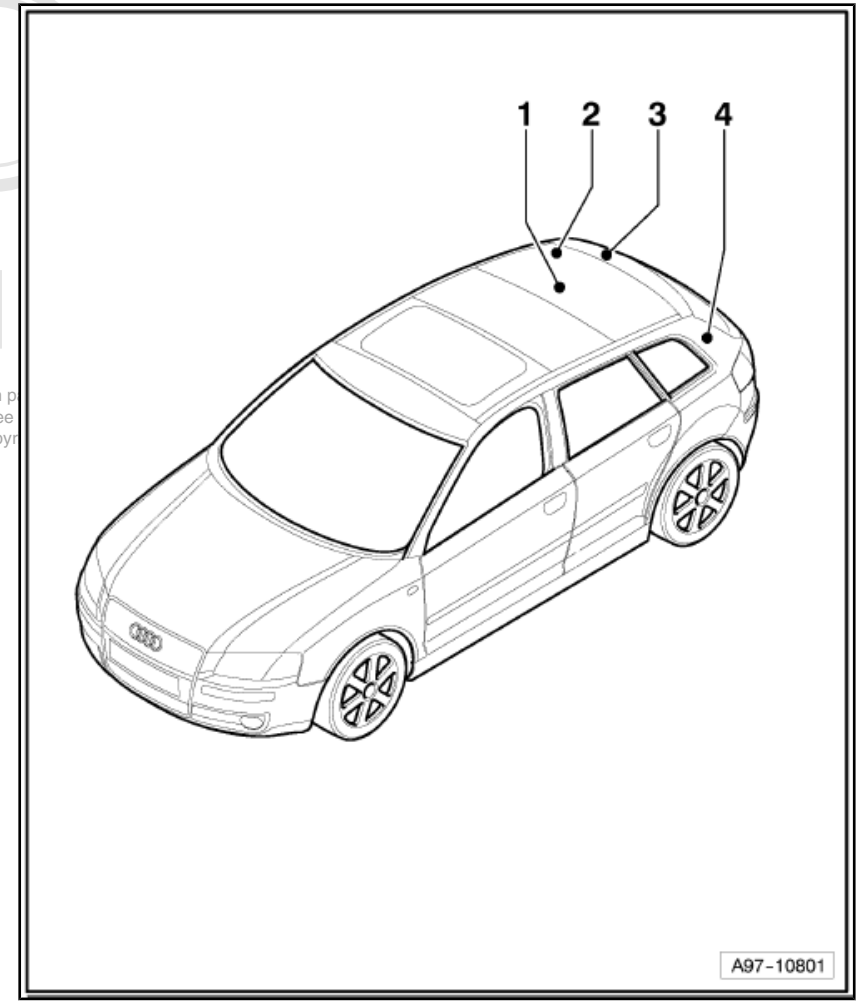
3 - Earth point, on right in rear lid -53-

- ❑ Fitting location ⇒ page 10

4 - Earth point, left C-pillar -61-

- ❑ Fitting location ⇒ page 11

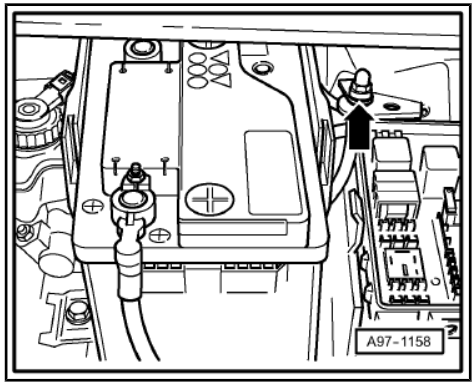
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1.5 Earth point, in engine compartment

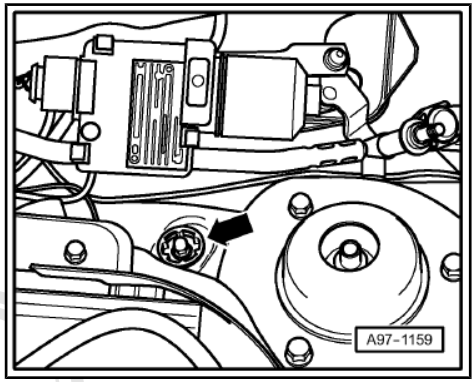
12 - Earth point, on left in engine compartment, near the battery -arrow-

Torque: 15 Nm



607 - Earth point, on left in plenum chamber, windscreen wiper motor -arrow-

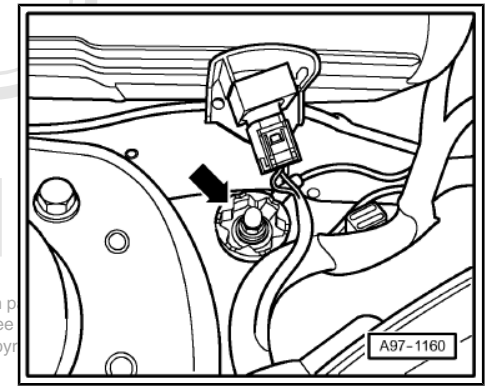
Torque: 10 Nm



609 - Earth point, on right in plenum chamber, near air quality sensor -arrow-

Torque: 10 Nm

is dropped, from model year 2005

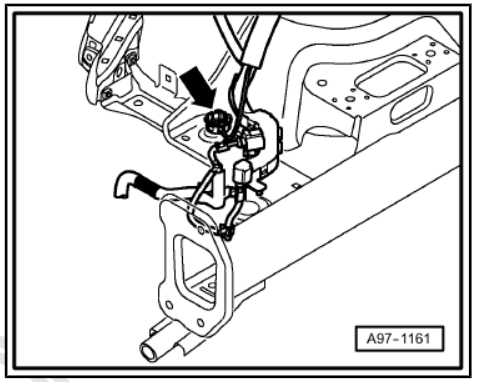


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656 - Earth point, on right headlight -arrow-

Torque: 10 Nm

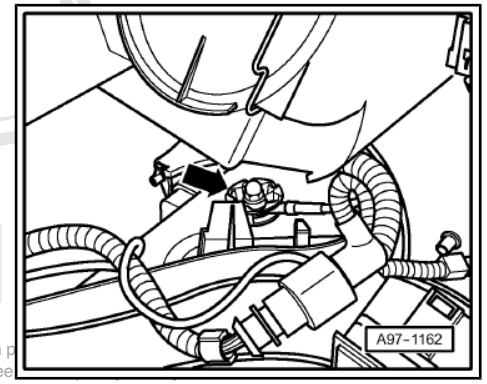
is dropped from model year 2009



673 - Earth point 3 at front of left longitudinal member -arrow-

Torque: 10 Nm

is dropped from model year 2009



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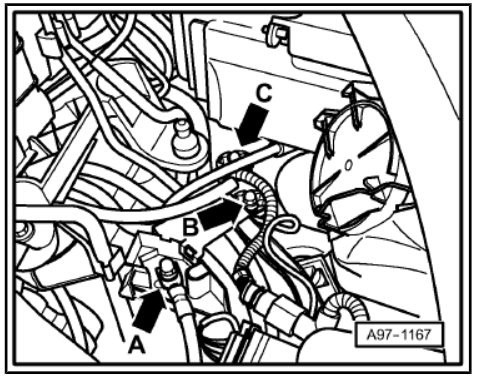
671 - Earth point 1, on front left longitudinal member -arrow A-

Torque: 15 Nm

655 - Earth point, on left headlight, on longitudinal member -arrow B-

Torque: 10 Nm

is dropped, from model year 2005



674 - Earth point 4, on front left longitudinal member -arrow B-

Torque: 10 Nm

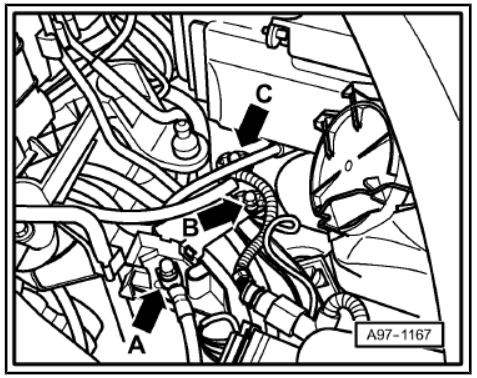
applicable from model year 2005

is dropped from model year 2009

655 - Earth point, on left headlight, on longitudinal member -arrow C-

Torque: 10 Nm

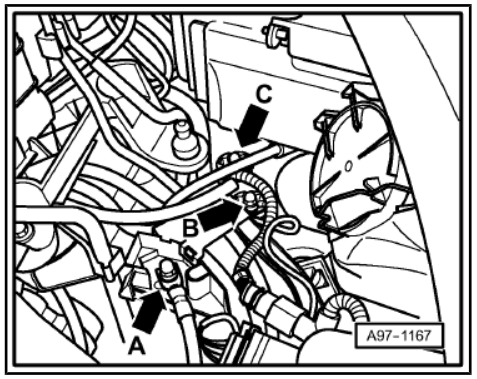
applicable from model year 2005



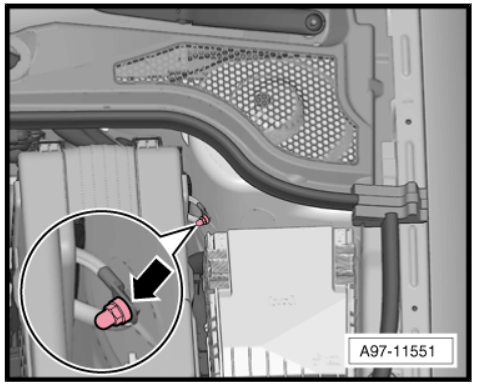
674 - Earth point -4-, on front left longitudinal member -arrow C-

Torque: 10 Nm

is dropped, from model year 2005



615 - Earth point, on left suspension strut -arrow-



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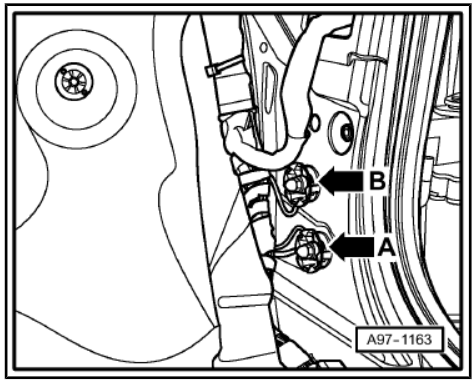
1.6 Earth points, in interior

43 - Earth point, lower part of right A-pillar -arrow A-

Torque: 10 Nm

638 - Earth point, right A-pillar -arrow B-

Torque: 10 Nm

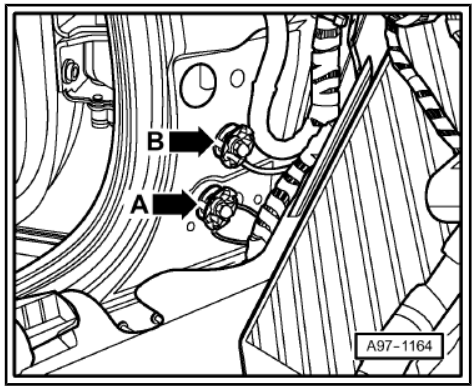


44 - Earth point, lower part of left A-pillar -arrow A-

Torque: 10 Nm

639 - Earth point, left A-pillar -arrow B-

Torque: 10 Nm



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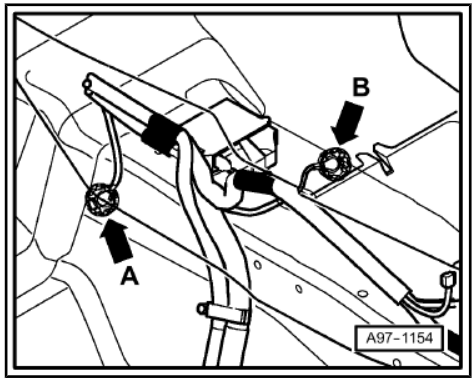
610 - Earth point (audio), under centre console, front -arrow A-

Torque: 10 Nm

637 - Earth point, airbag control unit -arrow B-

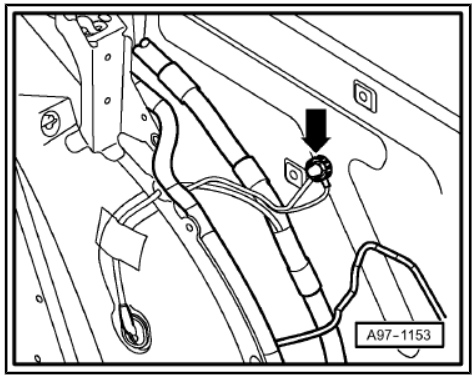
Torque: 10 Nm

is dropped, from model year 2005



662 - Earth point, rear left side panel -arrow-

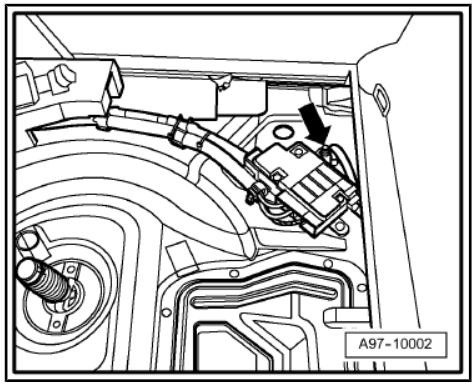
Torque: 10 Nm



1.7 Earth point, in luggage compartment

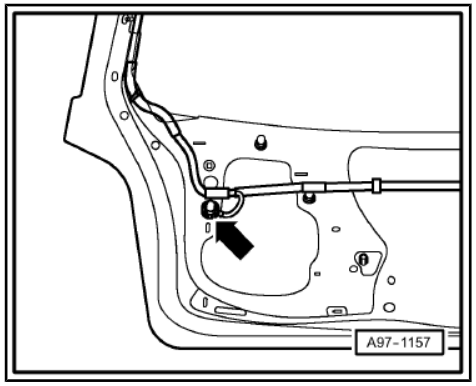
51 - Earth point, on right in luggage compartment -arrow-

Torque: 20 Nm



53 - Earth point, on right in rear lid -arrow-

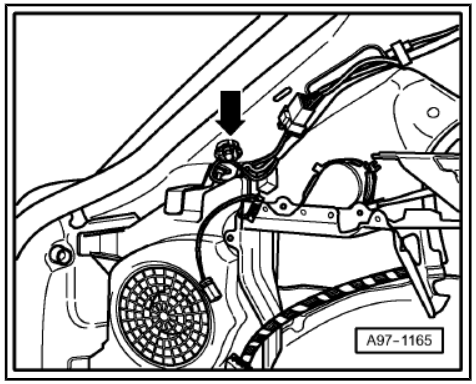
Torque: 10 Nm



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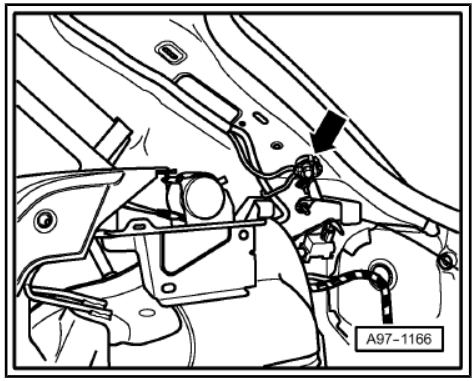
61 - Earth point, left C-pillar -arrow-

Torque: 10 Nm



62 - Earth point, right C-pillar -arrow-

Torque: 10 Nm



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1 Fuses

1.1 Overview of fuses

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1 - fuse holder A -SA-

- ❑ Location on main fuse holder, electronics box low, from model year 2006 ⇒ page 3
- ❑ Position of fuses on main fuse holder, electronics box low, from model year 2006 ⇒ page 4
- ❑ Position of fuses on main fuse holder, electronics box low, from model year 2007 chapter ⇒ page 4
- ❑ Location on main fuse holder, electronics box low, from November 2008 ⇒ page 6
- ❑ Position of fuses on main fuse holder, electronics box low, from November 2008 ⇒ page 7
- ❑ Location main fuse holder, electronics box high ⇒ page 8
- ❑ Position of fuses on main fuse holder, electronics box high, from model year 2004 ⇒ page 9
- ❑ Position of fuses on main fuse holder, electronics box high, from model year 2005 ⇒ page 9
- ❑ Position of fuses on main fuse holder, electronics box high, from model year 2006 ⇒ page 10

2 - Fuse holder B -SB-

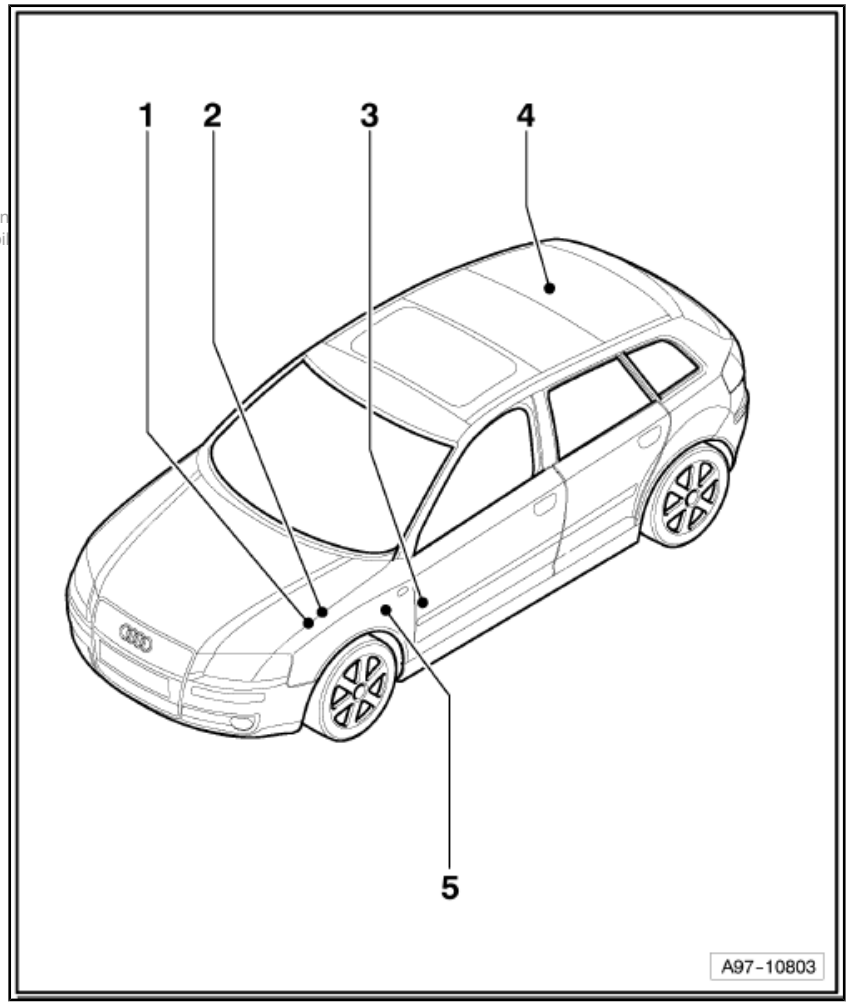
- ❑ Location electronics box low ⇒ page 12
- ❑ Position of fuses electronics box low, from model year 2006 ⇒ page 13
- ❑ Position of fuses electronics box low, from model year 2007 ⇒ page 15
- ❑ Location electronics box high ⇒ page 21
- ❑ Position of fuses electronics box high, from model year 2004 ⇒ page 22
- ❑ Position of fuses electronics box high, from model year 2006 ⇒ page 26
- ❑ Position of fuses electronics box high, from model year 2007 ⇒ page 28

3 - Fuse holder C -SC-

- ❑ Location ⇒ page 34
- ❑ Position of fuses, from model year 2004 ⇒ page 35
- ❑ Position of fuses, from model year 2006 ⇒ page 37
- ❑ Position of fuses, from model year 2007 ⇒ page 41

4 - Fuse holder D -SD-

- ❑ Location main fuse box ⇒ page 47



- ❑ Position of fuses on main fuse box, from model year 2004 ⇒ page 48
- ❑ Position of fuses on main fuse box, from model year 2006 ⇒ page 48

5 -
Fuses on left under dash panel

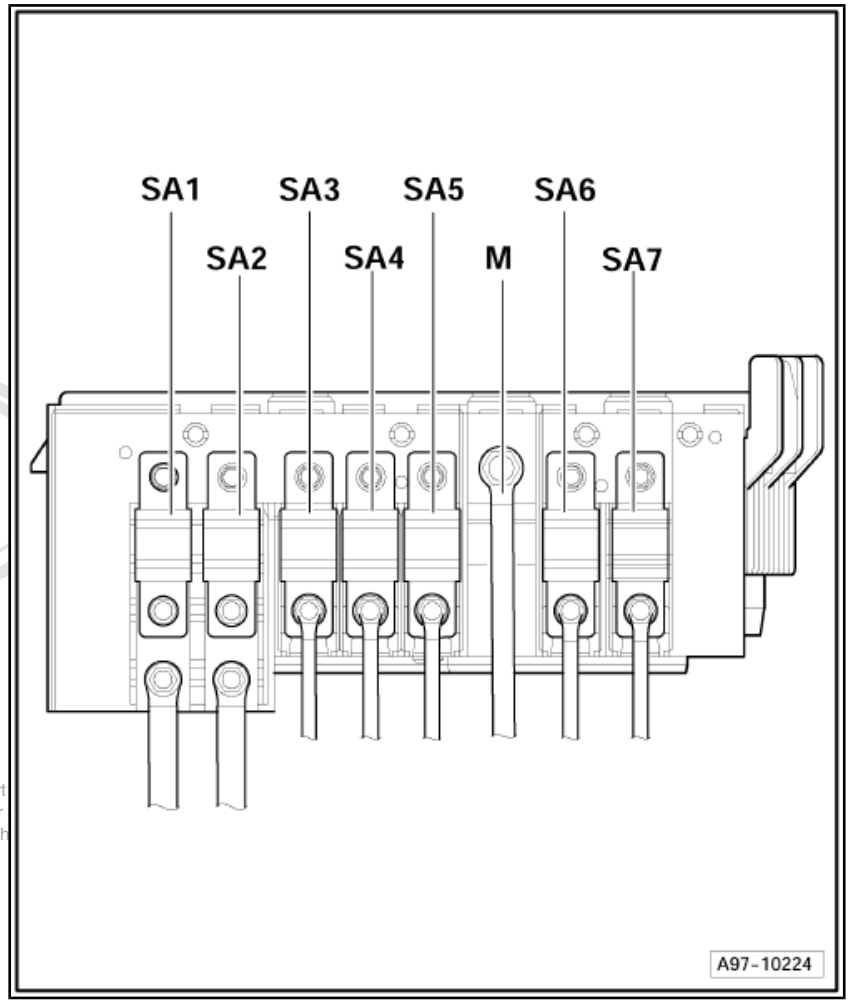
- ❑ Components: -S37- , -S280- , -S131-
- ❑ Position of fuses, from model year 2004 ⇒ page 49

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1.2 Main fuse holder: Position fuse holder A -SA- on electronics box low, from model year 2006

1.2.1 Main supply connection:

M - Screw connection M (terminal 30)



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1.3 Position of fuses electronics box low, from model year 2006

Designation in Wiring Diagram	Nominal value		Function/component	Terminal
Fuse 1 in fuse holder A -SA1-	150 A	-	Alternator -C- (70 A) Alternator -C- (90 A) Alternator -C- (110 A) Alternator -C- (120 A)	30
	200 A	-	Alternator -C- (140 A)	30
Fuse 2 on fuse holder on battery -SA2-	80 A	-	Power steering control unit -J500-	30
Fuse 3 on fuse holder on battery -SA3-	50 A	-	Radiator fan control unit -J293- Radiator fan thermal switch -F18- radiator fan -V7-	30
Fuse 4 on fuse holder on battery -SA4-	80 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC19- , -SC22- up to -SC27- , -SC28- , -SC38- is dropped from November 2005	30
Fuse 5 on fuse holder on battery -SA5-	80 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC19- , -SC22- up to -SC27- , -SC28- , -SC38- applicable from November 2005	30
Fuse 5 on fuse holder on battery -SA5-	100 A	-	Auxiliary air heater control unit -J604- is dropped from November 2005	30
Fuse 6 on fuse holder on battery -SA6-	100 A	-	Auxiliary air heater control unit -J604- applicable from November 2005	30
Fuse 7 on fuse holder on battery -SA7-	50 A	-	option doctor	30
	80 A	-	option police	30

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1.4 Position of fuses electronics box low, from model year 2007

Designation in Wiring Diagram	Nominal value		Function/component	Terminal
Fuse 1 in fuse holder A -SA1-	150 A	-	Alternator -C- (70 A) Alternator -C- (90 A) Alternator -C- (110 A) Alternator -C- (120 A)	30
	200 A	-	Alternator -C- (140 A)	30
Fuse 2 on fuse holder on battery -SA2-	80 A	-	Power steering control unit -J500-	30
Fuse 3 on fuse holder on battery -SA3-	50 A	-	Radiator fan control unit -J293- Radiator fan thermal switch -F18- radiator fan -V7-	30

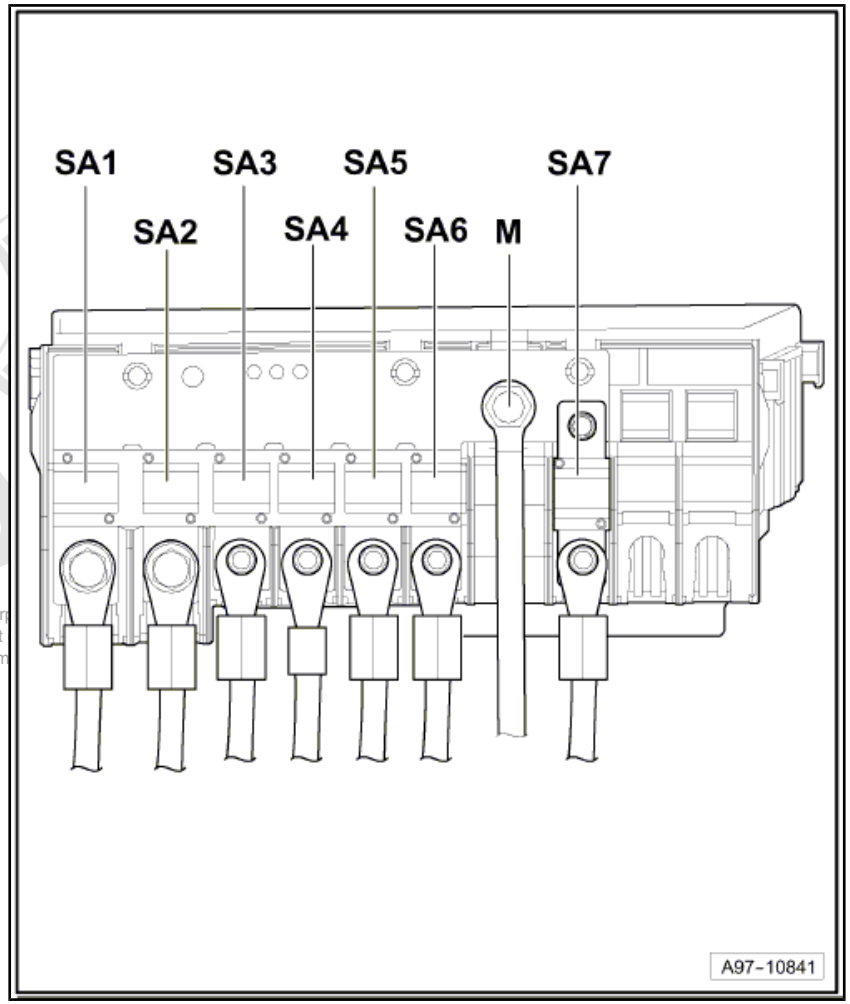
Fuse 4 on fuse holder on battery -SA4-	40 A	-	Low heat output relay -J359- applicable from November 2006	30
Fuse 5 on fuse holder on battery -SA5-	80 A	-	B272 Positive connection (30), in main wiring harness Supply for the fuses: -SC12- up to -SC17- , -SC22- up to -SC27- , -SC28- , -SC38- , -SC43-	30
Fuse 6 on fuse holder on battery -SA6-	100 A	-	Auxiliary air heater control unit -J604- is dropped from November 2006	30
Fuse 6 on fuse holder on battery -SA6-	80 A	-	High heat output relay -J360- applicable from November 2006	30
Fuse 7 on fuse holder on battery -SA7-	50 A	-	option doctor	30
	80 A	-	option police	30
	30 A	-	Electronically controlled damping control unit -J250- applicable from May 2008	30

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1.5 Main fuse holder: Position fuse holder A -SA- on electronics box low, from November 2008

1.5.1 Main supply connection:

M - Screw connection M (terminal 30)



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1.6 Position of fuses in electronics box low, from November 2008

Designation in Wiring Diagram	Nominal value		Function/component	Terminal
Fuse 1 in fuse holder A -SA1-	150 A	-	Alternator -C- (70 A) Alternator -C- (90 A) Alternator -C- (110 A) Alternator -C- (120 A)	30
	200 A	-	Alternator -C- (140 A)	30
Fuse 2 on fuse holder on battery -SA2-	80 A	-	Power steering control unit -J500-	30
Fuse 3 on fuse holder on battery -SA3-	50 A	-	Radiator fan control unit -J293- Radiator fan thermal switch -F18- radiator fan -V7-	30
Fuse 4 on fuse holder on battery -SA4-	80 A	-	High heat output relay -J360-	30
Fuse 5 on fuse holder on battery -SA5-	80 A	-	B272 Positive connection (30), in main wiring harness Supply for the fuses: -SC12- up to -SC17- , -SC22- up to -SC27- , -SC28- , -SC38- , -SC43-	30
Fuse 6 on fuse holder on battery -SA6-	40 A	-	Low heat output relay -J359-	30
Fuse 7 on fuse holder on battery -SA7-	50 A	-	Option doctor is dropped from May 2009	30
	50 A	-	Option doctor or police applicable from May 2009	30
	80 A	-	Option police is dropped from May 2009	30
	30 A	-	Electronically controlled damping control unit -J250-	30

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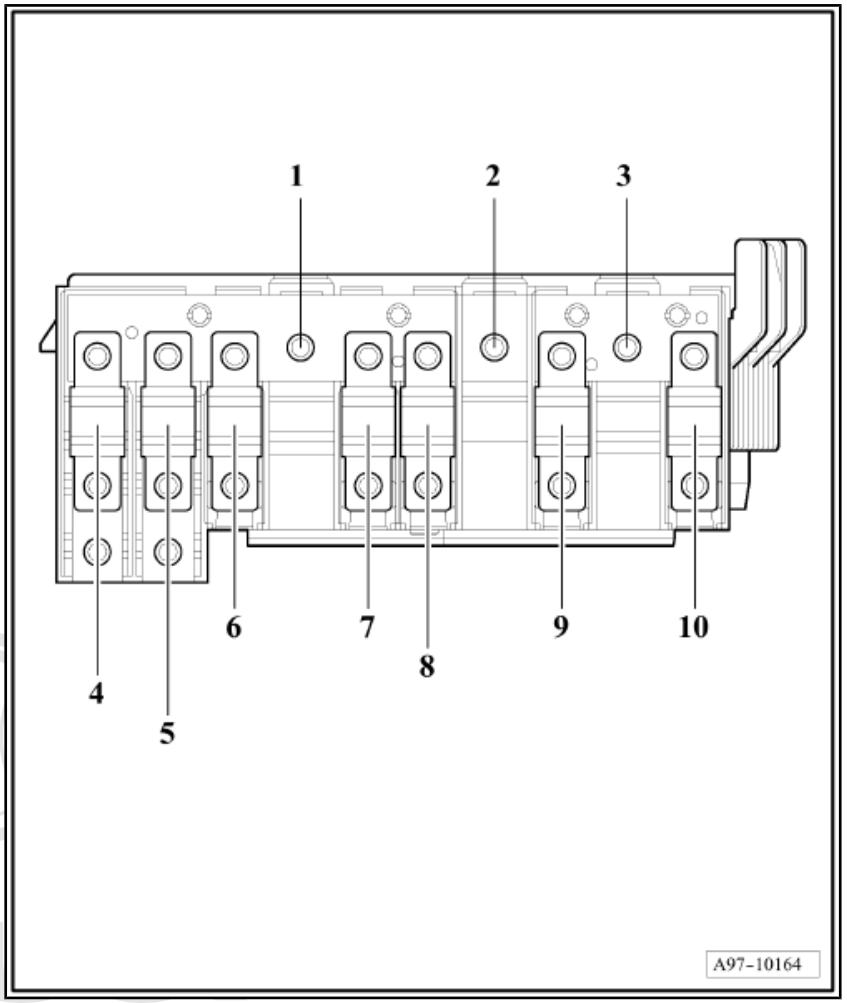
1.7 Main fuse holder: Position fuse holder A -SA- on electronics box high

1.7.1 Main supply connection:

1 - Screw connection A (terminal 30)

2 - Screw connection M (terminal 30)

3 - Screw connection L (terminal 30)



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1.8 Position of fuses electronics box high, from model year 2004

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
4	-	Fuse 1 in fuse holder A -SA1-	150 A	-	Alternator -C- (70 A) Alternator -C- (90 A) Alternator -C- (110 A) Alternator -C- (120 A)	30
4	-	Fuse 1 in fuse holder A -SA1-	200 A	-	Alternator -C- (140 A)	30
5	-	Fuse 2 on fuse holder on battery -SA2-	80 A	-	Power steering control unit -J500-	30
6	-	Fuse 3 on fuse holder on battery -SA3-	80 A	-	Radiator fan control unit -J293-	30
7	-	Fuse 4 on fuse holder on battery -SA4-	80 A	-	Window regulator single fuse -S37- Supply for the fuses: -SC22- up to -SC27- for models with battery in luggage compartment only	30
8	-	Fuse 5 on fuse holder on battery -SA5-	100 A	-	Auxiliary air heater control unit -J604-	30
9	-	Fuse 6 on fuse holder on battery -SA6-	50 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC44- , -SC45- for models with battery in luggage compartment only	30
			80 A	-	Window regulator single fuse -S37- Supply for the fuses: -SC12- up to -SC17- , -SC22- up to -SC27- for models with battery in engine compartment only	30

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1.9 Position of fuses electronics box high, from model year 2005

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
4	-	Fuse 1 in fuse holder A -SA1-	150 A	-	Alternator -C- (70 A) Alternator -C- (90 A) Alternator -C- (110 A) Alternator -C- (120 A)	30
4	-	Fuse 1 in fuse holder A -SA1-	200 A	-	Alternator -C- (140 A)	30
5	-	Fuse 2 on fuse holder on battery -SA2-	80 A	-	Power steering control unit -J500-	30
6	-	Fuse 3 on fuse holder on battery -SA3-	80 A	-	Radiator fan control unit -J293-	30
7	-	Fuse 4 on fuse holder on battery -SA4-	80 A	-	Window regulator single fuse -S37- Window regulator single fuse 2 -S280- Supply for the fuses: -SC22- up to -SC27- for models with battery in luggage compartment only	30
8	-	Fuse 5 on fuse holder on battery -SA5-	100 A	-	Auxiliary air heater control unit -J604-	30

9	-	Fuse 6 on fuse holder on battery -SA6-	50 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC19- , -SC44- , -SC45- for models with battery in luggage compartment only	30
			80 A	-	Window regulator single fuse -S37- Window regulator single fuse 2 -S280- Supply for the fuses: -SC12- up to -SC17- , -SC19- , -SC22- up to -SC27- for models with battery in engine compartment only	30

1.10 Position of fuses electronics box high, engine codes AXX, BWA, BPY, BHZ, BZC, CDLA, CDLC, from model year 2006

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
4	-	Fuse 1 in fuse holder A -SA1-	150 A	-	Alternator -C- (70 A) Alternator -C- (90 A) Alternator -C- (110 A) Alternator -C- (120 A)	30
			200 A	-	Alternator -C- (140 A)	
5	-	Fuse 2 on fuse holder on battery -SA2-	80 A	-	Power steering control unit -J500-	30
6	-	Fuse 3 on fuse holder on battery -SA3-	50 A	-	Radiator fan control unit -J293-	30
7	-	Fuse 4 on fuse holder on battery -SA4-	80 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC19- , -SC22- up to -SC27- , -SC28- , -SC38- is dropped from November 2005	30
7	-	Fuse 4 on fuse holder on battery -SA4-	80 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC22- up to -SC27- , -SC28- , -SC38- , -SC43- applicable from May 2009	30
8	-	Fuse 5 on fuse holder on battery -SA5-	80 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC19- , -SC22- up to -SC27- , -SC28- , -SC38- applicable from November 2005 is dropped from May 2006	30
8	-	Fuse 5 on fuse holder on battery -SA5-	80 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC22- up to -SC27- , -SC28- , -SC38- , -SC43- applicable from May 2006 is dropped from May 2009	30
9	-	Fuse 6 on fuse holder on battery -SA6-	-	-	Not assigned	-
10	-	Fuse 7 on fuse holder on battery -SA7-	50 A	-	Option doctor is dropped from May 2009	30
			50 A		Option doctor or police applicable from May 2009	
			80 A		Option police is dropped from May 2009	

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			30 A		Electronically controlled damping control unit -J250- applicable from May 2008	

1.11 Position of fuses electronics box high, engine codes BMJ, BUB, CBRA, from model year 2006

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
4	-	Fuse 1 in fuse holder A -SA1-	150 A	-	Alternator -C- (70 A) Alternator -C- (90 A) Alternator -C- (110 A) Alternator -C- (120 A)	30
			200 A	-	Alternator -C- (140A)	
5	-	Fuse 2 on fuse holder on battery -SA2-	80 A	-	Power steering control unit -J500-	30
6	-	Fuse 3 on fuse holder on battery -SA3-	50 A	-	Radiator fan control unit -J293-	30
7	-	Fuse 4 on fuse holder on battery -SA4-	80 A	-	Supply for the fuses: -SC22- up to -SC27- , -SC28- , -SC38- applicable from May 2009	30
8	-	Fuse 5 on fuse holder on battery -SA5-	80 A	-	Supply for the fuses: -SC22- up to -SC27- , -SC28- , -SC38- is dropped from May 2009	30
9	-	Fuse 6 on fuse holder on battery -SA6-	50 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC19- , -SC44- , -SC45- is dropped from November 2005	30
9	-	Fuse 6 on fuse holder on battery -SA6-	50 A	-	Supply for the fuses: -SC44- , -SC45- applicable from November 2005	30
10	-	Fuse 7 on fuse holder on battery -SA7-	50 A	-	Option doctor is dropped from May 2009	30
			50 A	-	Option doctor or police applicable from May 2009	
			80 A	-	Option police is dropped from May 2009	
			30 A		Electronically controlled damping control unit -J250- applicable from May 2008	

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1.12 Location Fuse holder B -SB- on electronics box low, in left engine compartment

