Diagram 1

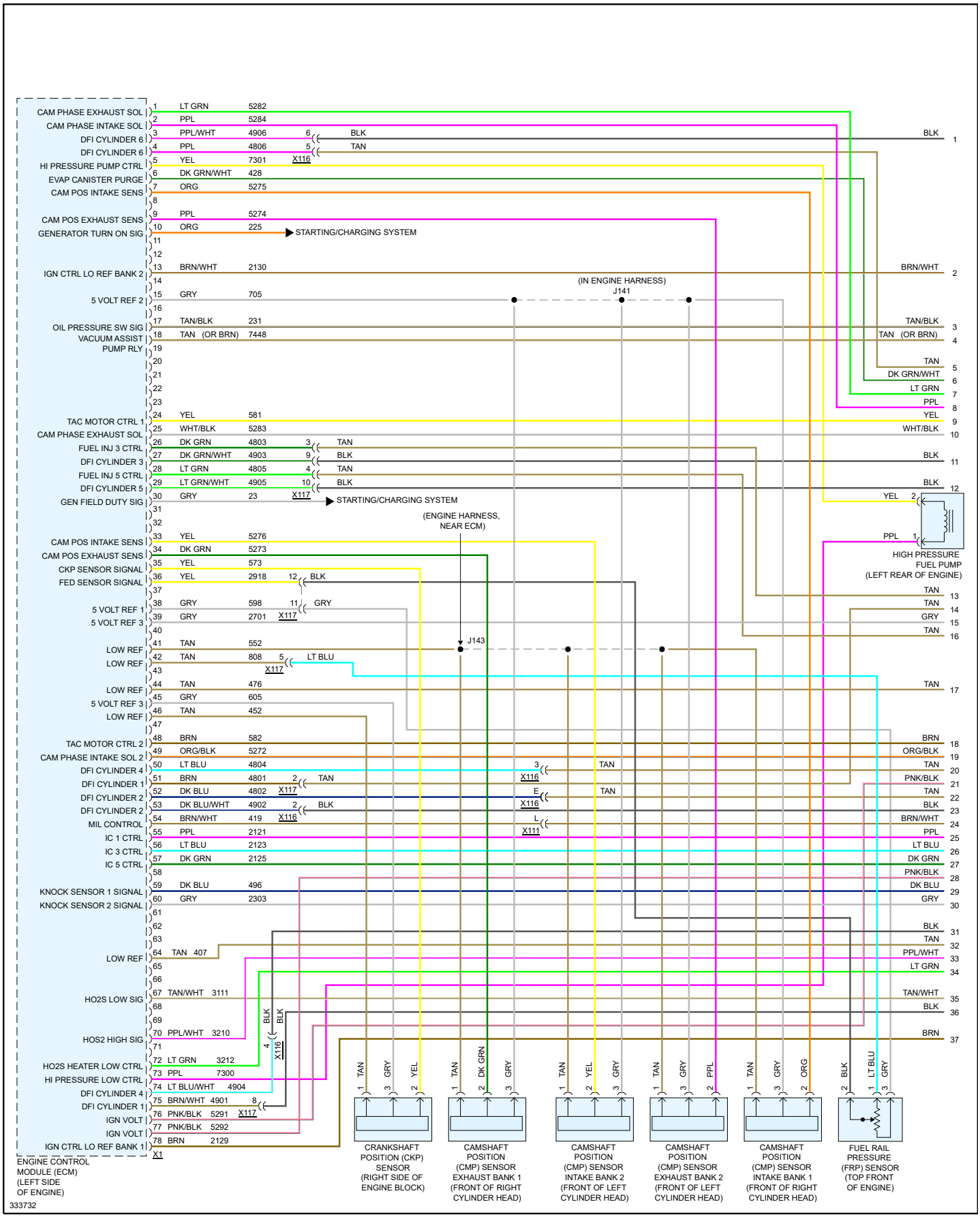

ENGINE CONTROL MODULE (ECM) (LEFT SIDE OF ENGINE)
X1
CAM PHASE EXHAUST SOL
CAM PHASE INTAKE SOL
DFI CYLINDER 6
DFI CYLINDER 6
HI PRESSURE PUMP CTRL
EVAP CANISTER PURGE
CAM POS INTAKE SENS
CAM POS EXHAUST SENS
GENERATOR TURN ON SIG
IGN CTRL LO REF BANK 2
5 VOLT REF 2
OIL PRESSURE SW SIG
VACUUM ASSIST PUMP RLY
TAC MOTOR CTRL 1
CAM PHASE EXHAUST SOL
FUEL INJ 3 CTRL
DFI CYLINDER 3
FUEL INJ 5 CTRL
DFI CYLINDER 5
GEN FIELD DUTY SIG
CAM POS INTAKE SENS
CAM POS EXHAUST SENS
CKP SENSOR SIGNAL
FED SENSOR SIGNAL
5 VOLT REF 1
5 VOLT REF 3
LOW REF
LOW REF
LOW REF
5 VOLT REF 3
LOW REF
TAC MOTOR CTRL 2
CAM PHASE INTAKE SOL 2
DFI CYLINDER 4
DFI CYLINDER 1
DFI CYLINDER 2
DFI CYLINDER 2
MIL CONTROL
IC 1 CTRL
IC 3 CTRL
IC 5 CTRL
KNOCK SENSOR 1 SIGNAL
KNOCK SENSOR 2 SIGNAL
LOW REF
HO2S LOW SIG
HOS2 HIGH SIG
HO2S HEATER LOW CTRL
HI PRESSURE LOW CTRL
DFI CYLINDER 4
DFI CYLINDER 1
IGN VOLT
IGN VOLT
IGN CTRL LO REF BANK 1
