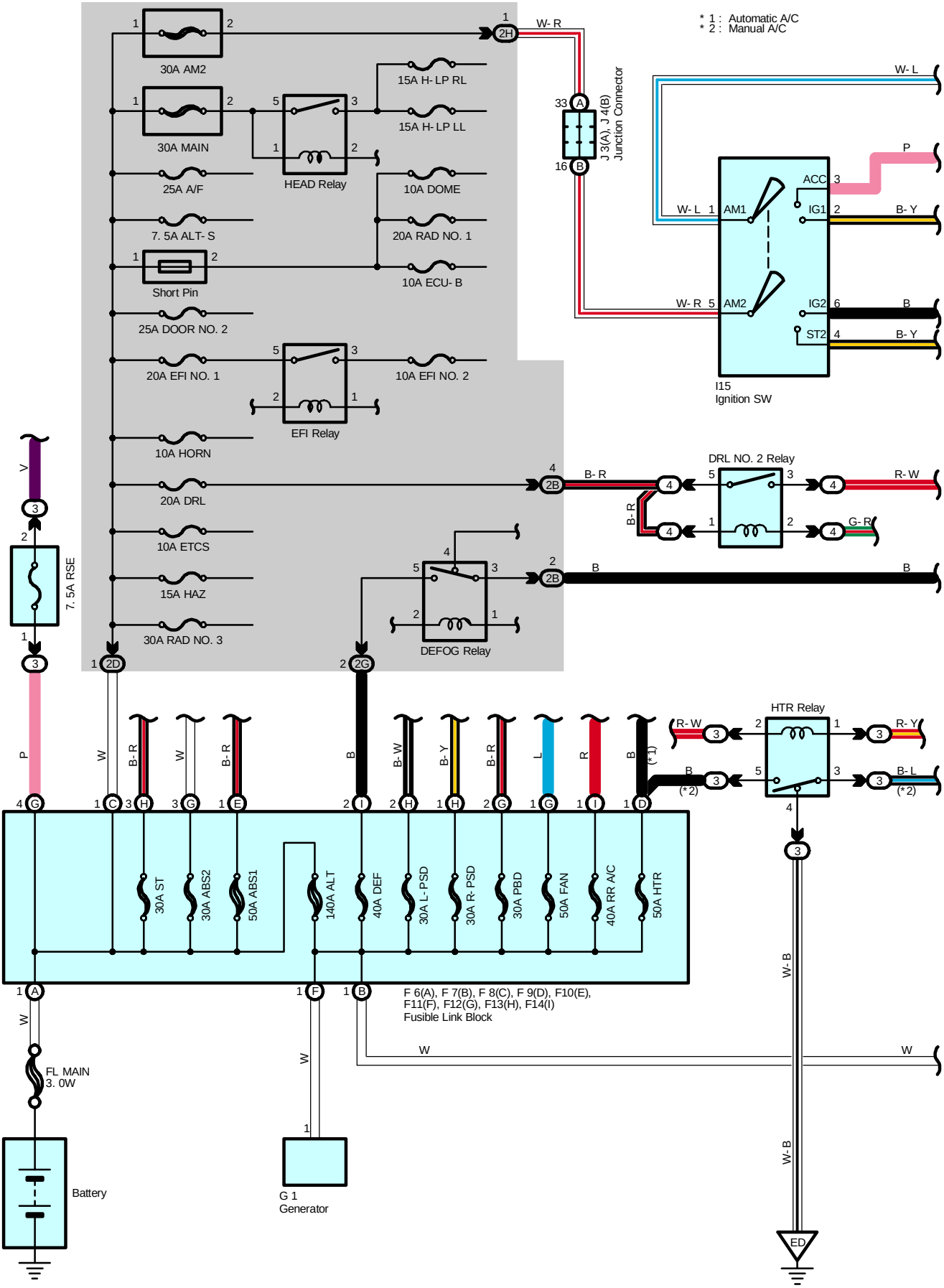
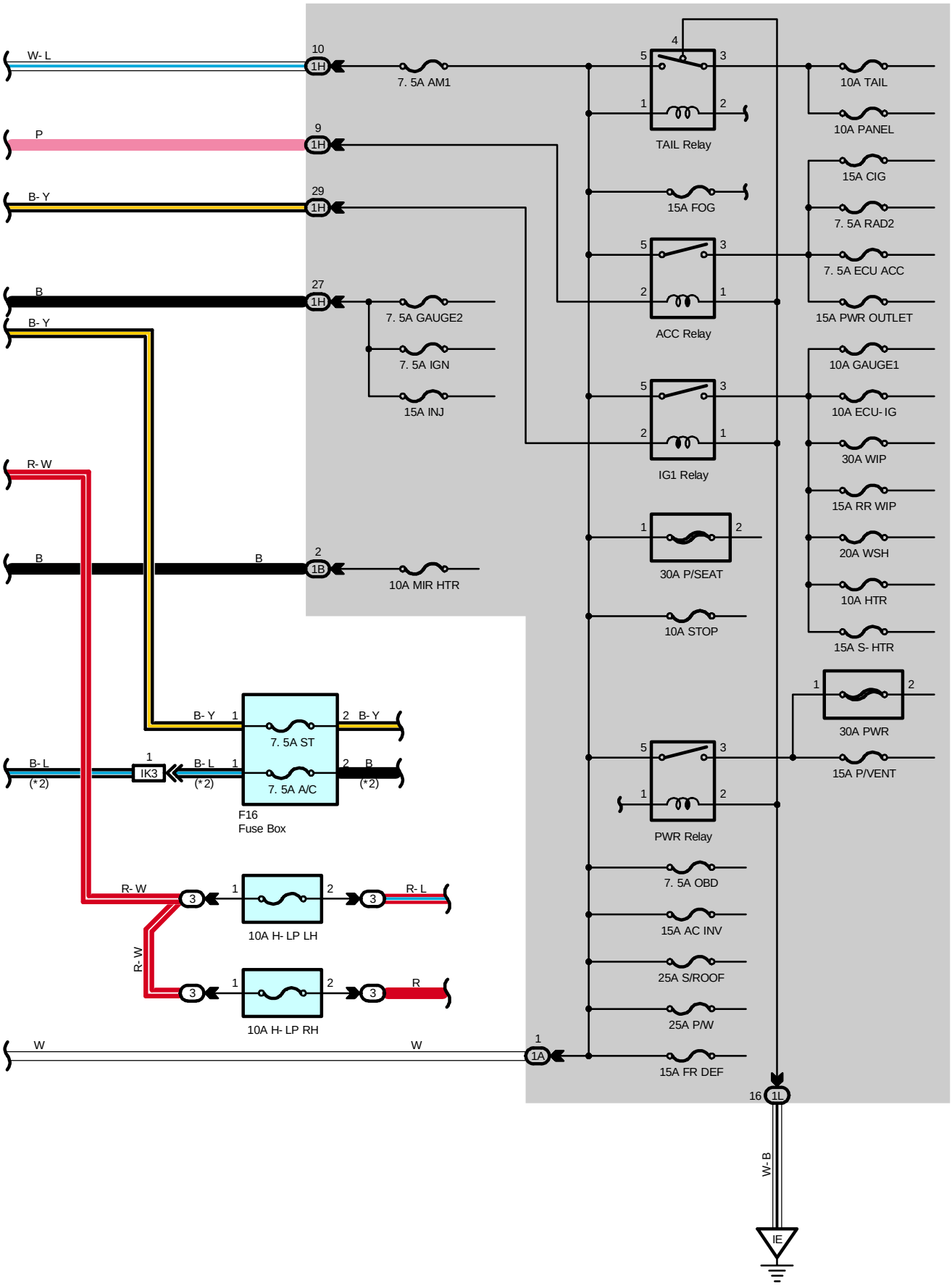

* 1 : Automatic A/C
* 2 : Manual A/C
30A AM2
30A MAIN
25A A/F
7. 5A ALT- S
Short Pin
25A DOOR NO. 2
20A EFI NO. 1
10A HORN
20A DRL
10A ETCS
15A HAZ
30A RAD NO. 3
15A H- LP RL
15A H- LP LL
HEAD Relay
10A DOME
20A RAD NO. 1
10A ECU- B
10A EFI NO. 2
EFI Relay
DEFOG Relay
J 3(A), J 4(B) Junction Connector
I15 Ignition SW
ACC
IG1
AM1
AM2
IG2
ST2
DRL NO. 2 Relay
HTR Relay
7. 5A RSE
30A ST
30A ABS2
50A ABS1
140A ALT
40A DEF
30A L- PSD
30A R- PSD
30A PBD
50A FAN
40A RR A/C
50A HTR
F 6(A), F 7(B), F 8(C), F 9(D), F10(E), F11(F), F12(G), F13(H), F14(I) Fusible Link Block
FL MAIN 3. 0W
Battery
G 1 Generator
W- L
W- R
B- R
B- Y
R- W
G- R
R- Y
B- L
W- B
P
W
B
L
R
B- W
(*1)
(*2)


W- L
10
1H
7. 5A AM1
P
9
1H
B- Y
29
1H
B
27
1H
B- Y
7. 5A GAUGE2
7. 5A IGN
15A INJ
R- W
B
B
2
1B
10A MIR HTR
B- Y
1
7. 5A ST
2
B- Y
B- L
(*2)
1
IK3
B- L
1
(*2)
7. 5A A/C
2
B
(*2)
F16
Fuse Box
R- W
3
1
10A H- LP LH
2
3
R- L
R- W
3
1
10A H- LP RH
2
3
R
W
W
1
1A
4
5
3
1
2
TAIL Relay
15A FOG
5
3
2
1
ACC Relay
5
3
2
1
IG1 Relay
1
2
30A P/SEAT
10A STOP
5
3
1
2
PWR Relay
7. 5A OBD
15A AC INV
25A S/ROOF
25A P/W
15A FR DEF
10A TAIL
10A PANEL
15A CIG
7. 5A RAD2
7. 5A ECU ACC
15A PWR OUTLET
10A GAUGE1
10A ECU- IG
30A WIP
15A RR WIP
20A WSH
10A HTR
15A S- HTR
1
2
30A PWR
15A P/VENT
16
1L
W- B
IE

Power Source

Service Hints

I15 Ignition SW

1-3 : Closed with the ignition key at ACC or ON position
1-2 : Closed with the ignition key at ON or ST position
5-6 : Closed with the ignition key at ON or ST position
5-4 : Closed with the ignition key at ST position

: Parts Location

Code		See Page	Code		See Page	Code		See Page
F6	A	32	F11	F	32	G1		32
F7	B	32	F12	G	32	I15		35
F8	C	32	F13	H	32	J3	A	36
F9	D	32	F14	I	32	J4	B	36
F10	E	32	F16		35			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)
4	24	R/B No.4 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

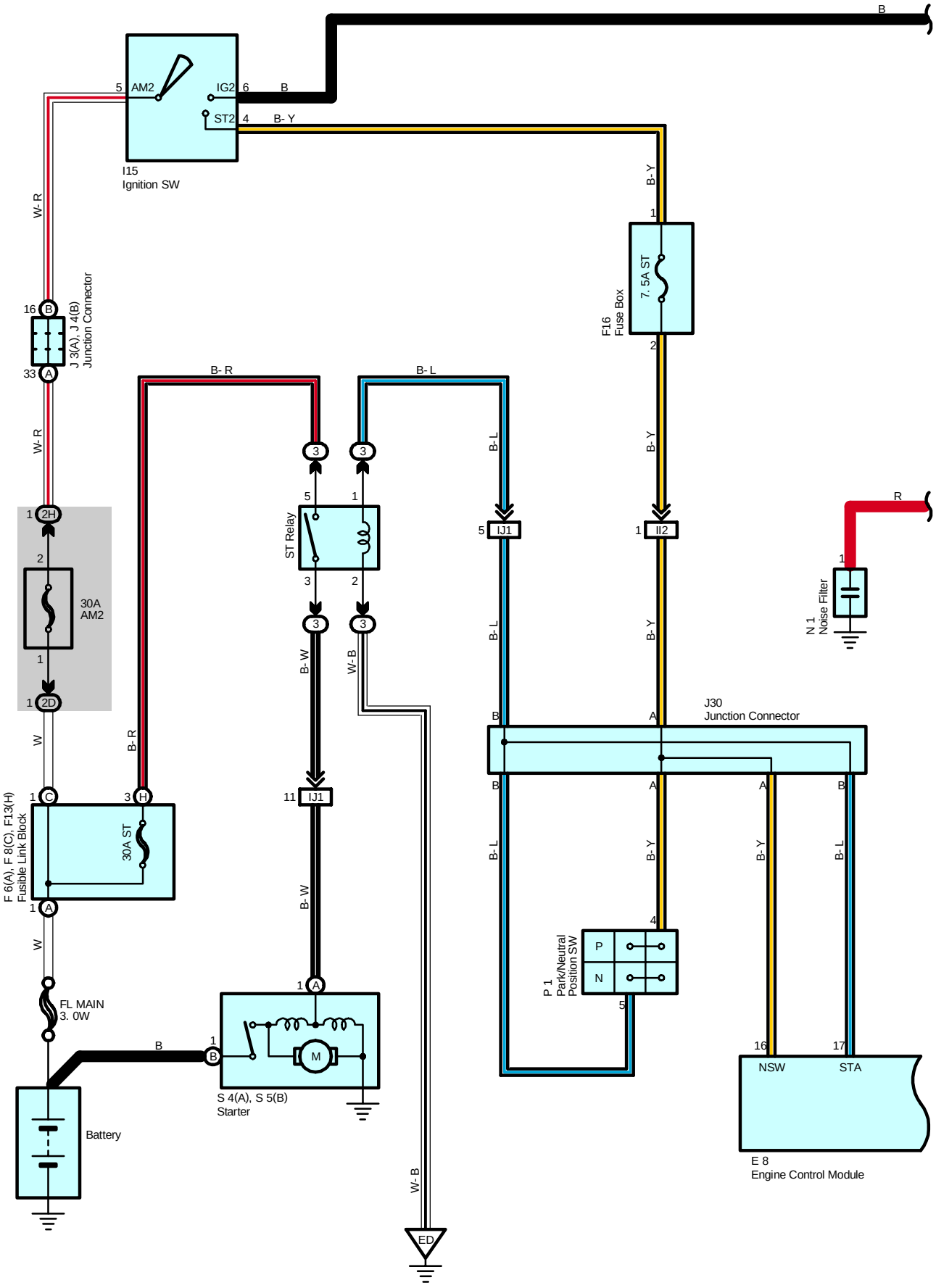
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1B		
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L	27	
2B	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D		
2G		
2H		

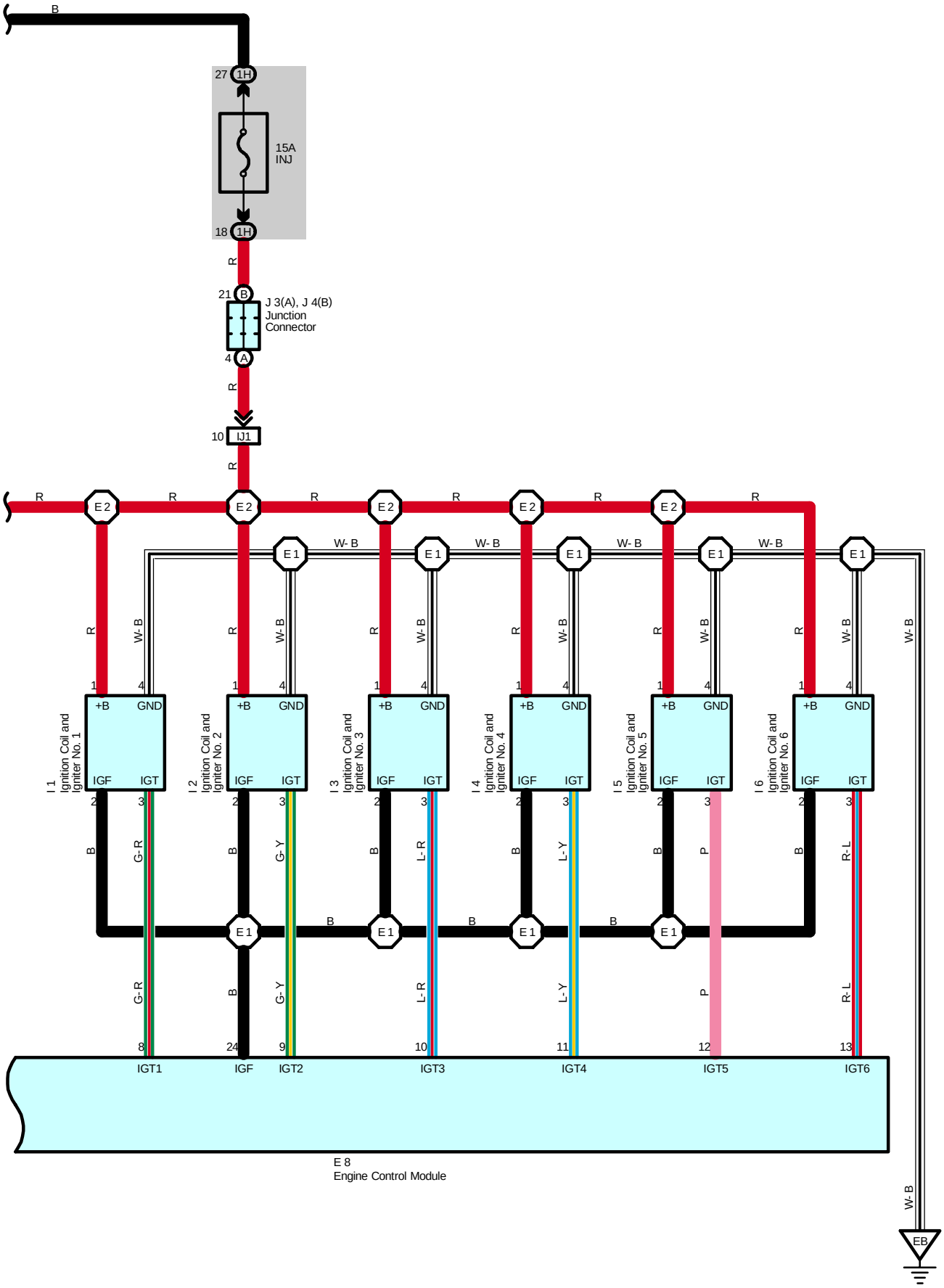
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IK3	48	Engine Room Main Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel


B
5 AM2
IG2 6
B
ST2 4
B- Y
I15
Ignition SW
W- R
16 B
33 A
J 3(A), J 4(B)
Junction Connector
B- Y
1
7. 5A ST
F16
Fuse Box
2
B- R
B- L
3
3
5
1
ST Relay
3
2
3
3
B- W
W- B
B- L
5 IJ1
1 IJ2
B- Y
R
1
N 1
Noise Filter
1 2H
2
30A
AM2
1
1 2D
W
B- R
J30
Junction Connector
B
A
1 C
3 H
30A ST
F 6(A), F 8(C), F13(H)
Fusible Link Block
1 A
11 IJ1
B- W
B- L
B- Y
A
B
4
P
N
P 1
Park/Neutral
Position SW
5
W
FL MAIN
3. 0W
1 A
B
1 B
M
S 4(A), S 5(B)
Starter
Battery
W- B
ED
16
17
NSW
STA
E 8
Engine Control Module


B
27 1H
15A
INJ
18 1H
R
21 B
J 3(A), J 4(B)
Junction
Connector
4 A
R
10 IJ1
R
R
E 2
R
E 2
R
E 2
R
E 2
R
E 2
R
E 2
R
E 1
W- B
E 1
W- B
E 1
W- B
E 1
W- B
E 1
W- B
I 1
Ignition Coil and
Igniter No. 1
I 2
Ignition Coil and
Igniter No. 2
I 3
Ignition Coil and
Igniter No. 3
I 4
Ignition Coil and
Igniter No. 4
I 5
Ignition Coil and
Igniter No. 5
I 6
Ignition Coil and
Igniter No. 6
+B
GND
IGF
IGT
1
4
2
3
B
G- R
G- Y
L- R
L- Y
P
R- L
E 1
B
B
B
B
B
8
24
9
10
11
12
13
IGT1
IGF
IGT2
IGT3
IGT4
IGT5
IGT6
E 8
Engine Control Module
W- B
EB

Service Hints

I15 Ignition SW

5-6 : Closed with the ignition SW at ON or ST position
5-4 : Closed with the ignition SW at ST position

P1 Park/Neutral Position SW

4-5 : Closed with the A/T shift lever in P or N position

S4 (A), S5 (B) Starter

Points closed with the Park/Neutral position SW at P or N position and the ignition SW at ST position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
E8	35	I3	33	J30	36
F6 A	32	I4	33	N1	33
F8 C	32	I5	33	P1	33
F13 H	32	I6	33	S4 A	33
F16	35	I15	35	S5 B	33
I1	33	J3 A	36		
I2	33	J4 B	36		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2D	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		

: Connector Joining Wire Harness and Wire Harness

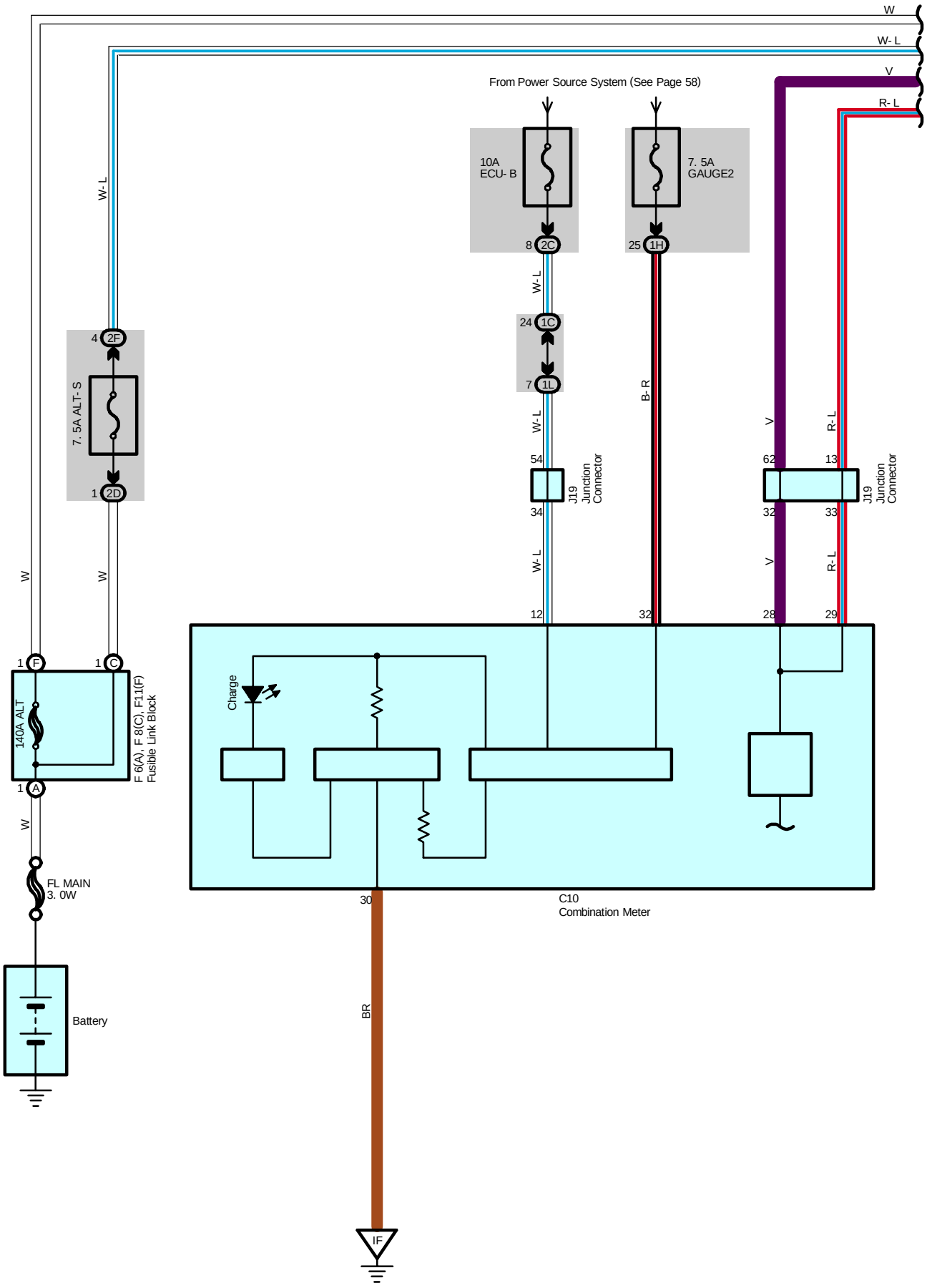
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II2	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IJ1	48	Engine Wire and Engine Room Main Wire (Right Kick Panel)

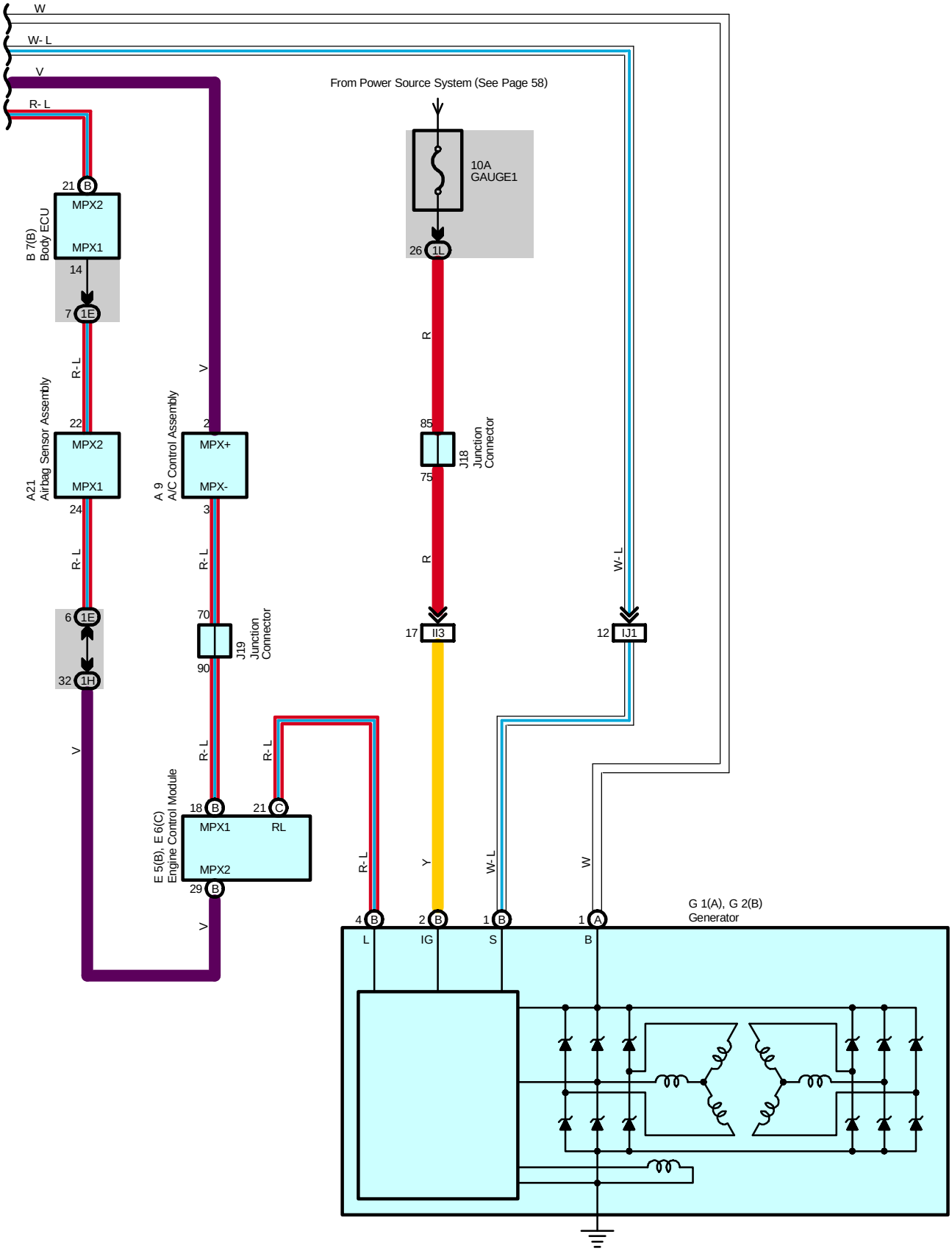
: Ground Points

Code	See Page	Ground Points Location
EB	44	Rear Bank of Right Cylinder Head
ED	44	Front Side of the Left Fender Apron

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	44	Engine Wire	E2	44	Engine Wire


W
W- L
V
R- L
From Power Source System (See Page 58)
10A
ECU- B
7. 5A
GAUGE2
8 2C
25 1H
W- L
24 1C
7 1L
B- R
W- L
54
34
J19
Junction
Connector
W- L
12
32
V
62
32
R- L
13
33
J19
Junction
Connector
V
28
R- L
29
4 2F
7. 5A ALT- S
1 2D
W
W
1 F
1 C
140A ALT
F 6(A), F 8(C), F11(F)
Fusible Link Block
1 A
W
FL MAIN
3. 0W
Battery
Charge
30
C10
Combination Meter
BR
IF


W
W- L
V
R- L
From Power Source System (See Page 58)
10A
GAUGE1
26 1L
R
85
J18
Junction
Connector
75
R
W- L
17 II3
12 IJ1
21 B
MPX2
MPX1
B 7(B)
Body ECU
14
7 1E
R- L
22
MPX2
MPX1
A21
Airbag Sensor Assembly
24
R- L
6 1E
32 1H
V
V
2
MPX+
MPX-
A 9
A/C Control Assembly
3
R- L
70
J19
Junction
Connector
90
R- L
R- L
18 B
21 C
MPX1
RL
MPX2
29 B
E 5(B), E 6(C)
Engine Control Module
V
R- L
Y
W- L
W
4 B
2 B
1 B
1 A
L
IG
S
B
G 1(A), G 2(B)
Generator

Charging

Service Hints

G2 (B) Generator

(B) 1-Ground : 13.2-14.0 volts with the engine running at 5000 rpm and 115°C (239°F)

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	E6 C	35	G2 B	32
A21	34	F6 A	32	J18	36
B7 B	34	F8 C	32	J19	36
C10	35	F11 F	32		
E5 B	35	G1 A	32		

: Junction Block and Wire Harness Connector

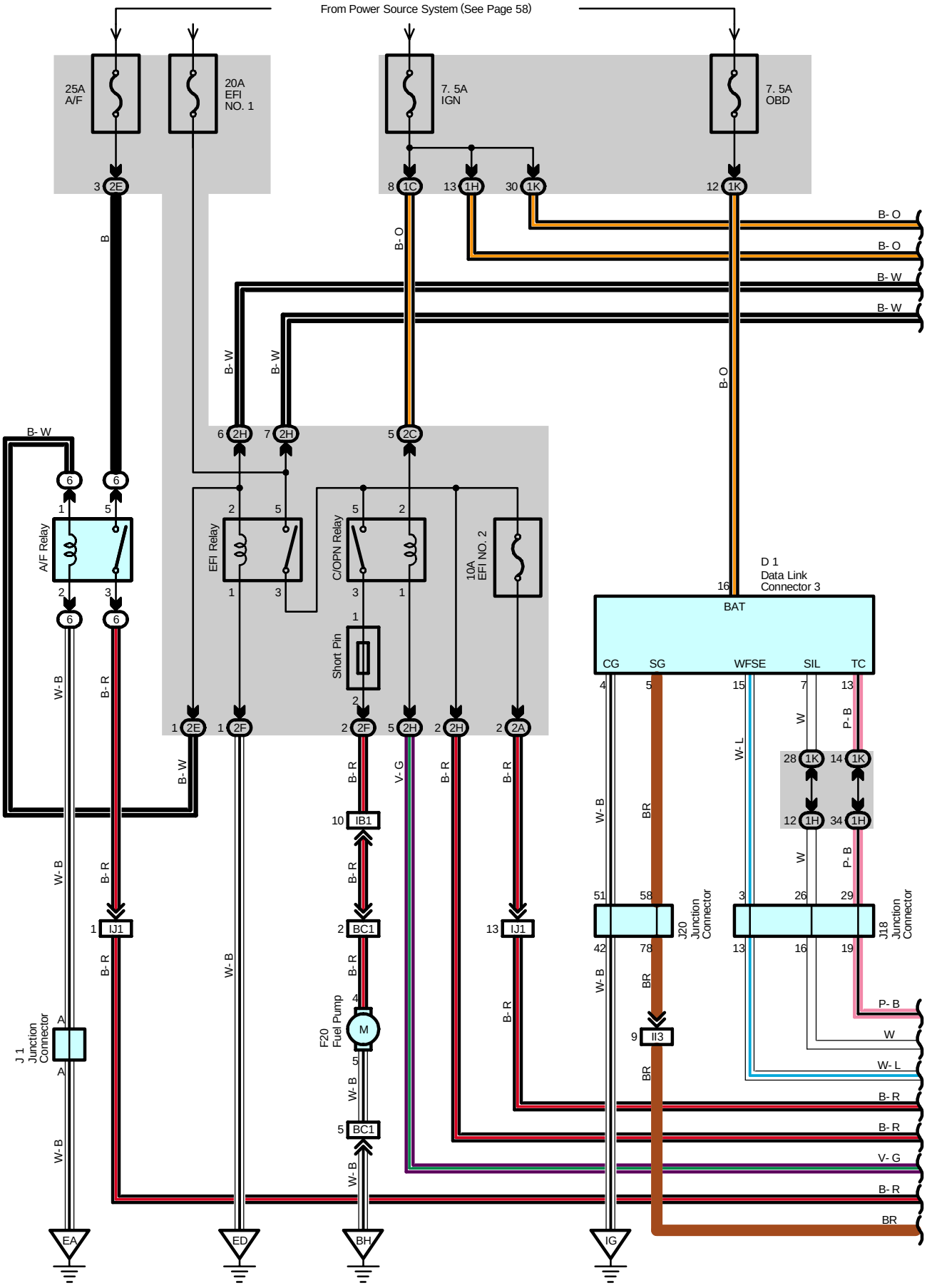
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1L	27	
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D		
2F		

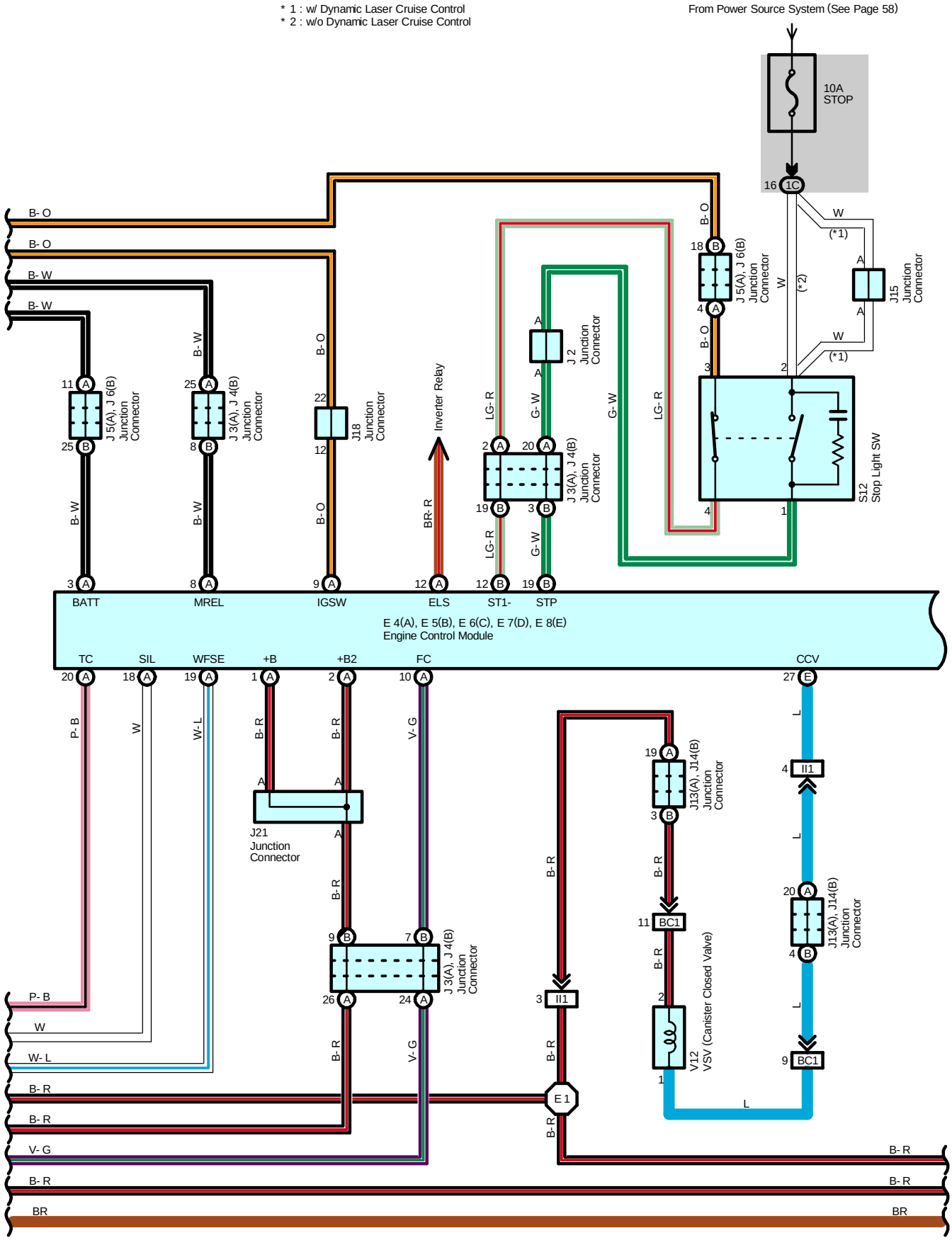
: Connector Joining Wire Harness and Wire Harness

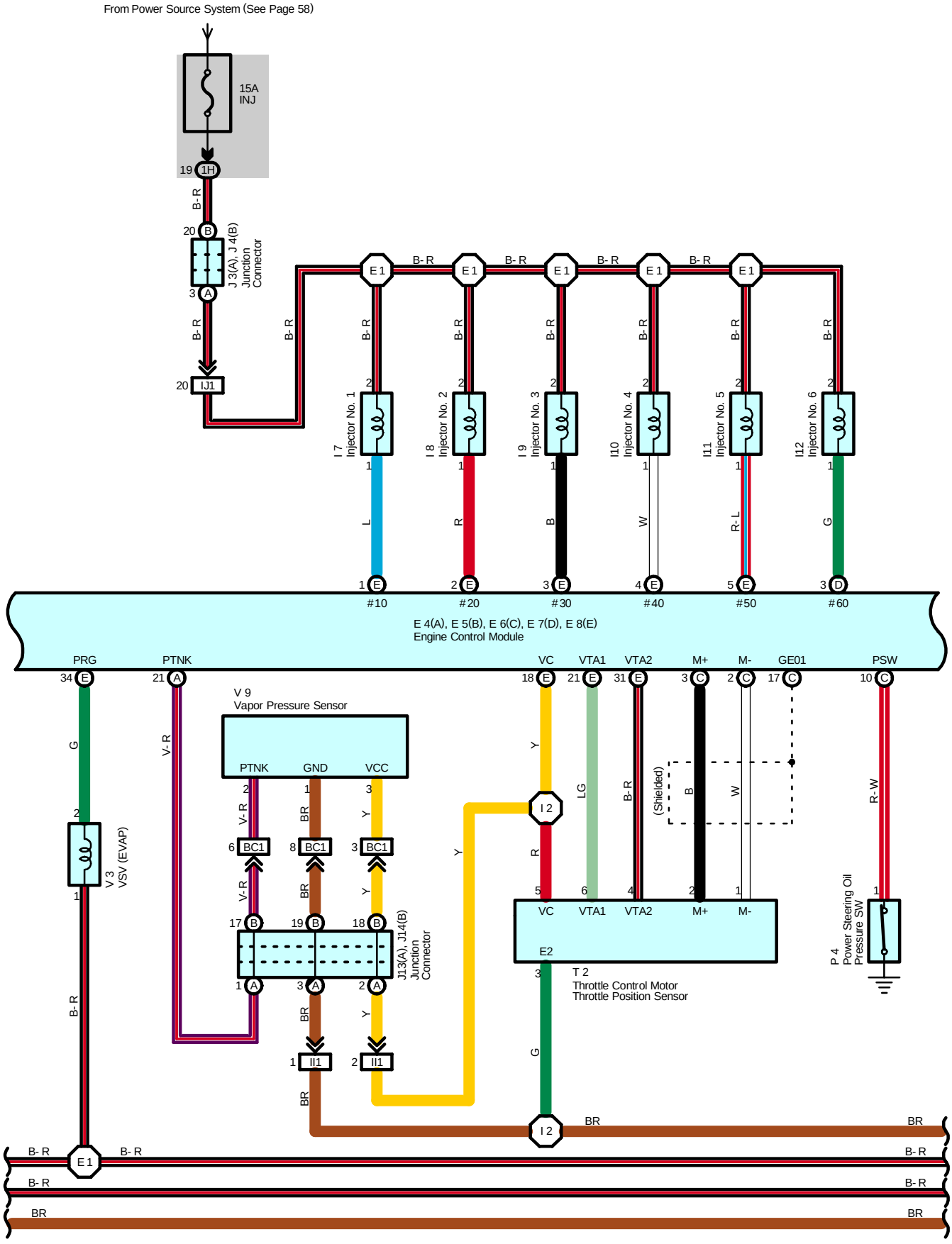
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IJ1	48	Engine Wire and Engine Room Main Wire (Right Kick Panel)

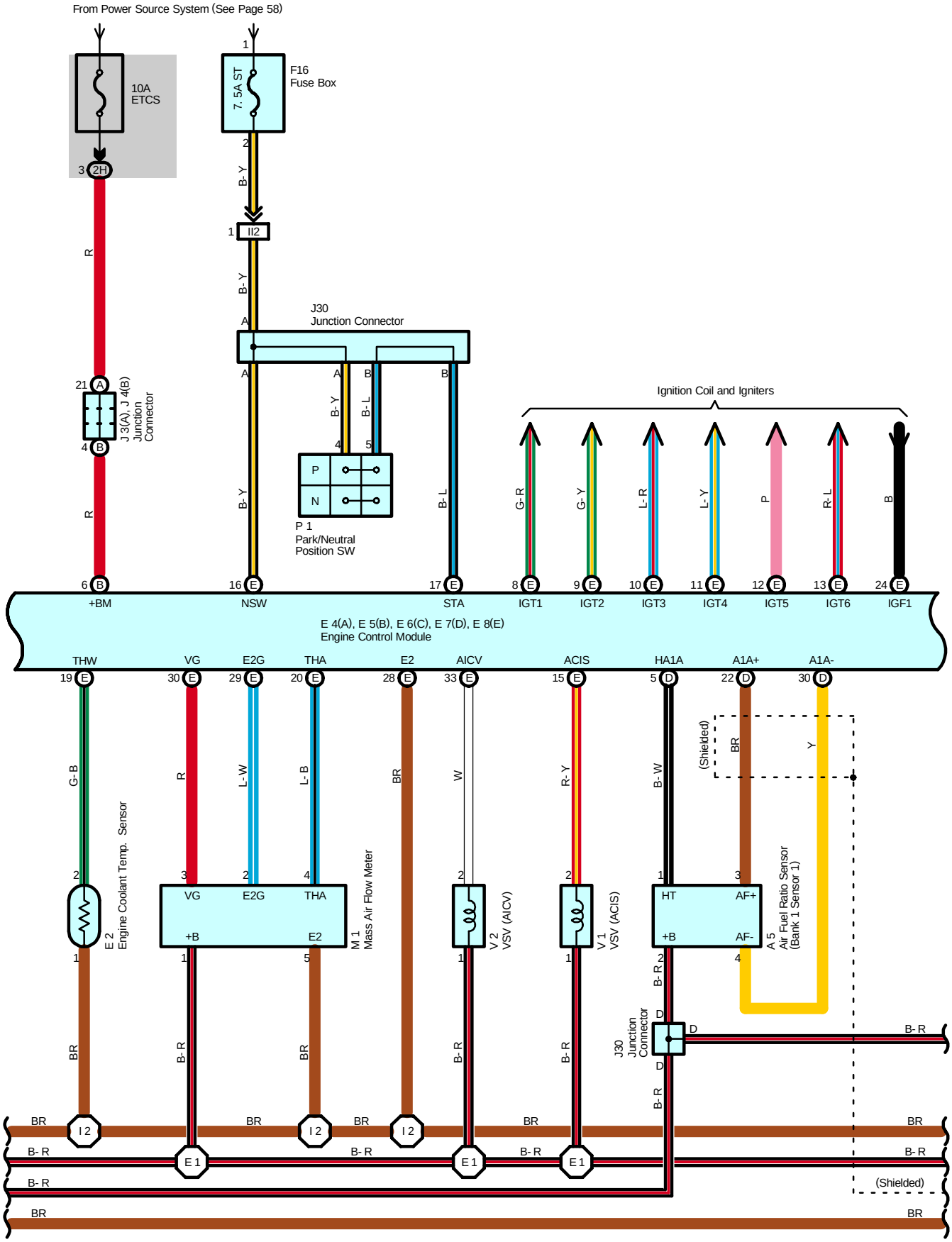
: Ground Points

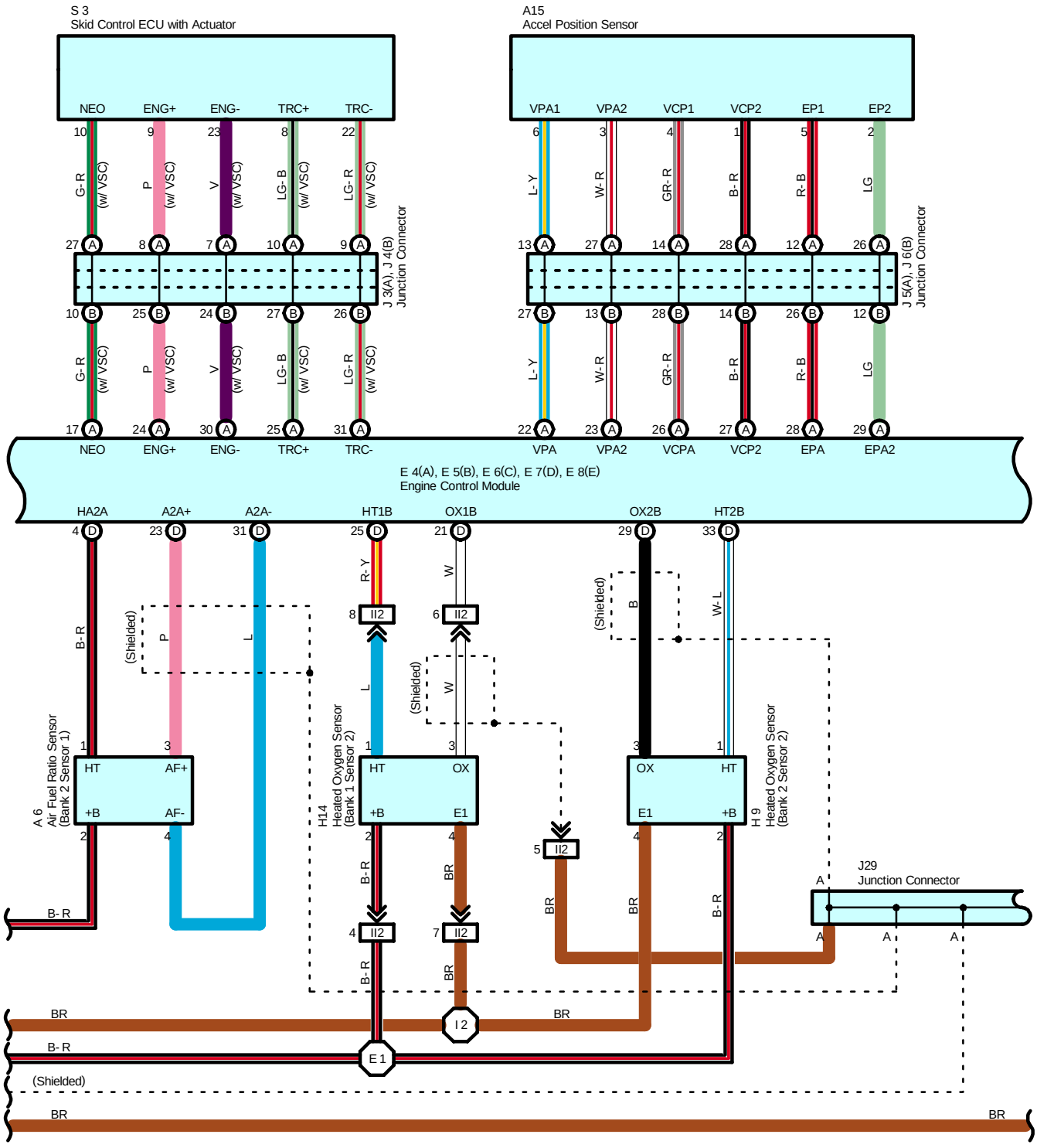
Code	See Page	Ground Points Location
IF	46	Instrument Panel Brace LH

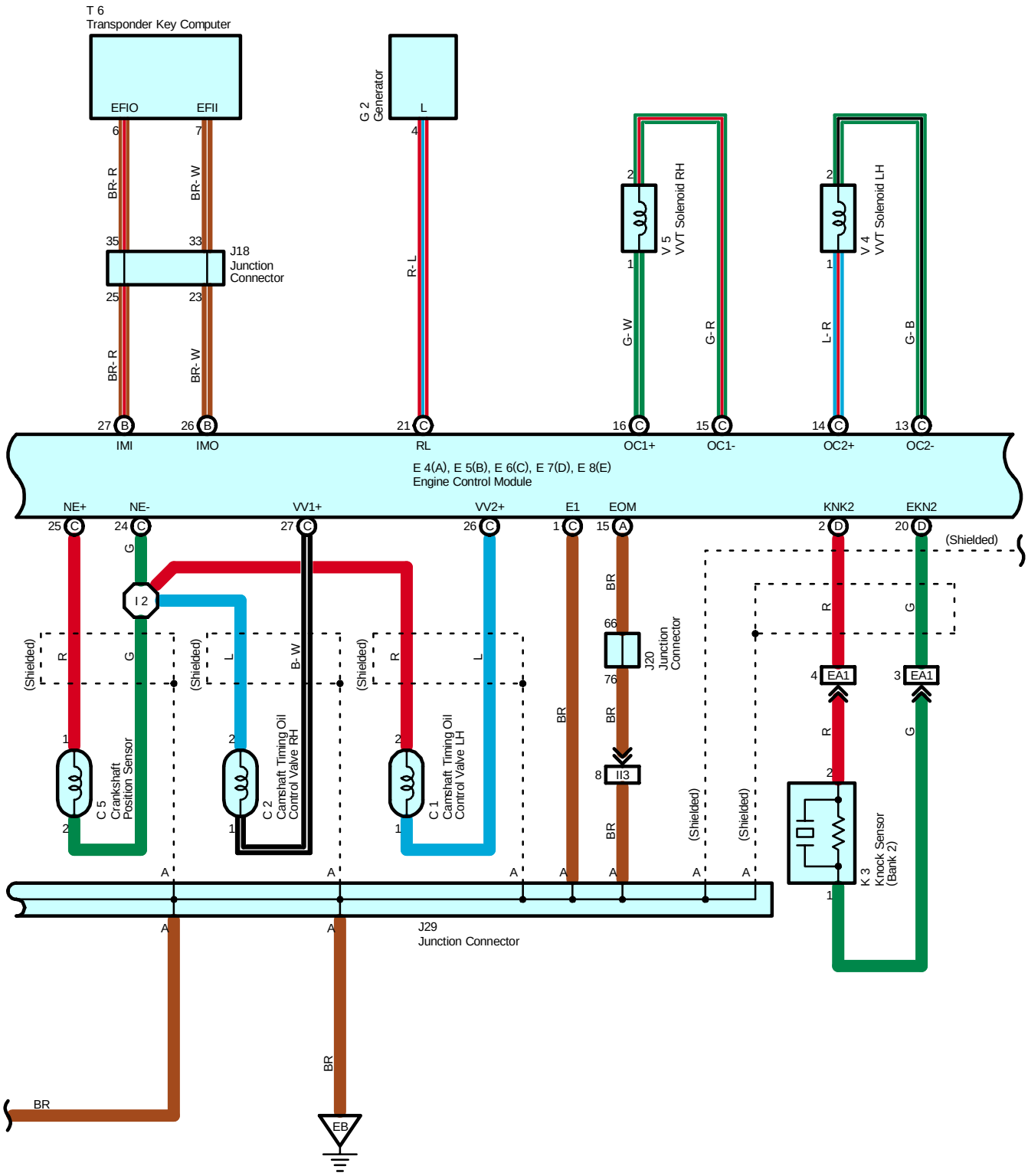

From Power Source System (See Page 58)
25A A/F
20A EFI NO. 1
7. 5A IGN
7. 5A OBD
A/F Relay
EFI Relay
C/OPN Relay
10A EFI NO. 2
Short Pin
D 1 Data Link Connector 3
BAT
CG
SG
WFSE
SIL
TC
J 1 Junction Connector
J20 Junction Connector
J18 Junction Connector
F20 Fuel Pump
EA
ED
BH
IG