1.12.1 Fuse colours

50 A - red

40 A - orange

30 A - light-green

25 A - natural (white)

20 A - yellow

15 A - light blue

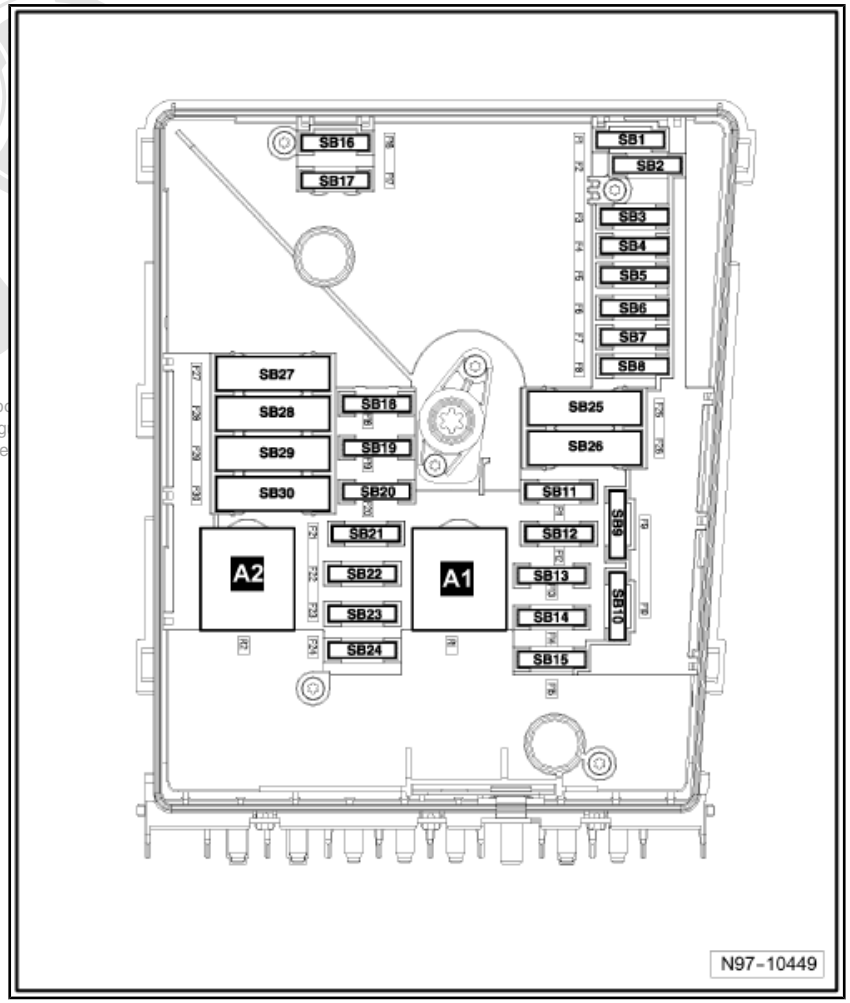
10 A - red

7.5 A - brown

5 A - light-brown

3 A - purple

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1.13 Position of fuses electronics box low, from model year 2006

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
F1	-	Fuse 1 on fuse holder B -SB1-	20 A	-	Convenience system central control unit -J393-	30
F2	-	Fuse 2 on fuse holder B -SB2-	5 A	-	Steering column electronics control unit -J527-	30
F3	-	Fuse 3 on fuse holder B -SB3-	5 A	-	Onboard supply control unit -J519-	30
F4	-	Fuse 4 on fuse holder B -SB4-	30 A	-	ABS control unit -J104- ABS hydraulic unit -N55-	30
F5	-	Fuse 5 on fuse holder B -SB5-	15 A	-	Mechatronic unit for dual clutch gearbox -J743-	30
F6	-	Fuse 6 on fuse holder B -SB6-	5 A	-	Control unit in dash panel insert -J285-	30
F7	-	Not assigned	-	-		
F8	-	Fuse 8 on fuse holder B -SB8-	15 A	-	Radio -R- Navigation operating electronics control unit -J402-	30
F9	-	Fuse 9 on fuse holder B -SB9-	5 A	-	Navigation system with CD drive control unit -J401- Navigation system tuner for TV -J415- Satellite radio -R146- Telephone transmitter and receiver unit -R36- Aerial amplifier for mobile telephone -R86-	30
F10	-	Fuse 10 on fuse holder B -SB10-	5 A	-	Motronic control unit -J220- Motronic current supply relay -J271- Terminal 30 voltage supply relay -J317-	30
F11	-	Fuse 11 on fuse holder B -SB11-	20 A	-	Auxiliary heater control unit -J364-	30
F12	-	Fuse 12 on fuse holder B -SB12-	5 A	-	Data bus diagnostic interface -J533-	30
F13	-	Fuse 13 on fuse holder B -SB13-	30 A	-	Engine control unit -J623- Diesel direct injection system control unit -J248-	87
			25 A	-	Motronic control unit -J220- Engine control unit -J623-	
F14	-	Fuse 14 on fuse holder B -SB14-	20 A	-	Ignition coil 1 with output stage -N- Ignition coil 2 -N128- Ignition coil 1 with output stage -N70- Ignition coil 2 with output stage -N127- Ignition coil 3 with output stage -N291- Ignition coil 4 with output stage -N292-	87
F15	-	Fuse 15 on fuse holder B -SB15-	15 A	-	Lambda probe 1 heater after catalytic converter -Z29- Lambda probe 2 heater after catalytic converter -Z30- Lambda probe 3 heater after catalytic converter -Z64-	87
F15	-	Fuse 15 on fuse holder B -SB15-	10 A	-	Lambda probe 1 heater after catalytic converter -Z29-	87
F15	-	Fuse 15 on fuse holder B -SB15-	5 A	-	Automatic glow period control unit -J179- Fuel pump relay -J17-	87

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F16	-	Fuse 16 on fuse holder B -SB16-	30 A	-	ABS control unit -J104- ABS hydraulic pump -V64-	30
F17	-	Fuse 17 on fuse holder B -SB17-	15 A	-	Treble tone horn -H2- Bass tone horn -H7-	30
F18	-	Fuse 18 on fuse holder B -SB18-	30 A	-	Amplifier -R12- Amplifier with bass loudspeaker, on left in luggage compartment -R44-	30
F19	-	Fuse 19 on fuse holder B -SB19-	30 A	-	Wiper motor control unit -J400-	30
F21	-	Fuse 21 on fuse holder B -SB21-	15 A	-	Lambda probe heater -Z19- Lambda probe heater 2 -Z28- Lambda probe 1 heater after catalytic converter -Z29-	87
			10 A	-	Lambda probe heater -Z19-	
F22	-	Fuse 22 on fuse holder B -SB22-	5 A	-	Brake pedal switch -F63- Clutch position sender -G476-	87
F23	-	Fuse 23 on fuse holder B -SB23-	15 A	-	Fuel pressure regulating valve -N276-	87
			10 A	-	Exhaust gas recirculation valve -N18- Charge pressure control solenoid valve -N75- Exhaust gas recirculation valve 2 -N213- Exhaust gas recirculation cooler change-over valve -N345-	
			5 A	-	Secondary air pump relay -J299-	
F24	-	Fuse 24 on fuse holder B -SB24-	10 A	-	Map-controlled engine cooling system thermostat -F265- Activated charcoal filter solenoid valve 1 -N80- Variable intake manifold change-over valve -N156- Camshaft control valve 1 -N205- Intake manifold flap motor -V157-	87
F25	-	Fuse 25 on fuse holder B -SB25-	40 A	-	Onboard supply control unit -J519- (right side light, right main beam, right dipped beam, right turn signal, right fog light)	30
F26	-	Fuse 26 on fuse holder B -SB26-	40 A	-	Onboard supply control unit -J519- (left side light, left main beam, left dipped beam, left turn signal, left fog light)	30
F27	-	Fuse 27 on fuse holder B -SB27-	50 A	-	Automatic glow period control unit -J179- Glow plug 1 -Q10- Glow plug 2 -Q11- Glow plug 3 -Q12- Glow plug 4 -Q13-	87
			40 A		Secondary air pump motor -V101-	
F28	-	Fuse 28 on fuse holder B -SB28-	40 A	-	Terminal 15 voltage supply relay 2 -J681- Supply for the fuses: -SC1- up to -SC6- , -SC7- up to -SC11- , -SC29- up to -SC31- , -SC39- , -SC47- , -SC49-	30
F29	-	Fuse 29 on fuse holder B -SB29-	50 A	-	Supply for the fuses: -SC18- , -SC20- , -SC32- up to -SC37- , -SC44- , -SC45- , -SC48- , -S131-	30

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F30	-	Fuse 30 on fuse holder B -SB30-	50 A [1]	-	X-contact relief relay -J59- Supply for the fuses: -SC40- , -SC41- , -SC42- , -SC46-	30

Note

[1] Fuse was increased from 40 A to 50 A, applicable from November 2005

1.14 Position of fuses electronics box low, from model year 2007

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
F1	-	Fuse 1 on fuse holder B -SB1-	40 A	-	Voltage stabiliser -J532- Supply for the fuses: -SC7- up to -SC11- for models with stop/start system only applicable from model year 2010	30
F1	-	Fuse 1 on fuse holder B -SB1-	40 A	-	Supply for the fuses: -SC7- up to -SC10- for models without stop/start system only applicable from model year 2010	30
F2	-	Fuse 2 on fuse holder B -SB2-	5 A	-	Steering column electronics control unit -J527- is dropped, from model year 2009	30
F2	-	Fuse 2 on fuse holder B -SB2-	30 A	-	Mechatronic unit for dual clutch gearbox -J743- (7-speed dual clutch gearbox 0AM) applicable from model year 2009	30
F2	-	Fuse 2 on fuse holder B -SB2-	20 A	-	Fuel pressure regulating valve -N276- (CBFA) applicable from model year 2009	30
F3	-	Fuse 3 on fuse holder B -SB3-	5 A	-	Onboard supply control unit -J519-	30
F3	-	Fuse 3 on fuse holder B -SB3-	5 A	-	Battery monitor control unit -J367- applicable from model year 2010	30
F4	-	Fuse 4 on fuse holder B -SB4-	30 A	-	ABS control unit -J104- (MK60 ESP valves) ABS control unit -J104- (MK70 ABS valves) is dropped from model year 2009	30
F4	-	Fuse 4 on fuse holder B -SB4-	20 A	-	ABS control unit -J104- (MK60 ESP valves) applicable from model year 2009	30
F5	-	Fuse 5 on fuse holder B -SB5-	15 A	-	Mechatronic unit for dual clutch gearbox -J743-	30
F6	-	Fuse 6 on fuse holder B -SB6-	5 A	-	Control unit in dash panel insert -J285- is dropped, from model year 2010	30

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F6	-	Fuse 6 on fuse holder B -SB6-	5 A	-	Steering column electronics control unit -J527- applicable from model year 2009	30
F7	-	Fuse 7 on fuse holder B -SB7-	20 A	-	Fuel pressure regulating valve -N276- (CBFA) is dropped from model year 2009	30
F8	-	Fuse 8 on fuse holder B -SB8-	15 A	-	Navigation operating electronics control unit -J402- Control unit with display for radio and navigation system -J503- Radio -R- is dropped, from model year 2010	30
F8	-	Fuse 8 on fuse holder B -SB8-	25 A	-	Control unit with display for radio and navigation system -J503- [1] for models with radio navigation system (models for Japan) only is dropped from model year 2010	30
F9	-	Fuse 9 on fuse holder B -SB9-	5 A	-	Navigation system with CD drive control unit -J401- [1] Navigation system tuner for TV -J415- [1] Satellite radio -R146- Telephone transmitter and receiver unit -R36- Aerial amplifier for mobile telephone -R86- [1] 18-pin connector -T18a- (VDA interface) [1] is dropped from model year 2010	30
F10	-	Fuse 10 on fuse holder B -SB10-	5 A	-	Terminal 30 voltage supply relay -J317- (BKC, BXE, AZV, BKD, BLS, BMM, BUY, BMN, CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB)	30
F10		Fuse 10 on fuse holder B -SB10-	5 A	-	Engine control units -J...- (CAXC, CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CBZB, CFFA, CFFB, CFGB) Motronic current supply relay -J271- (CAXC, CBZB)	30
F10	-	Fuse 10 on fuse holder B -SB10-	10 A	-	Engine control units -J...- (BLF, BPT, BPU, BVZ, BVY, BZB, CAWB, CBFA, CCTA, CDAA, CCZA) Motronic current supply relay -J271- (BLF, BPT, BPU, BVZ, BVY, BZB, CAWB, CBFA, CCTA, CDAA, CCZA)	30
F11	-	Fuse 11 on fuse holder B -SB11-	20 A	-	Auxiliary heater control unit -J364- [1]	30
F12	-	Fuse 12 on fuse holder B -SB12-	5 A	-	Data bus diagnostic interface -J533-	30
F13	-	Fuse 13 on fuse holder B -SB13-	30 A	-	Engine control units -J...- (BKC, BXE, AZV, BKD, BLS, BMM, BUY, BMN, CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB)	87
			25 A		Engine control units -J...- (BLF, BPT, BPU, BYT, BVZ, BVY, BSE, BSF) is dropped from May 2007, for models with engine codes BSE, BSF only	
			15 A		Engine control units -J...- (CAXC, BZB, CAWB, CBFA, CCTA, CDAA, CCZA, CBZB) applicable from May 2007, for models with engine codes BSE, BSF, CCSA only	
F14		Fuse 14 on fuse holder B -SB14-	20 A	-	Ignition coil 1 with output stage -N- (BSE, BSF, CCSA, CBZB) Ignition coil 2 -N128- (BSE, BSF, CCSA, CBZB)	87

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F14	-	Fuse 14 on fuse holder B -SB14-	20 A	-	Ignition coil 1 with output stage -N70- Ignition coil 2 with output stage -N127- Ignition coil 3 with output stage -N291- Ignition coil 4 with output stage -N292- for models with engine codes BLF, BPT, BPU, BYT, BVZ, BVY, CAXC, BZB, CAWB, CBFA, CCTA, CDAA, CCZA only	87
F14	-	Fuse 14 on fuse holder B -SB14-	20 A	-	Fuel pressure regulating valve -N276- (CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB) Fuel metering valve -N290- (CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB)	87
F15	-	Fuse 15 on fuse holder B -SB15-	15 A	-	Lambda probe 1 heater after catalytic converter -Z29- (BVY) Lambda probe 2 heater after catalytic converter -Z30- (BVY) Lambda probe 3 heater after catalytic converter -Z64- (BVY)	87
F15	-	Fuse 15 on fuse holder B -SB15-	10 A	-	Lambda probe 1 heater after catalytic converter -Z29- (BVZ)	87
F15	-	Fuse 15 on fuse holder B -SB15-	10A	-	Lambda probe 1 heater after catalytic converter -Z29- (CAXC, CBZB) Lambda probe heater -Z19- (CAXC, CBZB)	87
F15	-	Fuse 15 on fuse holder B -SB15-	10 A	-	Camshaft control valve 1 -N205- (BPT, BPU, BYT)	87
F15		Fuse 15 on fuse holder B -SB15-	10 A	-	Radiator identification sensor -G611- (CBFA) Fuel system diagnostic pump -V144- (CBFA, CCTA) Lambda probe heater -Z19- (CBFA)	87
F15	-	Fuse 15 on fuse holder B -SB15-	5 A	-	Fuel pump relay -J17- Automatic glow period control unit -J179- for models with engine codes BKC, BXE, AZV, BKD, BLS, BMM, BUY, BMN, CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB only	87
F15	-	Fuse 15 on fuse holder B -SB15-	5 A	-	Low heat output relay -J359- High heat output relay -J360- for models with engine codes BKC, BXE, AZV, BKD, BLS, BMM, BUY, BMN, CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB only applicable from November 2006, for models with auxiliary air heater only	87
F15	-	Fuse 15 on fuse holder B -SB15-	5 A	-	Relay for supplementary fuel pump -J832- (CBBB, CBAB, CBAA, CBEA, CFFA, CFFB, CFGB)	87
F16	-	Fuse 16 on fuse holder B -SB16-	30 A	-	ABS control unit -J104- (ABS pump) is dropped from model year 2009	30
F16	-	Fuse 16 on fuse holder B -SB16-	30 A	-	Onboard supply control unit -J519- Right side light supply, right main beam, right dipped beam, right turn signal, right fog light applicable from model year 2009	30
F17	-	Fuse 17 on fuse holder B -SB17-	15 A	-	Treble tone horn -H2- Bass tone horn -H7-	30
F18	-	Fuse 18 on fuse holder B -SB18-	30 A	-	Amplifier -R12- Amplifier with bass loudspeaker, on left in luggage compartment -R44-	30

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F18	-	Fuse 18 on fuse holder B -SB18-	30 A	-	Voltage stabiliser -J532- Amplifier -R12- Amplifier with bass loudspeaker, on left in luggage compartment -R44- for models with stop/start system only applicable from model year 2010	30
F19	-	Fuse 19 on fuse holder B -SB19-	30 A	-	Wiper motor control unit -J400-	30
F20	-	Fuse 20 on fuse holder B -SB20-	20 A	-	Fuel pressure regulating valve -N276- (BYT, BPT, BPU, BZB, CAWB, CCTA, CDAA, CCZA)	87
F20	-	Fuse 20 on fuse holder B -SB20-	10 A	-	Coolant circulation pump -V50- (CAXC)	87
F21	-	Fuse 21 on fuse holder B -SB21-	10 A	-	Lambda probe 3 heater after catalytic converter -Z64- (CBFA)	87
F21	-	Fuse 21 on fuse holder B -SB21-	10 A	-	Lambda probe heater -Z19- (BSE, BSF, BLF, BPT, BPU, BYT, BVZ, BVY, BLS, BMM, BUY, BMN, BZB, CAWB, CCTA, CCSA, CDAA, CCZA, CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB) Lambda probe 1 heater after catalytic converter -Z29- (BSE, BSF, BLF, CCTA, CBFA, CCSA, CDAA, CCZA, CBEA) is dropped from May 2009, for models with engine codes BSE, CCSA, CCTA, CCZA, CDAA only	87
F21	-	Fuse 21 on fuse holder B -SB21-	15 A	-	Lambda probe heater -Z19- (BSE, CCSA, CCTA, CCZA, CDAA) Lambda probe 1 heater after catalytic converter -Z29- (BSE, CCSA, CCTA, CCZA, CDAA) applicable from model year 2010	87
F21	-	Fuse 21 on fuse holder B -SB21-	20 A	-	Vacuum pump relay -J57- (CAXC) Vacuum pump for brakes -V192- (CAXC)	87
F22		Fuse 22 on fuse holder B -SB22-	5 A		Clutch position sender -G476-	87
F22		Fuse 22 on fuse holder B -SB22-	5 A		Brake light switch -F- Brake pedal switch -F63- applicable from model year 2010	87
F23	-	Fuse 23 on fuse holder B -SB23-	5 A	-	Continued coolant circulation relay -J151- (BPT, BPU, BYT, BZB, CAWB, CCTA, CBFA, CCZA, CDAA) Secondary air pump relay -J299- (BSE, CBFA, CCSA) Engine component current supply relay -J757- (CBFA) Continued coolant circulation pump -V51- (BPT, BPU, BYT, BZB, CAWB, CCTA, CBFA, CCZA, CDAA)	87
			10 A		Exhaust gas recirculation valve -N18- (BKC, BXE, AZV, BKD) Charge pressure control solenoid valve -N75- (BLS, BMM, BKC, BXE, AZV, BKD, BMN, BUY, CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB) Exhaust gas recirculation valve 2 -N213- (BKC, BXE, AZV, BKD) Intake manifold flap valve -N316- (BMN, BUY) Exhaust gas recirculation cooler change-over valve -N345- (BLS, BMM) Exhaust gas recirculation cooler change-over valve -N345- (BMN, BUY, CBBB, CBAB, CBAA, CAYB, CAYC, CFFA, CFFB, CFGB)	
			10 A		Air mass meter -G70- (CFFA, CFFB, CFGB)	
			15 A		Fuel pressure regulating valve -N276- (BLF, CAXC, BVY, BVZ, CBZB)	

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F24	-	Fuse 24 on fuse holder B -SB24-	10 A	-	Radiator fan control unit -J293- Engine component current supply relay -J757- (BPT, BPU, BYT, CAXC, CDAA, CAWB, CCZA, CCTA) Regulating flap control unit -J808- (CBEA) Charge pressure control solenoid valve -N75- (BPT, BPU, BYT, CAXC, CAWB, BZB, CCTA, CBFA, CDAA, CCZA) Activated charcoal filter solenoid valve 1 -N80- (BPT, BPU, BYT, BSE, BSF, BLF, BVY, BVZ, CAXC, CAWB, BZB, CCTA, CBFA, CCSA, CDAA, CCZA, CBZB) Secondary air inlet valve -N112- (CBFA) Variable intake manifold change-over valve -N156- (BSE, BSF, BLF, BVY, BVZ, CCSA) Camshaft control valve 1 -N205- (BLF, BVY, BVZ, CAXC, CAWB, BZB, CCTA, CBFA, CDAA, CCZA) Turbocharger air recirculation valve -N249- (BPT, BPU, BYT, CAXC, CAWB, BZB, CCTA, CBFA, CDAA, CCZA) Intake manifold flap valve -N316- (BPT, BPU, BYT, CAWB, BZB, CCTA, CBFA, CDAA, CCZA, CBZB) Valve for oil pressure control -N428- Intake manifold flap motor -V157- (BKC, BXE, AZV, BKD) Pump for exhaust gas recirculation cooler -V400- (CBBB, CBAB, CBAA, CAYB, CAYC, CFFA, CFFB, CFGB) Electrohydraulic engine mounting solenoid valve -N398- (CAYB, CAYC)	87
F25	-	Fuse 25 on fuse holder B -SB25-	30 A	-	Onboard supply control unit -J519- Right side light supply, right main beam, right dipped beam, right turn signal, right fog light is dropped from model year 2009	30
F25	-	Fuse 25 on fuse holder B -SB25-	40 A	-	ABS control unit -J104- (MK60 ESP pump) ABS control unit -J104- (MK70 ABS pump and ABS valves) applicable from model year 2009	30
F26	-	Fuse 26 on fuse holder B -SB26-	30 A	-	Onboard supply control unit -J519- Left side light supply, left main beam, left dipped beam, left turn signal, left fog light	30
F27	-	Fuse 27 on fuse holder B -SB27-	50 A	-	Automatic glow period control unit -J179- Glow plug 1 -Q10- Glow plug 2 -Q11- Glow plug 3 -Q12- Glow plug 4 -Q13- for models with engine codes BKC, BXE, AZV, BKD, BLS, BMM, BMN, BUY, CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB only	87
F27	-	Fuse 27 on fuse holder B -SB27-	40 A	-	Secondary air pump motor -V101- (BSE, CBFA, CCSA)	
F28	-	Fuse 28 on fuse holder B -SB28-	40 A	-	Terminal 15 voltage supply relay 2 -J681- Supply for the fuses: -SC1- up to -SC6- , -SC29- up to -SC31- , -SC46- , -SC47- , -SC49- is dropped, from model year 2009	30

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F29	-	Fuse 29 on fuse holder B -SB29-	50 A	-	B300Positive connection 4 (30) in main wiring harness Supply for the fuses: -SC32- up to -SC37- , -SC44- , -SC45- , -SC48- , -S131- is dropped, from model year 2009	30
F29	-	Fuse 29 on fuse holder B -SB29-	50 A	-	B300Positive connection 4 (30) in main wiring harness Supply for the fuses: -SC32- up to -SC37- , -SC39- , -SC44- , -SC45- , -SC48- , -S131- applicable from model year 2009	30
F30	-	Fuse 30 on fuse holder B -SB30-	50 A	-	X-contact relief relay -J59- Supply for the fuses: -SC40- , -SC41- , -SC42- is dropped, from model year 2009	30
F30	-	Fuse 30 on fuse holder B -SB30-	50 A	-	Terminal 15 voltage supply relay 2 -J681- Supply for the fuses: -SC1- up to -SC6- , -SC19- , -SC20- , -SC29- up to -SC31- , -SC40- , -SC41- , -SC42- , -SC46- , -SC47- , -SC49- applicable from model year 2009	30

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[1] not for models with US equipment

1.15 Location Fuse holder B -SB- on electronics box high, in left engine compartment

1.15.1 Fuse colours

50 A - red

40 A - orange

30 A - light-green

25 A - natural (white)

20 A - yellow

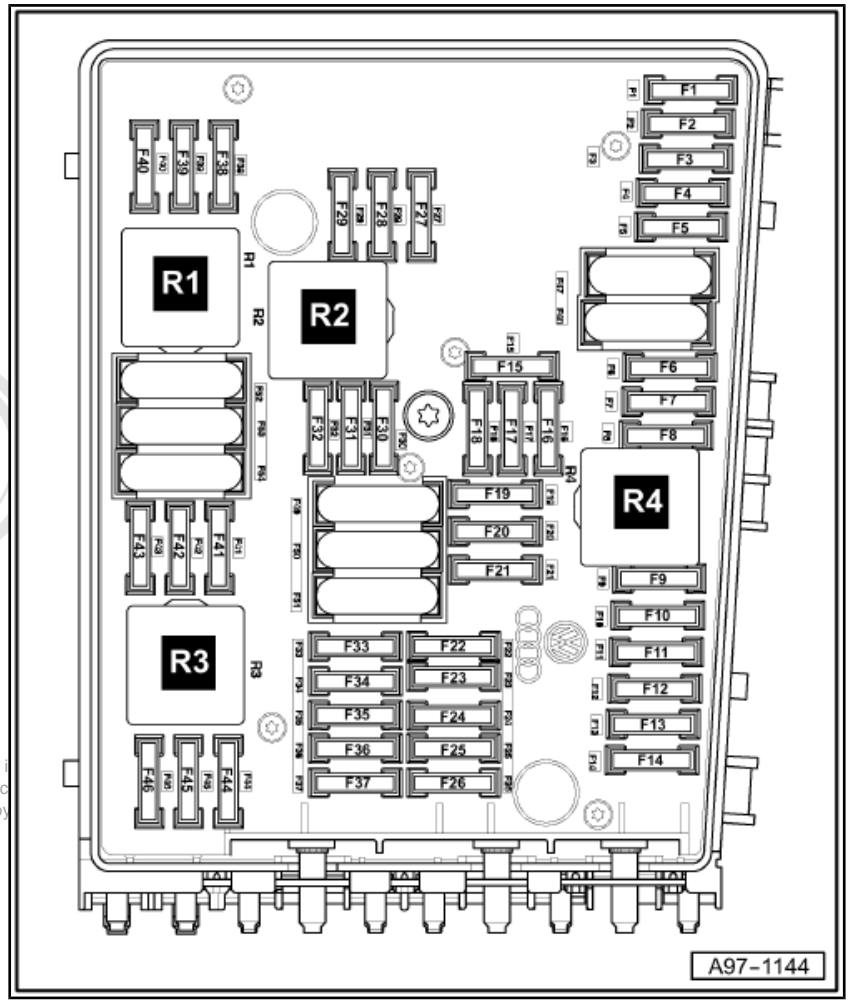
15 A - light blue

10 A - red

7.5 A - brown

5 A - light-brown

3 A - purple



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1.16 Position of fuses electronics box high, from model year 2004

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
F1	-	Fuse 1 on fuse holder B -SB1-	30 A	-	ABS hydraulic pump -V64-	30
F2	-	Fuse 2 on fuse holder B -SB2-	30 A	-	ABS hydraulic unit -N55-	30
F3	-	Fuse 3 on fuse holder B -SB3-	20 A	-	Convenience system central control unit -J393-	30
F4	-	Fuse 4 on fuse holder B -SB4-	5 A	-	Onboard supply control unit -J519- for models with battery in engine compartment only	30
F5	-	Fuse 5 on fuse holder B -SB5-	20 A	-	Treble tone horn -H2- Bass tone horn -H7-	30
F6	-	Fuse 6 on fuse holder B -SB6-	7.5 A	-	Fuel pressure regulating valve -N276- [1] is dropped from model year 2005	87 (30a)
			15 A	-	Fuel pressure regulating valve -N276- [1] applicable from model year 2005	
			20 A	-	Output stage -N122- [1]	
			30 A	-	Ignition coil 1 with output stage -N70- Ignition coil 2 with output stage -N127- Ignition coil 3 with output stage -N291- Ignition coil 4 with output stage -N292- Ignition coil 5 with output stage -N323- [1] Ignition coil 6 with output stage -N324- [1]	
F7	-	Fuse 7 on fuse holder B -SB7-	5 A	-	Brake light switch -F- Brake pedal switch -F63- Clutch travel sender -G162-	87 (30a)
F8	-	Fuse 8 on fuse holder B -SB8-	10 A	-	Map-controlled engine cooling system thermostat -F265- [1] Radiator fan control unit -J293- Exhaust gas recirculation valve -N18- [1] Activated charcoal filter solenoid valve 1 -N80- [1] Variable intake manifold change-over valve -N156- [1] Camshaft control valve 1 -N205- Exhaust camshaft control valve 1 -N318- [1] Intake manifold flap motor -V157- [1]	87 (30a)
F9	-	Fuse 9 on fuse holder B -SB9-	10 A	-	Fuel pump relay -J17- [1] Continued coolant circulation relay -J151- Automatic glow period control unit -J179- [1] NOx sensor control unit -J583- [1] Continued coolant circulation pump -V51- NOx sender heater -Z44- [1]	87 (30a)

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F10	-	Fuse 10 on fuse holder B -SB10-	10 A	-	Secondary air pump relay -J299- [1] Exhaust gas recirculation valve -N18- [1] Charge pressure control solenoid valve -N75- [1] Secondary air inlet valve -N112- [1] Exhaust gas recirculation valve 2 -N213- [1] Exhaust flap valve -N220- [1] Lambda probe 1 heater after catalytic converter -Z29- [1] Lambda probe 2 heater after catalytic converter -Z30- [1] Fuel system diagnostic pump -V144-	87 (30a)
F11	-	Fuse 11 on fuse holder B -SB11-	25 A	-	Motronic control unit -J220- Simos control unit -J361- [1]	87 (30a)
			30 A	-	Diesel direct injection system control unit -J248- [1]	
F12	-	Fuse 12 on fuse holder B -SB12-	15 A	-	NOx sensor control unit -J583- [1] Lambda probe heater -Z19- [1] Lambda probe heater 2 -Z28- [1] NOx sender heater -Z44- [1]	87 (30a)
F13	-	Fuse 13 on fuse holder B -SB13-	20 A	-	Mechatronic unit for dual clutch gearbox -J743-	30
F14	-	Not assigned	-	-		-
F15	-	Fuse 15 on fuse holder B -SB15-	40 A	-	Starter -B-	87 (50)
F16	-	Fuse 16 on fuse holder B -SB16-	15 A	-	Steering column electronics control unit -J527-	30
F17	-	Fuse 17 on fuse holder B -SB17-	10 A	-	Control unit in dash panel insert -J285-	30
F18		Fuse 18 on fuse holder B -SB18-	30 A	-	Amplifier -R12- Amplifier with bass loudspeaker, on left in luggage compartment -R44-	30
F19	-	Fuse 19 on fuse holder B -SB19-	15 A	-	Radio -R- Navigation operating electronics control unit -J402-	30
F20	-	Fuse 20 on fuse holder B -SB20-	5 A	-	Telephone transmitter and receiver unit -R36- Aerial amplifier for mobile telephone -R86- [1]	30
F21	-	Fuse 21 on fuse holder B -SB21-	10 A	-	Navigation system with CD drive control unit -J401- Navigation system tuner for TV -J415- [1]	30
F22	-	Not assigned	-	-		-
F23	-	Not assigned	-	-		-
F24	-	Fuse 24 on fuse holder B -SB24-	10 A	-	Data bus diagnostic interface -J533-	30
F25	-	Not assigned	-	-		
F26	-	Fuse 26 on fuse holder B -SB26-	10 A	-	Motronic control unit -J220- Motronic current supply relay -J271-	30
			5 A	-	Terminal 30 voltage supply relay -J317- [1]	
F27	-	Fuse 21 on fuse holder B -SB21-	10 A	-	Heater element for crankcase breather -N79- [1] for models with heater element only	87 (15)

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			5 A	-	Heater element for crankcase breather -N79- [1] for models with heater element only	87 (15)
F28		Fuse 28 on fuse holder B -SB28-	20 A	-	Automatic gearbox control unit -J217- [1]	87 (15)
F29	-	Fuse 29 on fuse holder B -SB29-	10 A	-	Injector, cylinder 1 -N30- [1] Injector, cylinder 2 -N31- [1] Injector, cylinder 3 -N32- [1] Injector, cylinder 4 -N33- [1] Injector, cylinder 5 -N83- [1] Injector, cylinder 6 -N84- [1]	87 (15)
			20 A		Ignition coil 1 with output stage -N70- [1] Ignition coil 2 with output stage -N127- [1] Ignition coil 3 with output stage -N291- [1] Ignition coil 4 with output stage -N292- [1]	
F30	-	Fuse 30 on fuse holder B -SB30-	20 A	-	Auxiliary heater control unit -J364- [1]	30
F31	-	Fuse 31 on fuse holder B -SB31-	30 A	-	Wiper motor control unit -J400-	30
F32	-	Fuse 32 on fuse holder B -SB32-	10 A	-	Injector, cylinder 1 -N30- [1] Injector, cylinder 2 -N31- [1] Injector, cylinder 3 -N32- [1] Injector, cylinder 4 -N33- [1] Charge pressure control solenoid valve -N75- Activated charcoal filter solenoid valve 1 -N80- Turbocharger air recirculation valve -N249-	87 (15a)
F33	-	Fuse 33 on fuse holder B -SB33-	15 A	-	Fuel system pressurisation pump -G6- [1]	87 (15a)
F33	-	Fuse 33 on fuse holder B -SB33-	7.5 A	-	Fuel pressure regulating valve -N276- is dropped, from model year 2005	87 (15a)
F33	-	Fuse 33 on fuse holder B -SB33-	15 A	-	Fuel pressure regulating valve -N276- applicable from model year 2005	87 (15a)
F34	-	Not assigned	-	-		-
F35	-	Not assigned	-	-		-
F36	-	Not assigned	-	-		-
F37	-	Not assigned	-	-		-
F38	-	Fuse 38 on fuse holder B -SB38-	10 A	-	Left headlight range control motor -V48- Right headlight range control motor -V49-	87 (15)
F39	-	Fuse 39 on fuse holder B -SB39-	5 A	-	Oil level and oil temperature sender -G266-	87 (15)
F40	-	Fuse 40 on fuse holder B -SB40-	20 A	-	Supply for the fuses: -SC1- up to -SC6- , -SC7- up to -SC11- , -SC29- up to -SC31- for models with battery in engine compartment only	87 (15)
F41	-	Fuse 41 on fuse holder B -SB41-	10 A	-	Air mass meter -G70-	87 (15)

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F42	-	Fuse 42 on fuse holder B -SB42-	5 A	-	Fuel pump relay -J17-	87 (15)
			10 A	-	Air mass meter -G70- [1]	
F43	-	Fuse 43 on fuse holder B -SB43-	20 A	-	Vacuum pump relay -J57- [1] for petrol engines with automatic gearbox only	87 (15)
F44	-	Fuse 44 on fuse holder B -SB44-	10 A	-	Air mass meter -G70- [1] Fuel system diagnostic pump -V144-	87 (15a)
F45	-	Fuse 45 on fuse holder B -SB45-	10 A	-	Lambda probe heater -Z19- Lambda probe 1 heater after catalytic converter -Z29- [1]	87 (15a)
			15 A	-	Lambda probe heater -Z19- [1] Lambda probe 1 heater after catalytic converter -Z29- [1]	
F46	-	Fuse 46 on fuse holder B -SB46-	10 A	-	Lambda probe heater 2 -Z28- [1] Lambda probe 1 heater after catalytic converter -Z29- Lambda probe 2 heater after catalytic converter -Z30- [1]	87 (15a)
F47	-	Fuse 47 on fuse holder B -SB47-	40 A	-	Onboard supply control unit -J519- Left side light supply, left main beam, left dipped beam, left turn signal, left fog light	30
F48	-	Fuse 48 on fuse holder B -SB48-	40 A	-	Onboard supply control unit -J519- Right side light supply, right main beam, right dipped beam, right turn signal, right fog light	30
F49	-	Fuse 49 on fuse holder B -SB49-	30 A	-	Terminal 15 voltage supply relay 2 -J681- Supply for the fuses: -SC1- up to -SC6- , -SC7- up to -SC11- , -SC29- up to -SC31- for models with battery in luggage compartment only	30
F50	-	Not assigned	-	-	-	-
F51	-	SB51 - Fuse 51 on fuse holder	40 A	-	Secondary air pump relay -J299- [1] Secondary air pump motor -V101- [1]	30
			50 A	-	Automatic glow period control unit -J179- [1]	
F52	-	SB52 - Fuse 52 on fuse holder	50 A	-	X-contact relief relay -J59- Supply for the fuses: -SC40- , -SC41- , -SC42- , -SC46-	30
F53	-	SB53 - Fuse 53 on fuse holder	50 A	-	Supply for the fuses: -SC32- up to -SC37- , -SC44- , -SC45- for models with battery in engine compartment only	30
			50 A	-	Supply for the fuses: -SC32- up to -SC37- for models with battery in luggage compartment only	30
F54	-		50 A	-	Radiator fan thermal switch -F18- [1] Radiator fan control unit -J293- J293 - Radiator fan control unit	30

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[1] not for models with US equipment

1.17 Position of fuses electronics box high, from model year 2006

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
F1	-	Fuse 1 on fuse holder B -SB1-	30 A	-	ABS control unit -J104- ABS hydraulic pump -V64-	30
F2	-	Fuse 2 on fuse holder B -SB2-	30 A	-	ABS control unit -J104- ABS hydraulic unit -N55-	30
F3	-	Fuse 3 on fuse holder B -SB3-	20 A	-	Convenience system central control unit -J393-	30
F4	-	Fuse 4 on fuse holder B -SB4-	5 A	-	Onboard supply control unit -J519-	30
F5	-	Fuse 5 on fuse holder B -SB5-	15 A	-	Treble tone horn -H2- Bass tone horn -H7-	30
F6	-	Fuse 6 on fuse holder B -SB6-	15 A	-	Fuel pressure regulating valve -N276- Fuel system pressurisation pump -G6-	87
F7	-	Not assigned	-	-		-
F8	-	Not assigned	-	-		-
F9	-	Fuse 9 on fuse holder B -SB9-	10 A	-	Charge pressure control solenoid valve -N75- Activated charcoal filter solenoid valve 1 -N80- Turbocharger air recirculation valve -N249-	87
F10	-	Fuse 10 on fuse holder B -SB10-	10 A	-	Air mass meter -G70- Fuel system diagnostic pump -V144-	87
F11	-	Fuse 11 on fuse holder B -SB11-	10 A	-	Lambda probe heater -Z19- Lambda probe heater 2 -Z28-	87
F12	-	Fuse 12 on fuse holder B -SB12-	10 A	-	Lambda probe 1 heater after catalytic converter -Z29- Lambda probe 2 heater after catalytic converter -Z30-	87
F13	-	Fuse 13 on fuse holder B -SB13-	15 A	-	Mechatronic unit for dual clutch gearbox -J743-	30
F14	-	Not assigned	-	-		-
F15	-	Fuse 15 on fuse holder B -SB15-	10 A	-	Continued coolant circulation pump -V51-	87
F16	-	Fuse 16 on fuse holder B -SB16-	5 A	-	Steering column electronics control unit -J527-	30
F17	-	Fuse 17 on fuse holder B -SB17-	5 A	-	Control unit in dash panel insert -J285-	30
F18	-	Fuse 18 on fuse holder B -SB18-	30 A	-	Amplifier -R12- Amplifier with bass loudspeaker, on left in luggage compartment -R44-	30
F19	-	Fuse 19 on fuse holder B -SB19-	15 A	-	Radio -R- Navigation operating electronics control unit -J402-	30

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F20	-	Fuse 20 on fuse holder B -SB20-	5 A	-	Navigation system with CD drive control unit -J401- [1] Navigation system tuner for TV -J415- [1] Telephone transmitter and receiver unit -R36- Aerial amplifier for mobile telephone -R86- [1] Satellite radio -R146-	30
F21	-	Not assigned	-	-		-
F22	-	Not assigned	-	-		-
F23	-	Fuse 23 on fuse holder B -SB23-	5 A	-	Motronic control unit -J220- Motronic current supply relay -J271-	30
F24	-	Fuse 24 on fuse holder B -SB24-	5 A	-	Data bus diagnostic interface -J533-	30
F25	-	Not assigned	-	-		-
F26	-	Not assigned	-	-		-
F27	-	Not assigned	-	-		-
F28	-	Fuse 28 on fuse holder B -SB28-	25 A	-	Motronic control unit -J220-	87
F29	-	Fuse 29 on fuse holder B -SB29-	5 A	-	Continued coolant circulation relay -J151- Secondary air pump relay -J299-	87
F30	-	Fuse 30 on fuse holder B -SB30-	20 A	-	Auxiliary heater control unit -J364-	30
F31	-	Fuse 31 on fuse holder B -SB31-	30 A	-	Wiper motor control unit -J400-	30
F32	-	Not assigned	-	-		-
F33	-	Not assigned	-	-		-
F34	-	Not assigned	-	-		-
F35	-	Not assigned	-	-		-
F36	-	Not assigned	-	-		-
F37	-	Not assigned	-	-		-
F38	-	Fuse 38 on fuse holder B -SB38-	10 A	-	Activated charcoal filter solenoid valve 1 -N80- [1] Variable intake manifold change-over valve -N156- [1] Camshaft control valve 1 -N205- Exhaust camshaft control valve 1 -N318- [1] Radiator fan control unit -J293-	87
F39	-	Fuse 39 on fuse holder B -SB39-	5 A	-	Brake pedal switch -F63- Clutch position sender -G476-	87
F40	-	Fuse 40 on fuse holder B -SB40-	20 A	-	Ignition coil 1 with output stage -N70- Ignition coil 2 with output stage -N127- Ignition coil 3 with output stage -N291- Ignition coil 4 with output stage -N292-	87
F41	-	Not assigned	-	-		-
F42	-	Fuse 42 on fuse holder B -SB42-	5 A	-	Engine component current supply relay -J757-	87

