

Section : Body
Electrical

Hilux Surf-Vigo

Date : Jul., 2000

Page : 1 of 1

Area Application : Others(Latin America)

Model Name : 4RUNNER

Model Code : RZN180, 185, VZN180, 185, KZN185

Subject : ELECTRICAL WIRING DIAGRAM

Due to the change in 4Runner from August, 2000, the attached Electrical Wiring Diagram will be applied to the following manuals.

Pub. No.	Publication Name
EWD265F	4RUNNER Electrical Wiring Diagram
EWD363F	4RUNNER Electrical Wiring Diagram Supplement

Production Effective :

Frame No.	Production Date
---	From August, 2000

INDEX

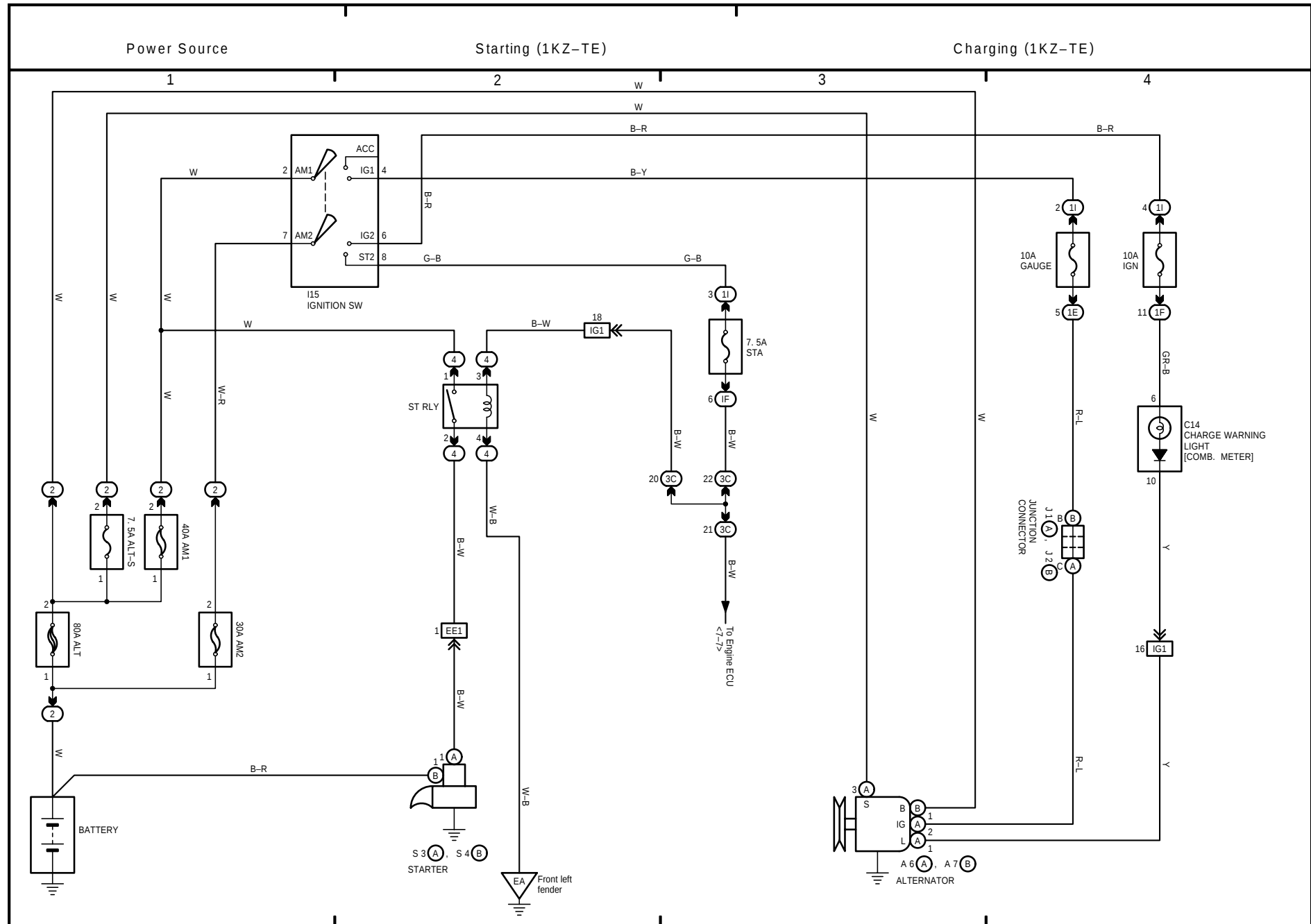
	Page
OVERALL ELECTRICAL WIRING DIAGRAM	2
	Location
ABS	21 - 2
Air Conditioner (Manual A/C)	28 - 2
Auto Antenna	24 - 2
Automatic Air Conditioner	27 - 2
Back-Up Light	10 - 3
Charging (1KZ-TE)	2 - 3
Charging (5VZ-FE, 3RZ-FE)	1 - 3
Cigarette Lighter and Clock	17 - 3
Combination Meter (1KZ-TE)	26 - 2
Combination Meter (5VZ-FE, 3RZ-FE)	25 - 2
Cruise Control (5VZ-FE)	20 - 2
ECT and A/T Indicator (5VZ-FE)	8 - 2
Engine Control (1KZ-TE)	7 - 2
Engine Control (3RZ-FE 2WD)	6 - 2
Engine Control (3RZ-FE 4WD)	5 - 2
Engine Control and Engine Immobiliser System (5VZ-FE)	4 - 2
Front Wiper and Washer	18 - 2
Headlight	9 - 2
Ignition (3RZ-FE)	3 - 3
Ignition (5VZ-FE)	3 - 2
Illumination	11 - 2
Interior Light	13 - 3
Key Reminder and Seat Belt Warning	13 - 2
Light Auto Turn Off	19 - 2
Moon Roof	19 - 3
Multiplex Communication System	14 - 2
* Door Lock Control	
* Horn	
* Power Window (Rear), Rear Wiper and Washer	
* Rear Window Defogger and Mirror Heater	
* Theft Deterrent	
* Wireless Door Lock Control	
Power Outlet	22 - 4
Power Source	1~28 - 1
Power Window	15 - 2
Radio and Player	24 - 3
Remote Control Mirror	16 - 2
SRS	22 - 2
Starting (1KZ-TE)	2 - 2
Starting (5VZ-FE, 3RZ-FE)	1 - 2
Stop Light	9 - 3
Taillight	10 - 2
Turn Signal and Hazard Warning Light	12 - 2
4WD	23 - 2
CONNECTOR LIST	42

The diagram is divided into three main functional areas: Power Source, Starting (5VZ-FE, 3RZ-FE), and Charging (5VZ-FE, 3RZ-FE).

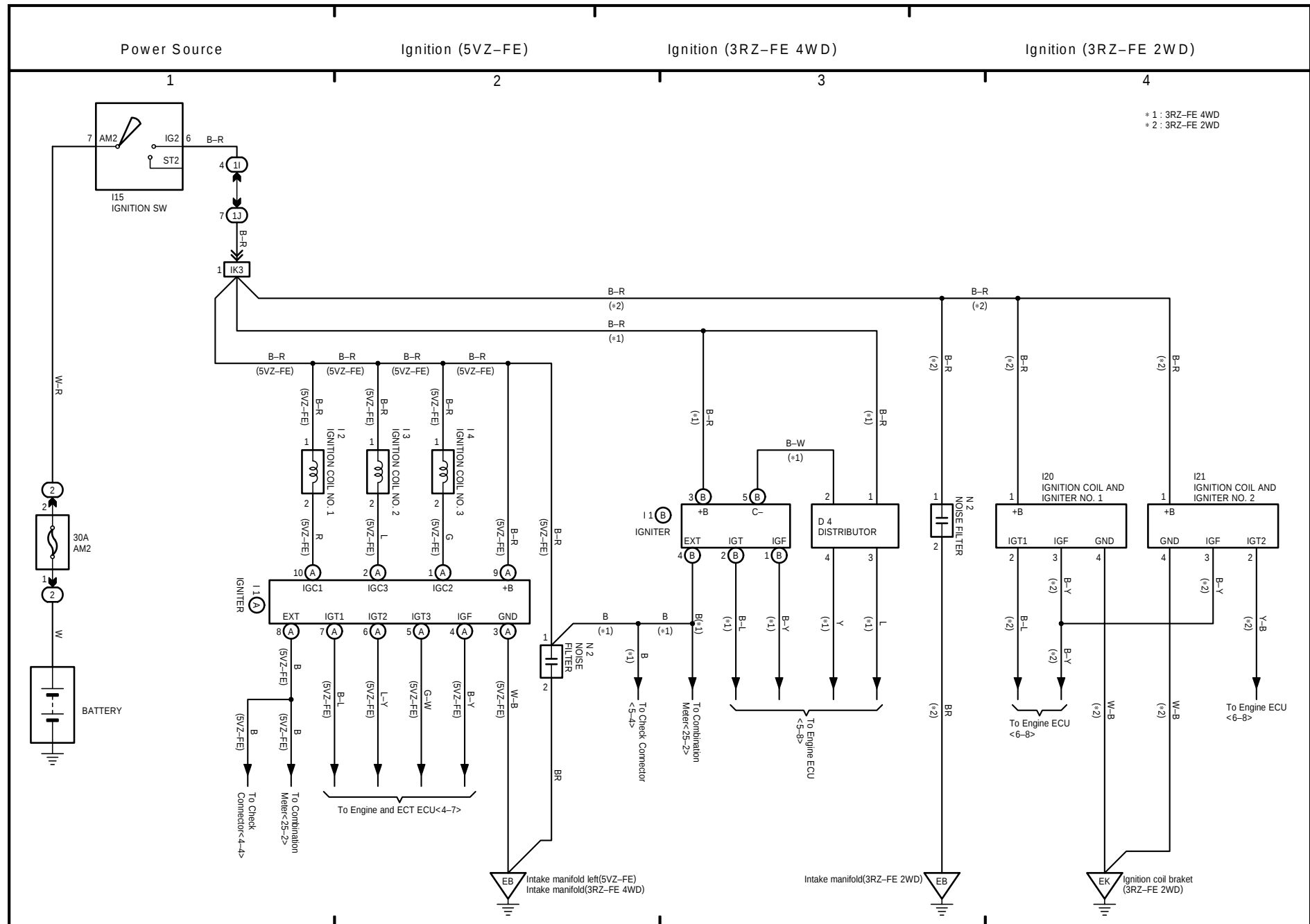
- Power Source:** Shows the battery connected to the alternator. The alternator's output (W) is routed through a 120A ALT fuse and a 30A AM2 fuse to the battery. A 7.5A ALT-S fuse is also shown.
- Starting (5VZ-FE, 3RZ-FE):** Details the ignition and starting system. The ignition switch (I15) controls the ignition coils (IG1, IG2) and the starter relay. The starter relay is connected to the battery through a 40A AM1 fuse. The starter motor is connected to the battery through a 30A AM2 fuse. The diagram also shows the neutral start switch (N1) and the combination meter.
- Charging (5VZ-FE, 3RZ-FE):** Shows the alternator's output (W) connected to the battery. The output is also connected to the combination meter through a junction connector. The diagram includes a 10A gauge and a 10A IGN fuse.

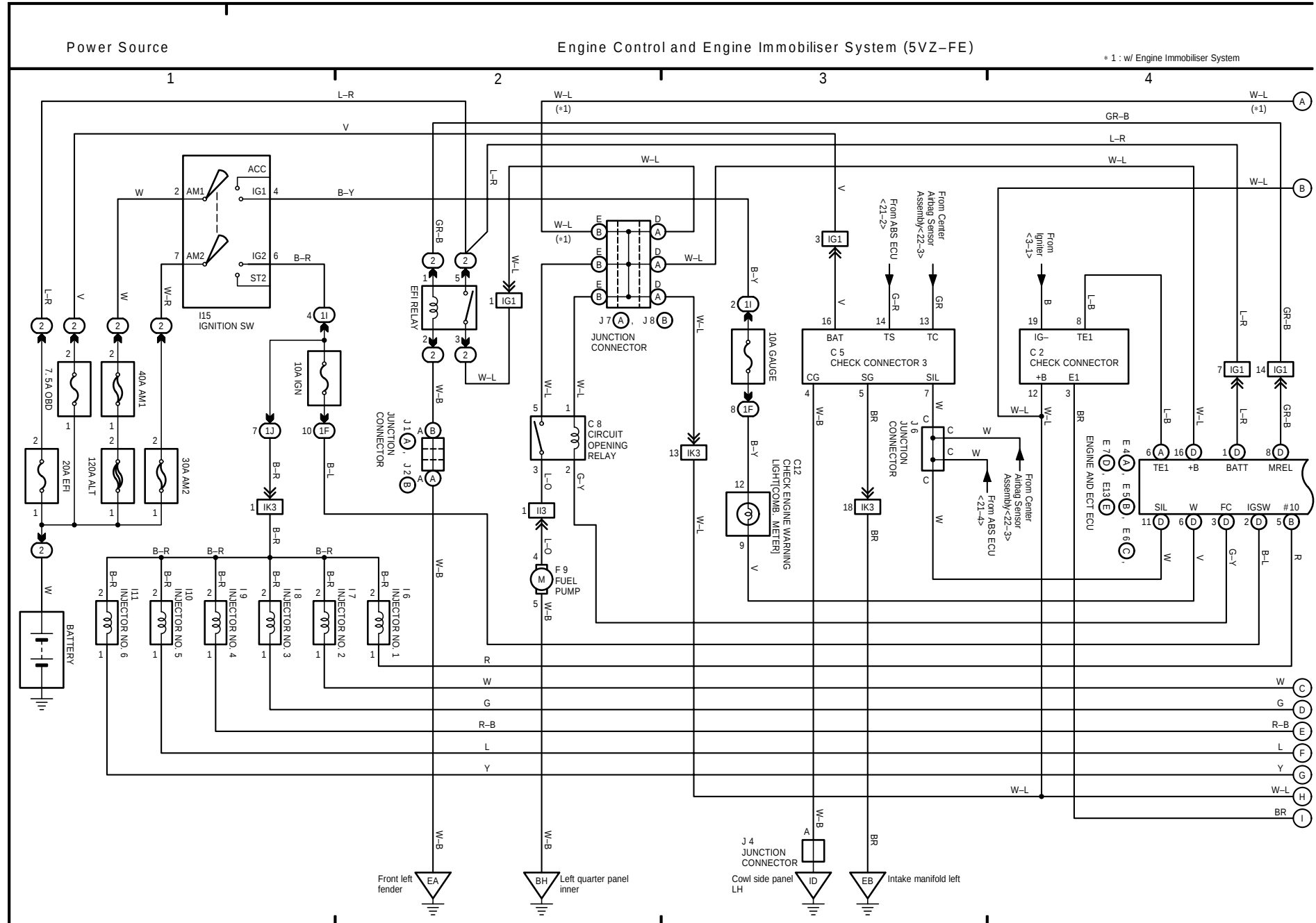
The diagram uses color-coded wires (W, B, G, Y, R, L, A, S, P, N, IG, ST, ACC, IG1, IG2, ST2, AM1, AM2, EA1, EA2, EA3, EA4, EA5, EA6, EA7, EA8, EA9, EA10, EA11, EA12, EA13, EA14, EA15, EA16, EA17, EA18, EA19, EA20, EA21, EA22, EA23, EA24, EA25, EA26, EA27, EA28, EA29, EA30, EA31, EA32, EA33, EA34, EA35, EA36, EA37, EA38, EA39, EA40, EA41, EA42, EA43, EA44, EA45, EA46, EA47, EA48, EA49, EA50, EA51, EA52, EA53, EA54, EA55, EA56, EA57, EA58, EA59, EA60, EA61, EA62, EA63, EA64, EA65, EA66, EA67, EA68, EA69, EA70, EA71, EA72, EA73, EA74, EA75, EA76, EA77, EA78, EA79, EA80, EA81, EA82, EA83, EA84, EA85, EA86, EA87, EA88, EA89, EA90, EA91, EA92, EA93, EA94, EA95, EA96, EA97, EA98, EA99, EA100) and standard electrical symbols for fuses, relays, switches, and components.