1 LT GRN 5282
2 PPL 5284
3 PPL/WHT 4906
4 PPL 4806
5 YEL 7301
6 DK GRN/WHT 428
7 ORG 5275
8
9 PPL 5274
10 ORG 225
11
12
13 BRN/WHT 2130
14
15 GRY 705
16
17 TAN/BLK 231
18 TAN (OR BRN) 7448
19
20
21
22
23
24 YEL 581
25 WHT/BLK 5283
26 DK GRN 4803
27 DK GRN/WHT 4903
28 LT GRN 4805
29 LT GRN/WHT 4905
30 GRY 23
31
32
33 YEL 5276
34 DK GRN 5273
35 YEL 573
36 YEL 2918
37
38 GRY 598
39 GRY 2701
40
41 TAN 552
42 TAN 808
43
44 TAN 476
45 GRY 605
46 TAN 452
47
48 BRN 582
49 ORG/BLK 5272
50 LT BLU 4804
51 BRN 4801
52 DK BLU 4802
53 DK BLU/WHT 4902
54 BRN/WHT 419
55 PPL 2121
56 LT BLU 2123
57 DK GRN 2125
58
59 DK BLU 496
60 GRY 2303
61
62
63
64 TAN 407
65
66
67 TAN/WHT 3111
68
69
70 PPL/WHT 3210
71
72 LT GRN 3212
73 PPL 7300
74 LT BLU/WHT 4904
75 BRN/WHT 4901
76 PNK/BLK 5291
77 PNK/BLK 5292
78 BRN 2129
6 BLK
5 TAN
X116
STARTING/CHARGING SYSTEM
(IN ENGINE HARNESS)
J141
3 TAN
9 BLK
4 TAN
10 BLK
X117
STARTING/CHARGING SYSTEM
(ENGINE HARNESS, NEAR ECM)