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F43	-	Fuse 43 on fuse holder B -SB43-	30 A	-	Ignition coil 1 with output stage -N70- Ignition coil 2 with output stage -N127- Ignition coil 3 with output stage -N291- Ignition coil 4 with output stage -N292- Ignition coil 5 with output stage -N323- Ignition coil 6 with output stage -N324-	87
F44	-	Not assigned	-	-		-
F45	-	Not assigned	-	-		-
F46	-	Not assigned	-	-		-
F47	-	Fuse 47 on fuse holder B -SB47-	40 A	-	Onboard supply control unit -J519- Left side light supply, left main beam, left dipped beam, left turn signal, left fog light	30
F48	-	Fuse 48 on fuse holder B -SB48-	40 A	-	Onboard supply control unit -J519- Right side light supply, right main beam, right dipped beam, right turn signal, right fog light	30
F49	-	Fuse 49 on fuse holder B -SB49-	40 A	-	J681 - Terminal 15 voltage supply relay 2 Supply for the fuses: -SC1- up to -SC6- , -SC7- up to -SC11- , -SC29- up to -SC31- , -SC47- , -SC49-	30
F50	-	Not assigned	-	-		-
F51	-	Fuse 51 on fuse holder B -SB51-	40 A	-	Secondary air pump relay -J299- Secondary air pump motor -V101-	30
F52	-	Fuse 52 on fuse holder B -SB52-	50 A [2]	-	X-contact relief relay -J59- Supply for the fuses: -SC40- , -SC41- , -SC42- , -SC46-	30
F53	-	Fuse 53 on fuse holder B -SB53-	50 A	-	Supply for the fuses: -SC18- , -SC20- , -SC32- up to -SC37- , -SC44- , -SC45- , -SC48- , -S131-	30

[1] not for models with US equipment

[2] Fuse was increased from 40 A to 50 A, applicable from November 2005

1.18 Position of fuses electronics box high, from model year 2007

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
F1	-	Fuse 1 on fuse holder B -SB1-	30 A	-	ABS control unit -J104- (ABS pump) is dropped from model year 2009	30
F1	-	Fuse 1 on fuse holder B -SB1-	30 A	-	Onboard supply control unit -J519- Right side light supply, right main beam, right dipped beam, right turn signal, right fog light applicable from model year 2009	30

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F2	-	Fuse 2 on fuse holder B -SB2-	30 A	-	ABS control unit -J104- (MK60 ESP valves) ABS control unit -J104- (MK70 ABS valves) is dropped from model year 2009	30
F2	-	Fuse 2 on fuse holder B -SB2-	20 A	-	ABS control unit -J104- (MK60 ESP valves) applicable from model year 2009	30
F3	-	Fuse 3 on fuse holder B -SB3-	40 A	-	Voltage stabiliser -J532- Supply for the fuses: -SC7- up to -SC11- for models with stop/start system only applicable from model year 2010	30
F3	-	Fuse 3 on fuse holder B -SB3-	40 A	-	Supply for the fuses: -SC7- up to -SC10- for models without stop/start system only applicable from model year 2010	30
F4	-	Fuse 4 on fuse holder B -SB4-	5 A	-	Onboard supply control unit -J519-	30
F5	-	Fuse 5 on fuse holder B -SB5-	15 A	-	Treble tone horn -H2- Bass tone horn -H7-	30
F6	-	Fuse 6 on fuse holder B -SB6-	15 A	-	Fuel pressure regulating valve -N276- (BPY, BWA, BHZ, BZC)	87
F6	-	Fuse 6 on fuse holder B -SB6-	15 A	-	Fuel system pressurisation pump -G6- Injector, cylinder 1 -N30- Injector, cylinder 2 -N31- Injector, cylinder 3 -N32- Injector, cylinder 4 -N33- Injector, cylinder 5 -N83- Injector, cylinder 6 -N84- for models with engine code BUB only is dropped from model year 2009	87
F7	-	Fuse 7 on fuse holder B -SB7-	15 A	-	Fuel system pressurisation pump -G6- Injector, cylinder 1 -N30- Injector, cylinder 2 -N31- Injector, cylinder 3 -N32- Injector, cylinder 4 -N33- Injector, cylinder 5 -N83- Injector, cylinder 6 -N84- for models with engine codes BUB, CBRA only applicable from model year 2009	87
F7	-	Fuse 7 on fuse holder B -SB7-	15 A	-	Fuel pressure regulating valve -N276- (CDLA, CDLC, BPY) applicable from model year 2009	87
F8	-	Not assigned		-		
F9	-	Fuse 9 on fuse holder B -SB9-	10 A	-	Charge pressure control solenoid valve -N75- Activated charcoal filter solenoid valve 1 -N80- Turbocharger air recirculation valve -N249- for models with engine codes BPY, BWA, BHZ, CDLA, CDLC, BZC only	87

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F10	-	Fuse 10 on fuse holder B -SB10-	10 A	-	Fuel system diagnostic pump -V144- (BPY, BWA, BHZ, BZC, CDLA, CDLC)	87
F10	-	Fuse 10 on fuse holder B -SB10-	10 A	-	Air mass meter -G70- (BUB, CBRA)	87
F11	-	Fuse 11 on fuse holder B -SB11-	10 A	-	Lambda probe heater -Z19- (BPY, BWA, BHZ, CDLA, CDLC, BZC)	87
F11	-	Fuse 11 on fuse holder B -SB11-	10 A	-	Lambda probe heater -Z19- (BUB, CBRA) Lambda probe heater 2 -Z28- (BUB, CBRA)	87
F12	-	Fuse 12 on fuse holder B -SB12-	10 A	-	Lambda probe 1 heater after catalytic converter -Z29- (BPY, BWA, BHZ, CDLA, CDLC, BZC)	87
F12	-	Fuse 12 on fuse holder B -SB12-	10 A	-	Lambda probe 1 heater after catalytic converter -Z29- (BUB, CBRA) Lambda probe 2 heater after catalytic converter -Z30- (BUB, CBRA)	87
F13	-	Fuse 13 on fuse holder B -SB13-	15 A	-	Mechatronic unit for dual clutch gearbox -J743-	30
F14	-	Not assigned	-	-		
F15	-	Fuse 15 on fuse holder B -SB15-	10 A	-	Continued coolant circulation pump -V51-	87
F16	-	Fuse 16 on fuse holder B -SB16-	5 A	-	Steering column electronics control unit -J527- is dropped, from model year 2009	30
F17	-	Fuse 17 on fuse holder B -SB17-	5 A	-	Control unit in dash panel insert -J285- is dropped, from model year 2010	30
F17	-	Fuse 17 on fuse holder B -SB17-	5 A	-	Steering column electronics control unit -J527- applicable from model year 2009	30
F18	-	Fuse 18 on fuse holder B -SB18-	30 A	-	Amplifier -R12- Amplifier with bass loudspeaker, on left in luggage compartment -R44-	30
F18	-	Fuse 18 on fuse holder B -SB18-	30 A	-	Voltage stabiliser -J532- Amplifier -R12- Amplifier with bass loudspeaker, on left in luggage compartment -R44- for models with stop/start system only applicable from model year 2010	30
F19	-	Fuse 19 on fuse holder B -SB19-	25 A	-	Control unit with display for radio and navigation system -J503- for models with radio navigation system (models for Japan) only not for models with US equipment is dropped from model year 2010	30
F19	-	Fuse 19 on fuse holder B -SB19-	15 A	-	Navigation operating electronics control unit -J402- Control unit with display for radio and navigation system -J503- Radio -R- is dropped, from model year 2010	30

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F20	-	Fuse 20 on fuse holder B -SB20-	5 A	-	Navigation system with CD drive control unit -J401- Navigation system tuner for TV -J415- Telephone transmitter and receiver unit -R36- Aerial amplifier for mobile telephone -R86- is dropped, from model year 2010	30
F20	-	Fuse 20 on fuse holder B -SB20-	5 A	-	18-pin connector -T18a- (VDA interface) not for models with US equipment is dropped from model year 2010	30
F20	-	Fuse 20 on fuse holder B -SB20-	5 A	-	Satellite radio -R146- for models with US equipment only is dropped from model year 2010	30
F20	-	Fuse 20 on fuse holder B -SB20-	5 A	-	Telephone transmitter and receiver unit -R36- is dropped, from model year 2010	30
F21	-	Not assigned		-		
F22	-	Not assigned		-		
F23	-	Fuse 23 on fuse holder B -SB23-	10 A	-	Engine control units -J...- Motronic current supply relay -J271-	30
F24	-	Fuse 24 on fuse holder B -SB24-	5 A	-	Data bus diagnostic interface -J533-	30
F25	-	Not assigned	-	-		
F26	-	Not assigned	-	-		
F27	-	Fuse 27 on fuse holder B -SB27-	5 A	-	Exhaust flap valve -N220- (BHZ, CDLA, CDLC, BZC)	87
F28	-	Fuse 28 on fuse holder B -SB28-	25 A	-	Engine control units -J...- (BHZ, BUB, BWA, BPY, CDLA, BZC) is dropped from May 2007, for models with engine codes BUB, BHZ, BWA, BPY, CDLA, CDLC only	87
F28	-	Fuse 28 on fuse holder B -SB28-	15 A	-	Engine control units -J...- Applicable from May 2007, for models with engine codes BUB, BHZ, BWA, BPY, CDLA, CDLC, CBRA, BZC only	87
F29	-	Fuse 29 on fuse holder B -SB29-	5 A	-	Continued coolant circulation relay -J151- (BWA, BPY, BUB, CDLA, CDLC, CBRA) Secondary air pump relay -J299- (BUB, CBRA)	87
F30	-	Fuse 30 on fuse holder B -SB30-	20 A	-	Auxiliary heater control unit -J364-	30
F31	-	Fuse 31 on fuse holder B -SB31-	30 A	-	Wiper motor control unit -J400-	30
F32	-	Not assigned	-	-		
F33	-	Not assigned	-	-		
F34	-	Not assigned	-	-		
F35	-	Not assigned	-	-		
F36	-	Not assigned	-	-		
F37	-	Not assigned	-	-		

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F38	-	Fuse 38 on fuse holder B -SB38-	10 A	-	Radiator fan control unit -J293- (BPY, BWA, BHZ, BUB, CDLA, CDLC, CBRA, BZC) Activated charcoal filter solenoid valve 1 -N80- (BUB, CBRA) Secondary air inlet valve -N112- (BUB, CBRA) Variable intake manifold change-over valve -N156- (BUB, CBRA) Camshaft control valve 1 -N205- (BPY, BWA, BHZ, BUB, CDLA, CDLC, CBRA, BZC) Exhaust camshaft control valve 1 -N318- (BUB, CBRA) Secondary air inlet valve 2 -N320- (BUB, CBRA) Fuel system diagnostic pump -V144- (BUB, CBRA)	87
F39	-	Fuse 39 on fuse holder B -SB39-	5 A	-	Clutch position sender -G476-	87
F39	-	Fuse 39 on fuse holder B -SB39-	5 A	-	Brake light switch -F- Brake pedal switch -F63- applicable from model year 2010	87
F40	-	Fuse 40 on fuse holder B -SB40-	20 A	-	Ignition coil 1 with output stage -N70- Ignition coil 2 with output stage -N127- Ignition coil 3 with output stage -N291- Ignition coil 4 with output stage -N292- for models with engine codes BPY, BWA, BHZ, CDLA, CDLC, BZC only	87
F41	-	Not assigned	-	-		
F42	-	Fuse 42 on fuse holder B -SB42-	5 A	-	Engine component current supply relay -J757- for models with engine codes BPY, BWA, BHZ, CDLA, CDLC, BZC only	87
F43	-	Fuse 43 on fuse holder B -SB43-	30 A	-	Ignition coil 1 with output stage -N70- Ignition coil 2 with output stage -N127- Ignition coil 3 with output stage -N291- Ignition coil 4 with output stage -N292- Ignition coil 5 with output stage -N323- Ignition coil 6 with output stage -N324- for models with engine codes BUB, CBRA only	87
F44	-	Not assigned	-	-		
F45	-	Not assigned	-	-		
F46	-	Not assigned	-	-		
F47	-	Fuse 47 on fuse holder B -SB47-	30 A	-	Onboard supply control unit -J519- Left side light supply, left main beam, left dipped beam, left turn signal, left fog light	30
F48	-	Fuse 48 on fuse holder B -SB48-	40 A	-	ABS control unit -J104- (MK60 ESP pump) ABS control unit -J104- (MK70 ABS pump and ABS valves) applicable from model year 2009	30
F48	-	Fuse 48 on fuse holder B -SB48-	30 A	-	Onboard supply control unit -J519- Right side light supply, right main beam, right dipped beam, right turn signal, right fog light is dropped from model year 2009	30

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F49	-	Fuse 49 on fuse holder B -SB49-	40 A	-	Terminal 15 voltage supply relay 2 -J681- Supply for the fuses: -SC1- up to -SC6- , -SC29- up to -SC31- , -SC46- , -SC47- , -SC49- is dropped, from model year 2009	30
F50	-	Not assigned	-	-		
F51	-	Fuse 51 on fuse holder B -SB51-	40 A	-	Secondary air pump motor -V101- (BUB, CBRA)	30
F52	-	Fuse 52 on fuse holder B -SB52-	50 A	-	Terminal 15 voltage supply relay 2 -J681- Supply for the fuses: -SC1- up to -SC6- , -SC19- , -SC20- , -SC29- up to -SC31- , -SC40- , -SC41- , -SC42- , -SC46- , -SC47- , -SC49- applicable from model year 2009	30
F52	-	Fuse 52 on fuse holder B -SB52-	50 A	-	X-contact relief relay -J59- Supply for the fuses: -SC40- , -SC41- , -SC42- is dropped, from model year 2009	30
F53	-	Fuse 53 on fuse holder B -SB53-	50 A	-	B300Positive connection 4 (30) in main wiring harness Supply for the fuses: -SC32- up to -SC37- , -SC44- , -SC45- , -SC48- , -S131- for models with battery in engine compartment only is dropped from model year 2009	30
F53	-	Fuse 53 on fuse holder B -SB53-	50 A	-	B300Positive connection 4 (30) in main wiring harness Supply for the fuses: -SC32- up to -SC37- , -SC48- , -S131- for models with battery in luggage compartment only is dropped from model year 2009	30
F53	-	Fuse 53 on fuse holder B -SB53-	50 A	-	B300Positive connection 4 (30) in main wiring harness Supply for the fuses: -SC32- up to -SC37- , -SC39- , -SC44- , -SC45- , -SC48- , -S131- for models with battery in engine compartment only applicable from model year 2009	30
F53	-	Fuse 53 on fuse holder B -SB53-	50 A	-	B300Positive connection 4 (30) in main wiring harness Supply for the fuses: -SC32- up to -SC37- , -SC39- , -SC48- , -S131- for models with battery in luggage compartment only applicable from model year 2009	30

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1.19 Location Fuse holder C -SC- , under left dash panel

1.19.1 Fuse colours

50 A - red

40 A - orange

30 A - light-green

25 A - natural (white)

20 A - yellow

15 A - light blue

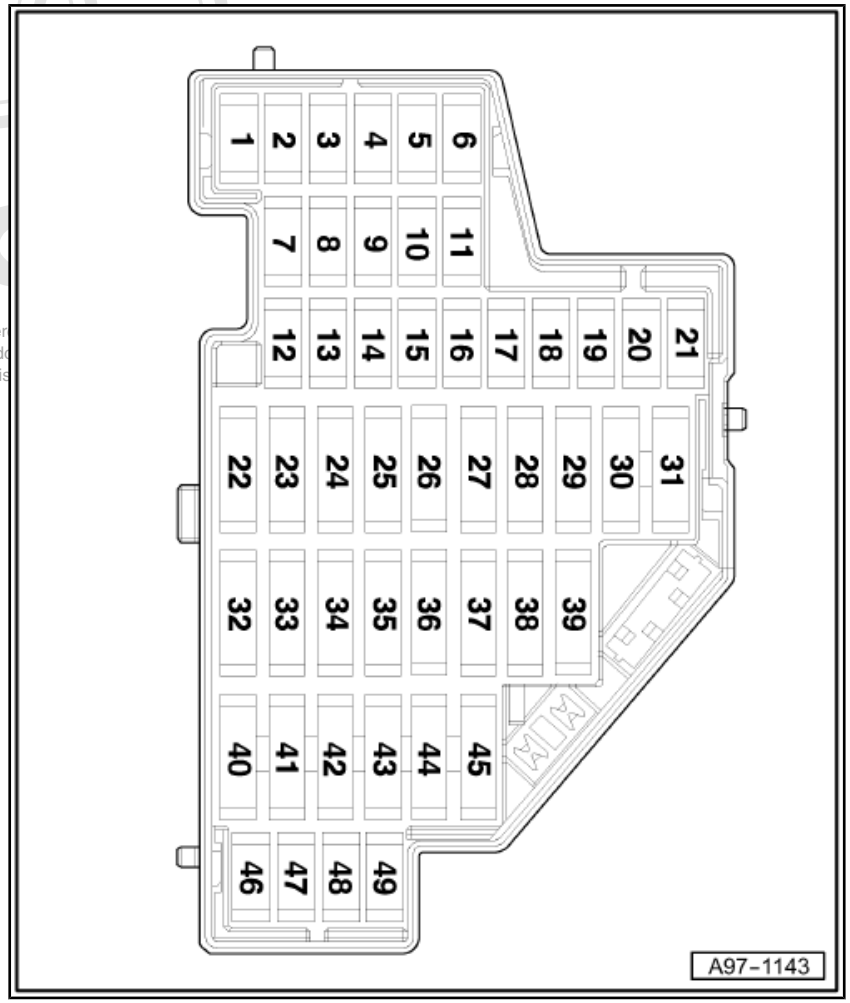
10 A - red

7.5 A - brown

5 A - light-brown

3 A - purple

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1.20 Position of fuses, fuse holder, from model year 2004

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
1	-	Fuse 1 on fuse holder C -SC1-	10 A	-	16-pin connector -T16- (diagnostic connector) Light switch -E1-	15
2	-	Fuse 2 on fuse holder C -SC2-	5 A	-	ABS control unit -J104- TCS and ESP button -E256-	15
3	-	Fuse 3 on fuse holder C -SC3-	10 A	-	Power steering control unit -J500-	15
4	-	Fuse 4 on fuse holder C -SC4-	10 A	-	Heater control unit -J65- [1] Air quality sensor -G238- High pressure sender -G65-	15
5	-	Fuse 5 on fuse holder C -SC5-	5 A	-	Airbag control unit -J234- Seat occupied recognition control unit -J706- applicable from model year 2005	15
5	-	Fuse 5 on fuse holder C -SC5-	5 A	-	Clutch position sender -G476- [1] Brake light switch -F- [1] Brake pedal switch -F63- [1] is dropped from April 2003	15
6	-	Fuse 6 on fuse holder C -SC6-	5 A	-	Data bus diagnostic interface -J533- Function selection switch 2 -E272- [1] Trailer detector control unit -J345-	15
7	-	Fuse 7 on fuse holder C -SC7-	5 A	-	Heater control unit -J65- [1] Headlight range control, control unit -J431- Heated rear left seat switch with regulator -E128- Heated rear right seat switch with regulator -E129-	15
8	-	Fuse 8 on fuse holder C -SC8-	10 A	-	Garage door operating unit -E284- Navigation system with CD drive control unit -J401- [1] Parking aid control unit -J446- Garage door operation control unit -J530- Automatic anti-dazzle interior mirror -Y7-	15
9	-	Fuse 9 on fuse holder C -SC9-	5 A	-	Four-wheel drive control unit -J492-	15
10	-	Fuse 10 on fuse holder C -SC10-	5 A	-	Selector lever -E313- Tiptronic switch -F189- [1]	15
11	-	Fuse 11 on fuse holder C -SC11-	10 A	-	Trailer socket -U10- [1]	15
12	-	Fuse 12 on fuse holder C -SC12-	10 A	-	Driver door control unit -J386- Front passenger door control unit -J387-	30
13	-	Fuse 13 on fuse holder C -SC13-	10 A	-	Brake light switch -F- 16-pin connector -T16- (diagnostic connector)	30
14	-	Fuse 14 on fuse holder C -SC14-	5 A	-	Automatic gearbox control unit -J217- [1]	30

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15	-	Fuse 15 on fuse holder C -SC15-	10 A	-	Onboard supply control unit -J519-	30
16	-	Fuse 16 on fuse holder C -SC16-	10 A	-	Rain and light detector sensor -G397- Heater control unit -J65- [1] Climatronic control unit -J255- Remote control receiver for auxiliary heater -R64- [1]	30
17	-	Fuse 17 on fuse holder C -SC17-	5 A	-	Convenience system central control unit -J393-	30
18	-	Fuse 18 on fuse holder C -SC18-	5 A	-	Selector lever -E313- Tiptronic switch -F189- [1] Parking aid control unit -J446- [1] ABS control unit -J104-	30
19	-	Fuse 19 on fuse holder C -SC19-	10 A	-	Rear left door control unit -J388- Rear right door control unit -J389-	30
20	-	Not assigned	-	-		-
21	-	Not assigned	-	-		-
22	-	Fuse 22 on fuse holder C -SC22-	40 A	-	Fresh air blower control unit -J126-	30
23	-	Fuse 23 on fuse holder C -SC23-	20 A	-	Headlight washer system relay -J39- Headlight washer system pump -V11- is dropped, from model year 2005	30
24	-	Fuse 24 on fuse holder C -SC24-	20 A	-	Cigarette lighter -U1- 12 V socket -U5-	30
25	-	Fuse 25 on fuse holder C -SC25-	30 A	-	Heated rear window -Z1-	30
26	-	Fuse 26 on fuse holder C -SC26-	20 A	-	Electric socket -U-	30
27	-	Fuse 27 on fuse holder C -SC27-	15 A	-	Fuel pump relay -J17- [1] Electric fuel pump 2 relay -J49- [1] Fuel pump control unit -J538-	30
28	-	Not assigned	-	-		-
29	-	Fuse 29 on fuse holder C -SC29-	10 A	-	Motronic control unit -J220- Diesel direct injection system control unit -J248- [1] Simos control unit -J361- [1] Fuel pump control unit -J538- Front passenger side airbag deactivated warning lamp -K145-	15
30	-	Not assigned	-	-		-
31	-	Fuse 31 on fuse holder C -SC31-	5 A	-	Reversing light switch -F4- Mechatronic unit for dual clutch gearbox -J743-	15
32	-	Not assigned	-	-		
33	-	Fuse 33 on fuse holder C -SC33-	25 A	-	Sliding sunroof adjustment control unit -J245-	15
34		Fuse 34 on fuse holder C -SC34-	20 A		Heated rear left seat control unit -J215- [1] Heated rear right seat control unit -J216- [1]	30

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35	-	Fuse 35 on fuse holder C -SC35-	5 A	-	Interior monitoring sensor -G273- Vehicle inclination sender -G384- Alarm horn -H12-	30
36	-	Fuse 36 on fuse holder C -SC36-	10 A	-	Driver seat lumbar support adjustment switch -E176- Front passenger seat lumbar support adjustment switch -E177-	30
37	-	Fuse 37 on fuse holder C -SC37-	20 A	-	Climatronic control unit -J255- Driver seat heating control unit -J726- [1] Front passenger seat heating control unit -J727- [1]	30
38	-	Not assigned	-	-		-
39	-	Not assigned	-	-		-
40	-	Fuse 40 on fuse holder C -SC40-	40 A	-	Fresh air blower switch -E9- [1] for models without air conditioning system only	75
41	-	Fuse 41 on fuse holder C -SC41-	15 A	-	Rear window wiper motor -V12-	75
42	-	Fuse 42 on fuse holder C -SC42-	15 A	-	Windscreen and rear window washer pump -V59-	75
43	-	Not assigned	-	-		
44	-	Fuse 44 on fuse holder C -SC44-	20 A	-	Trailer detector control unit -J345- [1] Supply for turn signal, brake light, left tail light	30
45	-	Fuse 45 on fuse holder C -SC45-	15 A	-	Trailer detector control unit -J345- [1] Supply for rear fog light, reversing light, right tail light	30
46	-	Fuse 46 on fuse holder C -SC46-	5 A	-	Heater control unit -J65- [1] Climatronic control unit -J255- Left washer jet heater element -Z20- Right washer jet heater element -Z21-	75
47	-	Not assigned	-	-		-
48	-	Fuse 48 on fuse holder C -SC48-	10 A	-	Option driving school vehicle	30
49	-	Fuse 49 on fuse holder C -SC49-	10 A	-	Option driving school vehicle	15
49	-	Fuse 49 on fuse holder C -SC49-	5 A	-	option police	15

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[1] not for models with US equipment

1.21 Position of fuses, fuse holder, from model year 2006

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal

1	-	Fuse 1 on fuse holder C -SC1-	10 A	-	Light switch -E1- Fuel pump relay -J17- Engine control unit -J623- [1] Motronic control unit -J220- Diesel direct injection system control unit -J248- [1] Fuel pump control unit -J538- 16-pin connector -T16- (diagnostic connector)	15
2	-	Fuse 2 on fuse holder C -SC2-	5 A	-	ABS control unit -J104- Brake light switch -F- Brake pedal switch -F63-	15
3	-	Fuse 3 on fuse holder C -SC3-	5 A	-	Airbag control unit -J234- Front passenger side airbag deactivated warning lamp -K145-	15
4	-	Fuse 4 on fuse holder C -SC4-	5 A	-	Tyre pressure monitor button -E226- [1] TCS and ESP button -E256- Reversing light switch -F4- High pressure sender -G65- Air quality sensor -G238- Oil level and oil temperature sender -G266- Heater control unit -J162- [1] Heated rear left seat control unit -J215- [1] Heated rear right seat control unit -J216- [1] Driver seat heating control unit -J726- [1] Front passenger seat heating control unit -J727- [1]	15
5	-	Fuse 5 on fuse holder C -SC5-	5 A	-	Headlight range control, control unit -J431-	15
			10 A	-	Headlight range control regulator -E102- [1] Left headlight range control motor -V48- [1] Right headlight range control motor -V49- [1]	15
6	-	Fuse 6 on fuse holder C -SC6-	5 A	-	Function selection switch 2 -E272- [1] Selector lever -E313- Tiptronic switch -F189- [1] Power steering control unit -J500- Data bus diagnostic interface -J533- Mechatronic unit for dual clutch gearbox -J743-	15
7	-	Fuse 7 on fuse holder C -SC7-	5 A	-	Garage door operating unit -E284- Trailer detector control unit -J345- [1] Navigation system with CD drive control unit -J401- [1] Navigation operating electronics control unit -J402- Parking aid control unit -J446- [1] Garage door operation control unit -J530- Automatic anti-dazzle interior mirror -Y7-	15
8	-	Fuse 8 on fuse holder C -SC8-	10 A	-	Trailer socket -U10- [1]	15
9	-	Not assigned	-	-		-

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10	-	Fuse 10 on fuse holder C -SC10-	5 A	-	Seat occupied recognition control unit -J706-	15
11	-	Fuse 11 on fuse holder C -SC11-	5 A	-	Power output module for right headlight -J668-	15
12	-	Fuse 12 on fuse holder C -SC12-	10 A	-	Driver door control unit -J386- Front passenger door control unit -J387-	30
13	-	Fuse 13 on fuse holder C -SC13-	10 A	-	Brake light switch -F- (brake lights) 16-pin connector -T16- (diagnostic connector)	30
14	-	Fuse 14 on fuse holder C -SC14-	5 A	-	Automatic gearbox control unit -J217- [1]	30
15	-	Fuse 15 on fuse holder C -SC15-	10 A	-	Onboard supply control unit -J519-	30
16	-	Fuse 16 on fuse holder C -SC16-	10 A	-	Rain and light detector sensor -G397- Heater control unit -J162- [1] Climatronic control unit -J255- Remote control receiver for auxiliary heater -R64- [1]	30
17	-	Fuse 17 on fuse holder C -SC17-	5 A	-	Convenience system central control unit -J393-	30
18	-	Fuse 18 on fuse holder C -SC18-	5 A	-	Selector lever -E313- Tiptronic switch -F189- [1] Parking aid control unit -J446- [1]	30
19	-	Fuse 19 on fuse holder C -SC19-	10 A	-	Rear left door control unit -J388- Rear right door control unit -J389-	30
20	-	Fuse 20 on fuse holder C -SC20-	5 A	-	ABS control unit -J104- [1]	30
21	-	Not assigned	-	-		-
22	-	Fuse 22 on fuse holder C -SC22-	40 A	-	Fresh air blower control unit -J126-	30
23	-	Fuse 23 on fuse holder C -SC23-	30 A	-	Driver side window regulator motor -V147-	30
24	-	Fuse 24 on fuse holder C -SC24-	20 A	-	Cigarette lighter -U1- 12 V socket -U5-	30
25	-	Fuse 25 on fuse holder C -SC25-	30 A	-	Heated rear window -Z1-	30
26	-	Fuse 26 on fuse holder C -SC26-	20 A	-	Electric socket -U-	30
27	-	Fuse 27 on fuse holder C -SC27-	15 A	-	Electric fuel pump 2 relay -J49- Fuel pump control unit -J538-	30
28	-	Fuse 28 on fuse holder C -SC28-	30 A	-	Rear left window regulator motor -V26- Rear right window regulator motor -V27-	30
29	-	Fuse 29 on fuse holder C -SC29-	10 A	-	Air mass meter -G70- Heater element for crankcase breather -N79-	15

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30	-	Fuse 30 on fuse holder C -SC30-	10 A	-	Injector, cylinder 1 -N30- Injector, cylinder 2 -N31- Injector, cylinder 3 -N32- Injector, cylinder 4 -N33- Injector, cylinder 5 -N83- Injector, cylinder 6 -N84-	15
31	-	Fuse 31 on fuse holder C -SC31-	5 A	-	Four-wheel drive control unit -J492-	15
			20 A	-	Vacuum pump relay -J57- [1]	15
32	-	Fuse 32 on fuse holder C -SC32-	30 A	-	Headlight washer system pump -V11- Headlight washer system relay -J39-	30
33	-	Fuse 33 on fuse holder C -SC33-	25 A	-	Sliding sunroof adjustment control unit -J245-	30
34	-	Fuse 34 on fuse holder C -SC34-	20 A	-	Heated rear left seat control unit -J215- [1] Heated rear right seat control unit -J216- [1]	30
35	-	Fuse 35 on fuse holder C -SC35-	5 A	-	Interior monitoring sensor -G273- Vehicle inclination sender -G384- Alarm horn -H12-	30
36	-	Fuse 36 on fuse holder C -SC36-	10 A	-	Driver seat lumbar support adjustment switch -E176- Front passenger seat lumbar support adjustment switch -E177-	30
37	-	Fuse 37 on fuse holder C -SC37-	20 A	-	Climatronic control unit -J255- Driver seat heating control unit -J726- [1] Front passenger seat heating control unit -J727- [1] Front left seat heating -Z45- Front right seat heating -Z46-	30
38	-	Fuse 38 on fuse holder C -SC38-	30 A	-	Front passenger side window regulator motor -V148-	30
39	-	Fuse 39 on fuse holder C -SC39-	20 A	-	Multifunction switch -F125- [1] Automatic gearbox control unit -J217- [1]	15
40	-	Fuse 40 on fuse holder C -SC40-		-	Fresh air blower switch -E9- [1] for models without air conditioning system only	75
41	-	Fuse 41 on fuse holder C -SC41-	15 A	-	Rear window wiper motor -V12-	75
42	-	Fuse 42 on fuse holder C -SC42-	15 A	-	Windscreen and rear window washer pump -V59-	75
43	-	Not assigned	-	-		
44	-	Fuse 44 on fuse holder C -SC44-	20 A	-	Trailer detector control unit -J345- [1]	30
45	-	Fuse 45 on fuse holder C -SC45-	15 A	-	Trailer detector control unit -J345- [1]	30

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46	-	Fuse 46 on fuse holder C -SC46-	5 A	-	Heater control unit -J162- [1] Climatronic control unit -J255- Left washer jet heater element -Z20- Right washer jet heater element -Z21-	75
47	-	Fuse 47 on fuse holder C -SC47-	5 A	-	Power output module for left headlight -J667-	15
48	-	Fuse 48 on fuse holder C -SC48-	10 A	-	Electric socket -U- [1] for driving school only	30
49	-	Fuse 49 on fuse holder C -SC49-	5 A	-	Special vehicle fuse 6 -S296- [1] Footwell light switch -E295- [1] Warning buzzer switch -E296- [1]	15

[1] not for models with US equipment

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1.22 Position of fuses, fuse holder, from model year 2007

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
1	-	Fuse 1 on fuse holder C -SC1-	10 A	-	Light switch -E1- Headlight range control regulator -E102- [1] Air mass meter -G70- (BKC, BXE, AZV, BKD, BLS, BMM, BMN, BPU, BPT, BYZ, BWA, BPY, BHZ, BZB, CAWB, CBFA, BUY, CDAA, CCZA, CCTA, CDLA, CDLC, CAYB, CAYC, BZC, CBEA) Trailer detector control unit -J345- [1] Headlight range control, control unit -J431- Heater element for crankcase breather -N79- (BSE, BSF, BKC, BXE, AZV, BKD, BLS, BMM, BMN, BUB, BUY, CCSA, CBBB, CBAB, CBAA, CBRA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB) 16-pin connector -T16- (diagnostic connector) Left headlight range control motor -V48- [1] Right headlight range control motor -V49- [1]	15
1	-	Fuse 1 on fuse holder C -SC1-	10 A	-	Air mass meter -G70- (CBBB, CBAB, CBAA) for models without stop/start system only applicable from model year 2010	15
1	-	Fuse 1 on fuse holder C -SC1-	10 A	-	Stop/start system button -E693- for models with stop/start system only no longer fitted, phased in model year 2010	15

2	-	Fuse 2 on fuse holder C -SC2-	10 A	-	Engine control units -J...- Fuel pump relay -J17- (BSE, BSF, BUB, CCSA, CBRA) ABS control unit -J104- Current supply relay for Simos control unit -J363- (BSE, BSF, CCSA) [1] Power steering control unit -J500- Data bus diagnostic interface -J533- Fuel pump control unit -J538- (BPU, BYT, BPT, BLF, BVY, BVZ, BPY, BWA, BHZ, CAXC, BZB, CAWB, CBFA, CDAA, CCZA, CCTA, CDLC, CDLA, BZC) Selector lever sensors control unit -J587- Mechatronic unit for dual clutch gearbox -J743-	15
2	-	Fuse 2 on fuse holder C -SC2-	10 A	-	Brake light switch -F- Brake pedal switch -F63- is dropped, from model year 2010	15
2	-	Fuse 2 on fuse holder C -SC2-	10 A	-	Tiptronic switch -F189- [1] Four-wheel drive control unit -J492- is dropped, from model year 2009	15
2	-	Fuse 2 on fuse holder C -SC2-	10 A	-	Starter relay 1 -J906- Starter relay 2 -J907- Automatic anti-dazzle interior mirror relay -J910- for models with stop/start system only applicable from model year 2010	15
3	-	Fuse 3 on fuse holder C -SC3-	5 A	-	Airbag control unit -J234- Front passenger side airbag deactivated warning lamp -K145-	15
4	-	Fuse 4 on fuse holder C -SC4-	5 A	-	Heated rear left seat switch with regulator -E128- [1] Heated rear right seat switch with regulator -E129- [1] Tyre pressure monitor button -E226- [1] TCS and ESP button -E256- Garage door operating unit -E284- Reversing light switch -F4- High pressure sender -G65- Air quality sensor -G238- Oil level and oil temperature sender -G266- Heater control unit -J162- Climatronic control unit -J255- Air conditioning system control unit -J301- [1] Navigation system with CD drive control unit -J401- [1] Parking aid control unit -J446- Garage door operation control unit -J530- Seat occupied recognition control unit -J706- Driver seat heating control unit -J726- [1] Front passenger seat heating control unit -J727- [1] Left washer jet heater element -Z20- Right washer jet heater element -Z21-	15
4	-	Fuse 4 on fuse holder C -SC4-	5 A	-	Automatic anti-dazzle interior mirror -Y7- is dropped, from model year 2010	15

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4	-	Fuse 4 on fuse holder C -SC4-	5 A	-	Automatic anti-dazzle interior mirror -Y7- for models without stop/start system only applicable from model year 2010	15
4	-	Fuse 4 on fuse holder C -SC4-	5 A	-	Voltage stabiliser -J532- for models with stop/start system only applicable from model year 2010	15
4	-	Fuse 4 on fuse holder C -SC4-	5 A	-	Stop/start system button -E693- for models with stop/start system only phased-in in model year 2010	15
5	-	Fuse 5 on fuse holder C -SC5-	5 A	-	Power output module for left headlight -J667-	15
6	-	Fuse 6 on fuse holder C -SC6-	5 A	-	Power output module for right headlight -J668-	15
7	-	Not assigned	-	-		-
8	-	Fuse 8 on fuse holder C -SC8-	5 A	-	Control unit in dash panel insert -J285- applicable from model year 2010	30
9	-	Fuse 9 on fuse holder C -SC9-	15 A	-	Navigation operating electronics control unit -J402- Control unit with display for radio and navigation system -J503- Radio -R- 8-pin connector -T8- (preparation for radio) [1] applicable from model year 2010	30
10	-	Fuse 10 on fuse holder C -SC10-	7.5 A	-	Navigation system tuner for TV -J415- [1] Telephone transmitter and receiver unit -R36- Satellite radio -R146- [2] Connection for external audio source -R199- 18-pin connector -T18a- (VDA interface) [1] applicable from model year 2010	30
11	-	Fuse 11 on fuse holder C -SC11-	10 A	-	Automatic anti-dazzle interior mirror relay -J910- Automatic anti-dazzle interior mirror -Y7- for models with stop/start system only applicable from model year 2010	30
12	-	Fuse 12 on fuse holder C -SC12-	10 A	-	Driver door control unit -J386- Front passenger door control unit -J387-	30
13	-	Fuse 13 on fuse holder C -SC13-	10 A	-	Rear left door control unit -J388- Rear right door control unit -J389-	30
13	-	Fuse 13 on fuse holder C -SC13-	10 A	-	Convenience system central control unit -J393- is dropped, from model year 2010	30
14	-	Fuse 14 on fuse holder C -SC14-	10 A	-	ABS control unit -J104- Selector lever sensors control unit -J587-	30
14	-	Fuse 14 on fuse holder C -SC14-	10 A	-	Tiptronic switch -F189- [1] Automatic gearbox control unit -J217- [1] Parking aid control unit -J446- is dropped, from model year 2009	30