1
3
1



- 4 -

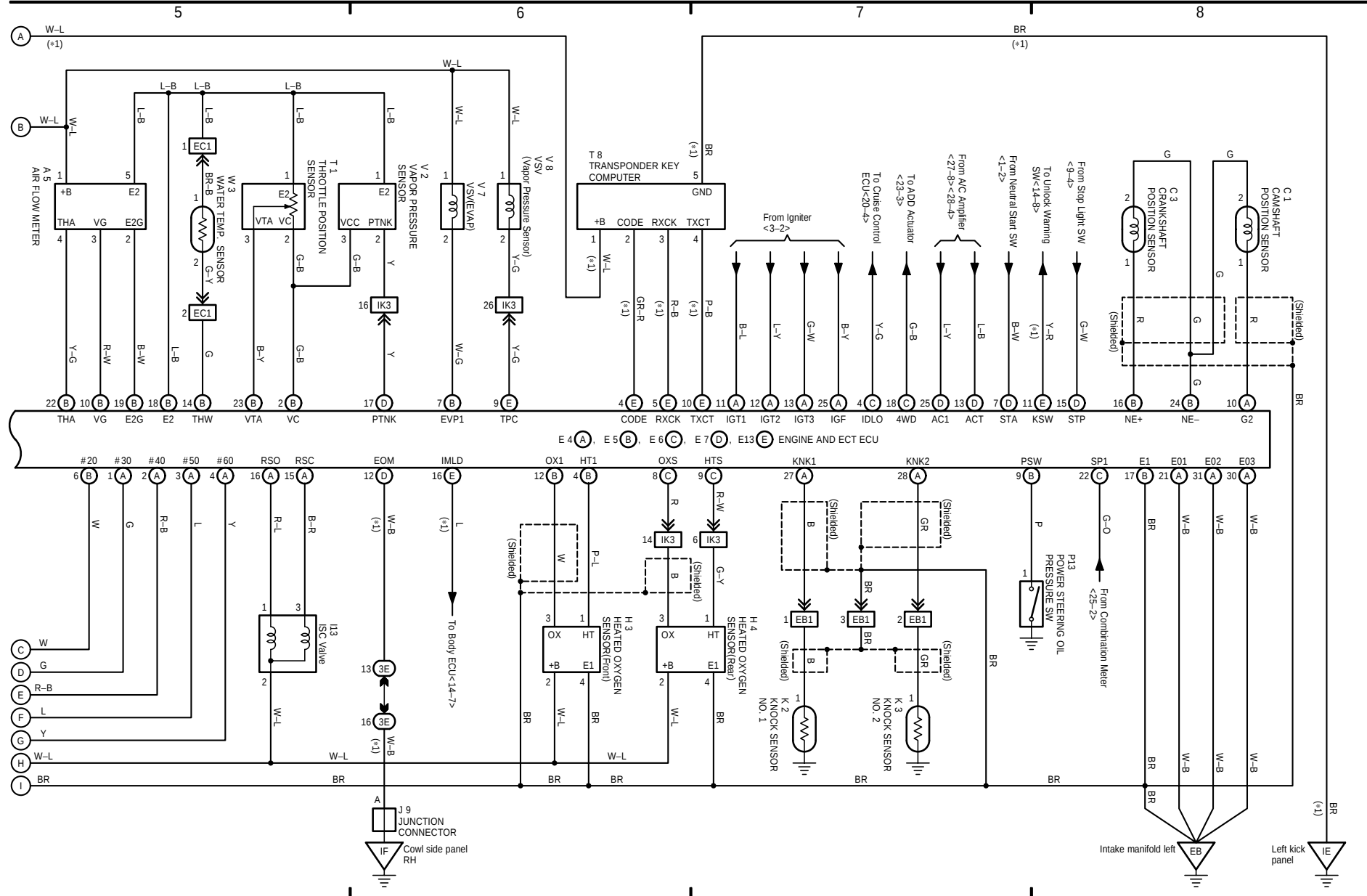


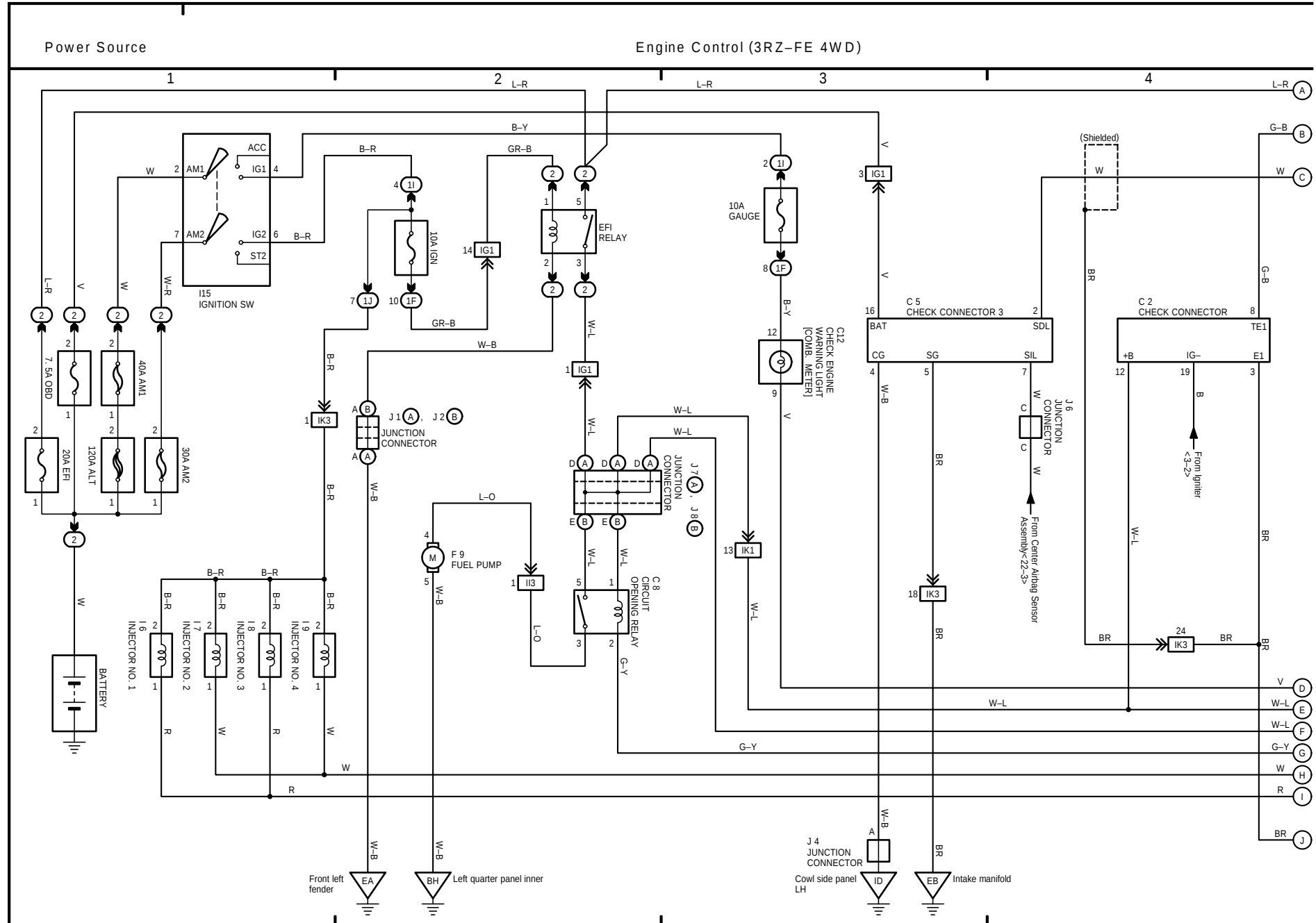


4 4RUNNER (Cont' d)

Engine Control and Engine Immobiliser System (5VZ-FE)

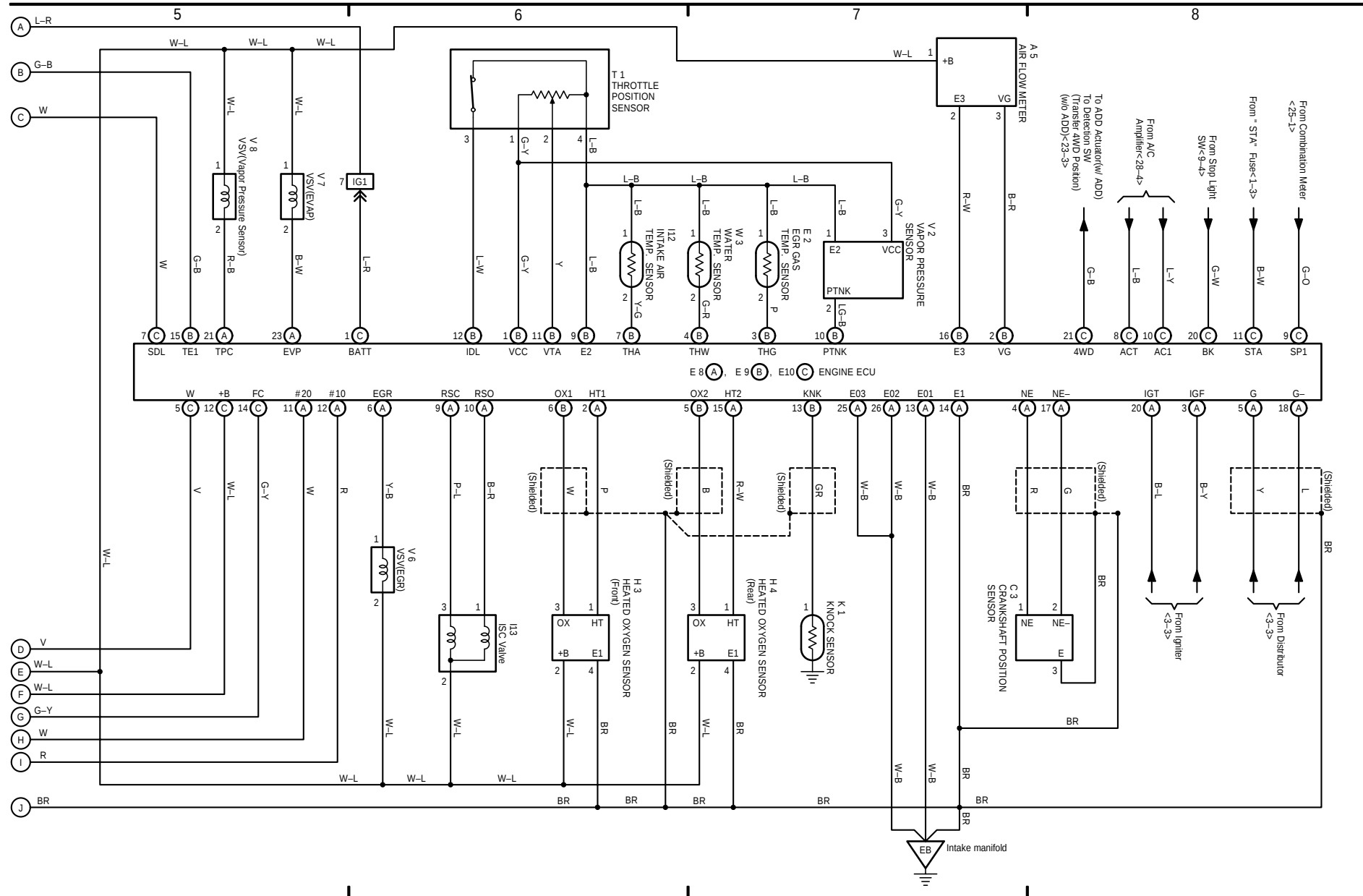
* 1 : w/ Engine Immobiliser System

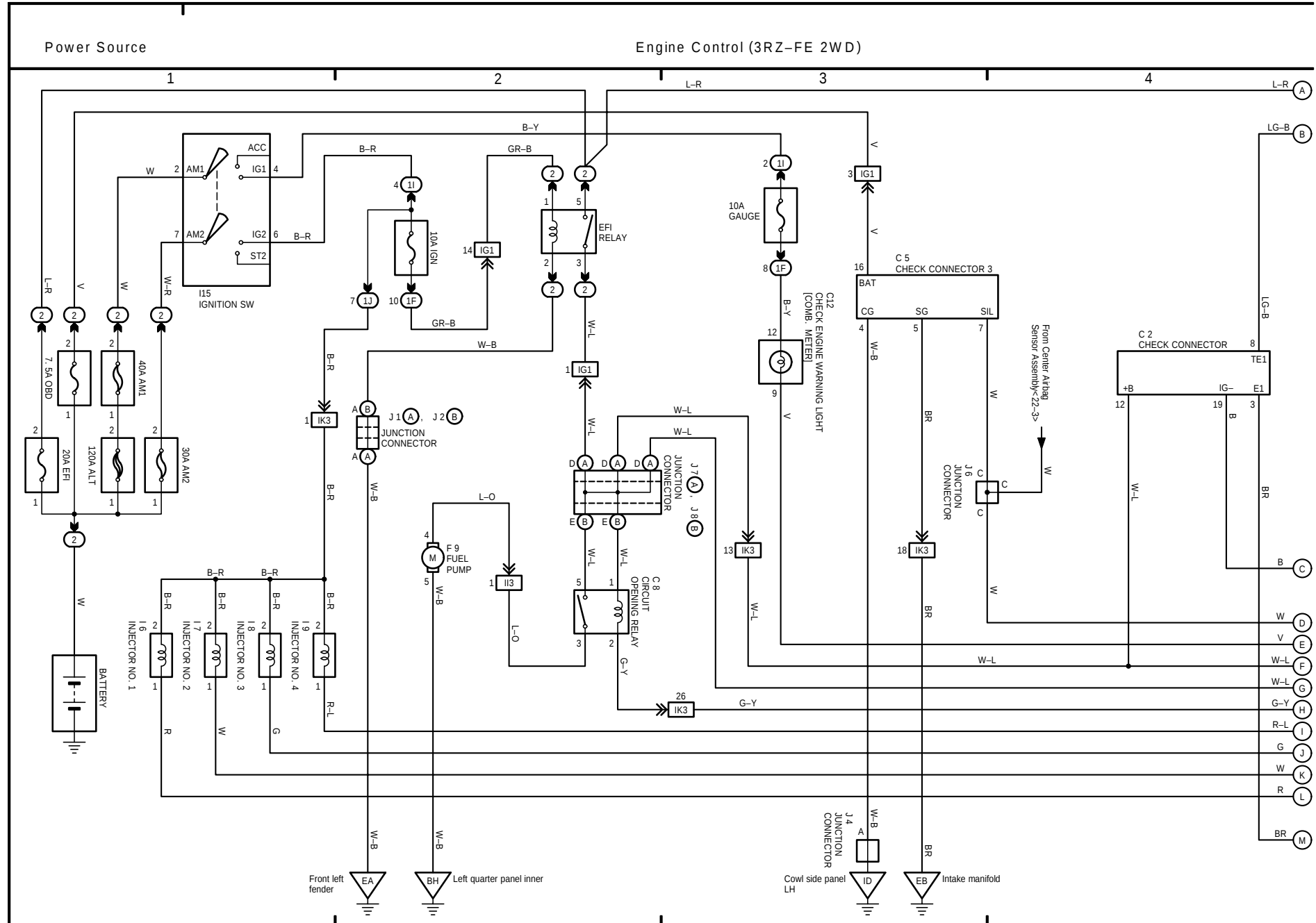




5 4RUNNER (Cont' d)

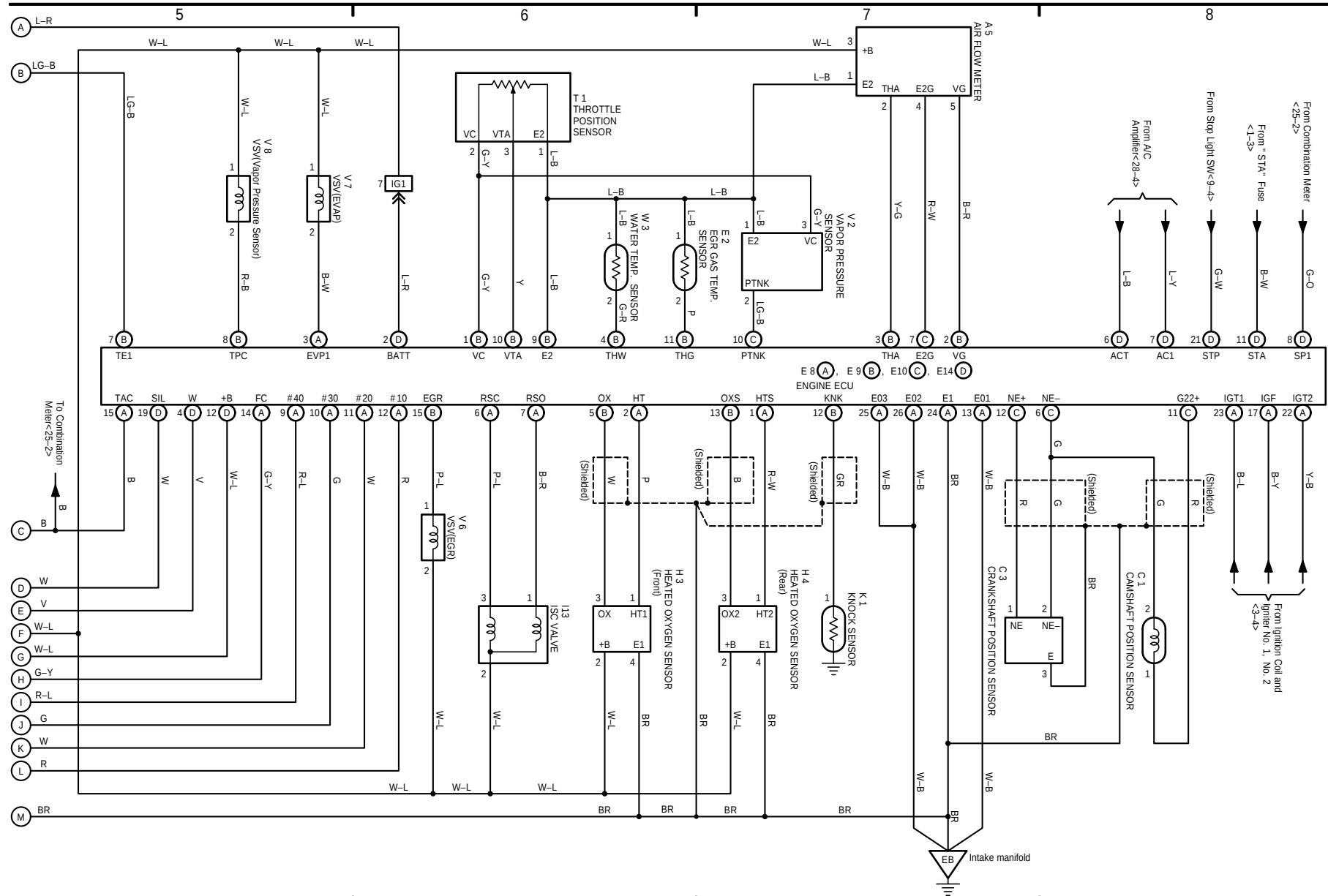
Engine Control (3RZ-FE 4WD)