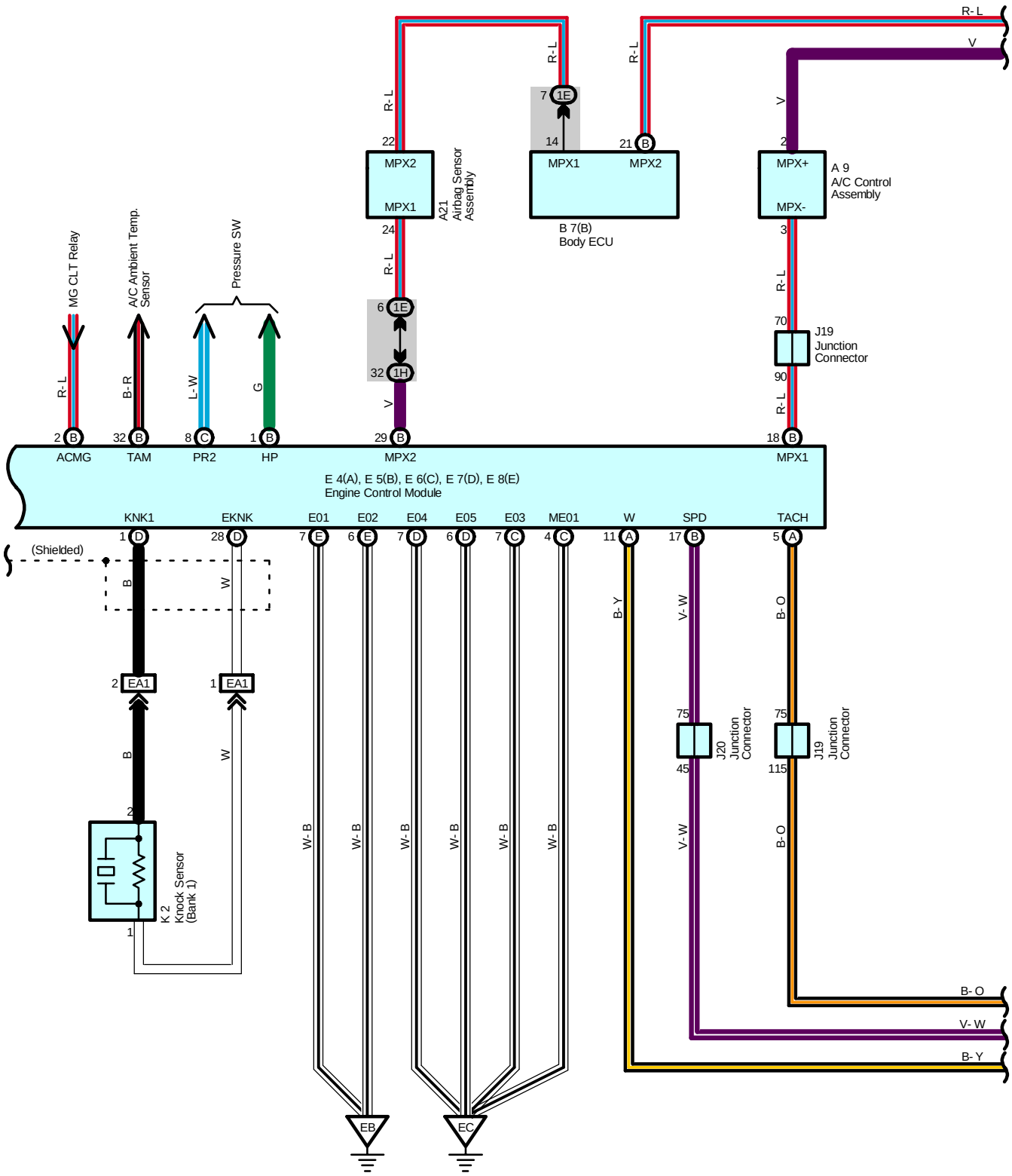

* 1 : w/ Dynamic Laser Cruise Control
* 2 : w/o Dynamic Laser Cruise Control
From Power Source System (See Page 58)
10A
STOP
16 1C
B- O
B- O
B- W
B- W
W
(*1)
(*2)
W
(*1)
18 B
J 5(A), J 6(B)
Junction
Connector
4 A
J15
Junction
Connector
A
A
3
2
4
1
S12
Stop Light SW
11 A
25 B
J 5(A), J 6(B)
Junction
Connector
25 A
8 B
J 3(A), J 4(B)
Junction
Connector
22
12
J18
Junction
Connector
Inverter Relay
A
A
J 2
Junction
Connector
2 A
20 A
19 B
3 B
J 3(A), J 4(B)
Junction
Connector
LG- R
G- W
G- W
LG- R
B- W
B- W
B- O
BR- R
LG- R
G- W
3 A
8 A
9 A
12 A
12 B
19 B
BATT
MREL
IGSW
ELS
ST1-
STP
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
TC
SIL
WFSE
+B
+B2
FC
CCV
20 A
18 A
19 A
1 A
2 A
10 A
27 E
P- B
W
W- L
B- R
B- R
V- G
L
4 II1
L
20 A
4 B
J13(A), J14(B)
Junction
Connector
19 A
3 B
J13(A), J14(B)
Junction
Connector
A
A
J21
Junction
Connector
A
B- R
B- R
B- R
11 BC1
B- R
2
V12
VSV (Canister Closed Valve)
1
L
L
L
9 BC1
9 B
7 B
J 3(A), J 4(B)
Junction
Connector
26 A
24 A
B- R
V- G
3 II1
B- R
E 1
B- R
P- B
W
W- L
B- R
B- R
V- G
B- R
B- R
B- R
B- R
BR
BR

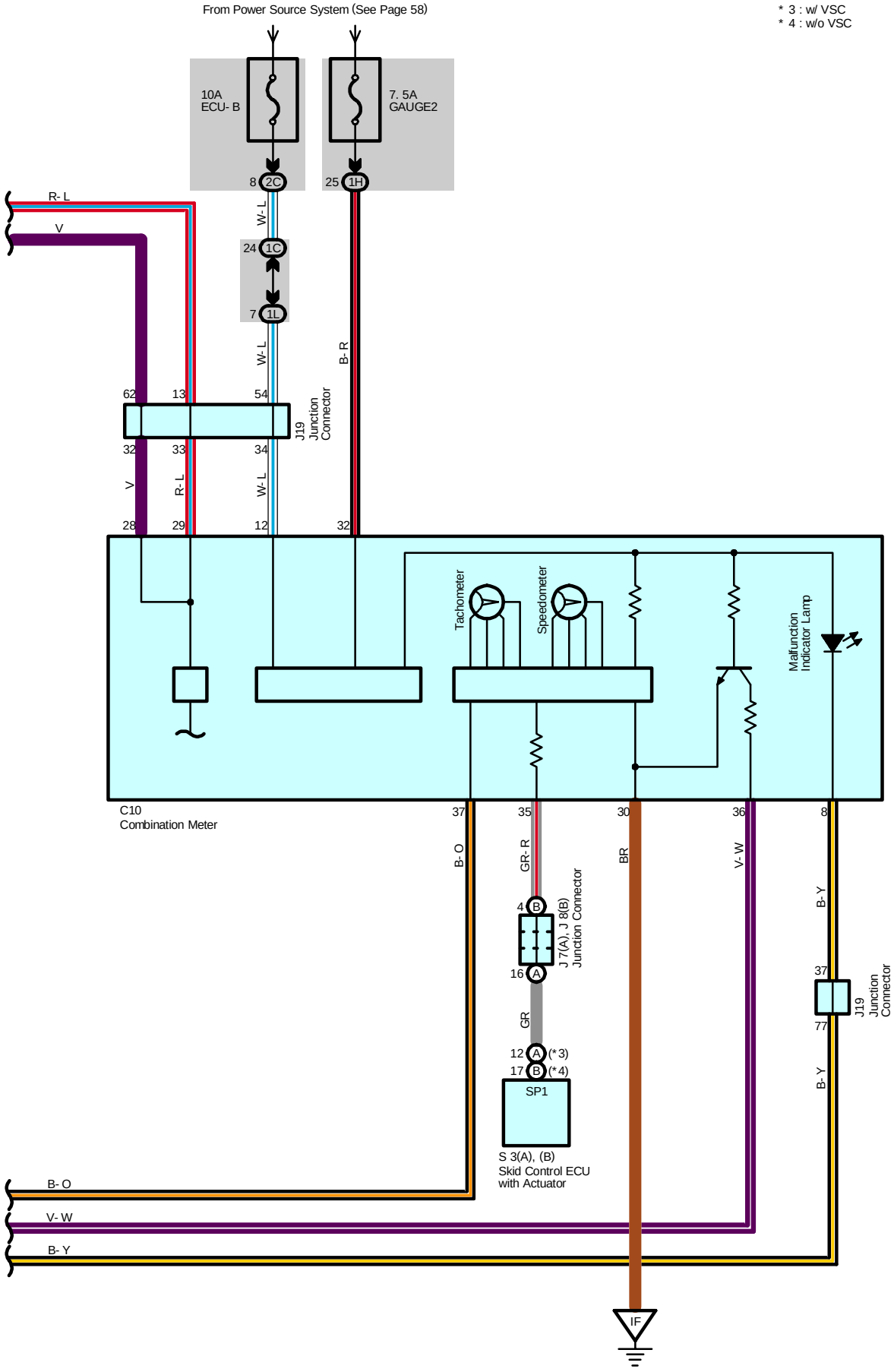

From Power Source System (See Page 58)
15A
INJ
19 1H
B-R
20 B
J 3(A), J 4(B)
Junction
Connector
3 A
B-R
20 IJ1
B-R
E 1
B-R
I 7
Injector No. 1
I 8
Injector No. 2
I 9
Injector No. 3
I10
Injector No. 4
I11
Injector No. 5
I12
Injector No. 6
L
R
B
W
R-L
G
#10
#20
#30
#40
#50
#60
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
PRG
PTNK
VC
VTA1
VTA2
M+
M-
GE01
PSW
V 9
Vapor Pressure Sensor
PTNK
GND
VCC
V-R
BR
Y
BC1
V 3
VSV (EVAP)
G
J13(A), J14(B)
Junction
Connector
I1
I 2
LG
(Shielded)
B
W
R-W
E2
T 2
Throttle Control Motor
Throttle Position Sensor
P 4
Power Steering Oil
Pressure SW
BR


From Power Source System (See Page 58)
10A
ETCS
3 2H
R
21 A
J 3(A), J 4(B)
Junction
Connector
4 B
R
6 B
+BM
1
7. 5A ST
F16
Fuse Box
2
B- Y
1 II2
B- Y
A
J30
Junction Connector
A
B- Y
16 E
NSW
A
B- L
4
5
P
N
P 1
Park/Neutral
Position SW
B
B- L
17 E
STA
Ignition Coil and Igniters
G- R
8 E
IGT1
G- Y
9 E
IGT2
L- R
10 E
IGT3
L- Y
11 E
IGT4
P
12 E
IGT5
R- L
13 E
IGT6
B
24 E
IGF1
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
THW
19 E
G- B
2
E 2
Engine Coolant Temp. Sensor
1
BR
VG
30 E
R
3
VG
+B
1
B- R
E2G
29 E
L- W
2
E2G
E2
5
BR
THA
20 E
L- B
4
THA
M 1
Mass Air Flow Meter
E2
28 E
BR
AICV
33 E
W
2
V 2
VSV (AICV)
1
B- R
ACIS
15 E
R- Y
2
V 1
VSV (ACIS)
1
B- R
HA1A
5 D
B- W
1
HT
+B
2
B- R
A1A+
22 D
(Shielded)
BR
3
AF+
AF-
4
A 5
Air Fuel Ratio Sensor
(Bank 1 Sensor 1)
A1A-
30 D
Y
J30
Junction
Connector
D
D
D
B- R
B- R
(Shielded)
I 2
I 2
I 2
E 1
E 1
E 1
BR
B- R


S 3
Skid Control ECU with Actuator
NEO
ENG+
ENG-
TRC+
TRC-
G- R (w/ VSC)
P (w/ VSC)
V (w/ VSC)
LG- B (w/ VSC)
LG- R (w/ VSC)
J 3(A), J 4(B)
Junction Connector
A15
Accel Position Sensor
VPA1
VPA2
VCP1
VCP2
EP1
EP2
L- Y
W- R
GR- R
B- R
R- B
LG
J 5(A), J 6(B)
Junction Connector
VPA
VPA2
VCPA
VCP2
EPA
EPA2
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
HA2A
A2A+
A2A-
HT1B
OX1B
OX2B
HT2B
B- R
P
L
R- Y
W
B
W- L
(Shielded)
A 6
Air Fuel Ratio Sensor
(Bank 2 Sensor 1)
HT
AF+
+B
AF-
H14
Heated Oxygen Sensor
(Bank 1 Sensor 2)
OX
E1
H 9
Heated Oxygen Sensor
(Bank 2 Sensor 2)
BR
I2
J29
Junction Connector
E 1
I 2


T 6
Transponder Key Computer
EFIO
EFII
6
7
BR- R
BR- W
35
33
J18
Junction
Connector
25
23
BR- R
BR- W
27 B
IMI
26 B
IMO
G 2
Generator
L
4
R- L
21 C
RL
2
1
V 5
VVT Solenoid RH
G- W
G- R
16 C
OC1+
15 C
OC1-
2
1
V 4
VVT Solenoid LH
L- R
G- B
14 C
OC2+
13 C
OC2-
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
NE+
NE-
VV1+
VV2+
E1
EOM
KNK2
EKN2
25 C
24 C
27 C
26 C
1 C
15 A
2 D
20 D
(Shielded)
G
I 2
R
G
L
B- W
L
BR
66
J20
Junction
Connector
76
BR
BR
8
II3
BR
R
G
4
EA1
3
EA1
R
G
1
C 5
Crankshaft
Position Sensor
2
2
C 2
Camshaft Timing Oil
Control Valve RH
1
2
C 1
Camshaft Timing Oil
Control Valve LH
1
2
K 3
Knock Sensor
(Bank 2)
1
A
J29
Junction Connector
BR
BR
EB


R- L
V
R- L
R- L
R- L
V
22
MPX2
MPX1
A21
Airbag Sensor
Assembly
7
1E
14
MPX1
21
B
MPX2
B 7(B)
Body ECU
2
MPX+
MPX-
A 9
A/C Control
Assembly
3
24
R- L
6
1E
32
1H
V
70
J19
Junction
Connector
90
R- L
MG CLT Relay
A/C Ambient Temp.
Sensor
Pressure SW
R- L
B- R
L- W
G
2
B
32
B
8
C
1
B
29
B
18
B
ACMG
TAM
PR2
HP
MPX2
MPX1
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
KNK1
EKNK
E01
E02
E04
E05
E03
ME01
W
SPD
TACH
1
D
28
D
7
E
6
E
7
D
6
D
7
C
4
C
11
A
17
B
5
A
(Shielded)
B
W
2
EA1
1
EA1
B
W
2
K 2
Knock Sensor
(Bank 1)
1
W- B
W- B
W- B
W- B
W- B
W- B
B- Y
V- W
B- O
75
45
J20
Junction
Connector
75
115
J19
Junction
Connector
V- W
B- O
B- O
V- W
B- Y
EB
EC


From Power Source System (See Page 58)
* 3 : w/ VSC
* 4 : w/o VSC
10A
ECU- B
7. 5A
GAUGE2
8 2C
25 1H
R- L
V
W- L
24 1C
7 1L
W- L
B- R
62
13
54
J19
Junction
Connector
32
33
34
V
R- L
W- L
28
29
12
32
Tachometer
Speedometer
Malfunction
Indicator Lamp
C10
Combination Meter
37
35
30
36
8
B- O
GR- R
BR
V- W
B- Y
4 B
16 A
J 7(A), J 8(B)
Junction Connector
GR
12 A (* 3)
17 B (* 4)
SP1
S 3(A), (B)
Skid Control ECU
with Actuator
37
77
J19
Junction
Connector
B- Y
B- O
V- W
B- Y
IF

System Outline

This system utilizes an engine control module and maintains overall control of the engine, transaxle and so on. An outline of the engine control is explained here.

1. Input Signals

(1) Engine coolant temp. signal circuit

The engine coolant temp. sensor detects the engine coolant temp. and has a built-in thermistor with a resistance which varies according to the water temp. is input into TERMINAL THW of the engine control module as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the mass air flow meter and detects the intake air temp., which is input as a control signal into TERMINAL THA of the engine control module.

(3) Oxygen sensor signal system

The oxygen density in the exhaust gases is detected and input as a control signal into TERMINAL OX1B and OX2B of the engine control module. To maintain stable detection performance by the heated oxygen sensor, a heater is used for warming the sensor. The heater is also controlled by the engine control module (HT1B and HT2B).

(4) RPM signal system

Camshaft position and crankshaft position are detected by the camshaft timing oil control valve LH, RH and crankshaft position sensor. The camshaft position is input as a control signal to TERMINAL VV1+ and VV2+ of the engine control module, and the engine RPM is input into TERMINAL NE+.

(5) Throttle signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINAL VTA1 of the engine control module.

(6) Vehicle speed signal circuit

The vehicle speed sensor, detects the vehicle speed and input to ABS speed sensor of the skid control ECU with actuator, from skid control ECU with actuator to TERMINAL SPD of the engine control module, Via combination meter.

(7) Park/Neutral position SW signal system

The Park/Neutral position SW detects whether the shift position is in neutral, parking or not, and inputs a control signal into TERMINAL STA of the engine control module.

(8) Battery signal circuit

Voltage is always supplies to TERMINAL BATT of the engine control module.

If you turn on the ignition SW, the current goes from TERMINAL MREL of the engine control module to the EFI main relay and put on the relay, and the voltage related to the engine control module operation is supplied to TERMINAL +B and +B2 of the engine control module through the EFI relay.

(9) Intake air volume signal circuit

Intake air volume is detected by the mass air flow meter and a signal is input into TERMINAL VG of the engine control module as a control signal.

(10) NSW signal circuit

To confirm whether the engine is cranking, the voltage applied to the starter motor during cranking is detected and the signal is input into TERMINAL NSW of the engine control module as a control signal.

(11) Engine knock signal circuit

Engine knocking is detected by the knock sensor (Bank 1) and (Bank 2), then the signals are input into TERMINALS KNK1 and KNK2 of the engine control module as a control signal.

(12) Air fuel ratio signal system

The air fuel ratio is detected and input as a control signal into TERMINALS A1A+, A2A+ of the engine control module.

2. Control System

* SFI system
  The SFI system monitors the engine condition through the signals, which are input from each sensor (Input signals (1) to (11)). The best fuel injection volume is decided based on this data and the program memorized by the engine control module, and the control signal is output to TERMINALS #10, #20, #30, #40, #50 and #60 of the engine control module to operate the injector (Inject the fuel). The SFI system produces control of fuel injection operation by the engine control module in response to the driving conditions.
* ESA system
  The ESA system monitors the engine condition through the signals, which are input to the engine control module from each sensor (Input signals from 1, 3, 4, 11). The best ignition timing is decided according to this data and the memorized data in the engine control module and the control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5 and IGT6. This signal controls the igniter to provide the best ignition timing for the driving conditions.
* Heated oxygen sensor heater control system
  The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emissions is low), and warms up the heated oxygen sensor to improve detection performance of the sensor.
  The engine control module evaluates the signals from each sensor (Input signals from 1, 4, 8, 9), current is output to TERMINAL HT1B and HT2B controlling the heater.
* ACIS
  ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages for increased engine output in all ranges from low to high speeds.
  The engine control module judges the engine speed by the signals ((4), (5)) from each sensor and outputs signals to the TERMINAL ACIS to control the VSV (ACIS).

3. Diagnosis System

With the diagnosis system, when there is a malfunction in the engine control module signal system, the malfunctioning system is recorded in the memory.

4. Fail-Safe System

When a malfunction occurs in any systems, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail-safe system either controls the system by using data (Standard values) recorded in the engine control module memory or else stops the engine.

Service Hints

E2 Engine Coolant Temp. Sensor

1-2 : Approx. 15.04 kΩ (-20˚C, -4˚F)
Approx. 2.45 kΩ (20˚C, 68˚F)
Approx. 0.318 kΩ (80˚C, 176˚F)
Approx. 0.142 kΩ (110˚C, 230˚F)

E4 (A), E5 (B), E6 (C), E7 (D), E8 (E) Engine Control Module

Voltage at engine control module wiring connector

BATT-E1 : Always 9.0-14.0 volts
+B, +B2-E1 : 9.0-14.0 volts (Ignition SW at ON position)
VC-E2 : Always 4.5-5.5 volts (Ignition SW at ON position)
VTA1-E2 : 0.3-0.8 volts (Ignition SW on and throttle valve fully closed)
3.2-4.9 volts (Ignition SW on and throttle valve fully open)
VG-E2G : 1.1-1.5 volts (Engine idling and A/C SW off)
THA-E2 : 0.5-3.4 volts (Engine idling and intake air temp. 20˚C, 68˚F)
THW-E2 : 0.2-1.0 volts (Engine idling and coolant temp. 80˚C, 176˚F)
IGF1-E1 : 4.5-5.5 volts (Ignition SW at ON position)
Pulse generation (Engine idling)
NE+ -NE- : Pulse generation (Engine idling)
SIL-E1 : Pulse generation (During transmission)
TACH-E1 : Pulse generation (Engine idling)
STA-E1 : 6.0 volts or more (Engine cranking)
FC-E1 : 9.0-14.0 volts (Ignition SW at ON position)
0-3.0 volts (Engine idling)
SPD-E1 : Pulse generation (Ignition SW on and rotate driving wheel slowly)
W-E1 : Below 3.0 volts (Ignition SW at ON position)
ACIS-E01 : 9.0-14.0 volts (Ignition SW at ON position)
PRG-E01 : 9.0-14.0 volts (Ignition SW at ON position)
TC-E1 : 9.0-14.0 volts (Ignition SW at ON position)
PTNK-E1 : 3.0-3.6 volts (Ignition SW at ON position)
1.3-2.1 volts (Ignition SW on and apply vacuum 2.0 kpa)
OX1B, OX2B-E1 : Pulse generation (Maintain engine speed at 2500 rpm for two minutes after warming up)
HT1B, HT2B-E03 : 9.0-14.0 volts (Ignition SW at ON position)
0-3.0 volts (Engine idling)
KNK1, KNK2-E1 : Pulse generation (Engine idling)
IGT1, IGT2, IGT3, IGT4, IGT5, IGT6-E1 : Pulse generation (Engine idling)
#10, #20, #30, #40, #50, #60-E01 : 9.0-14.0 volts (Ignition SW at ON position)
Pulse generation (Engine idling)

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A5	32	H14	35	J21	36
A6	32	I7	33	J29	36
A9	34	I8	33	J30	36
A15	34	I9	33	K2	33
A21	34	I10	33	K3	33
B7 B	34	I11	33	M1	33
C1	32	I12	33	P1	33
C2	32	J1	33	P4	33
C5	32	J2	33	S3 A	33
C10	35	J3 A	36	S3 B	33
D1	35	J4 B	36	S12	37
E2	32	J5 A	36	T2	33
E4 A	35	J6 B	36	T6	37
E5 B	35	J7 A	36	V1	33
E6 C	35	J8 B	36	V2	33
E7 D	35	J13 A	36	V3	33
E8 E	35	J14 B	36	V4	33
F16	35	J15	36	V5	33
F20	38	J18	36	V9	41
G2	32	J19	36	V12	41
H9	32	J20	36		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
6	25	R/B No.6 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
2A	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2C		
2E		
2F		
2H		

: Connector Joining Wire Harness and Wire Harness

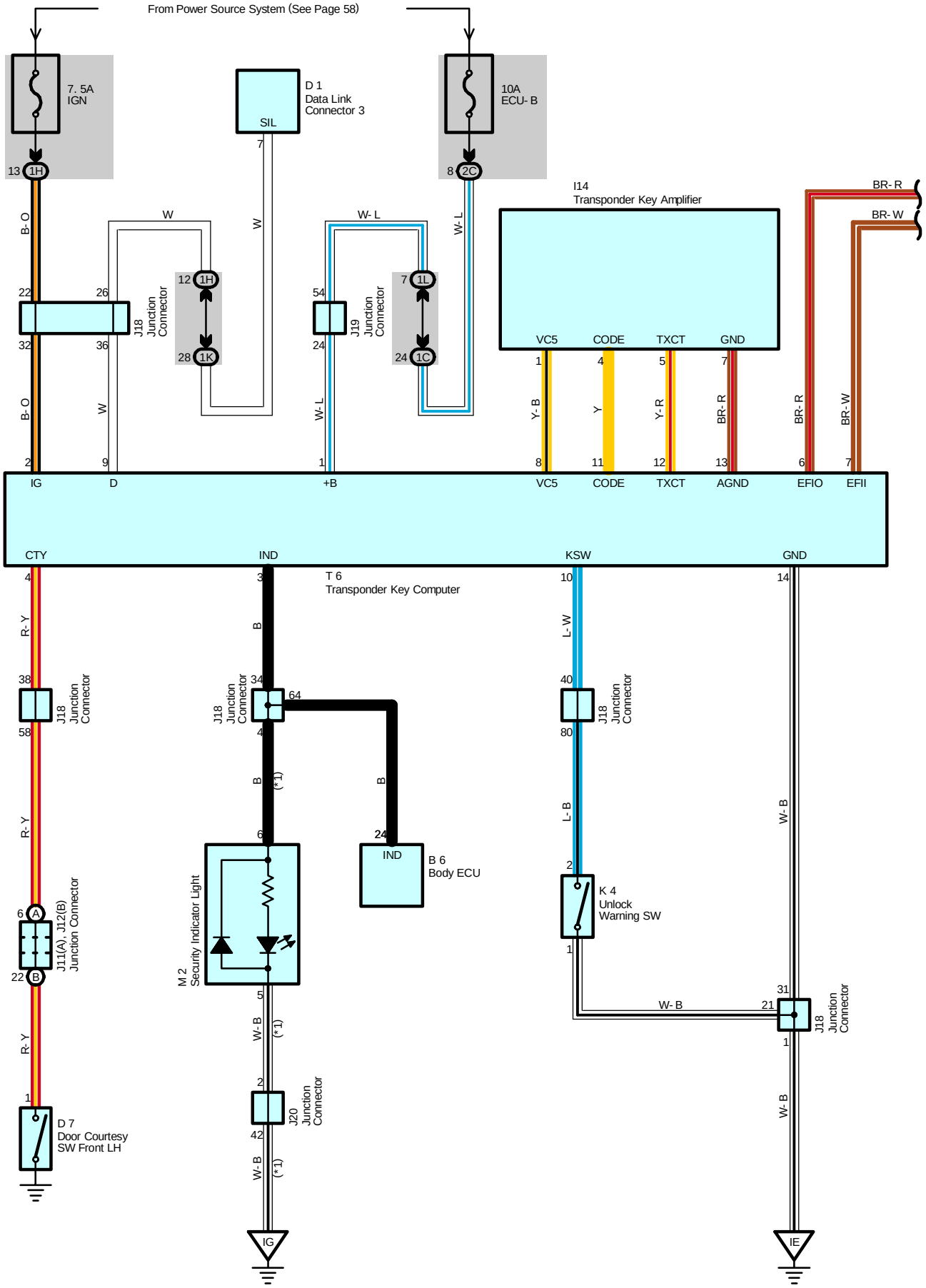
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	44	Engine Wire and Sensor Wire (Near the Cylinder Head of the Left Bank)
IB1	46	Engine Room Main Wire and Floor No.1 Wire (Left Cowl Side Panel)
II1	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
II2		
II3		
IJ1	48	Engine Wire and Engine Room Main Wire (Right Kick Panel)
BC1	50	Fuel Gauge Wire and Floor No.1 Wire (Near the Fuel Tank)

 : **Ground Points**

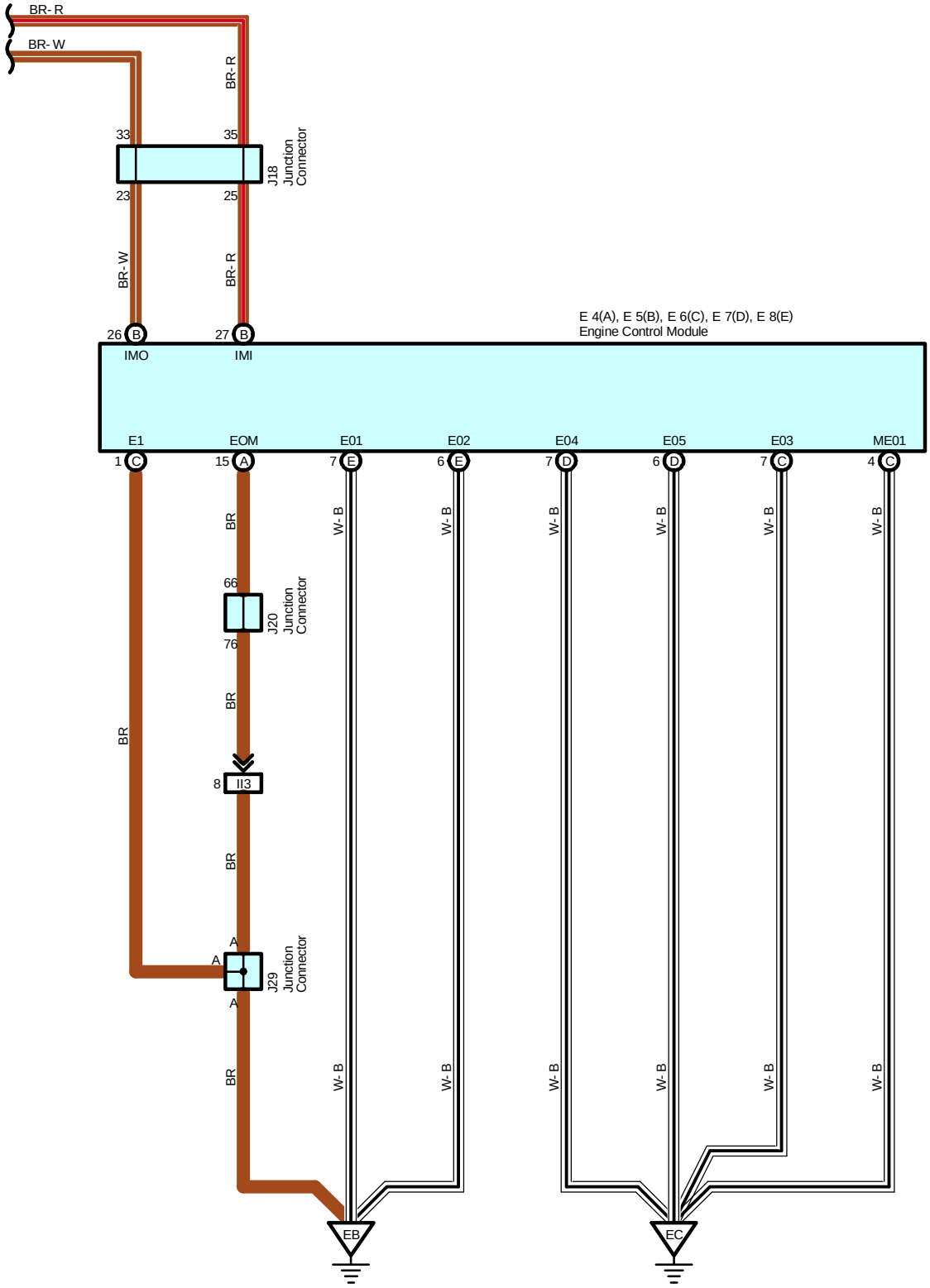
Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
EB	44	Rear Bank of Right Cylinder Head
EC	44	Rear Bank of Left Cylinder Head
ED	44	Front Side of the Left Fender Apron
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel
BH	50	Under the Left Center Pillar

 : **Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	44	Engine Wire	I2	48	Engine Wire


From Power Source System (See Page 58)
7. 5A
IGN
13 1H
B- O
22
32
B- O
2
IG
W
26
36
W
9
D
J18
Junction
Connector
12 1H
28 1K
W
SIL
7
D 1
Data Link
Connector 3
W- L
54
24
W- L
1
+B
J19
Junction
Connector
7 1L
24 1C
W- L
10A
ECU- B
8 2C
I14
Transponder Key Amplifier
VC5
CODE
TXCT
GND
1
4
5
7
Y- B
Y
Y- R
BR- R
8
11
12
13
VC5
CODE
TXCT
AGND
BR- R
BR- W
6
7
EFIO
EFII
CTY
IND
KSW
GND
4
R- Y
38
58
J18
Junction
Connector
R- Y
6 A
22 B
J11(A), J12(B)
Junction Connector
R- Y
1
D 7
Door Courtesy
SW Front LH
3
B
34
64
4
B
(*1)
B
6
24
IND
B 6
Body ECU
M 2
Security Indicator Light
5
W- B
(*1)
2
42
J20
Junction
Connector
W- B
(*1)
IG
T 6
Transponder Key Computer
10
L- W
40
80
J18
Junction
Connector
L- B
2
K 4
Unlock
Warning SW
1
14
W- B
31
21
W- B
J18
Junction
Connector
1
W- B
IE

* 1 : w/ Theft Deterrent System



Engine Immobilizer System

Service Hints

T6 Transponder Key Computer

1-Ground : Always approx. 12 volts
2-Ground : Approx. 12 volts with the ignition SW at ON position
14-Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code	See Page
B6		34	E7	D	35	J19	36
D1		35	E8	E	35	J20	36
D7		38	I14		35	J29	36
E4	A	35	J11	A	36	K4	36
E5	B	35	J12	B	36	M2	36
E6	C	35	J18		36	T6	37

: Junction Block and Wire Harness Connector

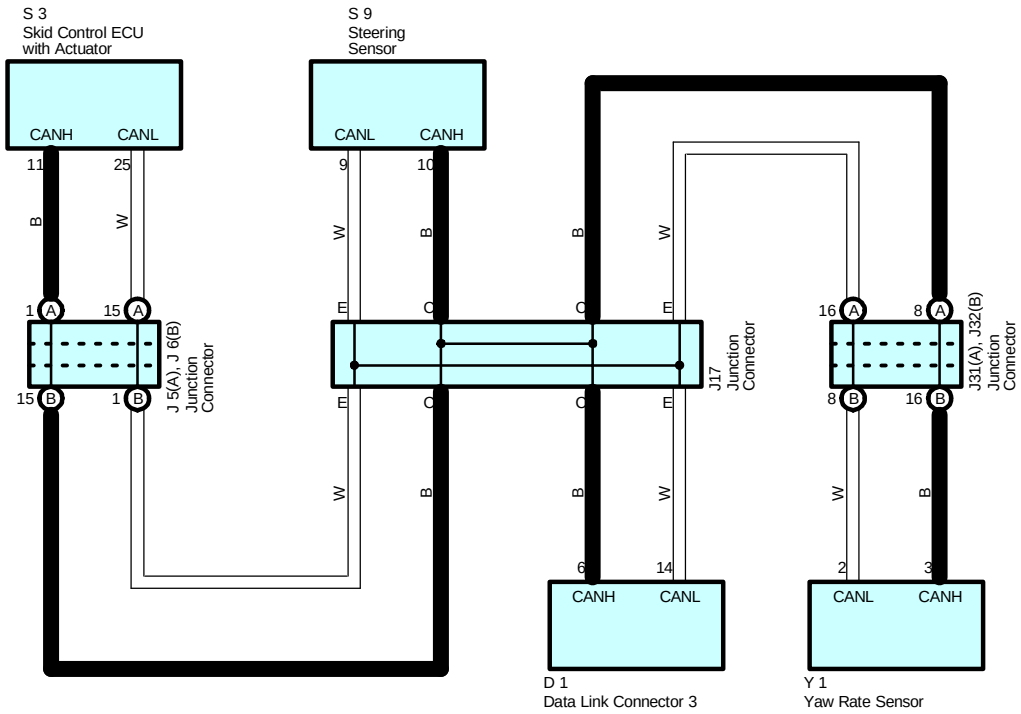
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K	27	
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EB	44	Rear Bank of Right Cylinder Head
EC	44	Rear Bank of Left Cylinder Head
IE	46	Left Kick Panel
IG	46	Right Kick Panel


S 3
Skid Control ECU
with Actuator
CANH
CANL
11
25
B
W
1
A
15
A
15
B
1
B
J 5(A), J 6(B)
Junction
Connector
S 9
Steering
Sensor
CANL
CANH
9
10
W
B
E
C
E
C
W
B
J17
Junction
Connector
B
W
C
E
C
E
B
W
6
14
CANH
CANL
D 1
Data Link Connector 3
16
A
8
A
8
B
16
B
J31(A), J32(B)
Junction
Connector
W
B
2
3
CANL
CANH
Y 1
Yaw Rate Sensor

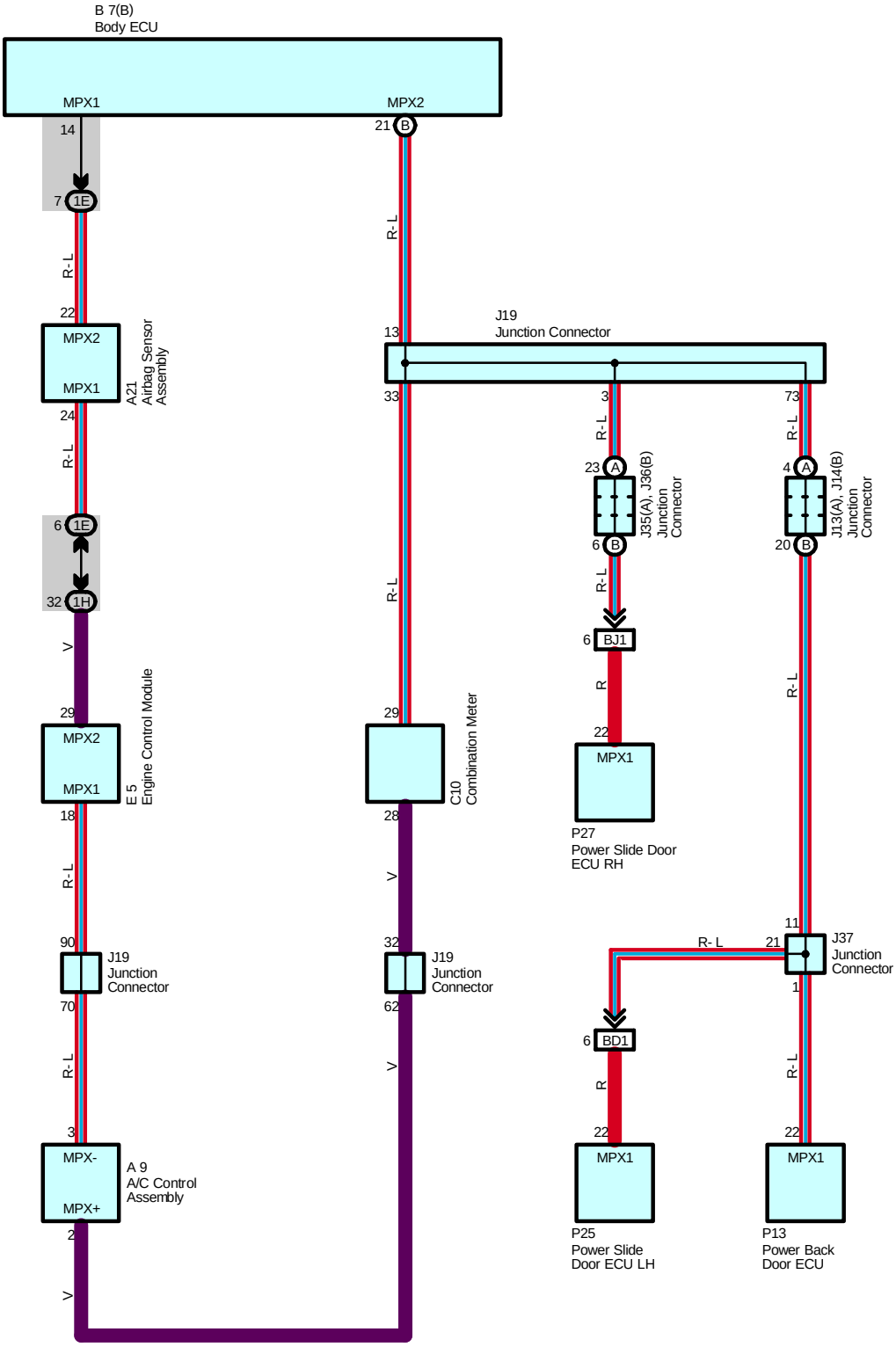
System Outline

Multiplex communication system (CAN) uses a serial communication protocol and communicates with a differential voltage. In this network system, TERMINALS CANH and CANL are used for communication between the ECUs and sensors, and excellent data communication speed and communication error detecting facility are provided. This system is working for the following systems:

* Dynamic Laser Cruise Control
* VSC

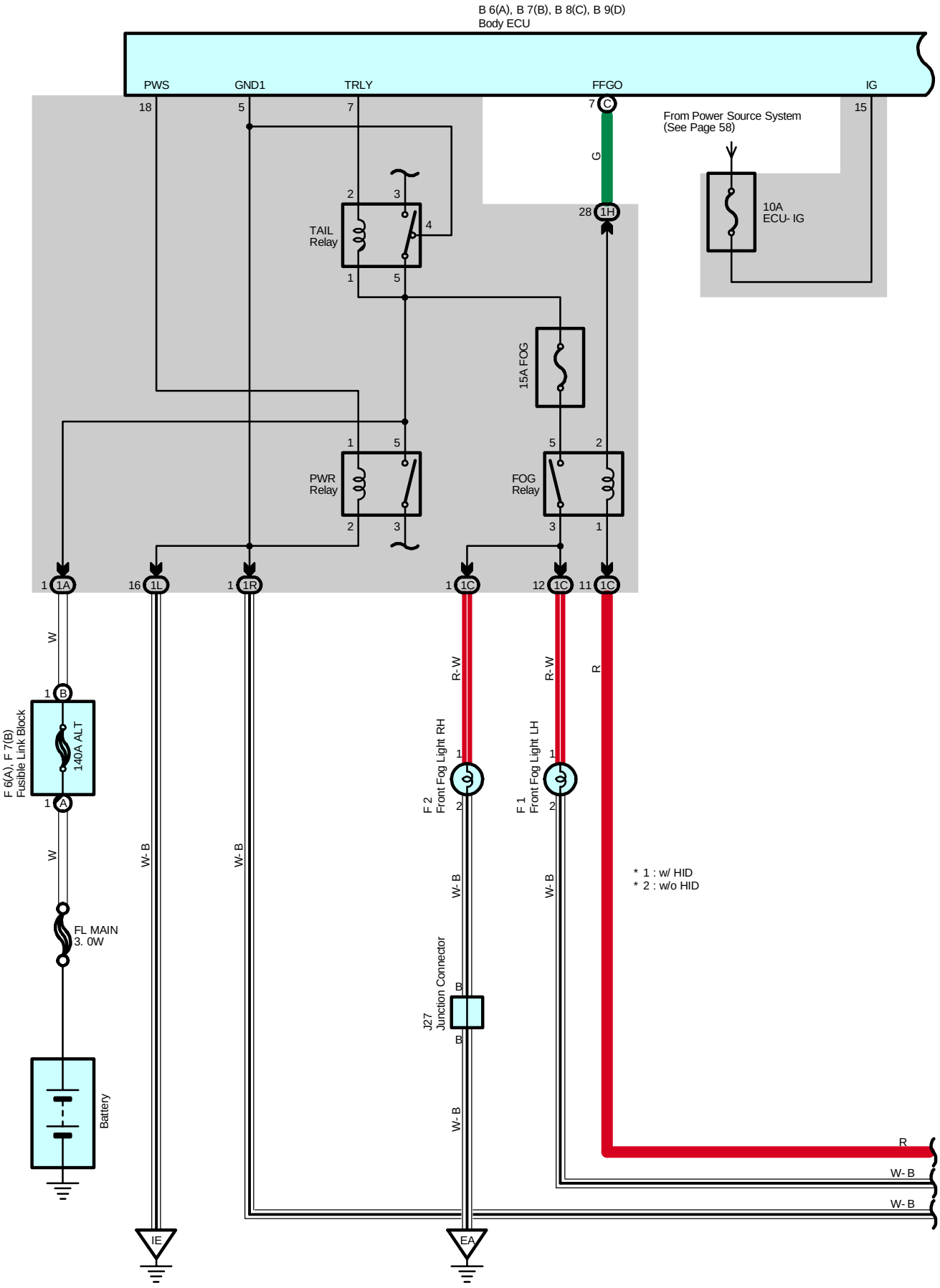
○ : Parts Location

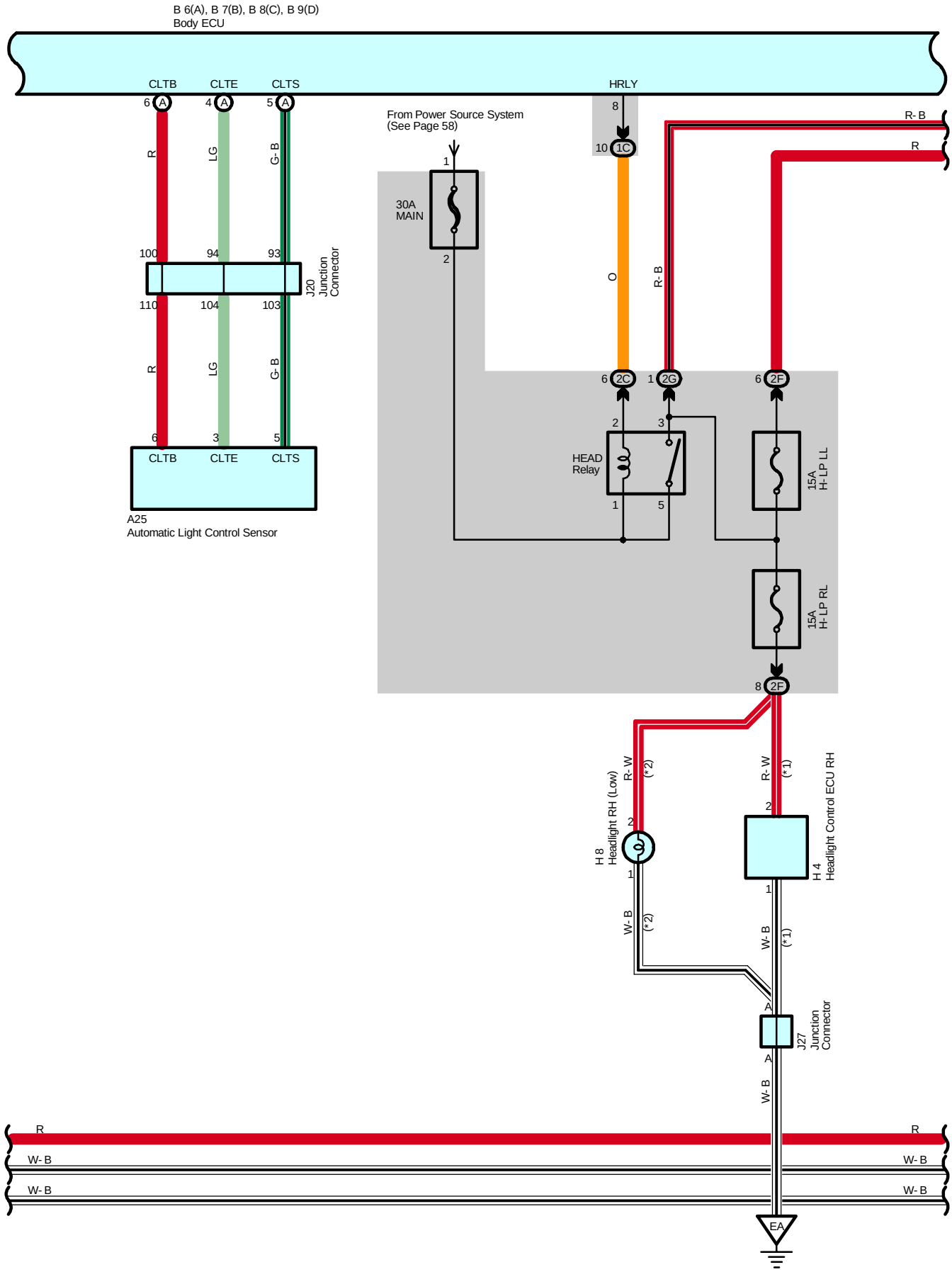
Code		See Page	Code		See Page	Code	See Page
D1		35	J17		36	S3	33
J5	A	36	J31	A	36	S9	37
J6	B	36	J32	B	36	Y1	41