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15	-	Fuse 15 on fuse holder C -SC15-	10 A	-	Front interior light -W- Front interior light -W1- Rear interior light -W43-	30
16	-	Fuse 16 on fuse holder C -SC16-	10 A	-	Rain and light detector sensor -G397- Heater control unit -J162- Climatronic control unit -J255- Air conditioning system control unit -J301- [1] Tyre pressure monitor control unit -J502- [2] Remote control receiver for auxiliary heater -R64- [1] 16-pin connector -T16- (diagnostic connector)	30
16	-	Fuse 16 on fuse holder C -SC16-	10 A	-	Light switch -E1- applicable from model year 2010	30
17	-	Fuse 17 on fuse holder C -SC17-	5 A	-	Interior monitoring sensor -G273- [1] Vehicle inclination sender -G384- [1] Alarm horn -H12-	30
18	-	Fuse 18 on fuse holder C -SC18-	5 A	-	Engine control unit -J623- (diagnosis wire) for models with engine code CBFA only is dropped from model year 2010	50
18	-	Fuse 18 on fuse holder C -SC18-	5 A	-	Onboard supply control unit -J519- (diagnosis wire) Voltage stabiliser -J532- (diagnosis wire) Engine control unit -J623- (diagnosis wire) for models with stop/start system only applicable from model year 2010	50
18	-	Fuse 18 on fuse holder C -SC18-	5 A	-	Onboard supply control unit -J519- (diagnosis wire) Engine control unit -J623- (diagnosis wire) for models with engine code CBFA only applicable from model year 2010	50
19	-	Fuse 19 on fuse holder C -SC19-	10 A	-	Four-wheel drive control unit -J492- applicable from model year 2009	15
20	-	Fuse 20 on fuse holder C -SC20-	5 A	-	Electronically controlled damping control unit -J250- applicable from model year 2009	15
21	-	Not assigned	-	-		-
22	-	Fuse 22 on fuse holder C -SC22-	40 A	-	Fresh air blower control unit -J126- fresh air blower -V2-	30
23	-	Fuse 23 on fuse holder C -SC23-	30 A	-	Driver side window regulator motor -V147-	30
24	-	Fuse 24 on fuse holder C -SC24-	20 A	-	Cigarette lighter -U1-	30
25	-	Fuse 25 on fuse holder C -SC25-	30 A	-	Heated rear window -Z1-	30
26	-	Fuse 26 on fuse holder C -SC26-	20 A	-	Electric socket -U-	30

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27	-	Fuse 27 on fuse holder C -SC27-	15 A	-	Fuel pump relay -J17- (BSE, BSF, CCSA, CBBB, CBAB, CBAA, BKC, BXE, AZV, BKD, BLS, BMM, BUY, BMN, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB) Fuel pump control unit -J538- (BPU, BYT, BPT, BWA, BPY, BHZ, CAXC, BZB, CAWB, CCTA, CBFA, BLF, BVY, BVZ, CDAA, CCZA, CDLA, CDLC, BZC, CBZB)	30
27	-	Fuse 27 on fuse holder C -SC27-	15 A	-	Electric fuel pump 2 relay -J49- (BSE, BSF, BUB, CCSA, CBRA) applicable from November 2006, for models with auxiliary heater only, models with engine codes BKC, BXE, AZV, BKD, BLS, BMM, BUY, BMN, CBBB, CBAB, CBAA, CAYB, CAYC, CFFA, CFFB, CFGB	30
27	-	Fuse 27 on fuse holder C -SC27-	15 A	-	Relay for supplementary fuel pump -J832- (CBBB, CBAB, CBAA, CBEA, CFFA, CFFB, CFGB) Supplementary fuel pump -V393- (CBBB, CBAB, CBAA, CBEA, CFFA, CFFB, CFGB)	30
28	-	Fuse 28 on fuse holder C -SC28-	30 A	-	Rear left window regulator motor -V26- Rear right window regulator motor -V27-	30
29	-	Not assigned	-	-		-
30	-	Fuse 30 on fuse holder C -SC30-	20 A	-	Multifunction switch -F125- [1] Automatic gearbox control unit -J217- [1] is dropped from model year 2009	15
31	-	Fuse 31 on fuse holder C -SC31-	20 A	-	Vacuum pump for brakes -V192- (CCSA, BSE, BSF) [1]	15
32	-	Fuse 32 on fuse holder C -SC32-	30 A	-	Headlight washer system pump -V11-	30
33	-	Fuse 33 on fuse holder C -SC33-	20 A	-	Sliding sunroof adjustment control unit -J245-	30
34	-	Fuse 34 on fuse holder C -SC34-	20 A	-	Heated rear left seat control unit -J215- [1] Heated rear right seat control unit -J216- [1]	30
35	-	Not assigned	-	-		
36	-	Fuse 36 on fuse holder C -SC36-	10 A	-	Driver seat lumbar support adjustment switch -E176- Front passenger seat lumbar support adjustment switch -E177-	30
37	-	Fuse 37 on fuse holder C -SC37-	20 A	-	Climatronic control unit -J255- Driver seat heating control unit -J726- [1] Front passenger seat heating control unit -J727- [1]	30
38	-	Fuse 38 on fuse holder C -SC38-	30 A	-	Front passenger side window regulator motor -V148-	30
39	-	Fuse 39 on fuse holder C -SC39-	5 A	-	Interface control unit for vehicle location system -J843- (interface for special functions)	30
39	-	Fuse 39 on fuse holder C -SC39-	25 A	-	Control unit with display for radio and navigation system -J503- [1] for models with radio navigation system (models for Japan) only applicable from model year 2010	30
40	-	Fuse 40 on fuse holder C -SC40-	40 A	-	Fresh air blower switch -E9- [1] fresh air blower -V2- [1] is dropped from model year 2009	75

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41	-	Fuse 41 on fuse holder C -SC41-	15 A	-	Rear window wiper motor -V12- is dropped, from model year 2009	75
42	-	Fuse 42 on fuse holder C -SC42-	15 A	-	Windscreen and rear window washer pump -V59- is dropped, from model year 2009	75
40	-	Fuse 40 on fuse holder C -SC40-	40 A	-	Starter -B- applicable from model year 2009	15
41	-	Fuse 41 on fuse holder C -SC41-	15 A	-	Rear window wiper motor -V12- applicable from model year 2009	15
42	-	Fuse 42 on fuse holder C -SC42-	15 A	-	Windscreen and rear window washer pump -V59- applicable from model year 2009 is dropped from model year 2010	15
43	-	Fuse 43 on fuse holder C -SC43-	20 A	-	Convenience system central control unit -J393- is dropped, from model year 2010	30
43	-	Fuse 43 on fuse holder C -SC43-	20 A	-	Onboard supply control unit -J519- applicable from model year 2010	30
44	-	Fuse 44 on fuse holder C -SC44-	20 A	-	Trailer detector control unit -J345- [1]	30
45	-	Fuse 45 on fuse holder C -SC45-	15 A	-	Trailer detector control unit -J345- [1] is dropped from November 2006	30
45	-	Fuse 45 on fuse holder C -SC45-	20 A	-	Trailer detector control unit -J345- [1] applicable from November 2006	30
46	-	Fuse 46 on fuse holder C -SC46-	10 A	-	Trailer socket -U10- [1]	15
47	-	Fuse 47 on fuse holder C -SC47-	5 A	-	18-pin connector -T18a- (VDA interface) [1]	15
47	-	Fuse 47 on fuse holder C -SC47-	5 A	-	Aerial amplifier for mobile telephone -R86- [1] applicable from model year 2010	15
48	-	Fuse 48 on fuse holder C -SC48-	10 A	-	Electric socket -U- (driving school vehicle) [1]	30
49	-	Fuse 49 on fuse holder C -SC49-	5 A	-	Buzzer and gong -H3- (driving school vehicle) [1] Special vehicle fuse 6 -S296- (German special police, doctor on call vehicle) [1] Driving school vehicle footwell illumination -W56- [1]	15

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[1] not for models with US equipment

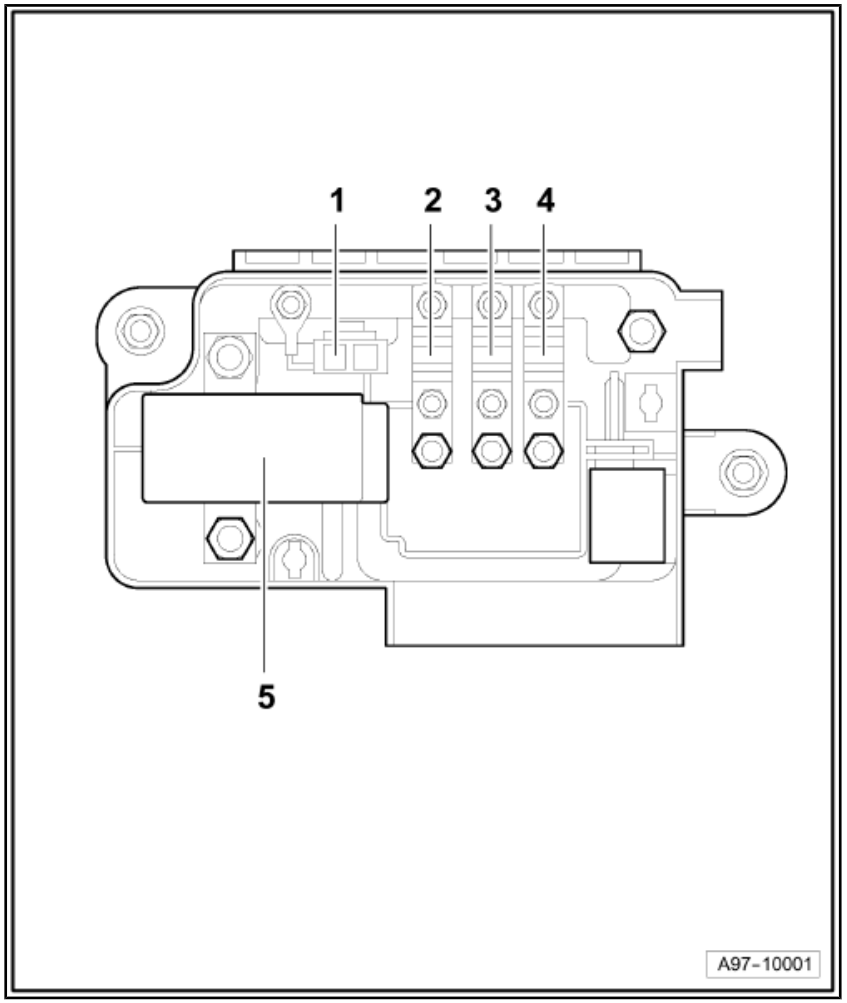
[2] only models with USA equipment

1.23 Main fuse box: Location Fuse holder D -SD- In luggage compartment, rear right

1.23.1 Fuse locations:

Position of fuses on main fuse box, from model year 2004 ⇒ page 48

Position of fuses on main fuse box, from model year 2006 ⇒ page 48



1.24 Position of fuses, main fuse box, from model year 2004

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
1	-	Fuse 1 on fuse holder D -SD1-	5 A	-	Onboard supply control unit -J519-	30
2	-	Fuse 2 on fuse holder D -SD2-	125 A	-	Supply for main fuse box, electronics box, relay and fuse carrier, electronics box	30
3	-	Fuse 3 on fuse holder D -SD3-	80 A	-	Supply for main fuse box, electronics box, relay and fuse carrier, electronics box	30
4	-	Fuse 4 on fuse holder D -SD4-	30 A	-	Amplifier -R12- for models with Bose sound system only	30

1.25 Position of fuses, main fuse box, from model year 2006

No.		Designation in Wiring Diagram	Nominal value		Function/component	Terminal
1	-	Fuse 1 on fuse holder D -SD1-	5 A	-	Onboard supply control unit -J519-	30
2	-	Fuse 2 on fuse holder D -SD2-	125 A	-	Supply for main fuse box, electronics box high, relay and fuse carrier, electronics box high	30
3	-	Fuse 3 on fuse holder D -SD3-	80 A	-	Supply for main fuse box, electronics box high, relay and fuse carrier, electronics box high	30
4	-	Fuse 4 on fuse holder D -SD4-	30 A	-	Amplifier -R12- for models with Bose sound system only is dropped from November 2005	30
			50 A	-	Option doctor is dropped from November 2005	
4	-	Fuse 4 on fuse holder D -SD4-	30 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC19- applicable from November 2005	30
4	-	Fuse 4 on fuse holder D -SD4-	30 A	-	Supply for the fuses: -SC12- up to -SC17- , -SC43- applicable from May 2006	30

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1.26 Fuses on left under dash panel

Position of fuses, from model year 2004

B - Window regulator single fuse -S37- - 30 A

Position of fuses, from model year 2005

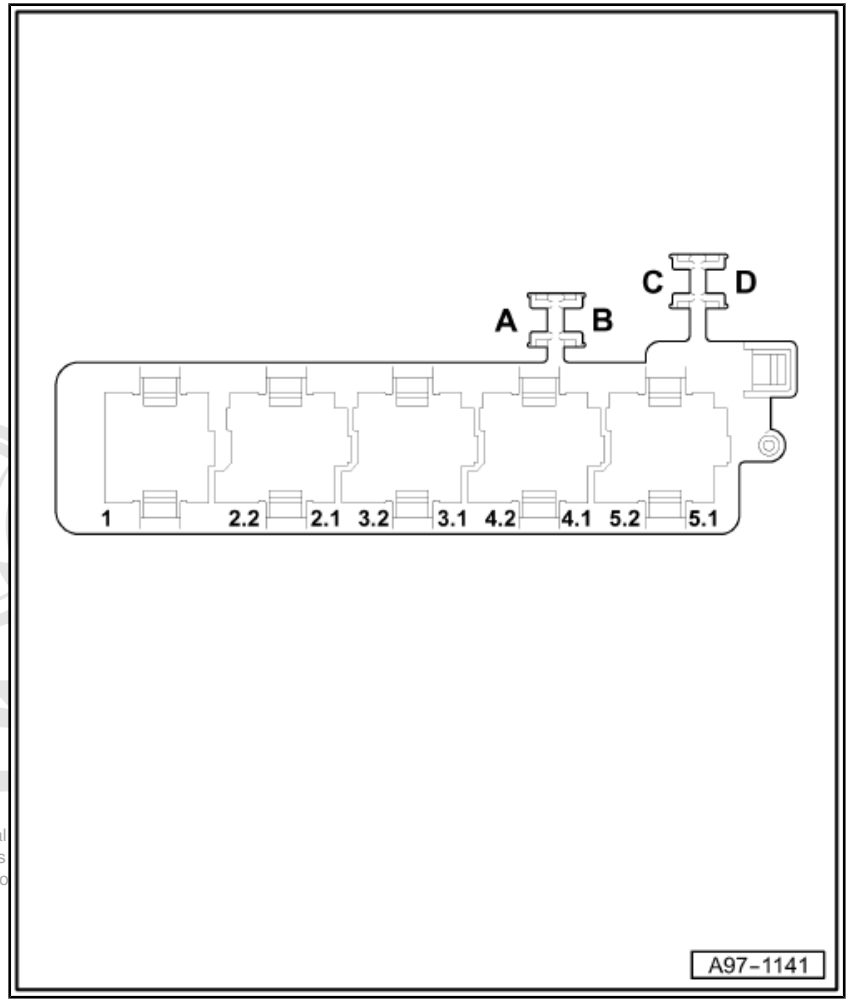
A - Window regulator single fuse 2 -S280- - 30 A

B - Window regulator single fuse -S37- - 30 A

C - Fuse 1 -S131- - 30 A

Position of fuses, from model year 2006

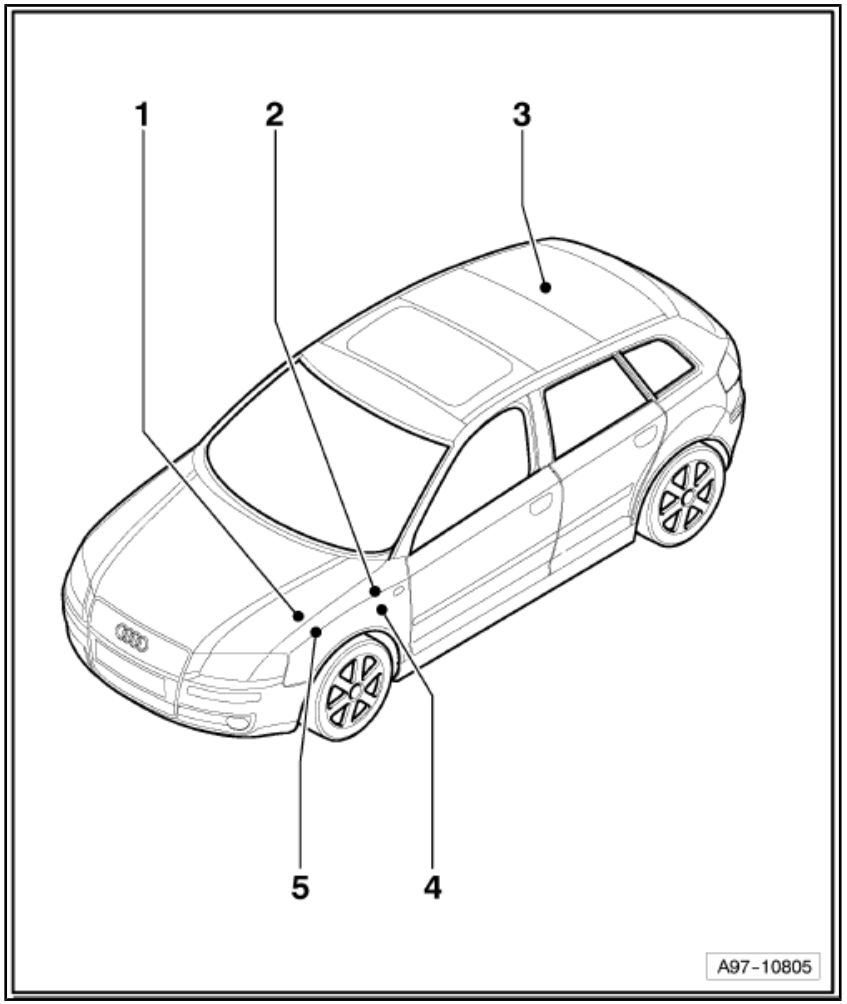
C - Fuse 1 -S131- - 30 A



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1 Relay

1.1 Overview of relay



1 -
Relay carrier on electronics box

- ❑ in engine compartment, left
- ❑ Components: -J271- , -J317- , -J363- , -J757- , -J329-
- ❑ Position of relays on electronics box low, from model year 2006 ⇒ page 2
- ❑ Position of relays on electronics box high, from model year 2004 ⇒ page 3
- ❑ Position of relays on electronics box high, from model year 2006 ⇒ page 4

2 -
Relay carrier on left under dash panel

- ❑ Components: -J17- , -J49- , -J359- , -J682- , -J360- , -J663- , -J151- , -J39- , -J662- , -J832- , -J906- , -J907- , -J910-
- ❑ Position of relays, from model year 2004 ⇒ page 7
- ❑ Position of relays, from model year 2009 ⇒ page 10

3 -
Position of relays on main fuse box, in luggage compartment, rear right

- ❑ Components: -J655- , -N253-
- ❑ Position of relays, from model year 2004 ⇒ page 14

4 -
Relay carrier on onboard power supply control unit

- ❑ Left under dash panel
- ❑ Components: -J681- , -J9- , -J413- , -J59- , -J729- , -J689- , -J730-
- ❑ Position of relays, from model year 2004 ⇒ page 5
- ❑ Position of relays, from model year 2010 ⇒ page 6

5 -
Relay carrier under electronics box

- ❑ Components: -J179- , -J299-
- ❑ Position of relays, from model year 2004 ⇒ page 12

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1.2 Position of relays on electronics box low, from model year 2006

1 - Motronic current supply relay -J271-

- ❑ Slot A 1
- ❑ for models with engine codes BLF, BLR, BLY, BVY, BVZ, BPT, BPU, BYT, CAXC, BZB, CAWB, CBFA, CCTA, CDAA, CCZA, CBZB only

1 - Terminal 30 voltage supply relay -J317-

- ❑ Slot A 1
- ❑ for models with engine codes BKC, BXE, AZV, BKD, BLS, BMM, BUY, BMN, CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB only

1 - Current supply relay for Simos control unit -J363-

- ❑ Slot A 1
- ❑ for models with engine codes BSE, BSF, CCSA only

2 - Wiring bridges, Automatic glow period control unit

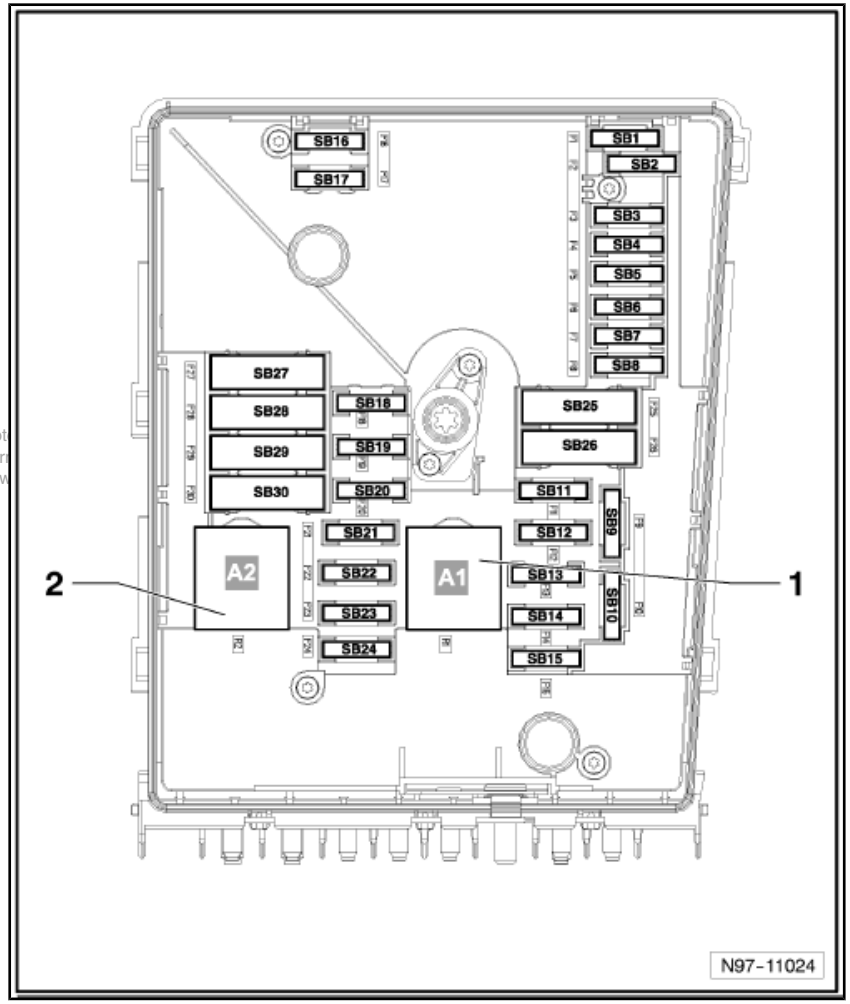
- ❑ Slot A 2
- ❑ for models with engine codes BKC, BXE, AZV, BKD, BLS, BMM, BUY, BMN, CBBB, CBAB, CBAA, CAYB, CAYC, CFFA, CFFB, CFGB only

2 - Secondary air pump relay -J299-

- ❑ Slot A 2
- ❑ for models with engine codes BSE, CBFA, CCSA only

2 - Engine component current supply relay -J757-

- ❑ Slot A 2
- ❑ for models with engine codes BPT, BPU, BYT, BZB, CAWB, CCTA, CAXC, CDAA, CCZA, CBZB only
- ❑ for models from model year 2008, with engine code CBFA ⇒ page 8
- ❑ for models from model year 2009, with engine code CBFA ⇒ page 11



1.3 Position of relays on electronics box high, from model year 2004

1 - Terminal 15 voltage supply relay -J329-
- ❑ Slot R1

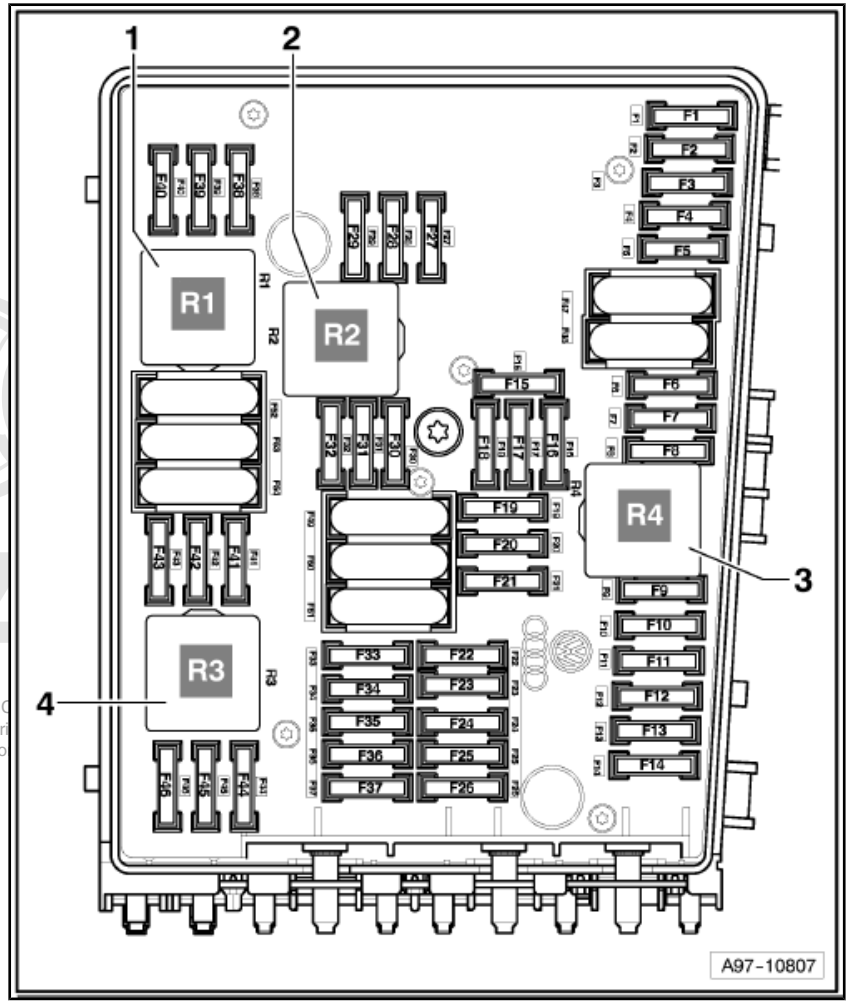
2 - Terminal 50 voltage supply relay -J682-
- ❑ Slot R2

3 - Motronic current supply relay -J271-
- ❑ Slot R4

3 - Terminal 30 voltage supply relay -J317-
- ❑ Slot R4
- ❑ not for models with US equipment

3 - Current supply relay for Simos control unit -J363-
- ❑ Slot R4
- ❑ not for models with US equipment

4 - Fuel pump relay -J17-
- ❑ Slot R3



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1.4 Position of relays on electronics box high, from model year 2006

1 - Motronic current supply relay -J271-

- ❑ Slot R1
- ❑ for models with engine codes AXX, BPY, BWA, BHZ, BUB, BMJ, CDLA, CDLC, CBRA, BZC only

2 - Continued coolant circulation relay -J151-

- ❑ Slot R2
- ❑ for models with engine codes AXX, BPY, BWA, BHZ, BUB, BMJ, CDLA, CDLC, CBRA, BZC only

3 - Fuel pump relay -J17-

- ❑ Slot R4
- ❑ for models with engine codes BUB, BMJ, CBRA only

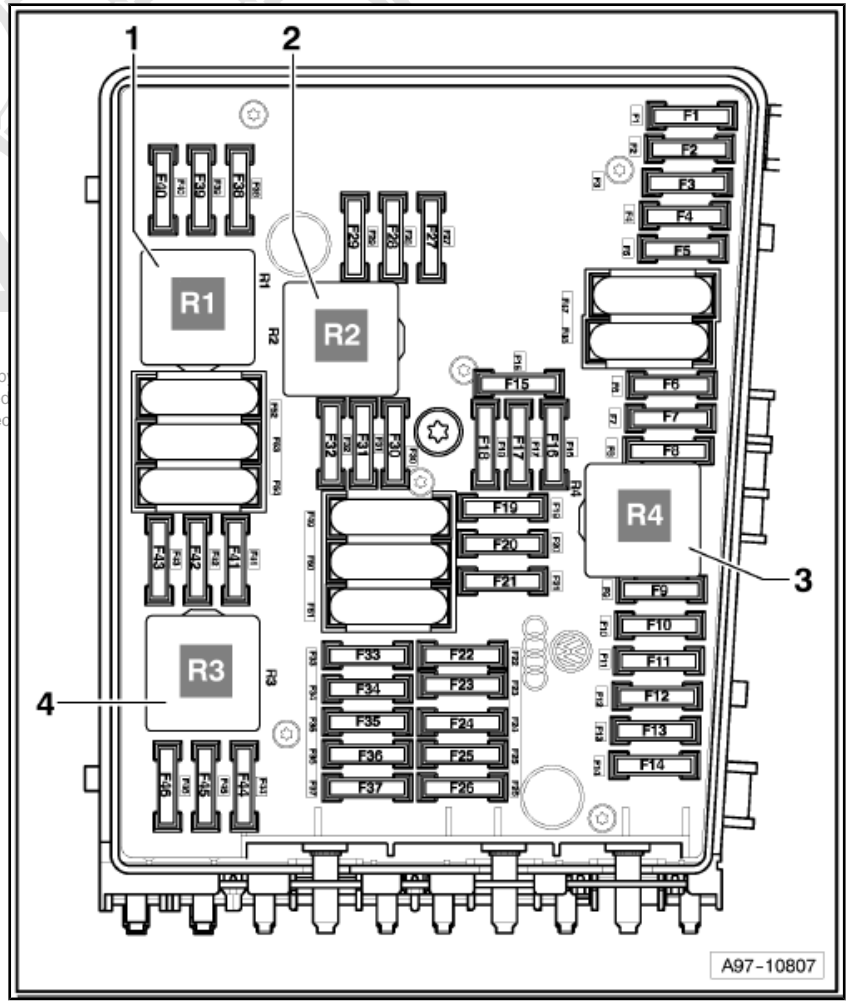
3 - Engine component current supply relay -J757-

- ❑ Slot R4
- ❑ for models with engine codes AXX, BPY, BWA, BHZ, CDLA, CDLC, BZC only

4 - Not assigned

- ❑ Slot R3

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1.5 Relay positions relay carrier on onboard supply control unit, under left dash panel, from model year 2004

1 - Terminal 15 voltage supply relay 2 -J681-
- ❑ Slot B 1

2 - Not assigned
- ❑ Slot B 2

3 - Heated rear window relay -J9-
- ❑ Slot B 5

4 - Horn relay -J413-
- ❑ Slot B 6

5 - X-contact relief relay -J59-
- ❑ Slot B 9

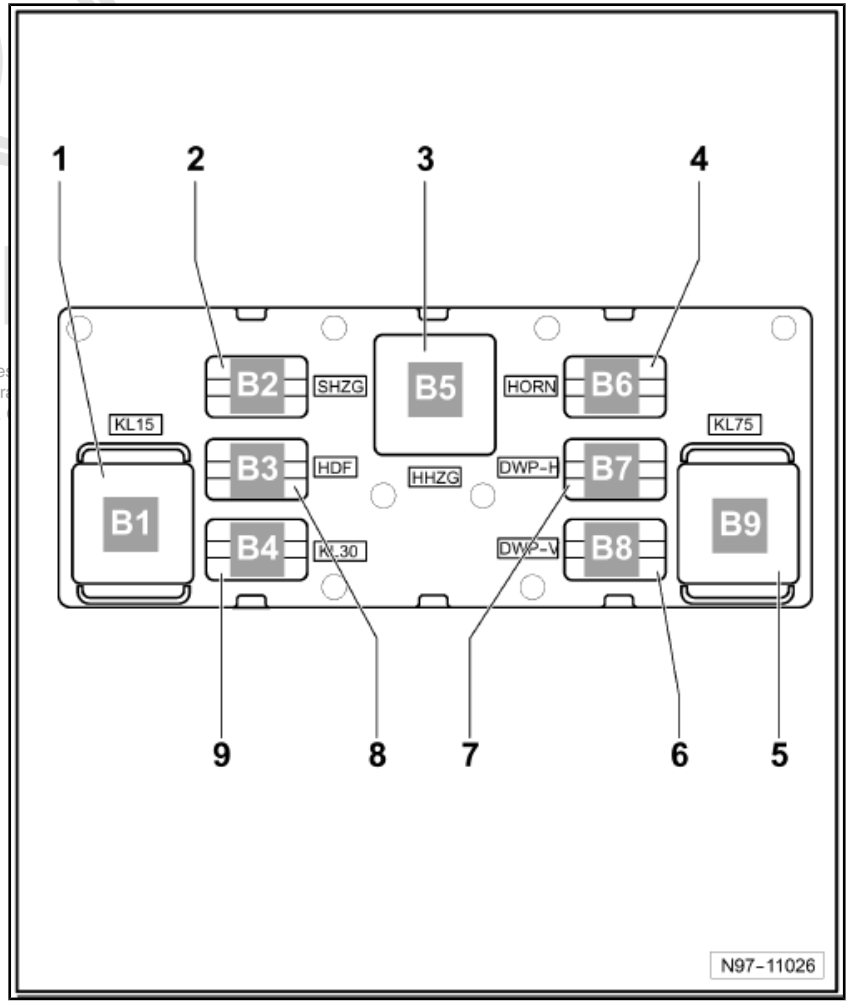
6 - Double washer pump relay 2 -J730-
- ❑ Slot B 8

7 - Double washer pump relay 1 -J729-
- ❑ Slot B 7

8 - Not assigned
- ❑ Slot B 3

9 - Terminal 15 voltage supply relay 2 -J689-
- ❑ Slot B 4

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1.6 Relay positions relay carrier on onboard supply control unit, under left dash panel, from model year 2010

1 - Terminal 15 voltage supply relay 2 -J681-

2 - Heated rear window relay -J9-

3 - Horn relay -J413-

3 - Headlight washer system relay -J39-

4 - X-contact relief relay -J59-

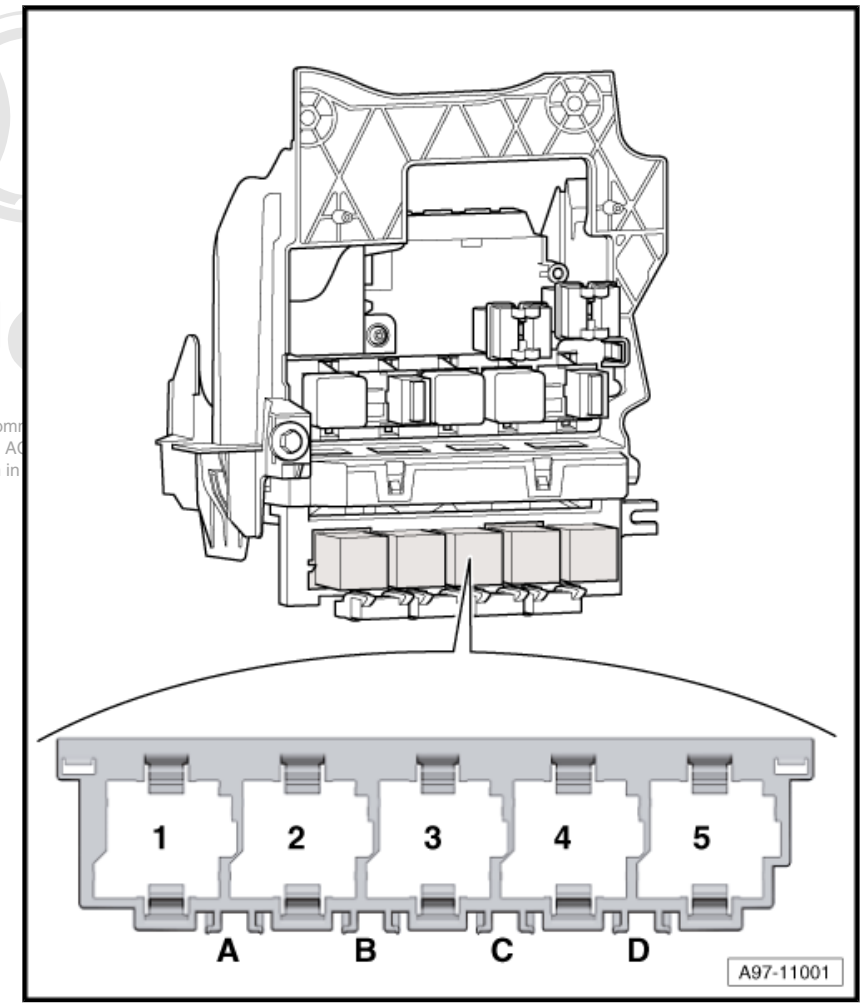
5 - High heat output relay -J360-

- ❑ for models with auxiliary air heater only

Note

-J39- and -J413- are mini-relays and can be found on a relay connector position.