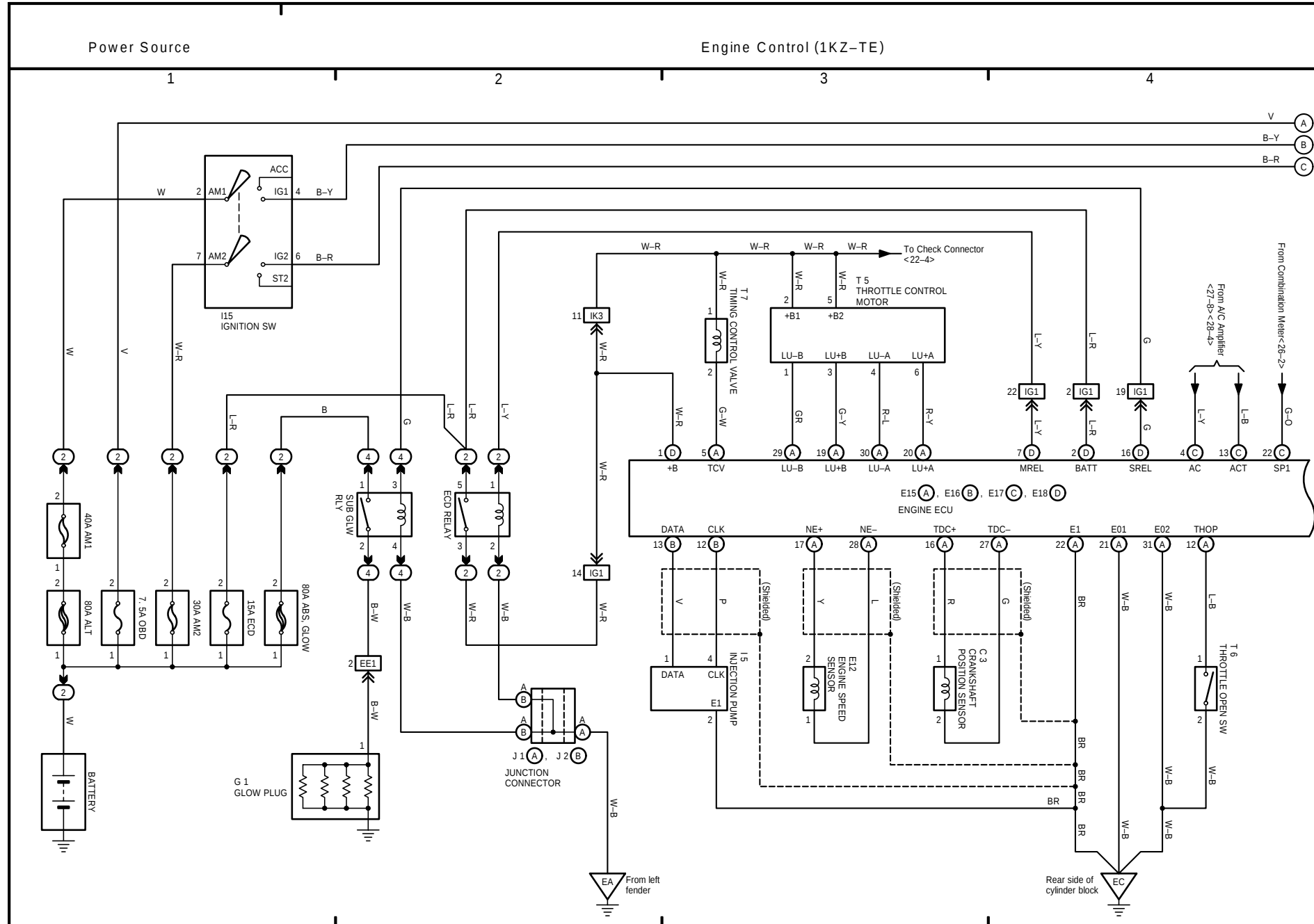




6 4RUNNER (Cont' d)

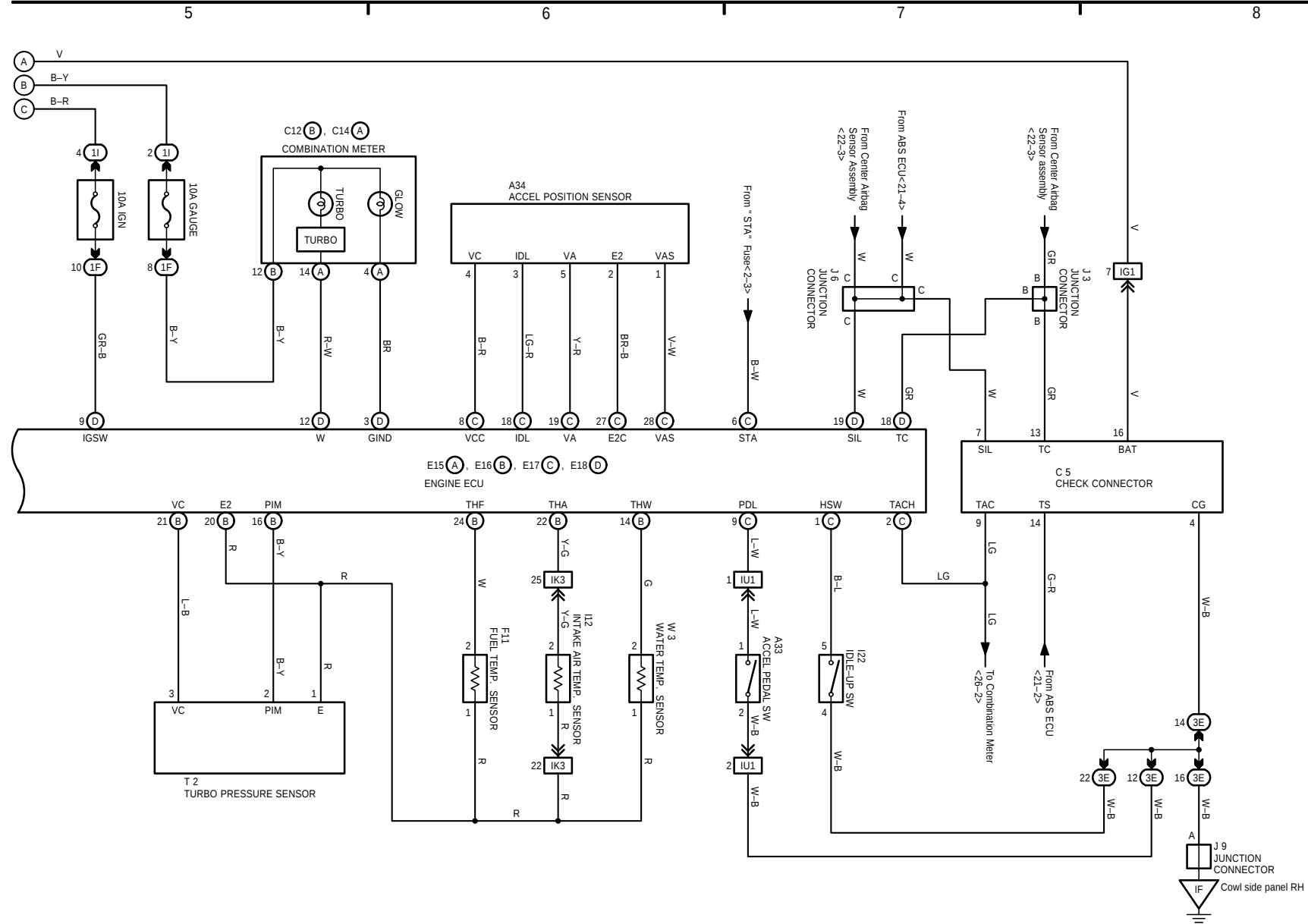
Engine Control (3RZ-FE 2WD)

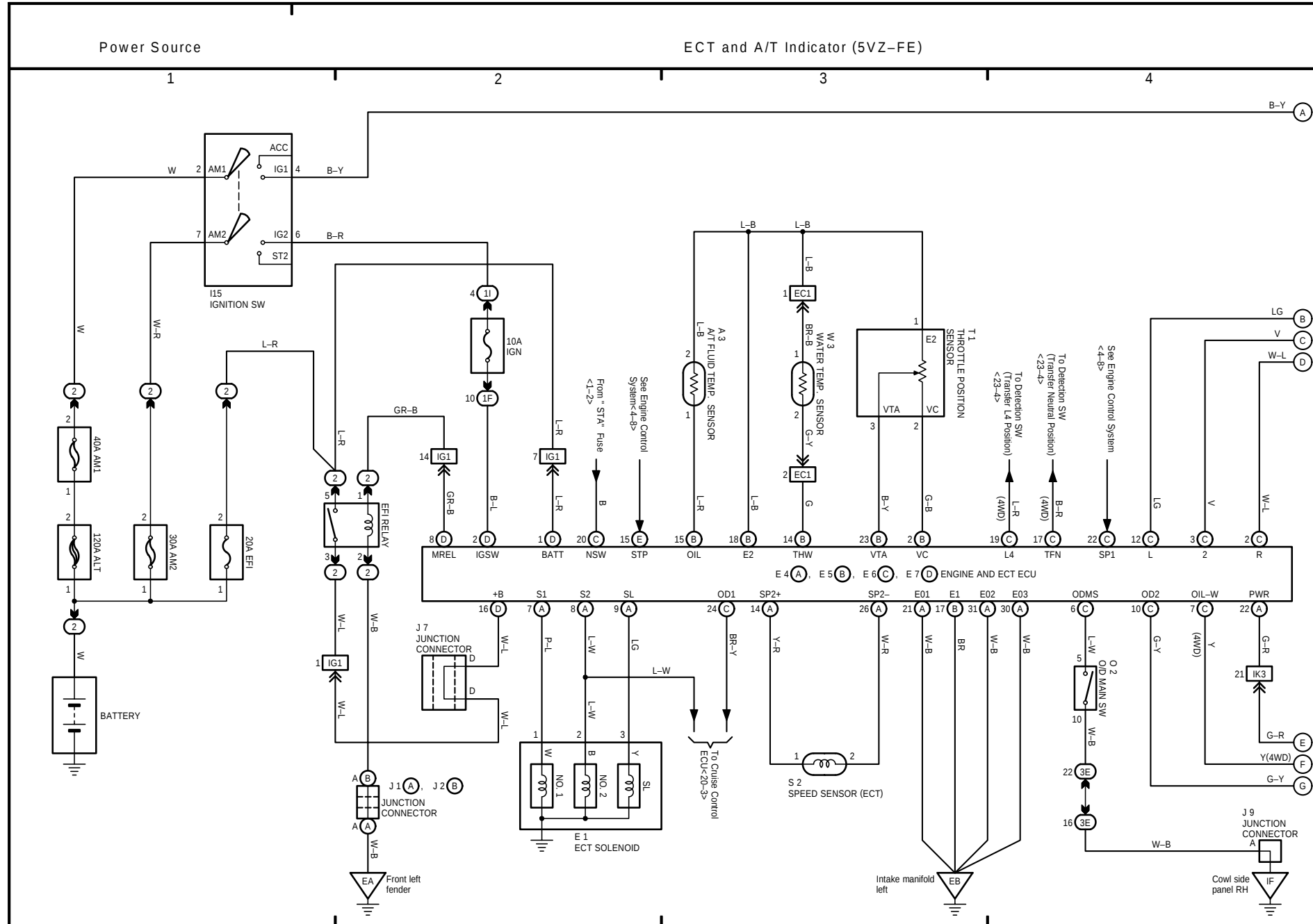




7 4RUNNER (Cont' d)

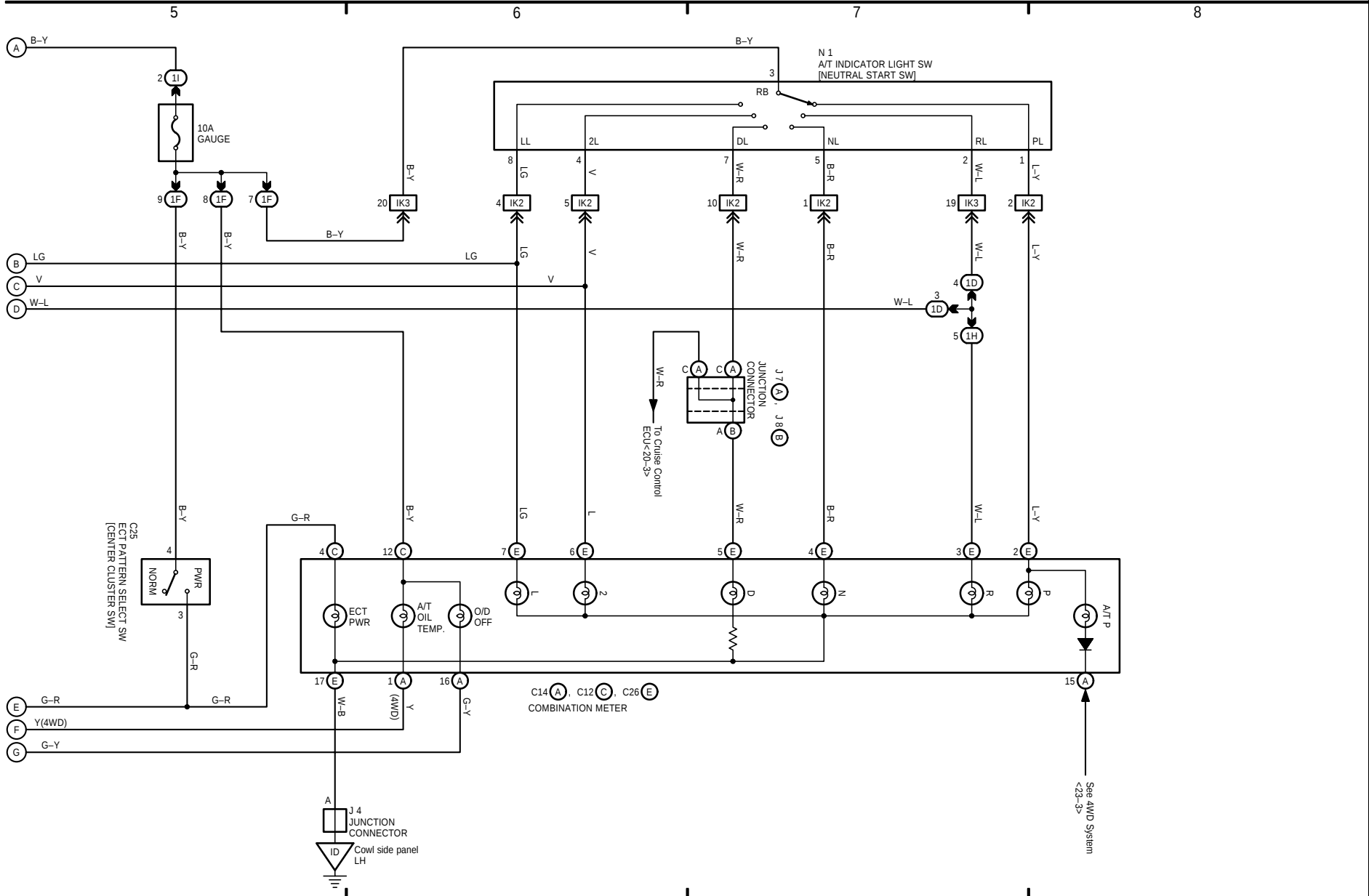
Engine Control (1KZ-TE)





8 4RUNNER (Cont' d)

ECT and A/T Indicator (5VZ-FE)



Power Source

Headlight

Stop Light

1

2

3

4

W-R

2

10A HEAD (LH)

10A HEAD (RH)

H 1 HEADLIGHT LH

H 2 HEADLIGHT RH

10A STOP

S 5 STOP LIGHT SW

To Engine and ECU (AN) or Engine ECU (IMT) <4-8> <5-8> <6-8>

To ABS ECU <2L-4>

G-W

11

14

50A J/B

HEAD RELAY

BATTERY

C15 COMBINATION SW

LIGHT CONTROL SW

DIMMER SW

EL

T

H

HF

HL

HU

OFF

TAIL

HEAD

LOW

HIGH

FLASH

J 3 JUNCTION CONNECTOR

C14 COMBINATION METER

HIGH BEAM

COMBINATION METER

J 4 JUNCTION CONNECTOR

Cowl side panel LH

To Body ECU <14-10>

J13 JUNCTION CONNECTOR

R 6 STOP LIGHT LH [REAR COMB. LIGHT LH]

R 7 STOP LIGHT RH [REAR COMB. LIGHT RH]