J143
12 BLK
11 GRY
X117
5 LT BLU
X117
2 TAN
X117
2 BLK
X116
4 BLK
BLK
X116
8
X117
3 TAN
X116
E TAN
X116
L
X111
BLK 1
BRN/WHT 2
TAN/BLK 3
TAN (OR BRN) 4
TAN 5
DK GRN/WHT 6
LT GRN 7
PPL 8
YEL 9
WHT/BLK 10
BLK 11
BLK 12
YEL 2
PPL 1
HIGH PRESSURE FUEL PUMP (LEFT REAR OF ENGINE)
TAN 13
TAN 14
GRY 15
TAN 16
TAN 17
BRN 18
ORG/BLK 19
TAN 20
PNK/BLK 21
TAN 22
BLK 23
BRN/WHT 24
PPL 25
LT BLU 26
DK GRN 27
PNK/BLK 28
DK BLU 29
GRY 30
BLK 31
TAN 32
PPL/WHT 33
LT GRN 34
TAN/WHT 35
BLK 36
BRN 37
1 TAN
3 GRY
2 YEL
CRANKSHAFT POSITION (CKP) SENSOR (RIGHT SIDE OF ENGINE BLOCK)
1 TAN
2 DK GRN
3 GRY
CAMSHAFT POSITION (CMP) SENSOR EXHAUST BANK 1 (FRONT OF RIGHT CYLINDER HEAD)
1 TAN
2 YEL
3 GRY
CAMSHAFT POSITION (CMP) SENSOR INTAKE BANK 2 (FRONT OF LEFT CYLINDER HEAD)
1 TAN
3 GRY
2 PPL
CAMSHAFT POSITION (CMP) SENSOR EXHAUST BANK 2 (FRONT OF LEFT CYLINDER HEAD)
1 TAN
3 GRY
2 ORG
CAMSHAFT POSITION (CMP) SENSOR INTAKE BANK 1 (FRONT OF RIGHT CYLINDER HEAD)
2 BLK
1 LT BLU