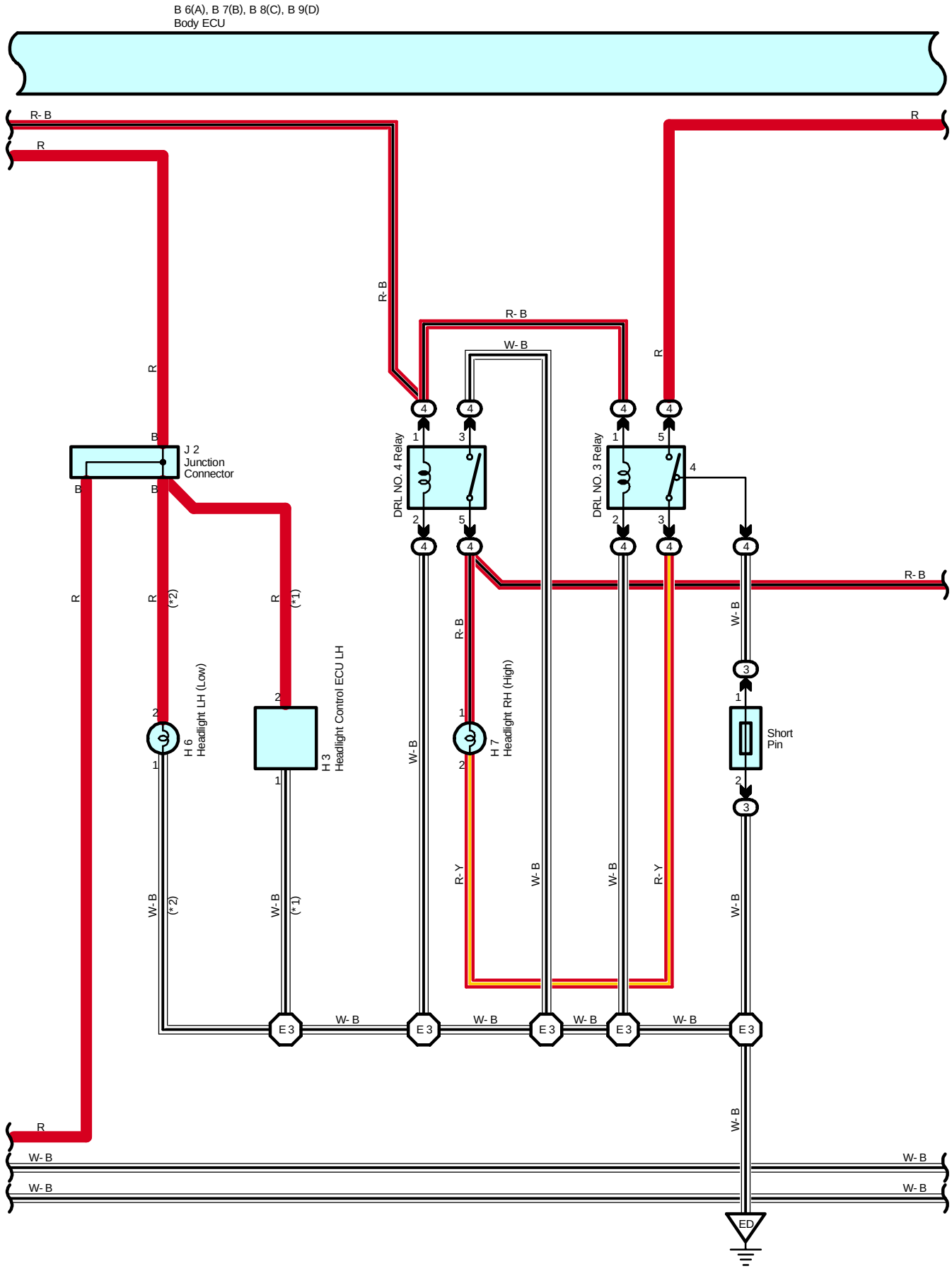

B 7(B)
Body ECU
MPX1
MPX2
14
21
B
7
1E
R-L
22
MPX2
MPX1
A21
Airbag Sensor
Assembly
24
6
1E
32
1H
V
29
MPX2
MPX1
E 5
Engine Control Module
18
90
J19
Junction
Connector
70
3
MPX-
MPX+
A 9
A/C Control
Assembly
2
13
J19
Junction Connector
33
29
C10
Combination Meter
28
32
J19
Junction
Connector
62
3
23
A
6
B
J35(A), J36(B)
Junction
Connector
BJ1
22
MPX1
P27
Power Slide Door
ECU RH
73
4
20
J13(A), J14(B)
Junction
Connector
11
21
J37
Junction
Connector
1
BD1
P25
Power Slide
Door ECU LH
P13
Power Back
Door ECU

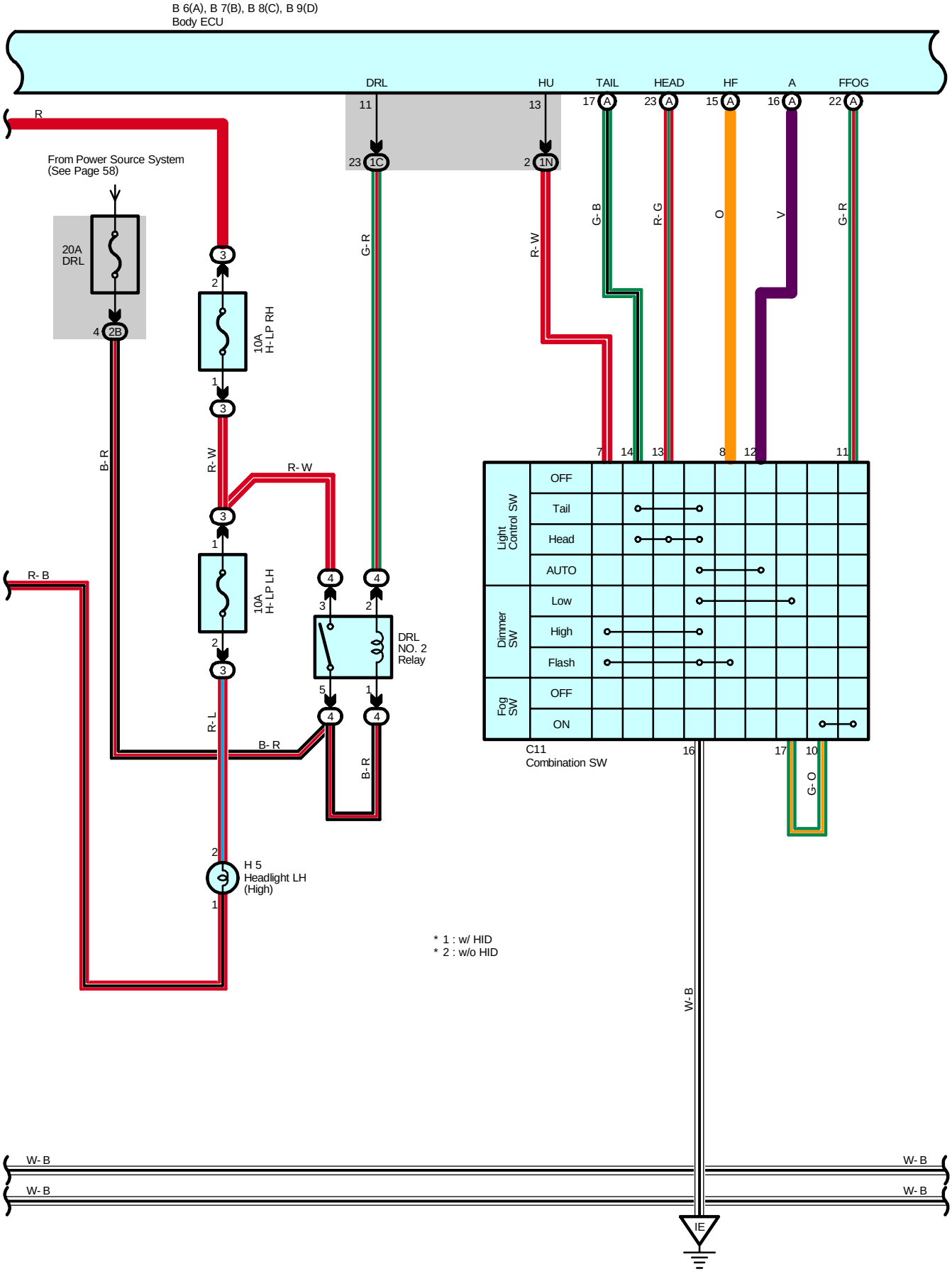
Multiplex Communication System (BEAN) Includes Following Systems

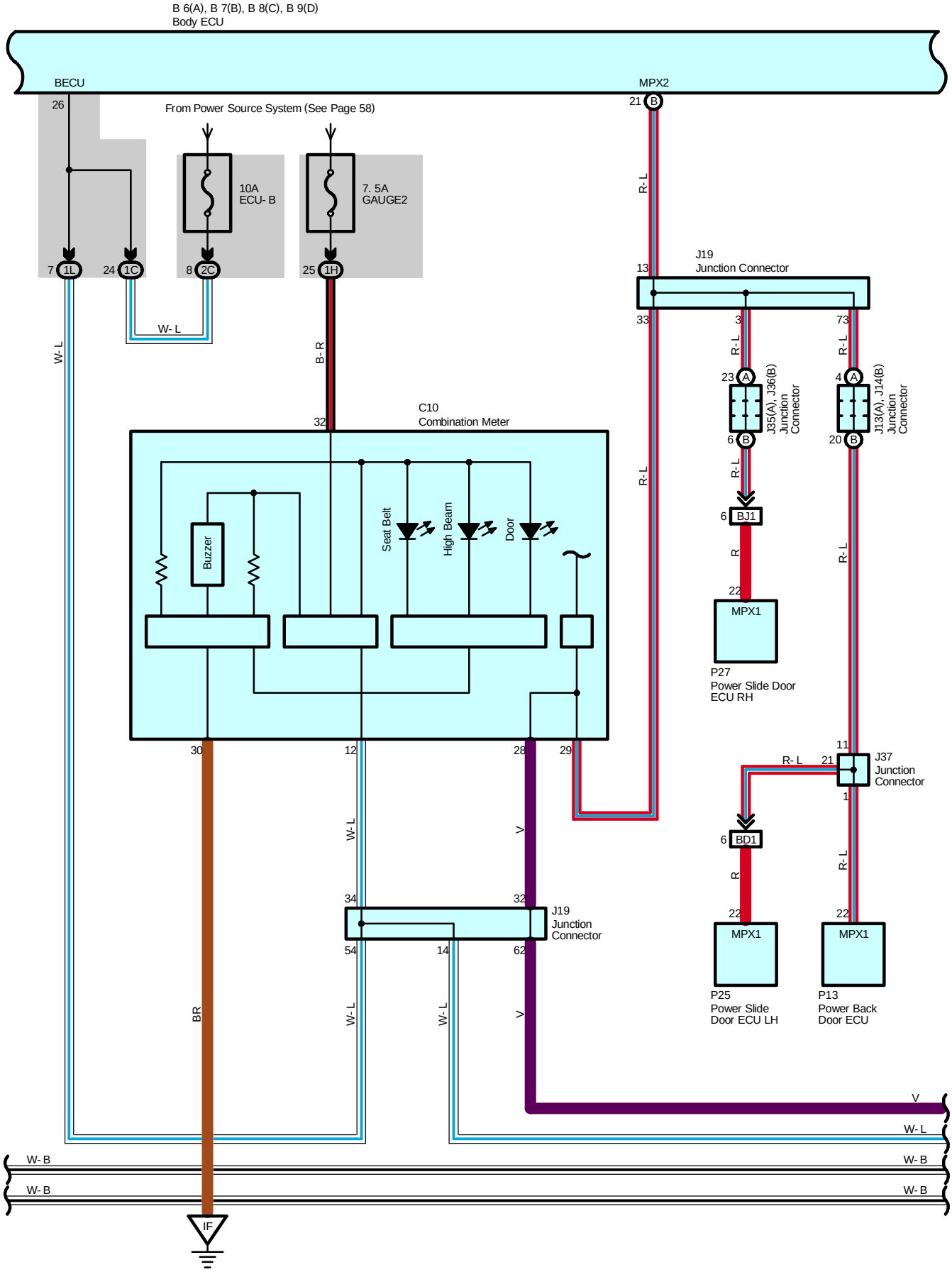
- **Automatic Light Control**
- **Back Door Opener (w/o Power Back Door)**
- **Door Lock Control**
- **Fog Light**
- **Headlight**
- **Interior Light**
- **Key Reminder**
- **Light Auto Turn Off System**
- **Seat Belt Warning**
- **Theft Deterrent**
- **Wireless Door Lock Control**

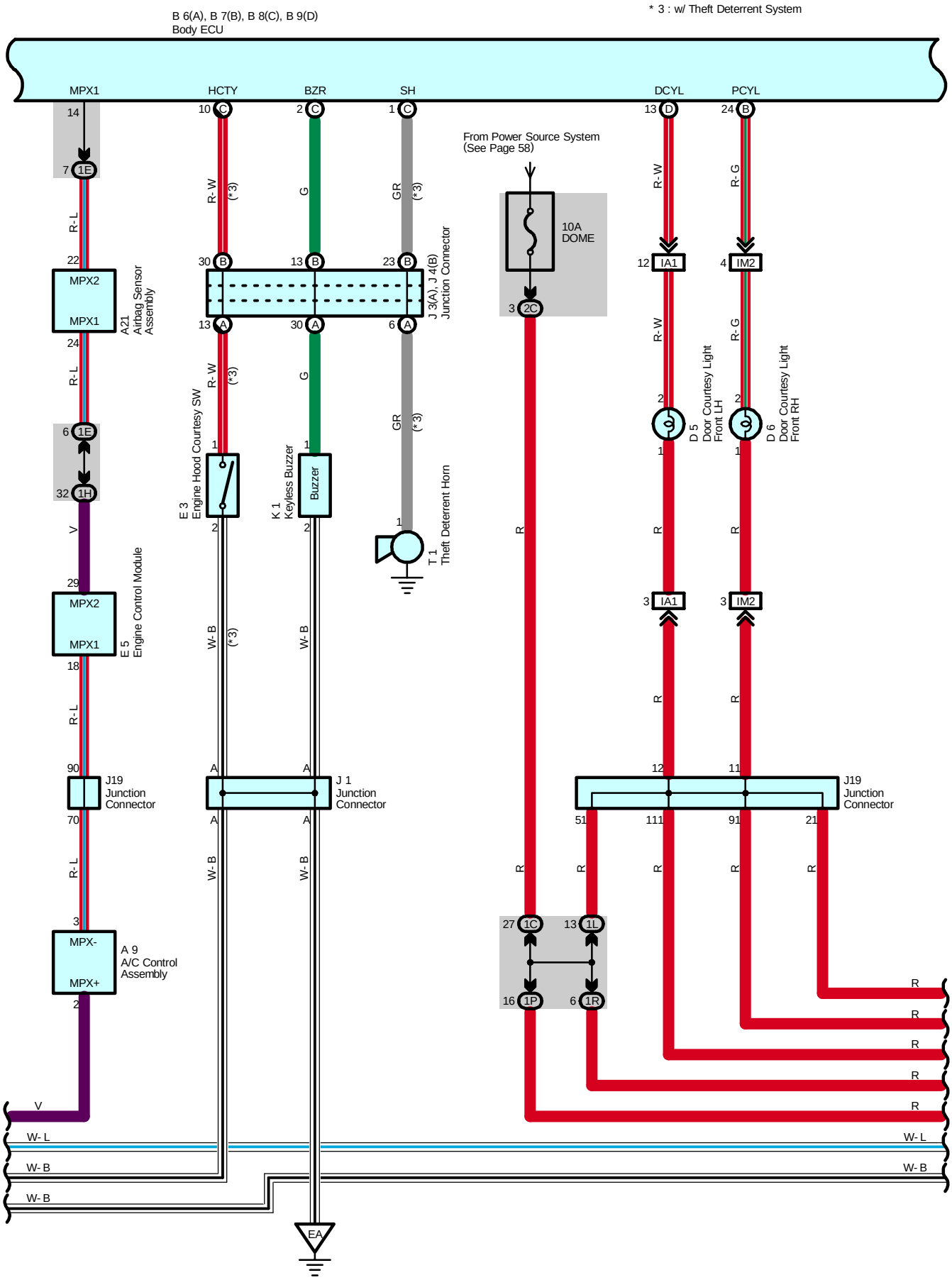

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
PWS
GND1
TRLY
FFGO
IG
18
5
7
7 C
15
From Power Source System
(See Page 58)
G
28 1H
10A
ECU- IG
TAIL
Relay
15A FOG
PWR
Relay
FOG
Relay
1A
16 1L
1 1R
1 1C
12 1C
11 1C
W
R- W
R
F 6(A), F 7(B)
Fusible Link Block
1 B
140A ALT
1 A
FL MAIN
3. 0W
W- B
F 2
Front Fog Light RH
F 1
Front Fog Light LH
J27
Junction Connector
B
Battery
IE
EA
* 1 : w/ HID
* 2 : w/o HID

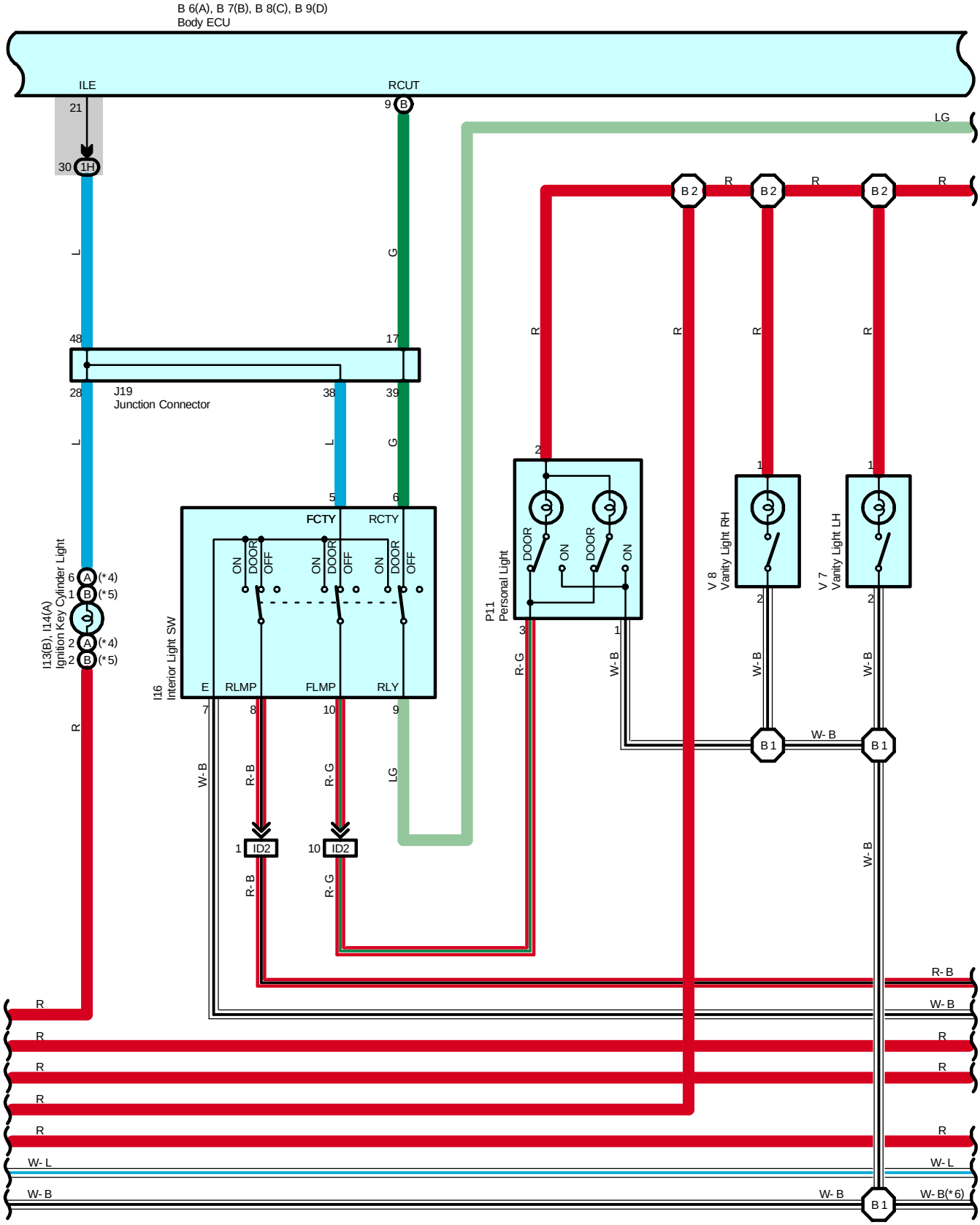

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
CLTB
CLTE
CLTS
HRLY
From Power Source System
(See Page 58)
30A
MAIN
HEAD
Relay
15A
H-LP LL
15A
H-LP RL
J20
Junction
Connector
A25
Automatic Light Control Sensor
H 8
Headlight RH (Low)
H 4
Headlight Control ECU RH
J27
Junction
Connector
EA
R
R-B
O
LG
G-B
R-W
W-B
(*1)
(*2)

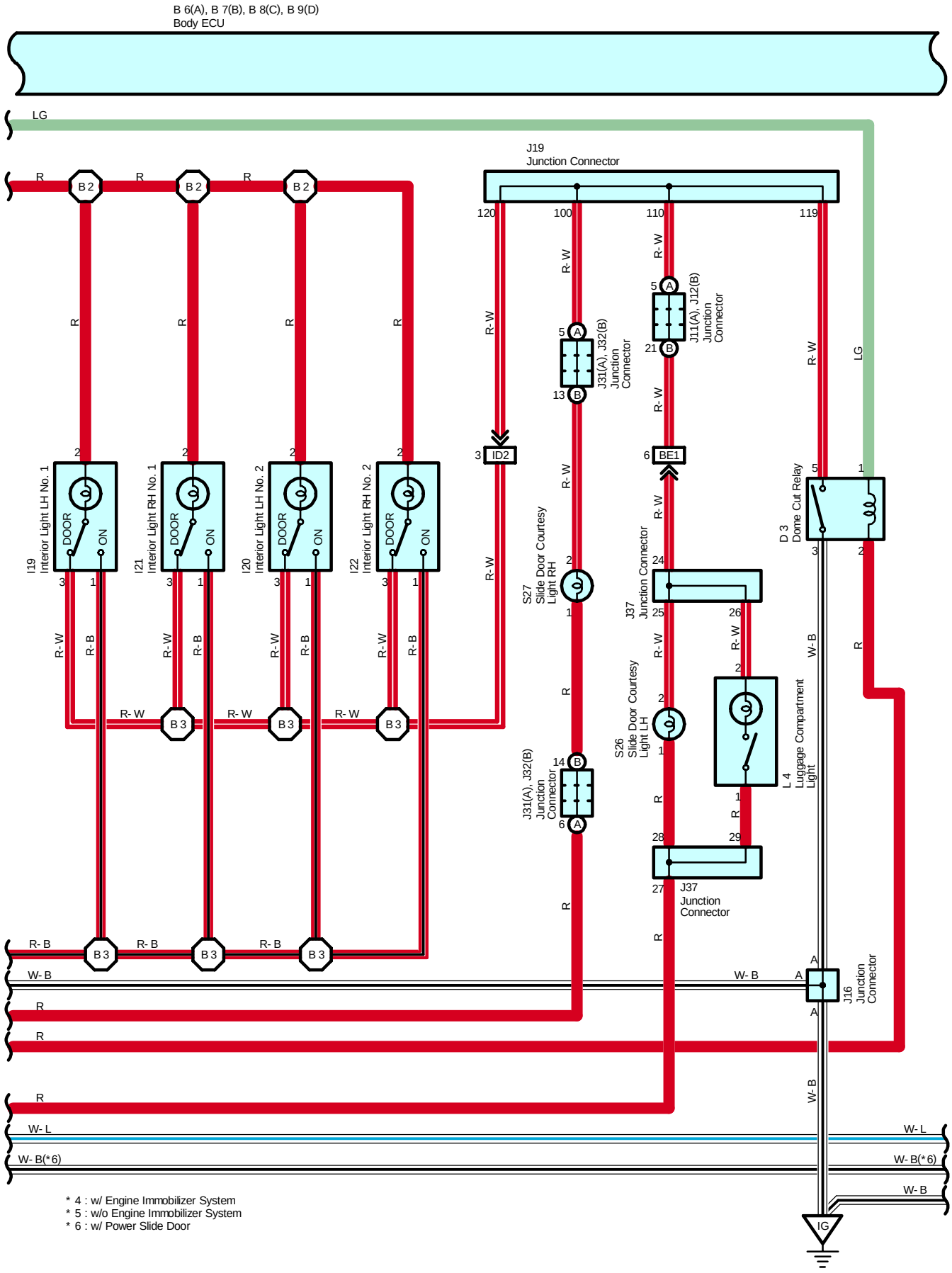

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
R- B
R
J 2
Junction
Connector
DRL NO. 4 Relay
DRL NO. 3 Relay
H 6
Headlight LH (Low)
H 3
Headlight Control ECU LH
H 7
Headlight RH (High)
Short
Pin
(*2)
(*1)
W- B
R- Y
E 3
ED

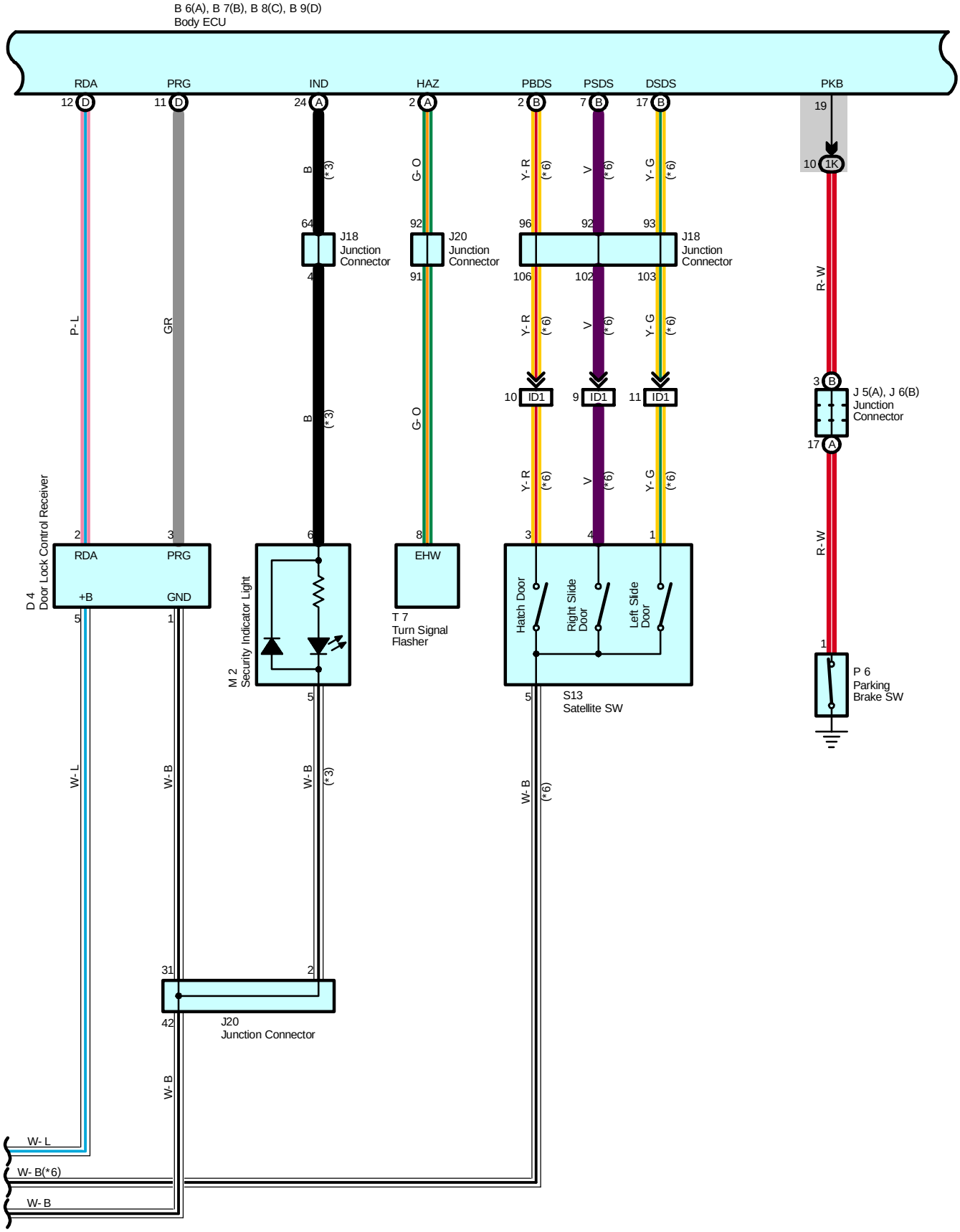

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
DRL
HU
TAIL
HEAD
HF
A
FFOG
11
13
17 A
23 A
15 A
16 A
22 A
23 1C
2 1N
R
From Power Source System
(See Page 58)
20A
DRL
4 2B
10A
H-LP RH
10A
H-LP LH
DRL
NO. 2
Relay
G-R
R-W
G-B
R-G
O
V
G-R
B-R
R-W
R-B
R-L
B-R
B-R
7
14
13
8
12
11
Light
Control SW
OFF
Tail
Head
AUTO
Dimmer
SW
Low
High
Flash
Fog
SW
OFF
ON
C11
Combination SW
16
17
10
G-O
H 5
Headlight LH
(High)
* 1 : w/ HID
* 2 : w/o HID
W-B
W-B
W-B
W-B
IE

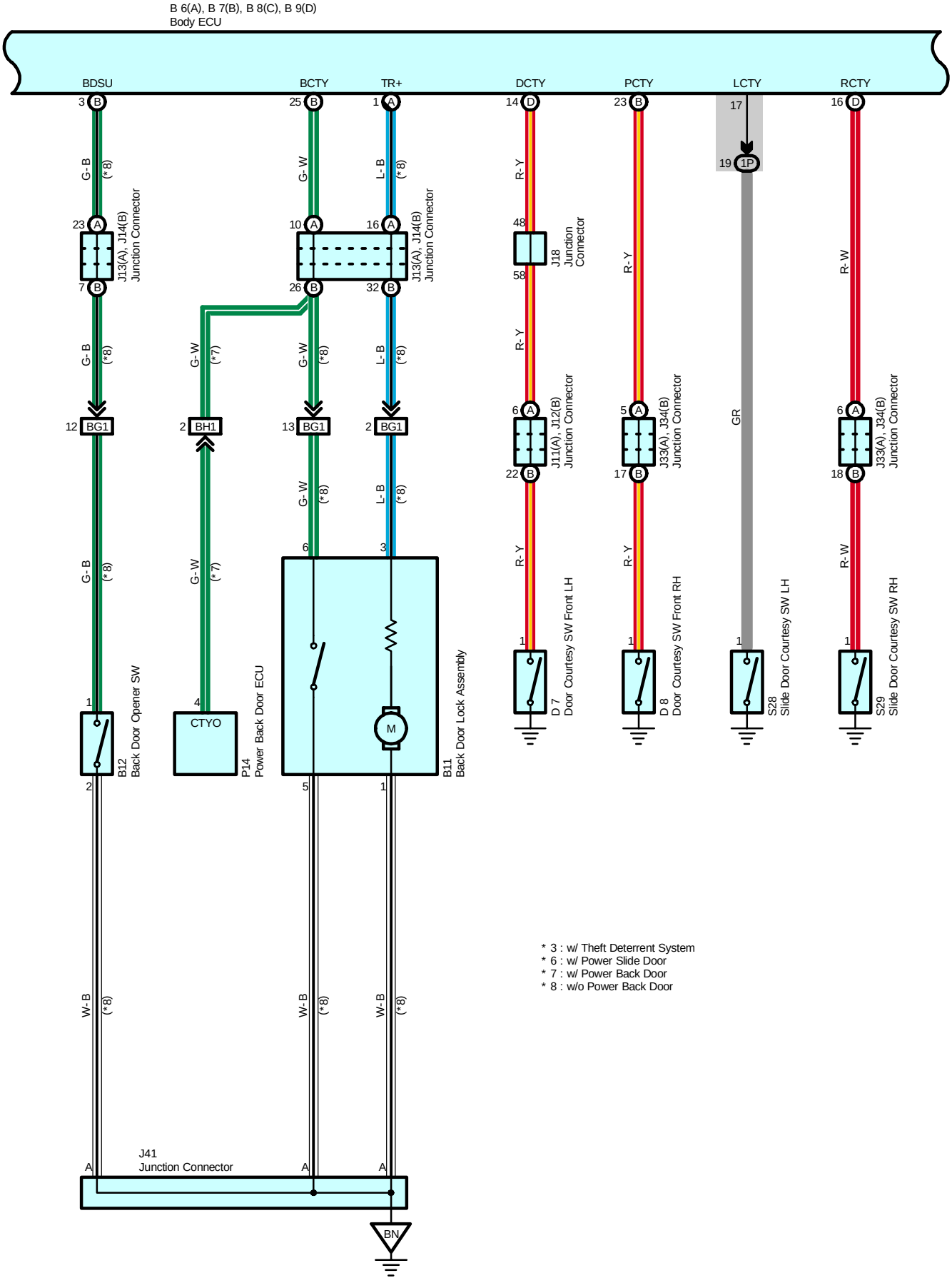

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
BECU
MPX2
From Power Source System (See Page 58)
10A
ECU- B
7. 5A
GAUGE2
J19
Junction Connector
C10
Combination Meter
Buzzer
Seat Belt
High Beam
Door
J35(A), J36(B)
Junction
Connector
J13(A), J14(B)
Junction
Connector
BJ1
MPX1
P27
Power Slide Door
ECU RH
J37
Junction
Connector
BD1
P25
Power Slide
Door ECU LH
P13
Power Back
Door ECU
W- L
B- R
R- L
V
BR
W- B
IF

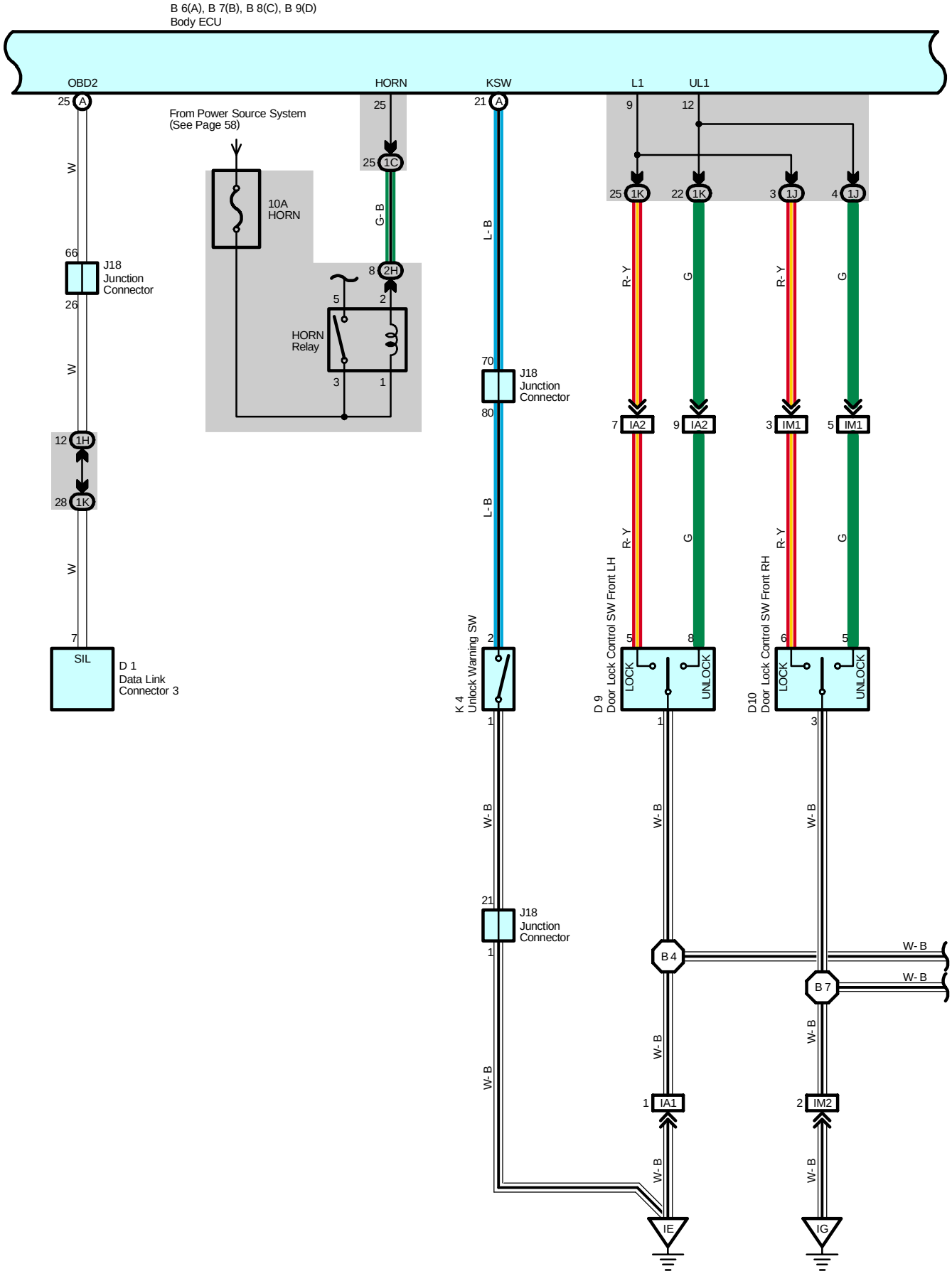

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
* 3 : w/ Theft Deterrent System
MPX1
HCTY
BZR
SH
DCYL
PCYL
From Power Source System
(See Page 58)
10A
DOME
J 3(A), J 4(B)
Junction Connector
A21
Airbag Sensor
Assembly
E 3
Engine Hood Courtesy SW
K 1
Keyless Buzzer
Buzzer
T 1
Theft Deterrent Horn
D 5
Door Courtesy Light
Front LH
D 6
Door Courtesy Light
Front RH
E 5
Engine Control Module
J19
Junction
Connector
J 1
Junction
Connector
A 9
A/C Control
Assembly
MPX2
MPX1
MPX-
MPX+
IA1
IM2
EA
R-W
R-G
R-L
G
GR
W-B
W-L
V
R

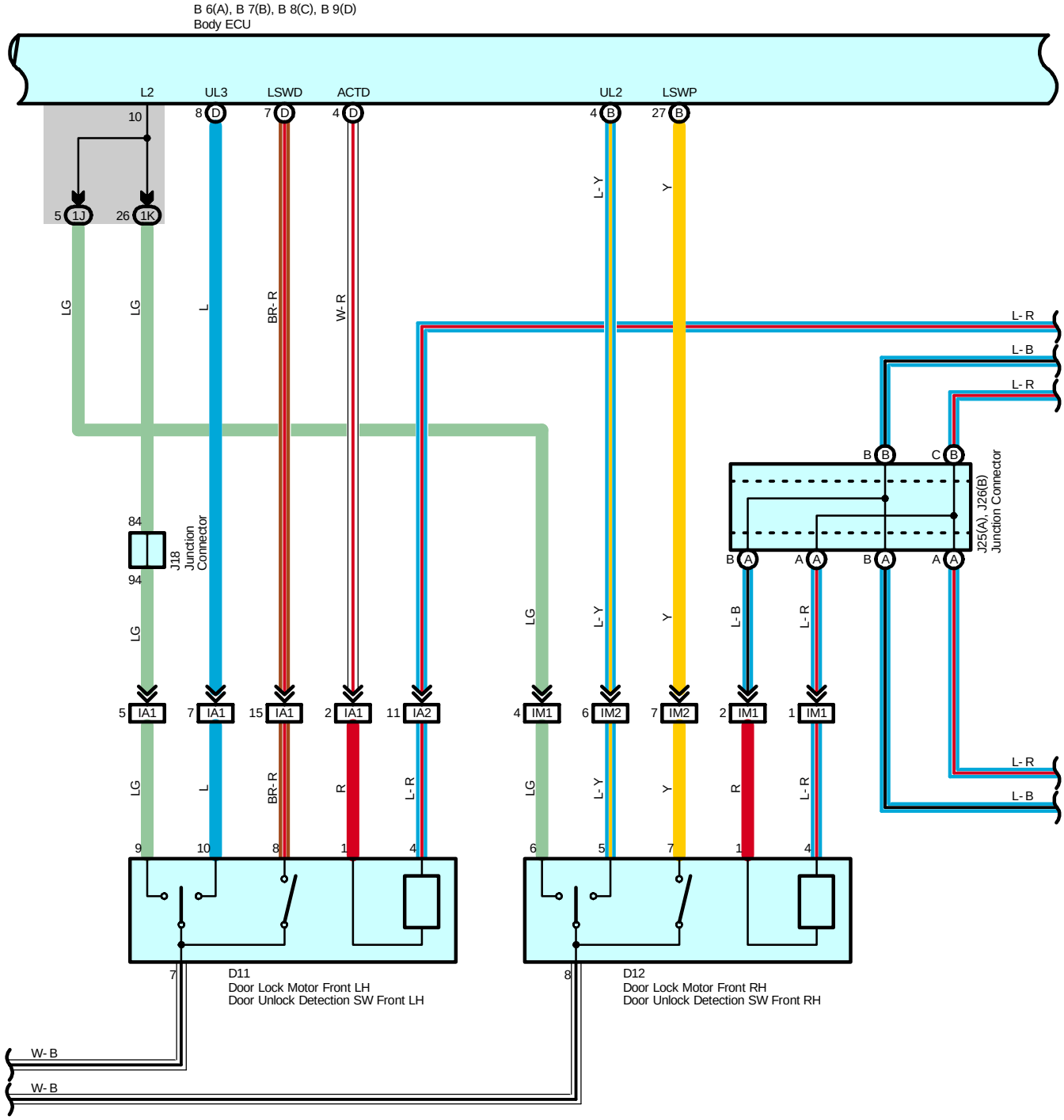

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
ILE
RCUT
21
9
30
1H
B
LG
L
G
48
17
28
J19
Junction Connector
38
39
L
L
G
5
6
FCTY
RCTY
ON
DOOR
OFF
I13(B), I14(A)
Ignition Key Cylinder Light
6
A
(*4)
1
B
(*5)
2
A
(*4)
2
B
(*5)
I16
Interior Light SW
E
RLMP
FLMP
RLY
7
8
10
9
W-B
R-B
R-G
LG
1
ID2
10
ID2
R-B
R-G
R
P11
Personal Light
2
3
1
R-G
W-B
B 2
R
B 2
R
B 2
R
R
R
R
R
V 8
Vanity Light RH
V 7
Vanity Light LH
1
1
2
2
W-B
W-B
W-B
B 1
W-B
B 1
W-B
R-B
R
W-B
R
R
R
R
R
R
W-L
W-L
W-B
W-B
W-B(*6)
B 1

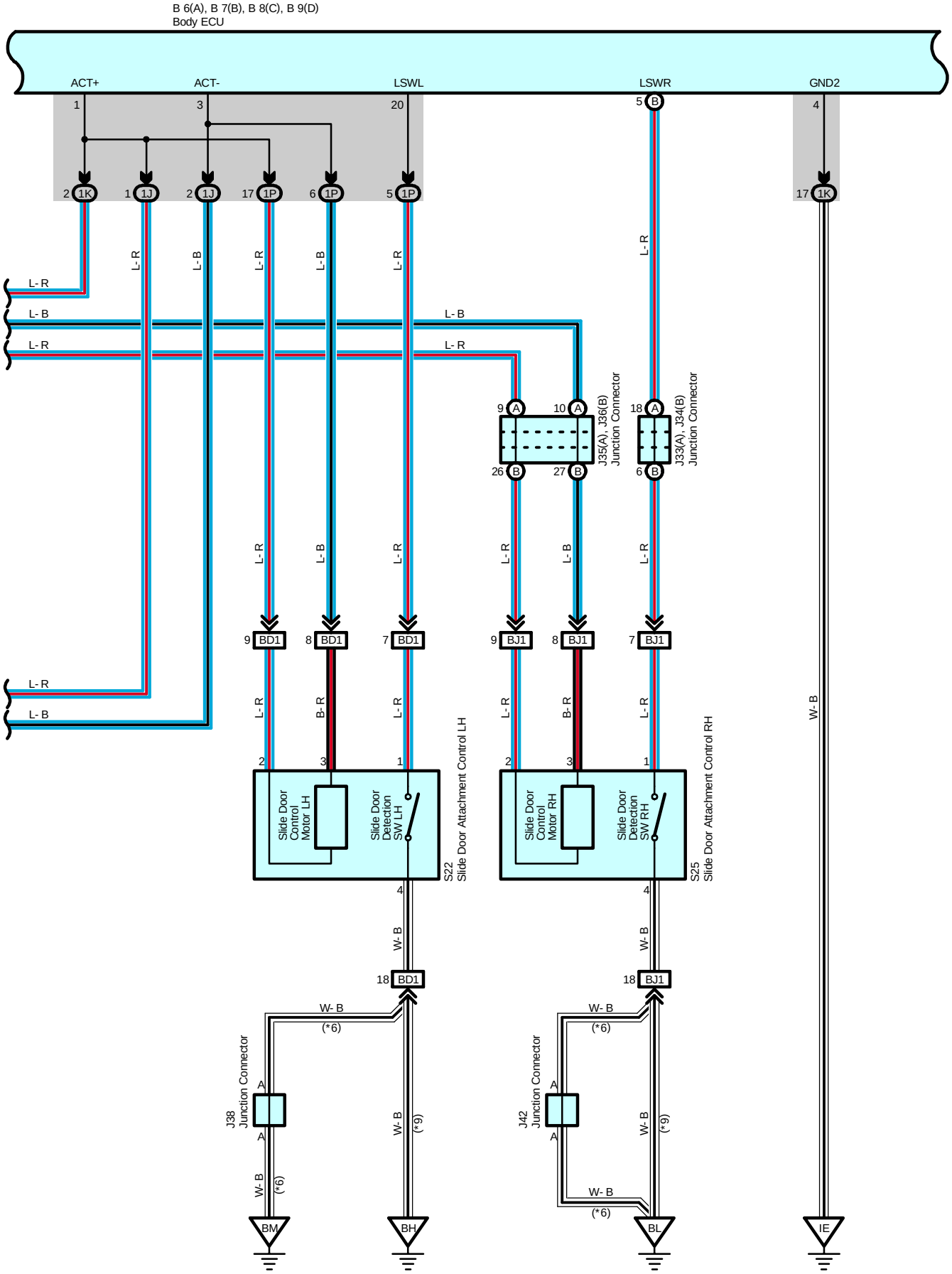

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
LG
J19
Junction Connector
120
100
110
119
R
B 2
R- W
R- B
W- B
W- L
W- B(*6)
LG
I19
Interior Light LH No. 1
I21
Interior Light RH No. 1
I20
Interior Light LH No. 2
I22
Interior Light RH No. 2
DOOR
ON
B 3
ID2
BE1
S27
Slide Door Courtesy
Light RH
S26
Slide Door Courtesy
Light LH
J37
Junction Connector
J31(A), J32(B)
Junction
Connector
J11(A), J12(B)
Junction
Connector
D 3
Dome Cut Relay
L 4
Luggage Compartment
Light
J16
Junction
Connector
IG
* 4 : w/ Engine Immobilizer System
* 5 : w/o Engine Immobilizer System
* 6 : w/ Power Slide Door

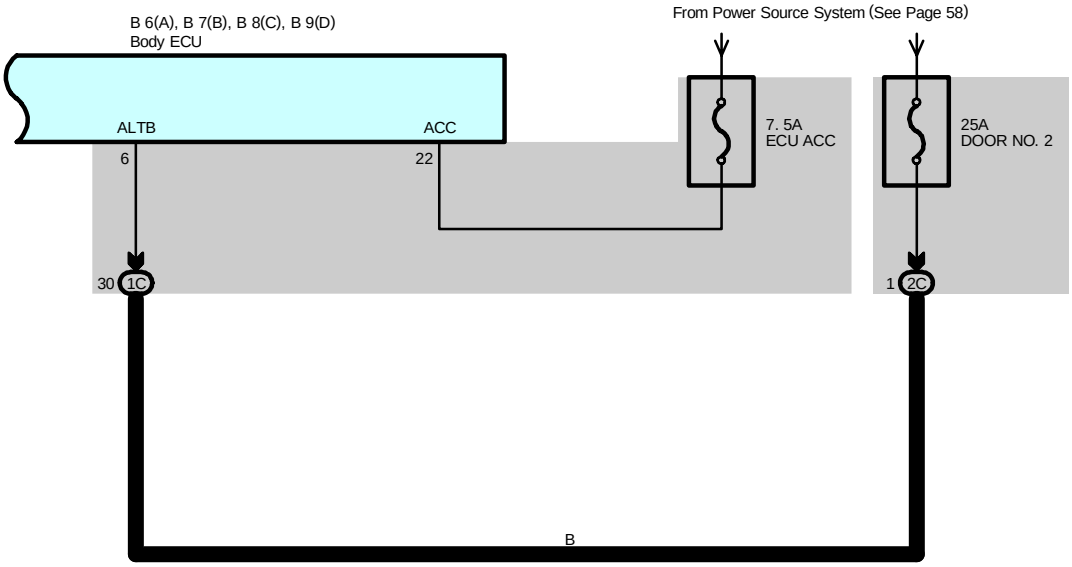

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
RDA
PRG
IND
HAZ
PBDS
PSDS
DSDS
PKB
12 D
11 D
24 A
2 A
2 B
7 B
17 B
19
10 1K
B (*3)
G-O
Y-R (*6)
V (*6)
Y-G (*6)
R-W
64
92
96
92
93
J18 Junction Connector
J20 Junction Connector
J18 Junction Connector
4
91
106
102
103
P-L
GR
Y-R (*6)
V (*6)
Y-G (*6)
10 ID1
9 ID1
11 ID1
3 B
J 5(A), J 6(B) Junction Connector
17 A
2
3
6
8
3
4
1
D 4 Door Lock Control Receiver
RDA
PRG
+B
GND
EHW
T 7 Turn Signal Flasher
Hatch Door
Right Side Door
Left Side Door
5
1
5
5
1
M 2 Security Indicator Light
S13 Satellite SW
P 6 Parking Brake SW
W-L
W-B
W-B (*3)
W-B (*6)
31
2
42
J20 Junction Connector
W-B
W-L
W-B(*6)
W-B


B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
BDSU
BCTY
TR+
DCTY
PCTY
LCTY
RCTY
G-B (*8)
G-W (*7)
L-B (*8)
R-Y
R-W
GR
J13(A), J14(B) Junction Connector
J18 Junction Connector
J11(A), J12(B) Junction Connector
J33(A), J34(B) Junction Connector
B12 Back Door Opener SW
P14 Power Back Door ECU
B11 Back Door Lock Assembly
D 7 Door Courtesy SW Front LH
D 8 Door Courtesy SW Front RH
S28 Slide Door Courtesy SW LH
S29 Slide Door Courtesy SW RH
BG1
BH1
CTYO
M
W-B (*8)
J41 Junction Connector
BN
* 3 : w/ Theft Deterrent System
* 6 : w/ Power Slide Door
* 7 : w/ Power Back Door
* 8 : w/o Power Back Door


B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
OBD2
HORN
KSW
L1
UL1
From Power Source System
(See Page 58)
10A
HORN
HORN
Relay
J18
Junction
Connector
SIL
D 1
Data Link
Connector 3
K 4
Unlock Warning SW
D 9
Door Lock Control SW Front LH
D10
Door Lock Control SW Front RH
LOCK
UNLOCK
B 4
B 7
IE
IG
W
G- B
L- B
R- Y
G
W- B


B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
L2
UL3
LSWD
ACTD
UL2
LSWP
10
8 D
7 D
4 D
4 B
27 B
5 1J
26 1K
LG
LG
L
BR-R
W-R
L-Y
Y
L-R
L-B
L-R
B B
C B
B A
A A
B A
A A
J25(A), J26(B)
Junction Connector
84
94
J18
Junction
Connector
LG
LG
L-B
L-R
5 IA1
7 IA1
15 IA1
2 IA1
11 IA2
4 IM1
6 IM2
7 IM2
2 IM1
1 IM1
LG
L
BR-R
R
L-R
LG
L-Y
Y
R
L-R
9
10
8
1
4
6
5
7
1
4
7
8
D11
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D12
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
W-B
W-B


B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
ACT+
ACT-
LSWL
LSWR
GND2
1
3
20
5 B
4
2 1K
1 1J
2 1J
17 1P
6 1P
5 1P
17 1K
L- R
L- B
9 A
10 A
18 A
26 B
27 B
6 B
J35(A), J36(B) Junction Connector
J33(A), J34(B) Junction Connector
9 BD1
8 BD1
7 BD1
9 BJ1
8 BJ1
7 BJ1
B- R
2
3
1
Slide Door Control Motor LH
Slide Door Detection SW LH
S22 Slide Door Attachment Control LH
Slide Door Control Motor RH
Slide Door Detection SW RH
S25 Slide Door Attachment Control RH
4
W- B
18 BD1
18 BJ1
(*6)
(*9)
J38 Junction Connector
J42 Junction Connector
A
BM
BH
BL
IE