H 8 HIGH MOUNTED STOP LIGHT

Left quarter panel inner

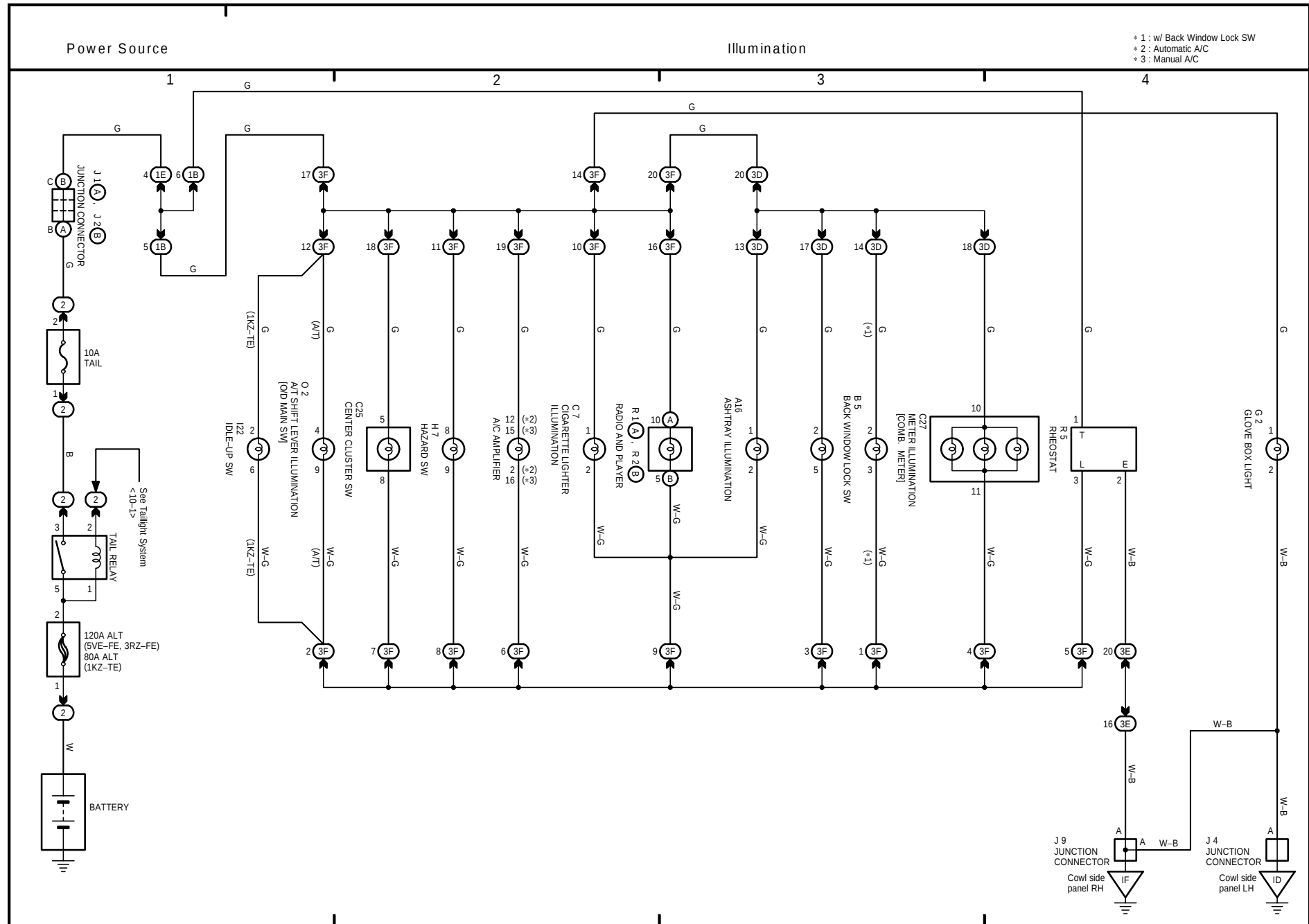
*** 1 : 1KZ-TE**

*** 2 : 5VZ-FE, 3RZ-FE**

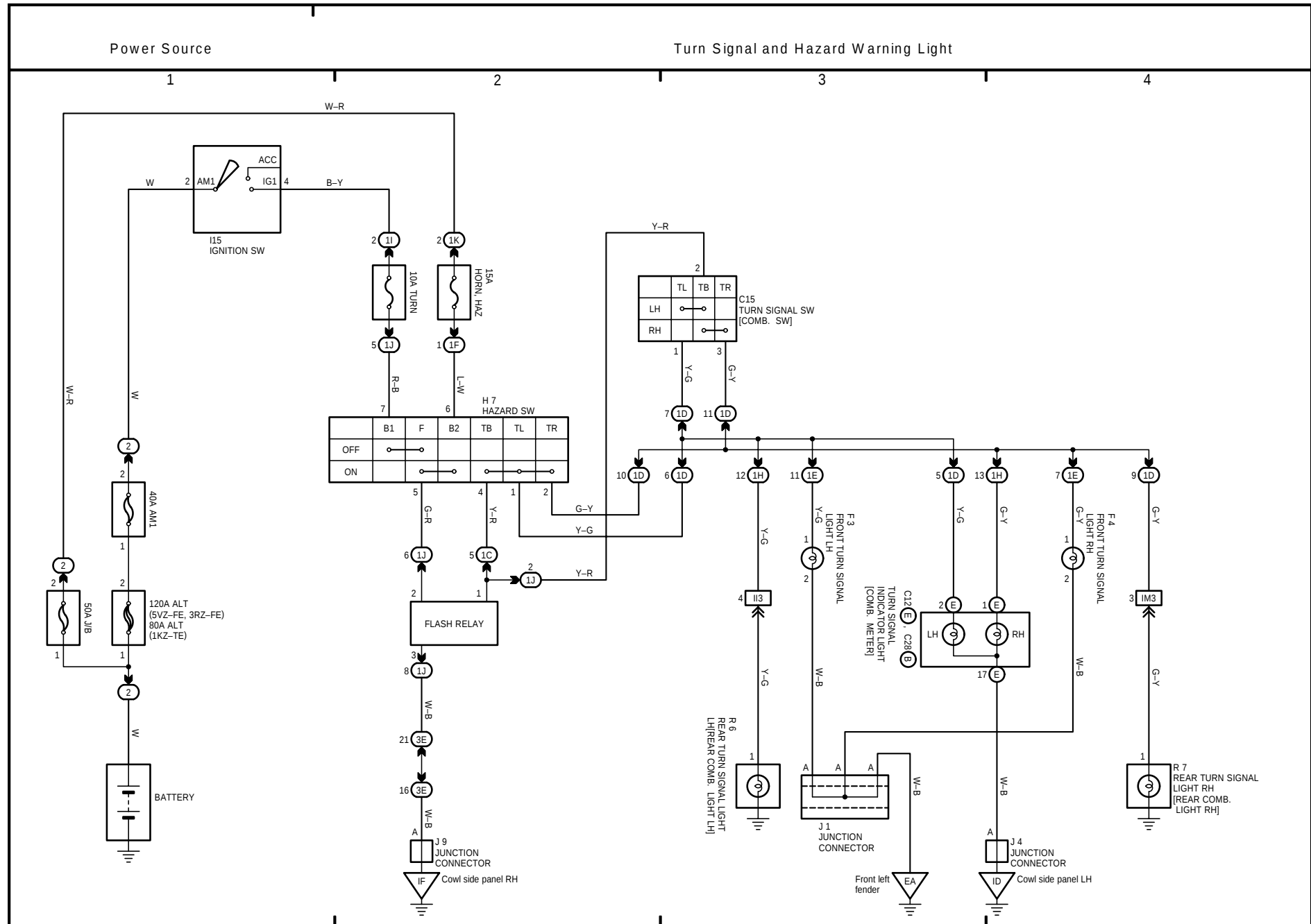
*** 3 : w/ Engine Immobiliser System**

[illegible]

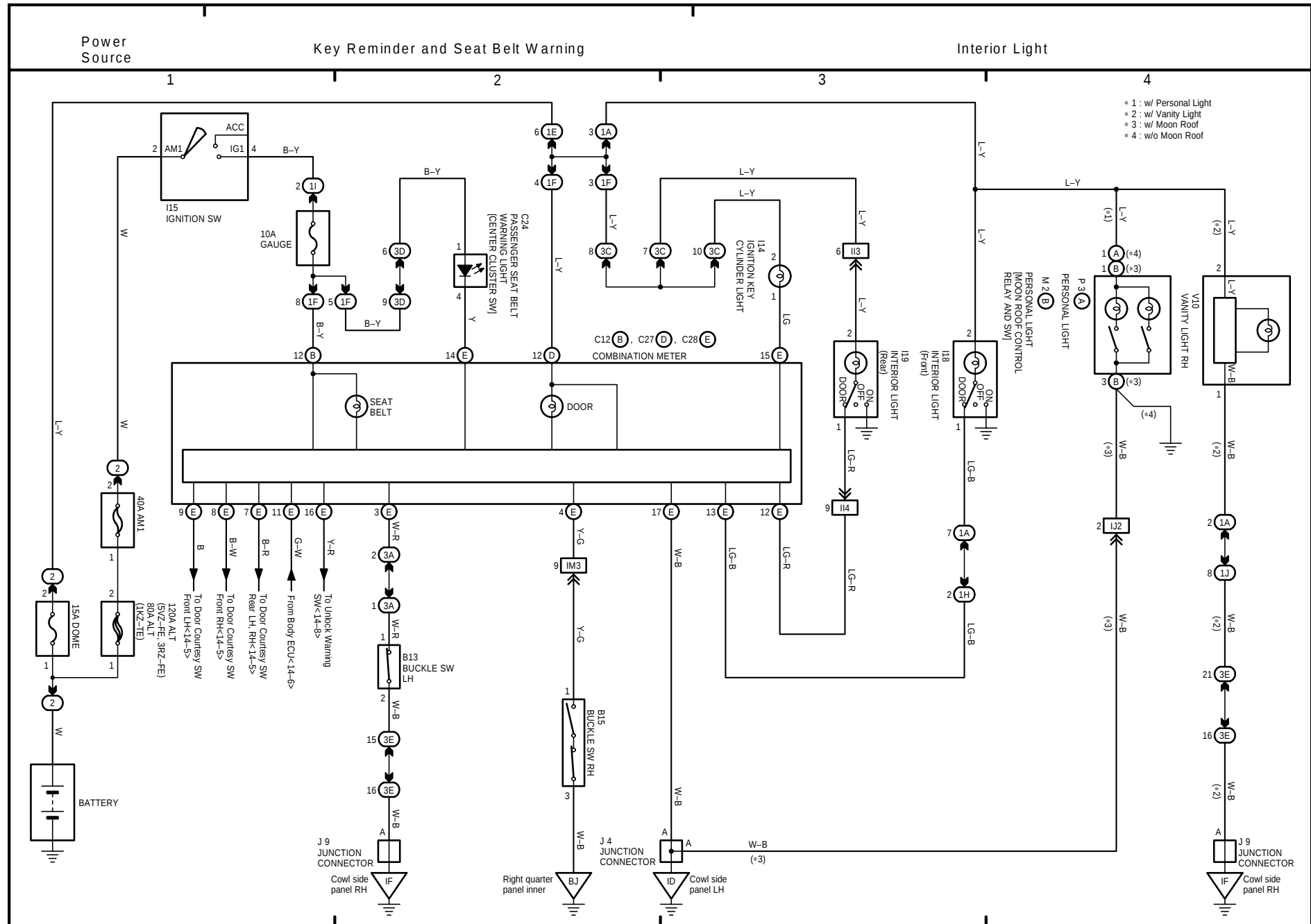
11 4RUNNER

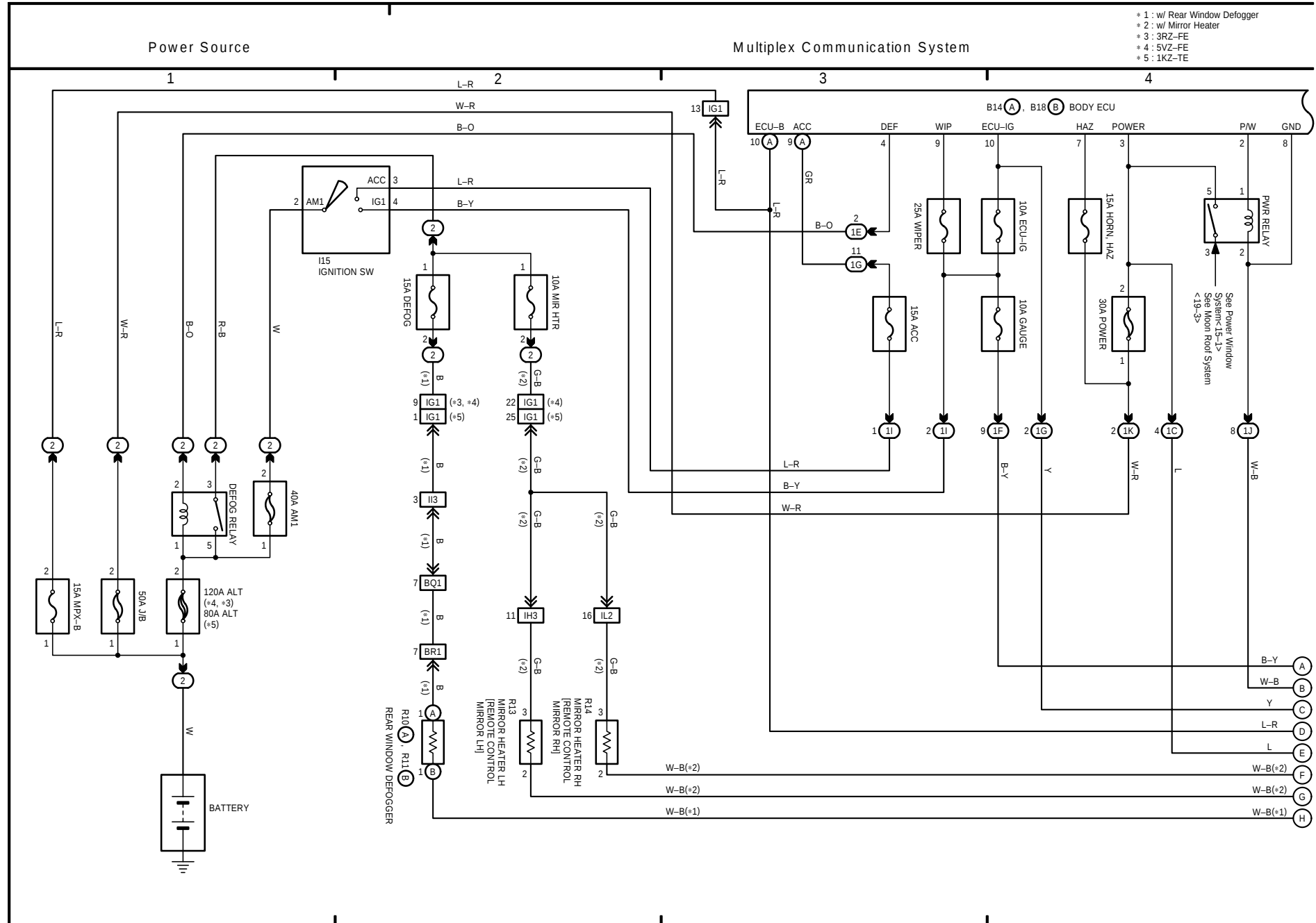


12 4RUNNER



13 4RUNNER

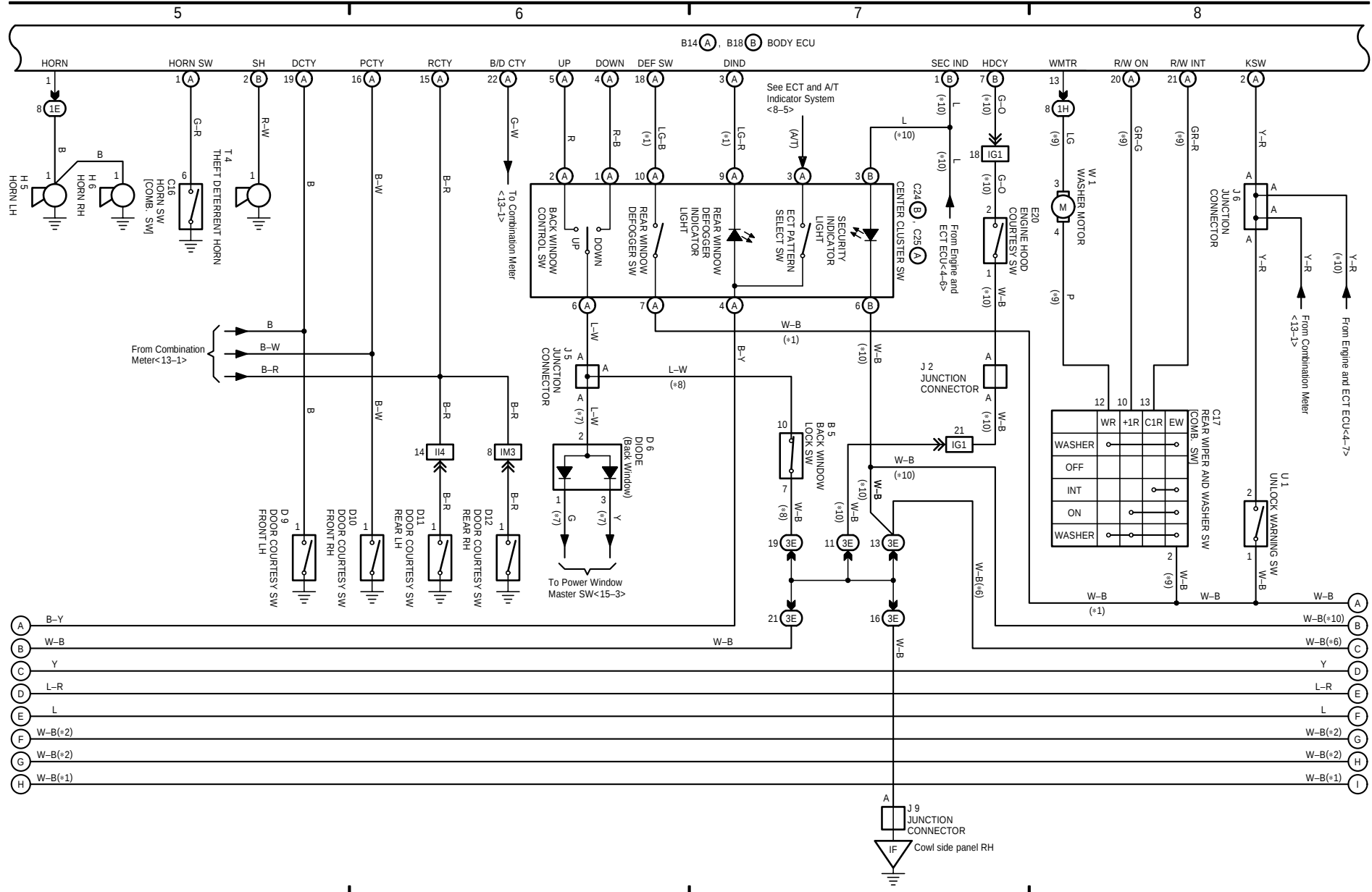




Multiplex Communication System

- * 1 : w/ Rear Window Defogger
- * 2 : w/ Mirror Heater
- * 6 : 3RZ-FE, 1KZ-TE w/o Door Lock Control
- * 7 : w/ Power Window