3 GRY
FUEL RAIL PRESSURE (FRP) SENSOR (TOP FRONT OF ENGINE)
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Diagram 2

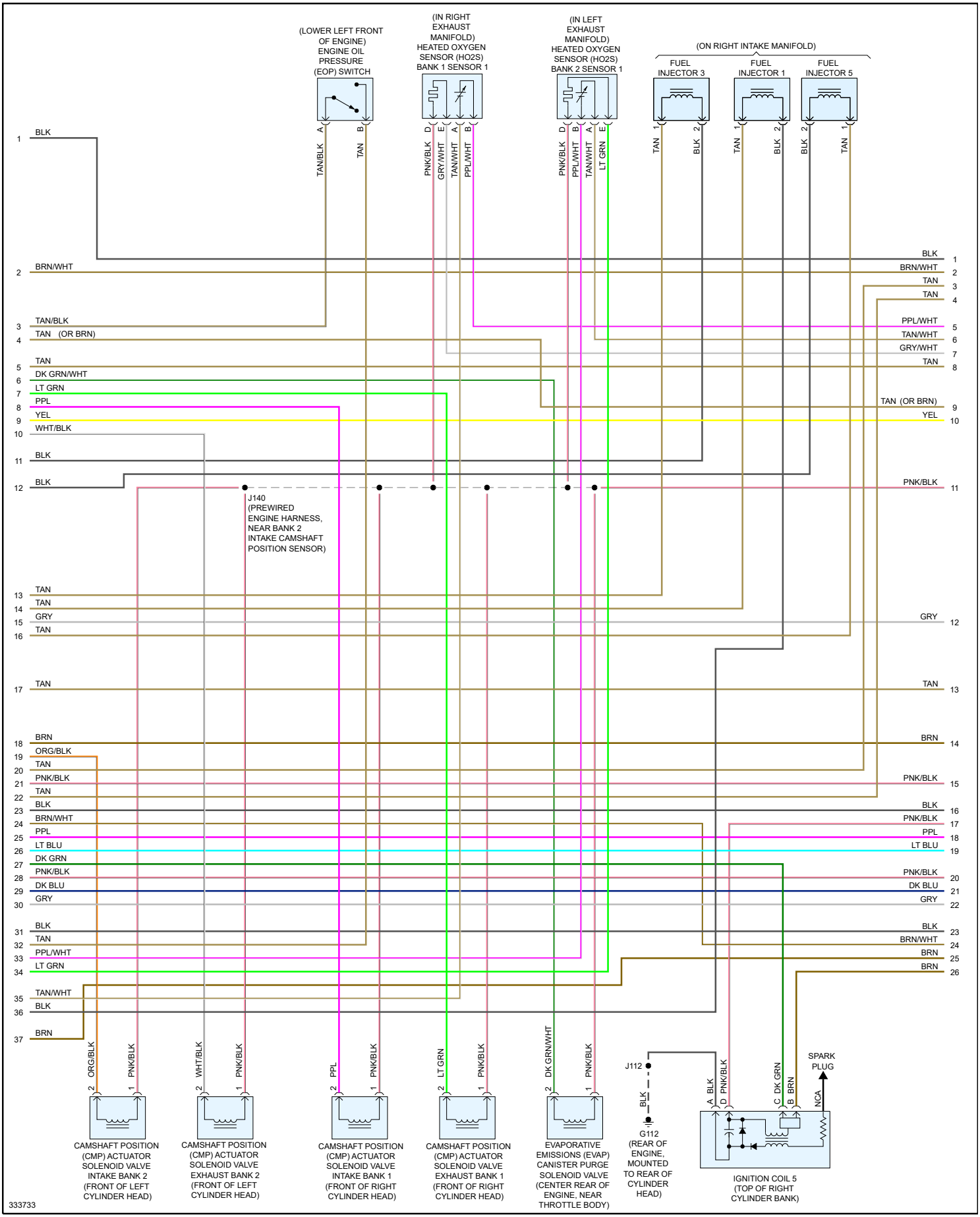

(LOWER LEFT FRONT OF ENGINE) ENGINE OIL PRESSURE (EOP) SWITCH
(IN RIGHT EXHAUST MANIFOLD) HEATED OXYGEN SENSOR (HO2S) BANK 1 SENSOR 1
(IN LEFT EXHAUST MANIFOLD) HEATED OXYGEN SENSOR (HO2S) BANK 2 SENSOR 1
(ON RIGHT INTAKE MANIFOLD)
FUEL INJECTOR 3
FUEL INJECTOR 1
FUEL INJECTOR 5
J140 (PREWIRED ENGINE HARNESS, NEAR BANK 2 INTAKE CAMSHAFT POSITION SENSOR)
CAMSHAFT POSITION (CMP) ACTUATOR SOLENOID VALVE INTAKE BANK 2 (FRONT OF LEFT CYLINDER HEAD)
CAMSHAFT POSITION (CMP) ACTUATOR SOLENOID VALVE EXHAUST BANK 2 (FRONT OF LEFT CYLINDER HEAD)
CAMSHAFT POSITION (CMP) ACTUATOR SOLENOID VALVE INTAKE BANK 1 (FRONT OF RIGHT CYLINDER HEAD)
CAMSHAFT POSITION (CMP) ACTUATOR SOLENOID VALVE EXHAUST BANK 1 (FRONT OF RIGHT CYLINDER HEAD)
EVAPORATIVE EMISSIONS (EVAP) CANISTER PURGE SOLENOID VALVE (CENTER REAR OF ENGINE, NEAR THROTTLE BODY)