* 6 : w/ Power Slide Door
* 9 : w/o Power Slide Door

Service Hints

Body ECU

6, 26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	H5	32	J33 A	36
A21	34	H6	32	J34 B	36
A25	34	H7	32	J35 A	36
B6 A	34	H8	32	J36 B	36
B7 B	34	I13 B	35	J37	39
B8 C	34	I14 A	35	J38	39
B9 D	34	I16	35	J41	39
B11	38	I19	38	J42	39
B12	38	I20	38	K1	33
C10	35	I21	38	K4	36
C11	35	I22	38	L4	39
D1	35	J1	33	M2	36
D3	35	J2	33	P6	37
D4	35	J3 A	36	P11	39
D5	38	J4 B	36	P13	39
D6	38	J5 A	36	P14	39
D7	38	J6 B	36	P25	39
D8	38	J11 A	36	P27	39
D9	38	J12 B	36	S13	40
D10	38	J13 A	36	S22	40
D11	38	J14 B	36	S25	40
D12	38	J16	36	S26	40
E3	32	J18	36	S27	40
E5	35	J19	36	S28	40
F1	32	J20	36	S29	40
F2	32	J25 A	36	T1	33
F6 A	32	J26 B	36	T7	37
F7 B	32	J27	36	V7	41
H3	32	J31 A	36	V8	41
H4	32	J32 B	36		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)
4	24	R/B No.4 (Engine Compartment Left)



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1J	27	
1K		
1L		
1N		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2B	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2C		
2F		
2G		
2H		



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
ID1	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
ID2		
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
BD1	50	Rear Door No.2 Wire and Floor No.1 Wire (On the Left Rear Wheel House)
BE1	50	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BH1	52	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BJ1	52	Rear Door No.1 Wire and Floor No.2 Wire (On the Right Rear Wheel House)



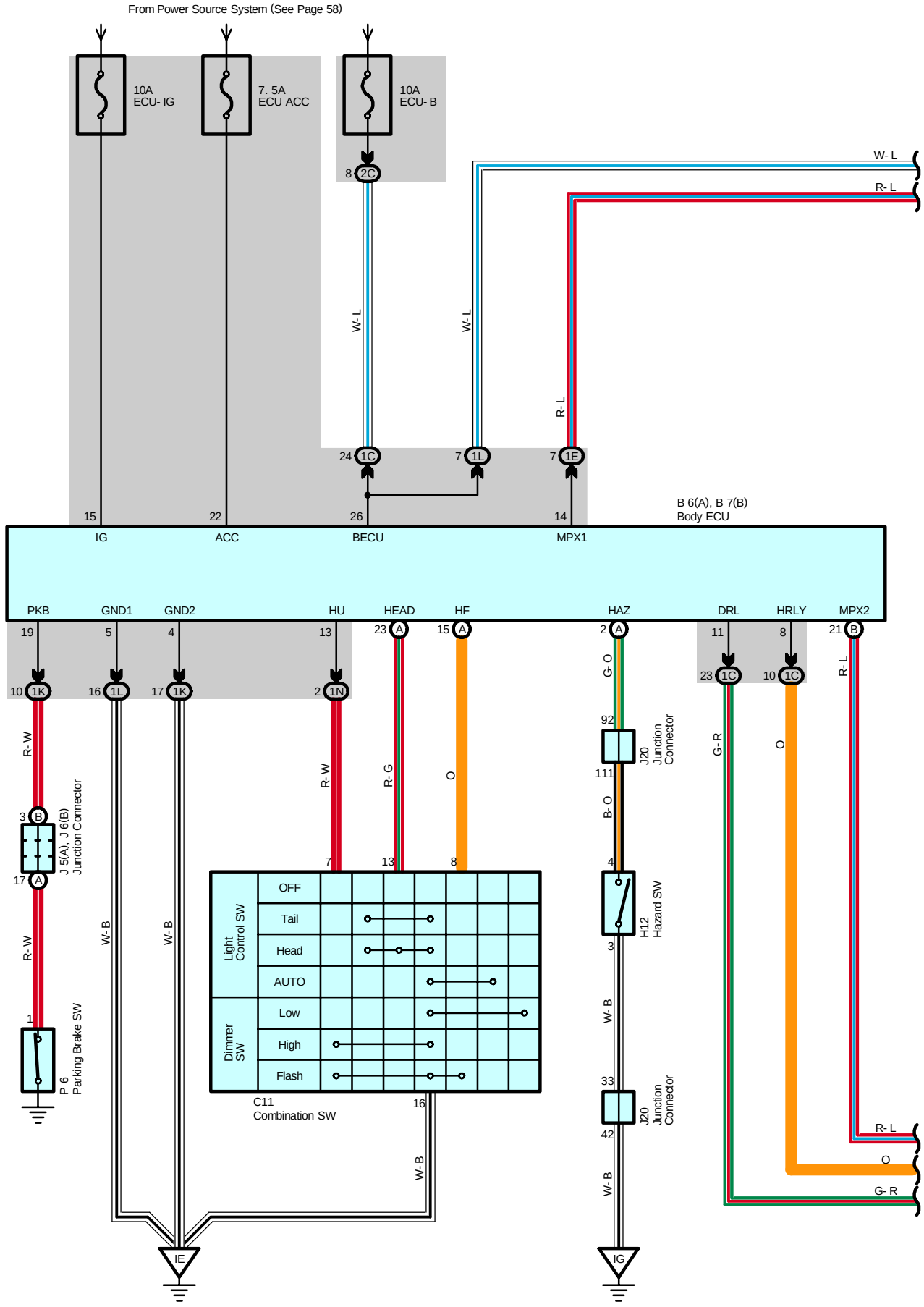
: Ground Points

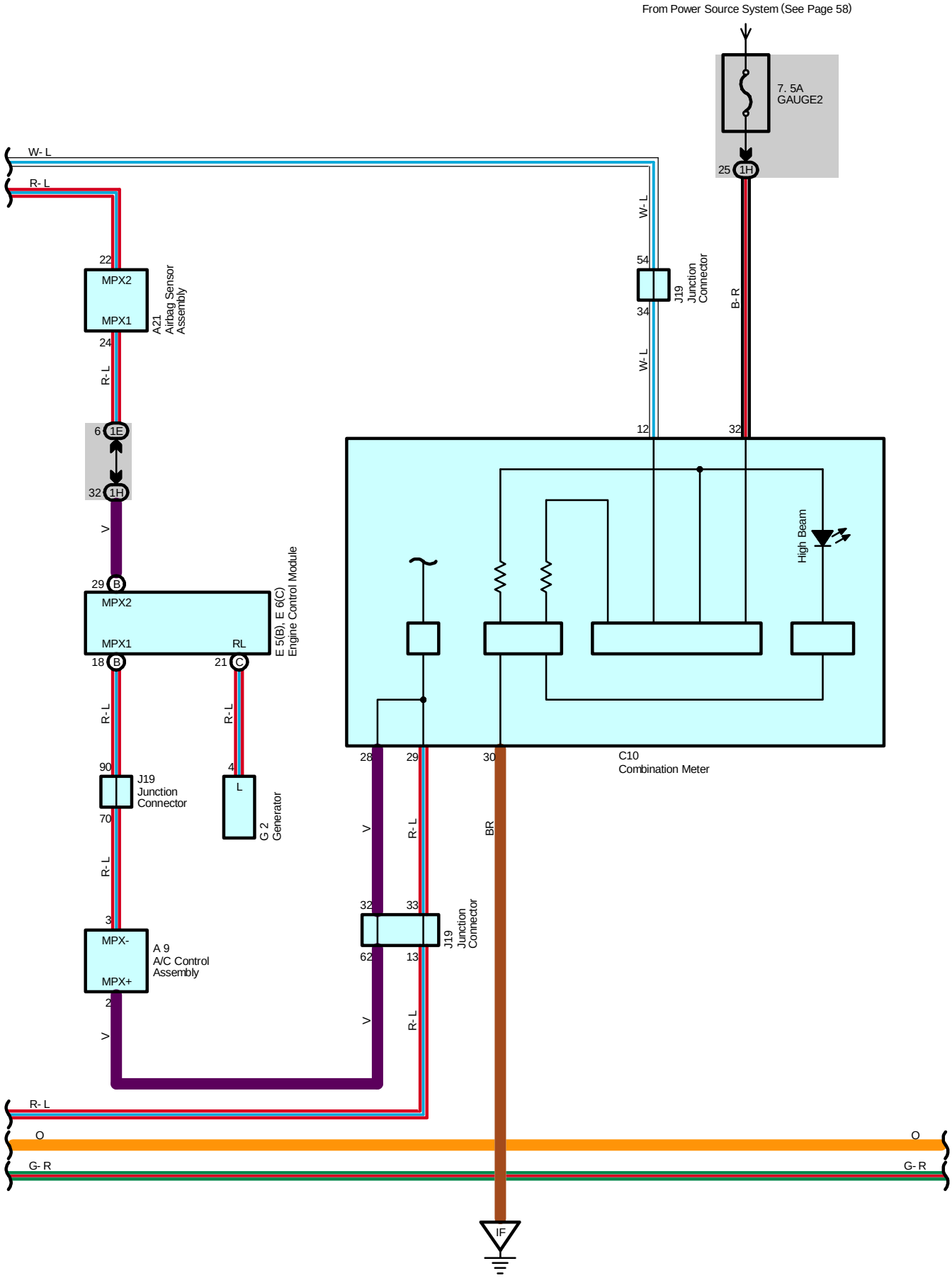
Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel
BH	50	Under the Left Center Pillar
BL	50	Right Rear Quarter Panel
BM	50	Left Rear Quarter Panel
BN	50	Left Side of the Back Door

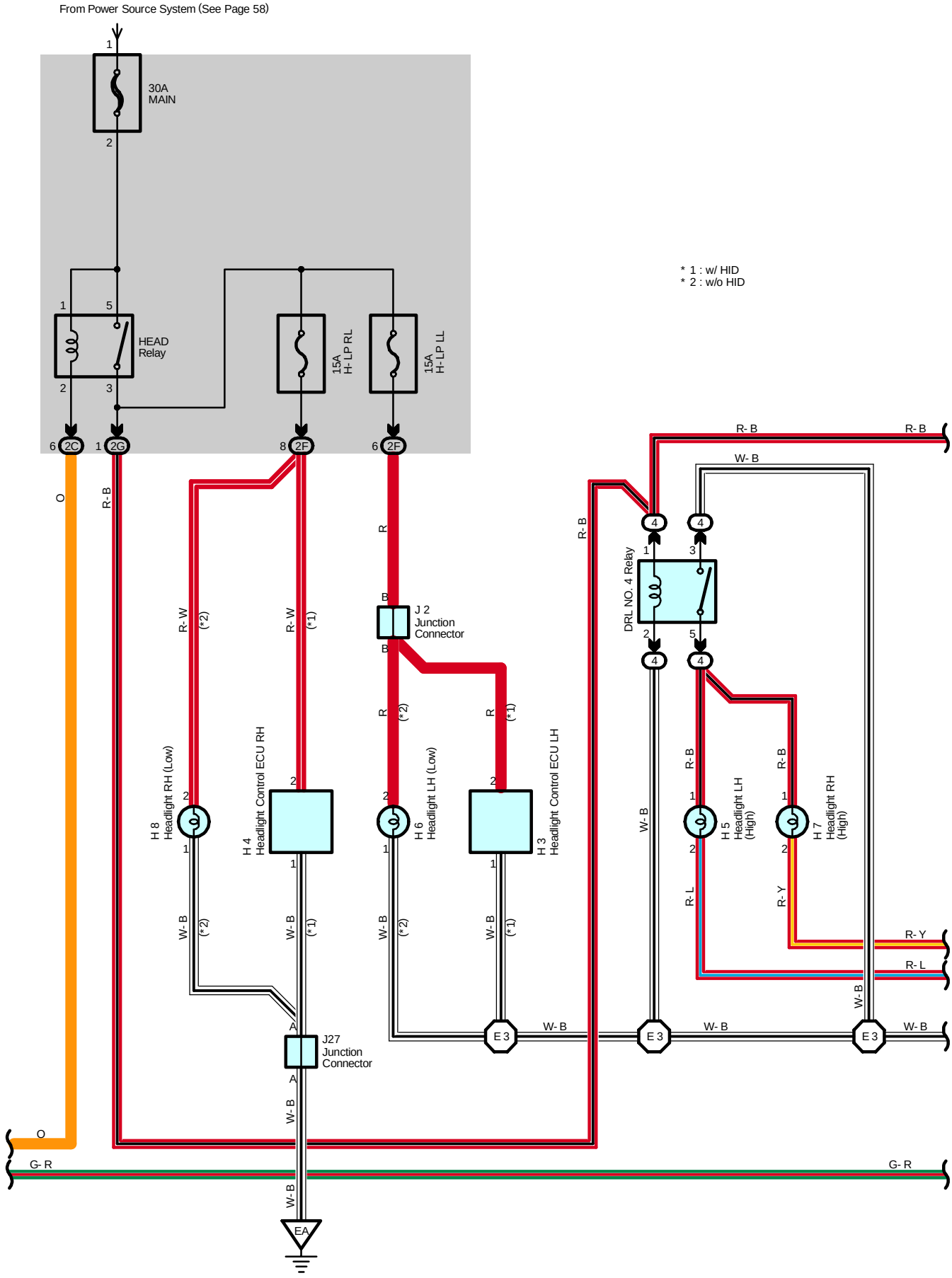


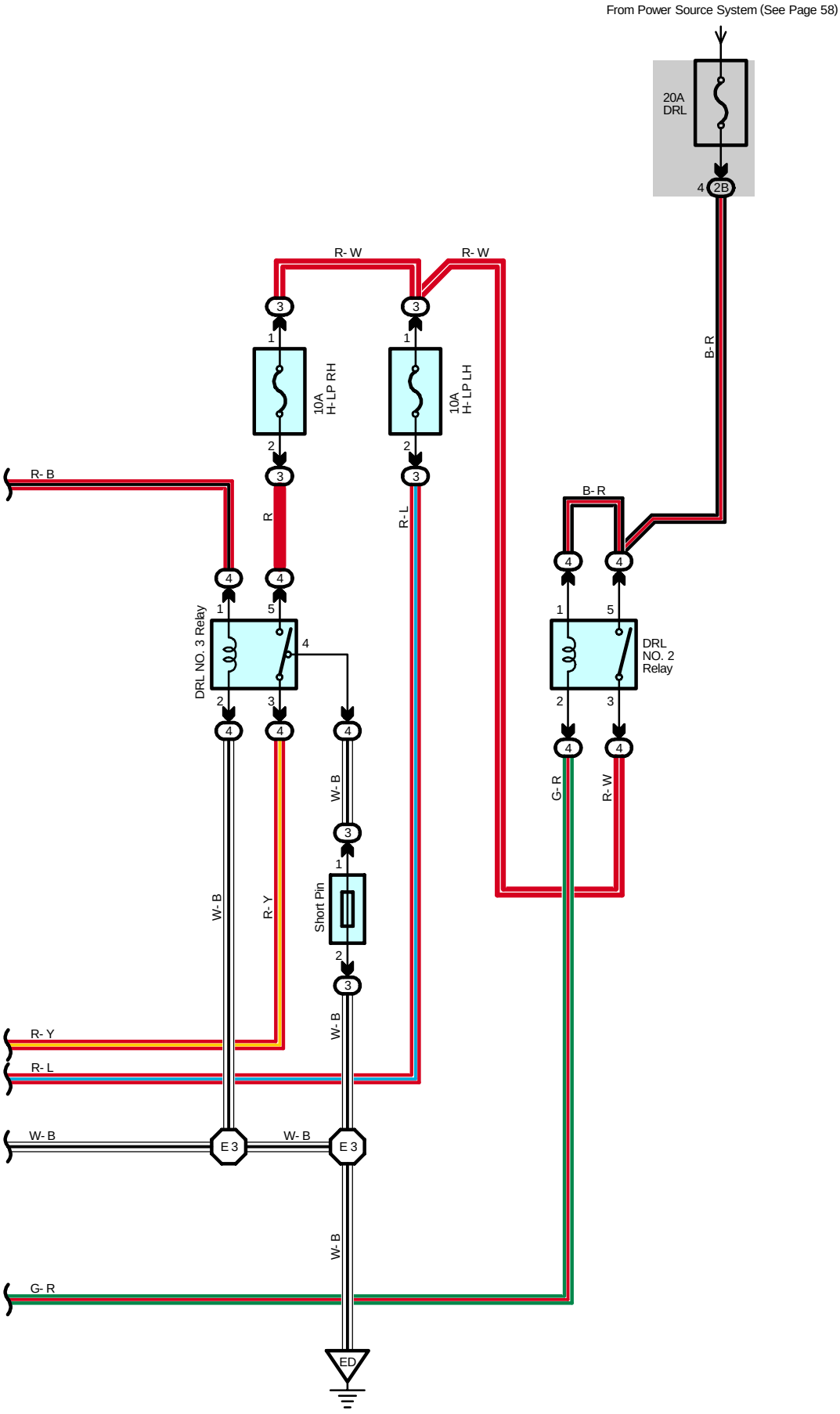
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E3	44	Engine Room Main Wire	B3	52	Roof Wire
B1	52	Roof Wire	B4	52	Front Door LH Wire
B2			B7	52	Front Door RH Wire


From Power Source System (See Page 58)
10A
ECU- IG
7. 5A
ECU ACC
10A
ECU- B
W- L
R- L
B 6(A), B 7(B)
Body ECU
IG
ACC
BECU
MPX1
PKB
GND1
GND2
HU
HEAD
HF
HAZ
DRL
HRLY
MPX2
J 5(A), J 6(B)
Junction Connector
P 6
Parking Brake SW
C11
Combination SW
Light
Control SW
Dimmer
SW
OFF
Tail
Head
AUTO
Low
High
Flash
J20
Junction
Connector
H12
Hazard SW
IE
IG


From Power Source System (See Page 58)
7. 5A
GAUGE2
25
1H
W- L
R- L
W- L
54
J19
Junction
Connector
34
W- L
B- R
12
32
22
MPX2
MPX1
A21
Airbag Sensor
Assembly
24
R- L
6
1E
32
1H
V
29
B
MPX2
MPX1
RL
18
B
21
C
E 5(B), E 6(C)
Engine Control Module
R- L
R- L
90
J19
Junction
Connector
70
4
L
G 2
Generator
R- L
3
MPX-
MPX+
A 9
A/C Control
Assembly
2
V
V
28
29
30
C10
Combination Meter
High Beam
V
R- L
BR
32
33
J19
Junction
Connector
62
13
V
R- L
R- L
O
G- R
O
G- R
IF


From Power Source System (See Page 58)
30A MAIN
HEAD Relay
15A H-LP RL
15A H-LP LL
* 1 : w/ HID
* 2 : w/o HID
DRL NO. 4 Relay
J 2 Junction Connector
J27 Junction Connector
H 8 Headlight RH (Low)
H 4 Headlight Control ECU RH
H 6 Headlight LH (Low)
H 3 Headlight Control ECU LH
H 5 Headlight LH (High)
H 7 Headlight RH (High)
E 3
EA
2C
2G
2F
O
R- B
R- W
R
W- B
R- L
R- Y
G- R


From Power Source System (See Page 58)
20A
DRL
4
2B
B-R
R-W
R-W
3
1
10A
H-LP RH
2
3
R
10A
H-LP LH
R-L
R-B
4
4
1
5
DRL NO. 3 Relay
4
2
3
4
4
4
W-B
R-Y
W-B
Short Pin
R-Y
R-L
W-B
E3
W-B
E3
W-B
G-R
ED
B-R
4
4
1
5
DRL
NO. 2
Relay
2
3
4
4
G-R
R-W

Headlight

Service Hints

Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity

C11 Combination SW

13-16 : Closed with light control SW at HEAD position
8-16 : Closed with dimmer SW at FLASH position
7-16 : Closed with dimmer SW at HIGH or FLASH position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	G2	32	J2	33
A21	34	H3	32	J5 A	36
B6 A	34	H4	32	J6 B	36
B7 B	34	H5	32	J19	36
C10	35	H6	32	J20	36
C11	35	H7	32	J27	36
E5 B	35	H8	32	P6	37
E6 C	35	H12	35		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)
4	24	R/B No.4 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
1N		
2B	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2C		
2F		
2G		

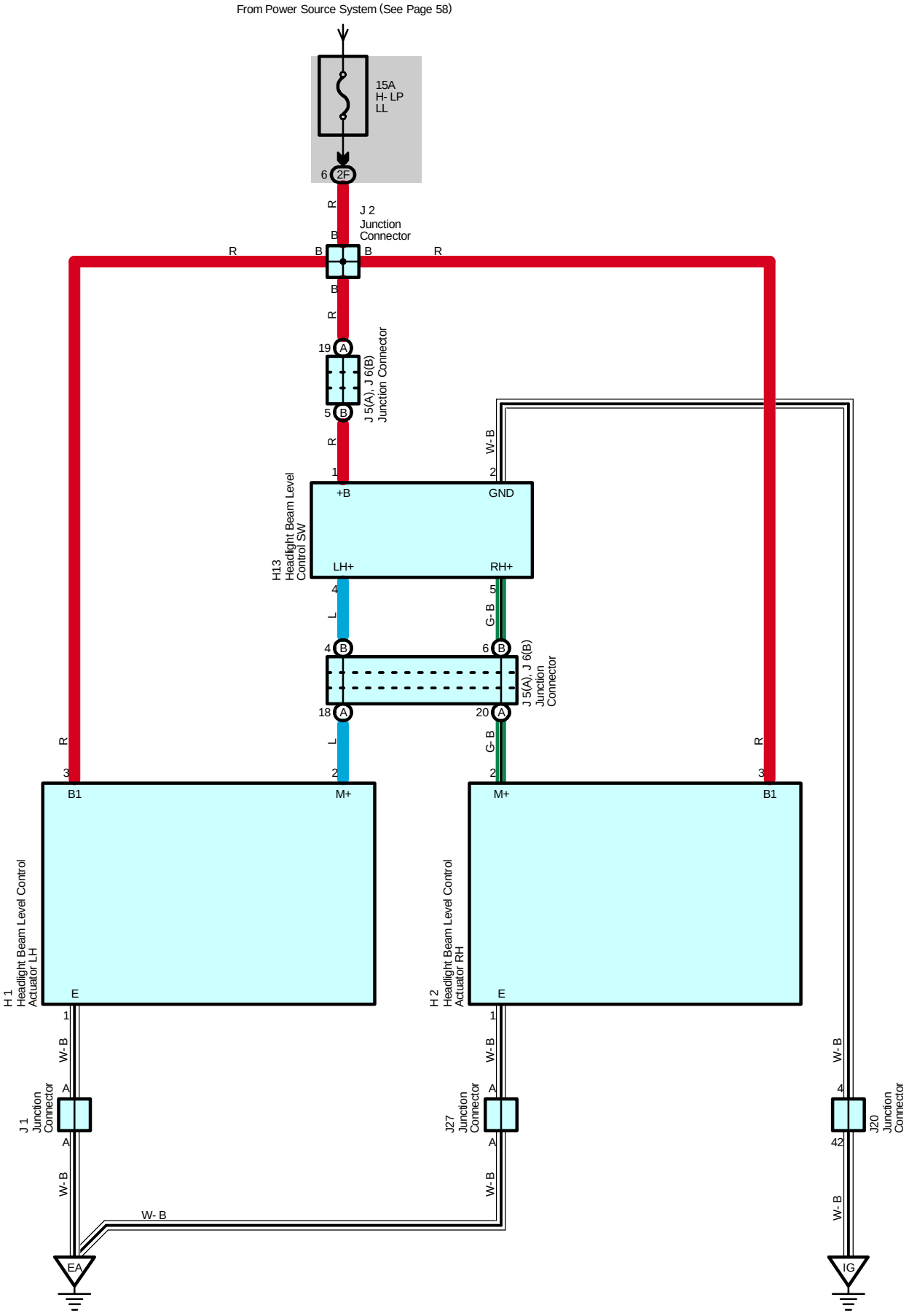
: Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E3	44	Engine Room Main Wire			

Headlight Beam Level Control



Service Hints

H13 Headlight Beam Level Control SW

1-Ground : Approx. 12 volts with light control SW at HEAD position
2-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
H1	32	J1	33	J6 B	36
H2	32	J2	33	J20	36
H13	35	J5 A	36	J27	36

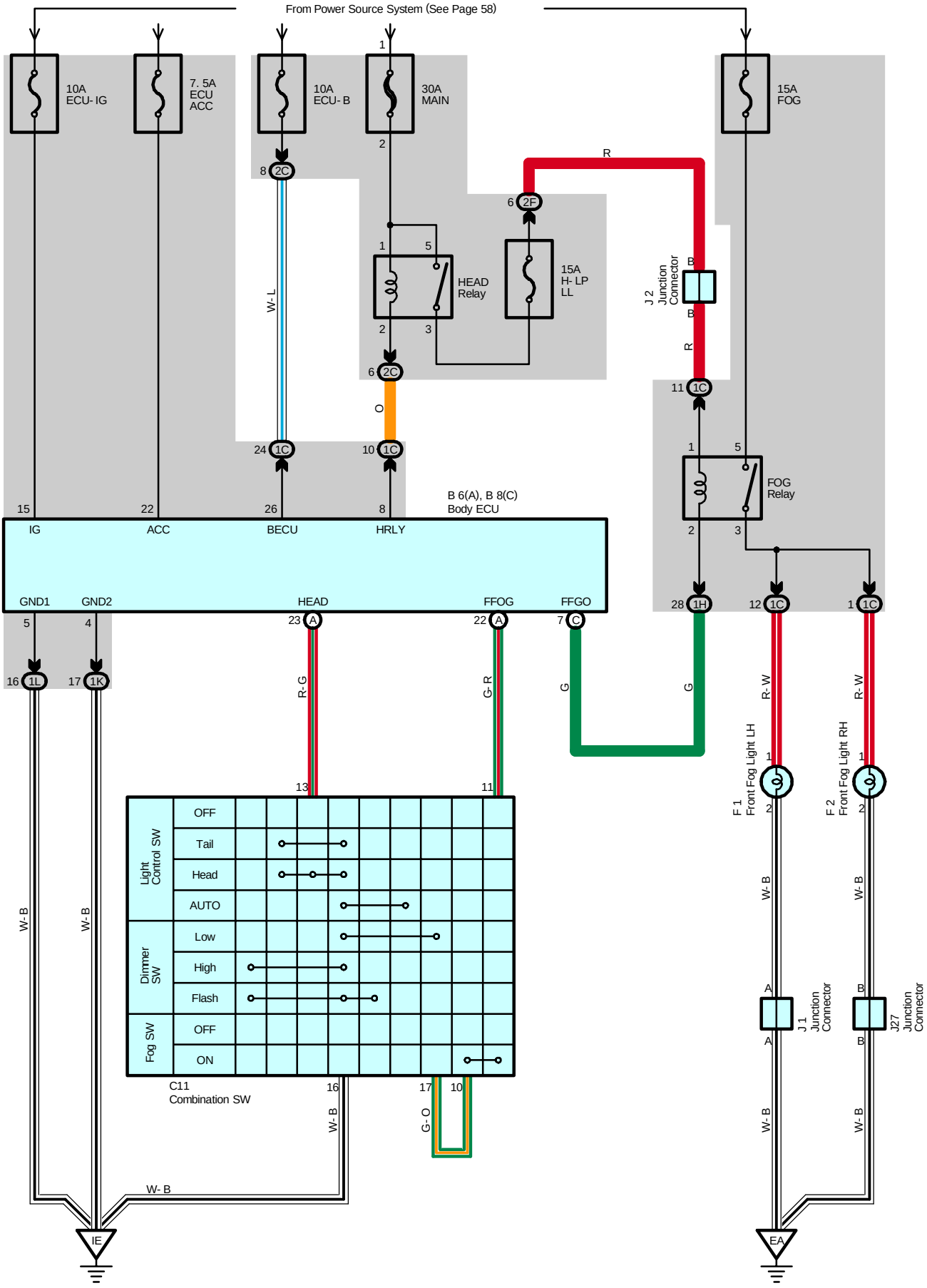
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

▽ : Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
IG	46	Right Kick Panel

Fog Light


From Power Source System (See Page 58)
10A ECU- IG
7. 5A ECU ACC
10A ECU- B
30A MAIN
15A FOG
HEAD Relay
15A H- LP LL
J 2 Junction Connector
FOG Relay
B 6(A), B 8(C) Body ECU
IG
ACC
BECU
HRLY
GND1
GND2
HEAD
FFOG
FFGO
W- L
O
R
R- G
G- R
G
R- W
W- B
G- O
Light Control SW
OFF
Tail
Head
AUTO
Dimmer SW
Low
High
Flash
Fog SW
OFF
ON
C11 Combination SW
F 1 Front Fog Light LH
F 2 Front Fog Light RH
J 1 Junction Connector
J27 Junction Connector
IE
EA

Service Hints

C11 Combination SW

11-Ground : Continuity with light control SW at HEAD position, dimmer SW at LOW position and fog light SW at ON position

○ : Parts Location

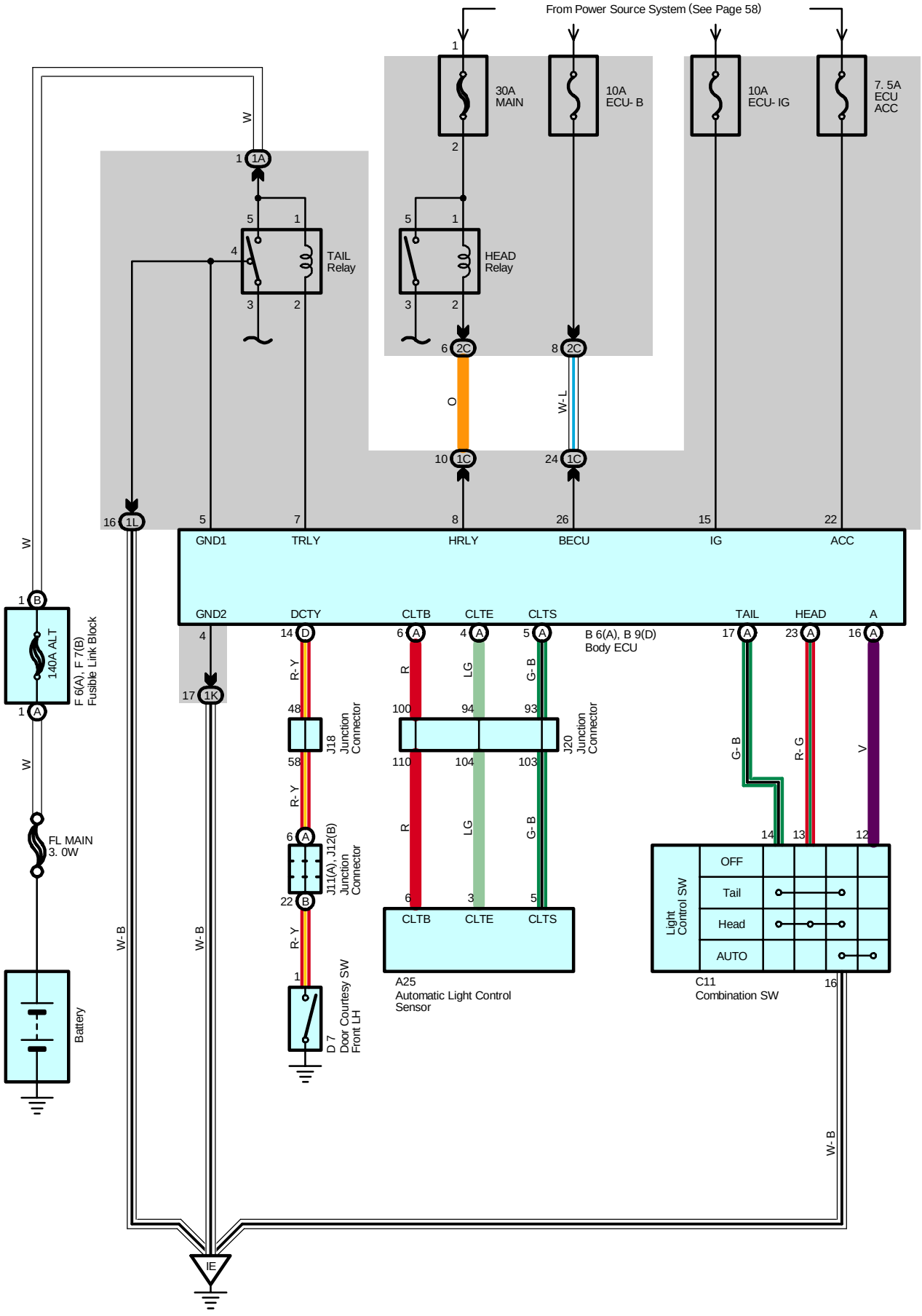
Code		See Page	Code	See Page	Code	See Page
B6	A	34	F1	32	J2	33
B8	C	34	F2	32	J27	36
C11		35	J1	33		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K	27	
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		

▽ : Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
IE	46	Left Kick Panel


From Power Source System (See Page 58)
30A MAIN
10A ECU- B
10A ECU- IG
7. 5A ECU ACC
TAIL Relay
HEAD Relay
GND1
TRLY
HRLY
BECU
IG
ACC
GND2
DCTY
CLTB
CLTE
CLTS
TAIL
HEAD
A
B 6(A), B 9(D) Body ECU
140A ALT
F 6(A), F 7(B) Fusible Link Block
FL MAIN 3. 0W
Battery
J18 Junction Connector
J11(A), J12(B) Junction Connector
J20 Junction Connector
D 7 Door Courtesy SW Front LH
A25 Automatic Light Control Sensor
C11 Combination SW
Light Control SW
OFF
Tail
Head
AUTO
W
W- B
R- Y
R
LG
G- B
R- G
V
O
W- L
IE

Service Hints

C11 Combination SW

12-16 : Closed with the light control SW at AUTO position

D7 Door Courtesy SW Front LH

1-Ground : Closed with the front LH door open

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A25	34	D7	38	J12 B	36
B6 A	34	F6 A	32	J18	36
B9 D	34	F7 B	32	J20	36
C11	35	J11 A	36		

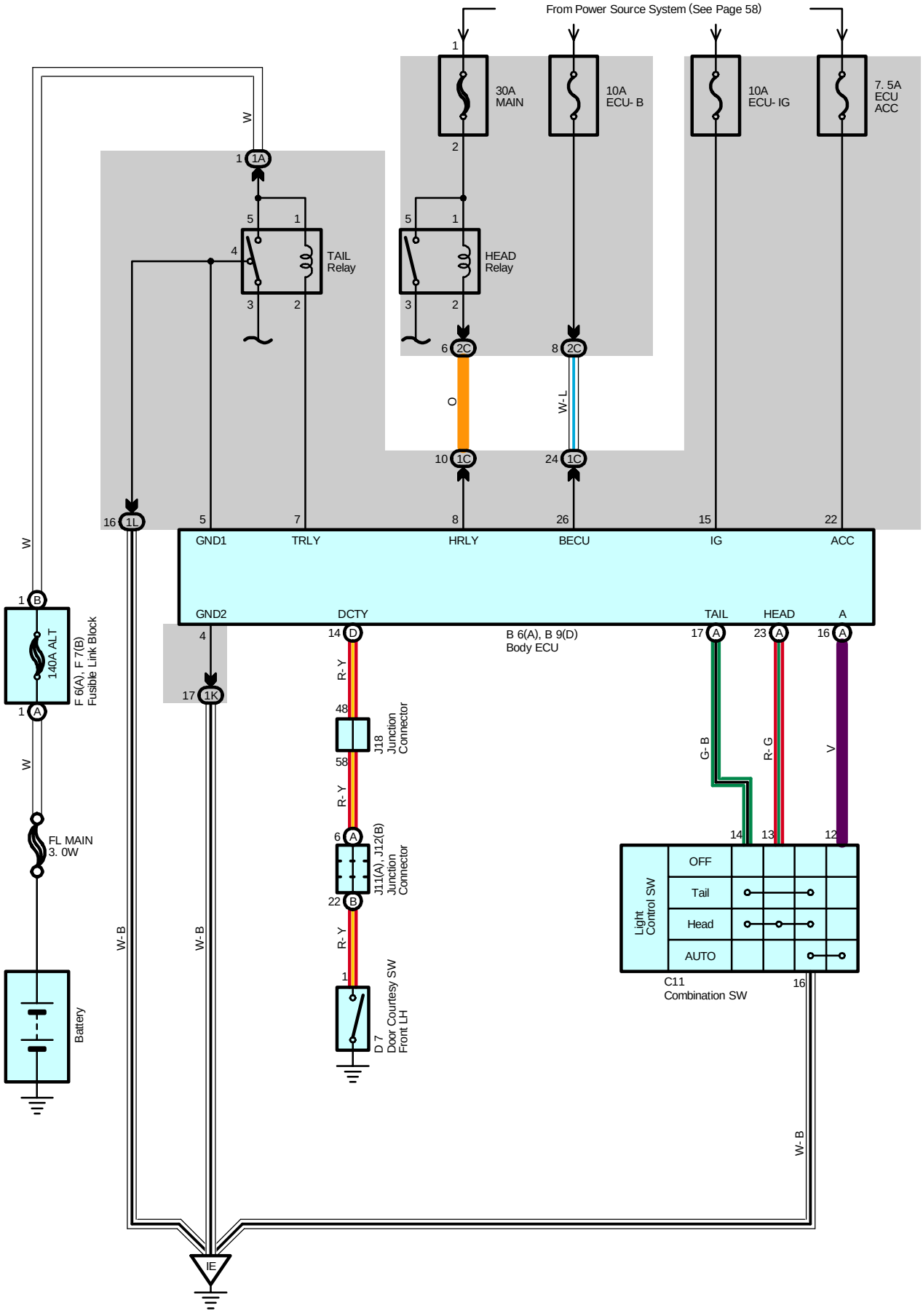
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1K	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel

Light Auto Turn Off System



Service Hints

B9 (D) Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity
(D)14-Ground : Continuity with the front LH door open

D7 Door Courtesy SW Front LH

1-Ground : Continuity with the front LH door open

: Parts Location

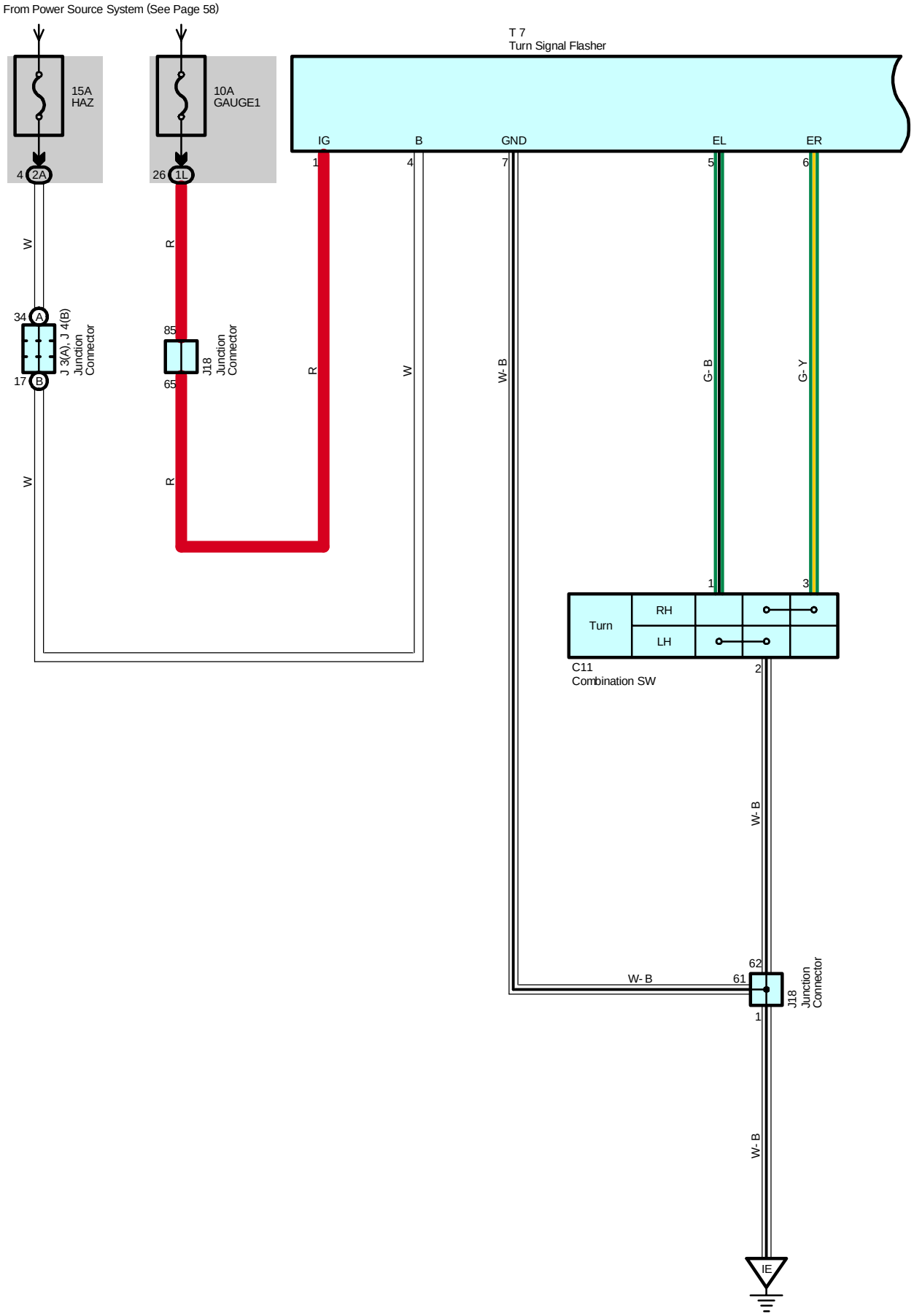
Code		See Page	Code		See Page	Code		See Page
B6	A	34	D7		38	J11	A	36
B9	D	34	F6	A	32	J12	B	36
C11		35	F7	B	32	J18		36

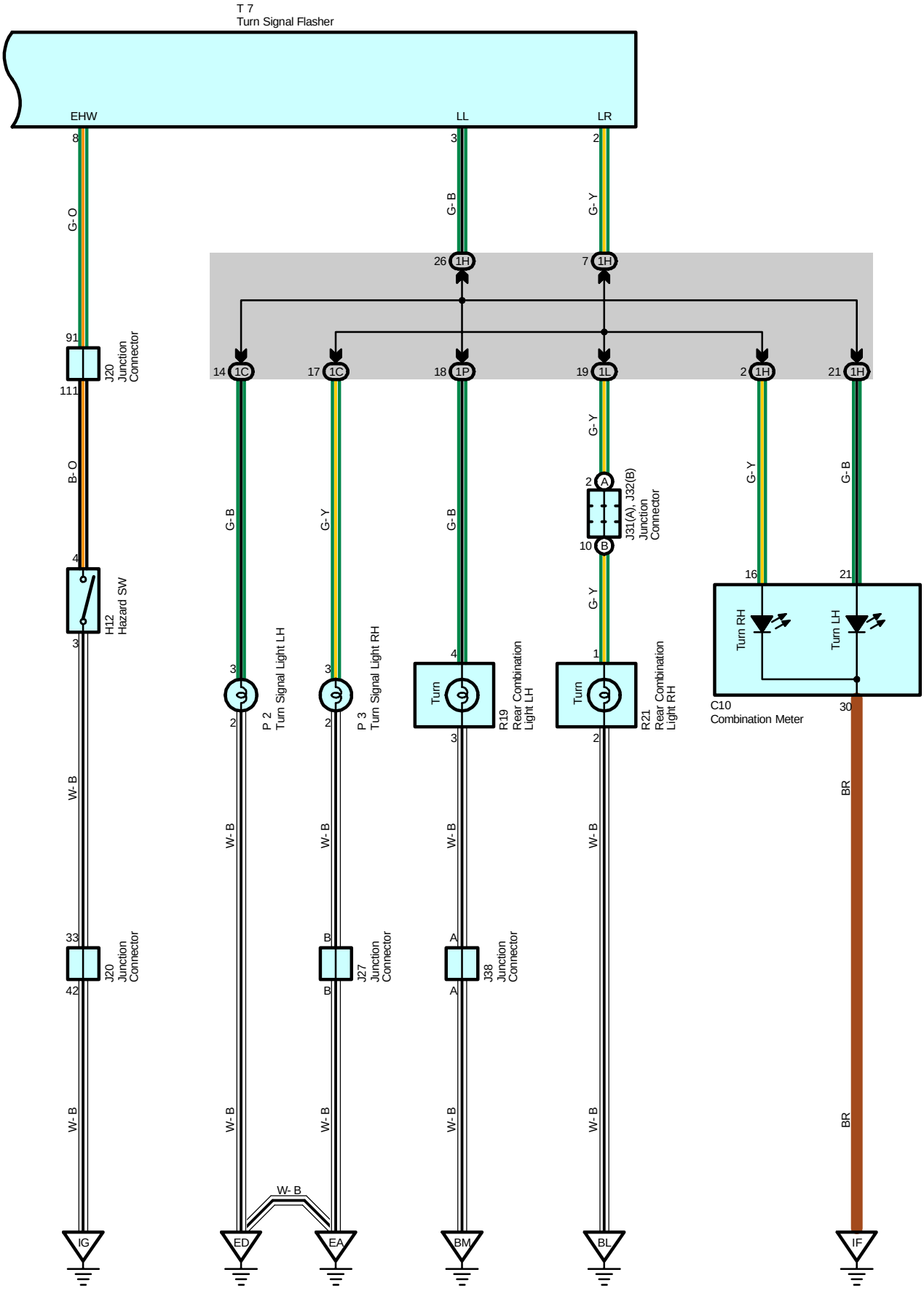
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1K	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel


From Power Source System (See Page 58)
15A
HAZ
10A
GAUGE1
T 7
Turn Signal Flasher
IG
B
GND
EL
ER
4
2A
26
1L
1
4
7
5
6
W
R
34
A
17
B
J 3(A), J 4(B)
Junction
Connector
85
65
J18
Junction
Connector
R
W
W- B
G- B
G- Y
1
3
Turn
RH
LH
C11
Combination SW
2
W- B
62
61
W- B
J18
Junction
Connector
1
W- B
IE


T 7
Turn Signal Flasher
EHW
LL
LR
8
3
2
G- O
G- B
G- Y
26 1H
7 1H
91
111
J20
Junction
Connector
14 1C
17 1C
18 1P
19 1L
2 1H
21 1H
B- O
4
3
H12
Hazard SW
G- B
G- Y
G- B
G- Y
G- B
G- Y
2 A
10 B
J31(A), J32(B)
Junction
Connector
16
21
Turn RH
Turn LH
C10
Combination Meter
30
3
2
P 2
Turn Signal Light LH
3
2
P 3
Turn Signal Light RH
4
3
Turn
R19
Rear Combination
Light LH
1
2
Turn
R21
Rear Combination
Light RH
W- B
W- B
W- B
W- B
BR
33
42
J20
Junction
Connector
B
B
J27
Junction
Connector
A
A
J38
Junction
Connector
W- B
W- B
W- B
W- B
BR
W- B
IG
ED
EA
BM
BL
IF

Turn Signal and Hazard Warning Light

Service Hints

T7 Turn Signal Flasher

4-Ground : Always approx. 12 volts
1-Ground : Approx. 12 volts with the ignition SW at ON position
7-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C10	35	J20	36	P3	33
C11	35	J27	36	R19	40
H12	35	J31 A	36	R21	40
J3 A	36	J32 B	36	T7	37
J4 B	36	J38	39		
J18	36	P2	33		

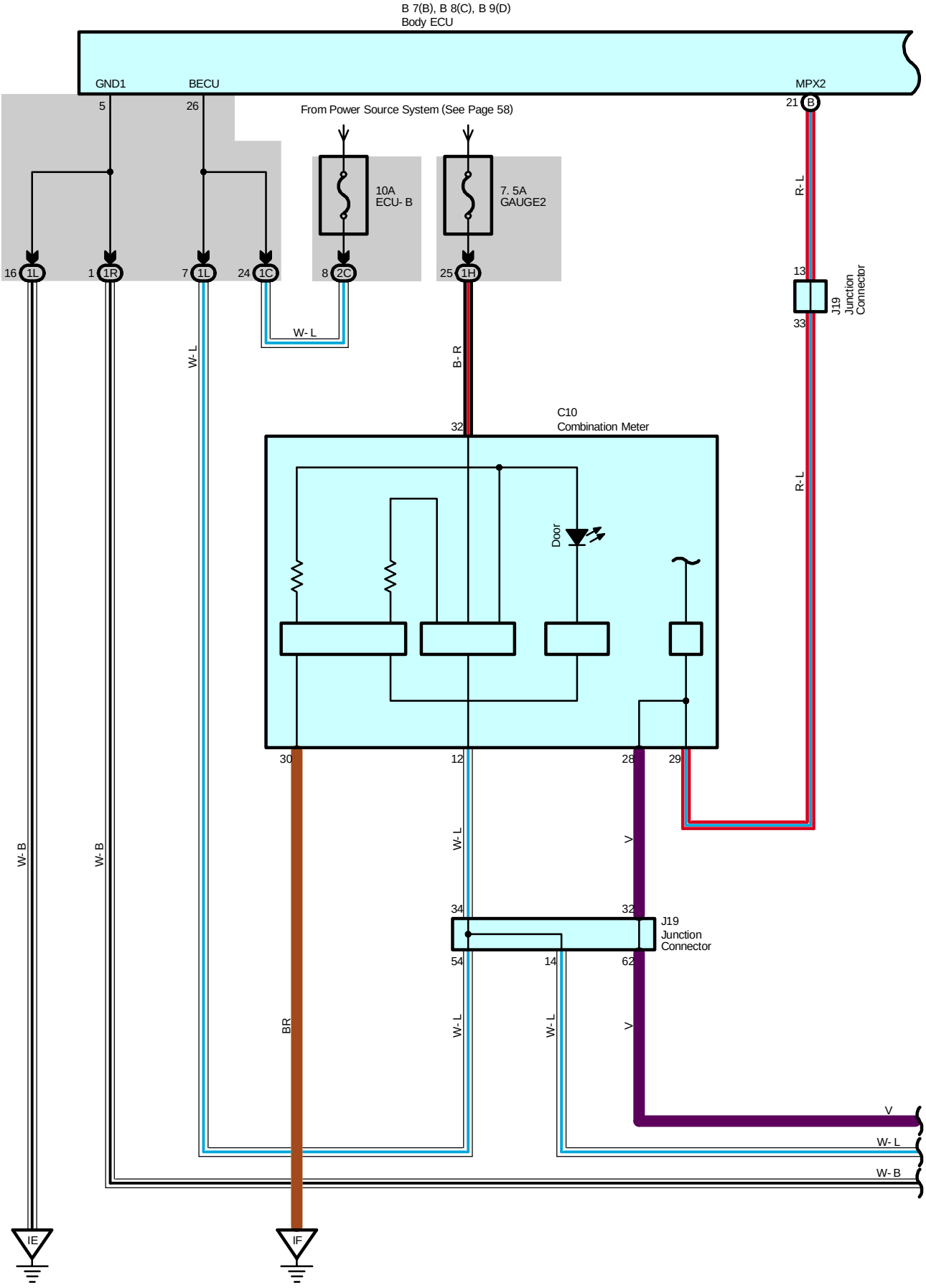
: Junction Block and Wire Harness Connector