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1.7 Relay positions under left dash panel, from model year 2004

1 - Headlight washer system relay -J39-

2 - Fuel pump relay -J17-

- ❑ Slot 2.1
- ❑ for models with diesel engines only
- ❑ is dropped, from model year 2006
- ❑ for models from model year 2004, engine codes BGU, BDB, BMJ, ⇒ page 3
- ❑ for models from model year 2006, engine codes BUB, BMJ, ⇒ page 4

2 - Electric fuel pump 2 relay -J49-

- ❑ Slot 2.1
- ❑ for models with petrol engines only
- ❑ not for models with engines FSI
- ❑ is dropped, from model year 2006

2 - Fuel pump relay -J17-

- ❑ Slot 2.1
- ❑ applicable from May 2005
- ❑ is dropped from August 2005
- ❑ for models with engine code BSE, BSF only

2 - Electric fuel pump 2 relay -J49-

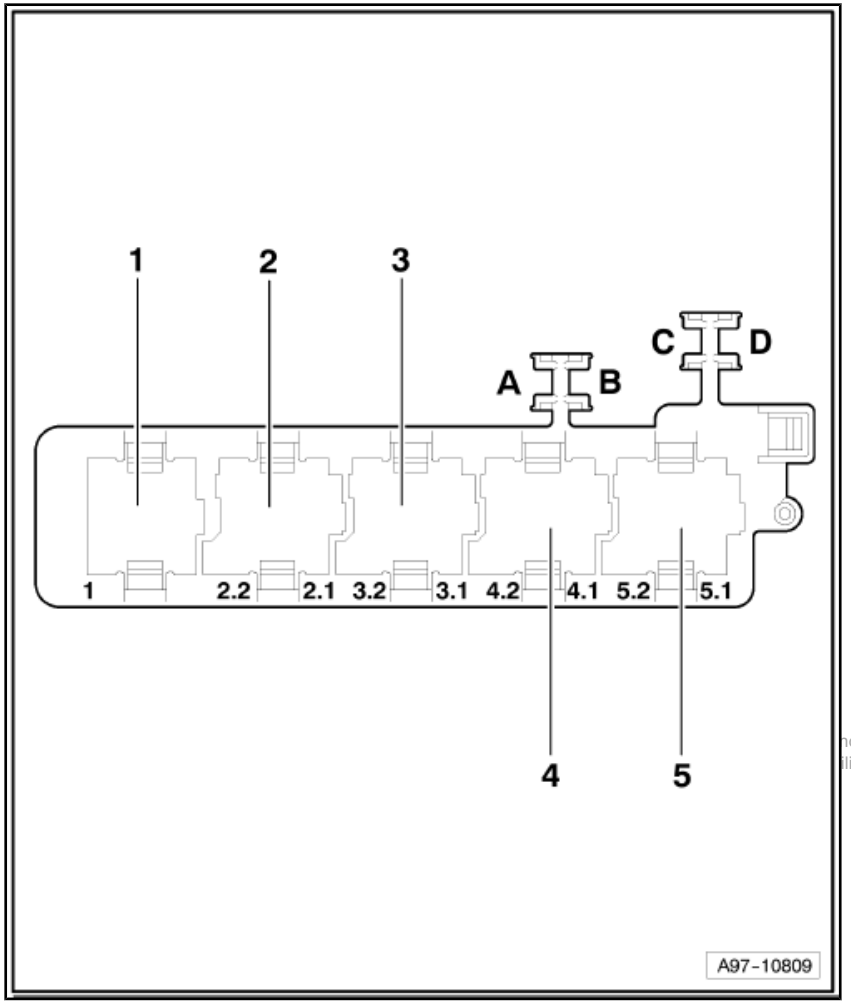
- ❑ Slot 2.2
- ❑ for models with petrol engines only
- ❑ not for models with engines FSI
- ❑ applicable from May 2005
- ❑ is dropped from August 2005

2 - Fuel pump relay -J17-

- ❑ Slot 2.2
- ❑ applicable from May 2005
- ❑ is dropped from August 2005
- ❑ for models with diesel engines only

2 - Low heat output relay -J359-

- ❑ applicable from November 2006, only for models with auxiliary air heater
- ❑ for models with diesel engines only



3 - Terminal 50 voltage supply relay -J682-

- ❑ applicable from May 2005
- ❑ is dropped from August 2005
- ❑ for models from model year 2004 ⇒ page 3

3 - High heat output relay -J360-

- ❑ applicable from November 2006, only for models with auxiliary air heater
- ❑ for models with diesel engines only

4 - Terminal 50 voltage supply relay -J682-

- ❑ applicable from August 2005

4 - Engine power reduction relay 2 -J663-

- ❑ applicable from model year 2005
- ❑ is dropped, from model year 2006

5 - Electric fuel pump 2 relay -J49-

- ❑ Slot 5.1
- ❑ not for models with US equipment
- ❑ applicable from November 2006, only for models with auxiliary heater
- ❑ for models with diesel engines only

5 - Continued coolant circulation relay -J151-

- ❑ Slot 5.1
- ❑ applicable from model year 2007
- ❑ for models with engine codes BPT, BPU, BYT, BZB, CAWB, CBFA, CCTA only
- ❑ for models from model year 2004, ⇒ page 12
- ❑ for models from model year 2006, engine codes AXX, BPY, BWA, BHZ, BUB, BMJ, ⇒ page 4

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5 - Fuel pump relay -J17-

- ❑ Slot 5.1
- ❑ applicable from August 2005
- ❑ for models with engine code BSE, BSF only

5 -
Engine component current supply relay -J757-

- ❑ Slot 5.2
- ❑ applicable from model year 2007
- ❑ for models with engine code CBFA only

5 - Electric fuel pump 2 relay -J49-

- ❑ Slot 5.2

- ❑ applicable from August 2005
- ❑ for models with petrol engines only
- ❑ not for models with engines FSI

5 - Fuel pump relay -J17-

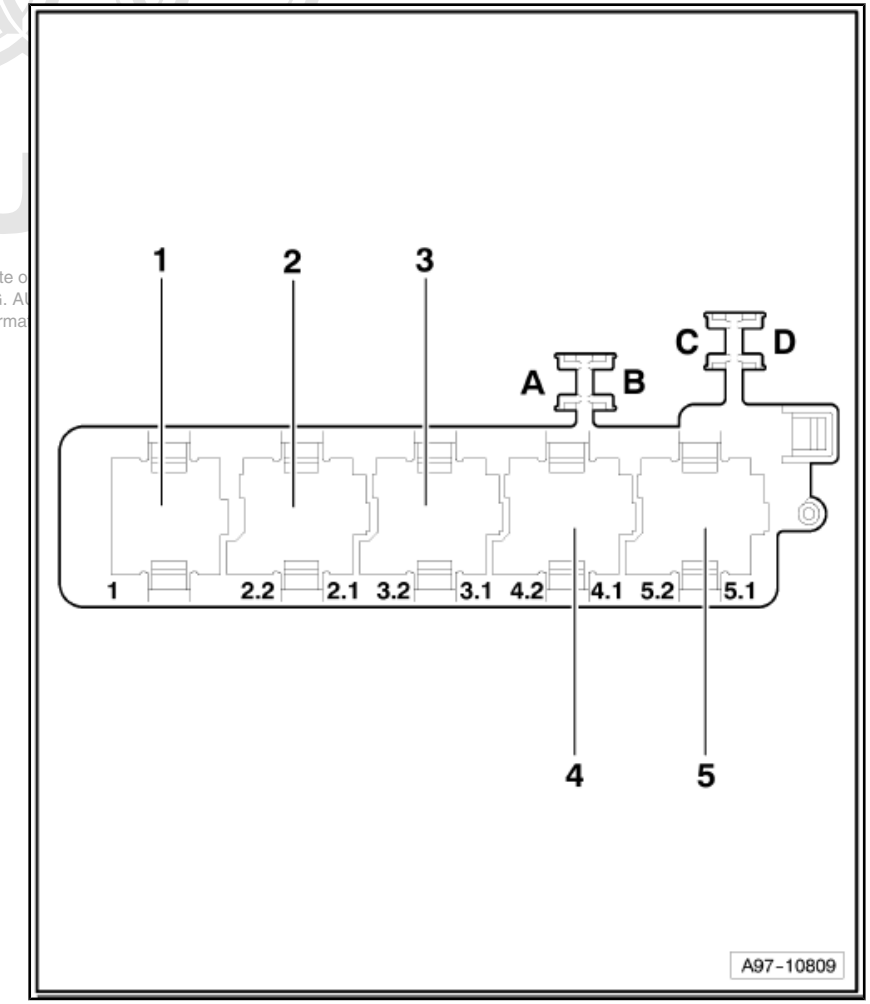
- ❑ Slot 5.2
- ❑ applicable from August 2005
- ❑ for models with diesel engines only

5 - Engine power reduction relay 1 -J662-

- ❑ applicable from model year 2005
- ❑ is dropped, from model year 2006

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1.8 Relay positions under left dash panel, from model year 2009



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1 - Low heat output relay -J359-

- for models with auxiliary air heater only

2 - Terminal 50 voltage supply relay -J682-

- only models without stop/start system

3 - Relay for supplementary fuel pump -J832-

- Slot 3.1
- for models with engine codes CBAA, CBAB, CBBB only
- is dropped, from model year 2010
- for models from model year 2010 ⇒ page 11

3 - Starter relay 1 -J906-

- Slot 3.1
- applicable from model year 2010
- only models with stop/start system

3 - Headlight washer system relay -J39-

- Slot 3.2
- is dropped, from model year 2010
- for models from model year 2010 ⇒ page 6

3 - Starter relay 2 -J907-

- Slot 3.2
- applicable from model year 2010
- only models with stop/start system

4 - Fuel pump relay -J17-

- Slot 4.1
- for models with engine codes BSE, CCSA, BLS, BXE, CBBB, CBAB, CBAA, CAYB, CAYC, CBEA, CFFA, CFFB, CFGB only
- for models with engine codes BUB, CBRA ⇒ page 4

4 - Electric fuel pump 2 relay -J49-

- Slot 4.1
- for models with engine codes BUB, CBRA only

4 - Continued coolant circulation relay -J151-

- Slot 4.1
- for models with engine codes CDAA, CCZA, CAWB, CCTA, CBFA only

- ❑ for models with engine codes BUB, CBRA ⇒ page 4

4 - Electric fuel pump 2 relay -J49-

- ❑ Slot 4.2
- ❑ for models with engine codes BSE, CCSA or with auxiliary heater only, engine codes BLS, BXE, CBBB, CBAB, CBAA, CAYB, CAYC, CFFA, CFFB, CFGB

4 - Engine component current supply relay -J757-

- ❑ Slot 4.2
- ❑ for models with engine code CBFA only

5 - High heat output relay -J360-

- ❑ for models with auxiliary air heater only
- ❑ is dropped, from model year 2010
- ❑ for models from model year 2010 ⇒ page 6

5 - Automatic anti-dazzle interior mirror relay -J910-

- ❑ Slot 5.1
- ❑ applicable from model year 2010

5 - Relay for supplementary fuel pump -J832-

- ❑ Slot 5.2
- ❑ for models with engine codes CBAA, CBAB, CBBB, CBEA, CFFA, CFFB, CFGB only
- ❑ applicable from model year 2010

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1.9 Position of relays under electronics box

1 - Not assigned

2 - Automatic glow period control unit -J179-

- ❑ Slot R2
- ❑ not for models with US equipment
- ❑ applicable from model year 2004
- ❑ is dropped, from model year 2006
- ❑ for models from model year 2006 ⇒ page 13

3 - Not assigned

4 - Continued coolant circulation relay -J151-

- ❑ Slot R6
- ❑ applicable from model year 2004
- ❑ is dropped, from model year 2006

5 - Secondary air pump relay -J299-

- ❑ Slot R5
- ❑ applicable from model year 2004
- ❑ for models with electronics box low, from model year 2006 ⇒ page 2
- ❑ for models with electronics box high, from model year 2009 ⇒ page 13

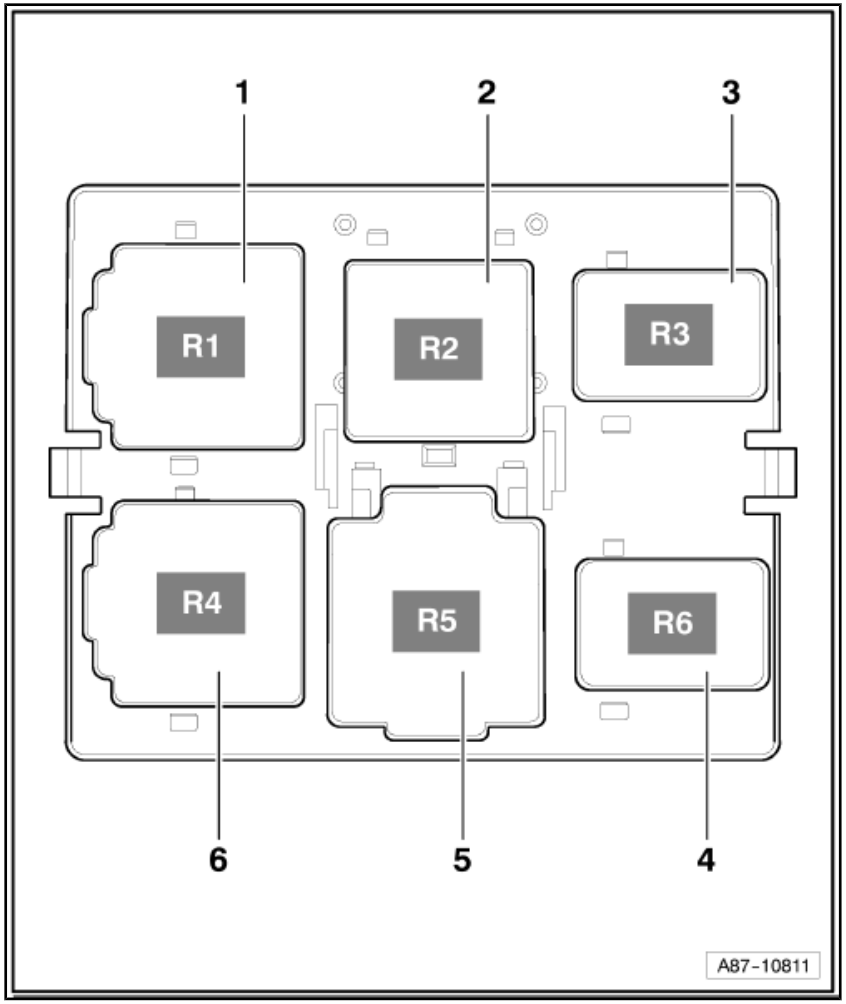
6 - Not assigned

Note

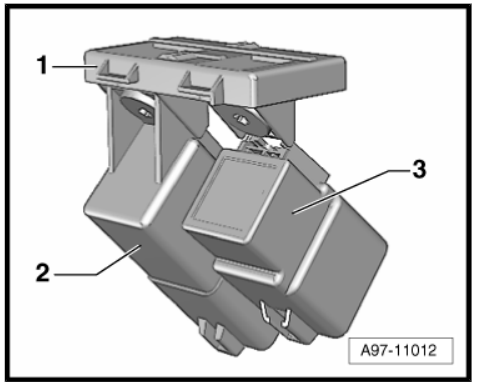
The relay carrier is only visible when the electronics box removed.

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1.10 Position of relays under electronics box



Position of relays under electronics box low, from model year 2006

1 - Relay carrier under electronics box in engine compartment, left

2 - Automatic glow period control unit -J179-

3 - Not assigned

Position of relays under electronics box high, from model year 2009

1 - Relay carrier under electronics box in engine compartment, left

2 - Not assigned

3 - Secondary air pump relay -J299-

Note

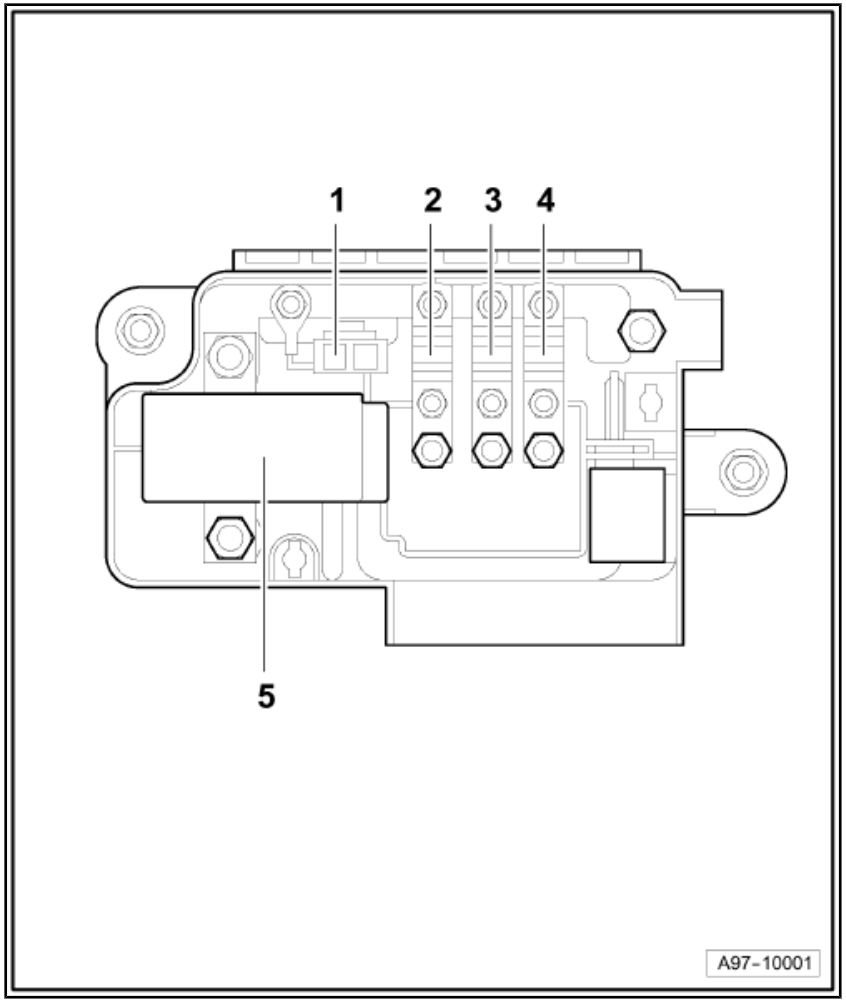
The relay carrier is only visible when the electronics box removed.

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1.11 Position of relays on main fuse box, in luggage compartment, rear right

5 - Battery cut-off relay -J655-

5 - Battery isolation igniter -N253-



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1 Control units in front part of vehicle

1.1 Overview of control units

1 - Automatic gearbox control unit -J217-
- ❑ for models with automatic gearbox (09G) only
- ❑ Location ⇒ page 2
- ❑ Connector assignment ⇒ page 3

2 - Wiper motor control unit -J400-
- ❑ Location ⇒ page 4

3 - Mechatronic unit for dual clutch gearbox -J743-
- ❑ Location for dual clutch gearbox (02E) ⇒ page 4
- ❑ Connector assignment for dual clutch gearbox (02E) ⇒ page 5
- ❑ Location for dual clutch gearbox (0AM) ⇒ page 6
- ❑ Connector assignment for dual clutch gearbox (0AM) ⇒ page 7

4 - Power steering control unit -J500-
- ❑ Location ⇒ page 8
- ❑ Connector assignment ⇒ page 9

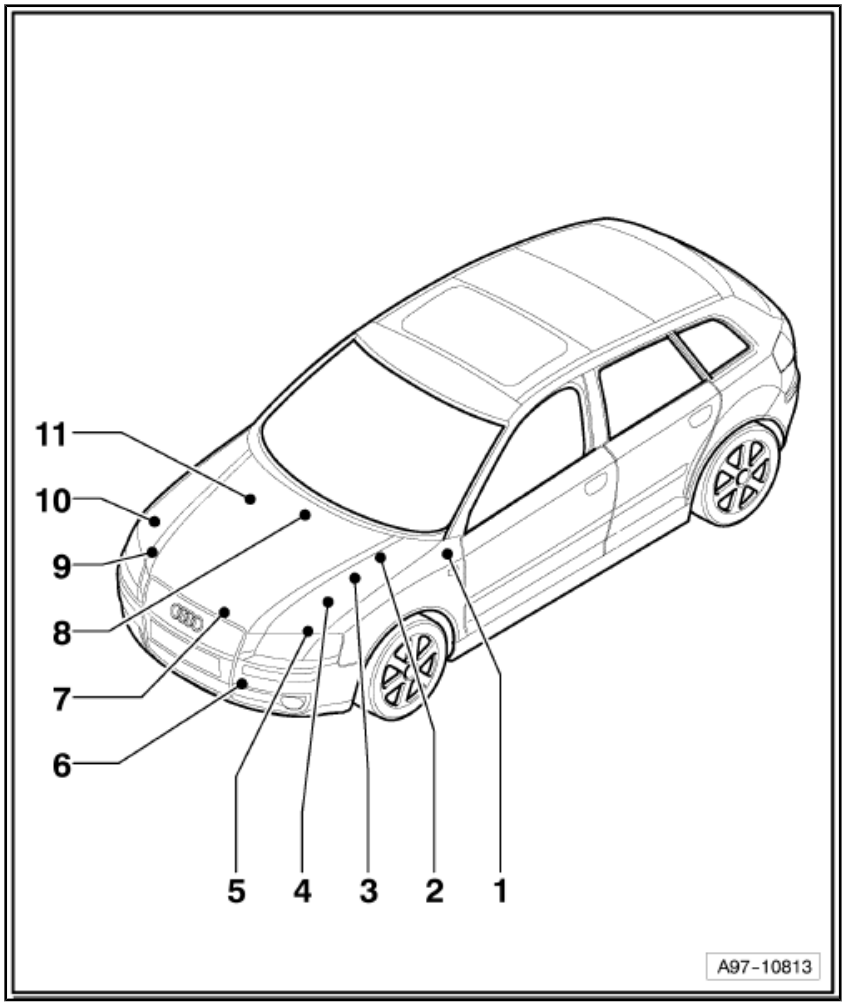
5 - Left gas discharge light control unit -J343-
- ❑ Location ⇒ page 10

5 -
Power output module for left headlight -J667-
- ❑ in headlight

6 - Garage door operation control unit -J530-
- ❑ Location ⇒ page 10
- ❑ Connector assignment ⇒ page 11

7 - Radiator fan control unit -J293-
- ❑ Location ⇒ page 12

8 -
Simos control unit -J361- /
Motronic control unit -J220- /
Diesel direct injection system control unit -J248- /
Engine control unit -J623-
- ❑ Location ⇒ page 12



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- Connector assignment, 121 pin ⇒ page 13
- Connector assignment, 154 pin ⇒ page 14

9 - Right gas discharge light control unit -J344-

- Location ⇒ page 10

9 - Power output module for right headlight -J668-

- in headlight

10 - Auxiliary heater control unit -J364-

- under the longitudinal member on front right
- Connector assignment ⇒ page 18

11 - ABS control unit -J104-

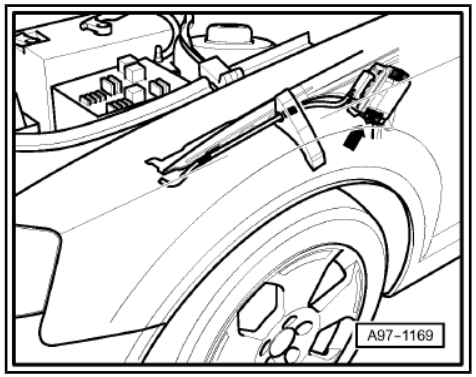
- Location ⇒ page 15
- Connector assignment, 47 pin ⇒ page 16
- Connector assignment, 26 pin ⇒ page 17

1.2 Automatic gearbox control unit -J217-

1.2.1 Location:

under front left wing, near A pillar

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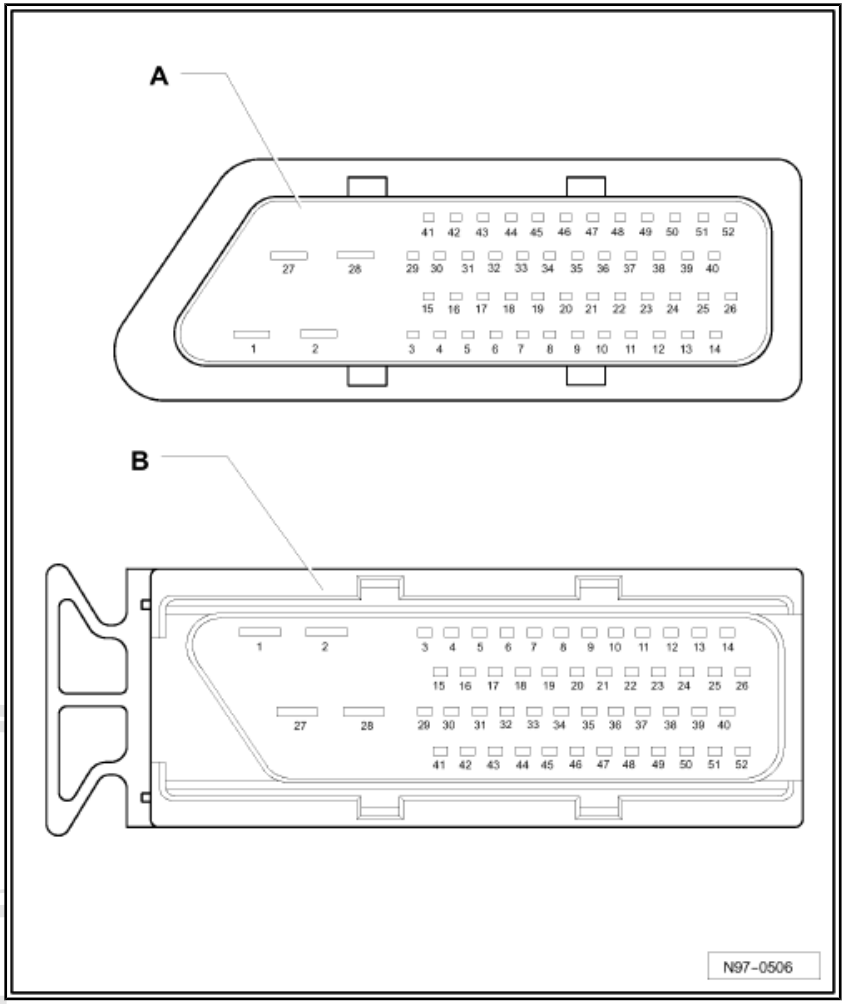


1.2.2 Connector assignment.

A - Automatic gearbox control unit -J217-

Pin connector:

B - 52-pin connector -T52-

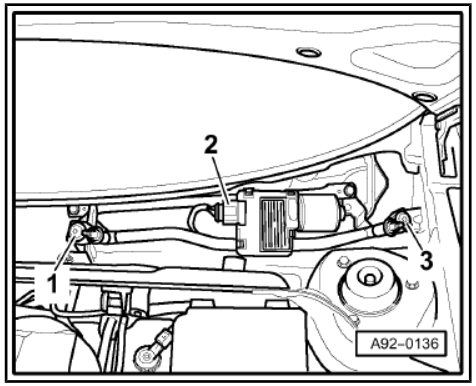


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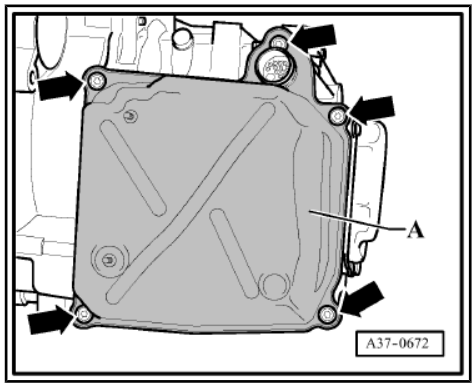
1.3 Wiper motor control unit -J400-

1.3.1 Location:

in plenum chamber at windscreen wiper motor -V-



1.4 Mechatronic unit for dual clutch gearbox -J743-



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1.4.1 Location:

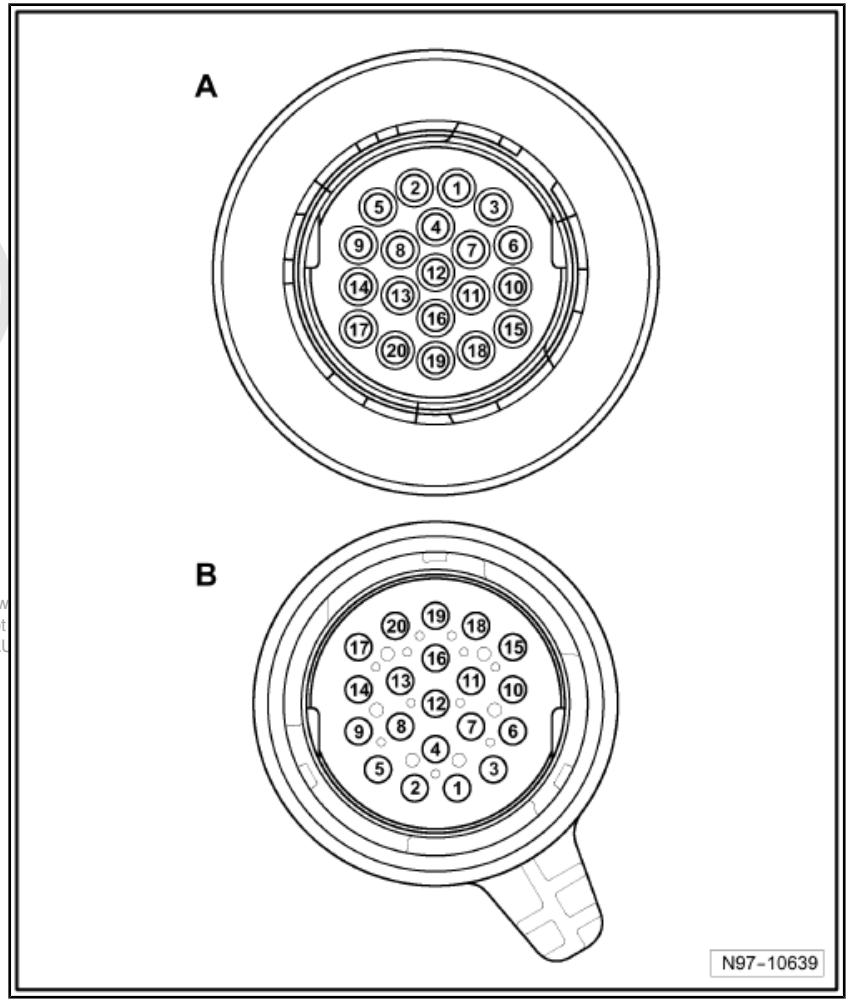
on gearbox

1.4.2 Connector assignment.

A - Mechatronic unit for dual clutch gearbox -J743-

Pin connector:

B - 20-pin connector -T20e-

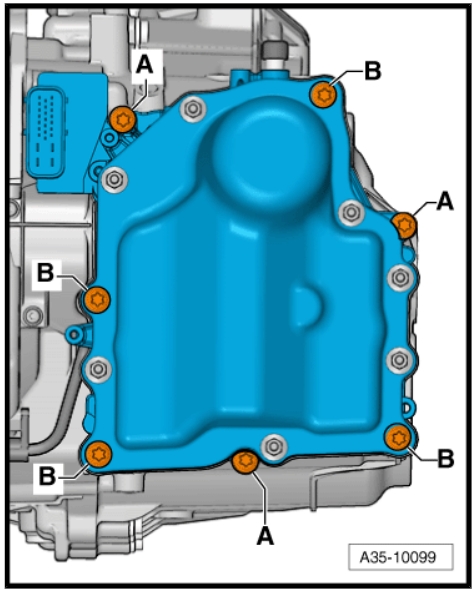


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1.5 Mechatronic unit for dual clutch gearbox -J743-

1.5.1 Location:

on gearbox



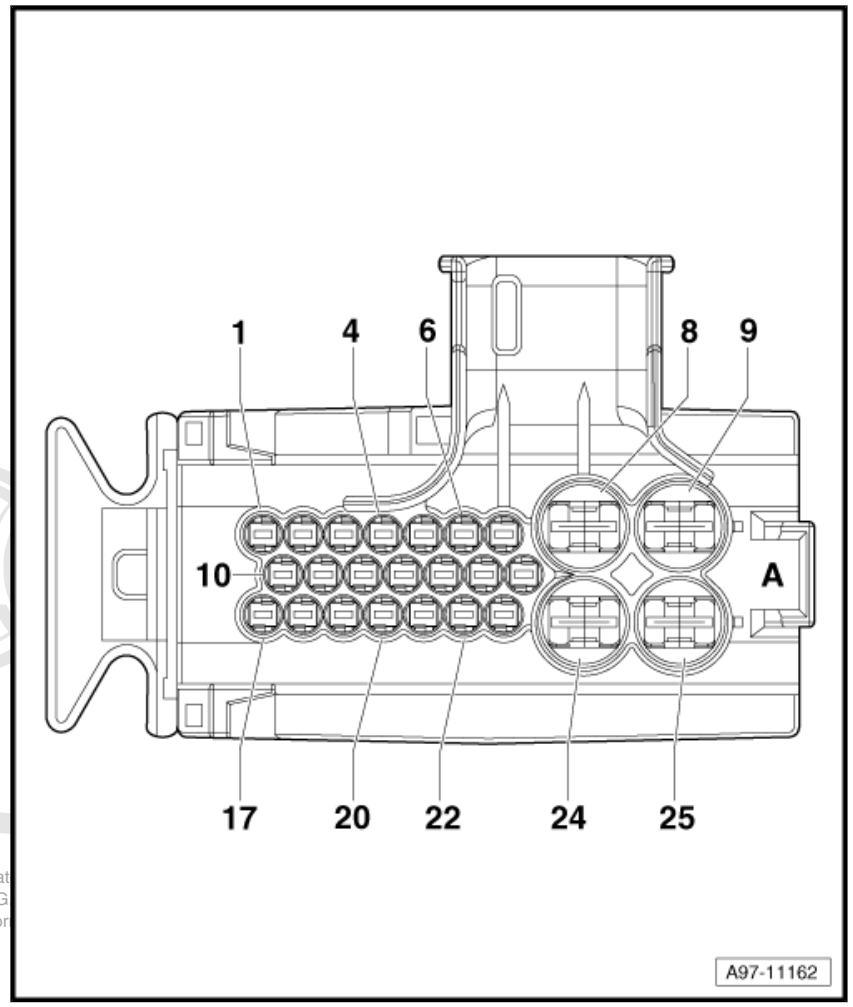
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1.5.2 Connector assignment.

- Mechatronic unit for dual clutch gearbox -J743-

Pin connector:

A - 25-pin connector -T25-

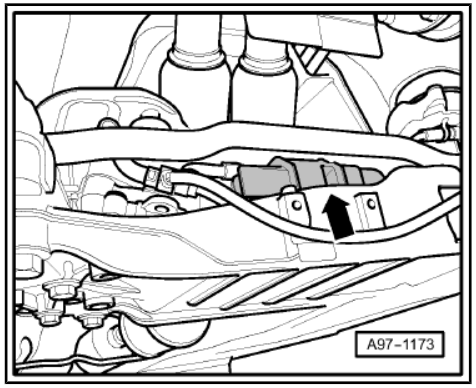


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1.6 Power steering control unit -J500-

1.6.1 Location:

on steering box -arrow-



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1.6.2 Connector assignment.

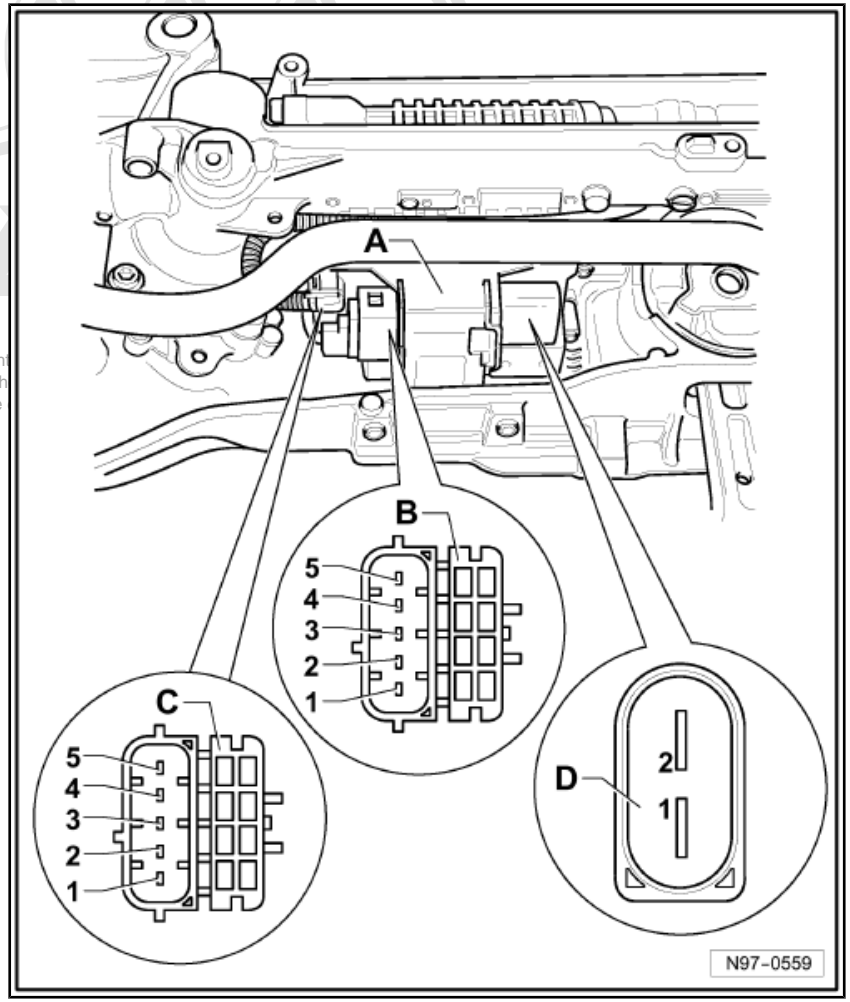
A - Power steering control unit -J500-

Pin connector:

B - 5-pin connector -T5-

C - 5-pin connector -T5a-

D - 2-pin connector -T2a-

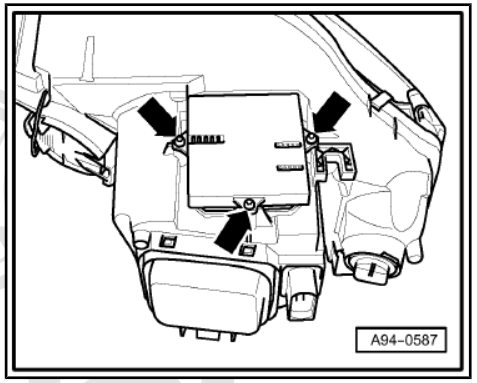


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1.7 Left gas discharge light control unit -J343- / Right gas discharge light control unit -J344-

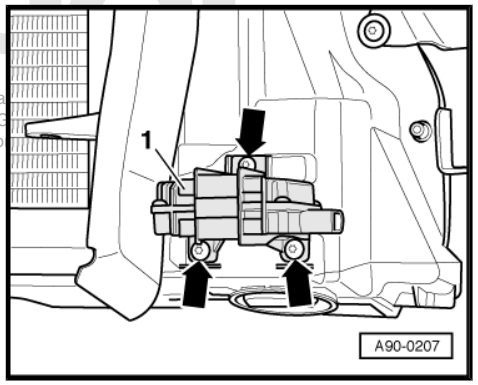
1.7.1 Location:

on headlight housing



1.8 Garage door operation control unit -J530-

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1.8.1 Location:

under front bumper-1-

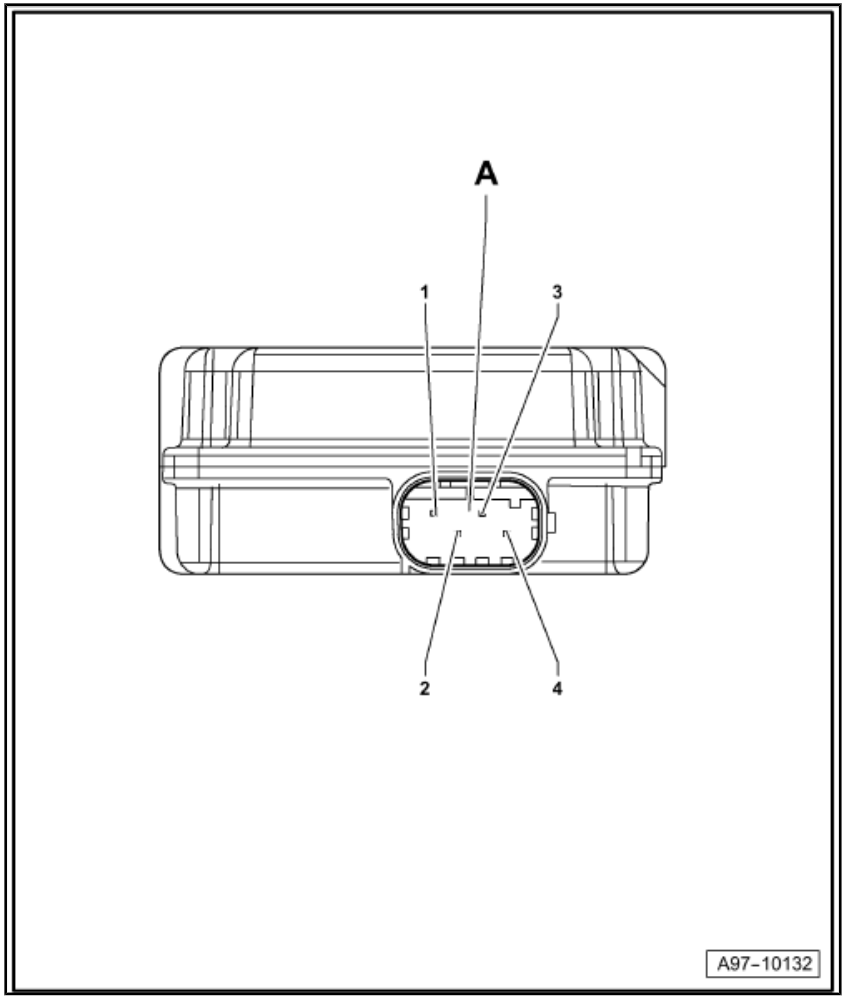
1.8.2 Connector assignment.