G112 (REAR OF ENGINE, MOUNTED TO REAR OF CYLINDER HEAD)
IGNITION COIL 5 (TOP OF RIGHT CYLINDER BANK)
SPARK PLUG
333733

Diagram 3

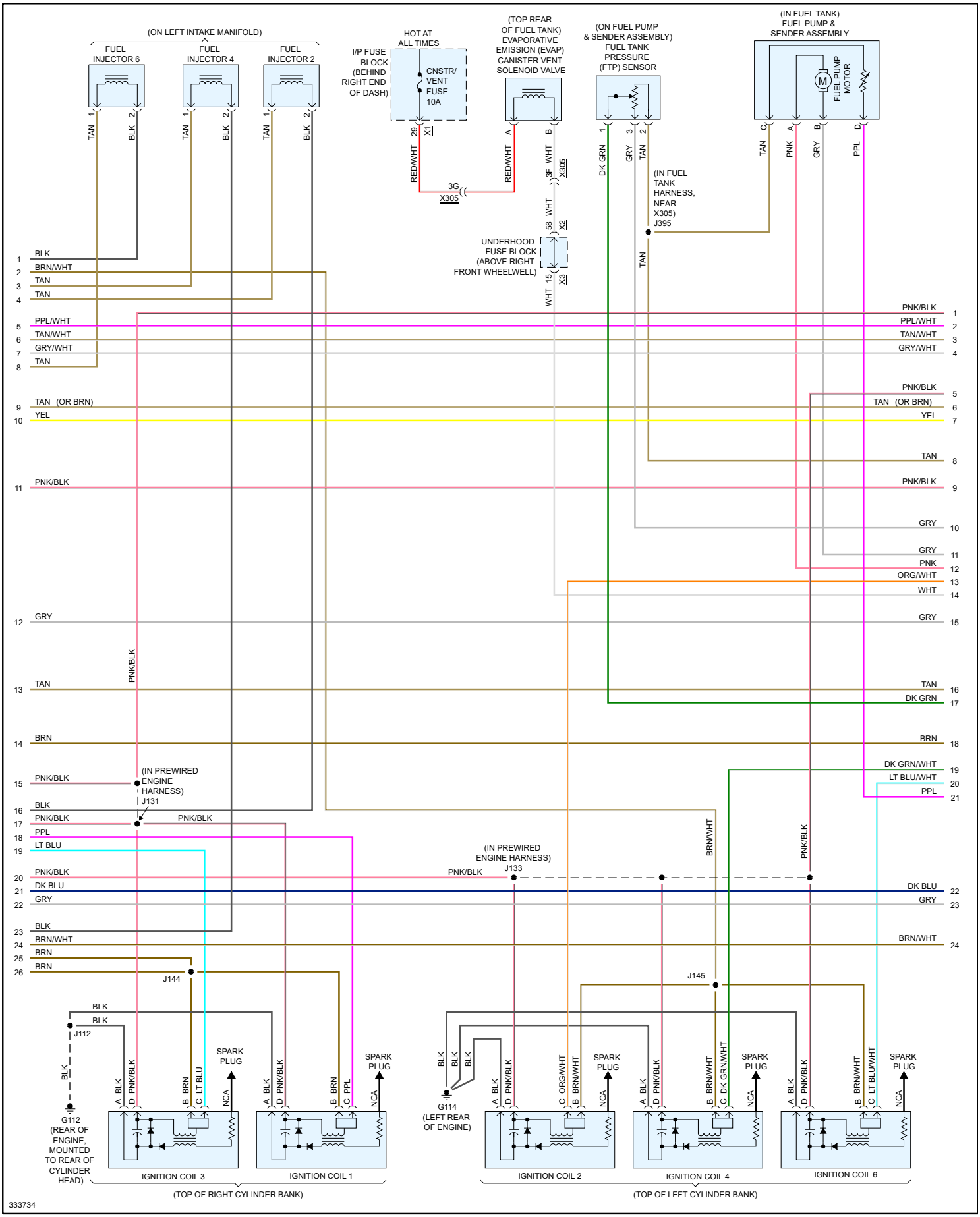

(ON LEFT INTAKE MANIFOLD)
FUEL INJECTOR 6
FUEL INJECTOR 4
FUEL INJECTOR 2
HOT AT ALL TIMES
I/P FUSE BLOCK (BEHIND RIGHT END OF DASH)
CNSTR/ VENT FUSE 10A
(TOP REAR OF FUEL TANK) EVAPORATIVE EMISSION (EVAP) CANISTER VENT SOLENOID VALVE
(ON FUEL PUMP & SENDER ASSEMBLY) FUEL TANK PRESSURE (FTP) SENSOR
(IN FUEL TANK) FUEL PUMP & SENDER ASSEMBLY
FUEL PUMP MOTOR
(IN FUEL TANK HARNESS, NEAR X305) J395
UNDERHOOD FUSE BLOCK (ABOVE RIGHT FRONT WHEELWELL)
(IN PREWIRED ENGINE HARNESS) J131
(IN PREWIRED ENGINE HARNESS) J133
J144
J145
J112
G112 (REAR OF ENGINE, MOUNTED TO REAR OF CYLINDER HEAD)
G114 (LEFT REAR OF ENGINE)
SPARK PLUG
IGNITION COIL 3
IGNITION COIL 1
IGNITION COIL 2
IGNITION COIL 4
IGNITION COIL 6
(TOP OF RIGHT CYLINDER BANK)