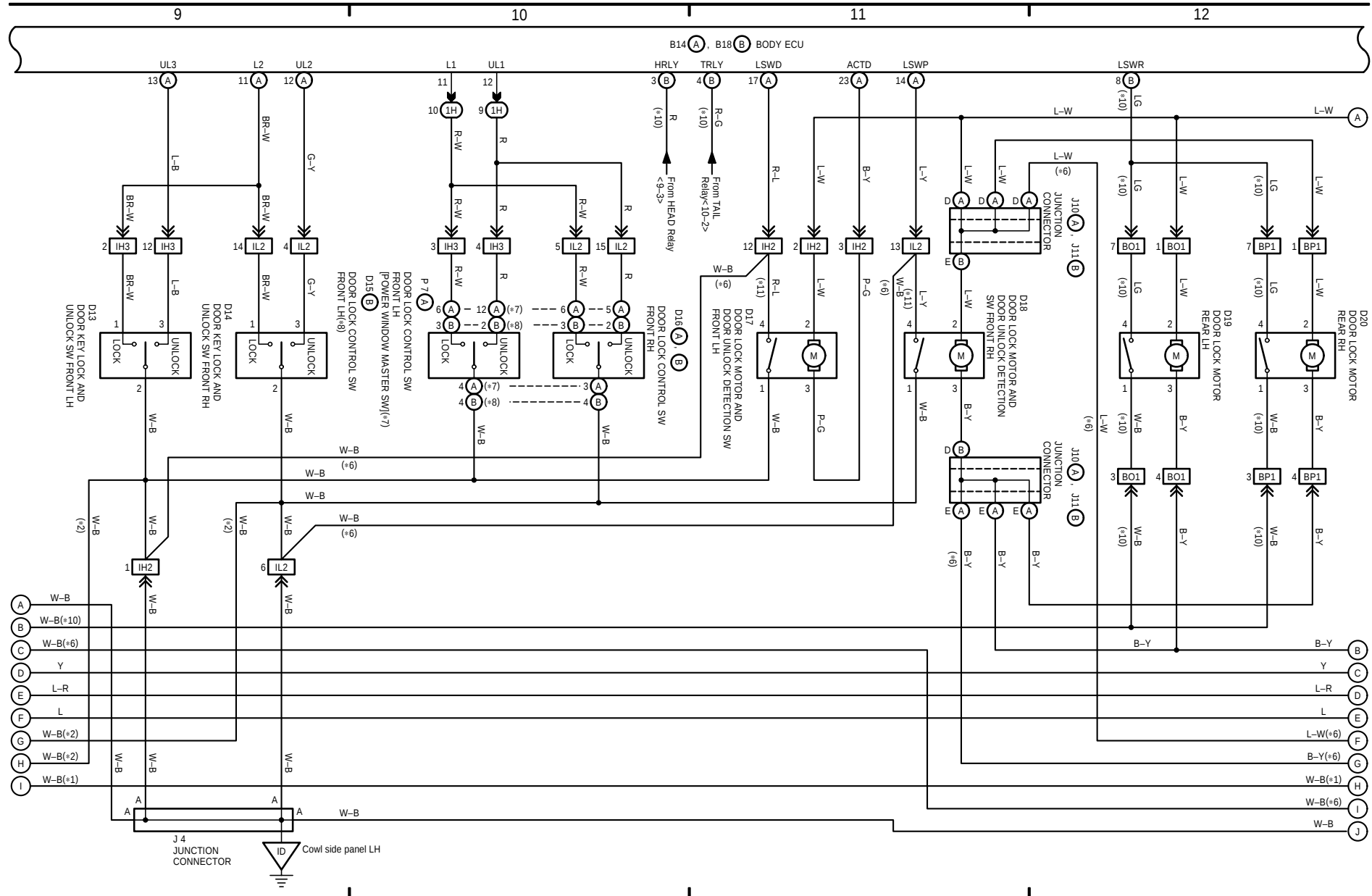
- * 8 : w/o Power Window
- * 9 : w/ Rear Wiper
- * 10 : w/ Engine Immobiliser System



Multiplex Communication System

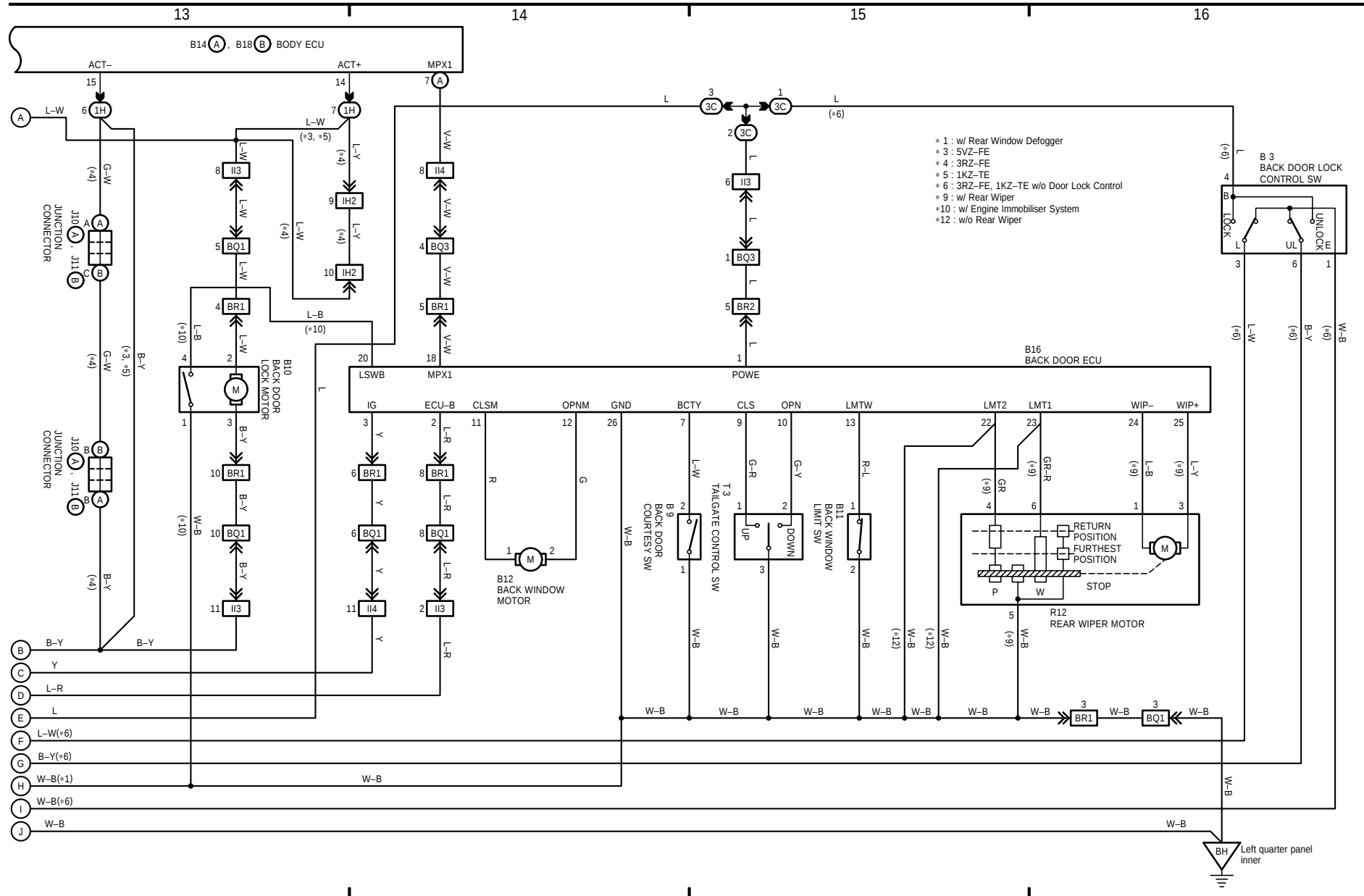
- * 1 : w/ Rear Window Defogger
- * 2 : w/ Mirror Heater
- * 6 : 3RZ-FE, 1KZ-TE w/o Door Lock Control
- * 7 : w/ Power Window

- * 8 : w/o Power Window
- * 10 : w/ Engine Immobiliser System
- * 11 : w/ Door Lock Control

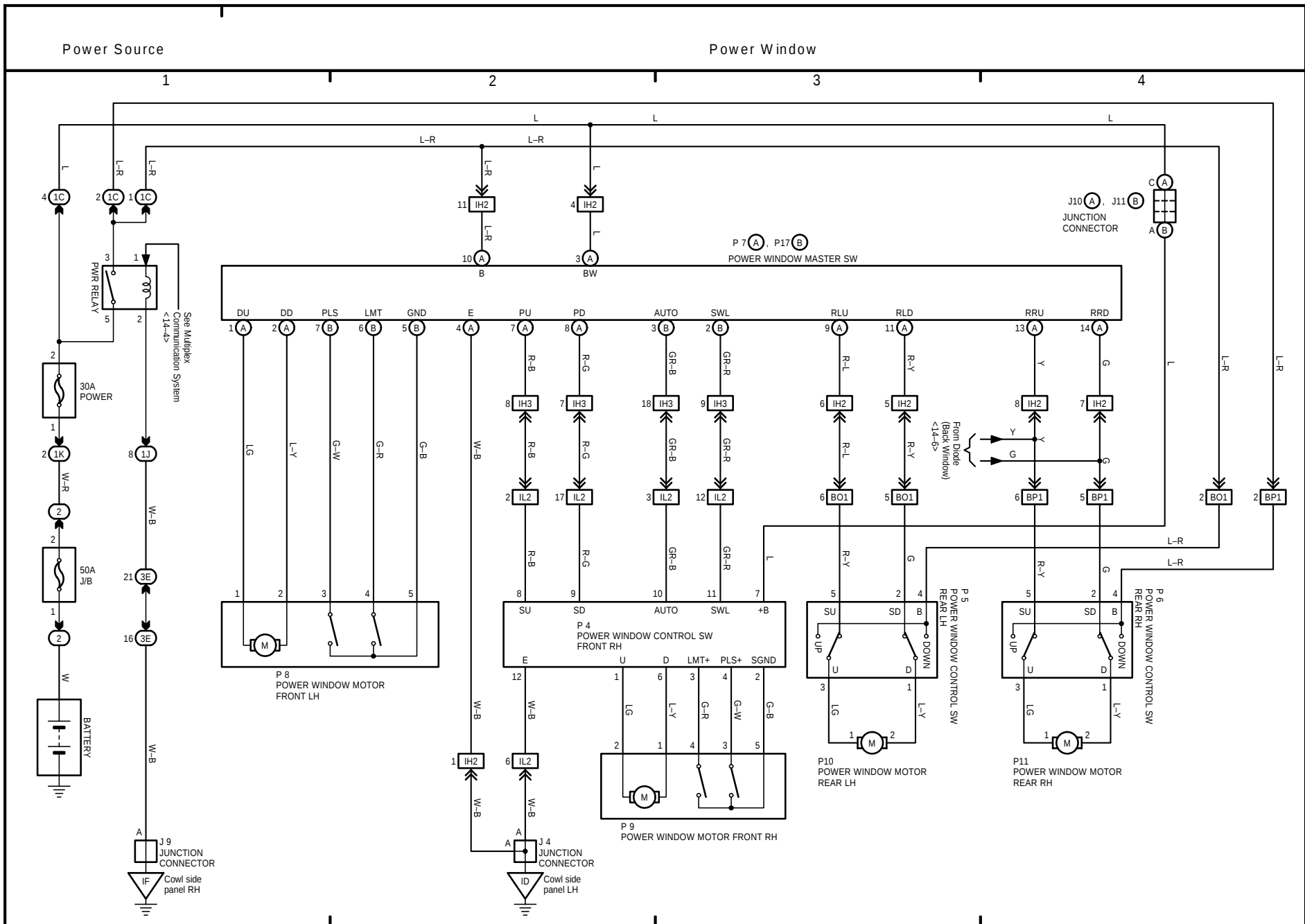


14 4RUNNER (Cont' d)