- Garage door operation control unit -J530-

Pin connector:

A - 4-pin connector -T4ak-

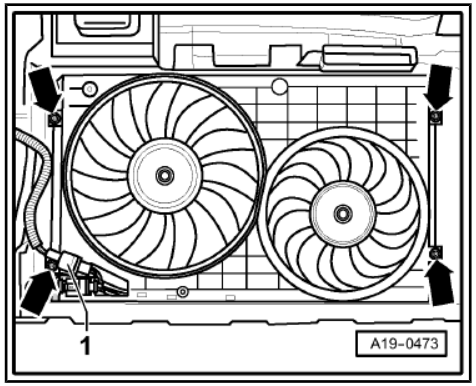
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1.9 Radiator fan control unit -J293-

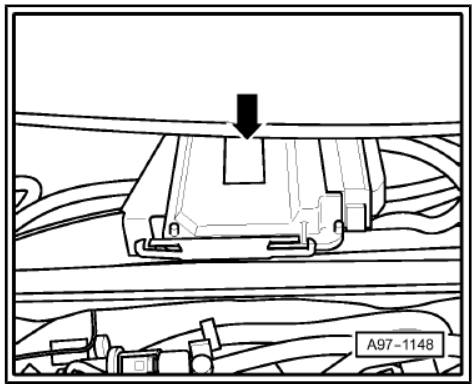
1.9.1 Location:

on motor for radiator fan -V7-



1.10 Simos control unit -J361- / Motronic control unit -J220- / Diesel direct injection system control unit -J248- / Engine control unit -J623-

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1.10.1 Location:

central in plenum chamber -arrow-

1.10.2 Connector assignment, 121 pin:

A - Engine control unit -J623-

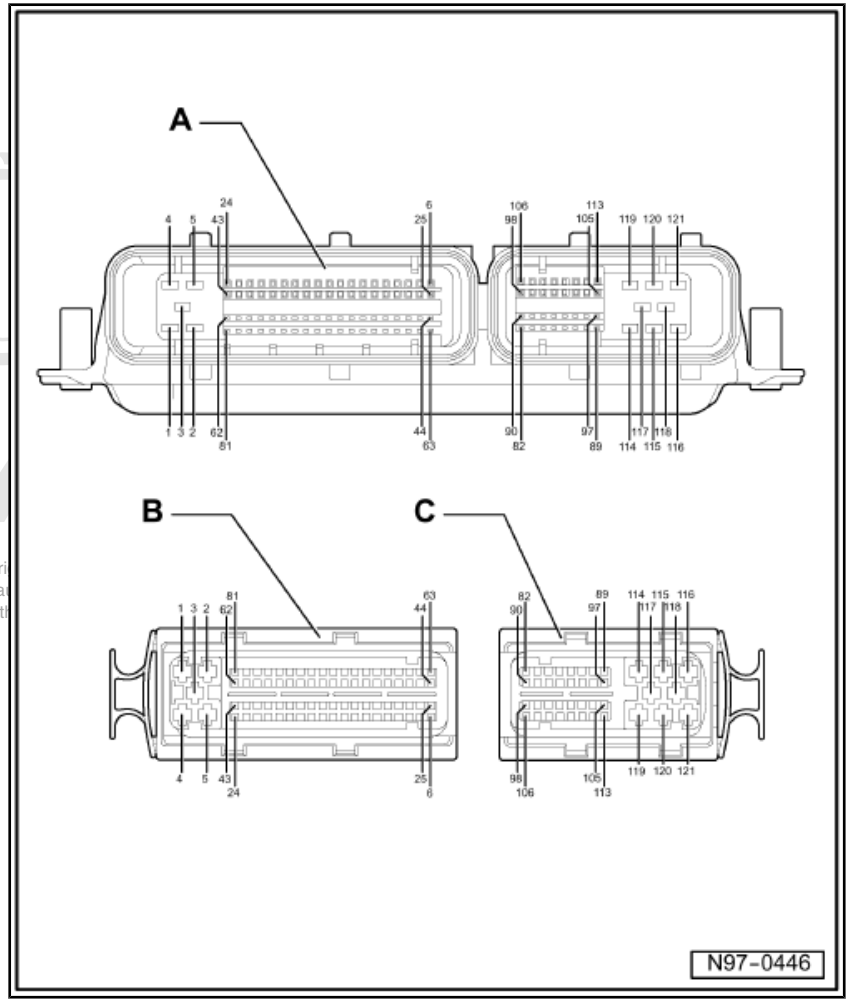
Pin connector:

B - 81-pin connector -T81-

C - 40-pin connector -T40-

Note

-T121- made up of items B and C.



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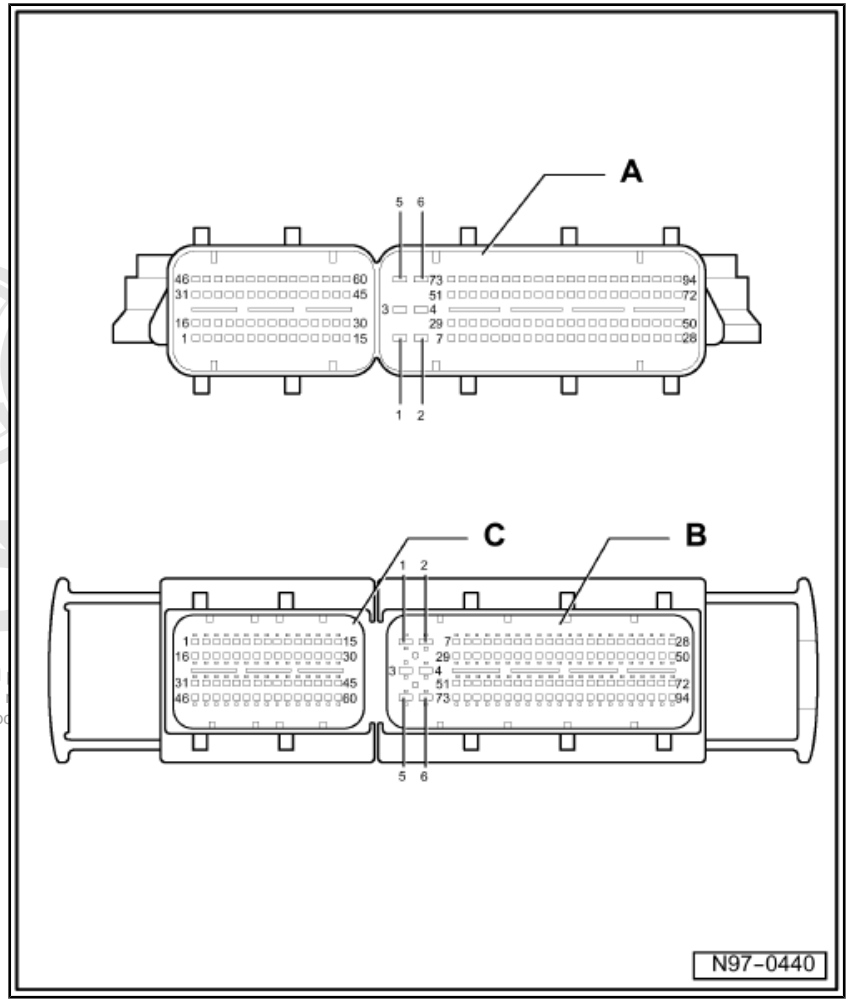
1.10.3 Connector assignment, 154 pin:

A - Engine control unit

Pin connector:

B - 94-pin connector -T94-

C - 60-pin connector -T60-

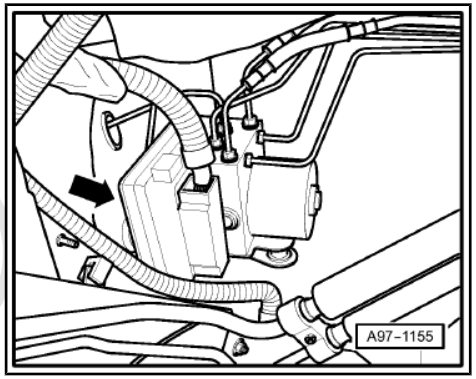


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1.11 ABS control unit -J104-

1.11.1 Location:

On bulkhead, in engine compartment, right -arrow-



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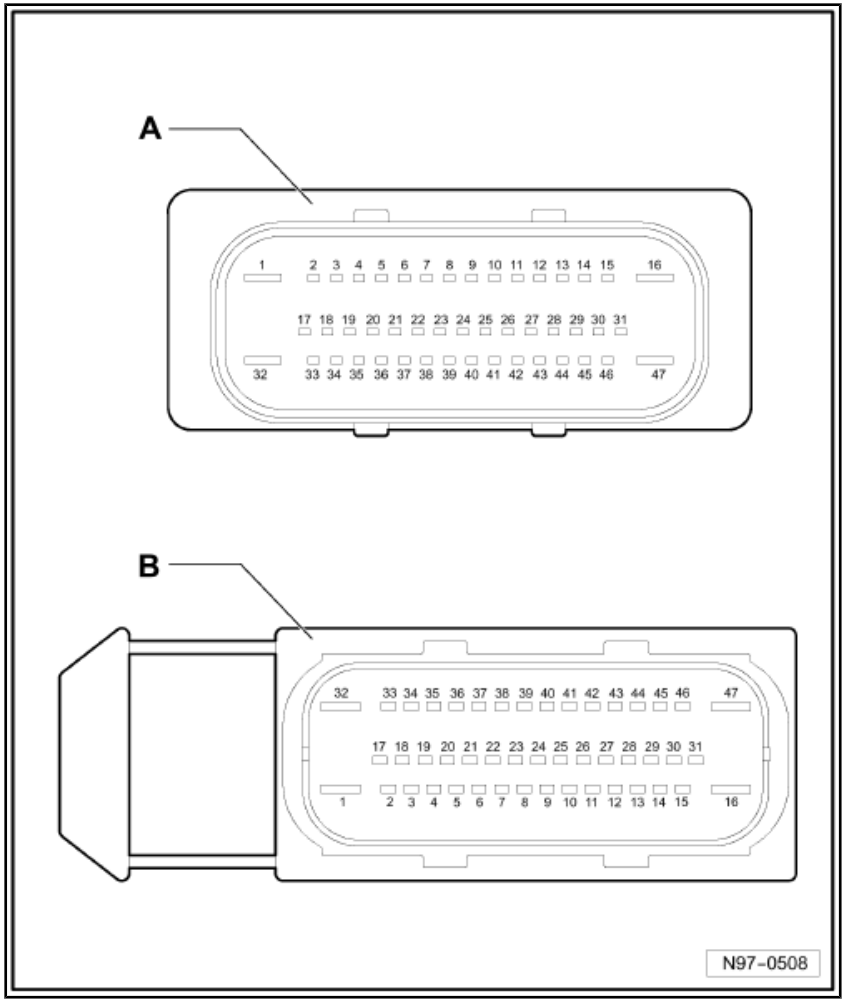
1.11.2 Connector assignment:

A - ABS control unit (MK60) -J104-

Pin connector:

B - 47-pin connector

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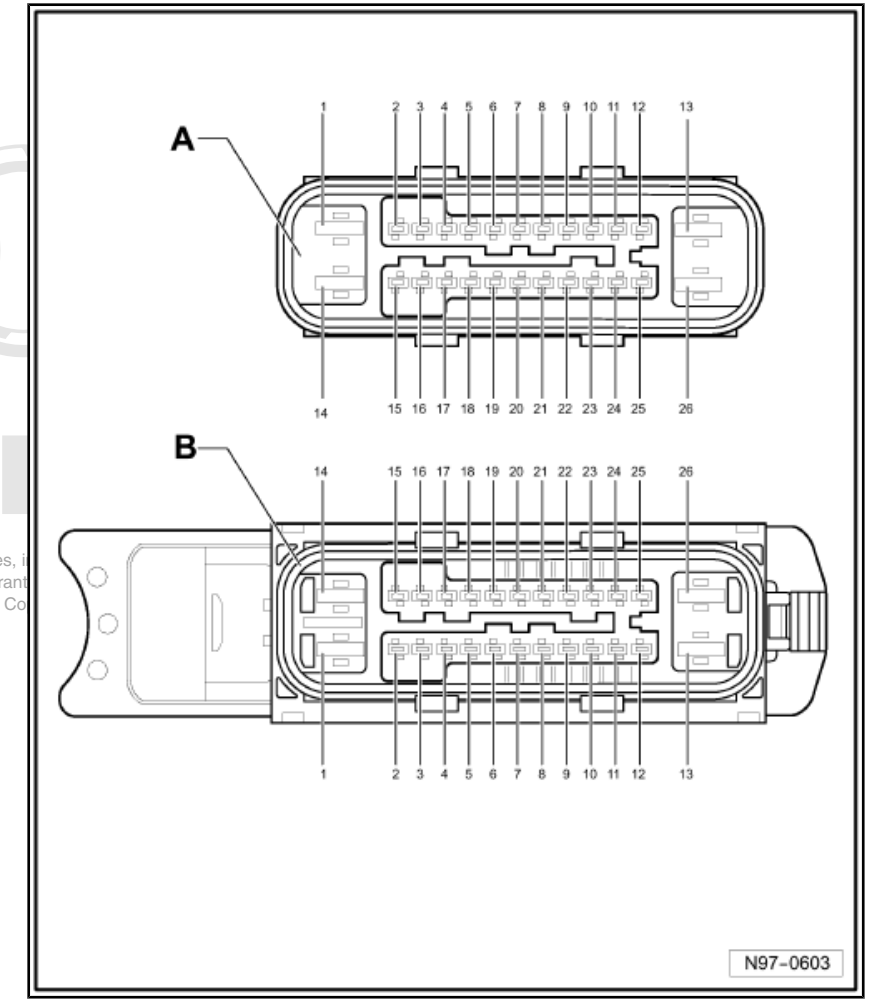


1.11.3 Connector assignment:

A - ABS control unit (MK70) -J104-

Pin connector:

B - 26-pin connector



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1.12 Auxiliary heater control unit -J364-

1.12.1 Connector assignment.

1 - Auxiliary heater control unit -J364-

Pin connector:

2 - 2-pin connector -T2v-

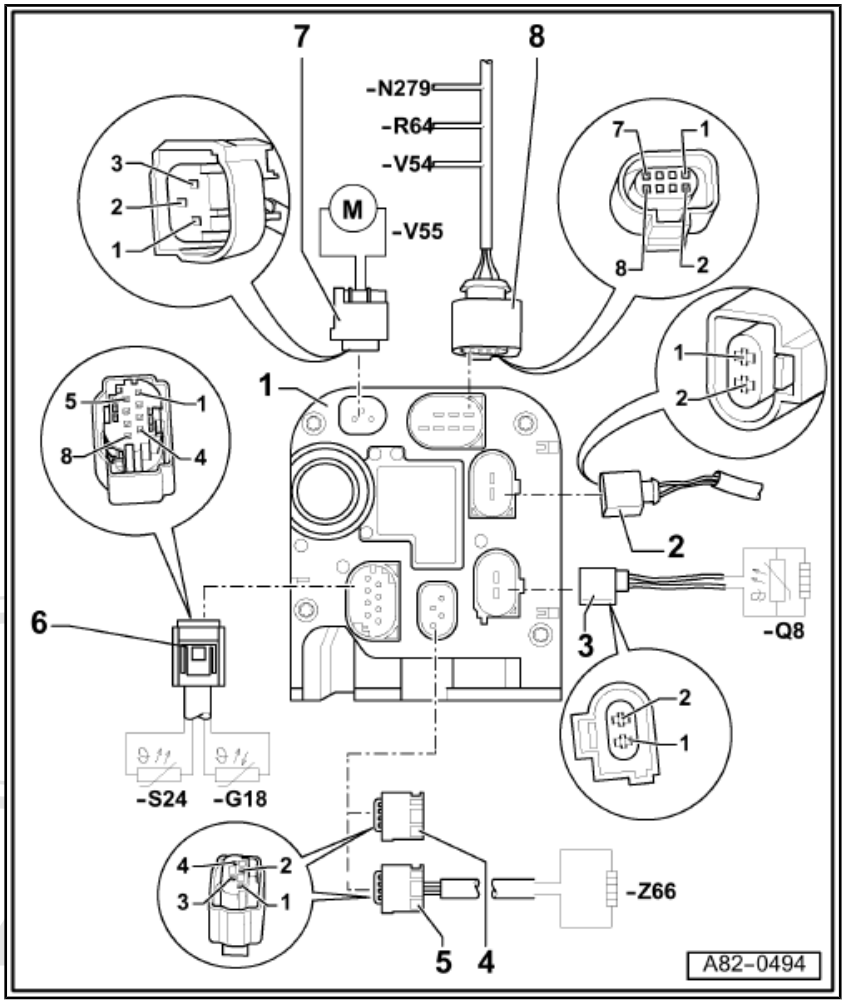
3 - 2-pin connector -T2x-

5 - 4-pin connector -T4u-

6 - 8-pin connector -T8r-

7 - 3-pin connector -T3j-

8 - 8-pin connector -T8q-



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1 Control units in interior of vehicle

1.1 Overview of control units

1 - Headlight range control, control unit -J431-
- ❑ Location ⇒ page 4
- ❑ Connector assignment ⇒ page 5

2 - Front passenger seat heating control unit -J727-
- ❑ Location ⇒ page 6
- ❑ Connector assignment ⇒ page 7
- ❑ not for models with US equipment

2 - Electronically controlled damping control unit -J250-
- ❑ Location ⇒ page 40
- ❑ Connector assignment ⇒ page 41

3 - Sliding sunroof adjustment control unit -J245-
- ❑ Location ⇒ page 8
- ❑ Connector assignment ⇒ page 9

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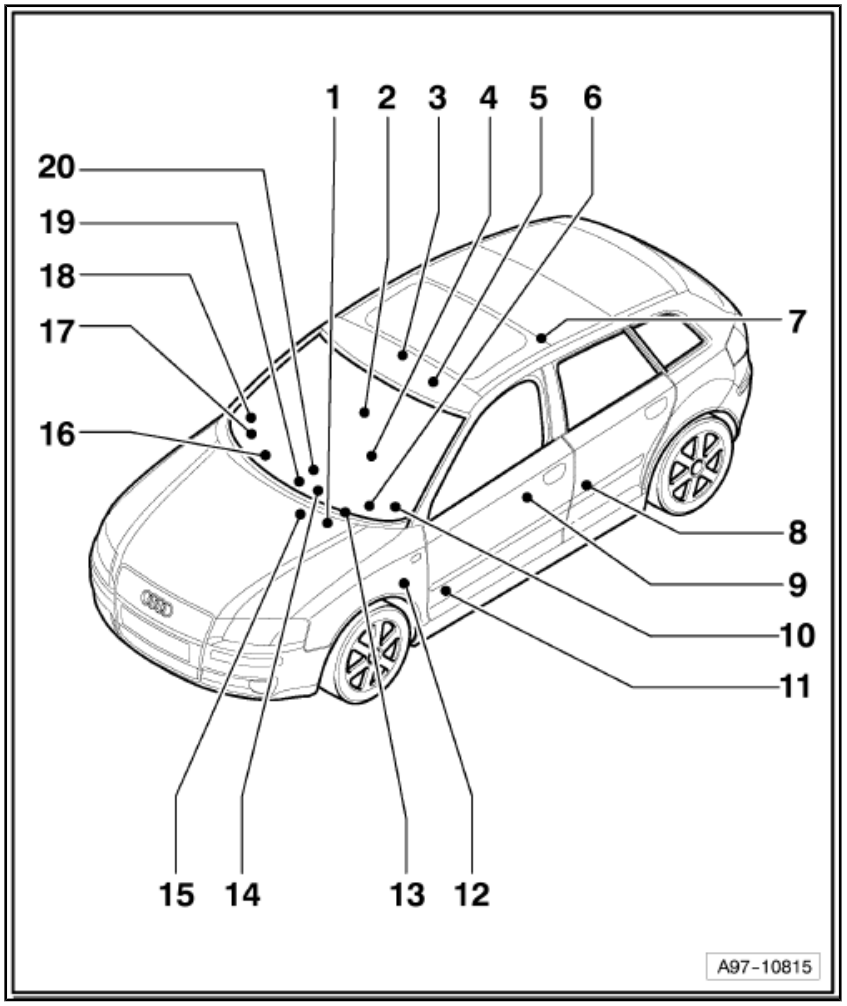
4 - NOx sensor control unit -J583-
- ❑ Location ⇒ page 10
- ❑ not for models with US equipment

5 - Rear left door control unit -J388-
- ❑ Location ⇒ page 10
- ❑ Connector assignment ⇒ page 11
- ❑ for models with 5-door models only

6 - Control unit in dash panel insert -J285-
- ❑ Location ⇒ page 13
- ❑ Connector assignment ⇒ page 14

7 - Fuel pump control unit -J538-
- ❑ Location ⇒ page 15
- ❑ Connector assignment ⇒ page 16

8 - Rear right door control unit -J389-
- ❑ Location ⇒ page 10



- ❑ Connector assignment ⇒ page 12
- ❑ for models with 5-door models only

9 - Driver seat heating control unit -J726-

- ❑ Location ⇒ page 17
- ❑ Connector assignment ⇒ page 18
- ❑ not for models with US equipment

9 - Voltage stabiliser -J532-

- ❑ Location ⇒ page 44
- ❑ Connector assignment ⇒ page 44
- ❑ not for models with US equipment

10 - Steering column electronics control unit -J527-

- ❑ Location ⇒ page 19
- ❑ Connector assignment ⇒ page 20

11 - Driver door control unit -J386-

- ❑ Location ⇒ page 21
- ❑ Connector assignment ⇒ page 22

12 - Onboard supply control unit -J519-

- ❑ Location, from model year 2004 ⇒ page 23
- ❑ Location, from model year 2010 ⇒ page 25
- ❑ Connector assignment, from model year 2004 ⇒ page 24
- ❑ Connector assignment, from model year 2010 ⇒ page 26

13 - Heater control unit -J65- / Heater control unit -J162-

- ❑ Location ⇒ page 27

13 - Climatronic control unit -J255-

- ❑ Location ⇒ page 27
- ❑ Connector assignment ⇒ page 28

13 - Air conditioning system control unit -J301-

- ❑ in centre console
- ❑ not for models with US equipment

14 - Auxiliary air heater control unit -J604-

- ❑ Location ⇒ page 37
- ❑ Connector assignment ⇒ page 38

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- ❑ not for models with US equipment

15 - Data bus diagnostic interface -J533-

- ❑ Location ⇒ page 29
- ❑ Connector assignment ⇒ page 30

16 - CD changer -R41-

- ❑ Location ⇒ page 40

16 -
Tyre pressure monitor control unit -J502-

- ❑ Location ⇒ page 42
- ❑ Connector assignment ⇒ page 43

17 - Fresh air blower control unit -J126-

- ❑ Location ⇒ page 31

18 - Front passenger door control unit -J387-

- ❑ Location ⇒ page 31
- ❑ Connector assignment ⇒ page 32

19 - Airbag control unit -J234-

- ❑ Location ⇒ page 33
- ❑ Connector assignment, 75 pin ⇒ page 34
- ❑ Connector assignment, 84 pin ⇒ page 35
- ❑ Connector assignment, 100 pin ⇒ page 36

20 - Radio -R- /
Control unit with display for radio and navigation system -J503-

- ❑ Location ⇒ page 39

20 -
Navigation operating electronics control unit -J402-

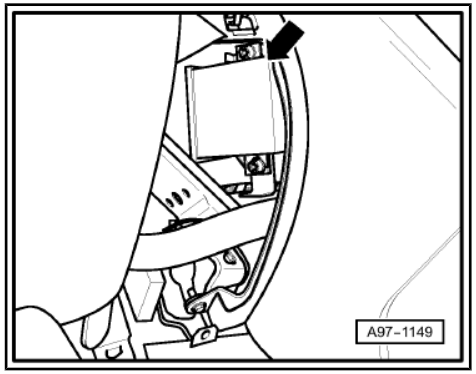
- ❑ Location ⇒ page 39

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1.2 Headlight range control, control unit -J431-

1.2.1 Location:

Below the dash panel on right, on left centre console -arrow-



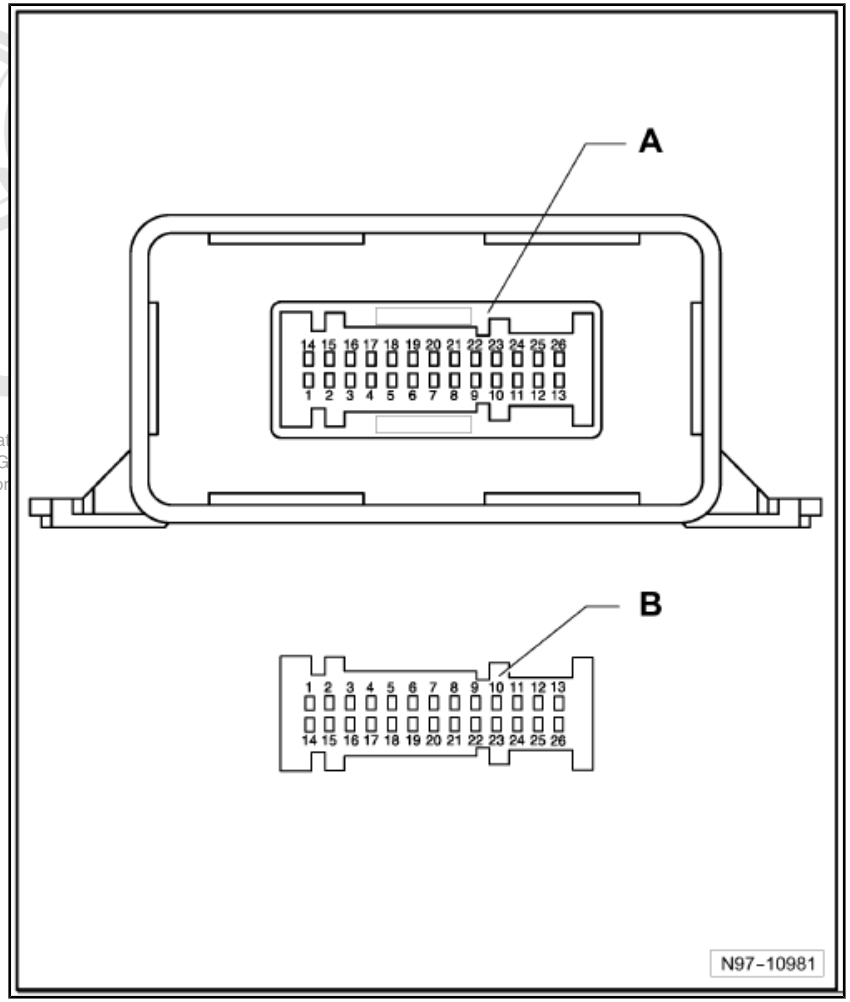
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1.2.2 Connector assignment.

A - Headlight range control, control unit -J431-

Pin connector:

B - 26-pin connector -T26a-

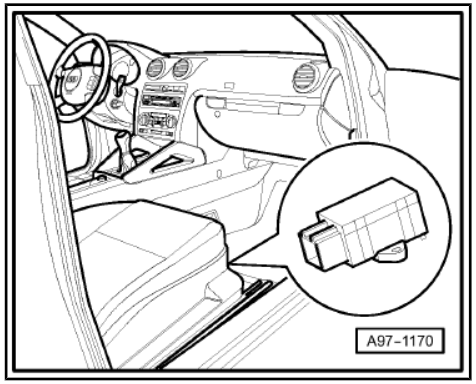


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1.3 Front passenger seat heating control unit -J727-

1.3.1 Location:

Under front passenger seat



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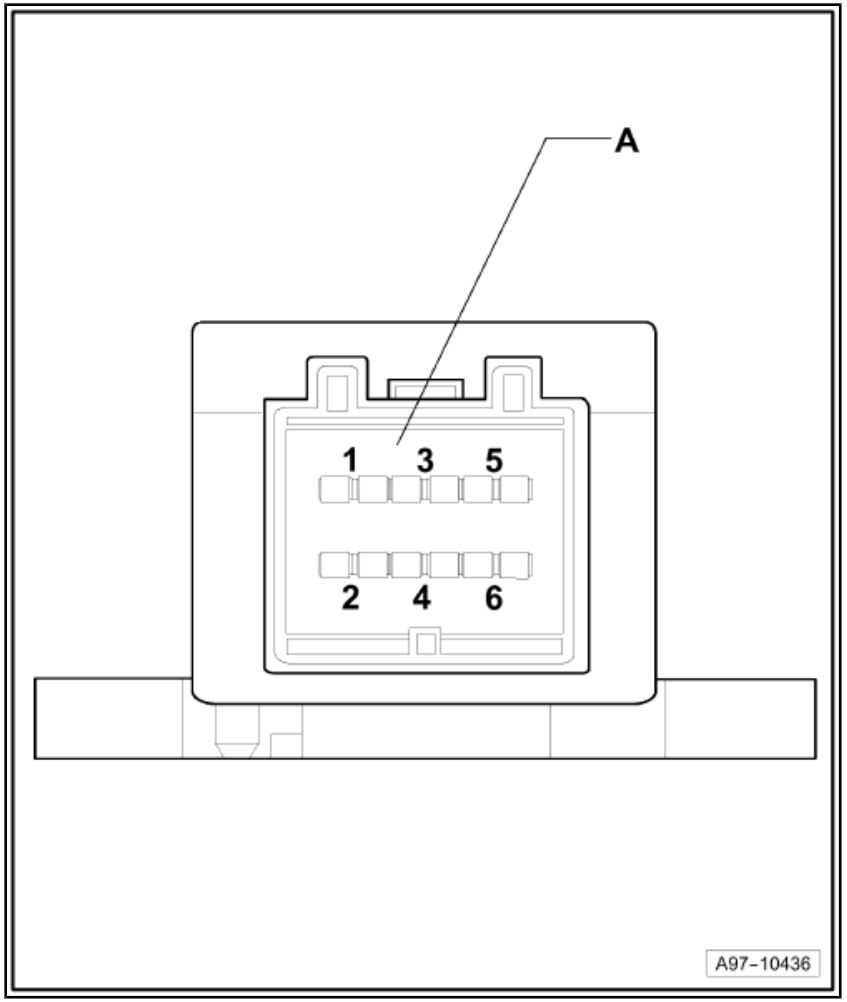
1.3.2 Connector assignment.

- Front passenger seat heating control unit -J727-

Pin connector:

A - 6-pin connector -T6p-

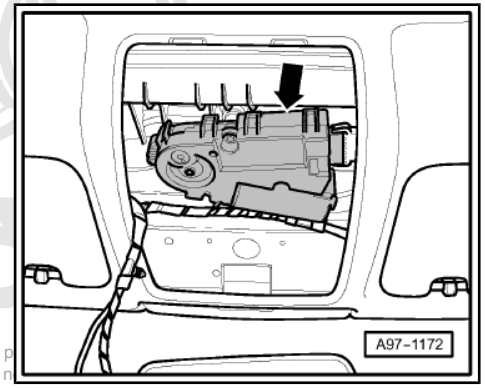
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1.4 Sliding sunroof adjustment control unit -J245-

1.4.1 Location:

Under cover for interior light operating unit -arrow-



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1.4.2 Connector assignment.

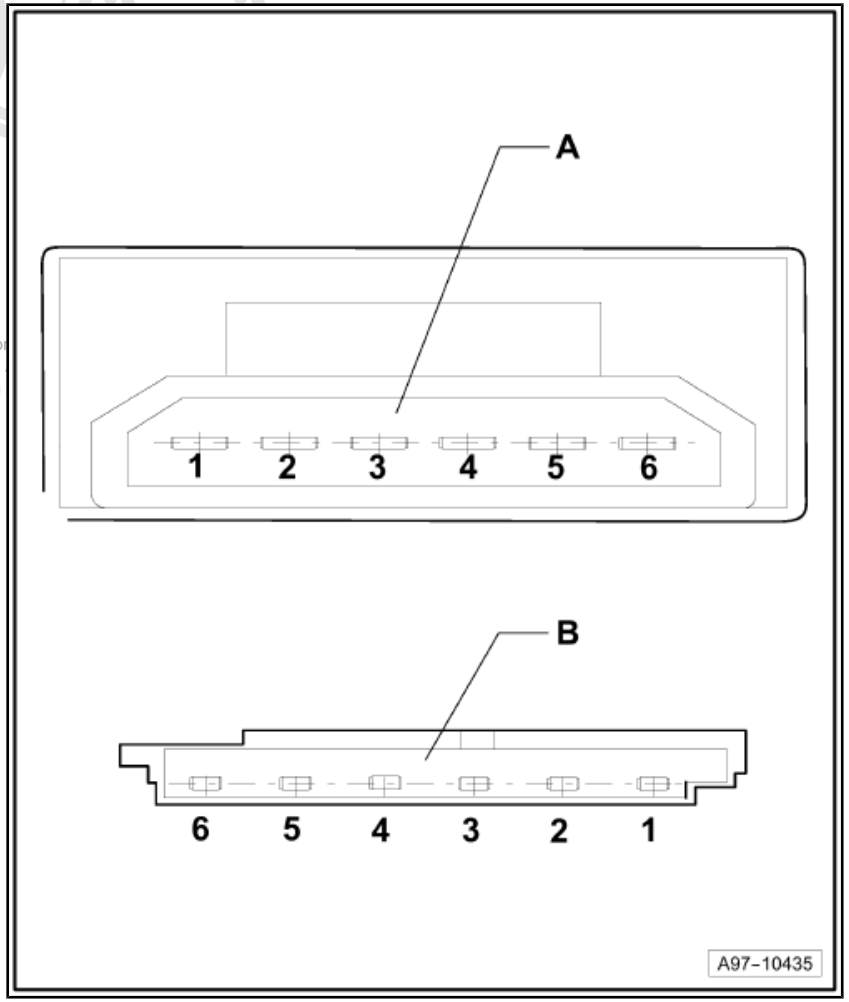
- Sliding sunroof adjustment control unit -J245-

Pin connector:

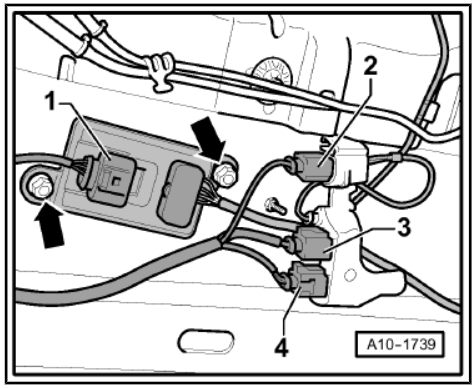
A - 6-pin connector -T6b-

B - 6-pin connector -T6t-

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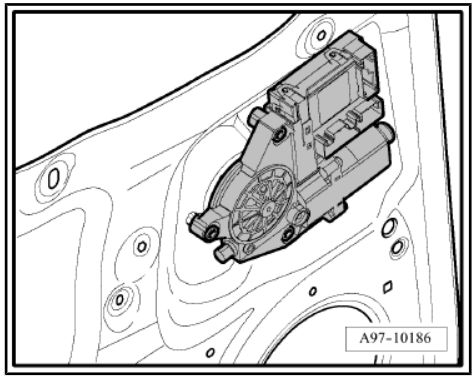
1.5 NOx sensor control unit -J583-



1.5.1 Location:

on underbody, near NOx catalytic converter

1.6 Rear left door control unit -J388- / Rear right door control control unit -J389-



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1.6.1 Location:

in rear door

1.6.2 Connector assignment.

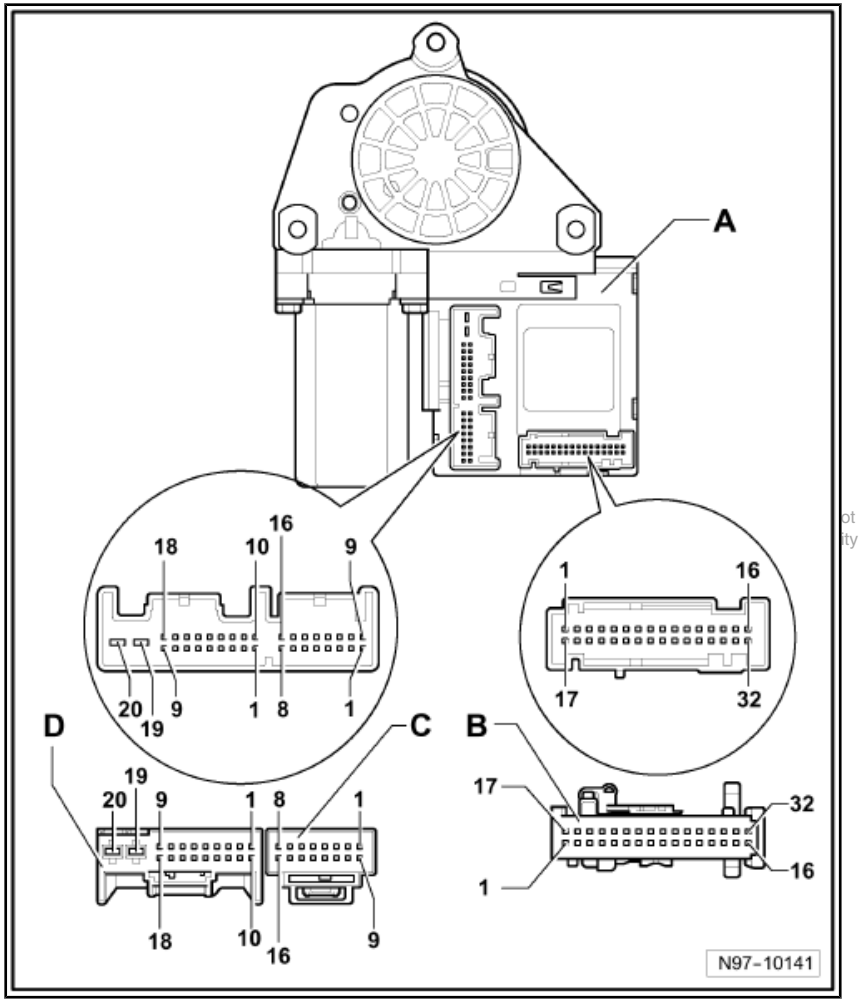
A - Rear left door control unit -J388-

Pin connector:

B - 32-pin connector -T32e-

C - 16-pin connector (Vacant)

D - 20-pin connector -T20n-



1.6.3 Connector assignment.

A - Rear right door control unit -J389-

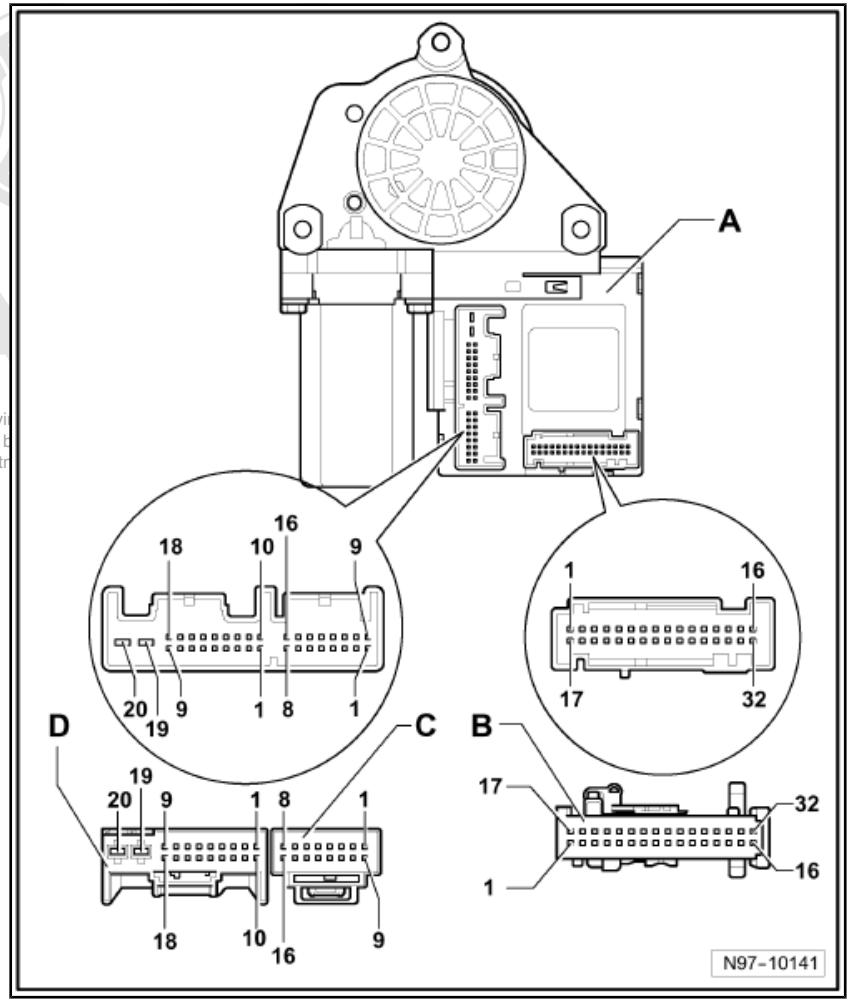
Pin connector:

B - 32-pin connector -T32f-

C - 16-pin connector (Vacant)

D - 20-pin connector -T20o-

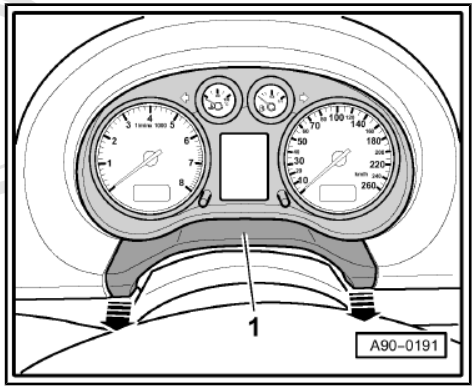
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1.7 Control unit in dash panel insert -J285-

1.7.1 Location:

in dash panel



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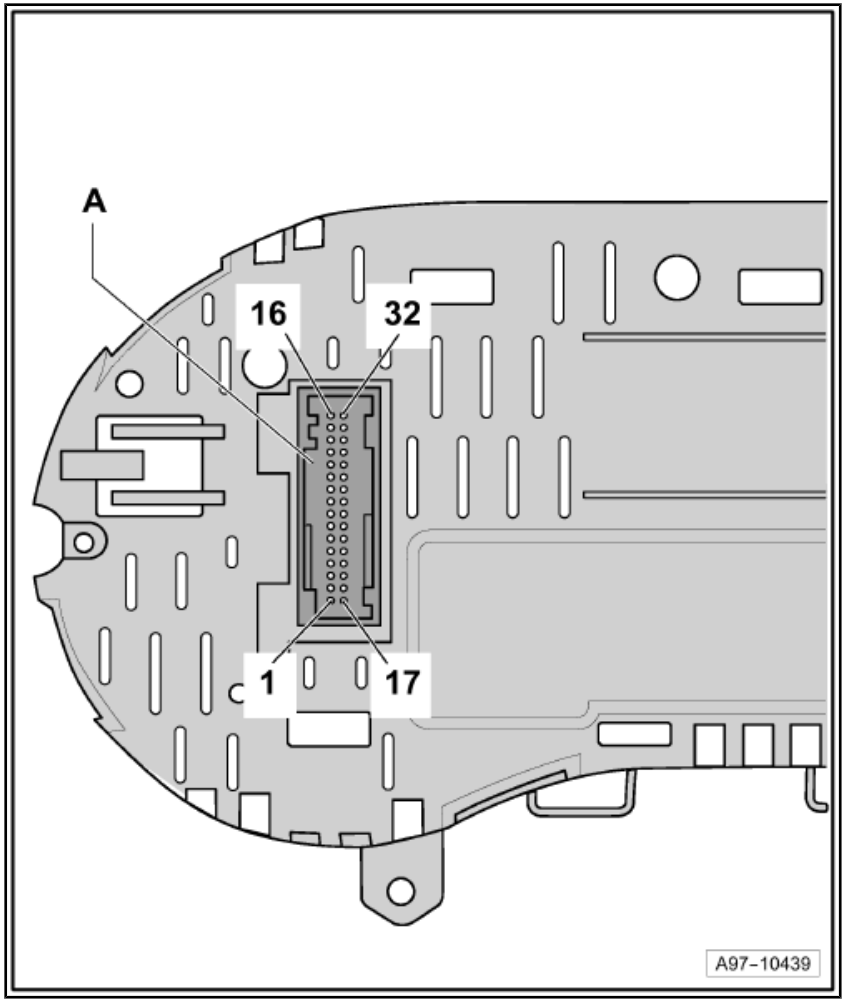
1.7.2 Connector assignment.