(TOP OF LEFT CYLINDER BANK)
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Diagram 4

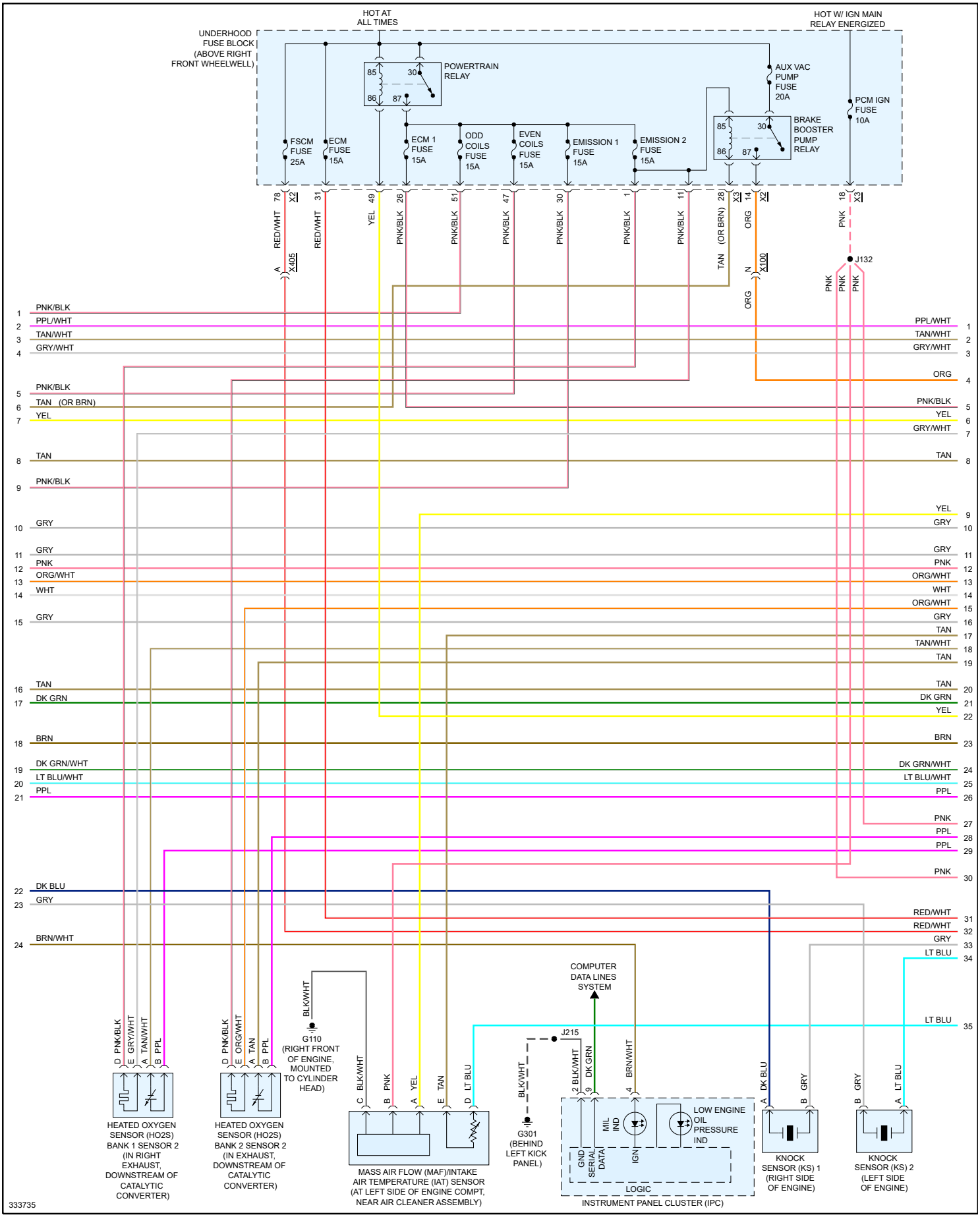

HOT AT ALL TIMES
HOT W/ IGN MAIN RELAY ENERGIZED
UNDERHOOD FUSE BLOCK (ABOVE RIGHT FRONT WHEELWELL)
POWERTRAIN RELAY
AUX VAC PUMP FUSE 20A
PCM IGN FUSE 10A
BRAKE BOOSTER PUMP RELAY
FSCM FUSE 25A
ECM FUSE 15A
ECM 1 FUSE 15A
ODD COILS FUSE 15A
EVEN COILS FUSE 15A
EMISSION 1 FUSE 15A
EMISSION 2 FUSE 15A
J132
X405
X100
HEATED OXYGEN SENSOR (HO2S) BANK 1 SENSOR 2 (IN RIGHT EXHAUST, DOWNSTREAM OF CATALYTIC CONVERTER)
HEATED OXYGEN SENSOR (HO2S) BANK 2 SENSOR 2 (IN EXHAUST, DOWNSTREAM OF CATALYTIC CONVERTER)
G110 (RIGHT FRONT OF ENGINE, MOUNTED TO CYLINDER HEAD)
MASS AIR FLOW (MAF)/INTAKE AIR TEMPERATURE (IAT) SENSOR (AT LEFT SIDE OF ENGINE COMPT, NEAR AIR CLEANER ASSEMBLY)
G301 (BEHIND LEFT KICK PANEL)
J215
COMPUTER DATA LINES SYSTEM
MIL IND
LOW ENGINE OIL PRESSURE IND
GND
SERIAL DATA
IGN
LOGIC
INSTRUMENT PANEL CLUSTER (IPC)