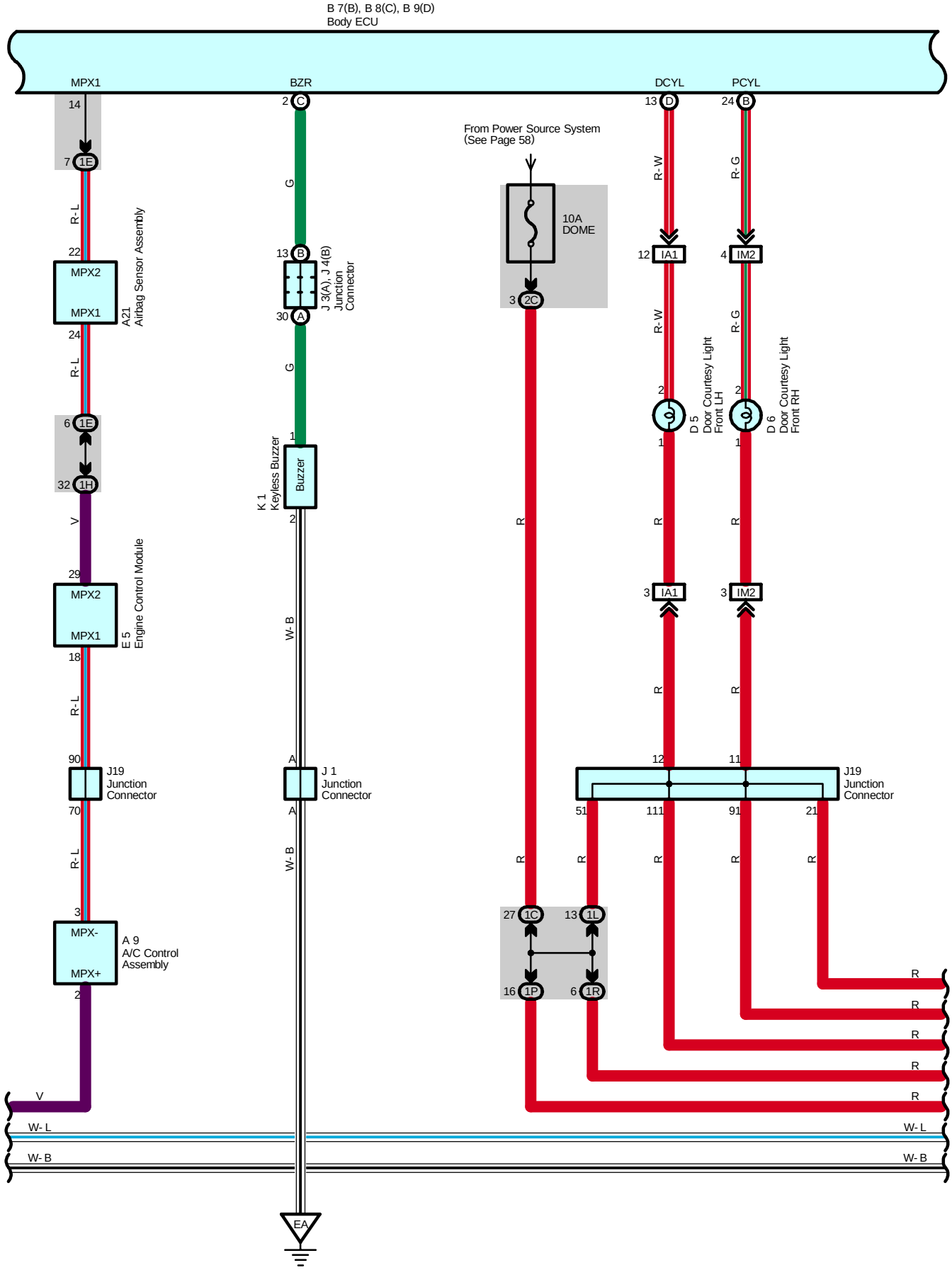
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L	27	
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
2A	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Ground Points

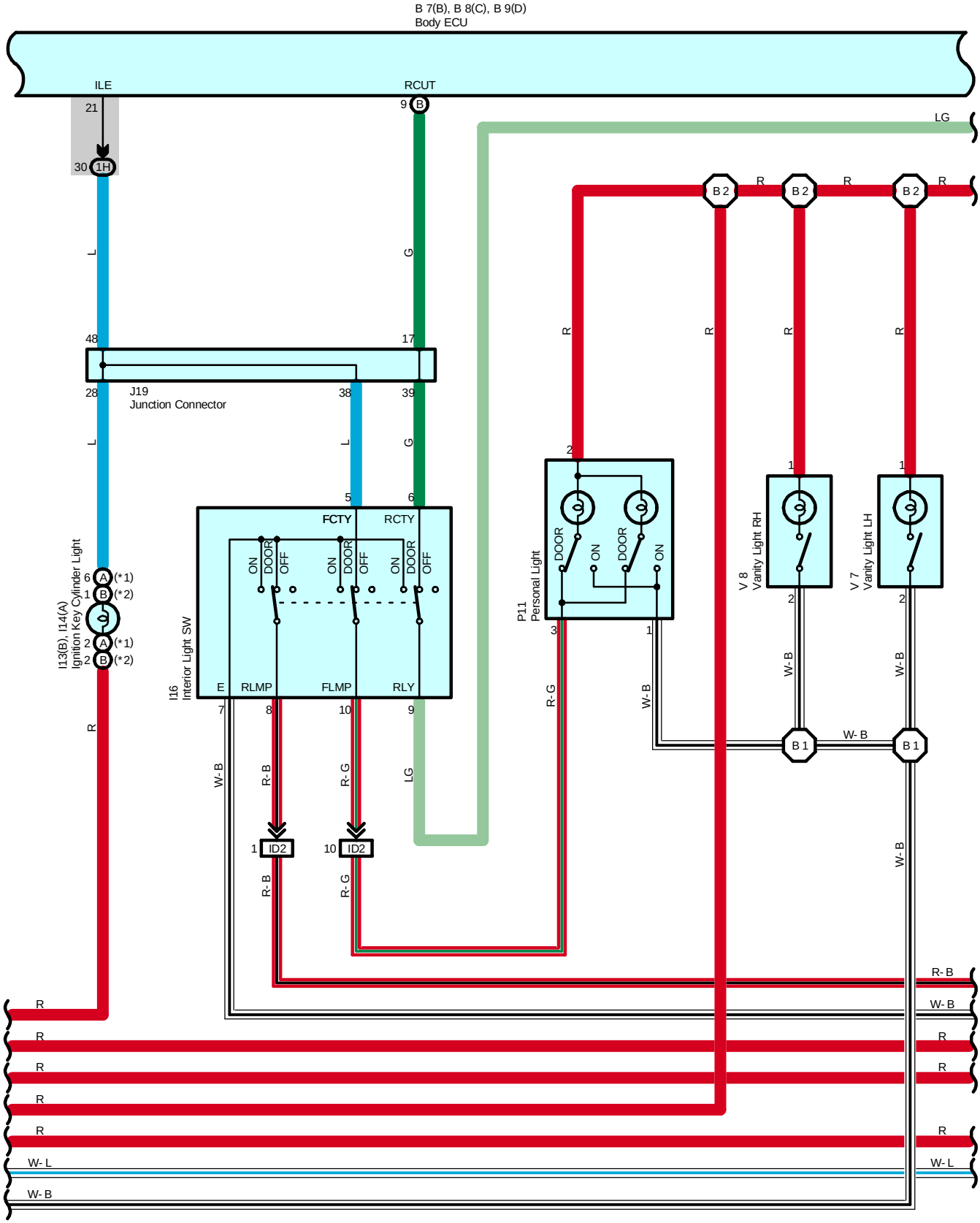
Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel
BL	50	Right Rear Quarter Panel
BM	50	Left Rear Quarter Panel

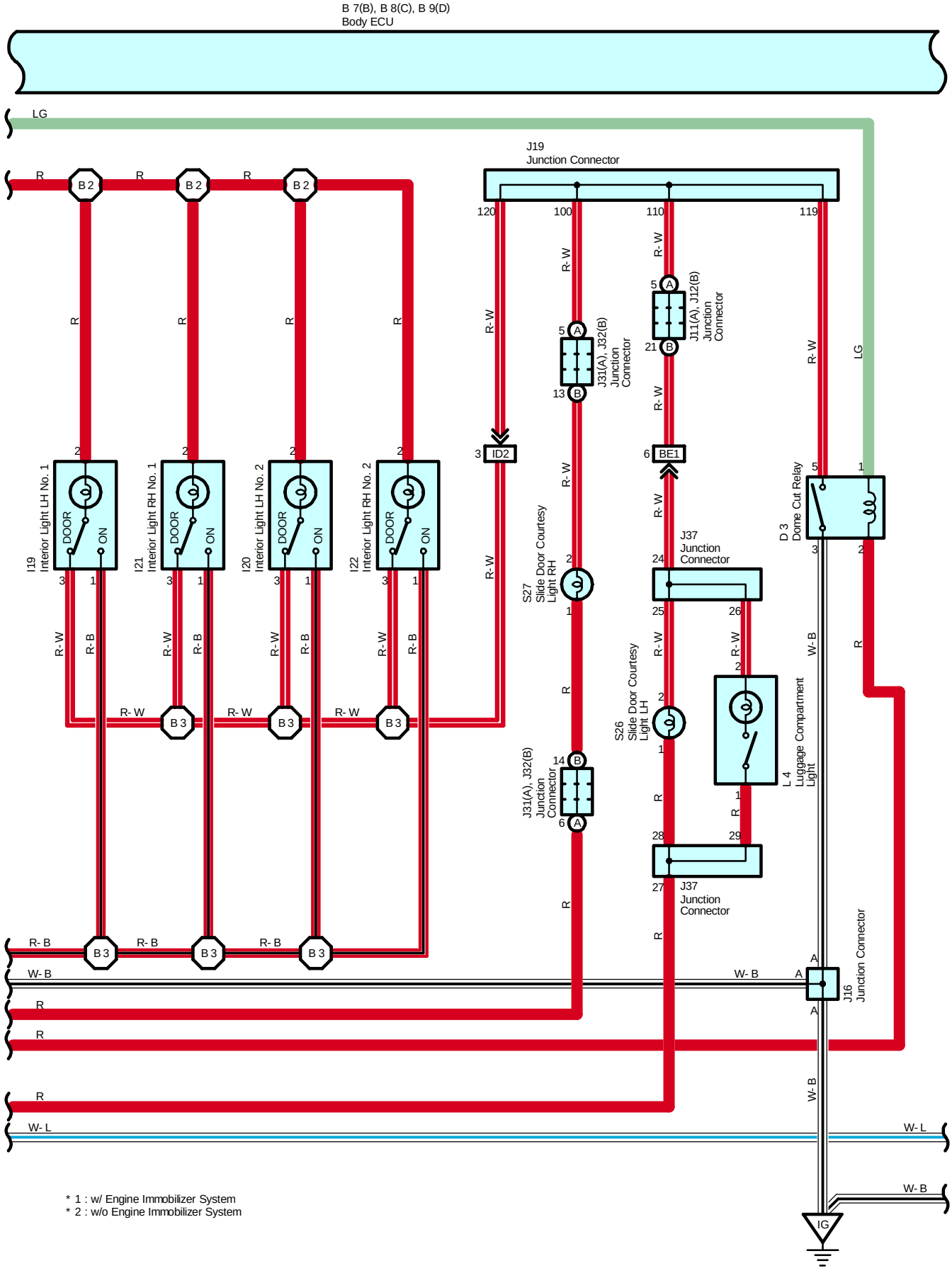
Interior Light

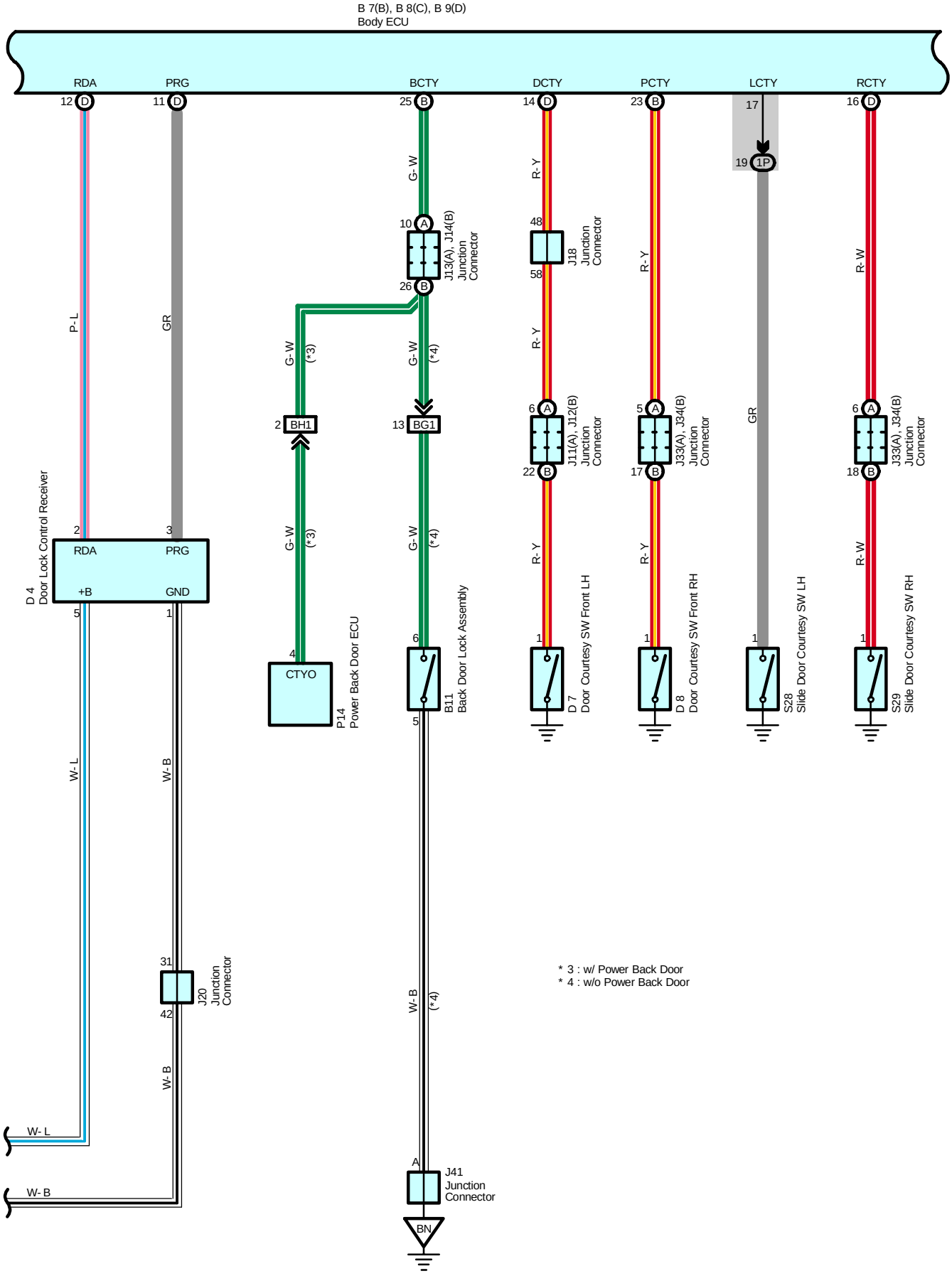


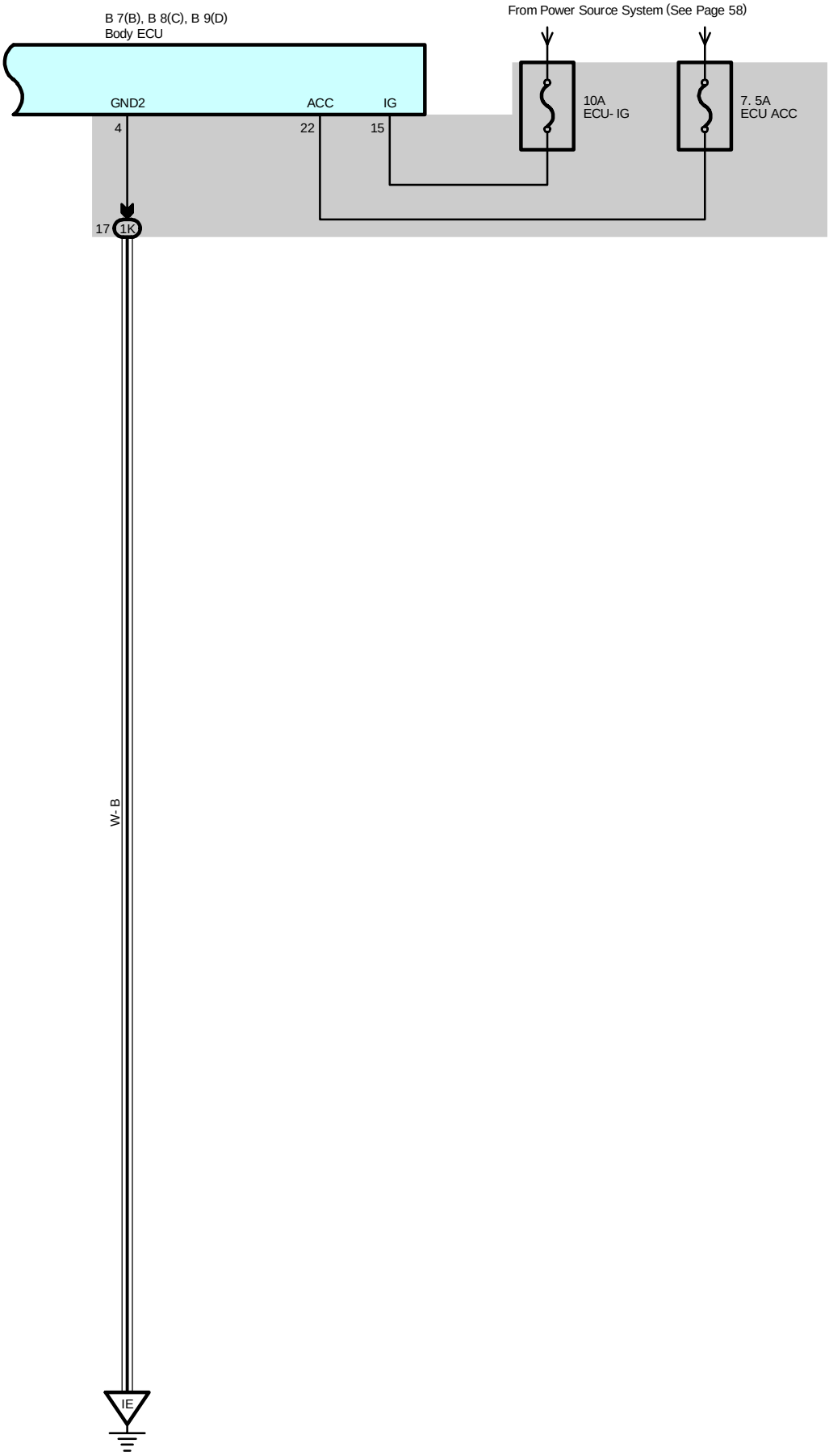

B 7(B), B 8(C), B 9(D)
Body ECU
MPX1
BZR
DCYL
PCYL
From Power Source System
(See Page 58)
10A
DOME
A21
Airbag Sensor Assembly
J 3(A), J 4(B)
Junction
Connector
K 1
Keyless Buzzer
Buzzer
D 5
Door Courtesy Light
Front LH
D 6
Door Courtesy Light
Front RH
E 5
Engine Control Module
J19
Junction
Connector
J 1
Junction
Connector
A 9
A/C Control
Assembly
MPX2
MPX1
MPX-
MPX+
IA1
IM2
EA

Interior Light




B 7(B), B 8(C), B 9(D)
Body ECU
LG
J19
Junction Connector
120
100
110
119
R
B 2
R- W
J11(A), J12(B)
Junction
Connector
J31(A), J32(B)
Junction
Connector
ID2
BE1
I19
Interior Light LH No. 1
I21
Interior Light RH No. 1
I20
Interior Light LH No. 2
I22
Interior Light RH No. 2
DOOR
ON
S27
Slide Door Courtesy
Light RH
S26
Slide Door Courtesy
Light LH
J37
Junction
Connector
D 3
Dome Cut Relay
L 4
Luggage Compartment
Light
R- B
B 3
W- B
J16
Junction Connector
W- L
IG
* 1 : w/ Engine Immobilizer System
* 2 : w/o Engine Immobilizer System


B 7(B), B 8(C), B 9(D)
Body ECU
RDA
PRG
BCTY
DCTY
PCTY
LCTY
RCTY
12 D
11 D
25 B
14 D
23 B
17
19 1P
16 D
P- L
GR
G- W
R- Y
R- W
10 A
26 B
J13(A), J14(B) Junction Connector
48
58
J18 Junction Connector
6 A
22 B
J11(A), J12(B) Junction Connector
5 A
17 B
J33(A), J34(B) Junction Connector
6 A
18 B
J33(A), J34(B) Junction Connector
2 BH1
13 BG1
(*3)
(*4)
4 CTYO
P14 Power Back Door ECU
6
5
B11 Back Door Lock Assembly
1
D 7 Door Courtesy SW Front LH
D 8 Door Courtesy SW Front RH
S28 Slide Door Courtesy SW LH
S29 Slide Door Courtesy SW RH
D 4 Door Lock Control Receiver
2 RDA
3 PRG
+B 5
GND 1
W- L
W- B
31
42
J20 Junction Connector
A
J41 Junction Connector
BN
* 3 : w/ Power Back Door
* 4 : w/o Power Back Door


B 7(B), B 8(C), B 9(D)
Body ECU
From Power Source System (See Page 58)
GND2
ACC
IG
4
22
15
10A
ECU- IG
7. 5A
ECU ACC
17
1K
W- B
IE

Interior Light

Service Hints

B7 (B), B9 (D) Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity
(D)14-Ground : Continuity with the front LH door open
(B)23-Ground : Continuity with the front RH door open

D7, D8 Door Courtesy SW Front LH, RH

1-Ground : Closed with the front LH, RH door open

S28, S29 Slide Door Courtesy SW LH, RH

1-Ground : Closed with the slide door open

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	I16	35	J31 A	36
A21	34	I19	38	J32 B	36
B7 B	34	I20	38	J33 A	36
B8 C	34	I21	38	J34 B	36
B9 D	34	I22	38	J37	39
B11	38	J1	33	J41	39
C10	35	J3 A	36	K1	33
D3	35	J4 B	36	L4	39
D4	35	J11 A	36	P11	39
D5	38	J12 B	36	P14	39
D6	38	J13 A	36	S26	40
D7	38	J14 B	36	S27	40
D8	38	J16	36	S28	40
E5	35	J18	36	S29	40
I13 B	35	J19	36	V7	41
I14 A	35	J20	36	V8	41

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

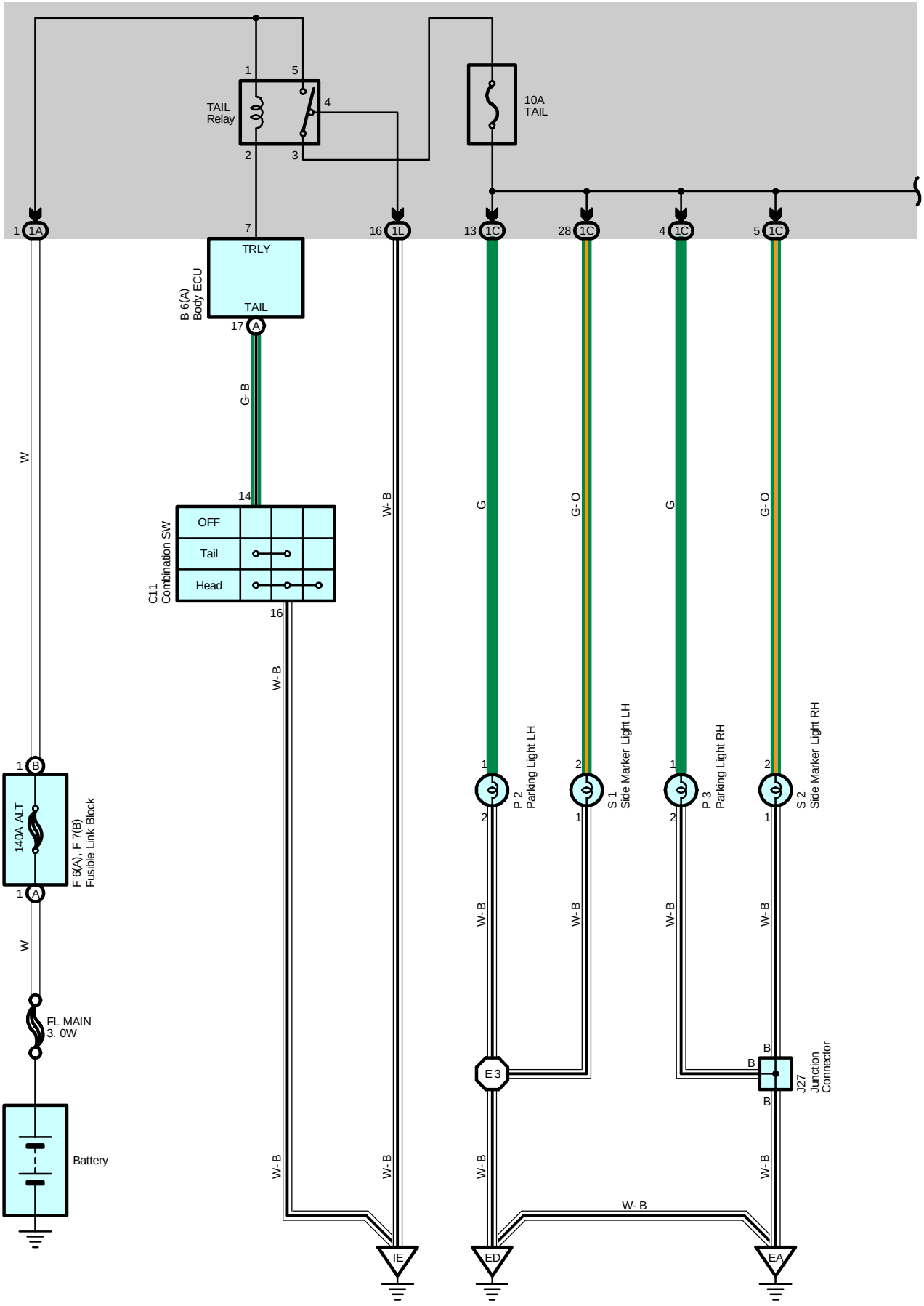
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
ID2	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
IM2	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BE1	50	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BH1	52	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)

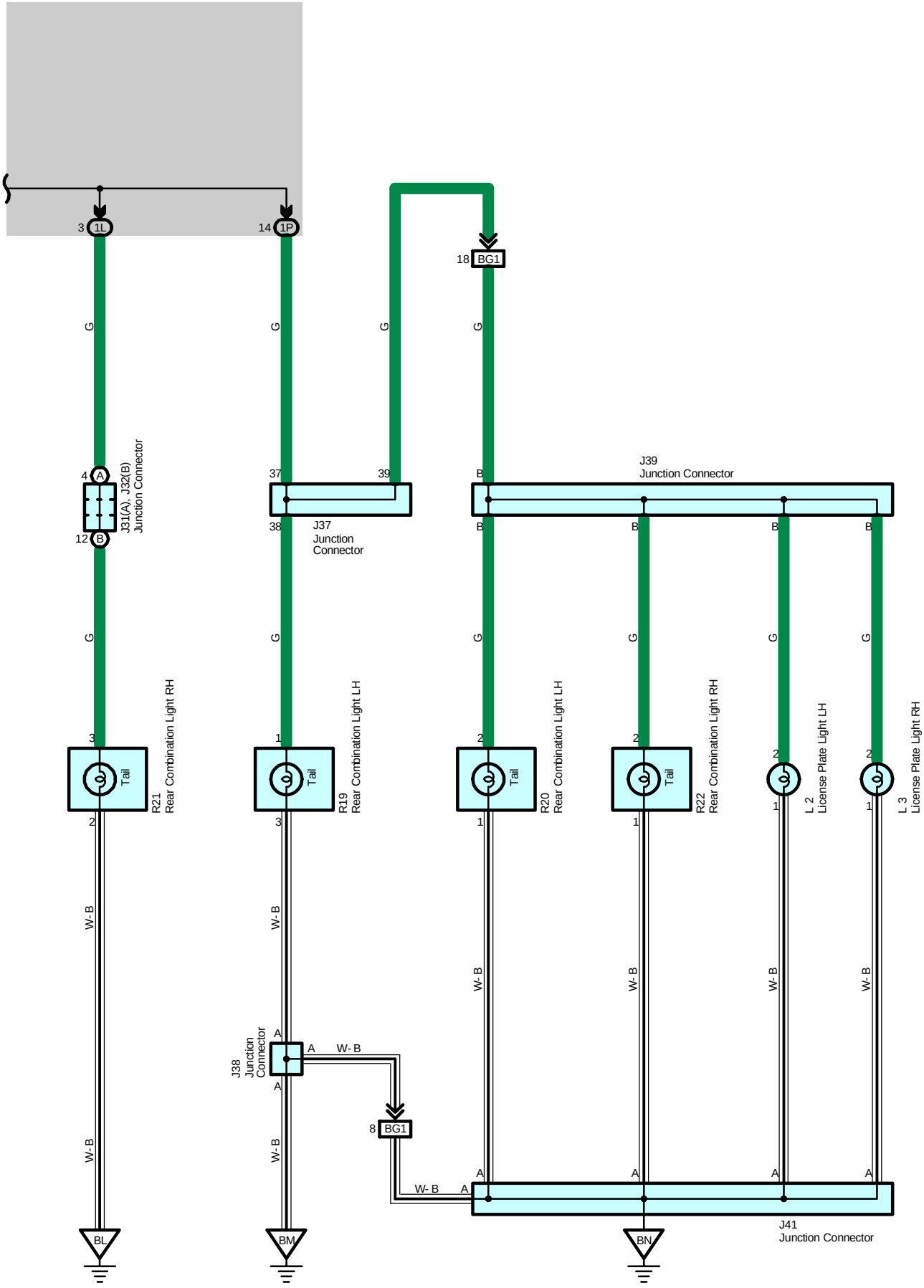
 **: Ground Points**

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel
BN	50	Left Side of the Back Door

 **: Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	52	Roof Wire	B3	52	Roof Wire
B2					


TAIL
Relay
1
5
4
2
3
10A
TAIL
1 1A
7
16 1L
13 1C
28 1C
4 1C
5 1C
TRLY
TAIL
B 6(A)
Body ECU
17 A
G- B
W
14
OFF
Tail
Head
C11
Combination SW
16
W- B
G
G- O
G
G- O
1 B
140A ALT
1 A
F 6(A), F 7(B)
Fusible Link Block
W
FL MAIN
3. 0W
Battery
P 2
Parking Light LH
S 1
Side Marker Light LH
P 3
Parking Light RH
S 2
Side Marker Light RH
E 3
J27
Junction
Connector
IE
ED
EA


3 1L
14 1P
18 BG1
G
4 A
12 B
J31(A), J32(B)
Junction Connector
37
38
39
J37
Junction
Connector
B
J39
Junction Connector
3
Tail
R21
Rear Combination Light RH
1
R19
Rear Combination Light LH
2
R20
Rear Combination Light LH
R22
Rear Combination Light RH
L 2
License Plate Light LH
L 3
License Plate Light RH
W- B
J38
Junction
Connector
A
8 BG1
J41
Junction Connector
BL
BM
BN

Taillight

Service Hints

C11 Combination SW

14-16 : Closed with the light control SW at TAIL or HEAD position

: Parts Location

Code		See Page	Code	See Page	Code	See Page
B6	A	34	J37	39	P3	33
C11		35	J38	39	R19	40
F6	A	32	J39	39	R20	40
F7	B	32	J41	39	R21	40
J27		36	L2	39	R22	40
J31	A	36	L3	39	S1	33
J32	B	36	P2	33	S2	33

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

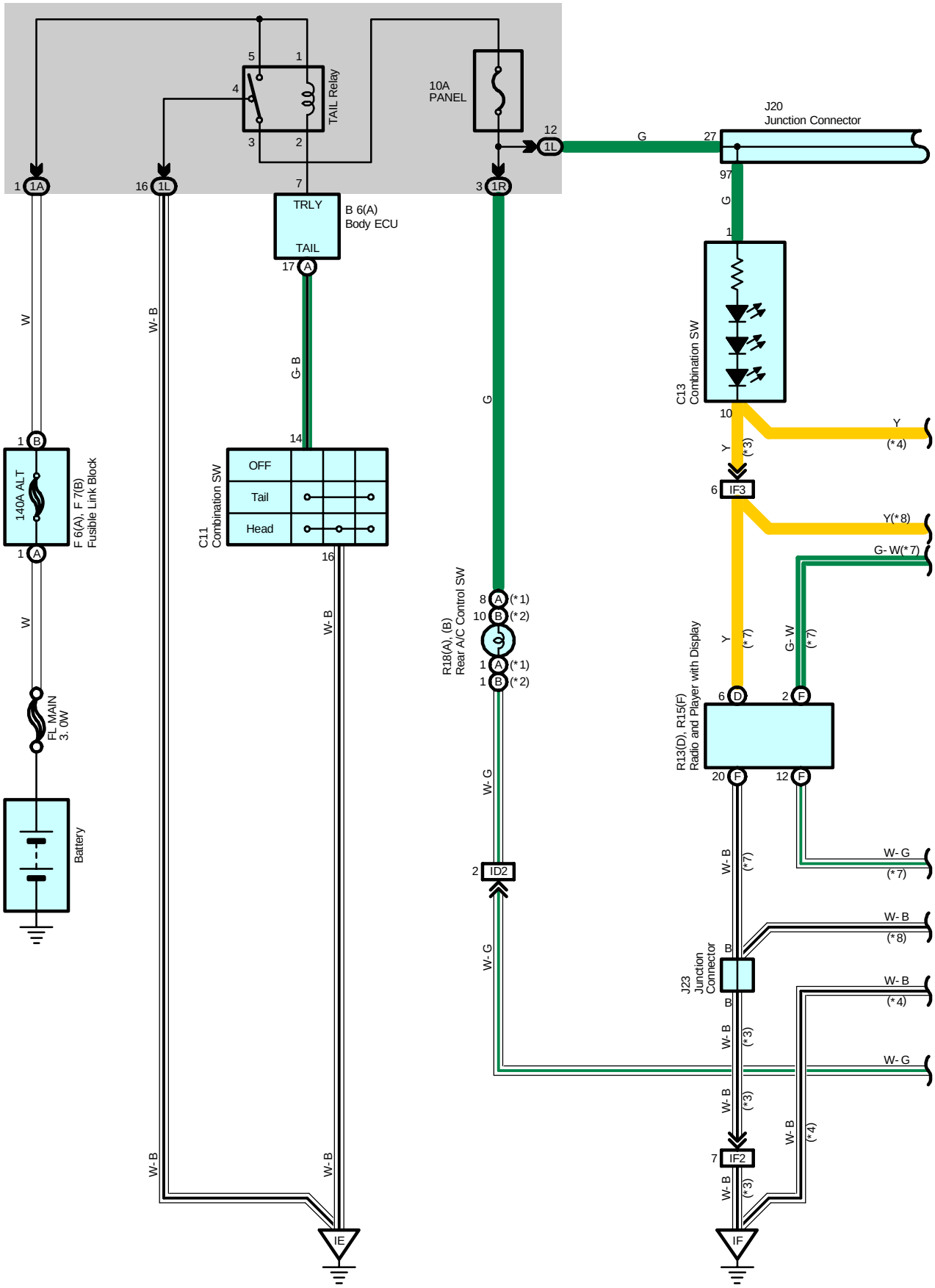
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)

: Ground Points

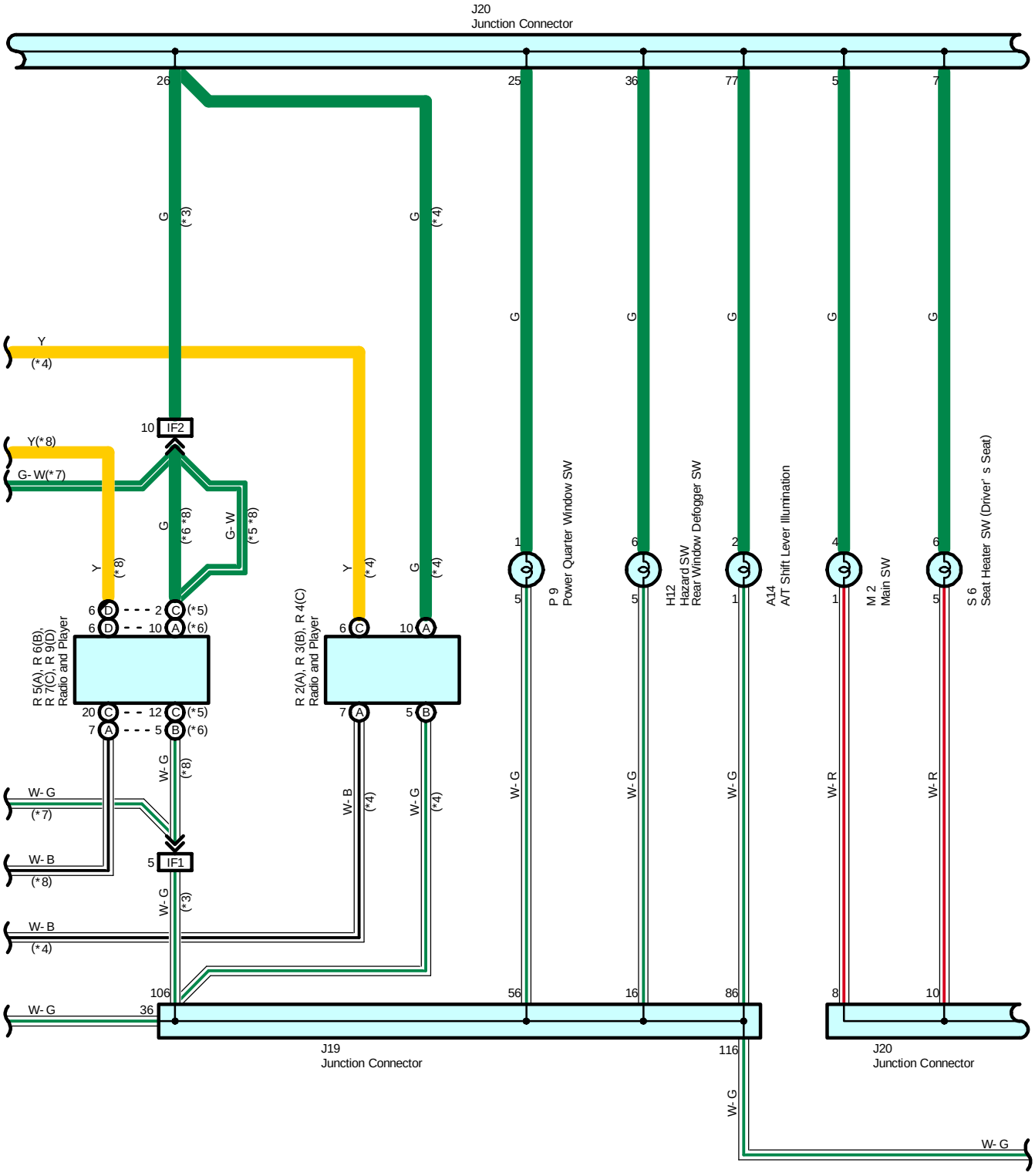
Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
BL	50	Right Rear Quarter Panel
BM	50	Left Rear Quarter Panel
BN	50	Left Side of the Back Door

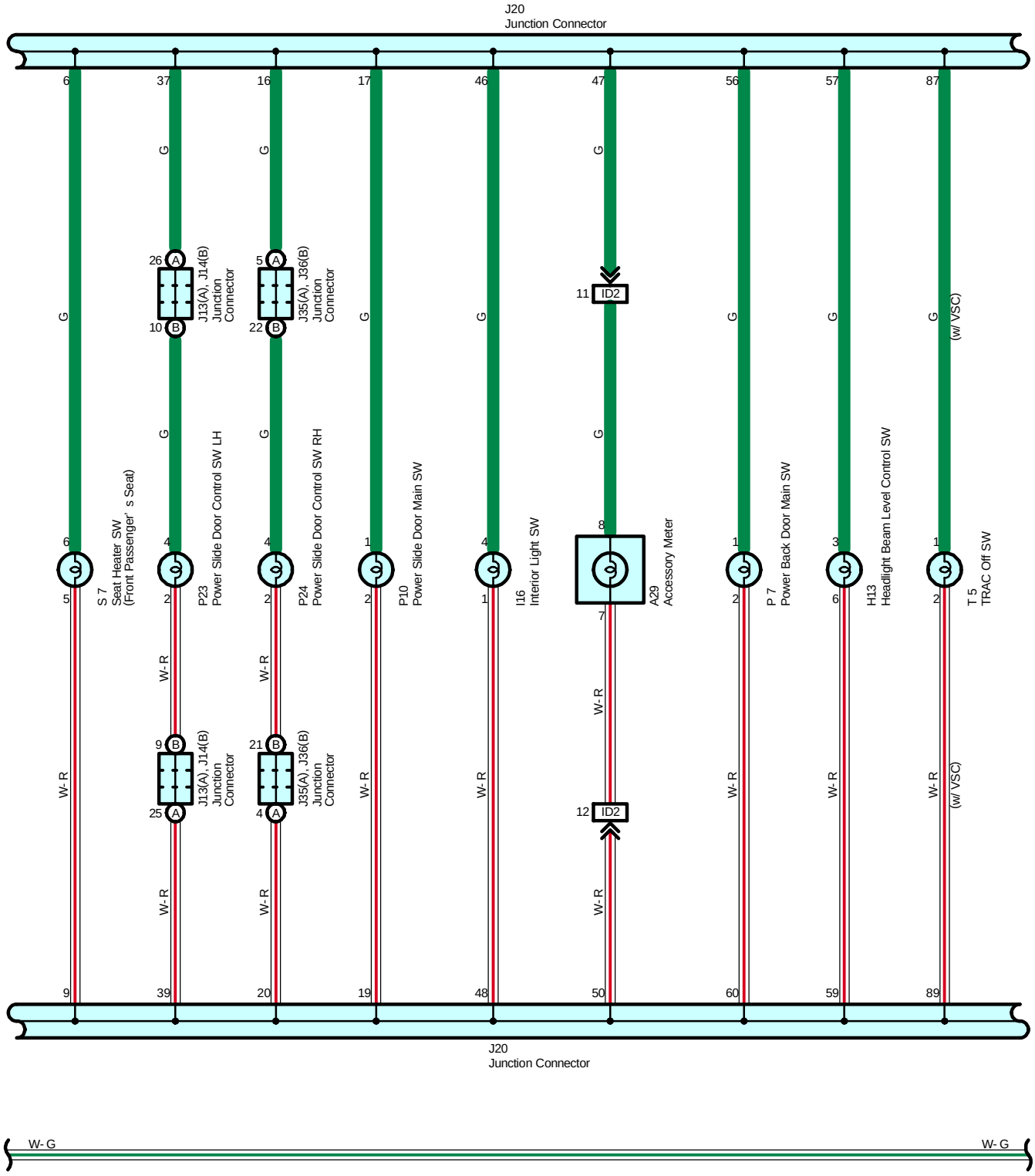
: Splice Points

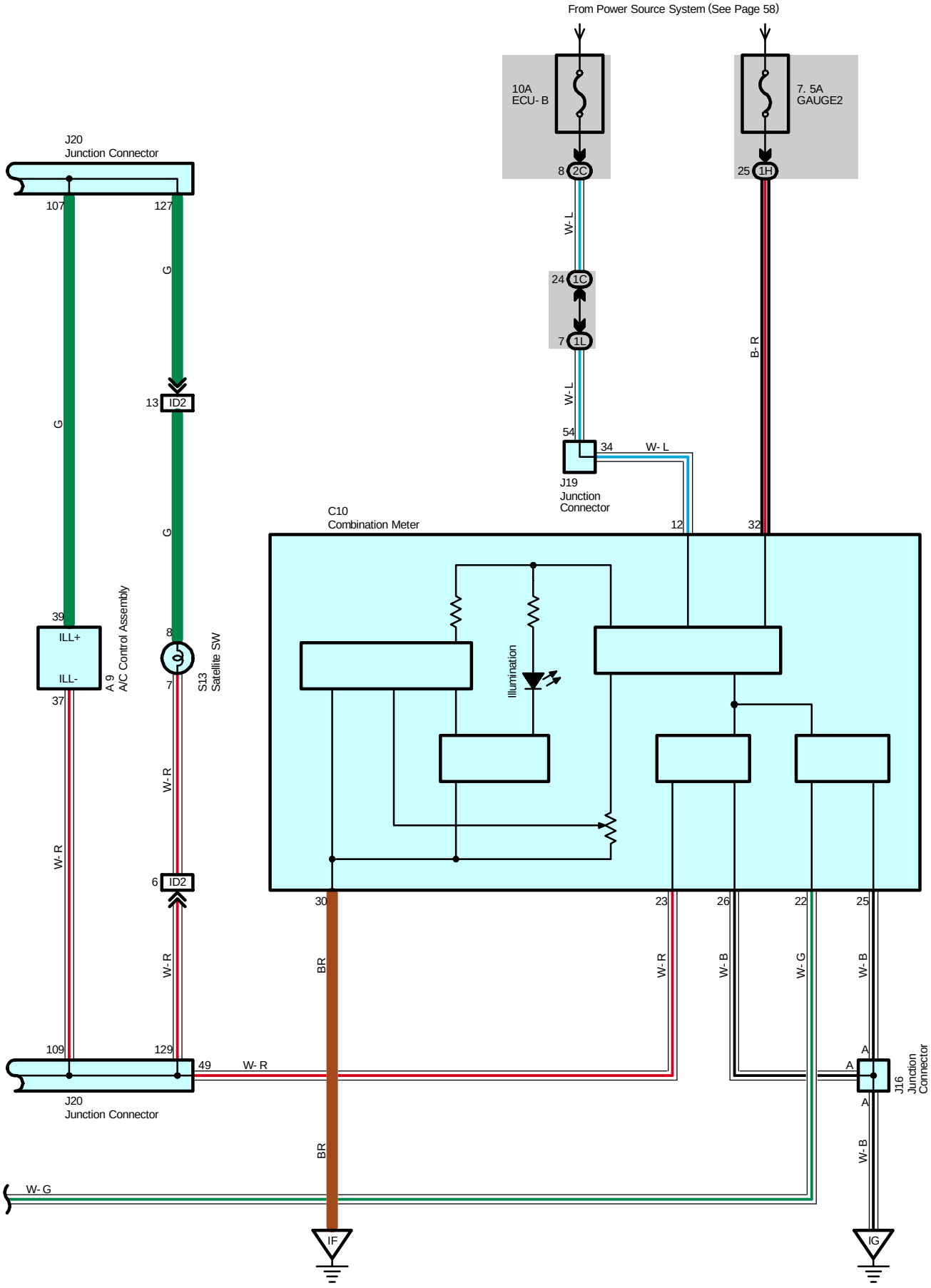
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E3	44	Engine Room Main Wire			


TAIL Relay
10A
PANEL
J20
Junction Connector
TRLY
TAIL
B 6(A)
Body ECU
C13
Combination SW
C11
Combination SW
OFF
Tail
Head
140A ALT
F 6(A), F 7(B)
Fusible Link Block
FL MAIN
3. 0W
Battery
R18(A), (B)
Rear A/C Control SW
R13(D), R15(F)
Radio and Player with Display
J23
Junction
Connector
IF3
IF2
ID2
IE
IF
W
W- B
G- B
G
Y
Y(*8)
G- W(*7)
W- G
W- B
(*1)
(*2)
(*3)
(*4)
(*7)
(*8)

* 1 : Automatic A/C
* 2 : Except * 1
* 3 : w/ Rear Seat Audio
* 4 : w/o Rear Seat Audio
* 5 : 10 Speaker
* 6 : 6 Speaker
* 7 : w/ Navigation System
* 8 : w/o Navigation System




J20
Junction Connector
6
37
16
17
46
47
56
57
87
G
26 A
10 B
J13(A), J14(B)
Junction
Connector
5 A
22 B
J35(A), J36(B)
Junction
Connector
11 ID2
(w/ VSC)
6
5
S 7
Seat Heater SW
(Front Passenger' s Seat)
4
2
P23
Power Slide Door Control SW LH
4
2
P24
Power Slide Door Control SW RH
1
2
P10
Power Slide Door Main SW
4
1
I16
Interior Light SW
8
7
A29
Accessory Meter
1
2
P 7
Power Back Door Main SW
3
6
H13
Headlight Beam Level Control SW
1
2
T 5
TRAC Off SW
W- R
9 B
25 A
4 A
21 B
12 ID2
9
39
20
19
48
50
60
59
89
J20
Junction Connector
W- G
W- G


From Power Source System (See Page 58)
10A
ECU- B
7. 5A
GAUGE2
8
2C
25
1H
W- L
24
1C
7
1L
B- R
W- L
54
34
W- L
J19
Junction
Connector
C10
Combination Meter
12
32
J20
Junction Connector
107
127
G
G
13
ID2
G
G
39
ILL+
ILL-
37
A 9
A/C Control Assembly
8
7
S13
Satellite SW
W- R
W- R
6
ID2
W- R
30
23
26
22
25
BR
W- R
W- B
W- G
W- B
109
129
49
W- R
A
A
J16
Junction
Connector
A
J20
Junction Connector
BR
W- B
W- G
IF
IG
Illumination

Illumination

Service Hints

C11 Combination SW

14-16 : Closed with the light control SW at TAIL or HEAD position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	J16	36	R4 C	37
A14	34	J19	36	R5 A	37
A29	38	J20	36	R6 B	37
B6 A	34	J23	36	R7 C	37
C10	35	J35 A	36	R9 D	37
C11	35	J36 B	36	R13 D	37
C13	35	M2	36	R15 F	37
F6 A	32	P7	37	R18 A	40
F7 B	32	P9	37	R18 B	40
H12	35	P10	37	S6	37
H13	35	P23	39	S7	37
I16	35	P24	39	S13	40
J13 A	36	R2 A	37	T5	37
J14 B	36	R3 B	37		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L	27	
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

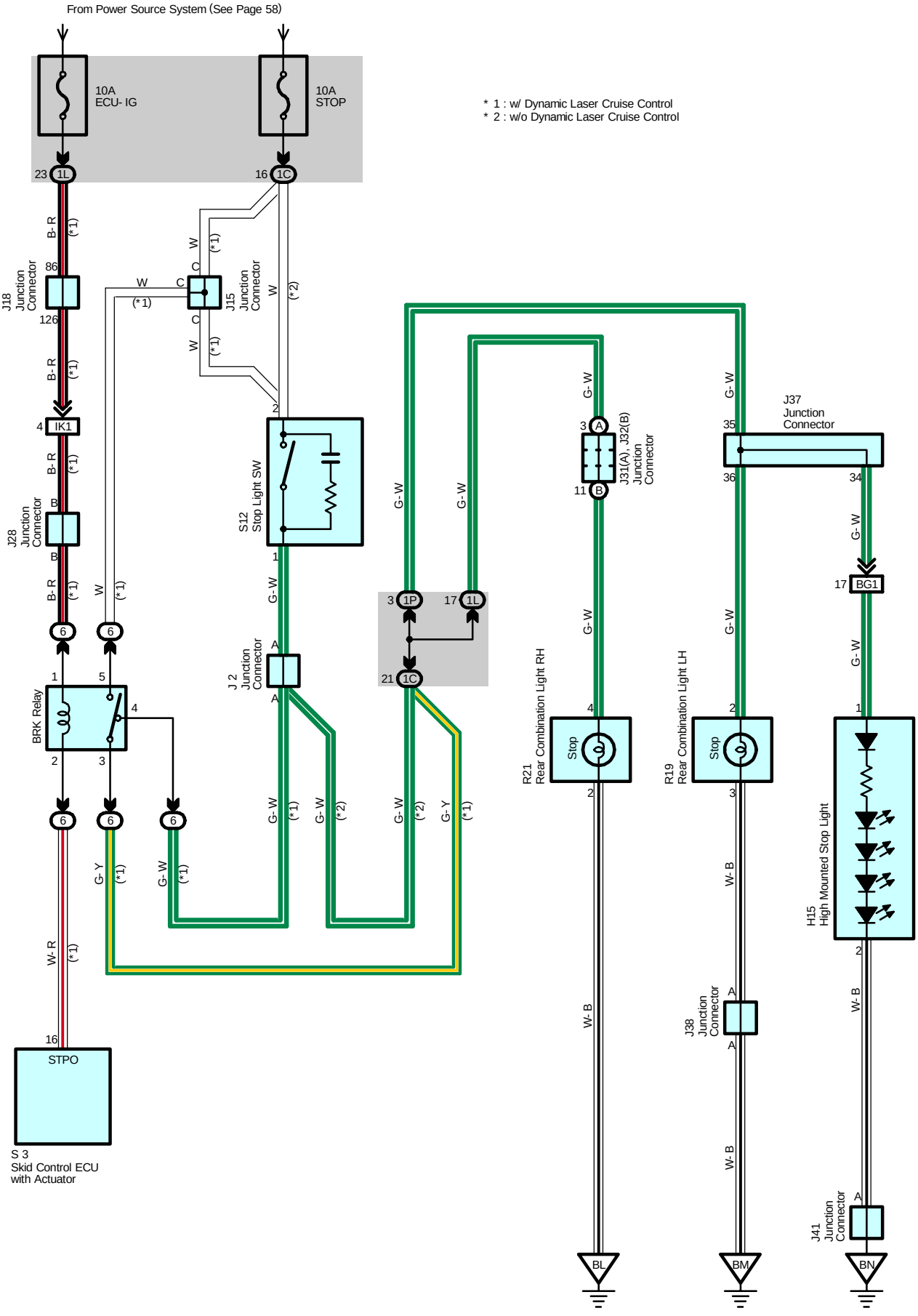
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
IF1	46	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
IF2		
IF3		