- Control unit in dash panel insert -J285-

Pin connector:

A - 32-pin connector -T32-

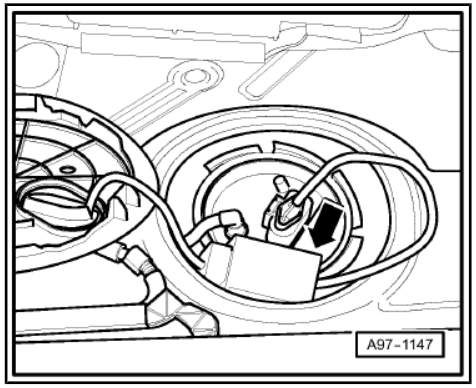
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1.8 Fuel pump control unit -J538-

1.8.1 Location:

Under rear seat bench, on fuel pump -arrow-



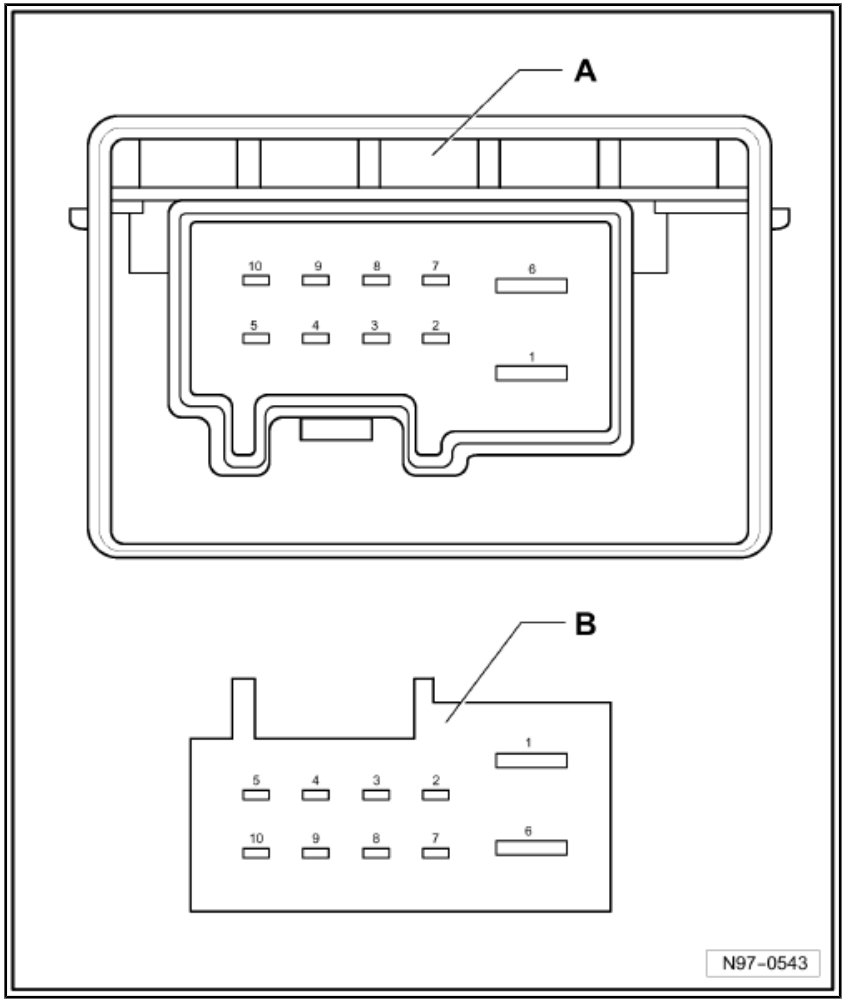
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1.8.2 Connector assignment.

A - Fuel pump control unit -J538-

Pin connector:

B - 10-pin connector -T10b-

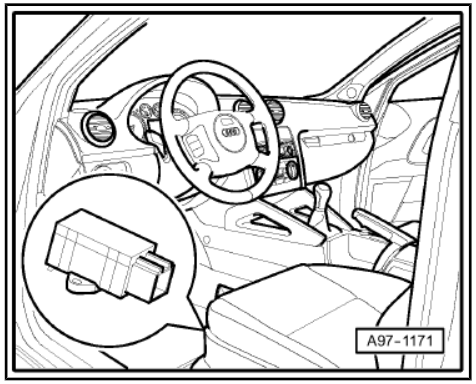


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1.9 Driver seat heating control unit -J726-

1.9.1 Location:

under driver seat



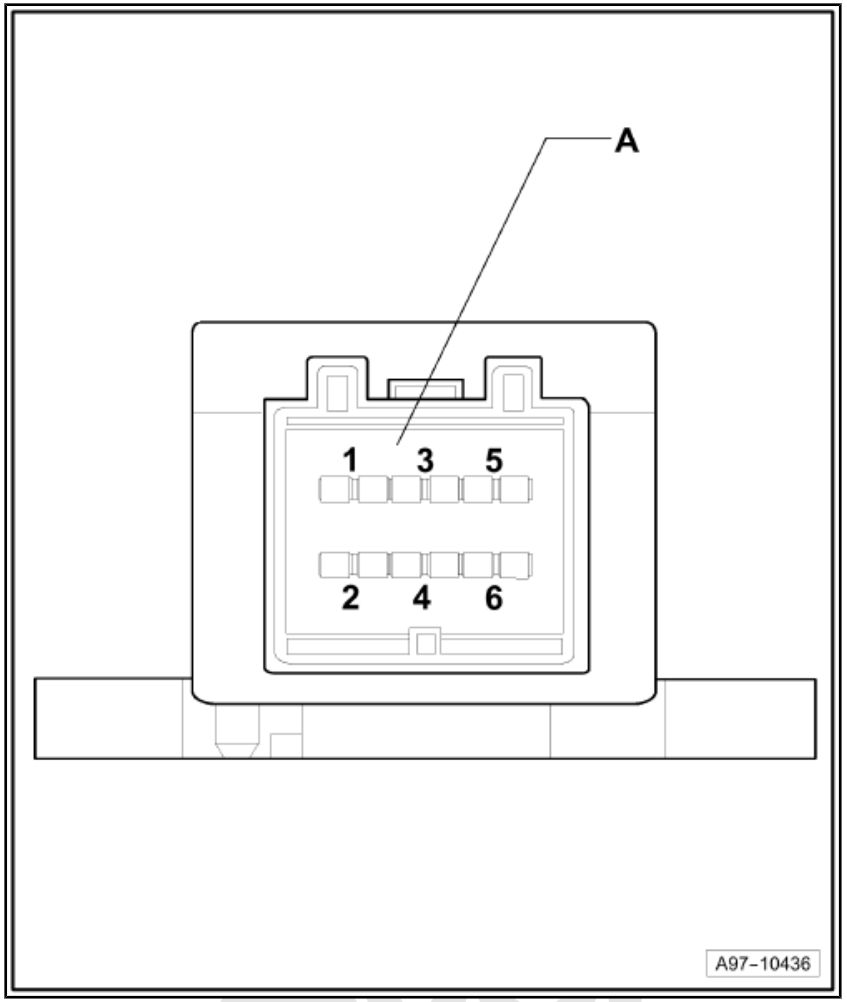
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1.9.2 Connector assignment.

- Driver seat heating control unit -J726-

Pin connector:

A - 6-pin connector -T6o-

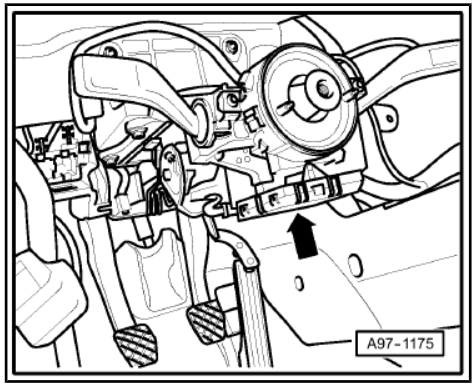


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1.10 Steering column electronics control unit -J527-

1.10.1 Location:

On steering column -arrow-



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1.10.2 Connector assignment.

A - Steering column electronics control unit -J527-

B - 4-pin connector (Airbag mounting)

C - 10-pin connector (Cruise control system and turn signal support)

D - 20-pin connector -T20b-

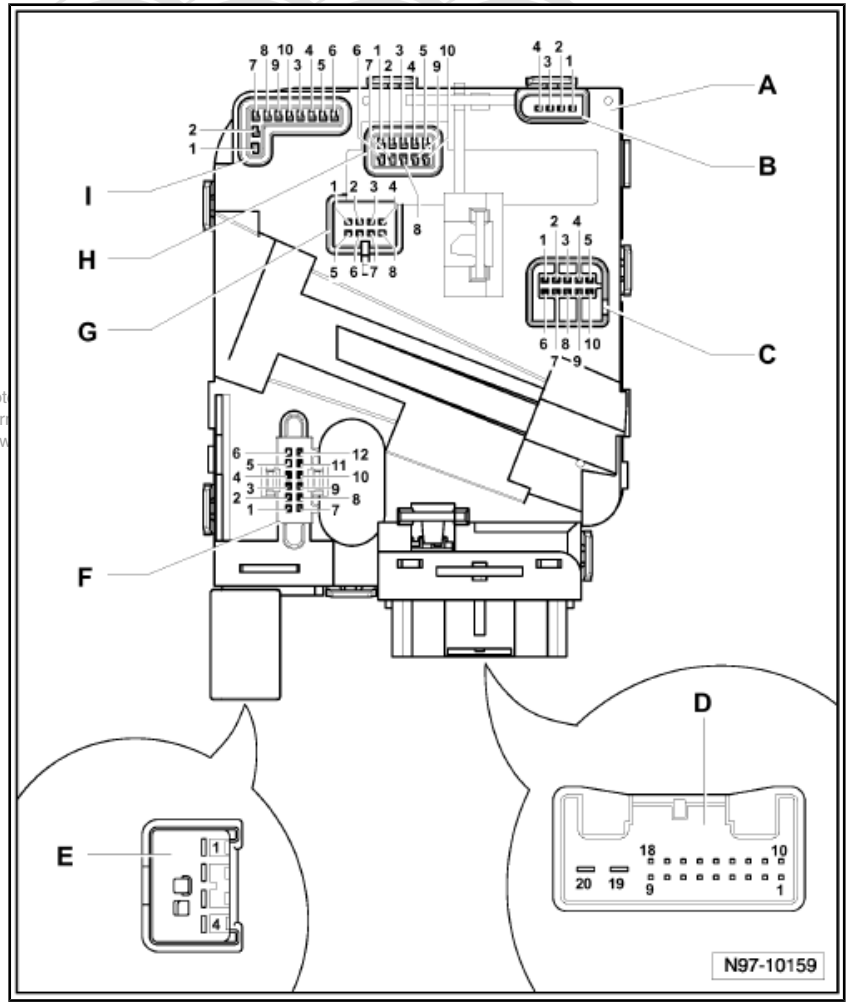
E - 4-pin connector -T4n-

F - 12-pin connector (Ignition/starter switch and ignition key withdrawal lock support)

G - 8-pin connector (Wiper support, interval potentiometer and multifunction system)

H - 10-pin connector (Steering angle sensor support)

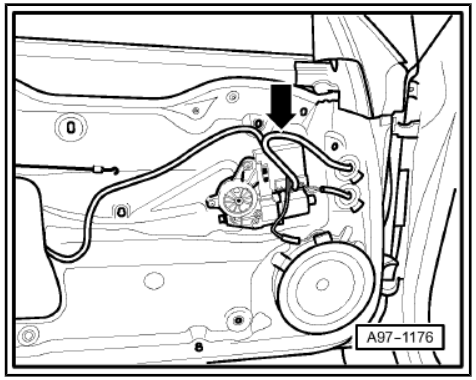
I - 10-pin connector (Coil connector support)



1.11 Driver door control unit -J386-

1.11.1 Location:

In driver door -arrow-



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1.11.2 Connector assignment.

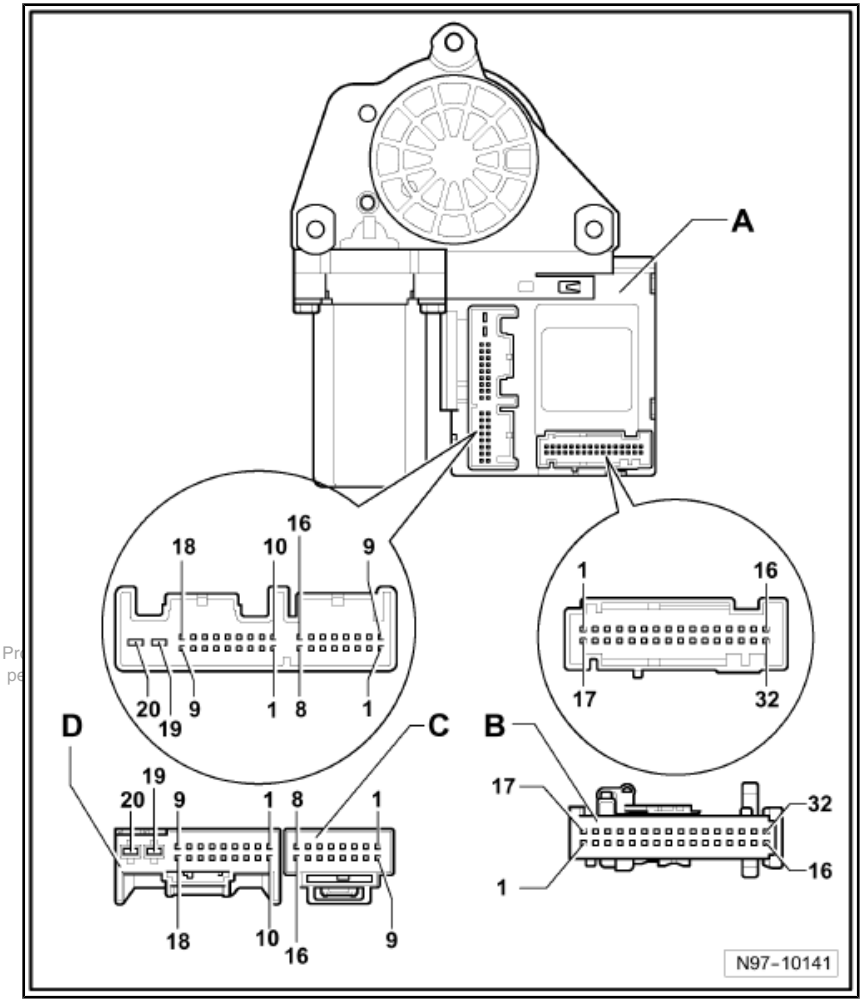
A - Driver door control unit -J386-

Pin connector:

B - 32-pin connector -T32a-

C - 16-pin connector -T16b-

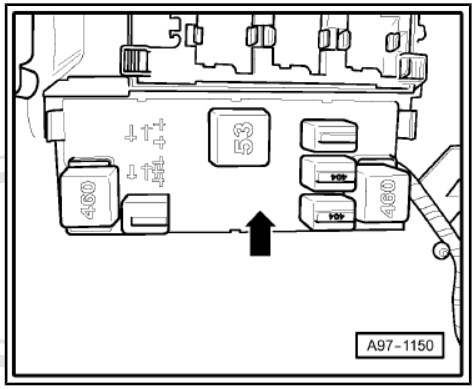
D - 20-pin connector -T20f-



1.12 Onboard supply control unit -J519-

1.12.1 Location:

On left under dash panel, under relay carrier -arrow-



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1.12.2 Connector assignment.

- Onboard supply control unit -J519-

Pin connector:

A - 11-pin connector -T11b-

B - 12-pin connector -T12c-

C - 12-pin connector -T12d-

D - 11-pin connector -T11c-

E - 16-pin connector -T16a-

F - 8-pin connector -T8h-

G - 12-pin connector -T12e-

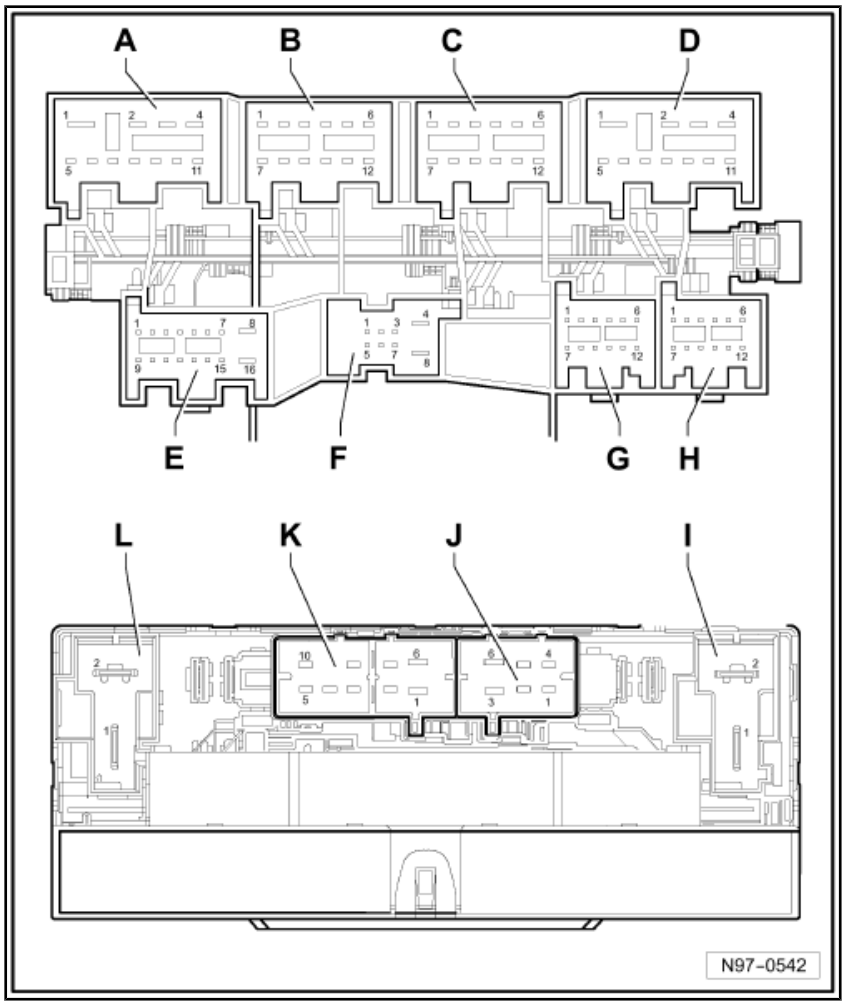
H - 12-pin connector

I - 2-pin connector -T2b-

J - 6-pin connector -T6h-

K - 10-pin connector -T10d-

L - 2-pin connector -T2t-

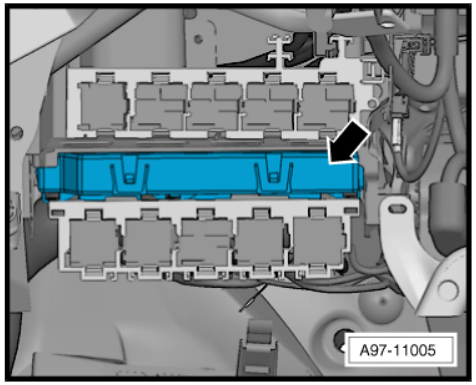


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1.13 Onboard supply control unit -J519-

1.13.1 Location:

Left under dash panel -arrow-



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1.13.2 Connector assignment.

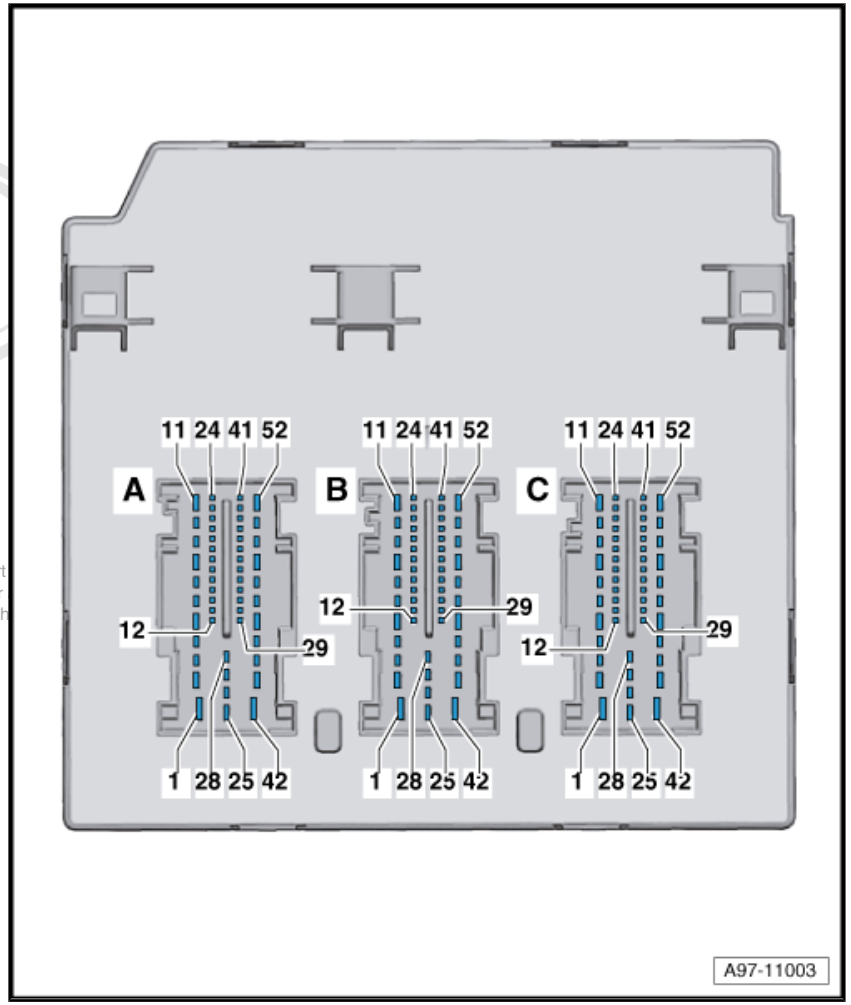
- Onboard supply control unit -J519-

Pin connector:

A - 52-pin connector -T52a-

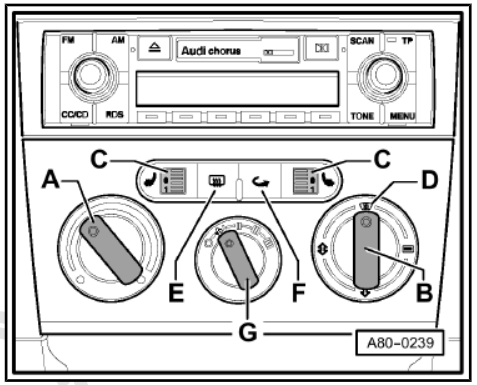
B - 52-pin connector -T52b-

C - 52-pin connector -T52c-



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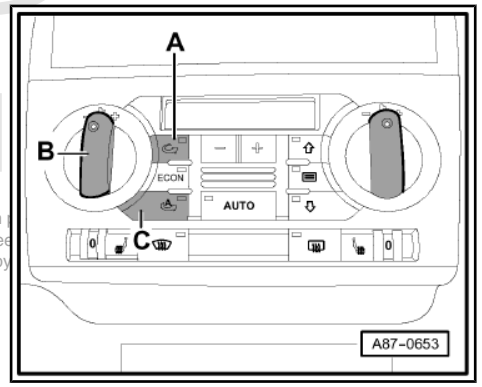
1.14 Heater control unit -J65- / Heater control unit -J162-



1.14.1 Location:

in centre console

1.15 Climatronic control unit -J255-



1.15.1 Location:

in centre console

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1.15.2 Connector assignment.

- Climatronic control unit -J255-

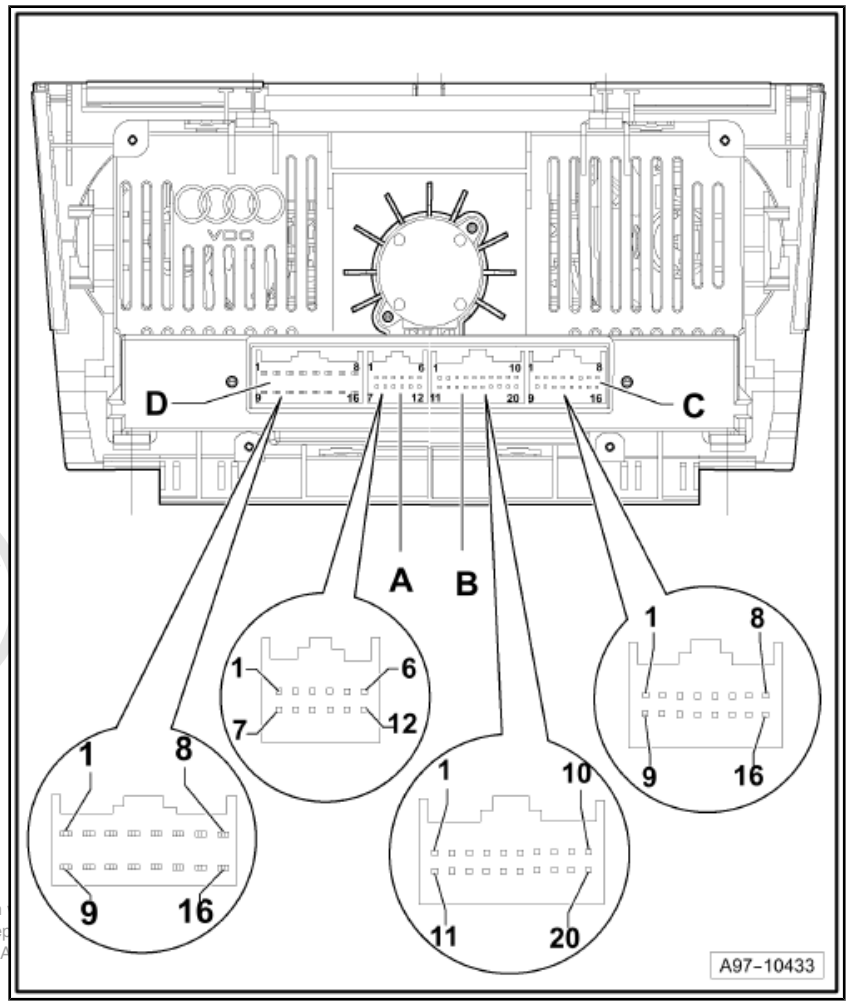
Pin connector:

A - 12-pin connector -T12f-

B - 20-pin connector -T20j-

C - 16-pin connector -T16e-

D - 16-pin connector -T16d-

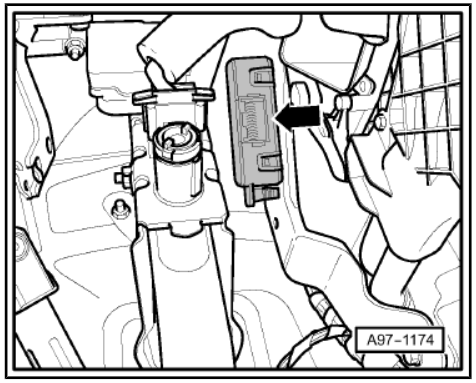


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1.16 Data bus diagnostic interface -J533-

1.16.1 Location:

in left footwell -arrow-



Note

Location of Data bus diagnostic interface -J533- is the same for right and left-hand drive models.

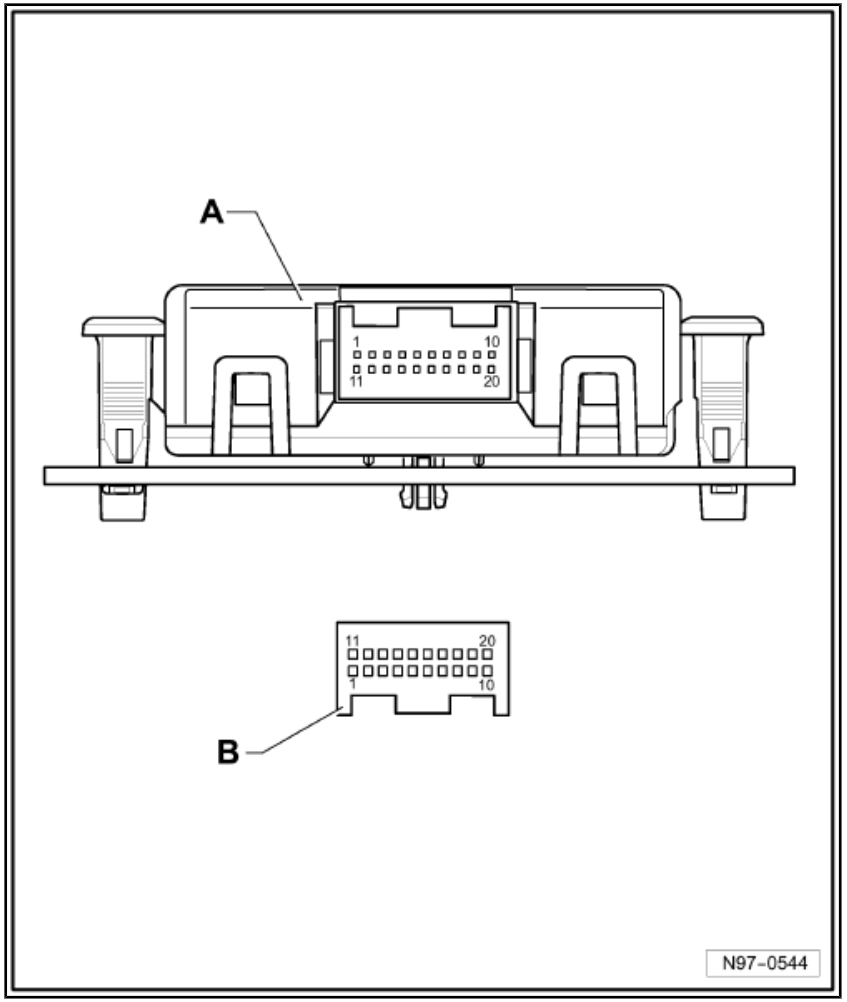
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1.16.2 Connector assignment.

A - Data bus diagnostic interface -J533-

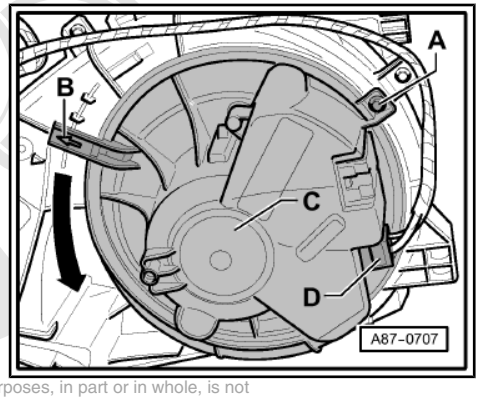
Pin connector:

B - 20-pin connector -T20d-



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1.17 Fresh air blower control unit -J126-

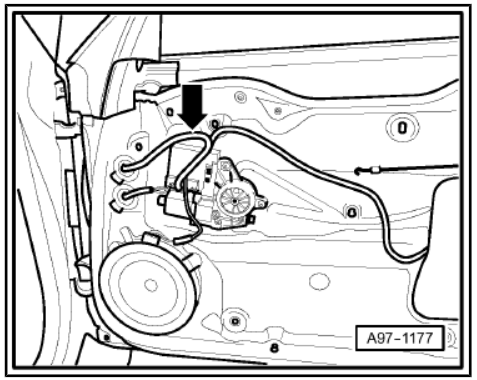


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1.17.1 Location:

Under glove compartment, on Fresh air blower -V2-

1.18 Front passenger door control unit -J387-



1.18.1 Location:

in front passenger door -arrow-

1.18.2 Connector assignment.

A - Front passenger door control unit -J387-

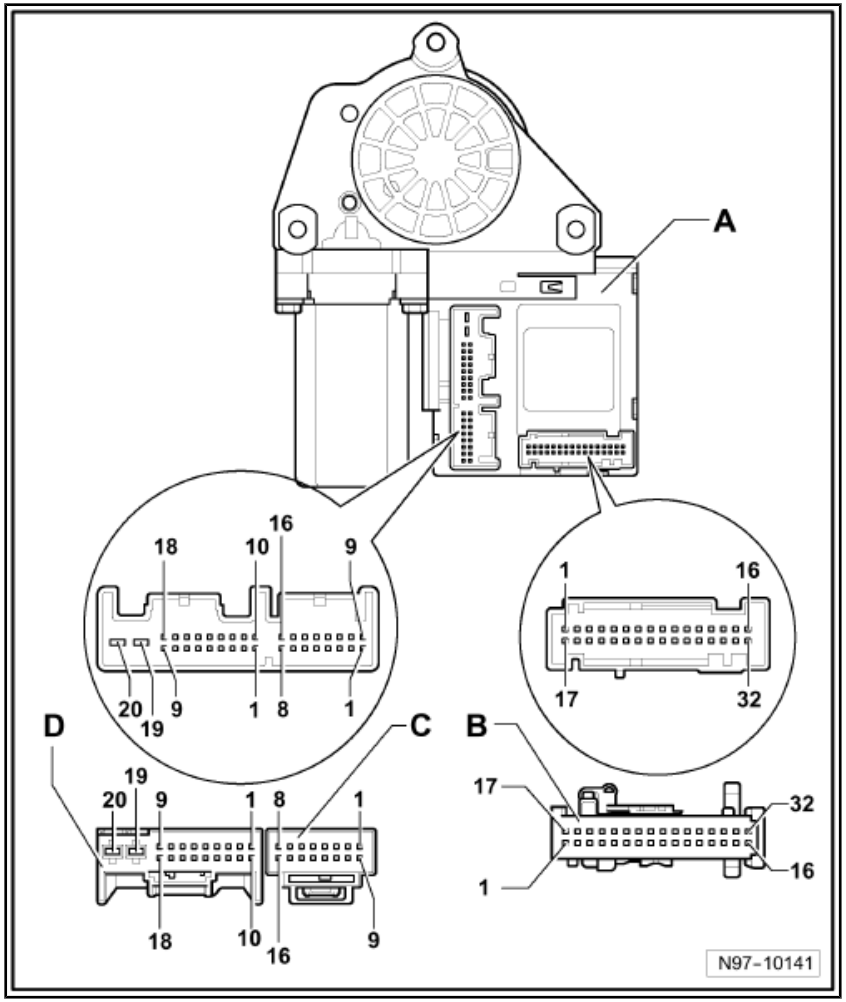
Pin connector:

B - 32-pin connector -T32b-

C - 16-pin connector -T16c-

D - 20-pin connector -T20g-

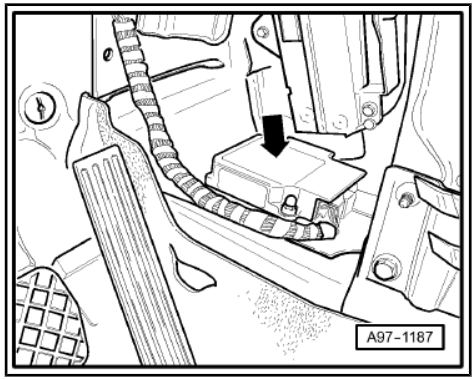
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1.19 Airbag control unit -J234-

1.19.1 Location:

Under centre console -arrow-



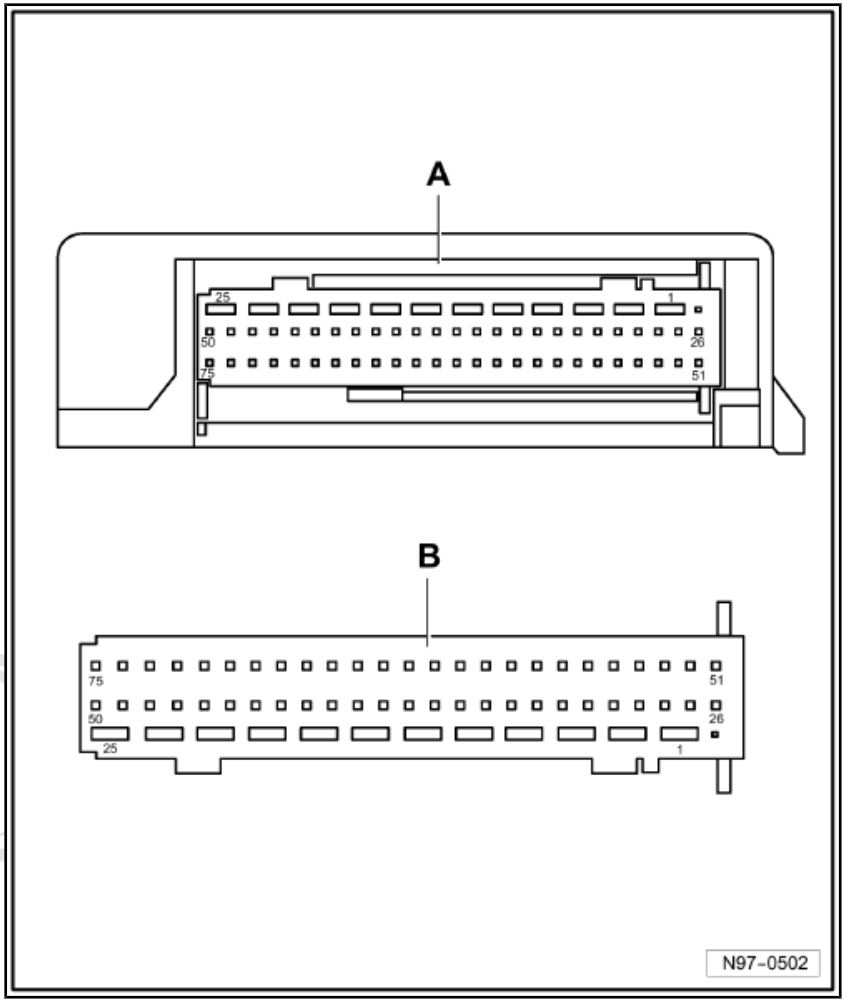
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1.19.2 Connector assignment.