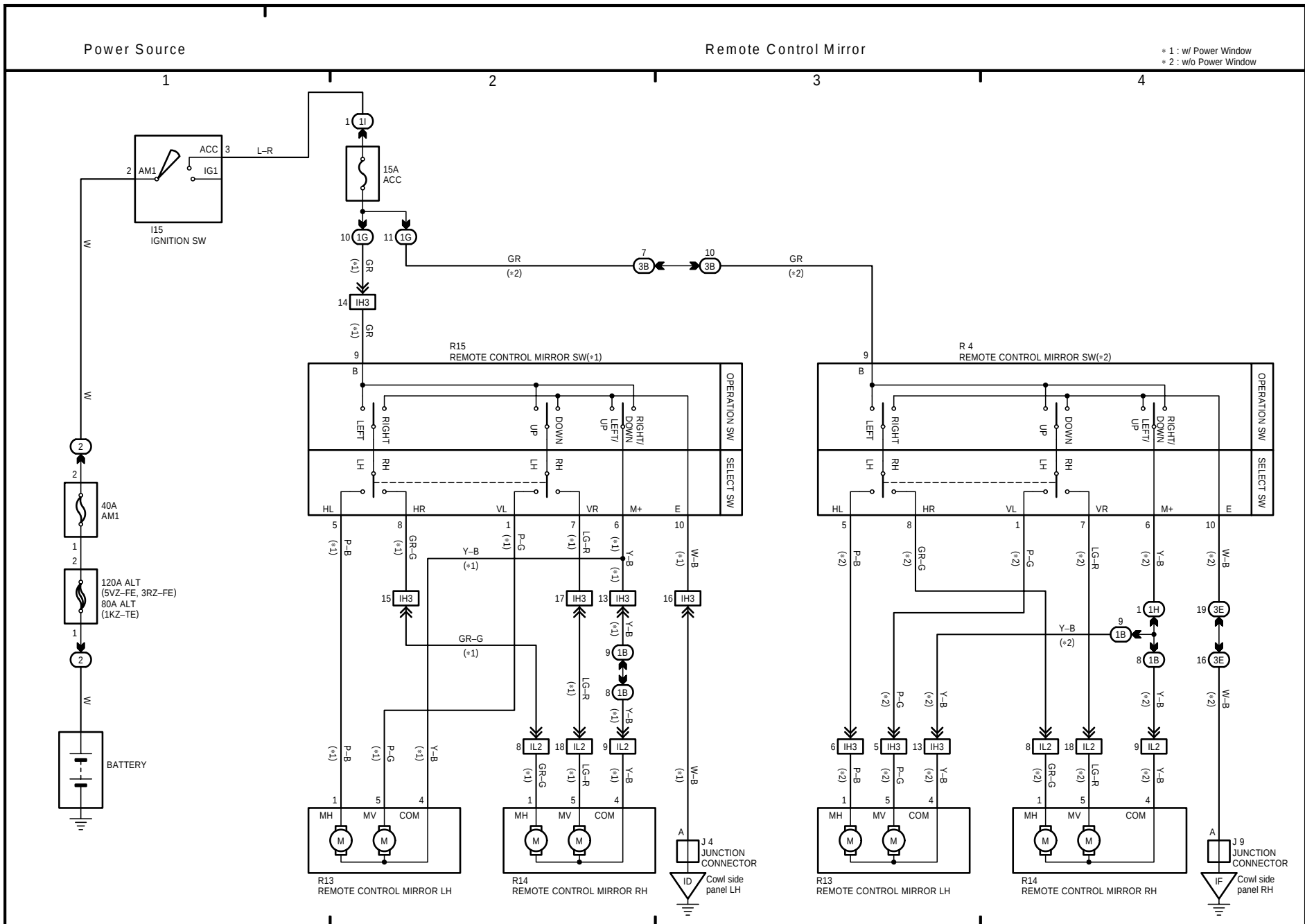
Multiplex Communication System



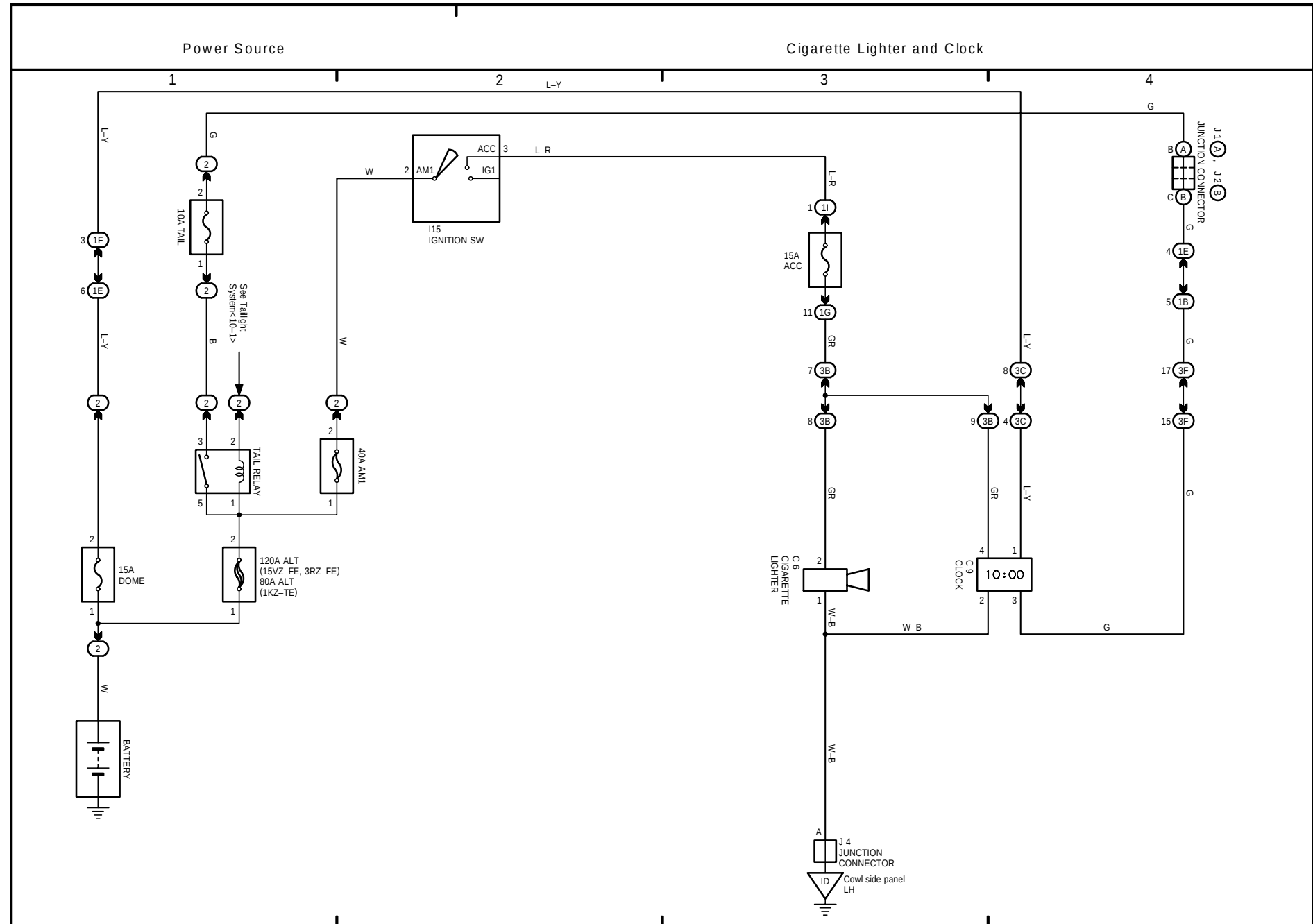
15 4RUNNER



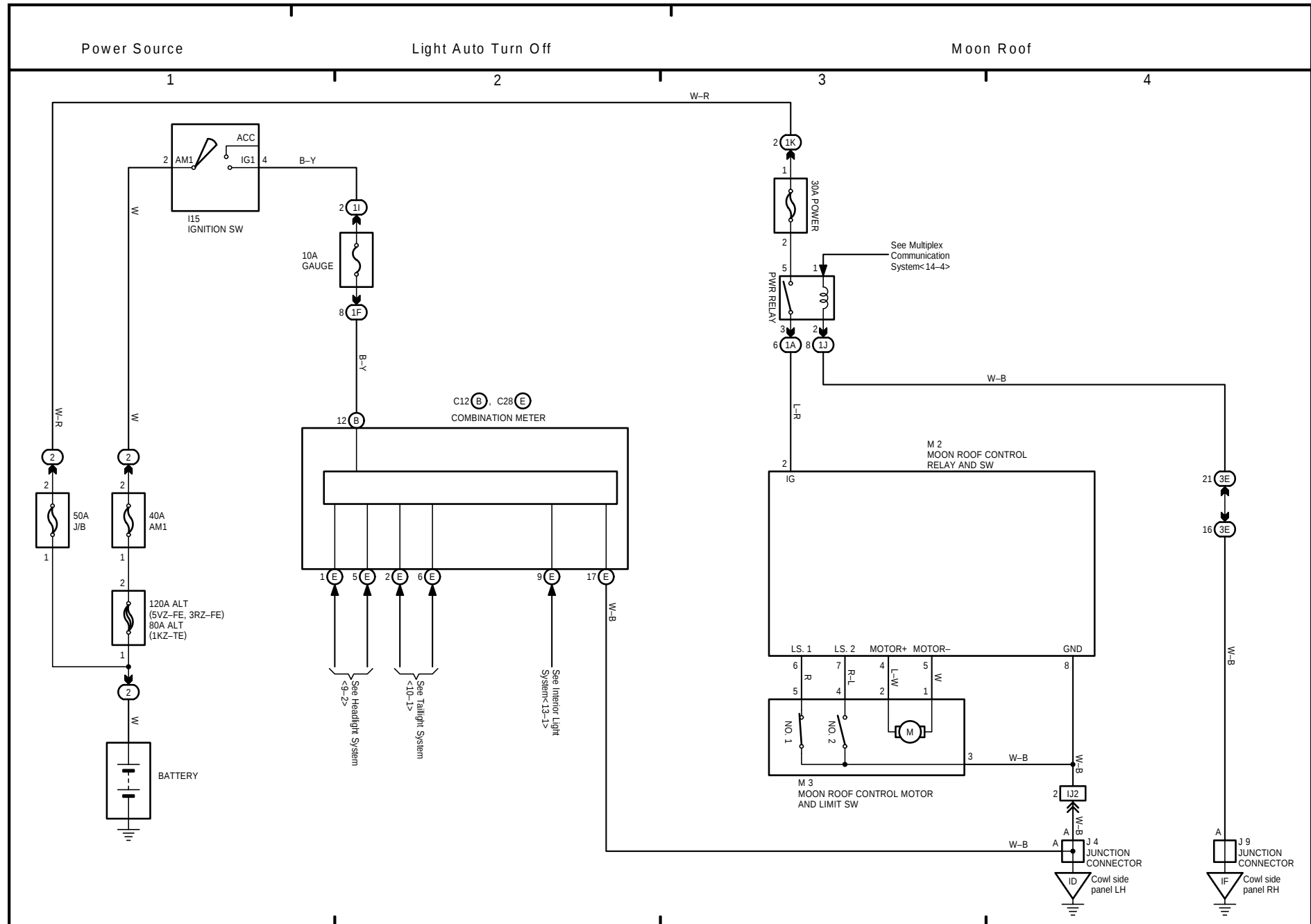
16 4RUNNER



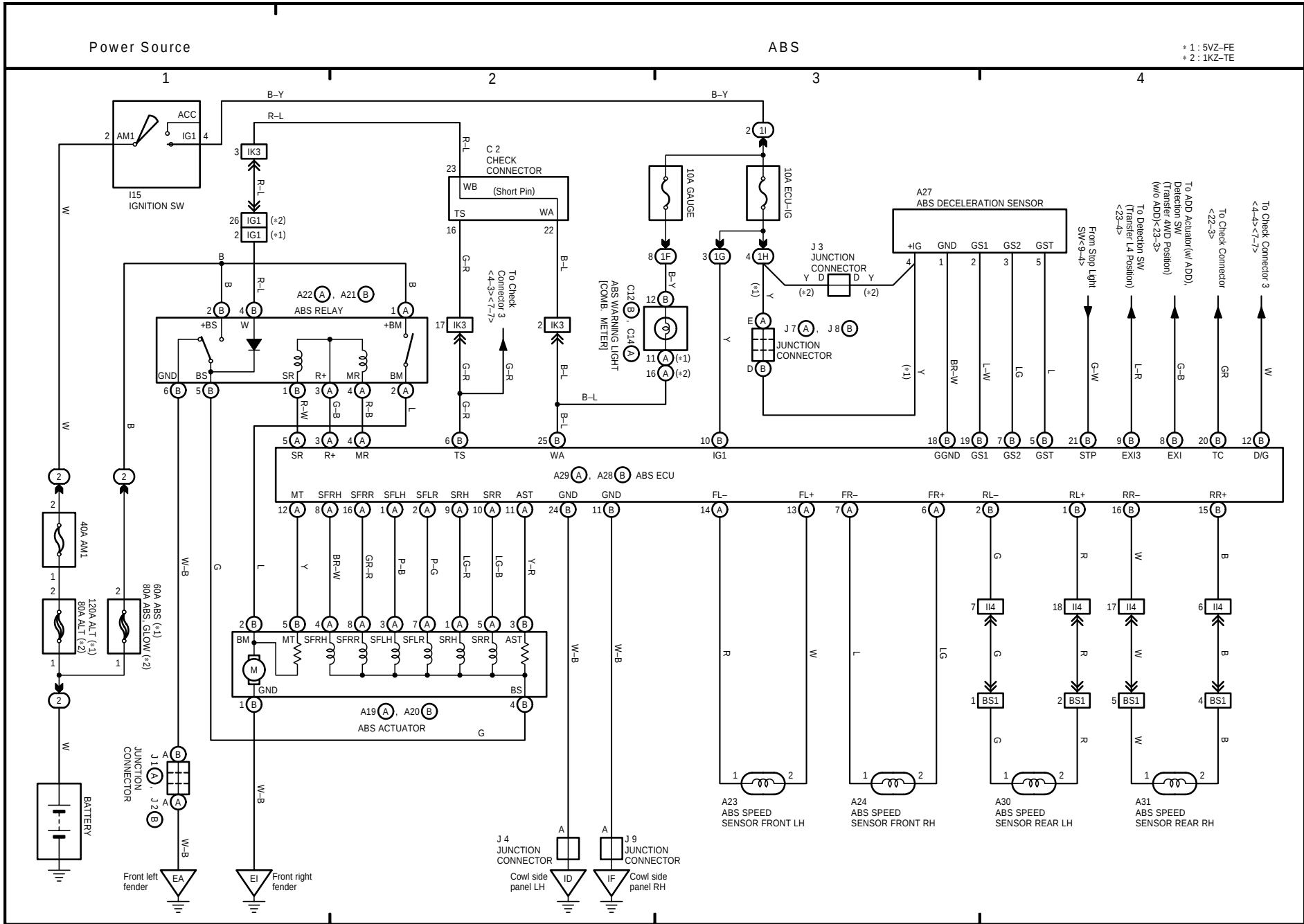
17 4RUNNER

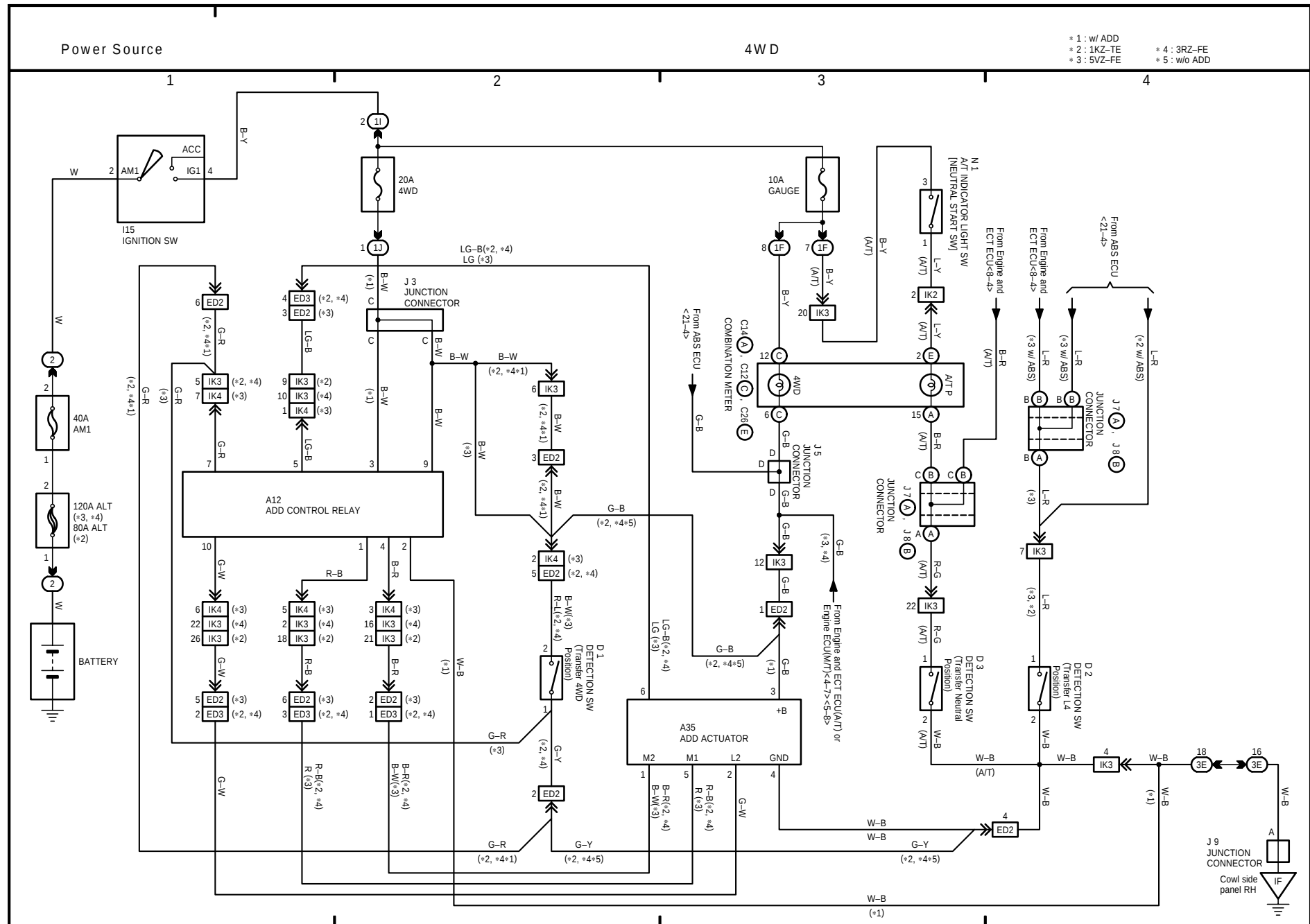


19 4RUNNER

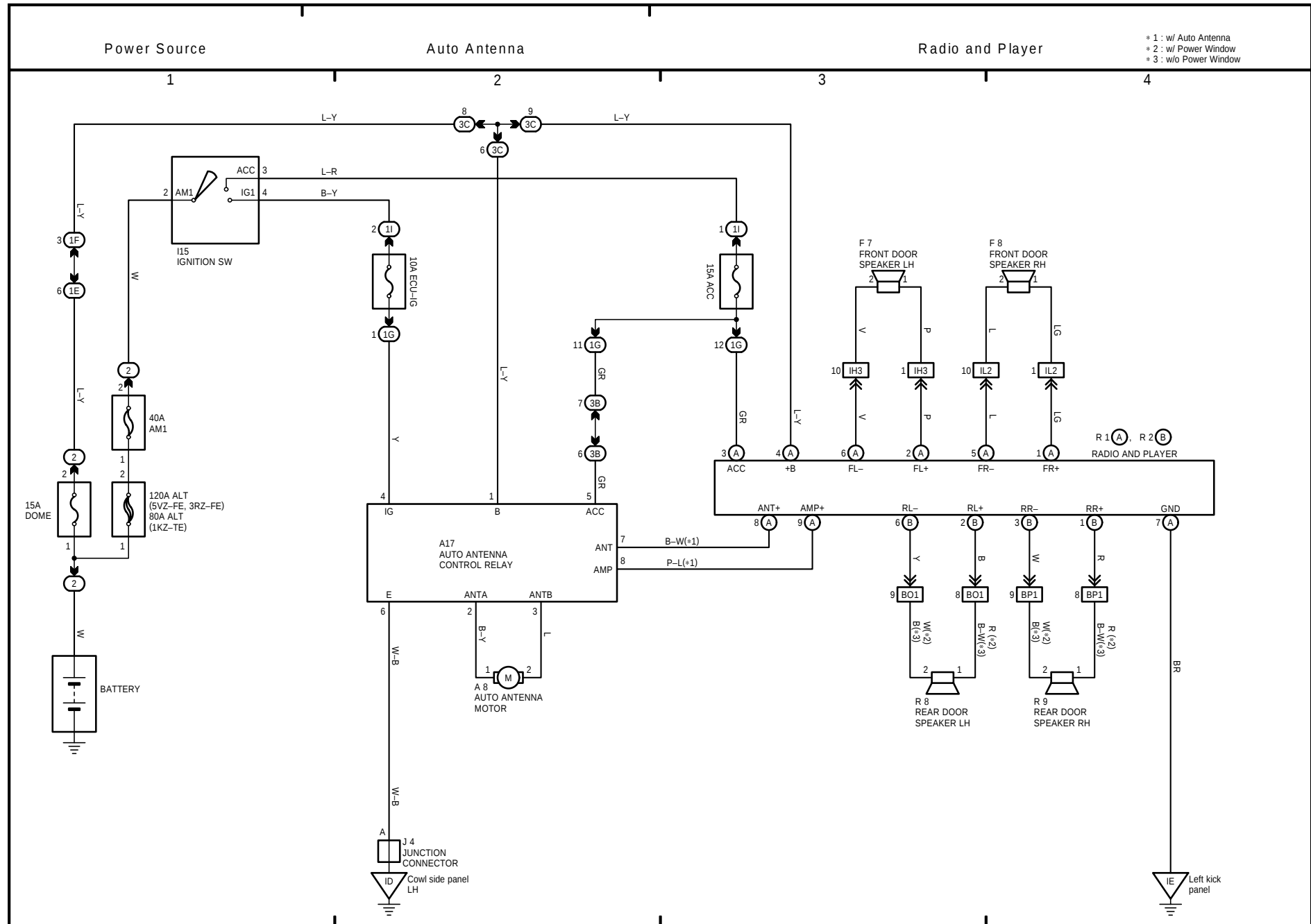


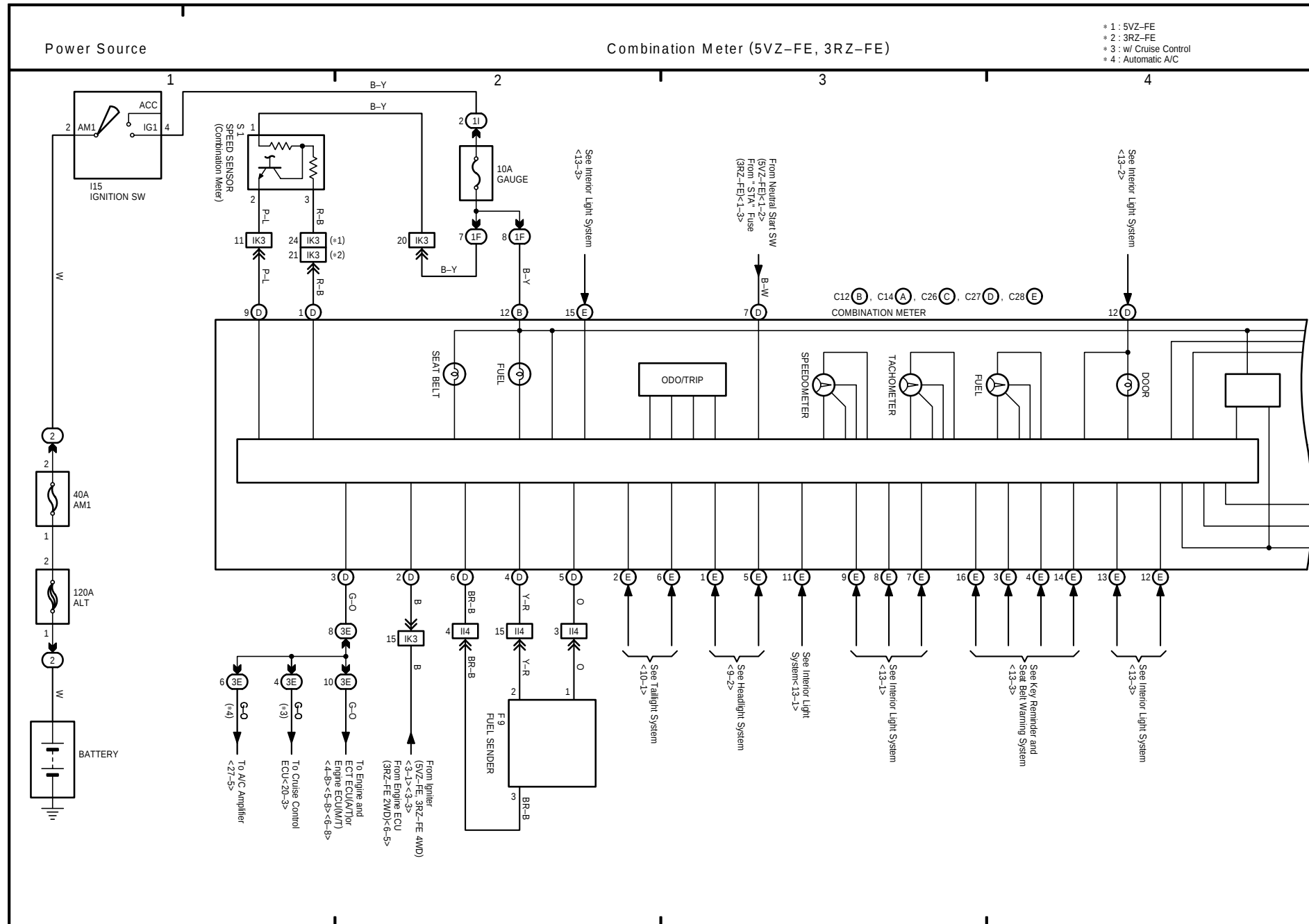
21 4RUNNER

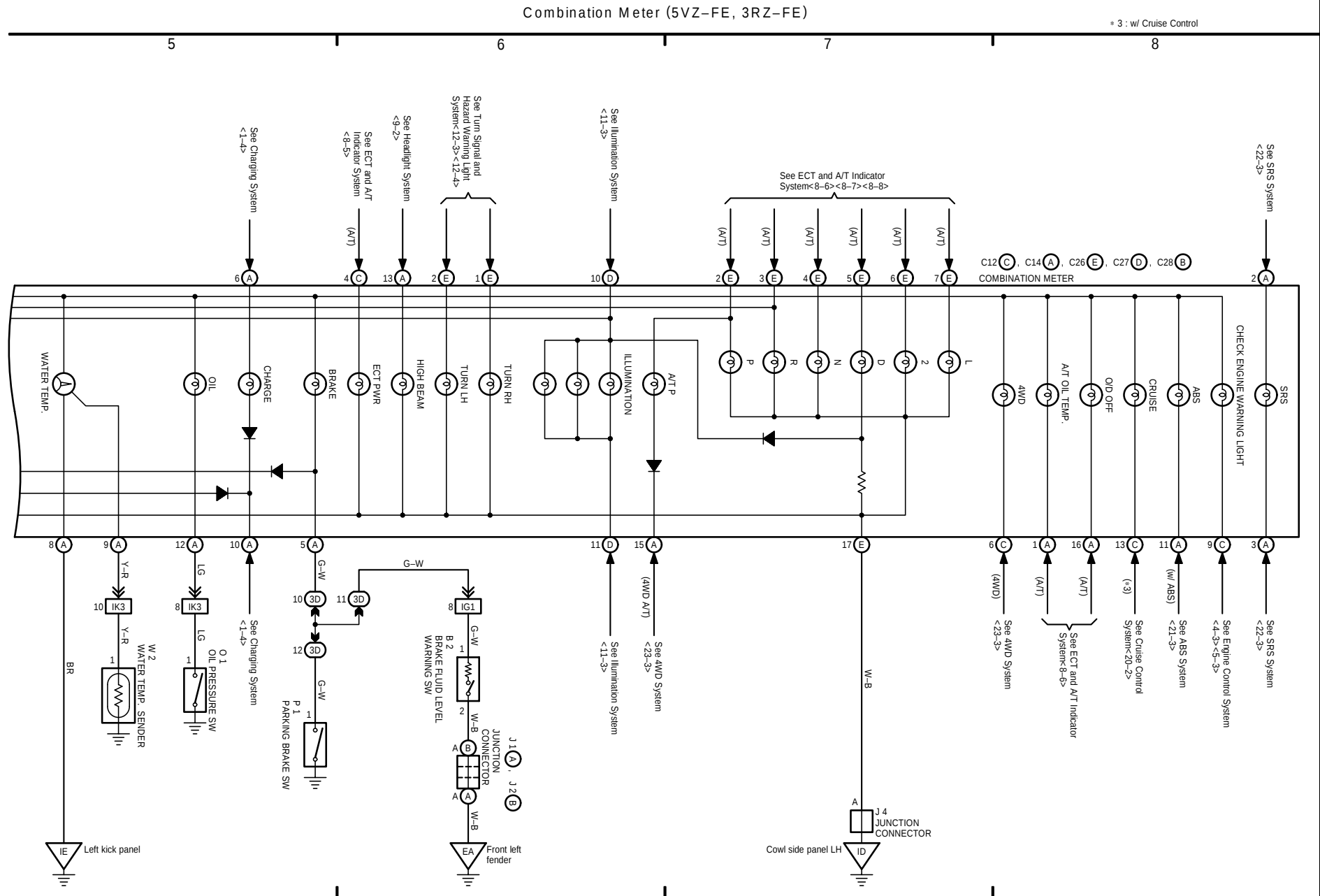


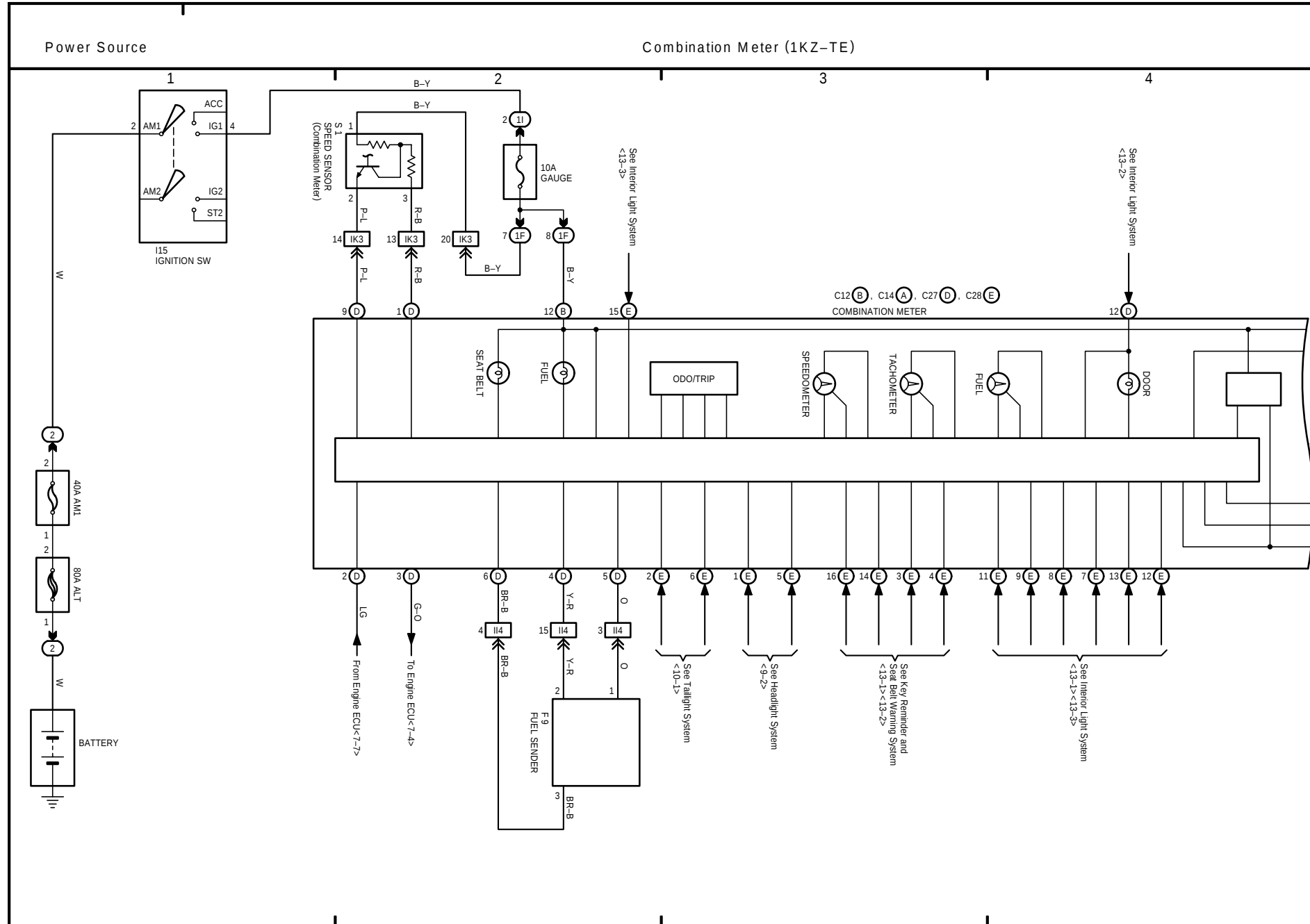


24 4RUNNER

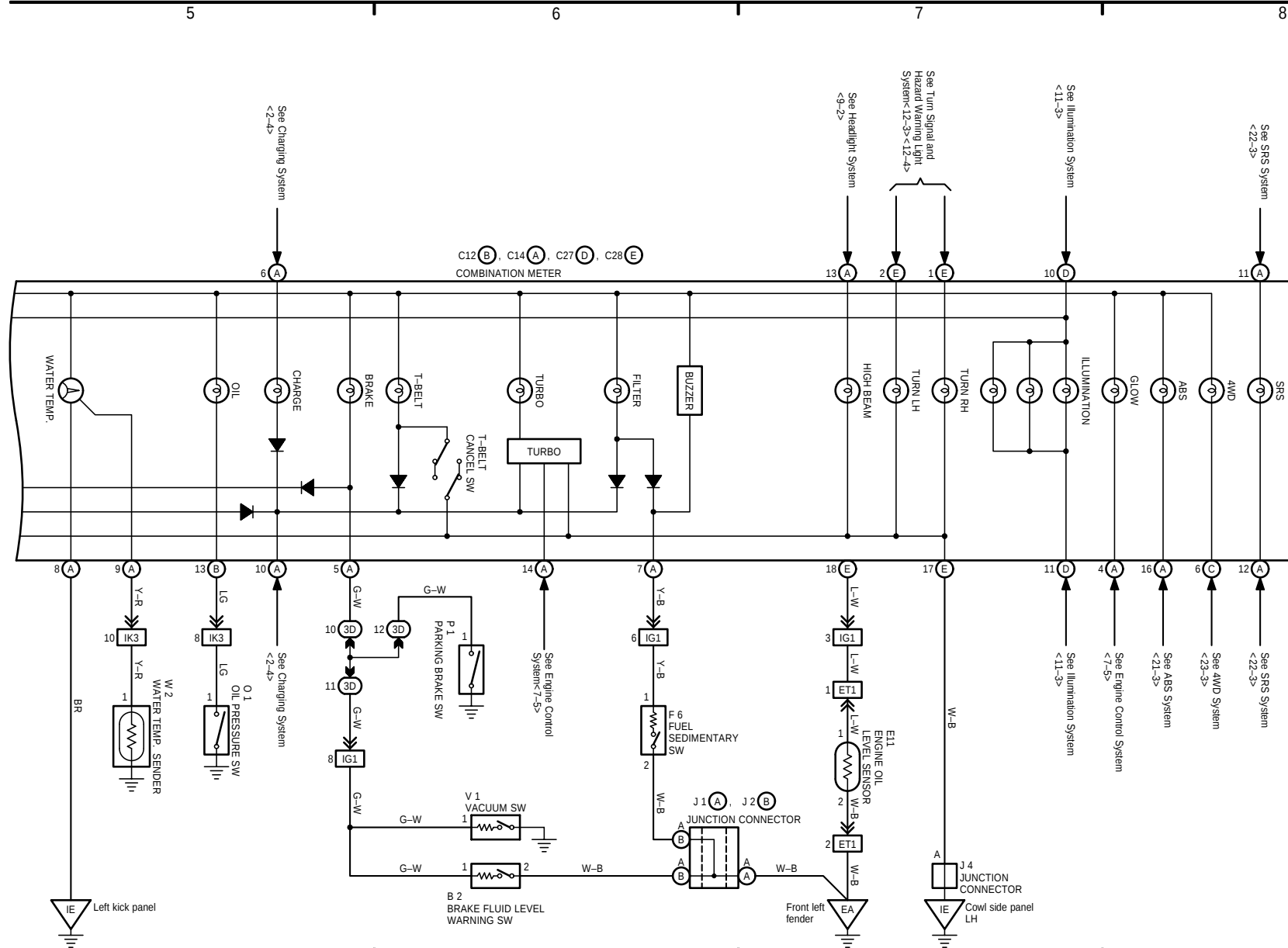


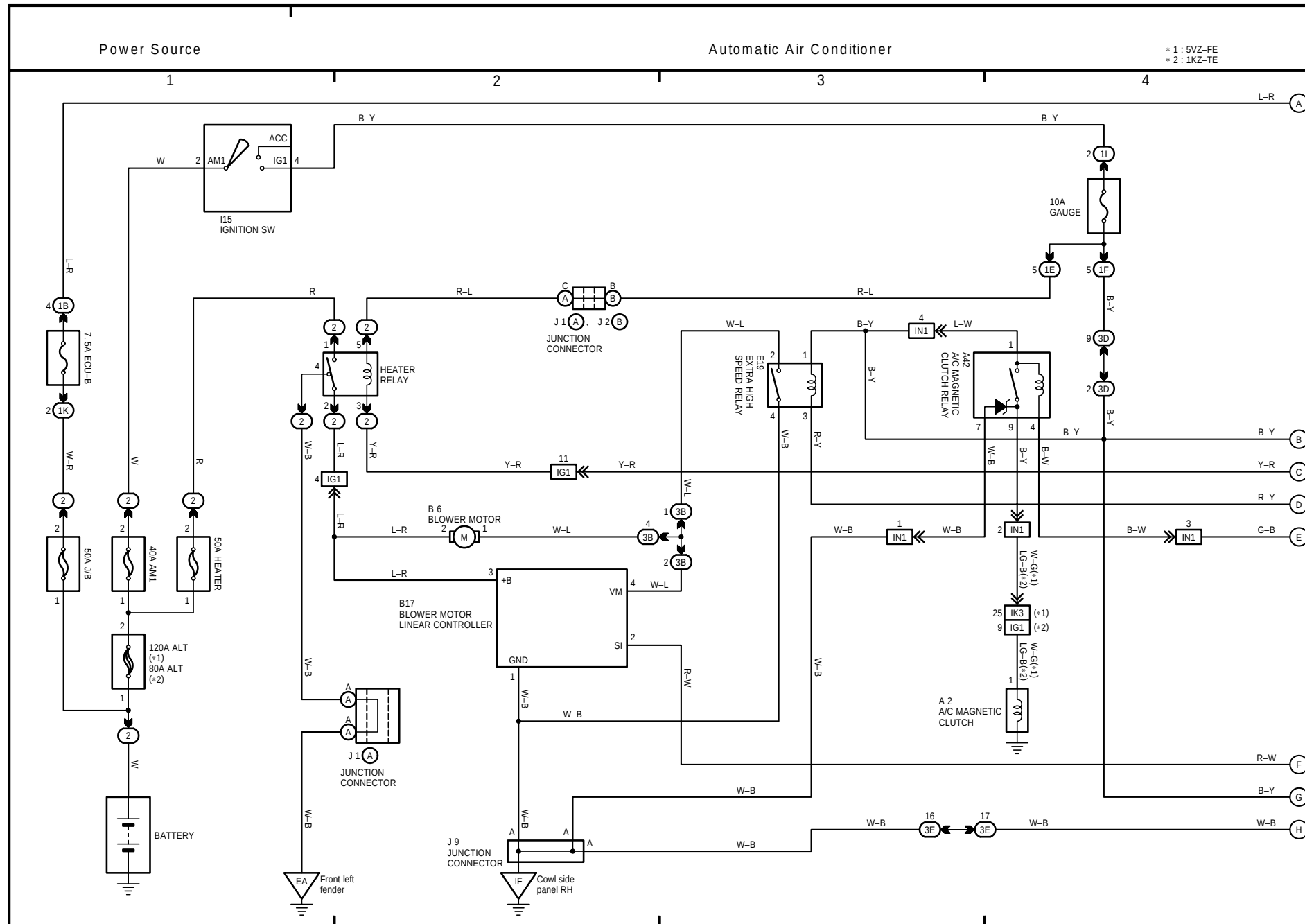




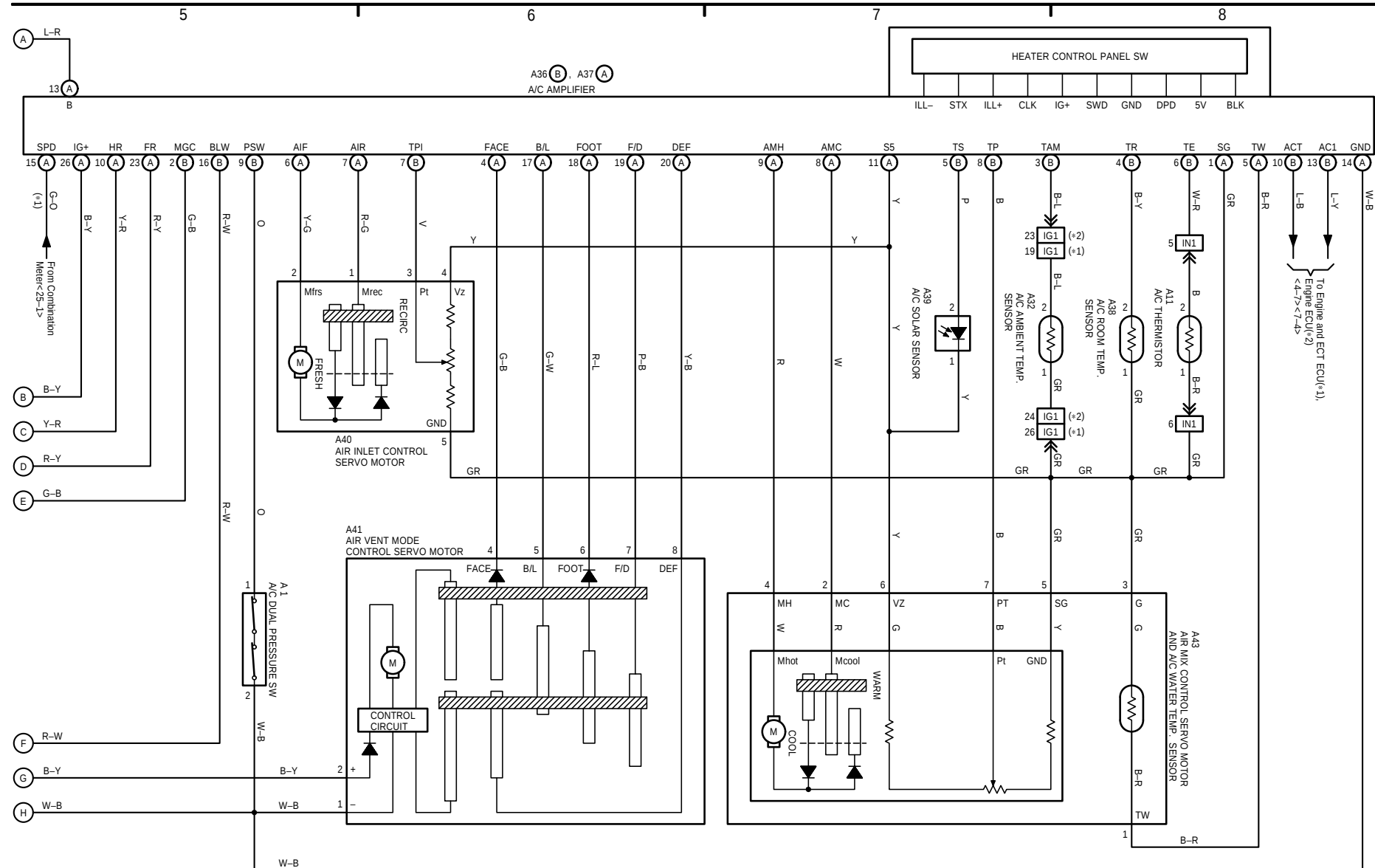


Combination Meter (1KZ-TE)





Automatic Air Conditioner

* 1 : 5VZ-FE
* 2 : 1KZ-FE


Air Conditioner (Manual A/C)

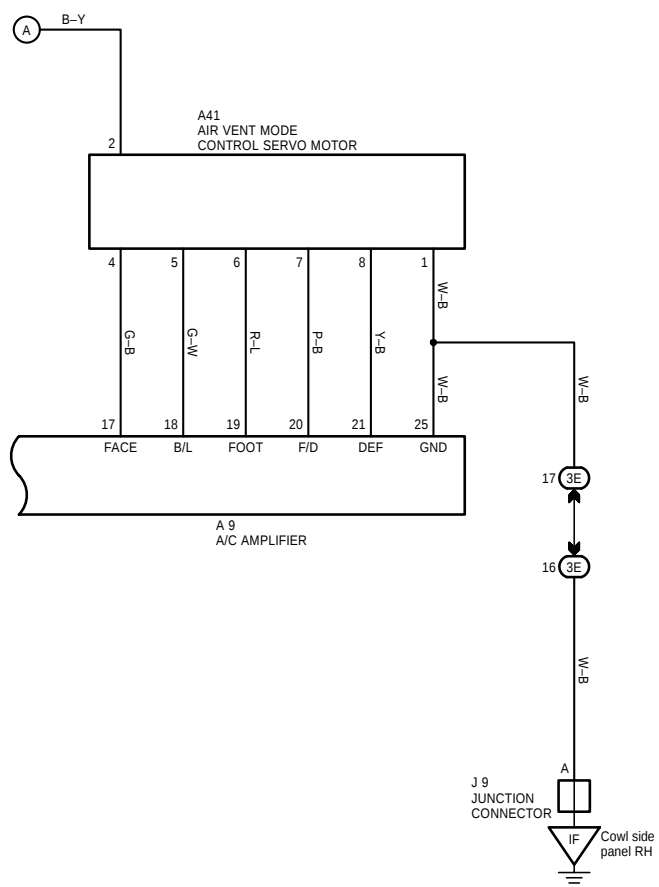
5

6

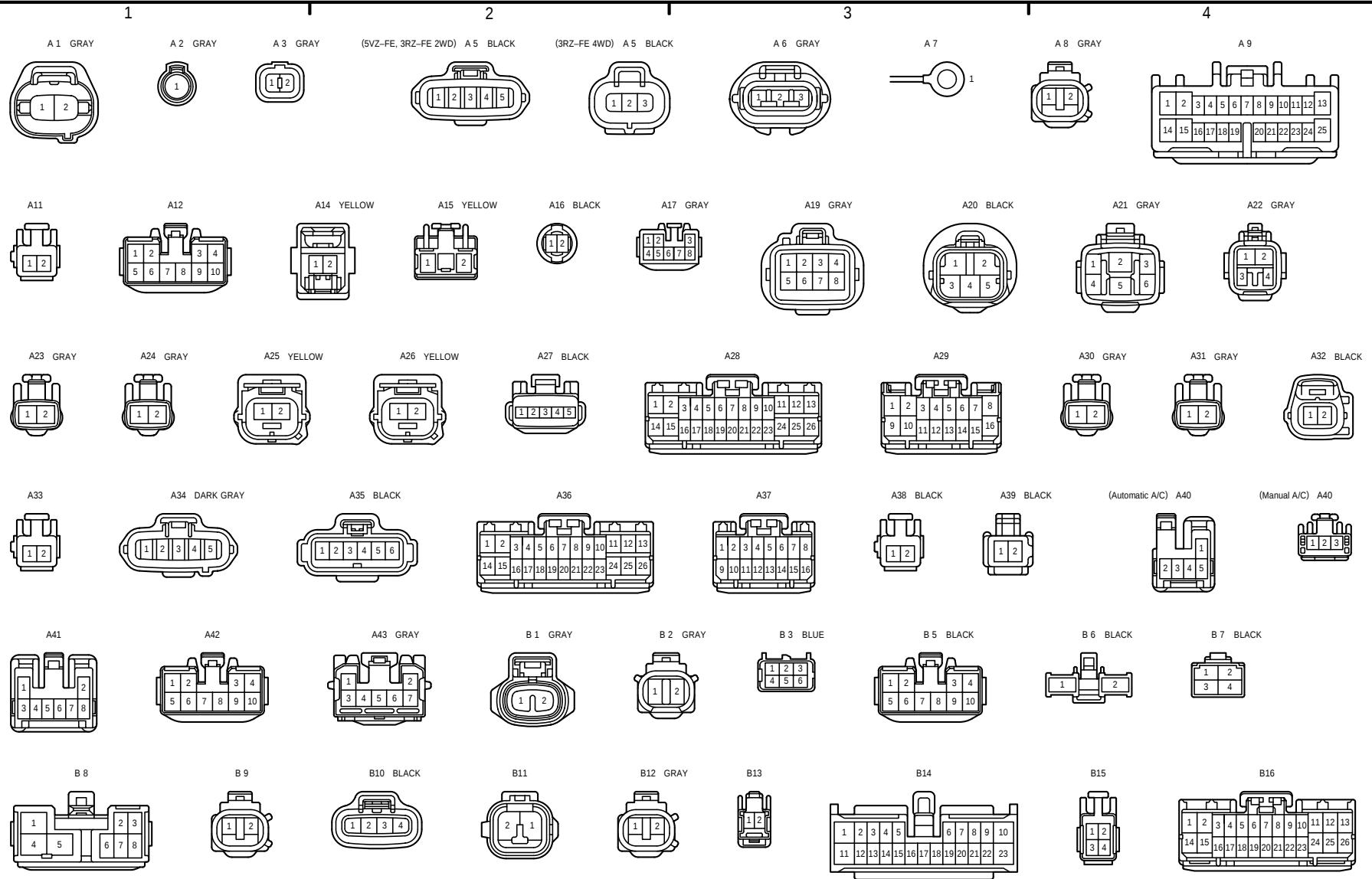
7

8

- 41 -

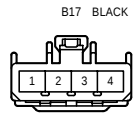


Connector List

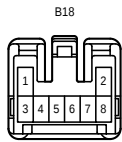


Connector List

1



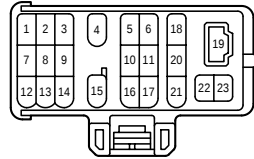
B17 BLACK



B18



C1 BLACK



C2 BLACK



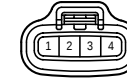
(SVZ-FE) C3 BLACK



(3RZ-FE) C3 GRAY



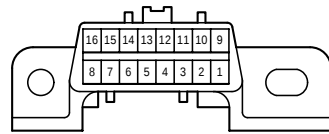
(1KZ-TE) C3 BLACK



C4 BLACK

4

C5 BLACK



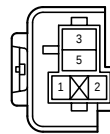
C6



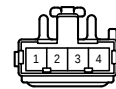
C7 GRAY



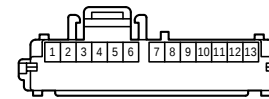
C8



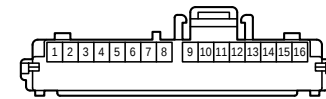
C9 BLACK



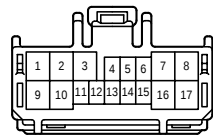
C12 BROWN



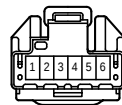
C14



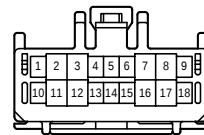
C15 BLACK



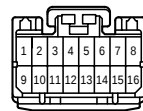
C16 BLACK



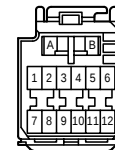
C17 BLACK



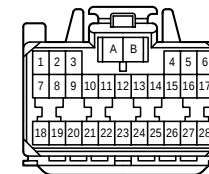
C19



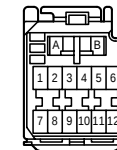
C21 YELLOW



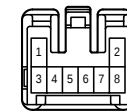
C22 YELLOW



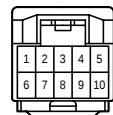
C23 YELLOW



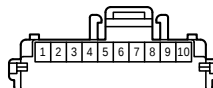
C24 ORANGE



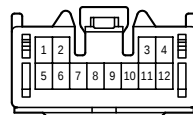
C25



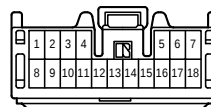
C26 GRAY