: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel

Stop Light


From Power Source System (See Page 58)
10A
ECU- IG
10A
STOP
* 1 : w/ Dynamic Laser Cruise Control
* 2 : w/o Dynamic Laser Cruise Control
J18
Junction
Connector
J15
Junction
Connector
J28
Junction
Connector
J 2
Junction
Connector
S12
Stop Light SW
BRK Relay
J37
Junction
Connector
J31(A), J32(B)
Junction
Connector
R21
Rear Combination Light RH
R19
Rear Combination Light LH
H15
High Mounted Stop Light
J38
Junction
Connector
J41
Junction
Connector
Stop
STPO
S 3
Skid Control ECU
with Actuator
BL
BM
BN

Service Hints

S12 Stop Light SW

2-1 : Closed with brake pedal depressed

: Parts Location

Code	See Page	Code		See Page	Code	See Page
H15	38	J31	A	36	R19	40
J2	33	J32	B	36	R21	40
J15	36	J37		39	S3	33
J18	36	J38		39	S12	37
J28	36	J41		39		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
6	25	R/B No.6 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

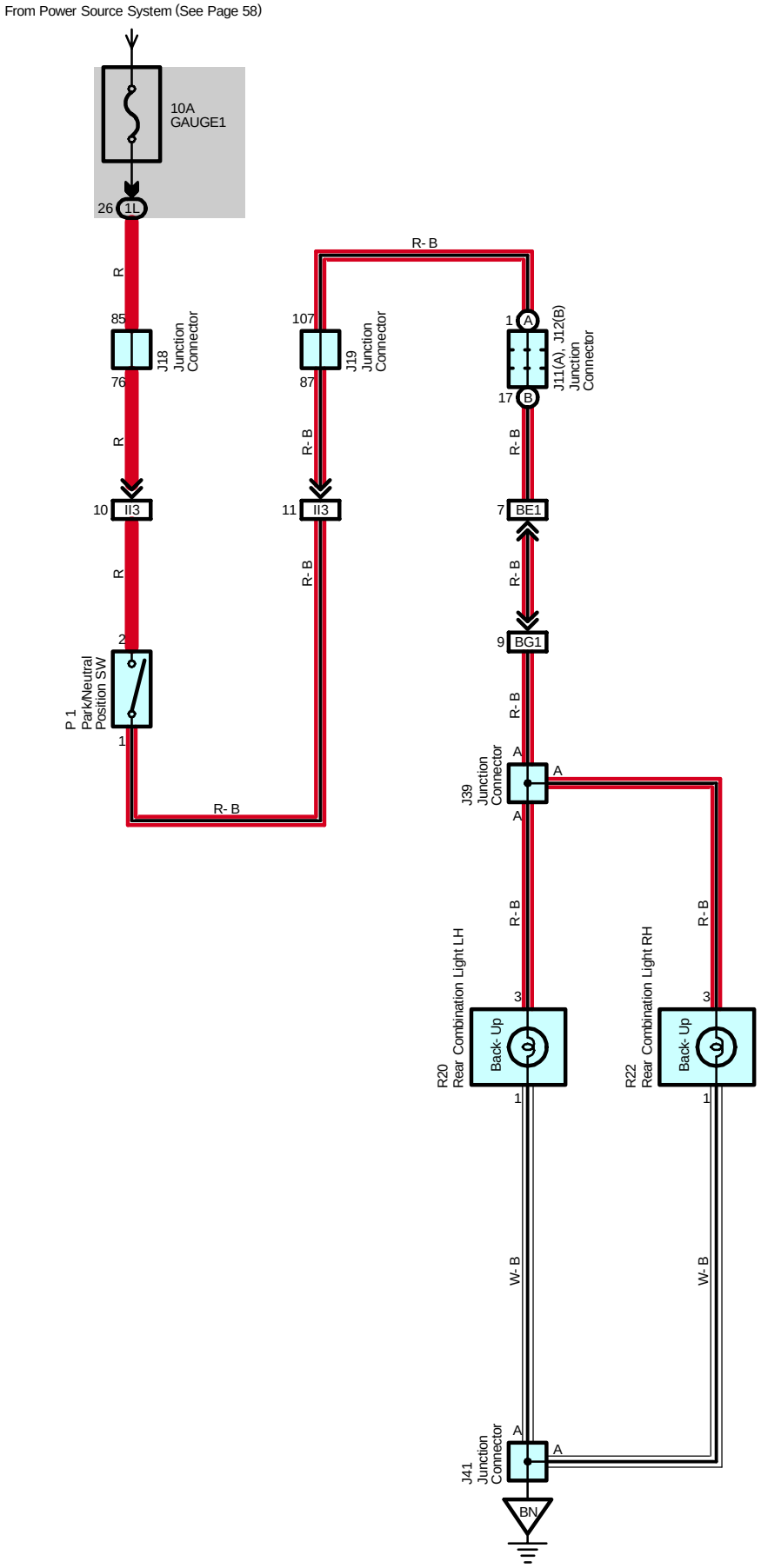
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IK1	48	Engine Room Main Wire and Instrument Panel Wire (Right Kick Panel)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
BL	50	Right Rear Quarter Panel
BM	50	Left Rear Quarter Panel
BN	50	Left Side of the Back Door


From Power Source System (See Page 58)
10A
GAUGE1
26 1L
R
85
J18
Junction
Connector
76
R
10 II3
R
2
P 1
Park/Neutral
Position SW
1
R- B
107
J19
Junction
Connector
87
R- B
11 II3
R- B
R- B
1 A
J11(A), J12(B)
Junction
Connector
17 B
R- B
7 BE1
R- B
9 BG1
R- B
A
J39
Junction
Connector
A
R- B
R- B
3
R20
Rear Combination Light LH
Back- Up
1
3
R22
Rear Combination Light RH
Back- Up
1
W- B
W- B
A
J41
Junction
Connector
A
BN

Service Hints

P1 Park/Neutral Position SW

2-1 : Closed with the shift lever at R position

: Parts Location

Code		See Page	Code	See Page	Code	See Page
J11	A	36	J19	36	P1	33
J12	B	36	J39	39	R20	40
J18		36	J41	39	R22	40

: Junction Block and Wire Harness Connector

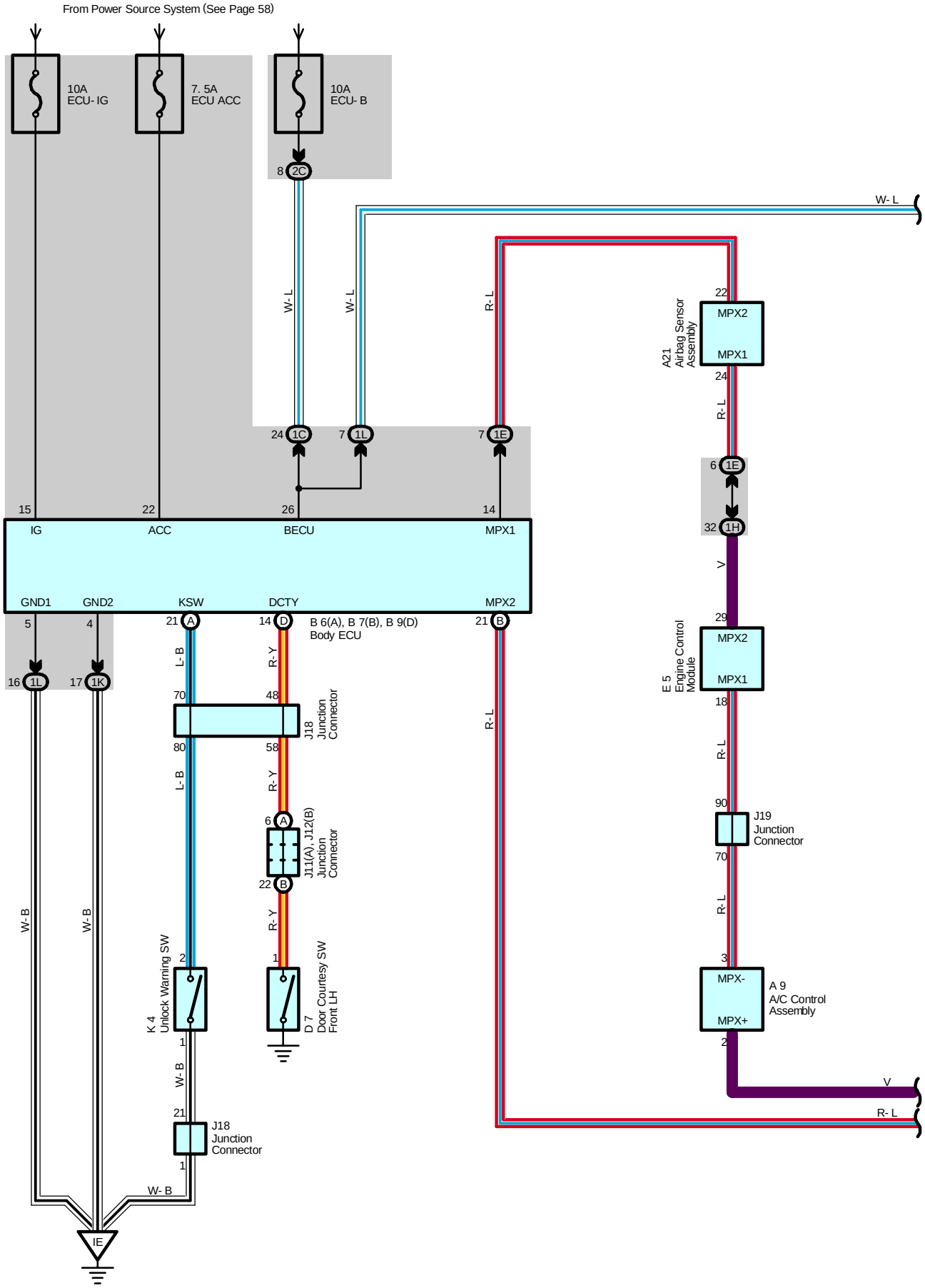
Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

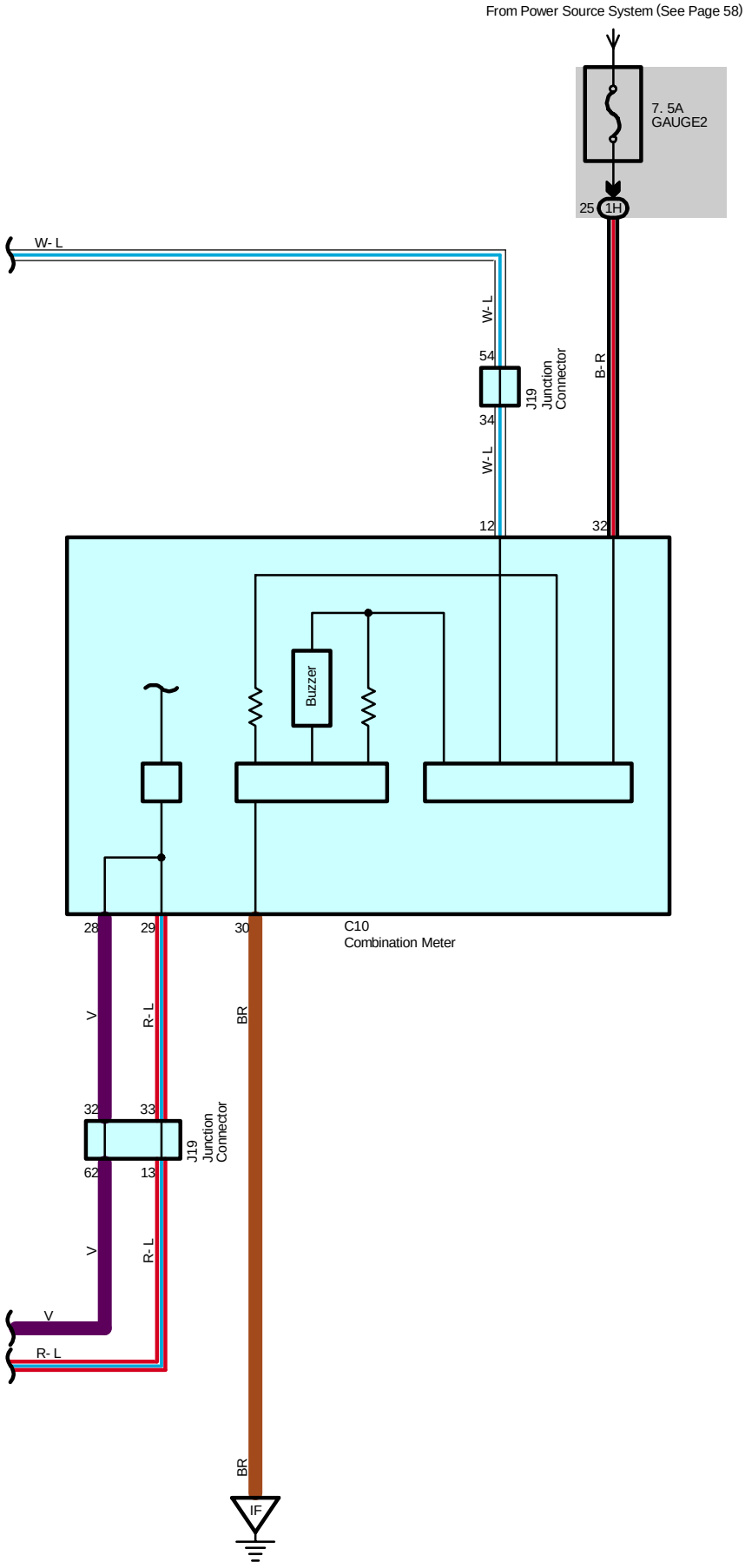
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
BE1	50	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
BN	50	Left Side of the Back Door


From Power Source System (See Page 58)
10A
ECU- IG
7. 5A
ECU ACC
10A
ECU- B
8 2C
W- L
W- L
R- L
W- L
22
MPX2
MPX1
A21
Airbag Sensor
Assembly
24
R- L
24 1C
7 1L
7 1E
6 1E
32 1H
V
15
IG
22
ACC
26
BECU
14
MPX1
GND1
GND2
KSW
DCTY
MPX2
5
4
21 A
14 D
B 6(A), B 7(B), B 9(D)
Body ECU
21 B
29
MPX2
MPX1
E 5
Engine Control
Module
16 1L
17 1K
L- B
R- Y
70
48
J18
Junction
Connector
80
58
L- B
R- Y
R- L
18
R- L
90
J19
Junction
Connector
6 A
J11(A), J12(B)
Junction
Connector
22 B
70
R- L
W- B
W- B
R- Y
2
1
3
MPX-
MPX+
A 9
A/C Control
Assembly
K 4
Unlock Warning SW
D 7
Door Courtesy SW
Front LH
2
V
1
W- B
R- L
21
J18
Junction
Connector
1
W- B
IE


From Power Source System (See Page 58)
7. 5A
GAUGE2
25
1H
W- L
W- L
54
J19
Junction
Connector
34
W- L
B- R
12
32
Buzzer
28
29
30
C10
Combination Meter
V
R- L
BR
32
33
J19
Junction
Connector
62
13
V
R- L
V
R- L
BR
IF

Key Reminder

Service Hints

B6 (A), B9 (D) Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity
(D)14-Ground : Continuity with the front LH door open
(A)21-Ground : Continuity with the ignition key in cylinder

D7 Door Courtesy SW Front LH

1-Ground : Closed with the front LH door open

K4 Unlock Warning SW

1-2 : Closed with the ignition key in cylinder

: Parts Location

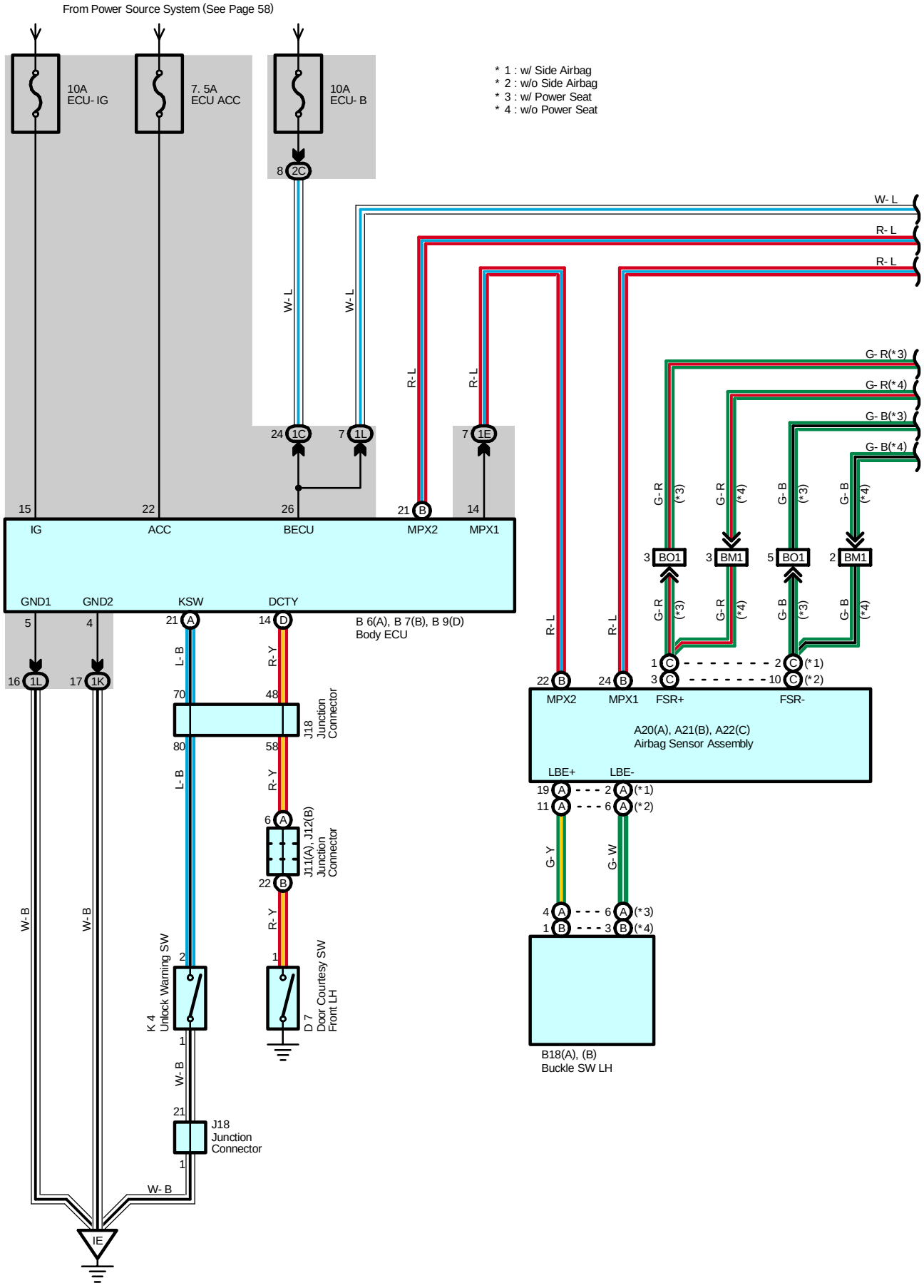
Code		See Page	Code		See Page	Code	See Page
A9		34	C10		35	J18	36
A21		34	D7		38	J19	36
B6	A	34	E5		35	K4	36
B7	B	34	J11	A	36		
B9	D	34	J12	B	36		

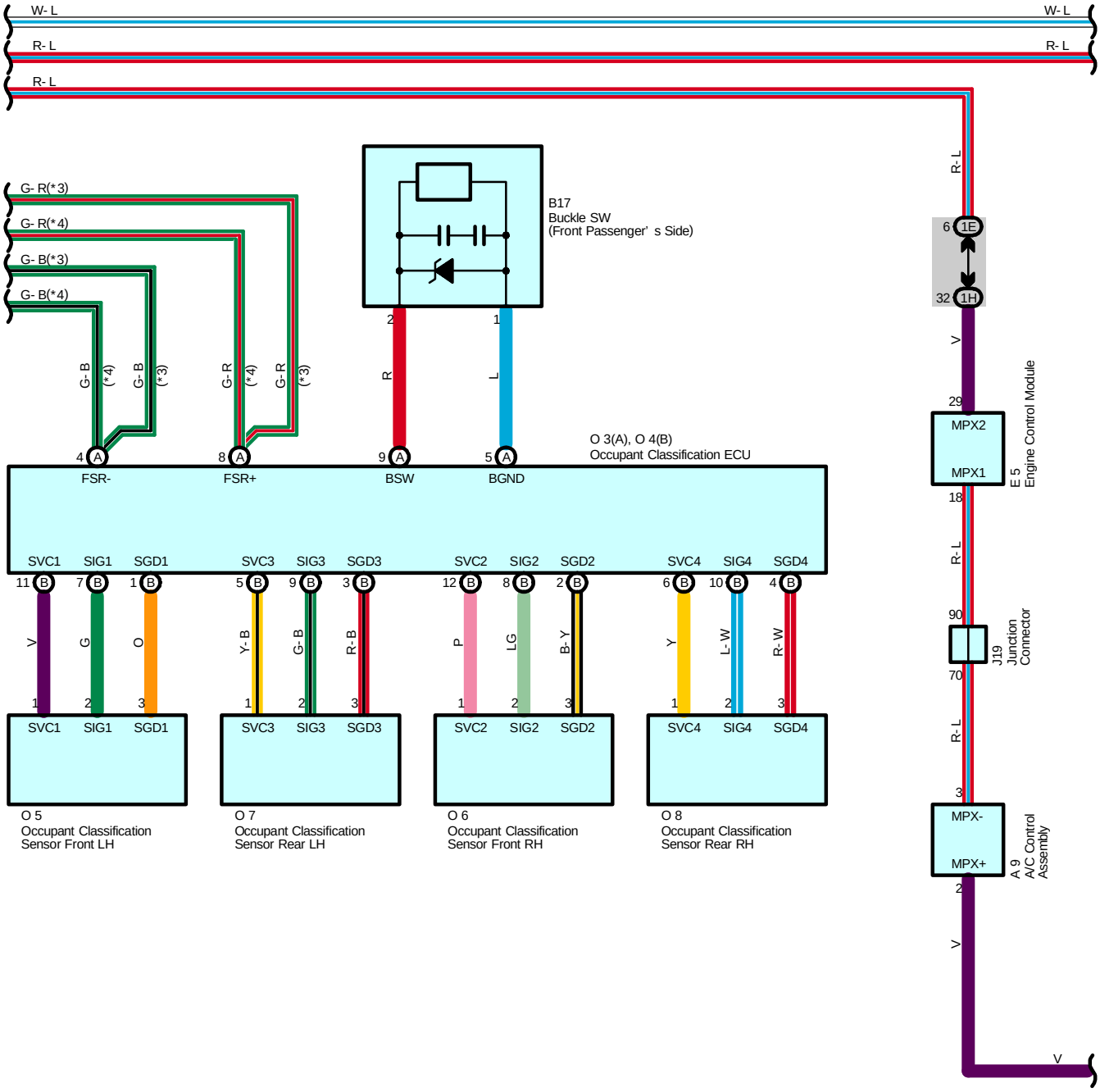
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

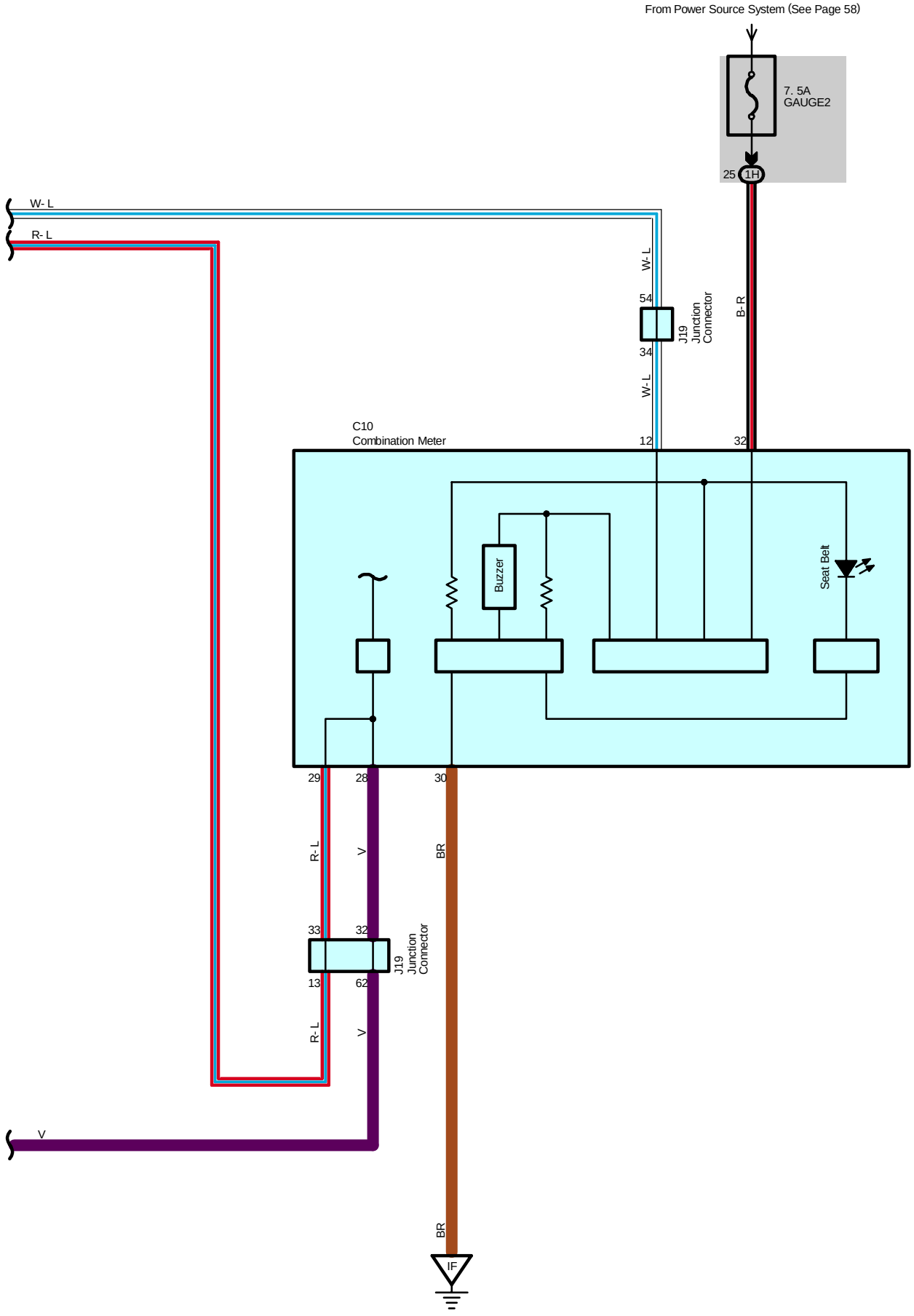
: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH


From Power Source System (See Page 58)
10A
ECU- IG
7. 5A
ECU ACC
10A
ECU- B
* 1 : w/ Side Airbag
* 2 : w/o Side Airbag
* 3 : w/ Power Seat
* 4 : w/o Power Seat
W- L
R- L
R- L
G- R(*3)
G- R(*4)
G- B(*3)
G- B(*4)
IG
ACC
BECU
MPX2
MPX1
GND1
GND2
KSW
DCTY
B 6(A), B 7(B), B 9(D)
Body ECU
J18
Junction
Connector
J11(A), J12(B)
Junction
Connector
K 4
Unlock Warning SW
D 7
Door Courtesy SW
Front LH
J18
Junction
Connector
IE
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
FSR+
FSR-
LBE+
LBE-
B18(A), (B)
Buckle SW LH


W- L
R- L
R- L
W- L
R- L
G- R(*3)
G- R(*4)
G- B(*3)
G- B(*4)
G- B (*4)
G- B (*3)
G- R (*4)
G- R (*3)
B17
Buckle SW
(Front Passenger' s Side)
2
1
R
L
6 1E
32 1H
V
29
MPX2
MPX1
E 5
Engine Control Module
18
R- L
90
J19
Junction Connector
70
R- L
3
MPX-
MPX+
A 9
A/C Control Assembly
2
V
V
4 A
8 A
9 A
5 A
FSR-
FSR+
BSW
BGND
O 3(A), O 4(B)
Occupant Classification ECU
SVC1 SIG1 SGD1
SVC3 SIG3 SGD3
SVC2 SIG2 SGD2
SVC4 SIG4 SGD4
11 B 7 B 1 B
5 B 9 B 3 B
12 B 8 B 2 B
6 B 10 B 4 B
V
G
O
Y- B
G- B
R- B
P
LG
B- Y
Y
L- W
R- W
1 2 3
SVC1 SIG1 SGD1
SVC3 SIG3 SGD3
SVC2 SIG2 SGD2
SVC4 SIG4 SGD4
O 5
Occupant Classification
Sensor Front LH
O 7
Occupant Classification
Sensor Rear LH
O 6
Occupant Classification
Sensor Front RH
O 8
Occupant Classification
Sensor Rear RH

Seat Belt Warning



Service Hints

Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity

D7 Door Courtesy SW Front LH

1-Ground : Closed with the front LH door open

K4 Unlock Warning SW

1-2 : Closed with the ignition key in cylinder

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A9		34	C10		35	O4	B	43 (*2)
A20	A	34	D7		38	O5		42 (*1)
A21	B	34	E5		35			43 (*2)
A22	C	34	J11	A	36	O6		42 (*1)
B6	A	34	J12	B	36			43 (*2)
B7	B	34	J18		36	O7		42 (*1)
B9	D	34	J19		36			43 (*2)
B17		42 (*1)	K4		36	O8		42 (*1)
		43 (*2)	O3	A	42 (*1)			43 (*2)
B18	A	42 (*1)			43 (*2)			
	B	43 (*2)	O4	B	42 (*1)			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

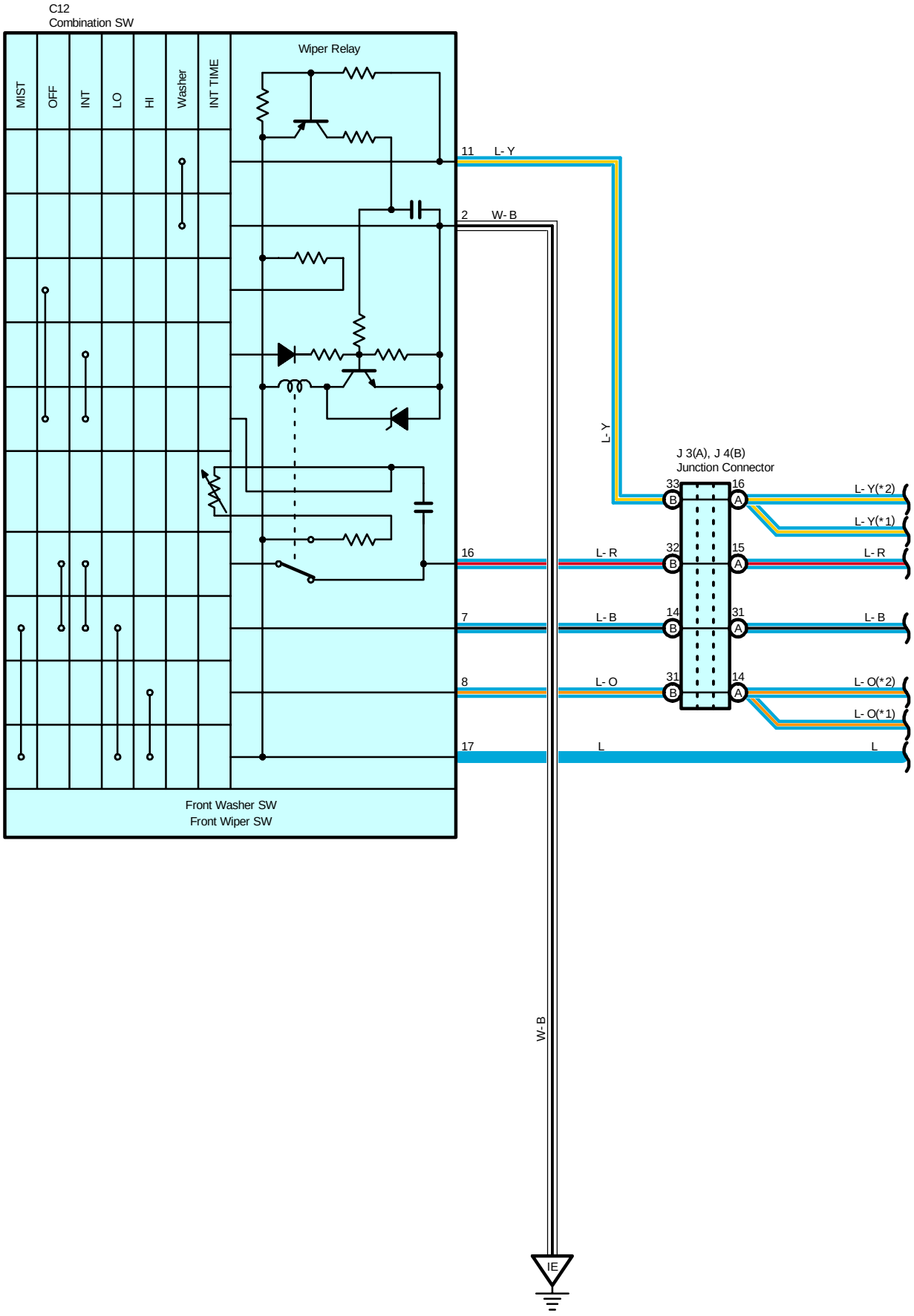
: Connector Joining Wire Harness and Wire Harness

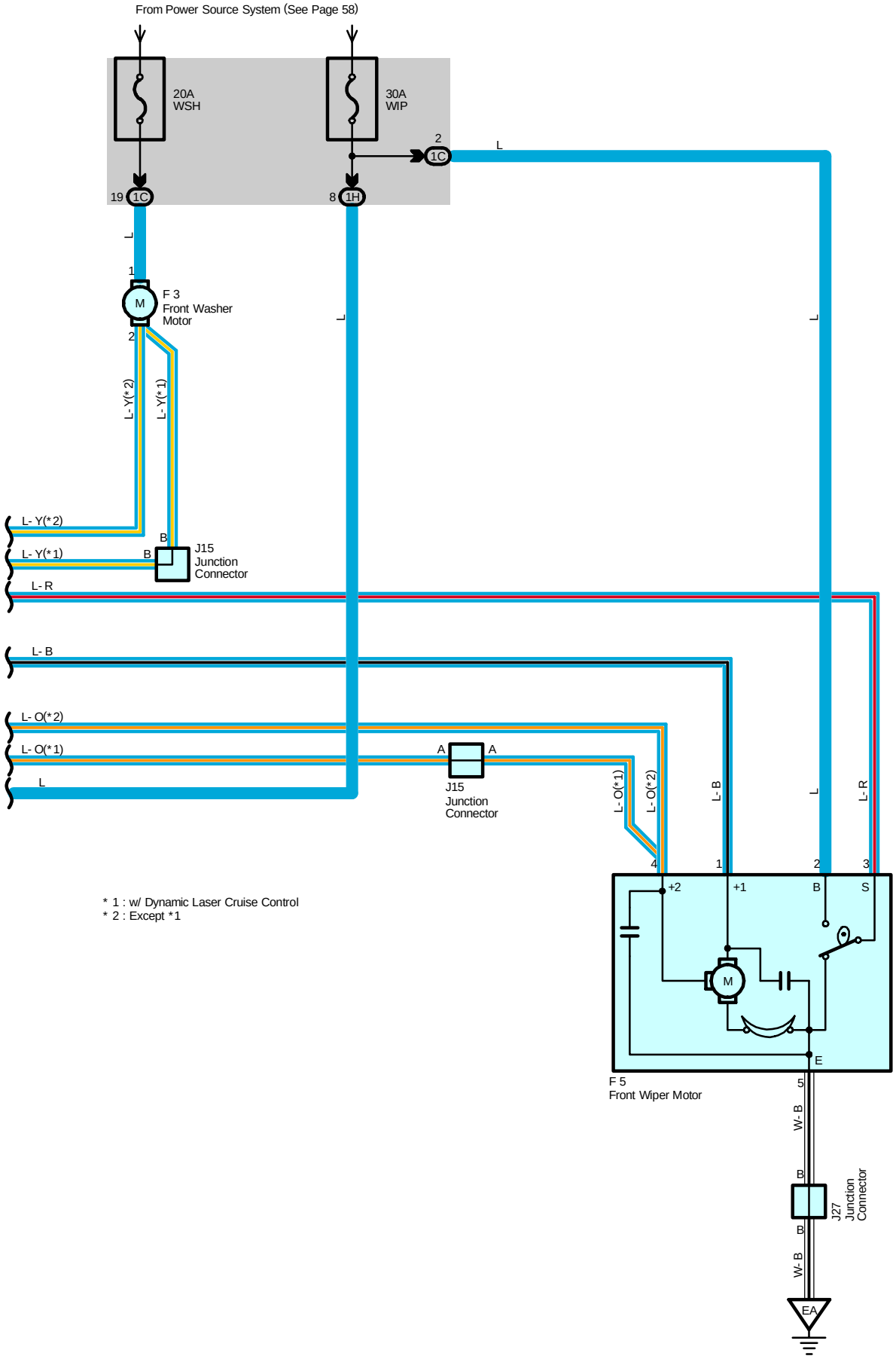
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BM1	54 (*2)	Floor No.2 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)
BO1	54 (*1)	Seat No.1 Wire and Floor No.2 Wire (Under the Front Passenger's Seat)

: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH

* 1 : w/ Power Seat * 2 : w/o Power Seat


C12
Combination SW
MIST
OFF
INT
LO
HI
Washer
INT TIME
Wiper Relay
Front Washer SW
Front Wiper SW
11
L- Y
2
W- B
16
7
8
17
L- Y
W- B
J 3(A), J 4(B)
Junction Connector
33
16
32
15
14
31
31
14
L- Y(*2)
L- Y(*1)
L- R
L- B
L- O
L- O(*2)
L- O(*1)
L
IE


From Power Source System (See Page 58)
20A
WSH
30A
WIP
2
1C
L
19
1C
8
1H
L
1
F 3
Front Washer
Motor
M
2
L
L
L- Y(*2)
L- Y(*1)
L- Y(*2)
B
L- Y(*1)
B
J15
Junction
Connector
L- R
L- B
L- O(*2)
L- O(*1)
L
A
A
J15
Junction
Connector
L- O(*1)
L- O(*2)
L- B
L
L- R
4
1
2
3
+2
+1
B
S
M
E
F 5
Front Wiper Motor
5
W- B
B
J27
Junction
Connector
B
W- B
EA
* 1 : w/ Dynamic Laser Cruise Control
* 2 : Except *1

Front Wiper and Washer

System Outline

With the ignition SW turned on, the current flows to TERMINAL 17 of the wiper and washer SW and TERMINAL 2 of the front wiper motor through the WIP fuse. The current flows to TERMINAL 1 of the front washer motor through the WSH fuse.

1. Low Speed Position

With the front wiper and washer SW turned to LO position, the current flows from TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and causes the front wiper motor to run at low speed.

2. High Speed Position

With the front wiper and washer SW turned to HI position, the current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 8 to TERMINAL 4 of the front wiper motor to TERMINAL 5 to GROUND and causes the front wiper motor to run at high speed.

3. INT Position

With the wiper and washer SW turned to INT position, the wiper relay operates and current flows from TERMINAL 17 of the front wiper and washer SW to TERMINAL 2 to GROUND. This activates the intermittent circuit and the current flows from TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and the wiper operates. Intermittent operation is controlled by a condenser charge and discharge function in the relay.

4. Washer Interlocking Operation

With the front wiper and washer SW pulled to washer position (Washer SW ON position), the current flows from the WSH fuse to TERMINAL 1 of the front washer motor to TERMINAL 2 to TERMINAL 11 of the front wiper and washer SW to TERMINAL 2 to GROUND and causes the front washer motor to run and the window washer to spray. Simultaneously, current flows from the WIP fuse to TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND, causing the wiper to function.

Service Hints

C12 Combination SW

2-Ground : Always continuity
17-Ground : Approx. 12 volts with the ignition SW at ON position
7-Ground : Approx. 12 volts with the ignition SW on and the wiper and washer SW at LO position
Approx. 12 volts every approx. 1 to 10 seconds intermittently with the ignition SW on and the wiper and washer SW at INT position
16-Ground : Approx. 12 volts with the ignition SW on and unless the front wiper motor at STOP position
8-Ground : Approx. 12 volts with the ignition SW on and the wiper and washer SW at HI position

F5 Front Wiper Motor

2-3 : Closed unless the front wiper motor at STOP position

○ : Parts Location

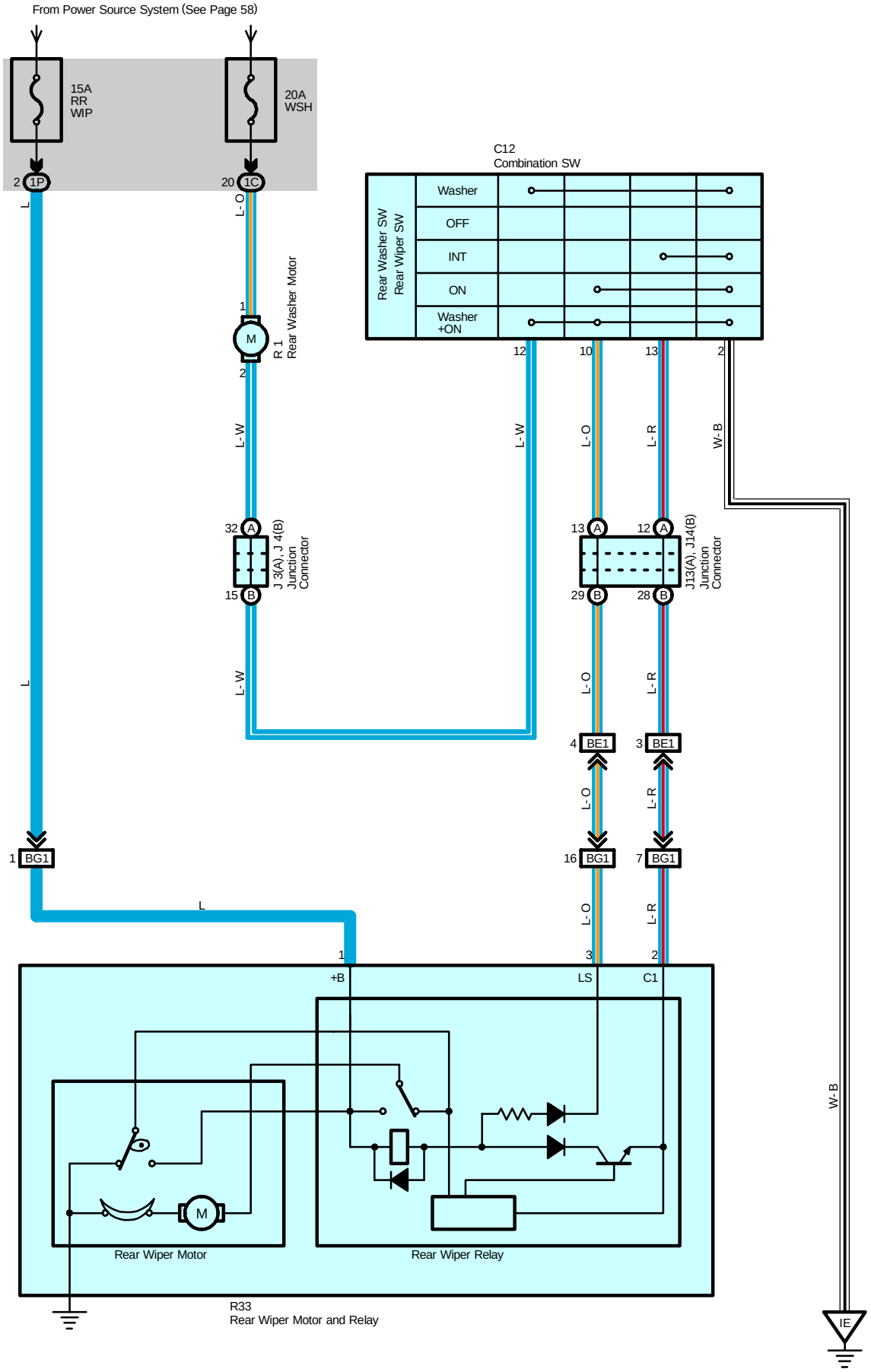
Code	See Page	Code		See Page	Code	See Page
C12	35	J3	A	36	J27	36
F3	32	J4	B	36		
F5	32	J15		36		

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
IE	46	Left Kick Panel


From Power Source System (See Page 58)
15A
RR
WIP
20A
WSH
2 1P
20 1C
L
L - O
C12
Combination SW
Rear Washer SW
Rear Wiper SW
Washer
OFF
INT
ON
Washer
+ON
12
10
13
2
L - W
L - O
L - R
W - B
1
M
2
R 1
Rear Washer Motor
32 A
15 B
J 3(A), J 4(B)
Junction
Connector
13 A
12 A
29 B
28 B
J13(A), J14(B)
Junction
Connector
4 BE1
3 BE1
1 BG1
16 BG1
7 BG1
1
3
2
+B
LS
C1
M
Rear Wiper Motor
Rear Wiper Relay
R33
Rear Wiper Motor and Relay
IE

System Outline

When the ignition SW is turned on, the current flows from the WSH fuse to rear washer motor TERMINAL 1, and the current flows from the RR WIP fuse to rear wiper motor and relay TERMINAL 1 respectively.

1. Rear Wiper Normal Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned to ON position, the current flows from the rear wiper motor and relay TERMINAL 1 to TERMINAL 3 to the rear wiper and washer SW TERMINAL 10 to TERMINAL 2 to GROUND, and turns on the rear wiper relay. As a result, the current flows from the rear wiper motor and relay TERMINAL 1 to the rear wiper motor to GROUND, and operates the rear wiper.

2. Rear Wiper Intermittent Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned to INT position, the current flows from the rear wiper motor and relay TERMINAL 1 to TERMINAL 2 to the rear wiper and washer SW TERMINAL 13 to TERMINAL 2 to GROUND, and the intermittent circuit in the rear wiper relay is controlled to operate the wiper intermittently.

3. Washer Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned from OFF to washer position, the current flows from the WSH fuse to the rear washer motor TERMINAL 1 to TERMINAL 2 to the rear wiper and washer SW TERMINAL 12 to TERMINAL 2 to GROUND. This activates the washer motor, and the window washer emits a water spray. When the rear wiper and washer SW is turned to ON position, the window washer emits a water spray during rear wiper normal operation.