KNOCK SENSOR (KS) 1 (RIGHT SIDE OF ENGINE)
KNOCK SENSOR (KS) 2 (LEFT SIDE OF ENGINE)
333735

Diagram 5

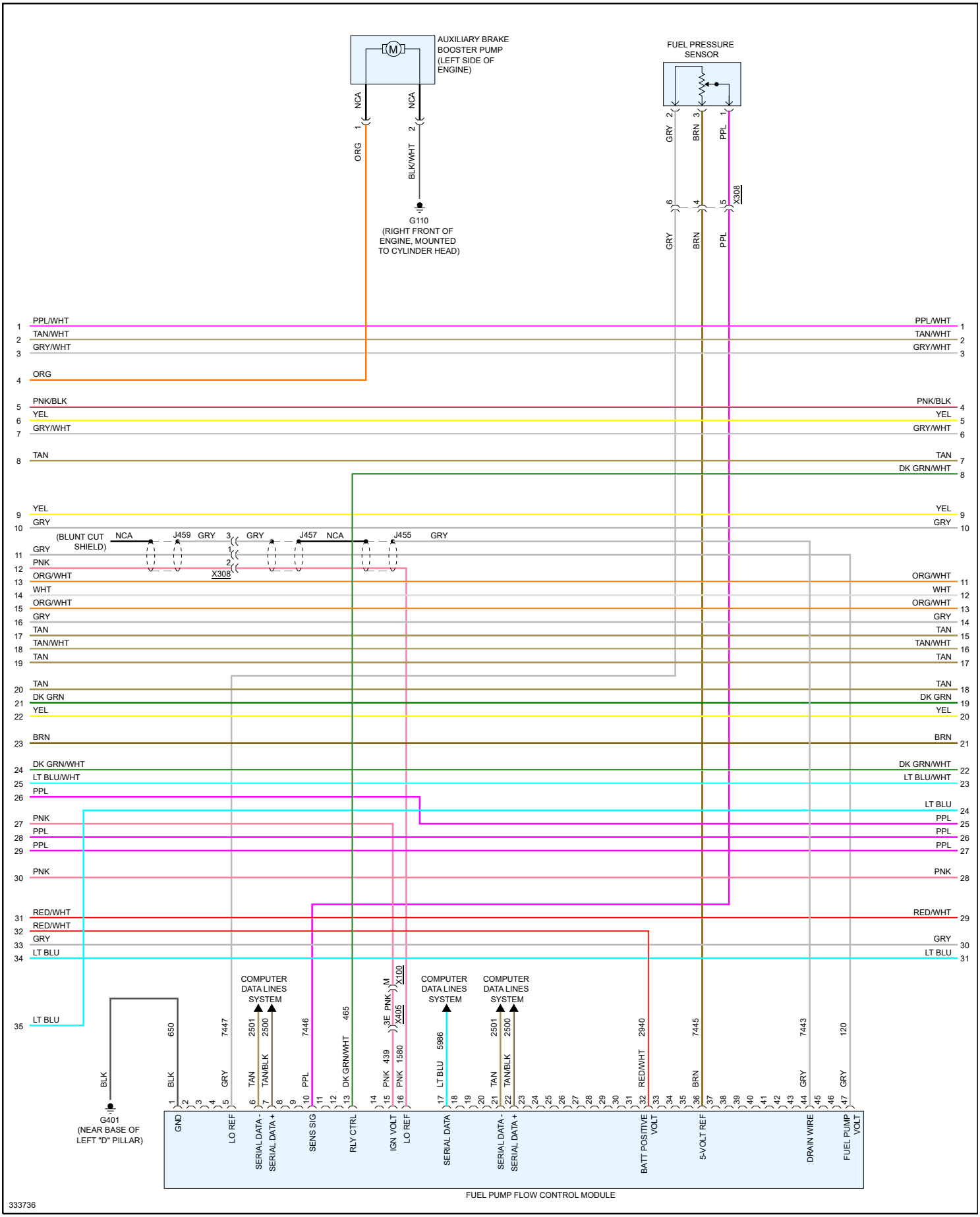
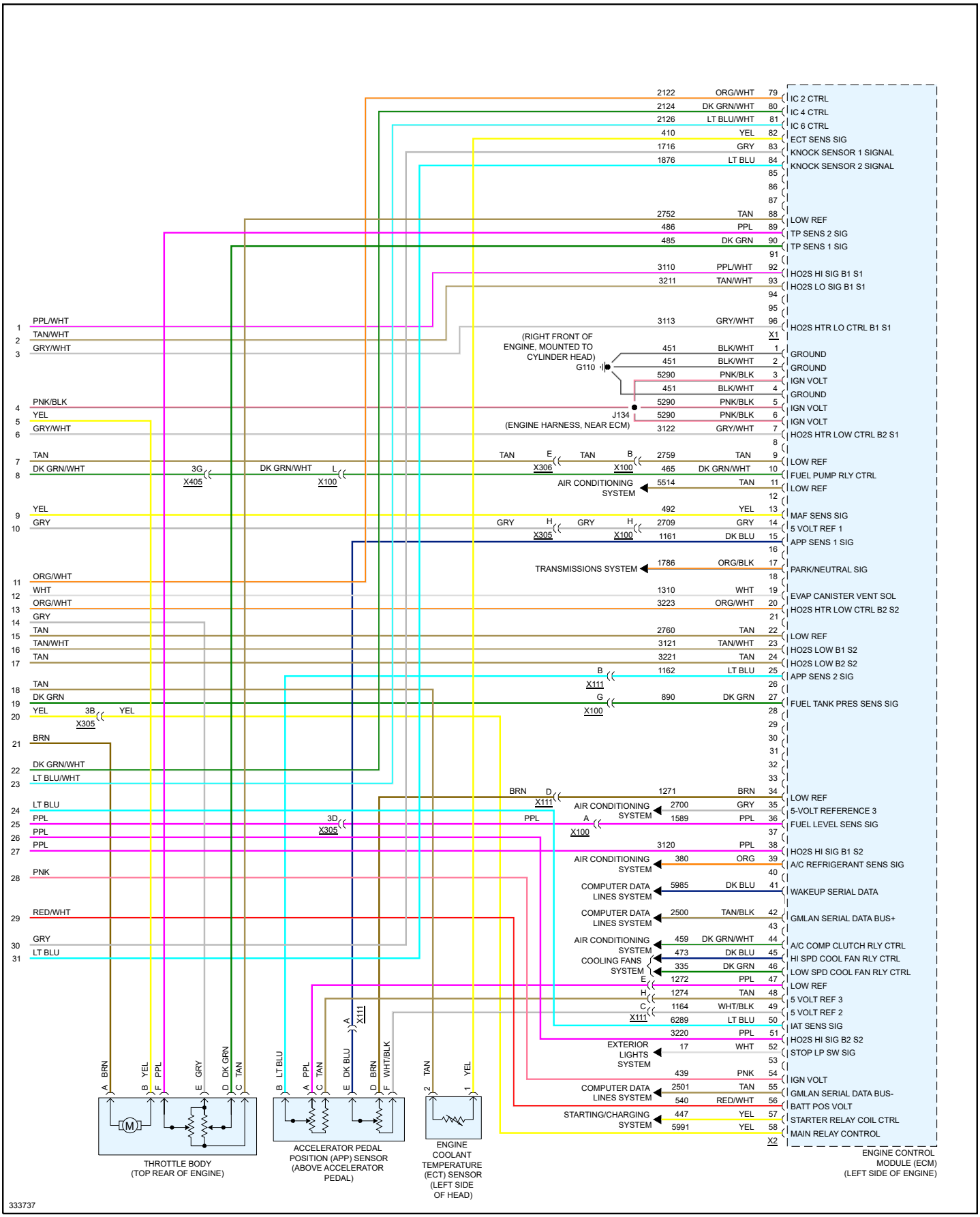

AUXILIARY BRAKE BOOSTER PUMP (LEFT SIDE OF ENGINE)
FUEL PRESSURE SENSOR
G110 (RIGHT FRONT OF ENGINE, MOUNTED TO CYLINDER HEAD)
G401 (NEAR BASE OF LEFT "D" PILLAR)
(BLUNT CUT SHIELD)
COMPUTER DATA LINES SYSTEM
FUEL PUMP FLOW CONTROL MODULE
GND
LO REF
SERIAL DATA -
SERIAL DATA +
SENS SIG
RLY CTRL
IGN VOLT
SERIAL DATA
BATT POSITIVE VOLT
5-VOLT REF
DRAIN WIRE
FUEL PUMP VOLT
333736

Diagram 6


ENGINE CONTROL MODULE (ECM) (LEFT SIDE OF ENGINE)
IC 2 CTRL
IC 4 CTRL
IC 6 CTRL
ECT SENS SIG
KNOCK SENSOR 1 SIGNAL
KNOCK SENSOR 2 SIGNAL
LOW REF
TP SENS 2 SIG
TP SENS 1 SIG
HO2S HI SIG B1 S1
HO2S LO SIG B1 S1
HO2S HTR LO CTRL B1 S1
GROUND
GROUND
IGN VOLT
GROUND
IGN VOLT
IGN VOLT
HO2S HTR LOW CTRL B2 S1
LOW REF
FUEL PUMP RLY CTRL
LOW REF
MAF SENS SIG
5 VOLT REF 1
APP SENS 1 SIG