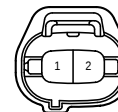
C27 BLUE



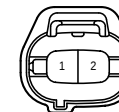
C28



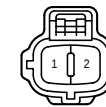
D1 BLUE



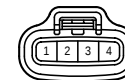
D2 BLUE



D3 GRAY



D4 BLACK



D6



D9



D10



D11



D12



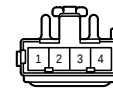
D13 GRAY



D14 GRAY



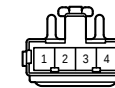
D15



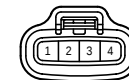
(w/ Power Window) D16



(w/o Power Window) D16



D17 BLACK



Connector List

1

D18 BLACK



D19 BLACK



D20 BLACK



2

E 1 BLACK

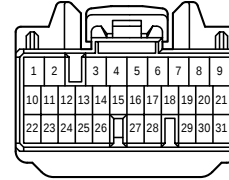


E 2 DARK GRAY

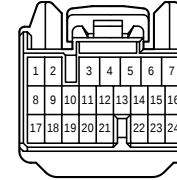


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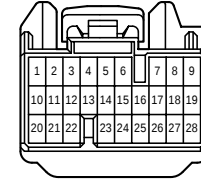
E 4



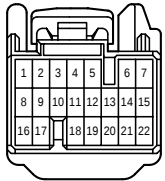
E 5



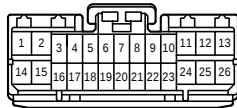
E 6



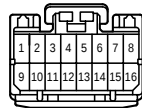
E 7



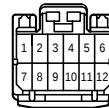
E 8



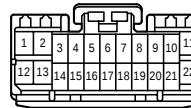
E 9



(3RZ-FE 2WD) E10



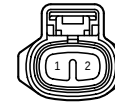
(3RZ-FE 4WD) E10



E11



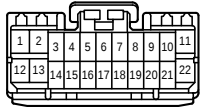
E12



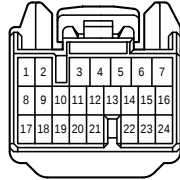
E13



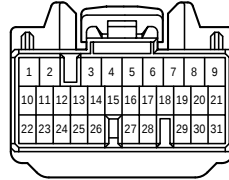
E14



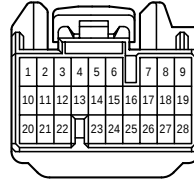
E15



E16



E17 BLACK



E18



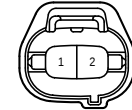
E19



E20 BLACK



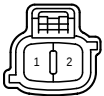
F 1 GRAY



F 2 GRAY



F 3 GRAY



F 4 GRAY



F 5 BLACK



F 6 GRAY



F 7



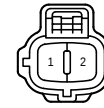
F 8



F 9 DARK GRAY



F10 GRAY



F11 DARK GRAY



G 1



G 2 BLACK



(5VZ-FE, 3RZ-FE) H 1 BROWN



(1KZ-TE) H 1



(5VZ-FE, 3RZ-FE) H 2 BROWN



(1KZ-TE) H 2



H 3 DARK GRAY



H 4 DARK GRAY



H 5 BLACK



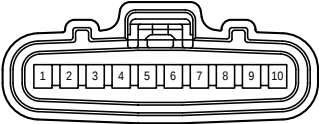
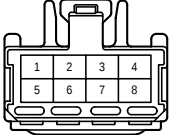
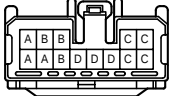
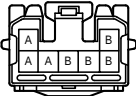
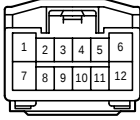
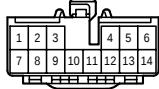
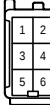