A - Airbag control unit -J234-

Pin connector:

B - 75-pin connector -T75-



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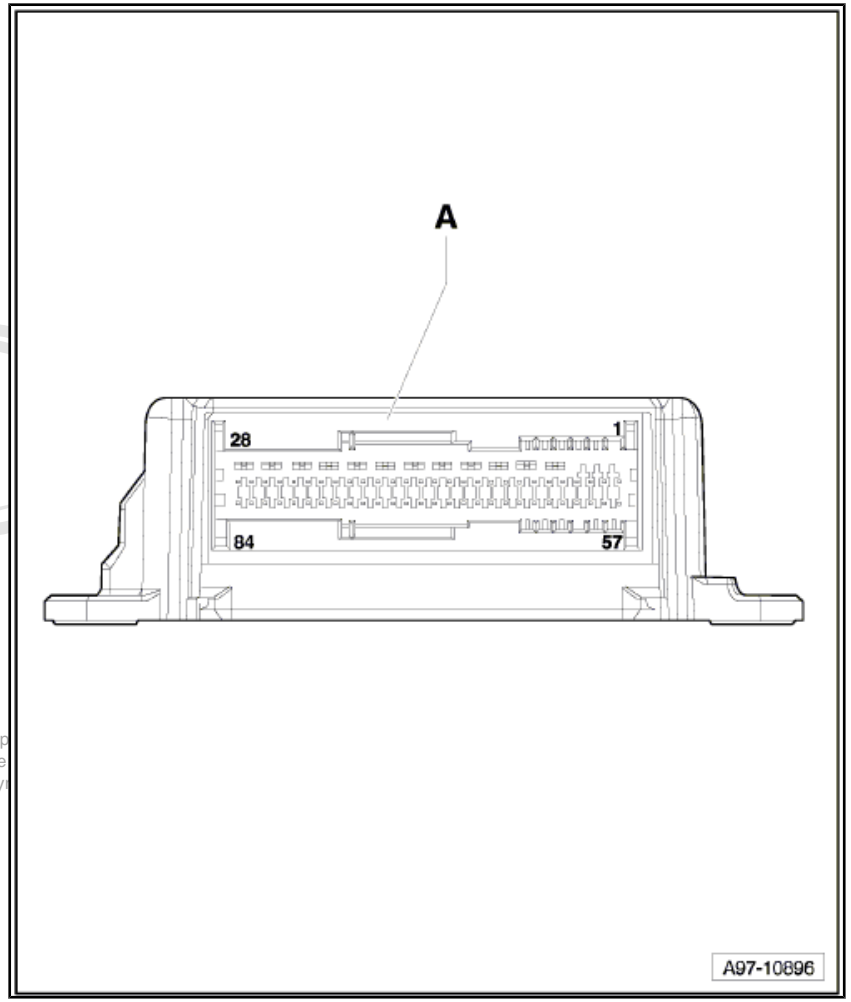
1.19.3 Connector assignment.

- Airbag control unit -J234-

Pin connector:

A - 84-pin connector -T84-

A - 84-pin connector -T84a-



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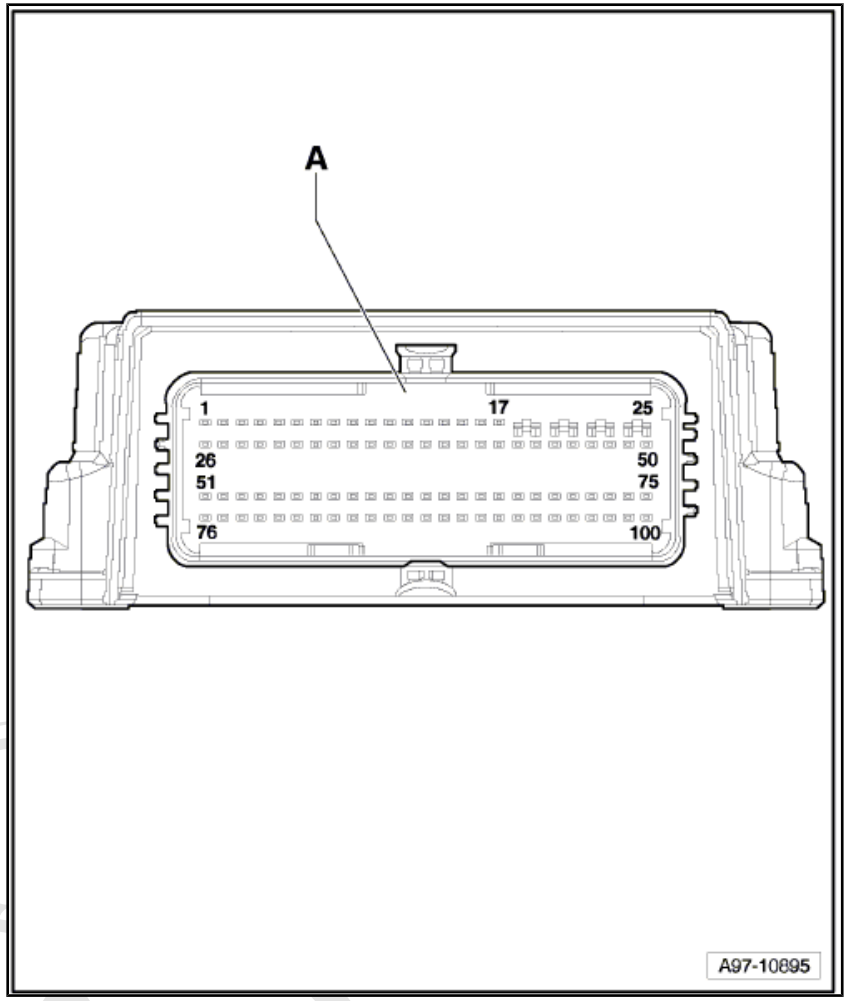
1.19.4 Connector assignment.

- Airbag control unit -J234-

Pin connector:

A - 100-pin connector -T100-

A - 100-pin connector -T100a-

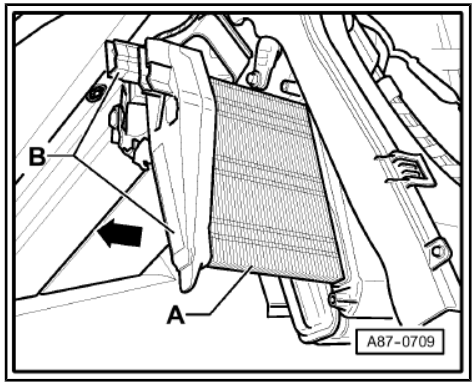


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1.20 Auxiliary air heater control unit -J604-

1.20.1 Location:

on air conditioning system unit, extreme left, next to heat exchanger



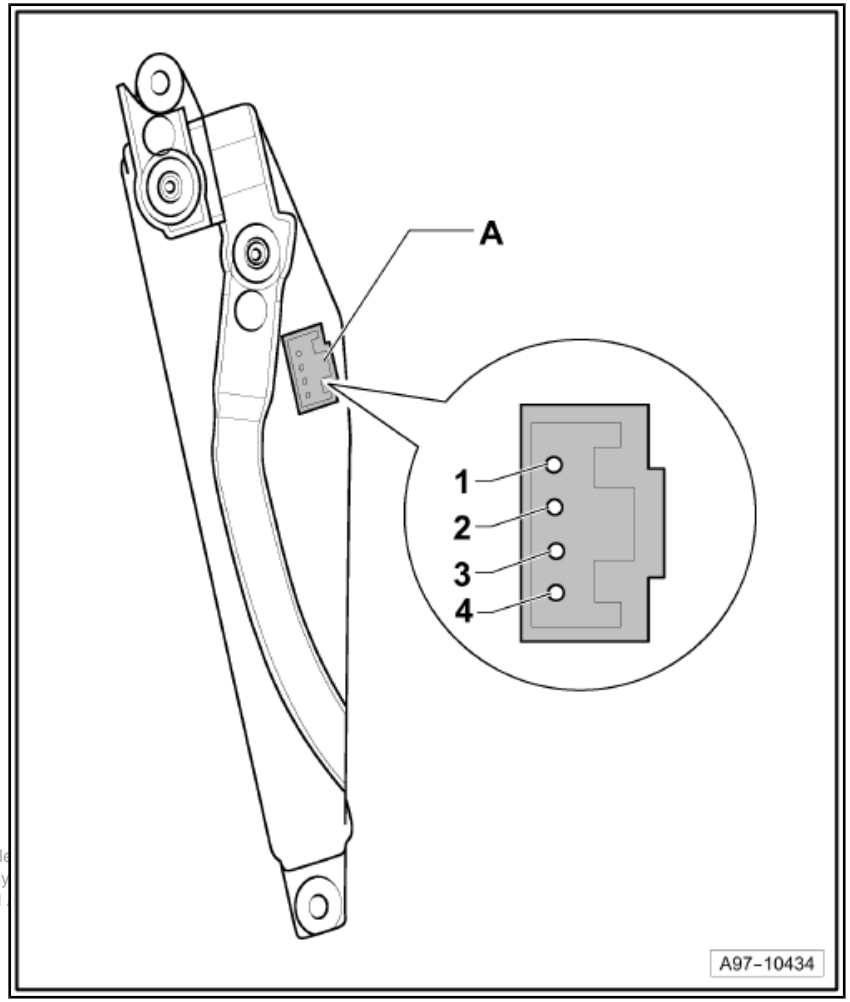
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1.20.2 Connector assignment.

- Auxiliary air heater control unit -J604-

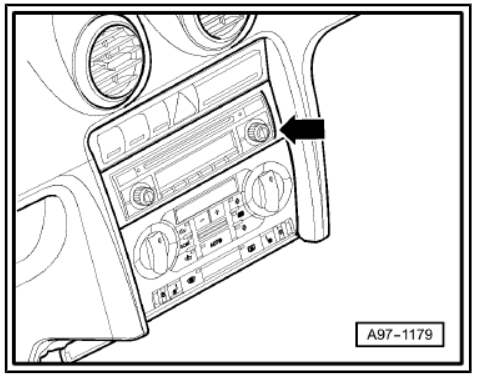
Pin connector:

A - 4-pin connector -T4l-



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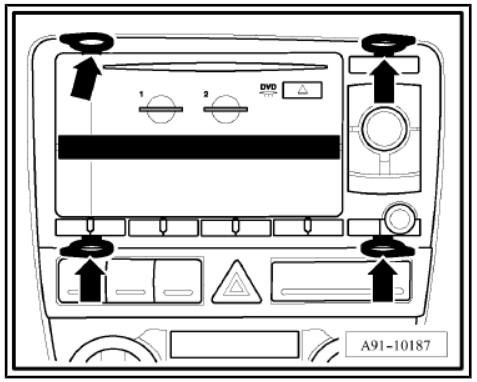
1.21 Radio -R- / Control unit with display for radio and navigation system -J503- (RNS-low)



1.21.1 Location:

In centre console -arrow-

1.22 Navigation operating electronics control unit -J402- (RNS-E)

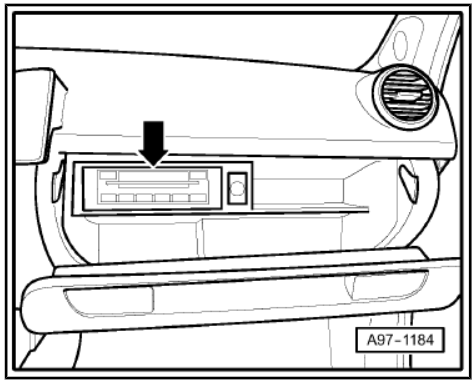


1.22.1 Location:

in centre console

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1.23 CD changer -R41-

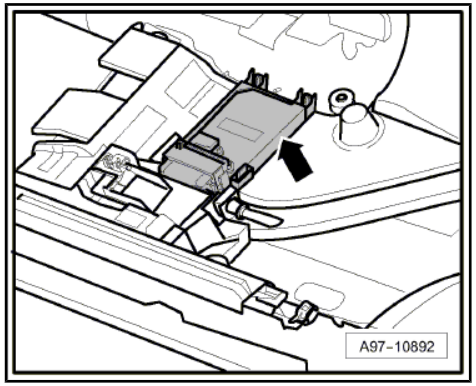


1.23.1 Location:

In glove box -arrow-

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1.24 Electronically controlled damping control unit -J250-



1.24.1 Location:

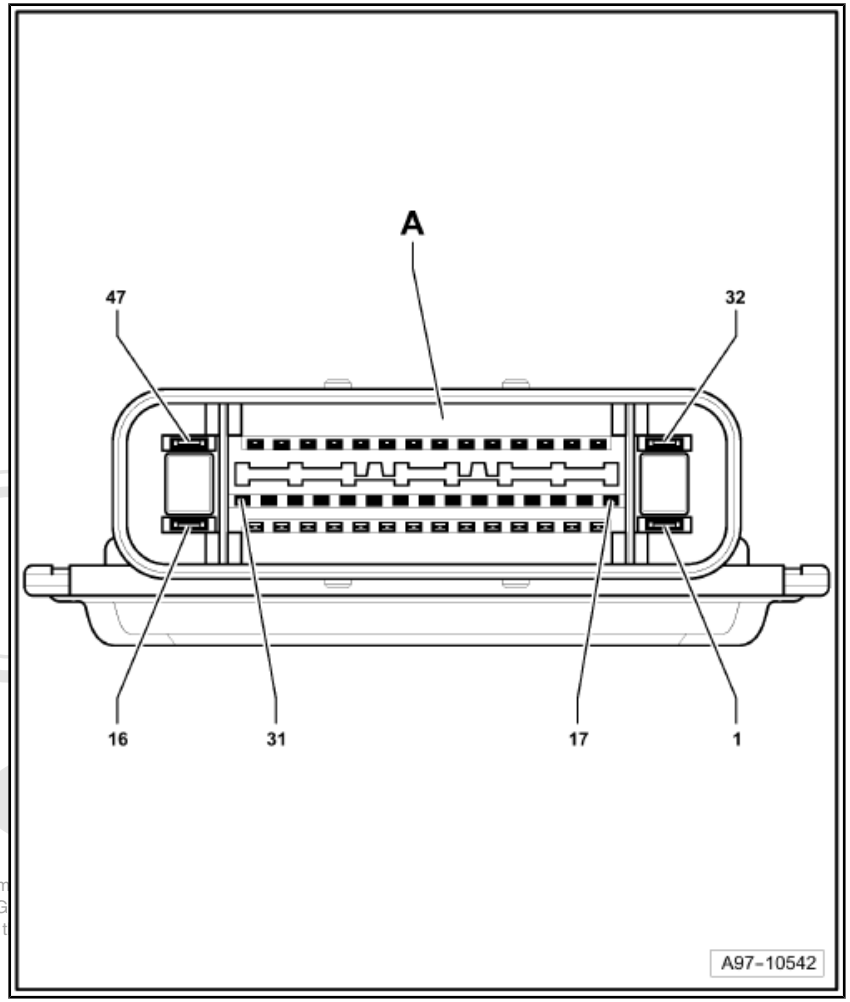
Under front passenger seat -arrow-

1.24.2 Connector assignment.

- Electronically controlled damping control unit -J250-

Pin connector:

A - 47-pin connector -T47-

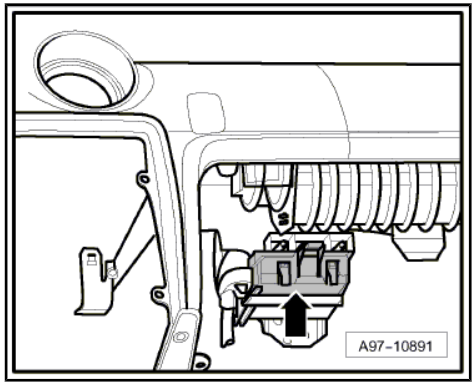


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1.25 Tyre pressure monitor control unit -J502-

1.25.1 Location:

Behind the glove compartment -arrow-



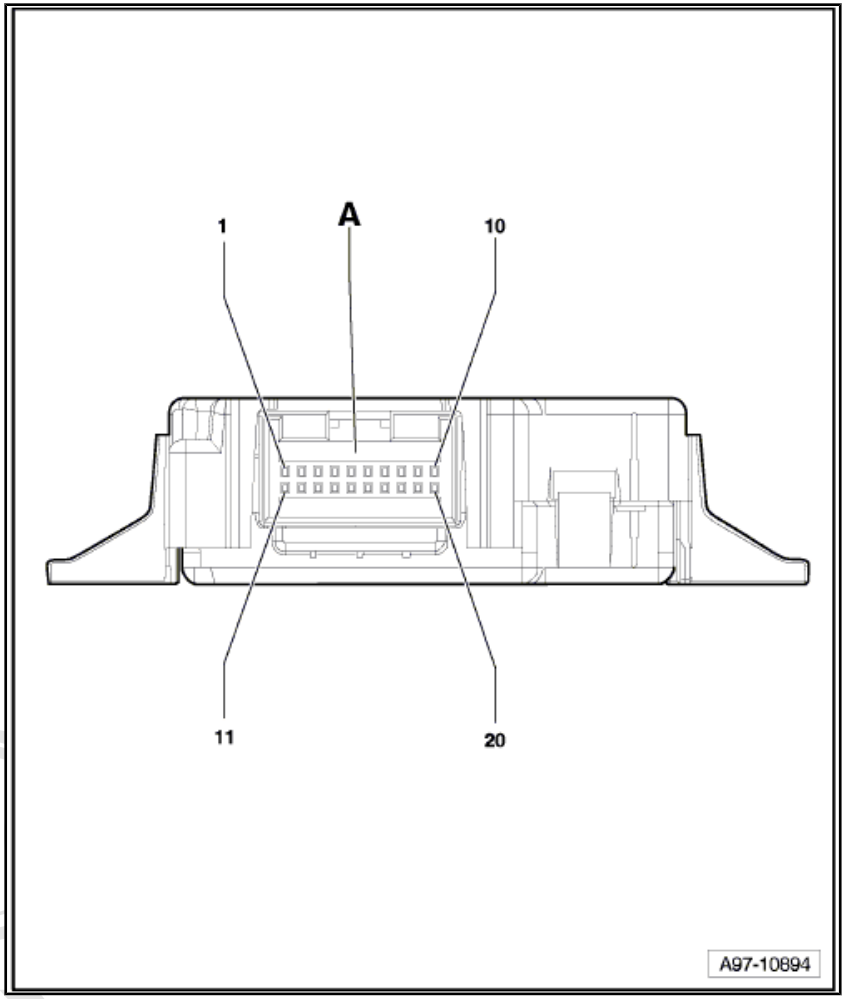
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1.25.2 Connector assignment.

- Tyre pressure monitor control unit -J502-

Pin connector:

A - 20-pin connector -T20q-

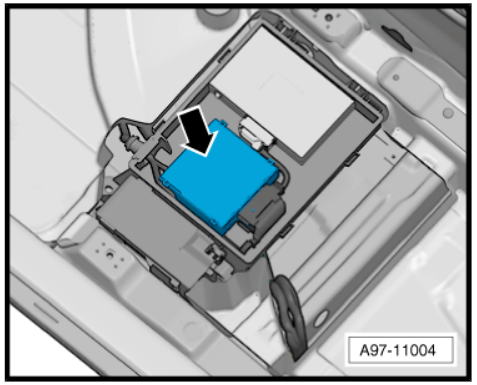


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1.26 Voltage stabiliser -J532-

1.26.1 Location:

Under driver seat -arrow-



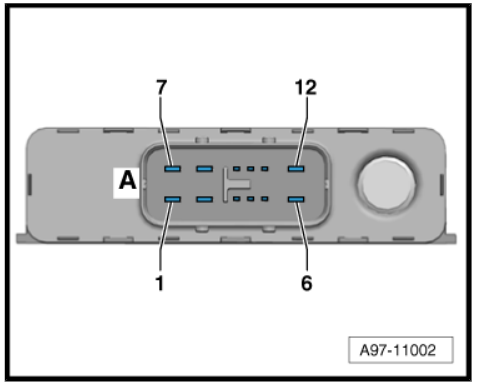
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1.26.2 Connector assignment.

- Voltage stabiliser -J532-

Pin connector:

A - 12-pin connector -T12x-



1 Control units in rear part of vehicle

1.1 Overview of control units

1 -
Control units on right in luggage compartment

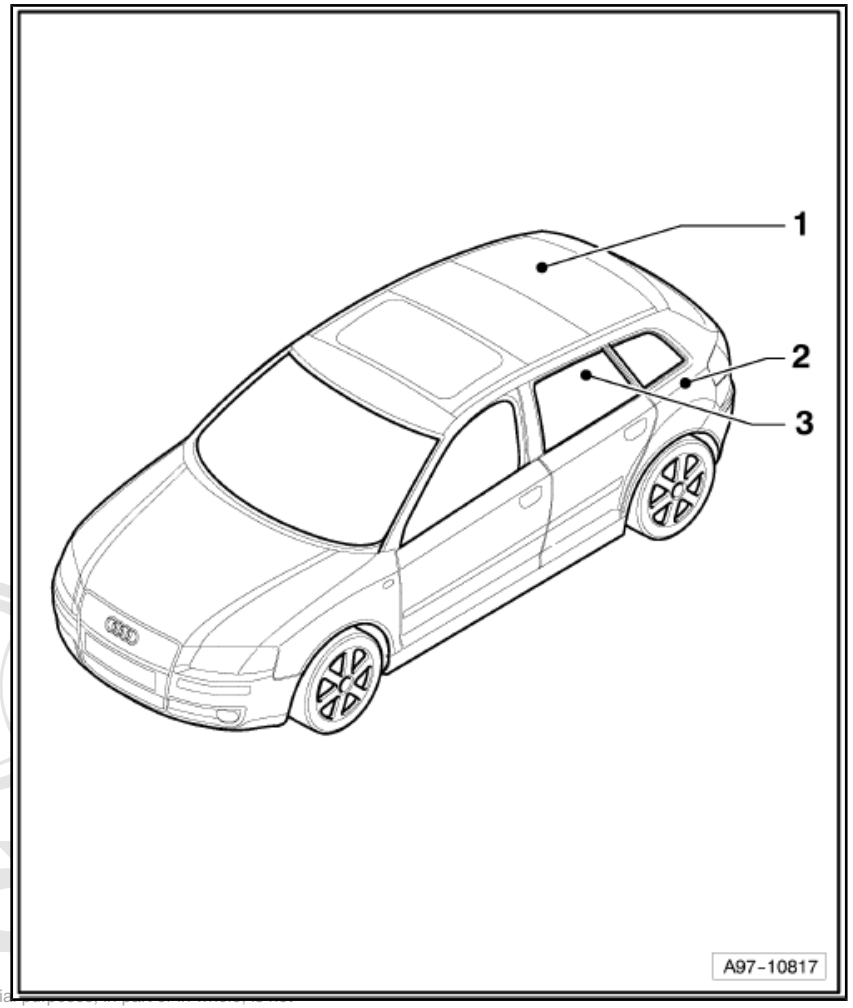
- Components: -J345-, -J393-, -J446-
- Location ⇒ page 2
- Connector assigment -J345- ⇒ page 3
- Connector assigment -J393- ⇒ page 4
- Connector assigment -J446- ⇒ page ⇒ page 5

2 -
Control units on left in luggage compartment

- Components: -J401-, -J415-, -R86-, -R146-
- Location from -J401- ⇒ page 6
- Location from -J415- ⇒ page 7
- Location from -R86- ⇒ page 6
- Location from -R146- ⇒ page 7

3 - All-wheel drive control unit -J492-

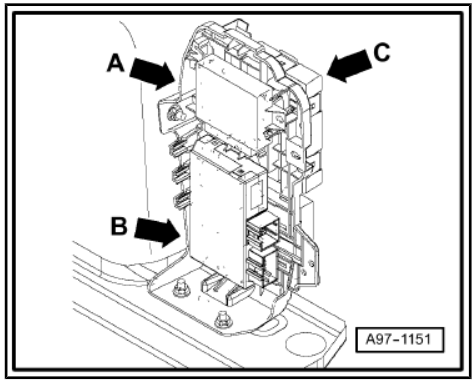
- Location ⇒ page 8
- Connector assigment ⇒ page 9



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1.2 Control units on right in luggage compartment

1.2.1 Location:



A - Parking aid control unit -J446-

B - Trailer detector control unit -J345-

C - Convenience system central control unit -J393-

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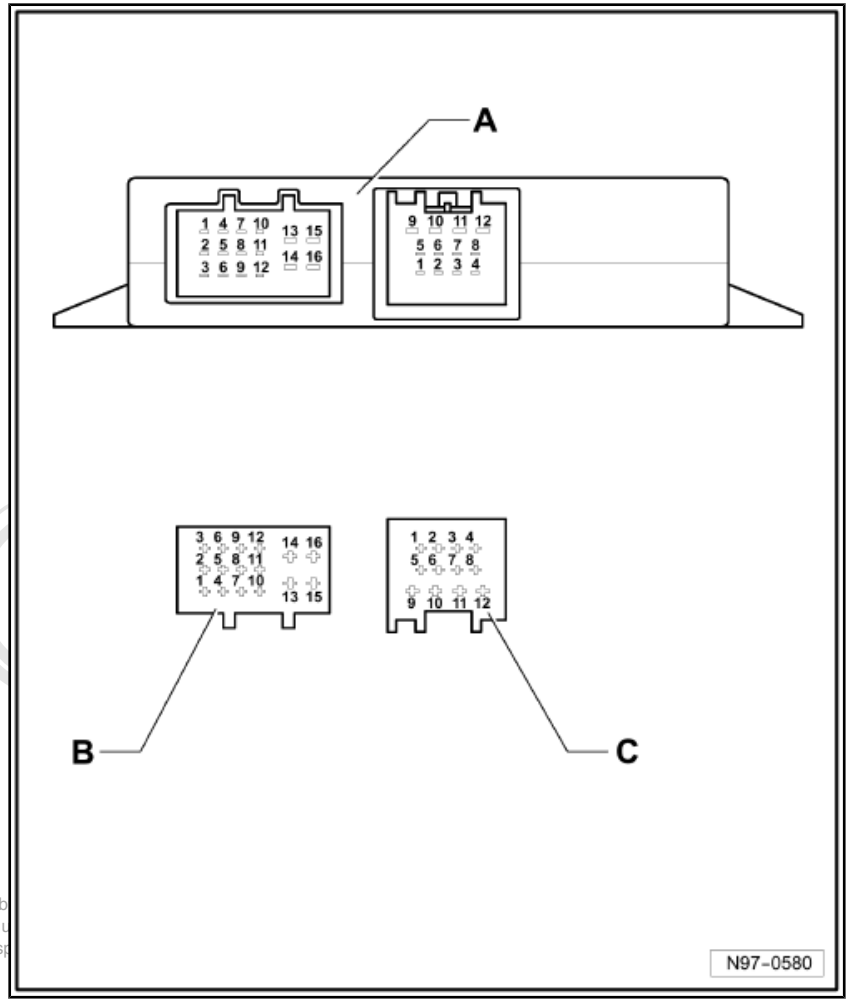
1.2.2 Connector assignment.

A - Trailer detector control unit -J345-

Pin connector:

B - 16-pin connector, black -T16h-

C - 12-pin connector, red -T12h-



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1.2.3 Connector assignment.

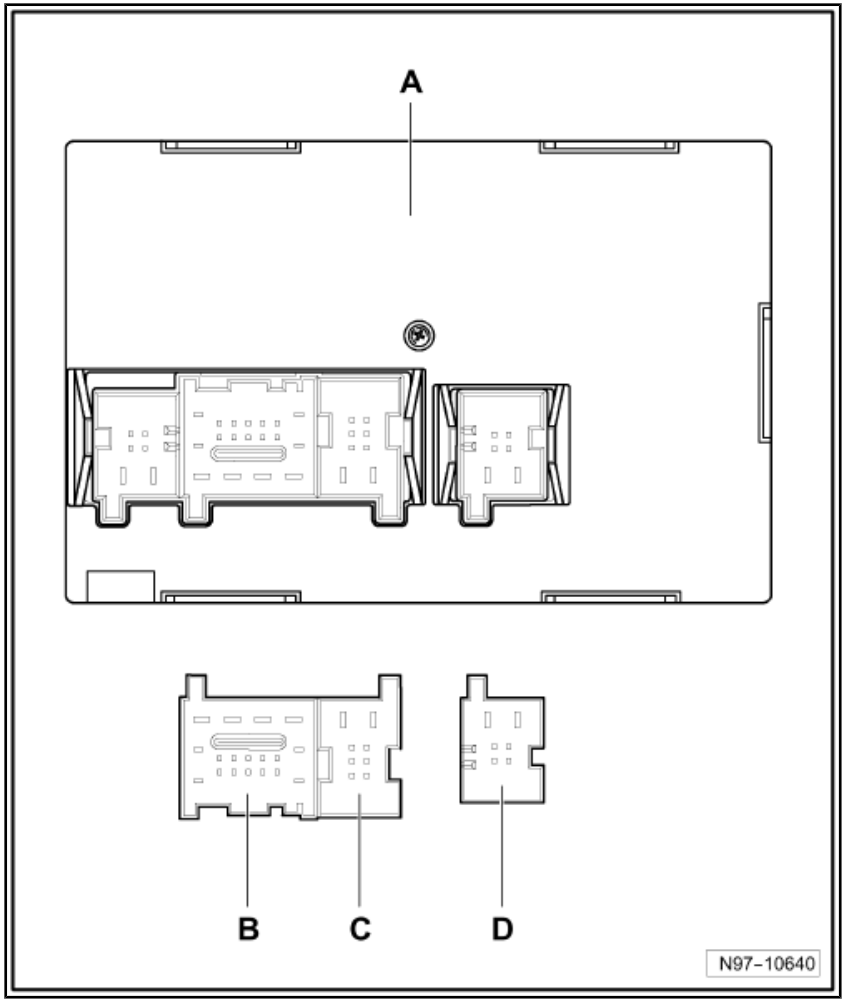
A - Convenience system central control unit -J393-

Pin connector:

B - 18-pin connector, brown -T18-

C - 8-pin connector, black -T8g-

D - 6-pin connector, black -T6g-



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1.2.4 Connector assignment.

A - Parking aid control unit -J446-

Pin connector (4 channel parking aid):

B - 16-pin connector, brown -T16f-

C - Not assigned

D - 12-pin connector, black -T12i-

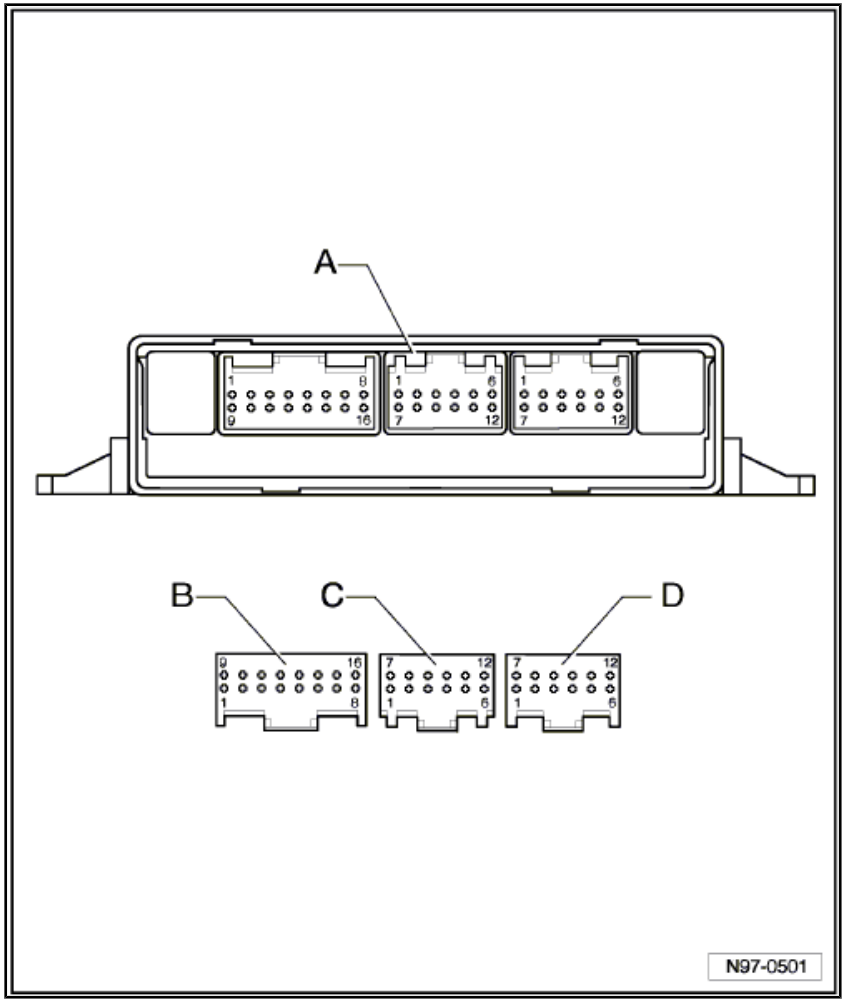
Pin connector (8 channel parking aid):

B - 16-pin connector, brown -T16f-

C - 12-pin connector, brown -T12t-

D - 12-pin connector, black -T12i-

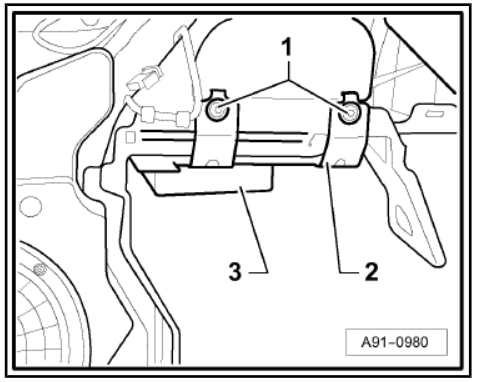
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1.3 Control units on left in luggage compartment

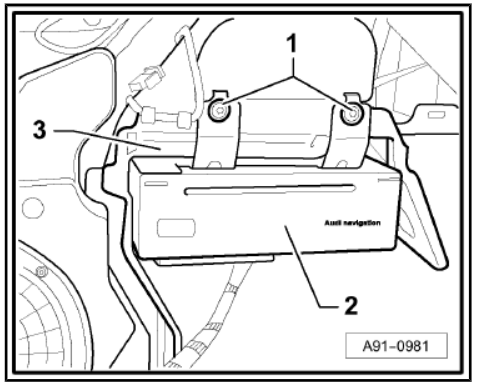
1.3.1 Location:

3 - Aerial amplifier for mobile telephone - R86



1.3.2 Location:

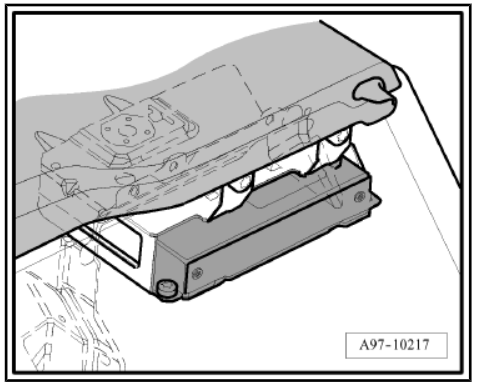
2 - Navigation system with CD drive control unit (NS-low) -J401-



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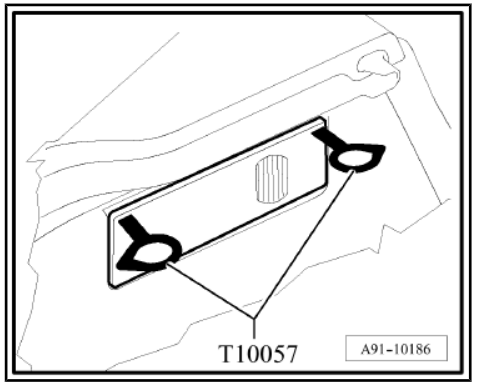
1.3.3 Location:

Satellite radio - R146



1.3.4 Location:

Navigation system tuner for TV -J415-

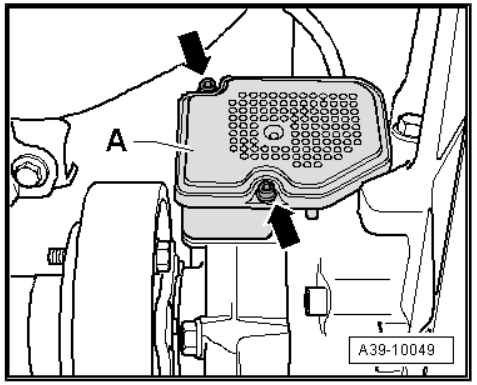


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1.4 All-wheel drive control unit -J492-

1.4.1 Location:

on rear axle differential, front left



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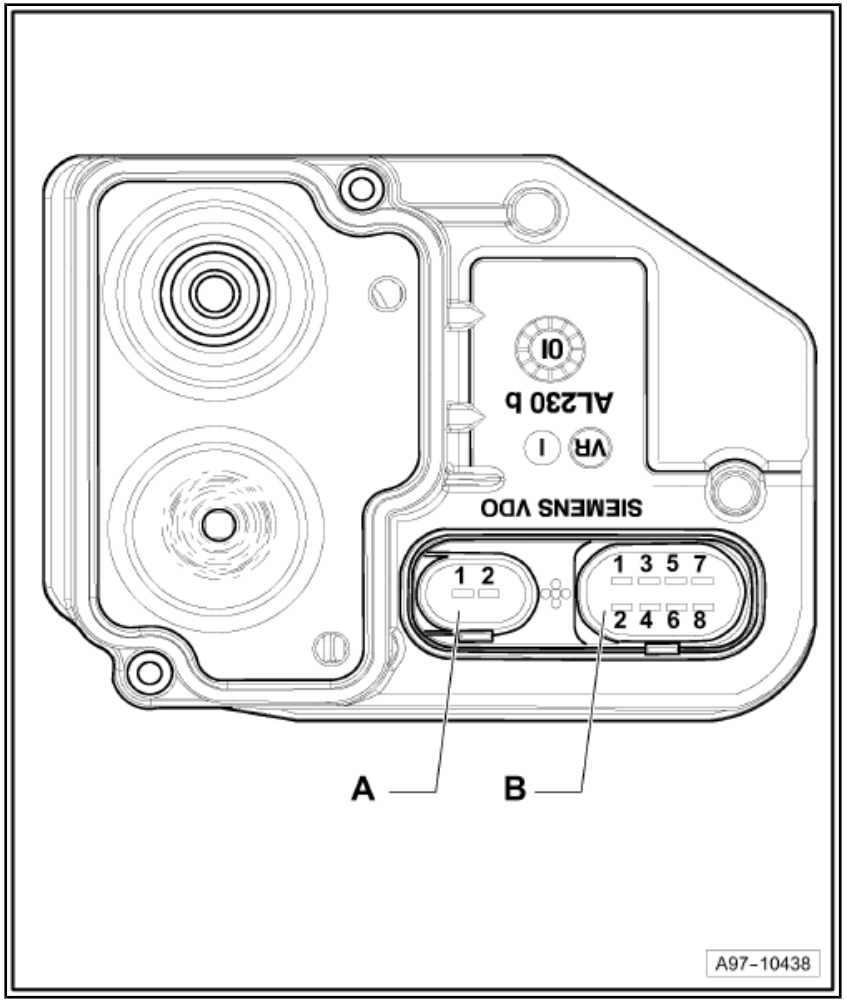
1.4.2 Connector assignment.

- All-wheel drive control unit -J492-

Pin connector:

A - 2-pin connector -T2ax-

B - 8-pin connector, black -T8y-



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