PARK/NEUTRAL SIG
EVAP CANISTER VENT SOL
HO2S HTR LOW CTRL B2 S2
LOW REF
HO2S LOW B1 S2
HO2S LOW B2 S2
APP SENS 2 SIG
FUEL TANK PRES SENS SIG
LOW REF
5-VOLT REFERENCE 3
FUEL LEVEL SENS SIG
HO2S HI SIG B1 S2
A/C REFRIGERANT SENS SIG
WAKEUP SERIAL DATA
GMLAN SERIAL DATA BUS+
A/C COMP CLUTCH RLY CTRL
HI SPD COOL FAN RLY CTRL
LOW SPD COOL FAN RLY CTRL
LOW REF
5 VOLT REF 3
5 VOLT REF 2
IAT SENS SIG
HO2S HI SIG B2 S2
STOP LP SW SIG
IGN VOLT
GMLAN SERIAL DATA BUS-
BATT POS VOLT
STARTER RELAY COIL CTRL
MAIN RELAY CONTROL
(RIGHT FRONT OF ENGINE, MOUNTED TO CYLINDER HEAD)
G110
J134
(ENGINE HARNESS, NEAR ECM)
AIR CONDITIONING SYSTEM
TRANSMISSIONS SYSTEM
COMPUTER DATA LINES SYSTEM
COOLING FANS SYSTEM
EXTERIOR LIGHTS SYSTEM
STARTING/CHARGING SYSTEM
THROTTLE BODY (TOP REAR OF ENGINE)
ACCELERATOR PEDAL POSITION (APP) SENSOR (ABOVE ACCELERATOR PEDAL)
ENGINE COOLANT TEMPERATURE (ECT) SENSOR (LEFT SIDE OF HEAD)
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