Service Hints

R1 Rear Washer Motor

1-Ground : Approx. 12 volts with the ignition SW at ON position

R33 Rear Wiper Motor and Relay

1-Ground : Approx. 12 volts with the ignition SW at ON position

: Parts Location

Code		See Page	Code		See Page	Code	See Page
C12		35	J13	A	36	R33	40
J3	A	36	J14	B	36		
J4	B	36	R1		33		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)

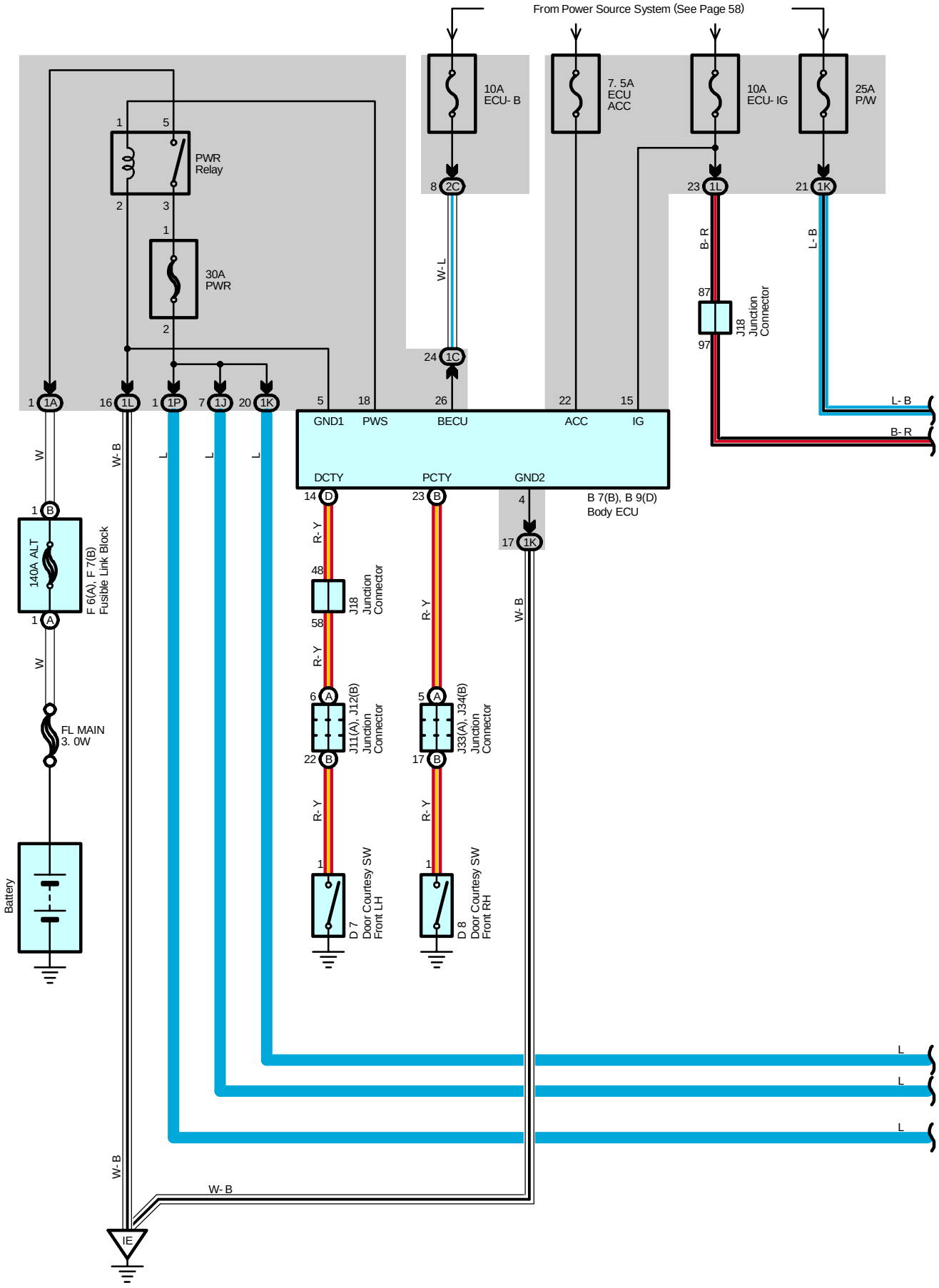
: Connector Joining Wire Harness and Wire Harness

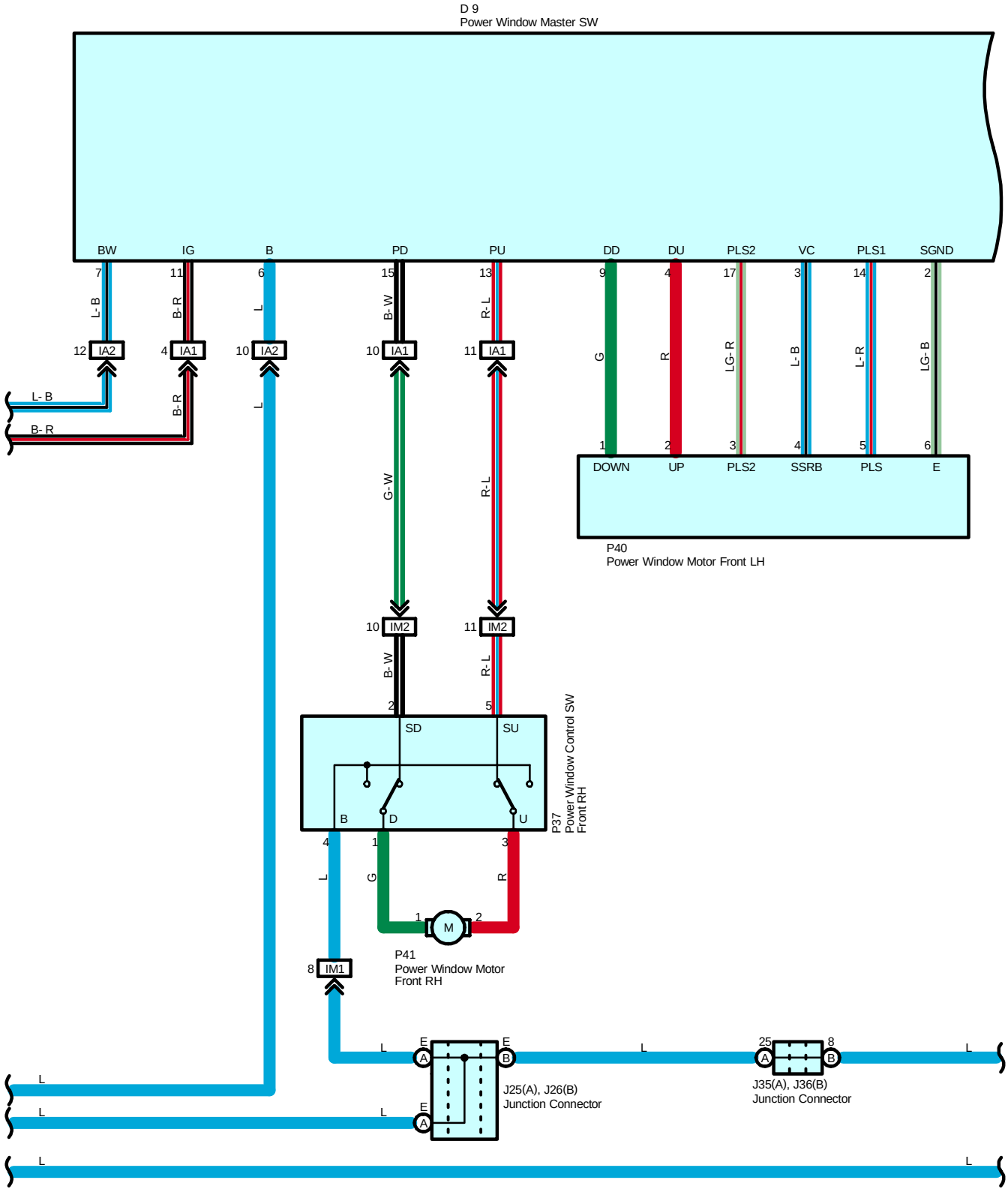
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	50	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)

: Ground Points

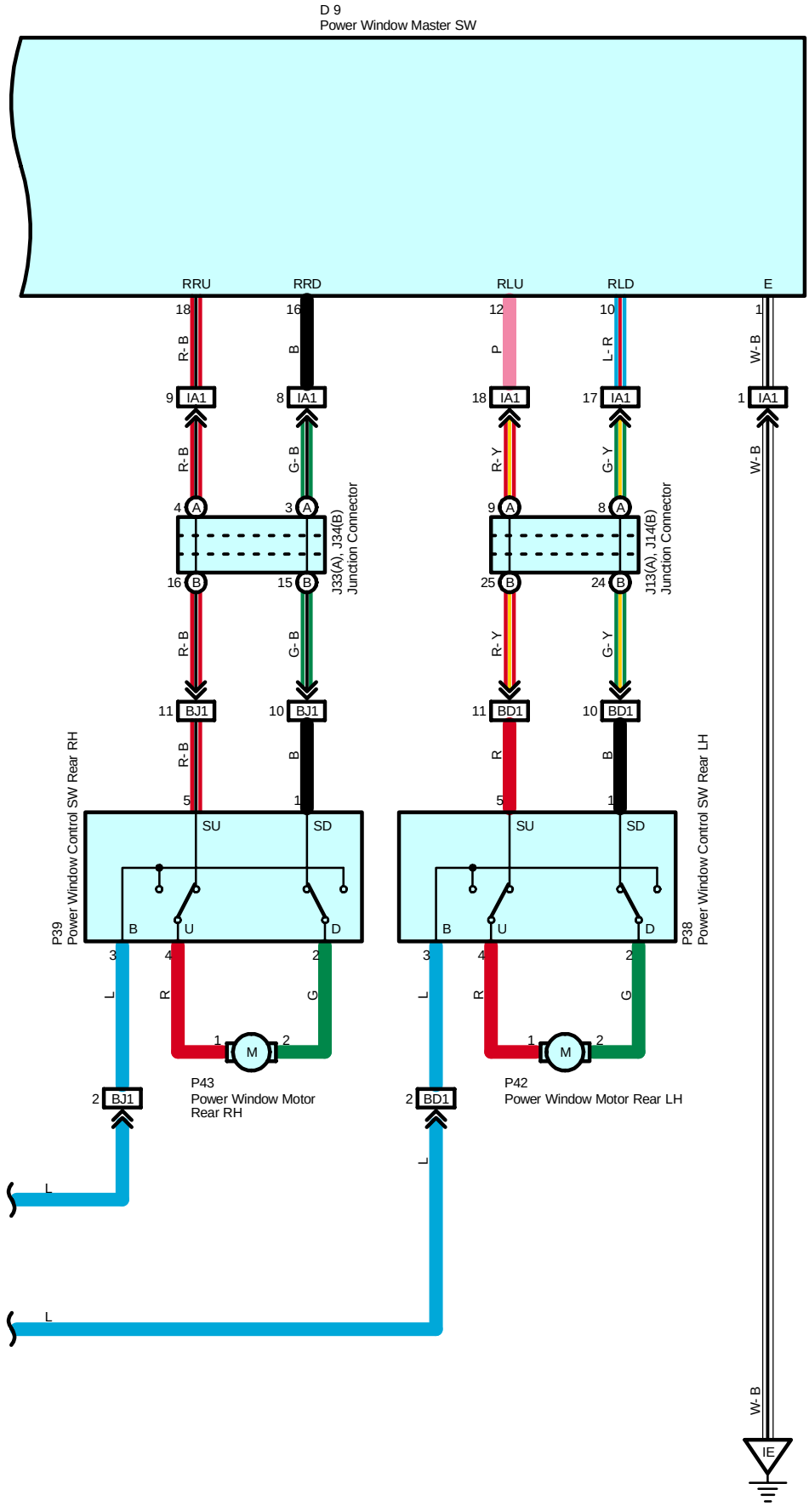
Code	See Page	Ground Points Location
IE	46	Left Kick Panel

Power Window with Jam Protection




D 9
Power Window Master SW
BW
IG
B
PD
PU
DD
DU
PLS2
VC
PLS1
SGND
7
11
6
15
13
9
4
17
3
14
2
L- B
B- R
L
B- W
R- L
G
R
LG- R
L- B
L- R
LG- B
12 IA2
4 IA1
10 IA2
10 IA1
11 IA1
L- B
B- R
L
G- W
R- L
1
2
3
4
5
6
DOWN
UP
PLS2
SSRB
PLS
E
P40
Power Window Motor Front LH
10 IM2
11 IM2
B- W
R- L
2
5
SD
SU
B
D
U
P37
Power Window Control SW
Front RH
4
1
3
L
G
R
1
M
2
P41
Power Window Motor
Front RH
8 IM1
L
E
A
E
B
L
L
E
A
L
J25(A), J26(B)
Junction Connector
25
A
8
B
L
J35(A), J36(B)
Junction Connector
L
L

Power Window with Jam Protection



Service Hints

Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code	See Page
B7	B	34	J13	A	36	P37	39
B9	D	34	J14	B	36	P38	39
D7		38	J18		36	P39	39
D8		38	J25	A	36	P40	39
D9		38	J26	B	36	P41	39
F6	A	32	J33	A	36	P42	39
F7	B	32	J34	B	36	P43	39
J11	A	36	J35	A	36		
J12	B	36	J36	B	36		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1J	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K		
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

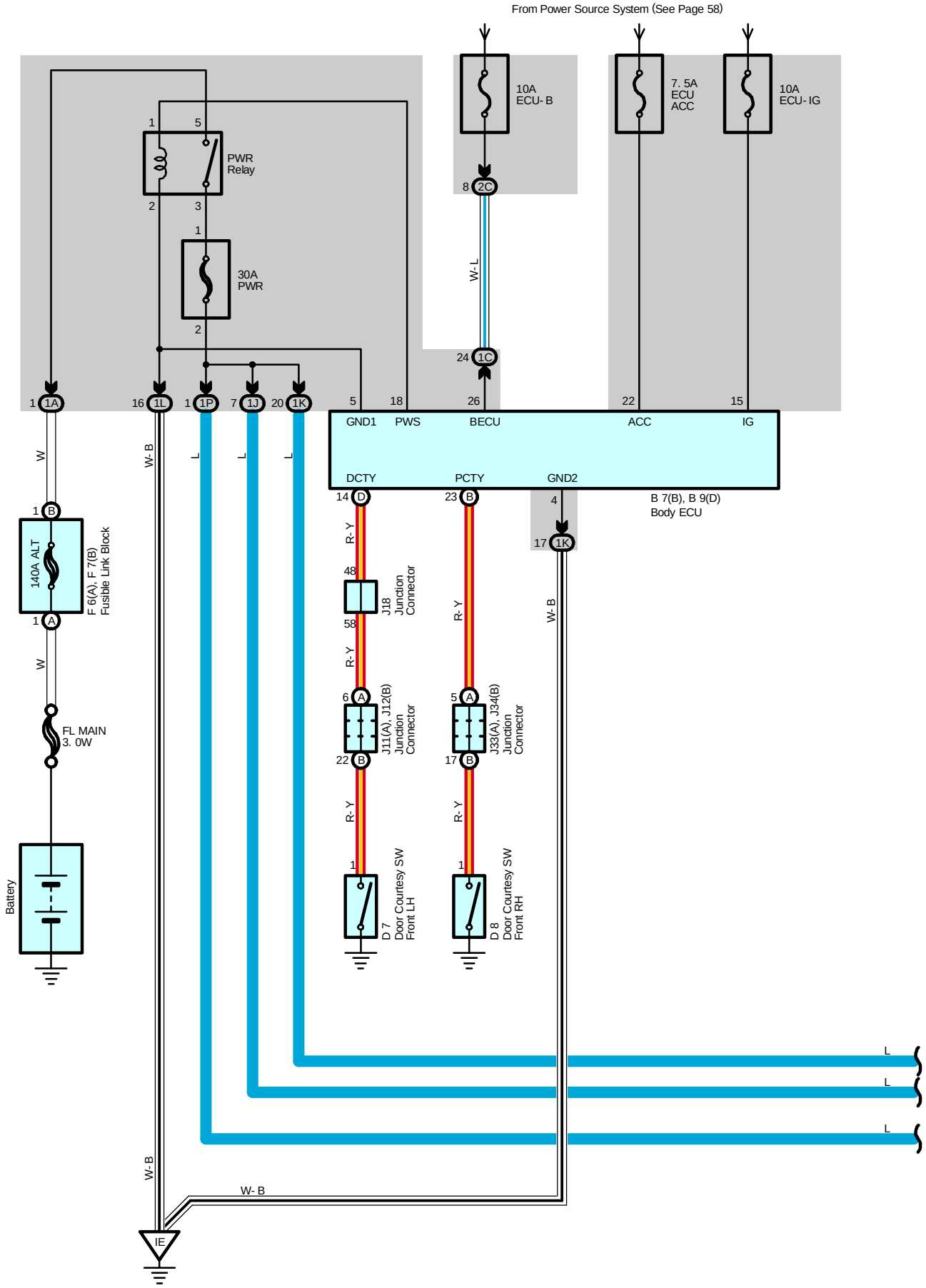
: Connector Joining Wire Harness and Wire Harness

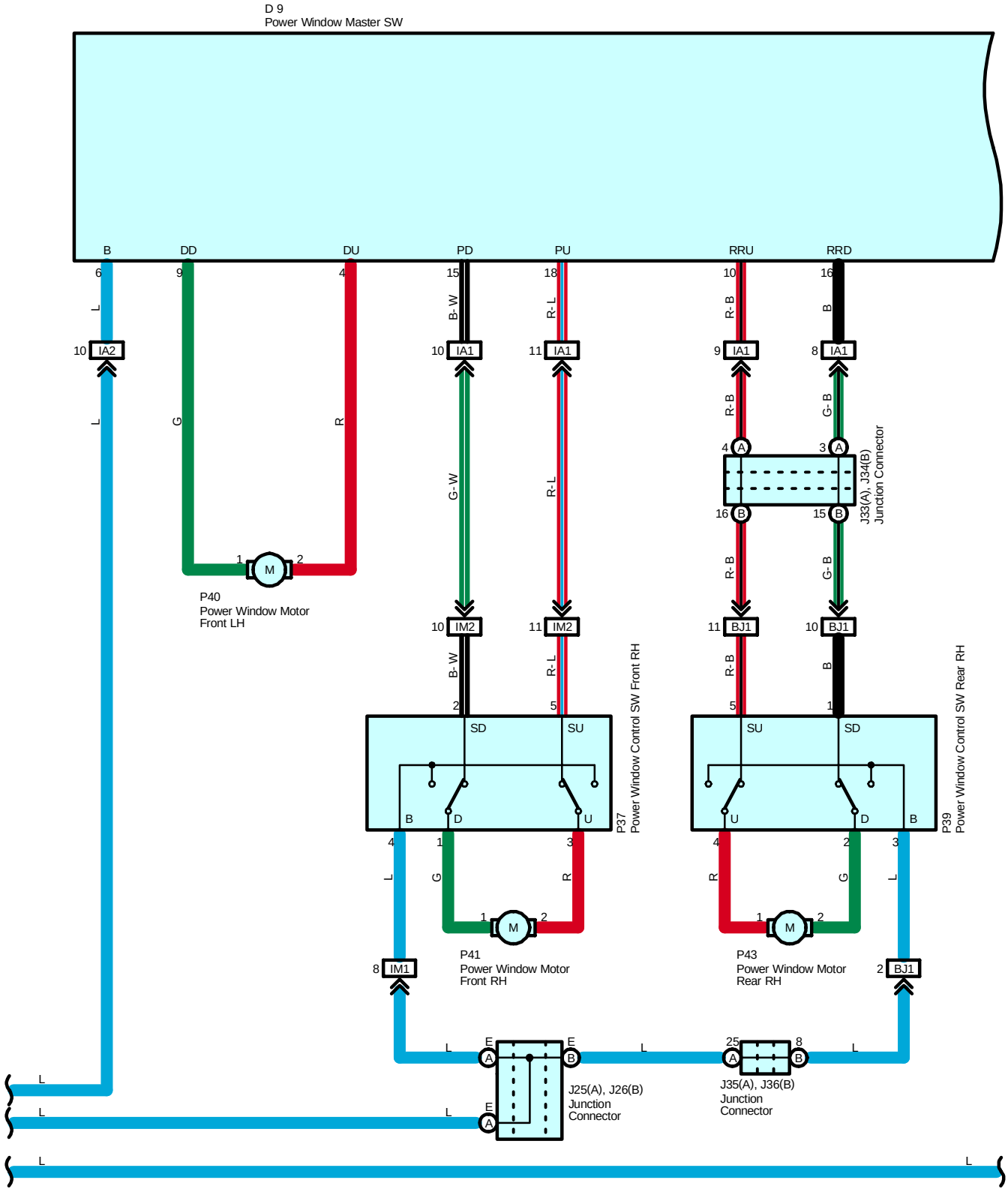
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
BD1	50	Rear Door No.2 Wire and Floor No.1 Wire (On the Left Rear Wheel House)
BJ1	52	Rear Door No.1 Wire and Floor No.2 Wire (On the Right Rear Wheel House)

: Ground Points

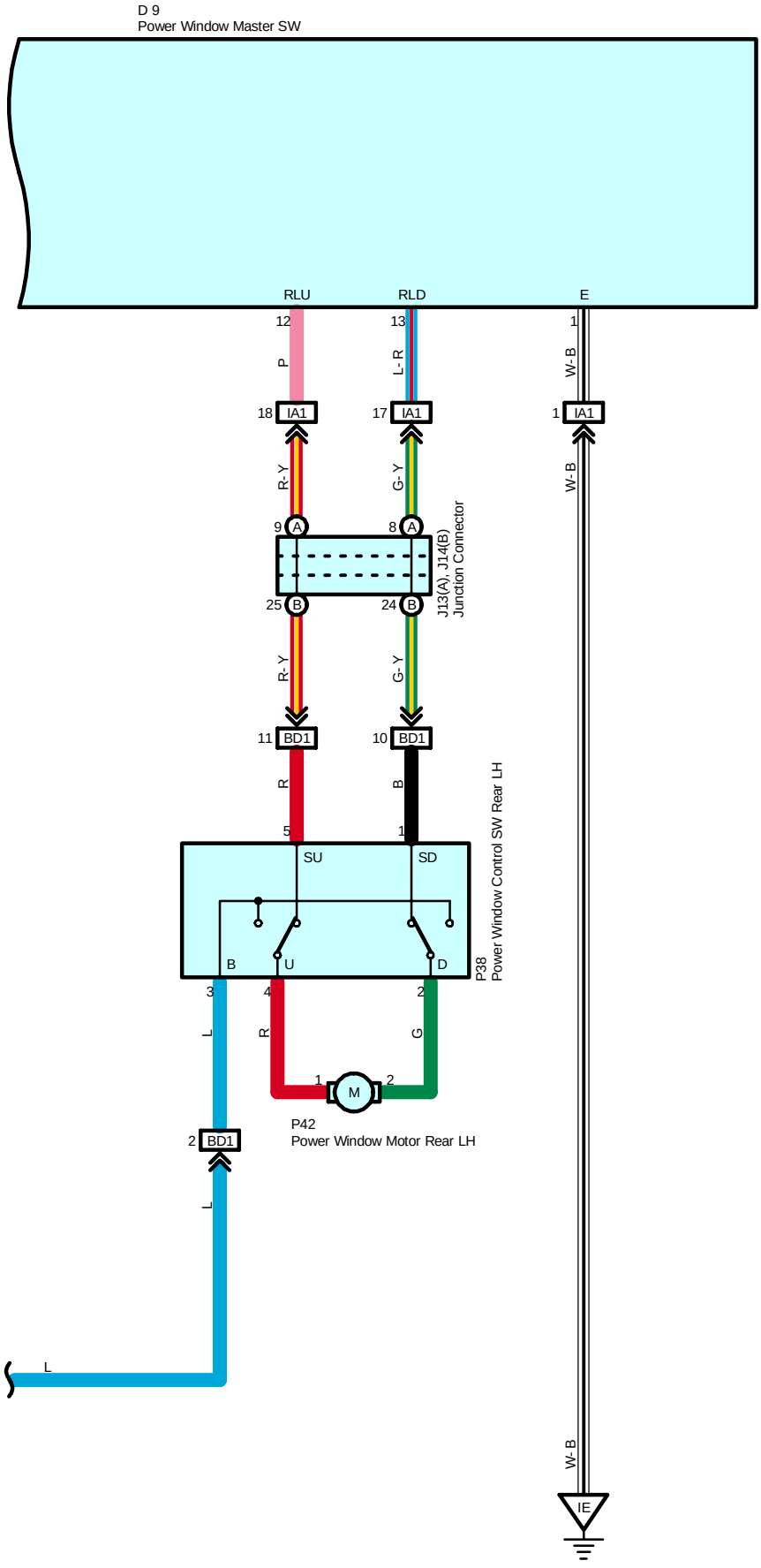
Code	See Page	Ground Points Location
IE	46	Left Kick Panel

Power Window without Jam Protection




D 9
Power Window Master SW
B
DD
DU
PD
PU
RRU
RRD
IA2
IA1
IM2
BJ1
IM1
P40
Power Window Motor
Front LH
P41
Power Window Motor
Front RH
P43
Power Window Motor
Rear RH
P37
Power Window Control SW Front RH
P39
Power Window Control SW Rear RH
J33(A), J34(B)
Junction Connector
J25(A), J26(B)
Junction
Connector
J35(A), J36(B)
Junction
Connector

Power Window without Jam Protection



Service Hints

Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code	See Page
B7	B	34	J13	A	36	P37	39
B9	D	34	J14	B	36	P38	39
D7		38	J18		36	P39	39
D8		38	J25	A	36	P40	39
D9		38	J26	B	36	P41	39
F6	A	32	J33	A	36	P42	39
F7	B	32	J34	B	36	P43	39
J11	A	36	J35	A	36		
J12	B	36	J36	B	36		

: Junction Block and Wire Harness Connector

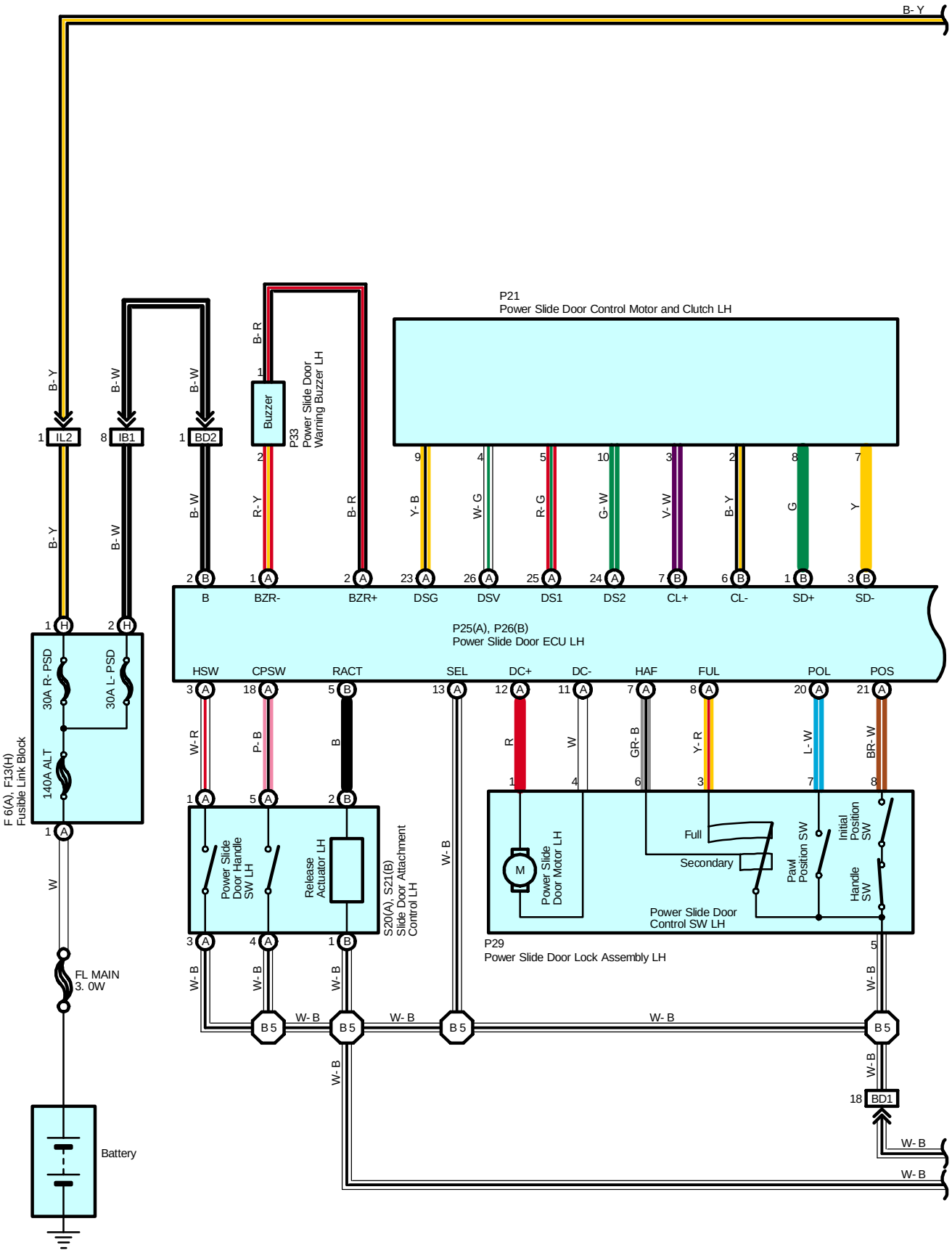
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1J	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K		
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

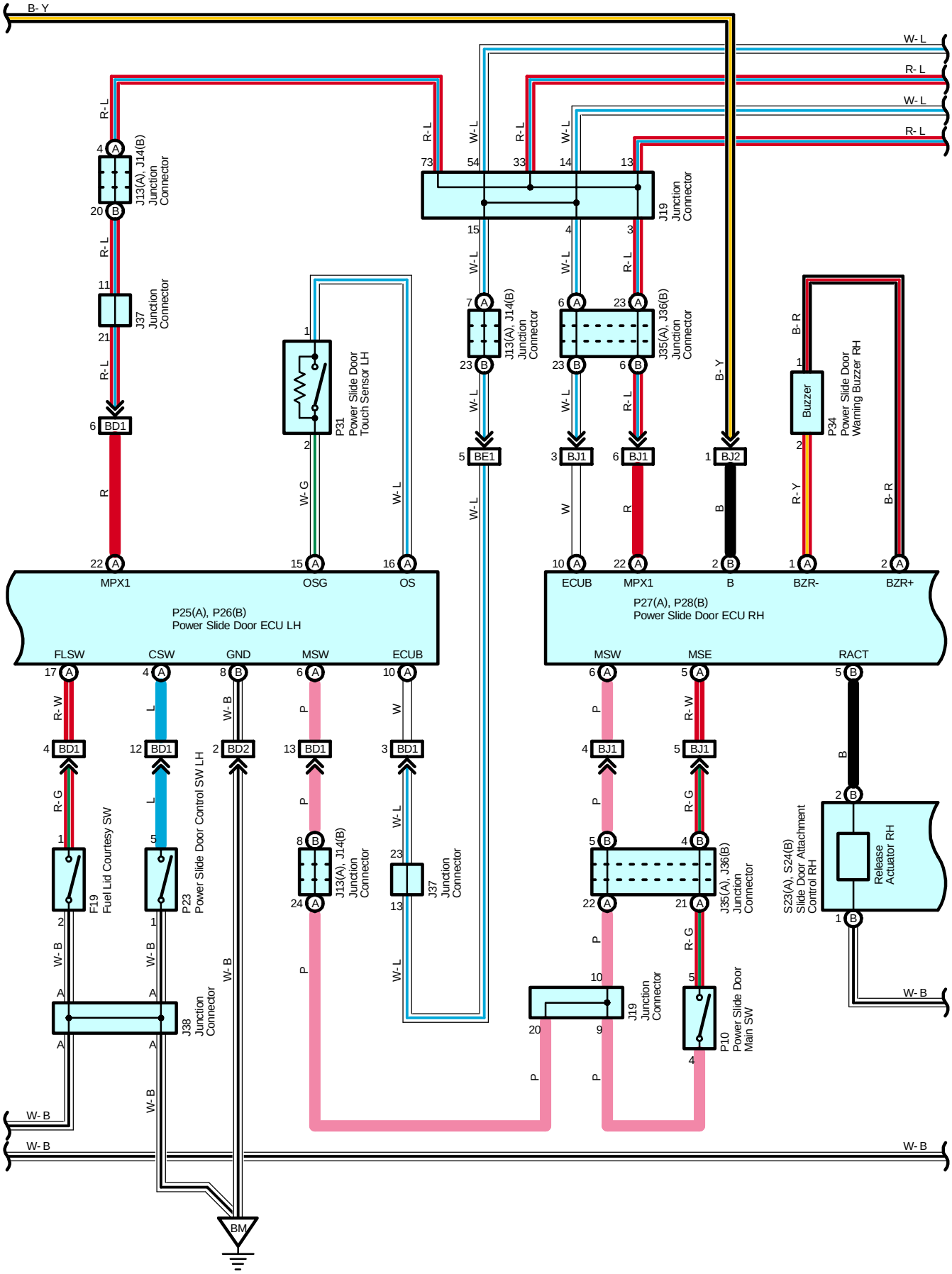
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
BD1	50	Rear Door No.2 Wire and Floor No.1 Wire (On the Left Rear Wheel House)
BJ1	52	Rear Door No.1 Wire and Floor No.2 Wire (On the Right Rear Wheel House)

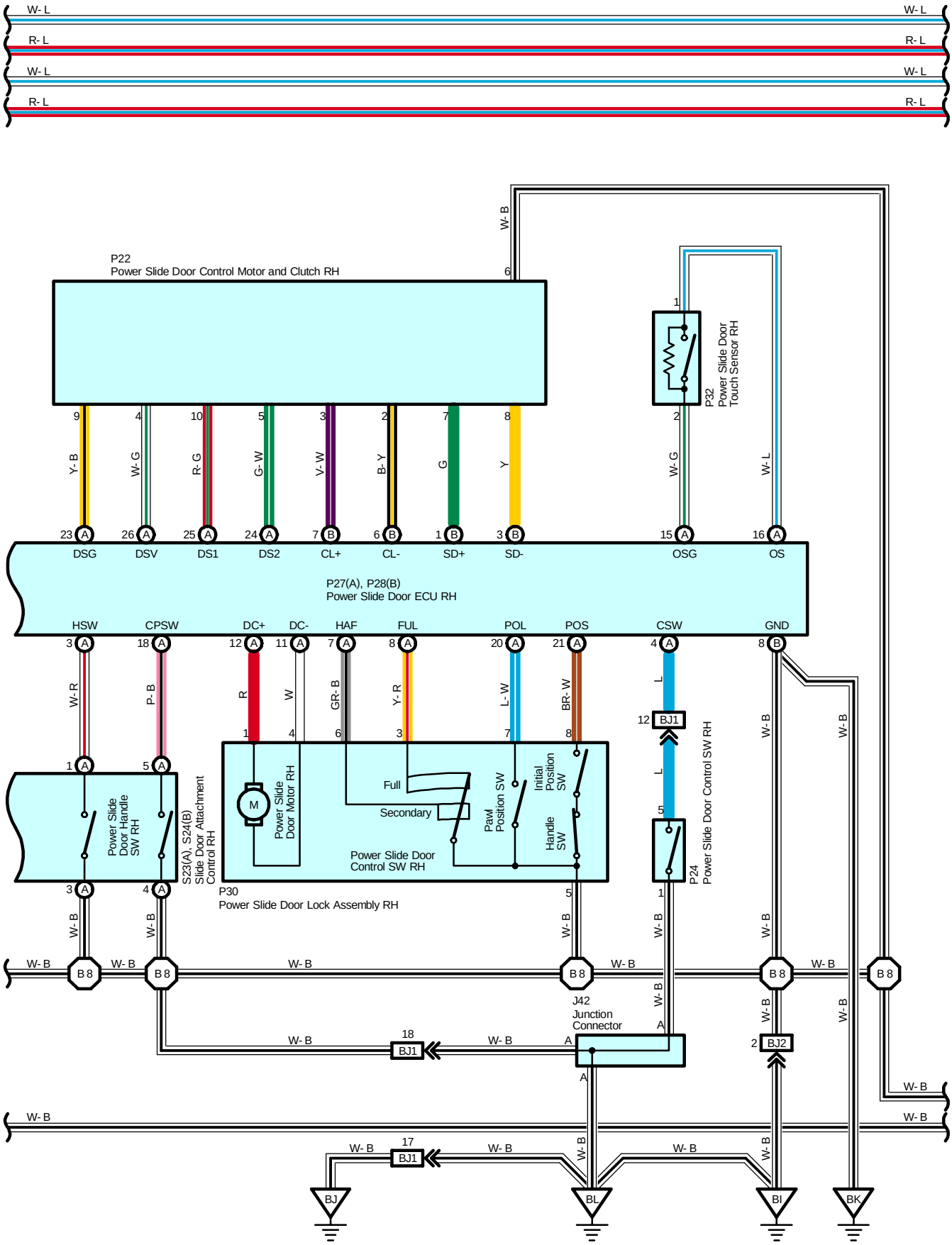
: Ground Points

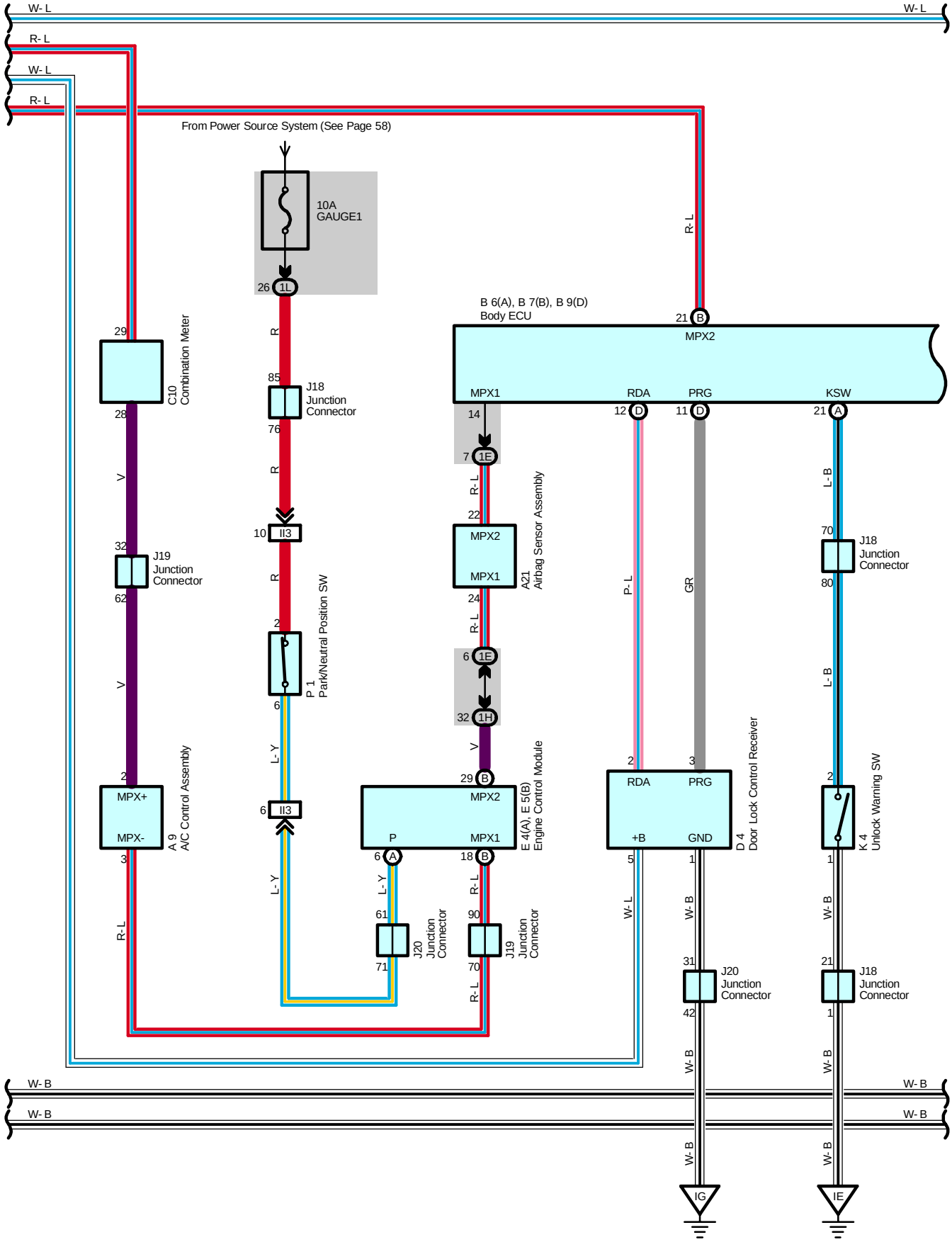
Code	See Page	Ground Points Location
IE	46	Left Kick Panel


B- Y
P21
Power Slide Door Control Motor and Clutch LH
B- R
Buzzer
P33
Power Slide Door
Warning Buzzer LH
B- W
IL2
IB1
BD2
R- Y
Y- B
W- G
R- G
G- W
V- W
B- Y
G
Y
B
BZR-
BZR+
DSG
DSV
DS1
DS2
CL+
CL-
SD+
SD-
P25(A), P26(B)
Power Slide Door ECU LH
HSW
CPSW
RACT
SEL
DC+
DC-
HAF
FUL
POL
POS
W- R
P- B
B
R
W
GR- B
Y- R
L- W
BR- W
F 6(A), F13(H)
Fusible Link Block
30A R- PSD
30A L- PSD
140A ALT
W
FL MAIN
3. 0W
Battery
Power Slide
Door Handle
SW LH
Release
Actuator LH
S20(A), S21(B)
Slide Door Attachment
Control LH
W- B
B5
M
Power Slide
Door Motor LH
Full
Secondary
Pawl
Position SW
Initial
Position
SW
Handle
SW
Power Slide Door
Control SW LH
P29
Power Slide Door Lock Assembly LH
BD1

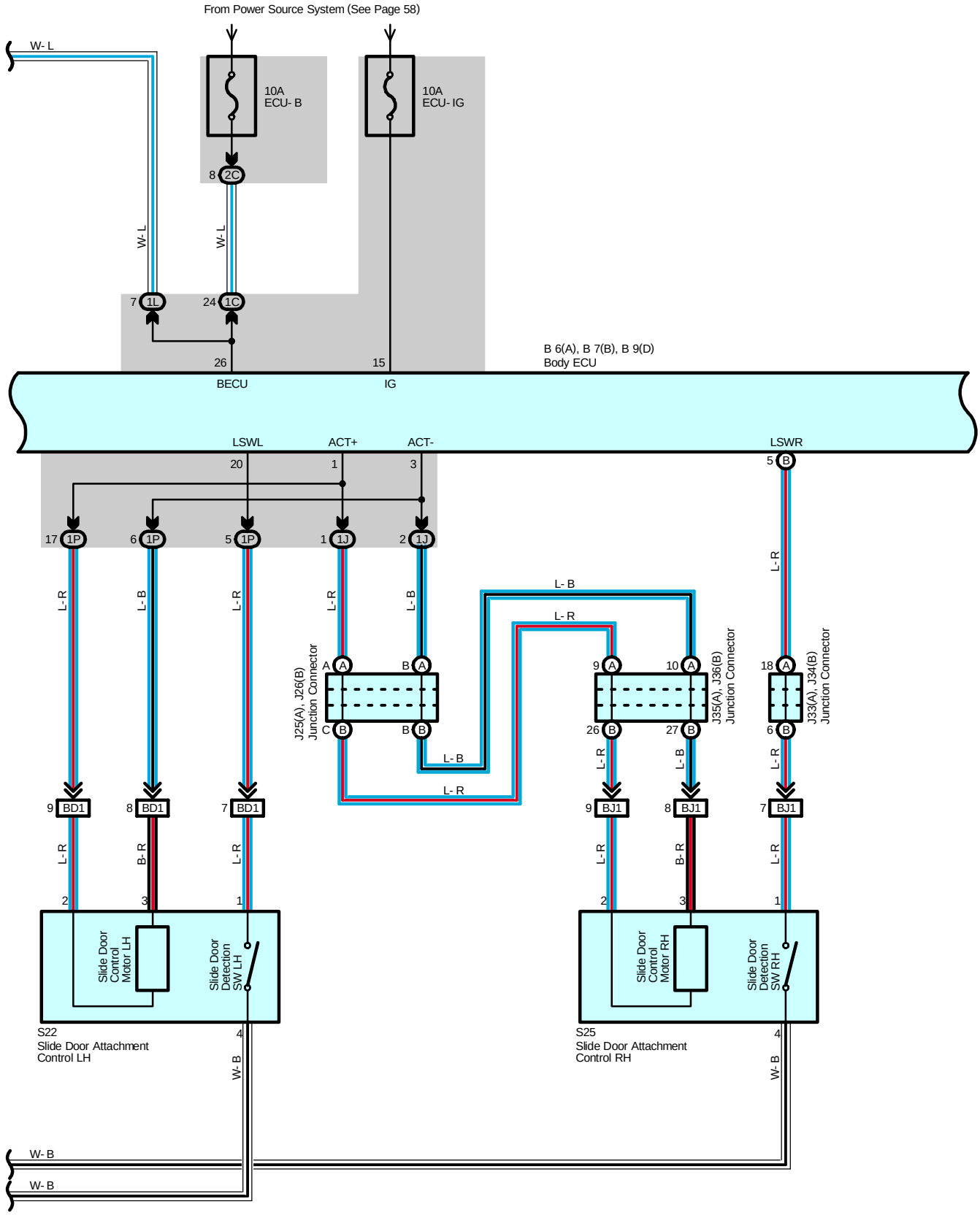

B- Y
W- L
R- L
W- L
R- L
J13(A), J14(B) Junction Connector
J37 Junction Connector
J19 Junction Connector
J13(A), J14(B) Junction Connector
J35(A), J36(B) Junction Connector
P31 Power Slide Door Touch Sensor LH
Buzzer
P34 Power Slide Door Warning Buzzer RH
BD1
BE1
BJ1
BJ2
MPX1
OSG
OS
ECUB
B
BZR-
BZR+
P25(A), P26(B) Power Slide Door ECU LH
P27(A), P28(B) Power Slide Door ECU RH
FLSW
CSW
GND
MSW
ECUB
MSW
MSE
RACT
BD2
F19 Fuel Lid Courtesy SW
P23 Power Slide Door Control SW LH
J38 Junction Connector
S23(A), S24(B) Slide Door Attachment Control RH
Release Actuator RH
P10 Power Slide Door Main SW
BM

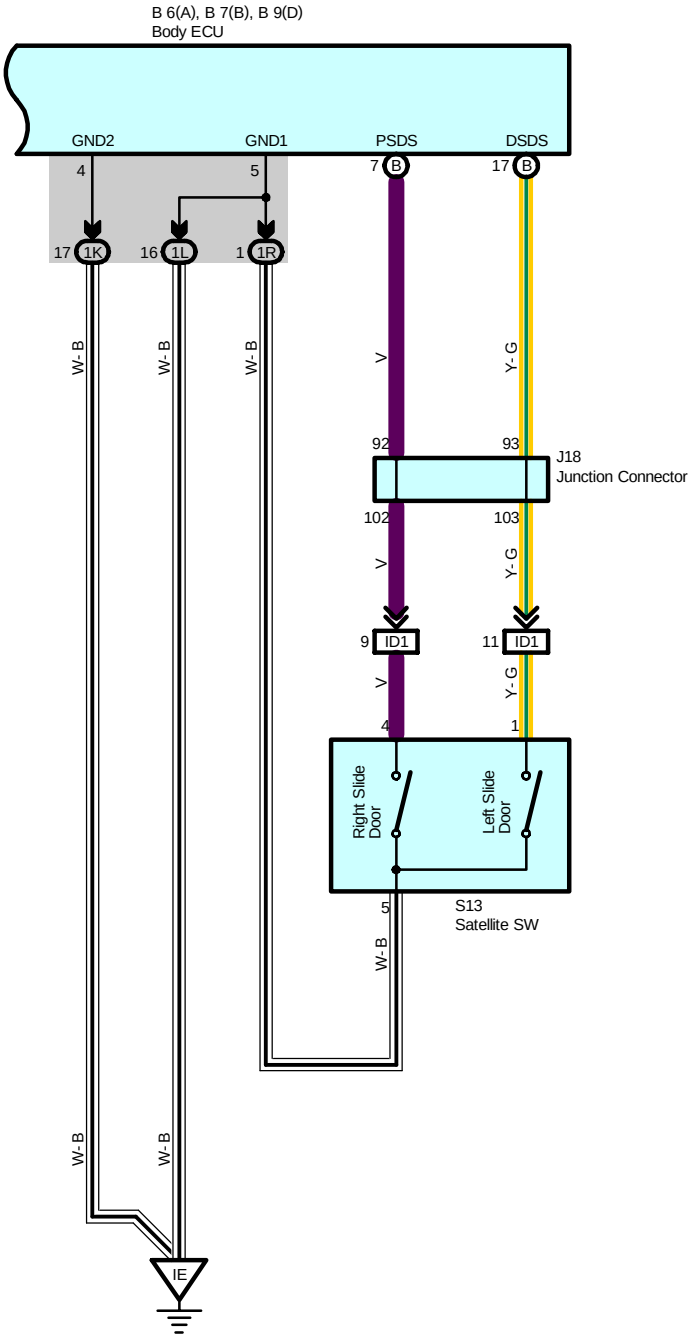
Power Slide Door




W- L
W- L
R- L
W- L
R- L
From Power Source System (See Page 58)
10A
GAUGE1
26
1L
R
85
J18
Junction
Connector
76
R
10
II3
R
2
P 1
Park/Neutral Position SW
6
L- Y
6
II3
L- Y
29
C10
Combination Meter
28
V
32
J19
Junction
Connector
62
V
2
MPX+
MPX-
3
A 9
A/C Control Assembly
R- L
R- L
B 6(A), B 7(B), B 9(D)
Body ECU
21
B
MPX2
MPX1
RDA
PRG
KSW
14
12
D
11
D
21
A
7
1E
R- L
22
MPX2
MPX1
24
A21
Airbag Sensor Assembly
R- L
6
1E
32
1H
V
29
B
MPX2
P
MPX1
6
A
18
B
E 4(A), E 5(B)
Engine Control Module
L- Y
61
J20
Junction
Connector
71
R- L
90
J19
Junction
Connector
70
R- L
P- L
GR
L- B
70
J18
Junction
Connector
80
L- B
2
RDA
PRG
3
2
5
1
D 4
Door Lock Control Receiver
+B
GND
W- L
W- B
31
J20
Junction
Connector
42
W- B
2
K 4
Unlock Warning SW
1
W- B
21
J18
Junction
Connector
1
W- B
W- B
W- B
W- B
W- B
IG
IE

Power Slide Door




B 6(A), B 7(B), B 9(D)
Body ECU
GND2
GND1
PSDS
DSDS
4
5
7
B
17
B
17
1K
16
1L
1
1R
W-B
W-B
W-B
V
Y-G
92
93
J18
Junction Connector
102
103
V
Y-G
9
ID1
11
ID1
V
Y-G
4
1
Right Slide Door
Left Slide Door
5
S13
Satellite SW
W-B
W-B
W-B
IE

Power Slide Door

System Outline

1. The Main Opening and Closing Operations

(1) By pushing the remote control SW, the automatic opening and closing of the slide door can be carried out.

(2) By pushing the operation SW formed in overhead console, the automatic opening and closing of slide door can be carried out.

(3) By pushing the operation SW formed in B pillar garnish, the automatic opening and closing of slide door can be carried out.

(4) By operating outside handle or inside handle, the automatic opening and closing of the slide door can be carried out.

∗ The automatic opening (Closing) operation of the slide door is possible only when the power slide door main SW in the instrument panel of driver's seat part is ON.

2. Consideration of Safety

(1) The power door sensor is newly adopted.
If the power door sensor which is arranged on the front end of the slide door detects something pinching or obstacle during the automatic operation, the door will be reversed in fully open direction.

(2) If something pinching or obstacle is detected by speed change of door operation during the automatic operation, the door will be reversed in opposite direction of the advance direction.

(3) If the door handle or each operation SW is operated for someone feel danger, etc. during the automatic operation, the door will be reversed in opposite direction of the advance direction.