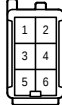
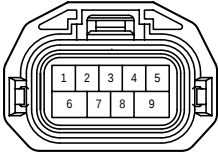
H 6 BLACK



H 7 BLACK

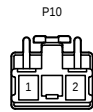


Connector List

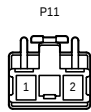
1	2	3	4
(w/ Rear Spoiler) H 8 GRAY	(w/o Rear Spoiler) H 8 BROWN	(5VZ-FE) I 1 BLACK	(3RZ-FE 4WD) I 1 BLACK
			
I 6 BROWN	(5VZ-FE) I 7 BROWN	(3RZ-FE) I 7 GRAY	I 8 BROWN
			
(Except 5VZ-FE 2WD) I 14	I 15	I 18	I 19
			
J 3 BLUE	J 4	J 5 BLACK	J 6 GRAY
			
J 11 BLACK	J 13	K 1 DARK GRAY	K 2 BLACK
			
O 1 GRAY	O 2	P 1 BLACK	P 3
			
		P 4	P 5
			
		P 6	P 7
			
		P 8 BLACK	P 9 BLACK
			
			N 1 BLACK
			
			N 2 GRAY
			

Connector List

1



P10



P11



P13 BLACK



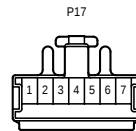
P14 BLUE



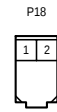
P15 BLUE



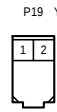
P16



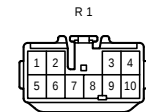
P17



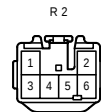
P18 YELLOW



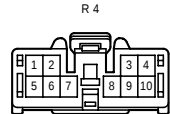
P19 YELLOW



R1



R2



R4



R5



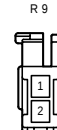
R6



R7



R8



R9



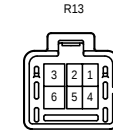
R10 GRAY



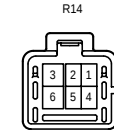
R11



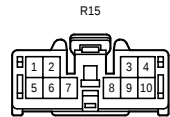
R12 BLACK



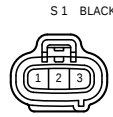
R13



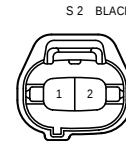
R14



R15



S1 BLACK

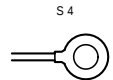


S2 BLACK

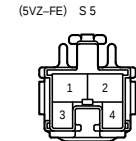
(5VZ-FE, 3RZ-FE) S3 BLACK



(1KZ-TE) S3 BLACK

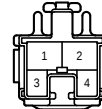


S4



(5VZ-FE) S5

(3RZ-FE, 1KZ-TE) S5 BLACK



S6 GRAY

(5VZ-FE, 3RZ-FE 2WD) T1 BLACK



(3RZ-FE 4WD) T1 BLACK



T2 BLACK



T3 GRAY



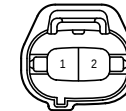
T4 BLACK



T5 GRAY



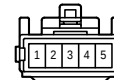
T6 GRAY



T7 BROWN



T8



(5VZ-FE) U1



(3RZ-FE, 1KZ-TE) U1 BLUE



V1 BLACK



V2 BLACK



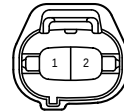
V6 GREEN



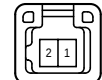
V7 BLACK



V8 BLUE



V10 BLUE



W1 DARK GRAY



(5VZ-FE) W2



(3RZ-FE, 1KZ-TE) W2 GRAY



W3 DARK GRAY