Service Hints

Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
4, 5-Ground : Always continuity

P25 (A), P26 (B) Power Slide Door ECU LH

(A)10, (B) 2-Ground: Always approx. 12 volts
(A)13, (B) 8-Ground: Always continuity

P27 (A), P28 (B) Power Slide Door ECU RH

(A)10, (B) 2-Ground: Always approx. 12 volts
(B) 8-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	J25 A	36	P26 B	39
A21	34	J26 B	36	P27 A	39
B6 A	34	J33 A	36	P28 B	39
B7 B	34	J34 B	36	P29	39
B9 D	34	J35 A	36	P30	39
C10	35	J36 B	36	P31	39
D4	35	J37	39	P32	39
E4 A	35	J38	39	P33	39
E5 B	35	J42	39	P34	39
F6 A	32	K4	36	S13	40
F13 H	32	P1	33	S20 A	40
F19	38	P10	37	S21 B	40
J13 A	36	P21	39	S22	40
J14 B	36	P22	39	S23 A	40
J18	36	P23	39	S24 B	40
J19	36	P24	39	S25	40
J20	36	P25 A	39		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1J	27	
1K		
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

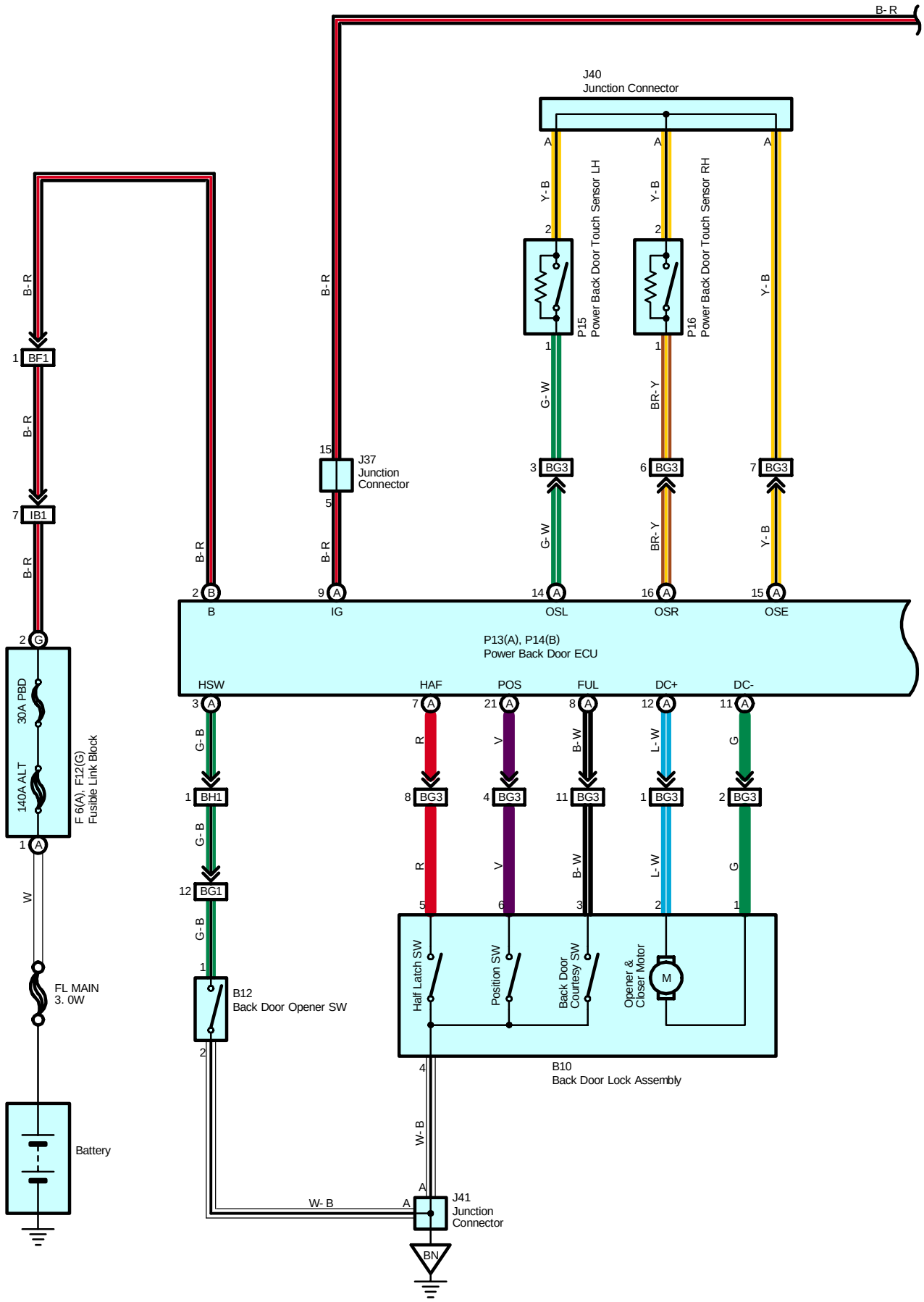
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	46	Engine Room Main Wire and Floor No.1 Wire (Left Cowl Side Panel)
ID1	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IL2	48	Engine Room Main Wire and Floor No.2 Wire (Right Kick Panel)
BD1	50	Rear Door No.2 Wire and Floor No.1 Wire (On the Left Rear Wheel House)
BD2		
BE1	50	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BJ1	52	Rear Door No.1 Wire and Floor No.2 Wire (On the Right Rear Wheel House)
BJ2		

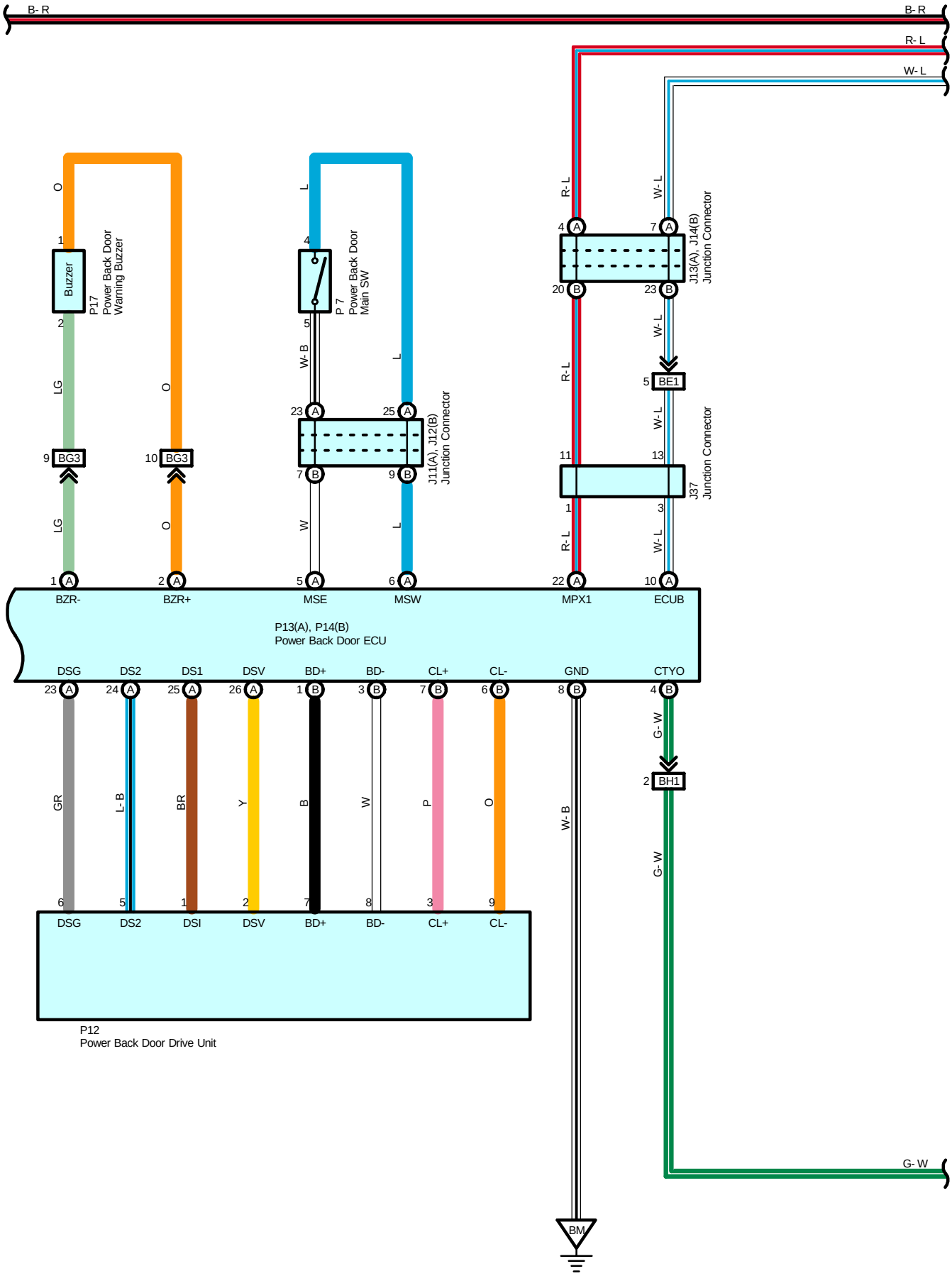
: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel
IG	46	Right Kick Panel
BI	50	Under the Right Center Pillar
BJ	50	Inside of the Slide Door RH
BK		
BL	50	Right Rear Quarter Panel
BM	50	Left Rear Quarter Panel

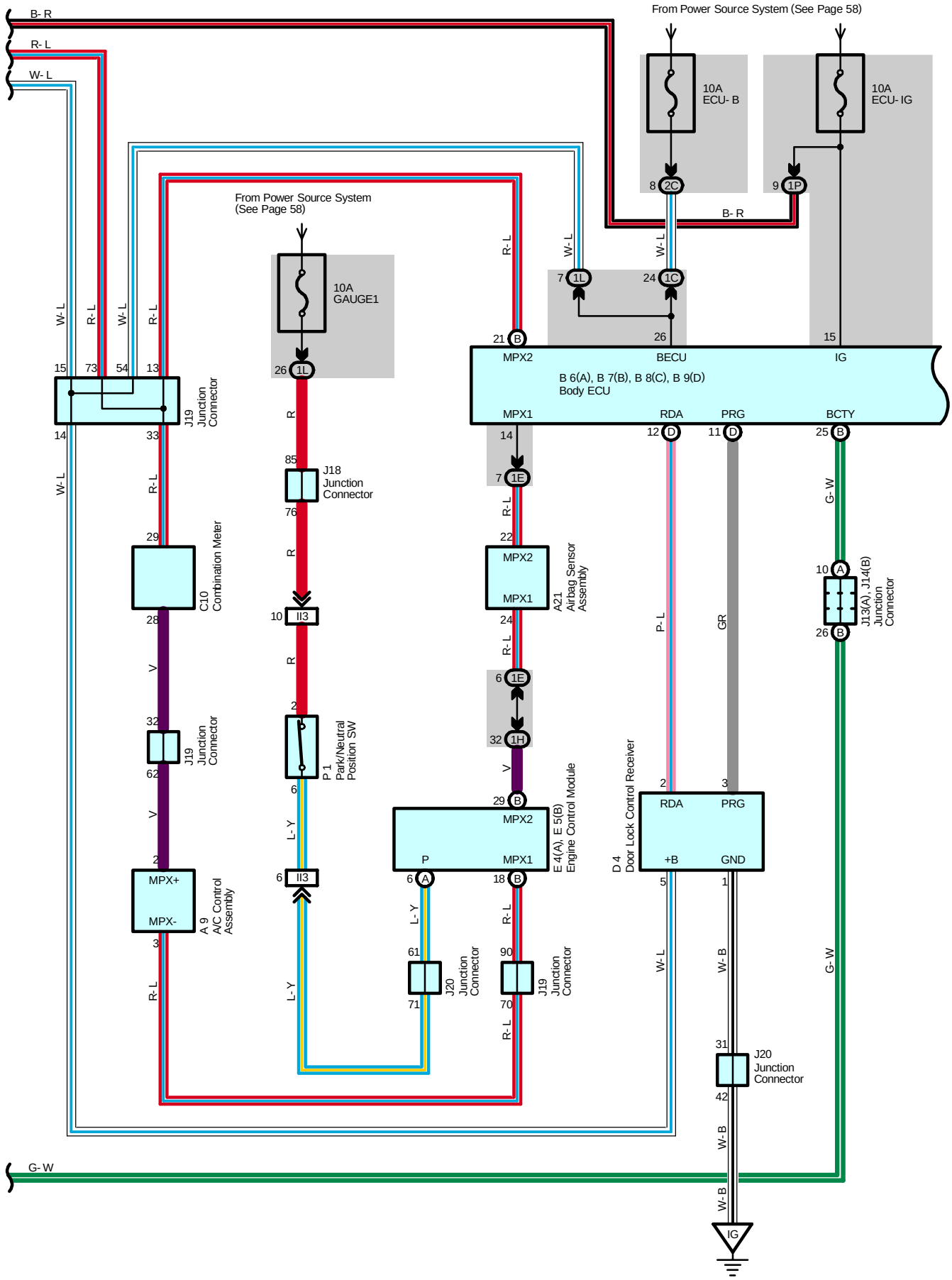
: Splice Points

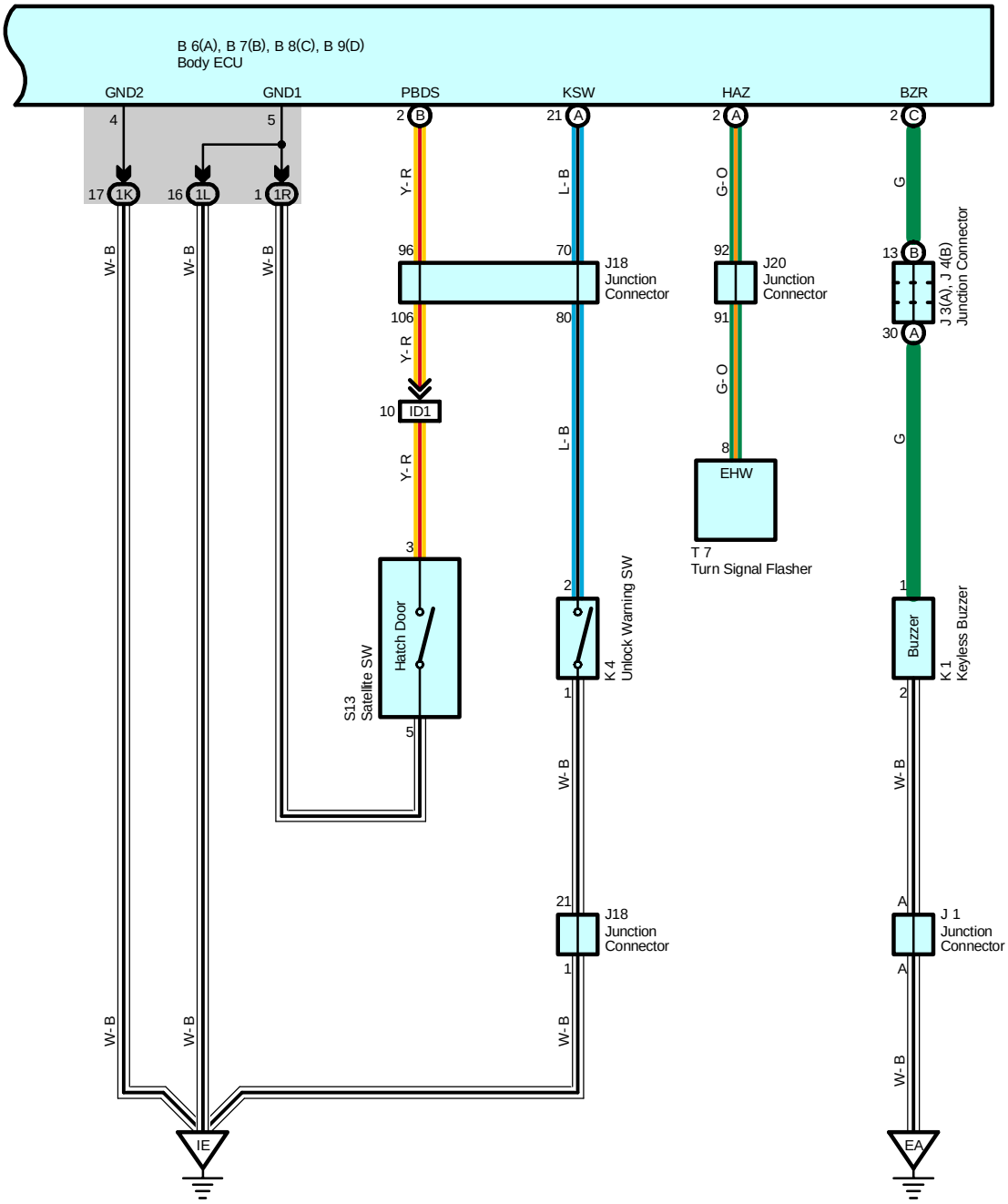
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B5	52	Rear Door No.2 Wire	B8	52	Rear Door No.1 Wire


B-R
J40
Junction Connector
A
Y-B
2
P15
Power Back Door Touch Sensor LH
P16
Power Back Door Touch Sensor RH
1
G-W
BR-Y
3 BG3
6 BG3
7 BG3
15
J37
Junction
Connector
5
9 A
IG
14 A
OSL
16 A
OSR
15 A
OSE
1 BF1
7 IB1
2 G
30A PBD
140A ALT
F 6(A), F12(G)
Fusible Link Block
1 A
W
FL MAIN
3. 0W
Battery
2 B
B
P13(A), P14(B)
Power Back Door ECU
HSW
HAF
POS
FUL
DC+
DC-
3 A
7 A
21 A
8 A
12 A
11 A
G-B
R
V
B-W
L-W
G
1 BH1
8 BG3
4 BG3
11 BG3
1 BG3
2 BG3
12 BG1
5
6
3
2
1
B12
Back Door Opener SW
Half Latch SW
Position SW
Back Door
Courtesy SW
Opener &
Closer Motor
M
B10
Back Door Lock Assembly
4
W-B
A
J41
Junction
Connector
BN


B- R
B- R
R- L
W- L
Buzzer
P17
Power Back Door
Warning Buzzer
P 7
Power Back Door
Main SW
J111(A), J12(B)
Junction Connector
J13(A), J14(B)
Junction Connector
J37
Junction Connector
BG3
BE1
BH1
BZR-
BZR+
MSE
MSW
MPX1
ECUB
P13(A), P14(B)
Power Back Door ECU
DSG
DS2
DS1
DSV
BD+
BD-
CL+
CL-
GND
CTYO
P12
Power Back Door Drive Unit
BM
G- W

Power Back Door




B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
GND2
GND1
PBDS
KSW
HAZ
BZR
4
5
17 1K
16 1L
1 1R
W- B
2 B
Y- R
96
106
10 ID1
3
Hatch Door
S13
Satellite SW
5
21 A
L- B
70
80
J18
Junction
Connector
2
K 4
Unlock Warning SW
1
21
1
2 A
G- O
92
91
J20
Junction
Connector
8
EHW
T 7
Turn Signal Flasher
2 C
G
13 B
30 A
J 3(A), J 4(B)
Junction Connector
1
Buzzer
K 1
Keyless Buzzer
2
A
J 1
Junction
Connector
IE
EA

Power Back Door

System Outline

1. The Main Opening-and-Closing Operations

(1) By pushing the remote control SW, the automatic opening and closing of the back door can be carried out.

(2) By pushing the operation SW formed in overhead console, the automatic opening and closing of the back door can be carried out.

(3) Assistant operation:
By pulling the back door from full open position, the automatic closing of the back door can be carried out.

* The automatic opening (Closing) operation of the back door is possible only when the power back door main SW in the instrument panel of driver's seat part in ON.

2. Consideration of Safety

(1) The power back door touch sensor is adopted.
If the power back door touch sensor which is arranged on the end of the back door detect something pinching or obstacle during the automatic operation, the door will be reversed in full open direction.

(2) If something pinching or obstacle in the back door is detected by speed change of the move of the back door during the automatic operation, the door will be reversed in opposite direction of the advance direction.

(3) If the remote control SW or the satellite SW is operated for someone feel danger, etc. during the automatic operation, the door will be reversed in opposite direction of the advance direction.

Service Hints

Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
4, 5-Ground : Always continuity

P13 (A), P14 (B) Power Back Door ECU

(A)10, (B) 2-Ground : Always approx. 12 volts
(A) 9-Ground : Approx. 12 volts with the ignition SW at ON position
(B) 8-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	F12 G	32	J41	39
A21	34	J1	33	K1	33
B6 A	34	J3 A	36	K4	36
B7 B	34	J4 B	36	P1	33
B8 C	34	J11 A	36	P7	37
B9 D	34	J12 B	36	P12	39
B10	38	J13 A	36	P13 A	39
B12	38	J14 B	36	P14 B	39
C10	35	J18	36	P15	39
D4	35	J19	36	P16	39
E4 A	35	J20	36	P17	39
E5 B	35	J37	39	S13	40
F6 A	32	J40	39	T7	37

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

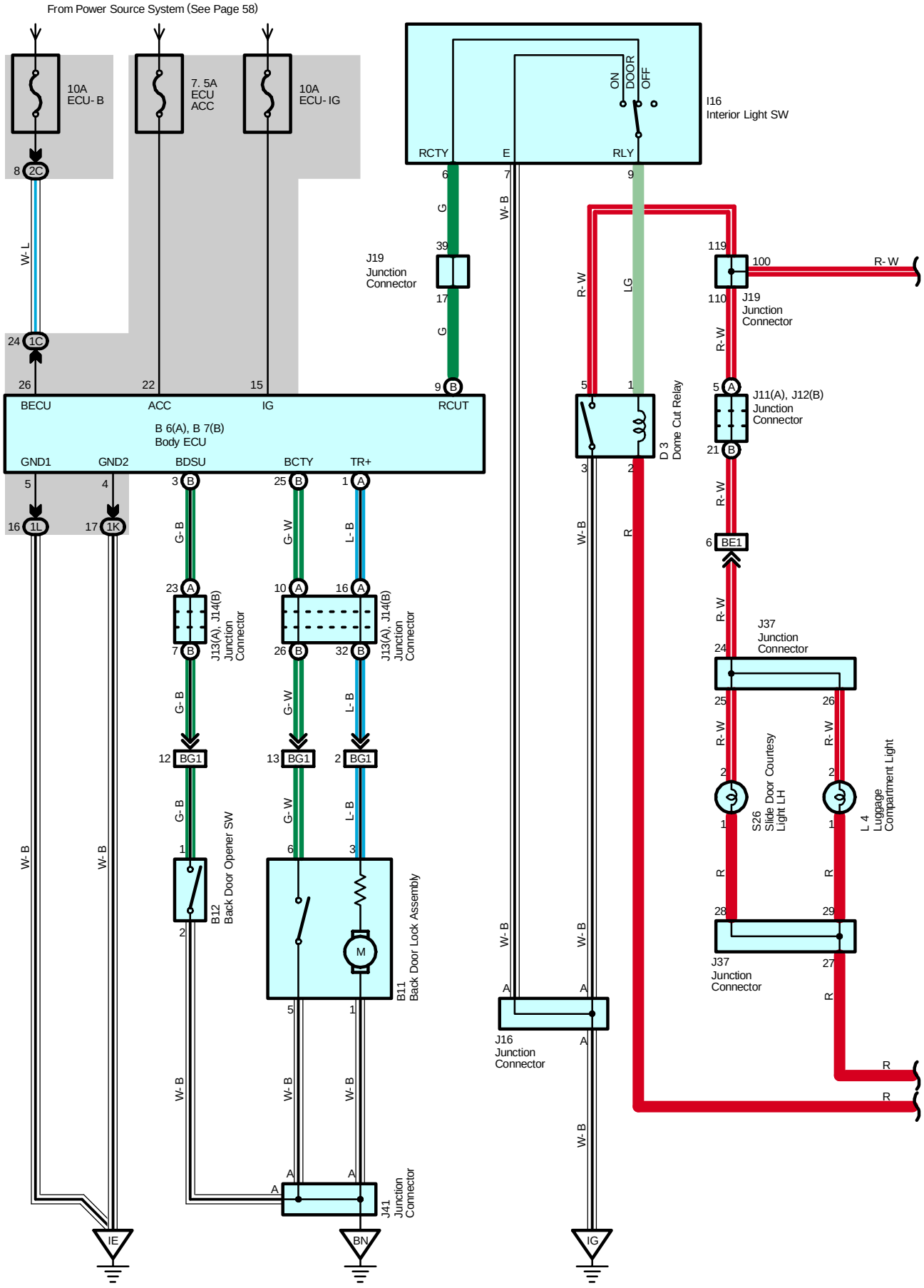
: Connector Joining Wire Harness and Wire Harness

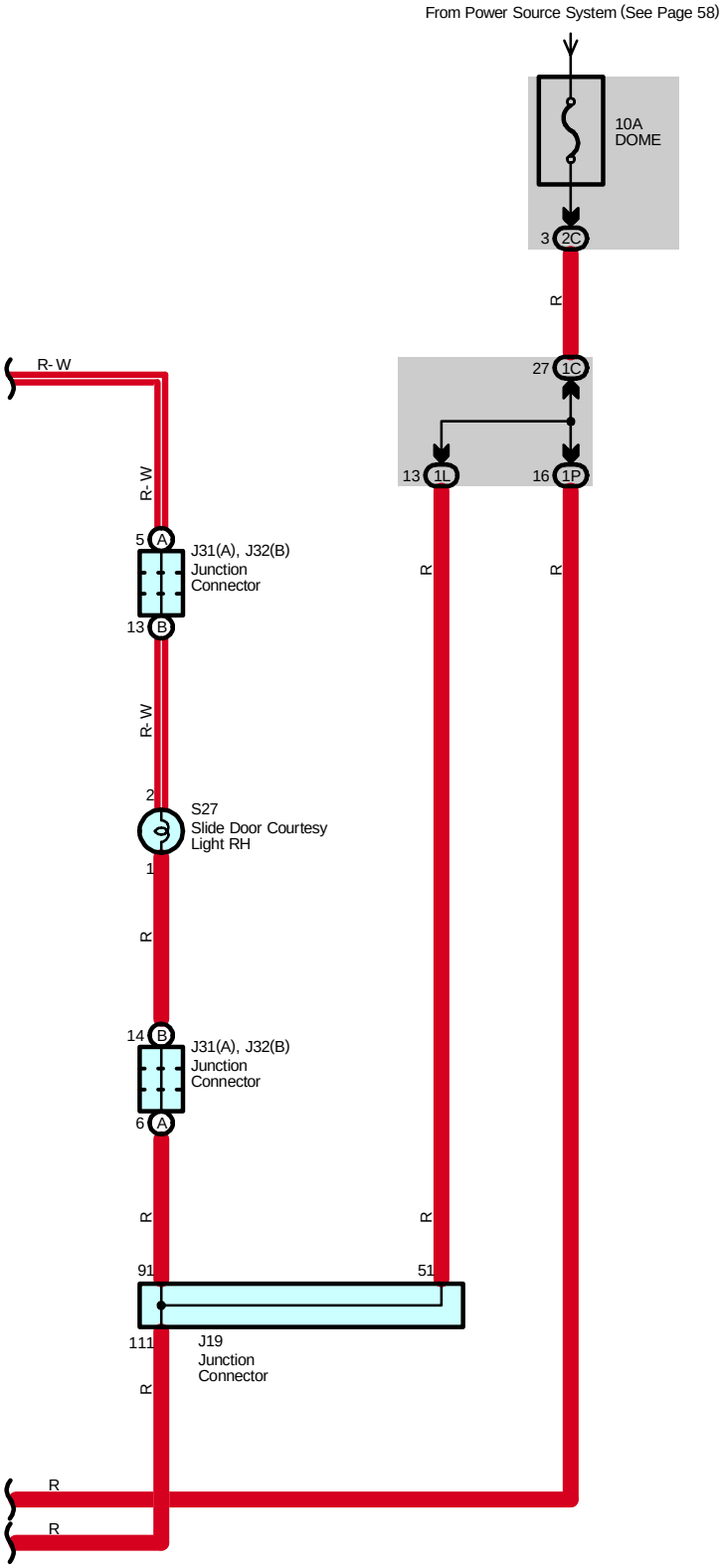
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	46	Engine Room Main Wire and Floor No.1 Wire (Left Cowl Side Panel)
ID1	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
BE1	50	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BF1		
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BG3		
BH1	52	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
IE	46	Left Kick Panel
IG	46	Right Kick Panel
BM	50	Left Rear Quarter Panel
BN	50	Left Side of the Back Door

Back Door Opener without Power Back Door




From Power Source System (See Page 58)
10A
DOME
3
2C
R
27
1C
13
1L
16
1P
R
R
R- W
R- W
5
A
J31(A), J32(B)
Junction
Connector
13
B
R- W
2
S27
Slide Door Courtesy
Light RH
1
R
14
B
J31(A), J32(B)
Junction
Connector
6
A
R
R
91
51
111
J19
Junction
Connector
R
R
R

Back Door Opener without Power Back Door

Service Hints

Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B6 A	34	J12 B	36	J37	39
B7 B	34	J13 A	36	J41	39
B11	38	J14 B	36	L4	39
B12	38	J16	36	S26	40
D3	35	J19	36	S27	40
I16	35	J31 A	36		
J11 A	36	J32 B	36		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1K	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

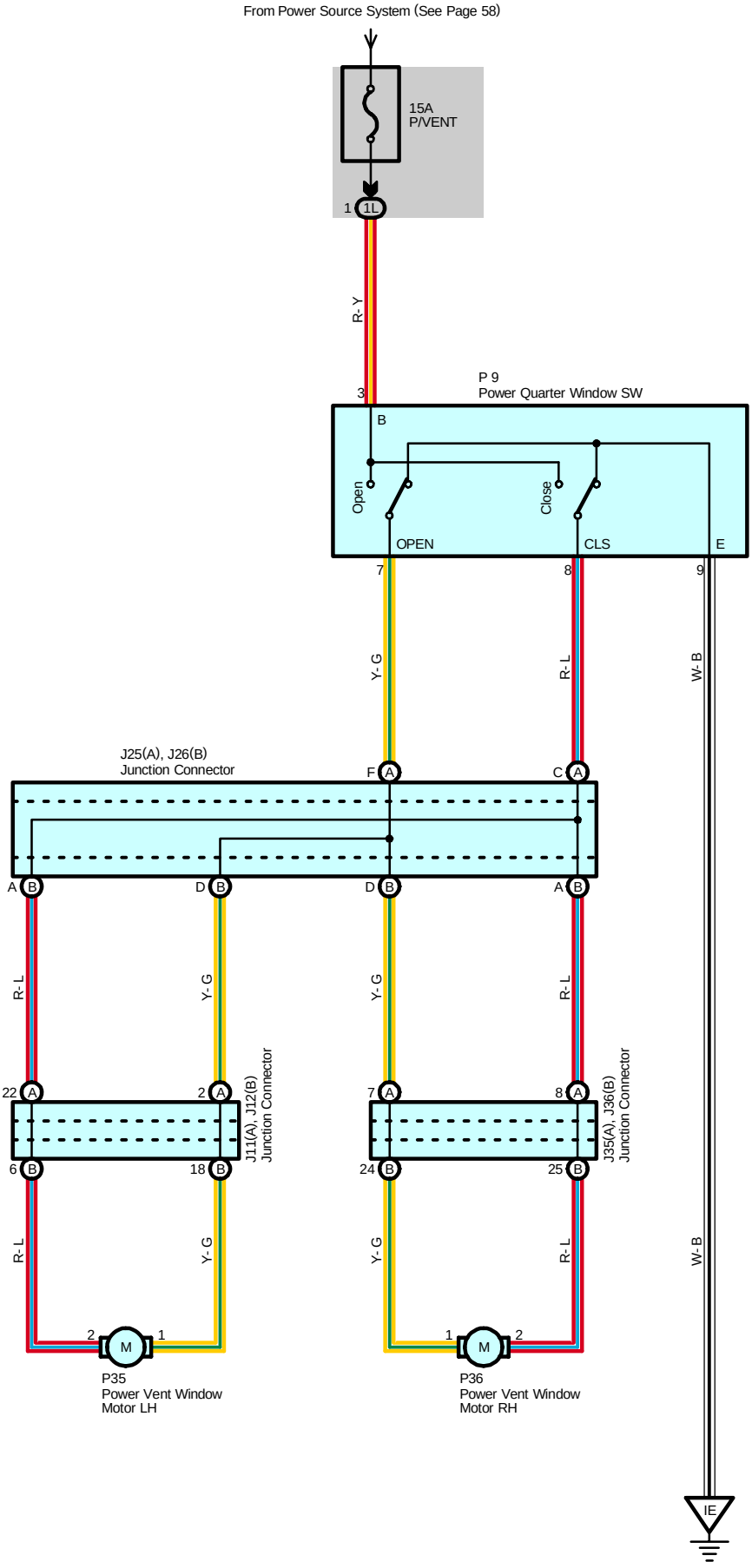
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	50	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel
IG	46	Right Kick Panel
BN	50	Left Side of the Back Door

Power Rear Quarter Window



Service Hints

P9 Power Quarter Window SW

3-Ground : Approx. 12 volts with the ignition SW at ON position or key off quarter window operation

9-Ground : Always continuity

: Parts Location

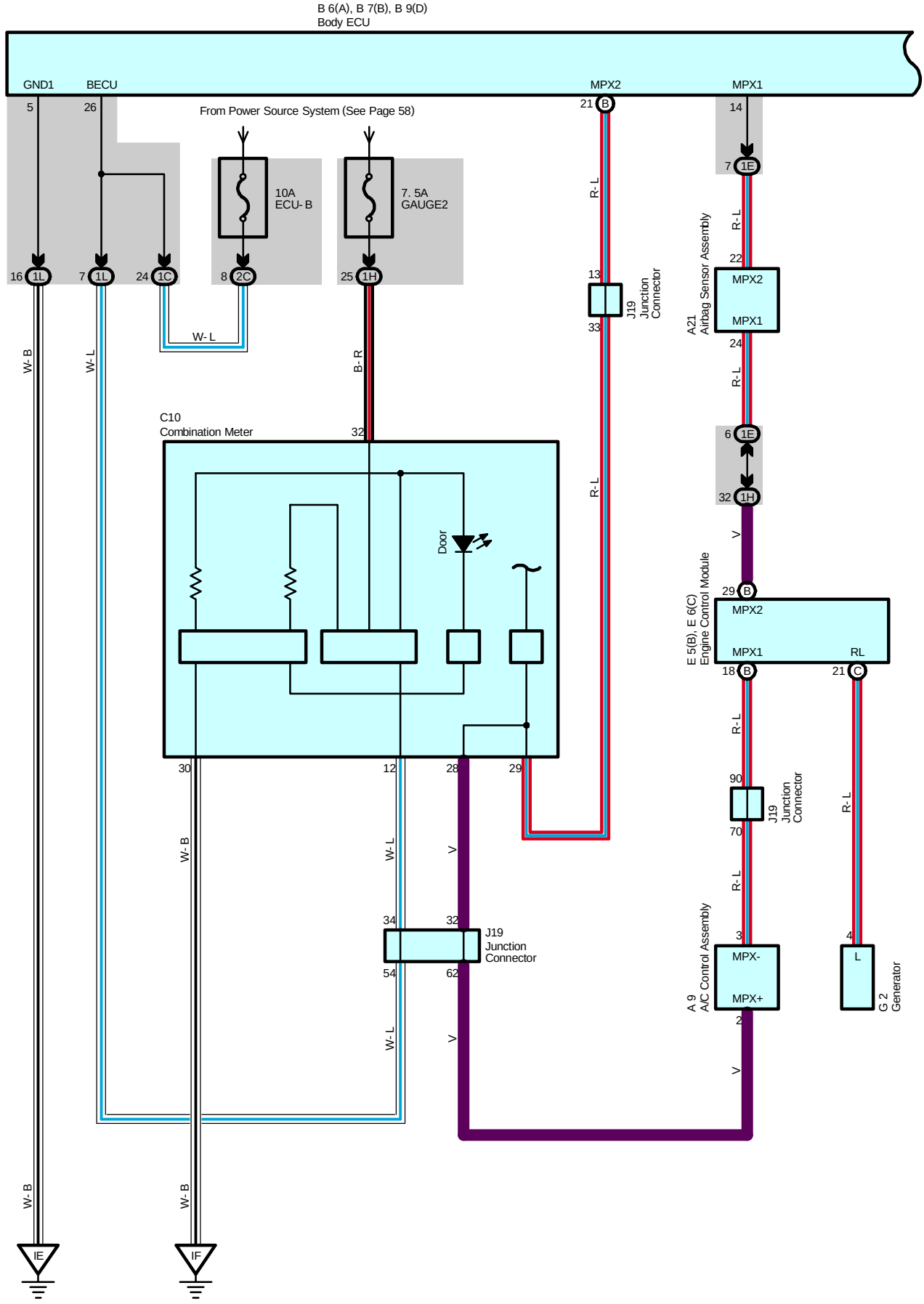
Code		See Page	Code		See Page	Code	See Page
J11	A	36	J26	B	36	P9	37
J12	B	36	J35	A	36	P35	39
J25	A	36	J36	B	36	P36	39

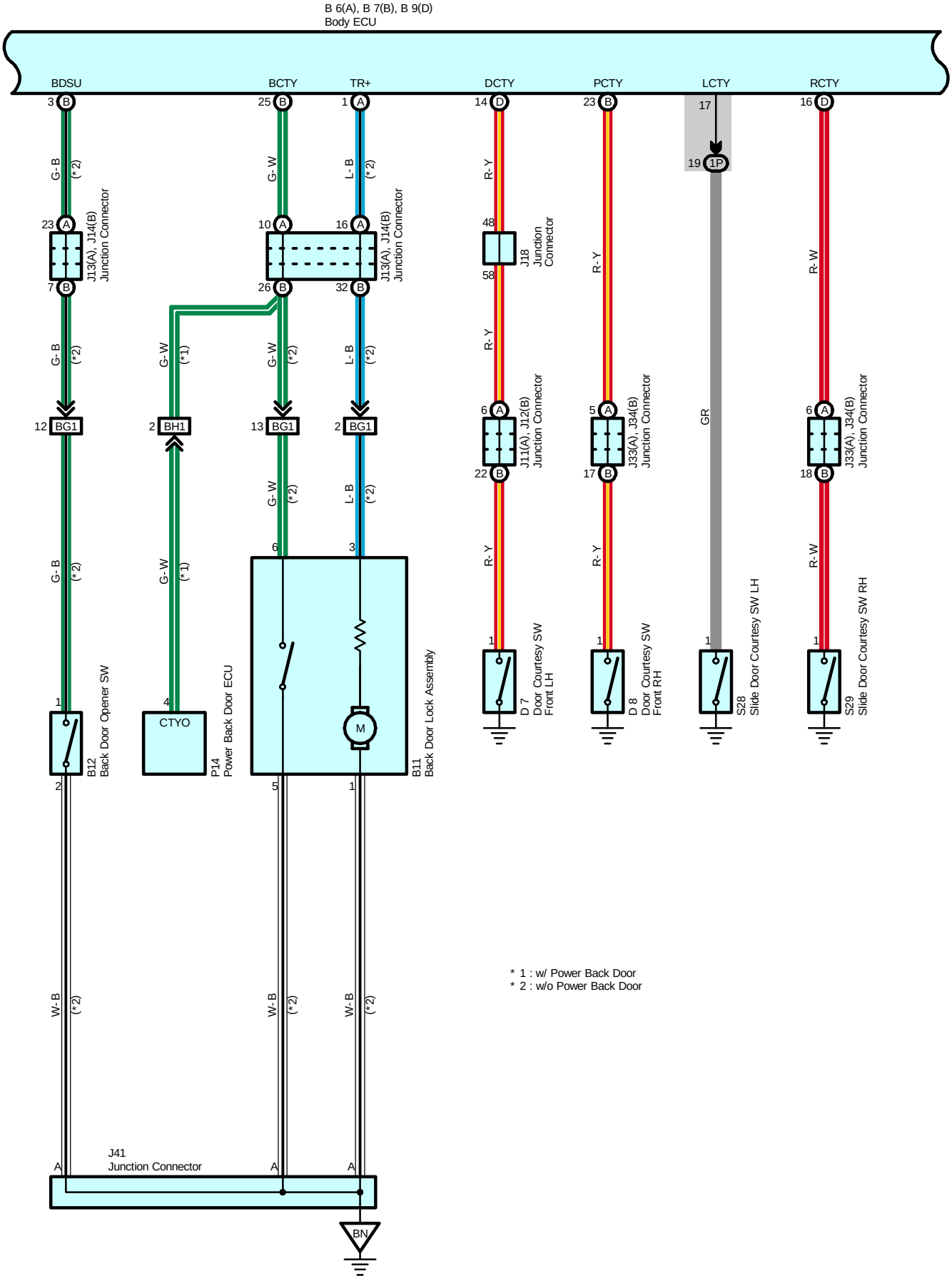
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

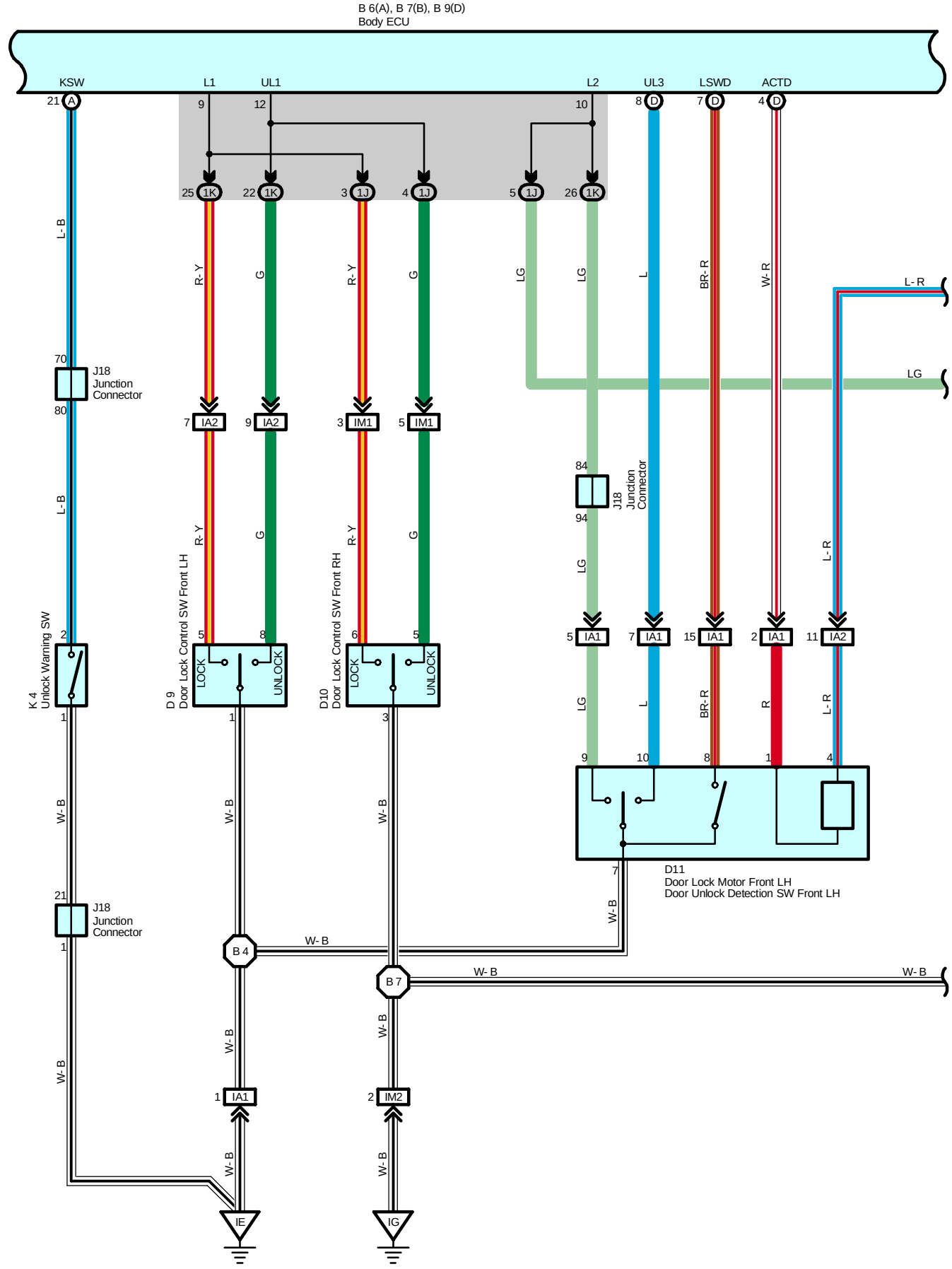
: Ground Points

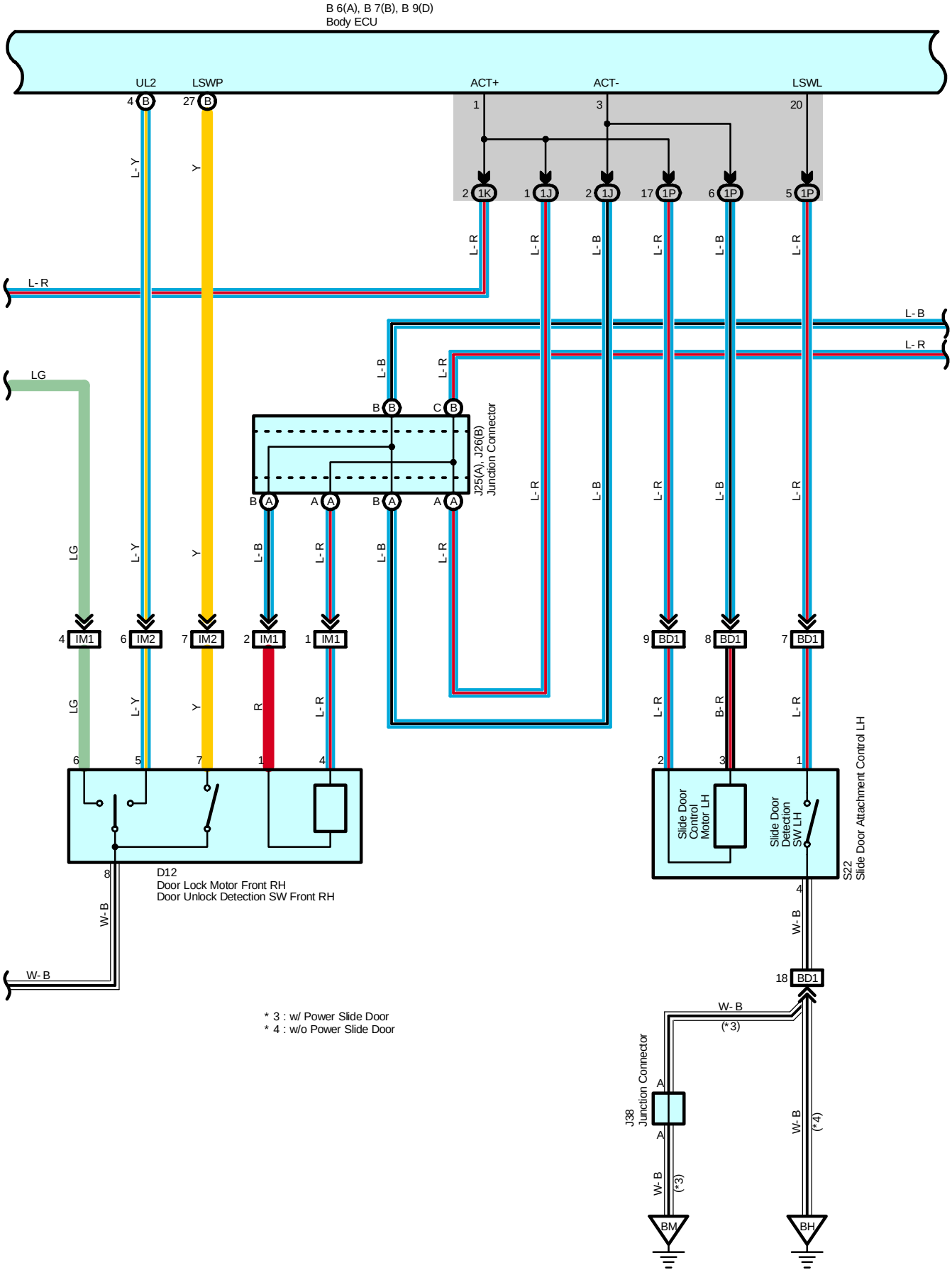
Code	See Page	Ground Points Location
IE	46	Left Kick Panel


B 6(A), B 7(B), B 9(D)
Body ECU
GND1
BECU
MPX2
MPX1
From Power Source System (See Page 58)
10A
ECU- B
7. 5A
GAUGE2
W- B
W- L
B- R
R- L
V
C10
Combination Meter
Door
J19
Junction
Connector
A21
Airbag Sensor Assembly
E 5(B), E 6(C)
Engine Control Module
A 9
A/C Control Assembly
G 2
Generator
IE
IF

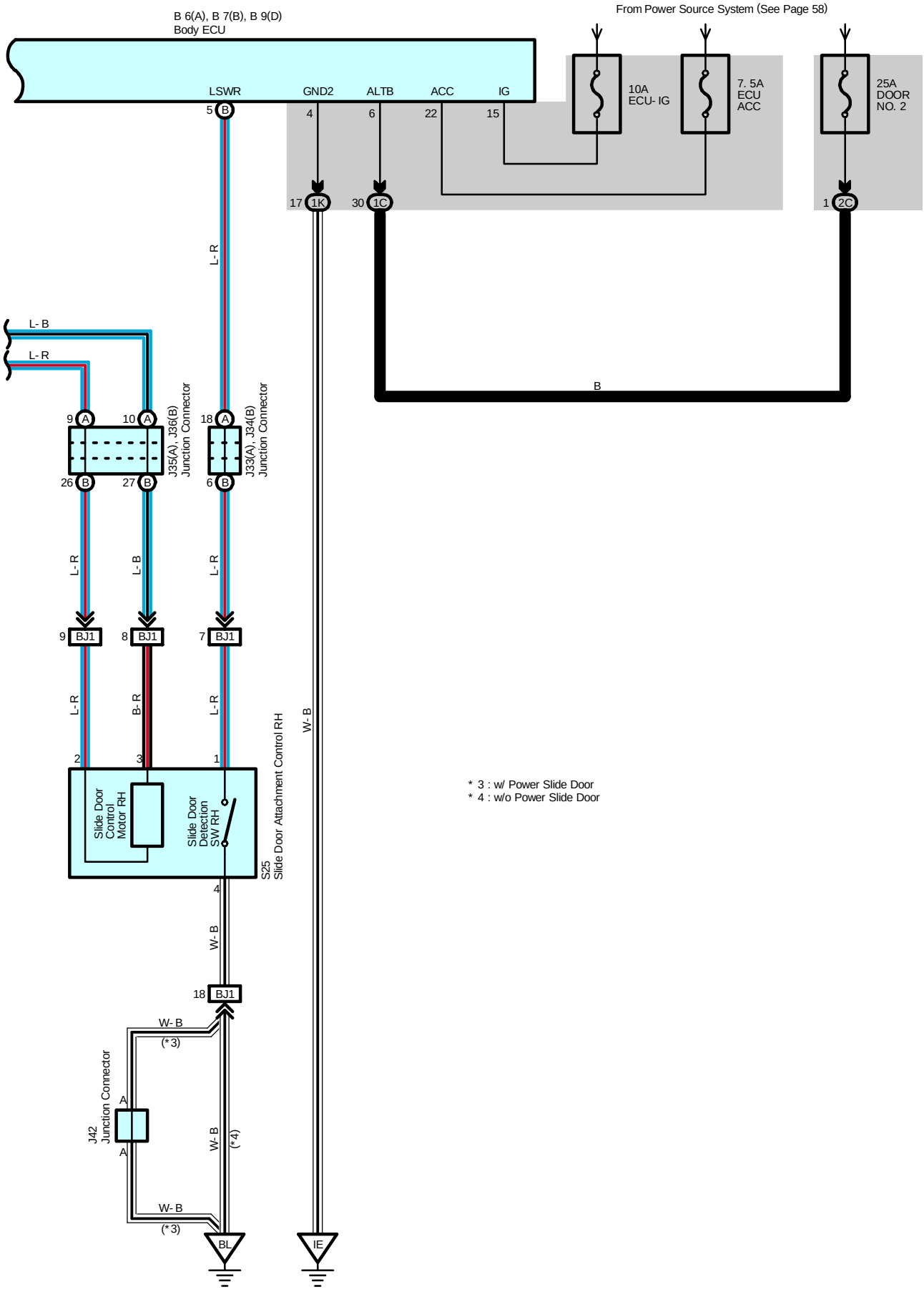

B 6(A), B 7(B), B 9(D)
Body ECU
BDSU
BCTY
TR+
DCTY
PCTY
LCTY
RCTY
G-B
G-W
L-B
R-Y
R-W
GR
W-B
(*1)
(*2)
J13(A), J14(B) Junction Connector
J18 Junction Connector
J11(A), J12(B) Junction Connector
J33(A), J34(B) Junction Connector
BG1
BH1
CTYO
M
B12 Back Door Opener SW
P14 Power Back Door ECU
B11 Back Door Lock Assembly
D 7 Door Courtesy SW Front LH
D 8 Door Courtesy SW Front RH
S28 Slide Door Courtesy SW LH
S29 Slide Door Courtesy SW RH
J41 Junction Connector
BN
* 1 : w/ Power Back Door
* 2 : w/o Power Back Door

Door Lock Control




B 6(A), B 7(B), B 9(D)
Body ECU
UL2
LSWP
ACT+
ACT-
LSWL
J25(A), J26(B)
Junction Connector
D12
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
Slide Door Control Motor LH
Slide Door Detection SW LH
S22
Slide Door Attachment Control LH
J38
Junction Connector
* 3 : w/ Power Slide Door
* 4 : w/o Power Slide Door

Door Lock Control



Service Hints

B7 (B), B9 (D) Body ECU

6, 26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity
(D)14-Ground : Continuity with the front LH door open
(B)23-Ground : Continuity with the front RH door open

D7, D8 Door Courtesy SW Front LH, RH

1-Ground : Closed with each door open

K4 Unlock Warning SW

1-2 : Closed with the ignition key in cylinder

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	D12	38	J34 B	36
A21	34	E5 B	35	J35 A	36
B6 A	34	E6 C	35	J36 B	36
B7 B	34	G2	32	J38	39
B9 D	34	J11 A	36	J41	39
B11	38	J12 B	36	J42	39
B12	38	J13 A	36	K4	36
C10	35	J14 B	36	P14	39
D7	38	J18	36	S22	40
D8	38	J19	36	S25	40
D9	38	J25 A	36	S28	40
D10	38	J26 B	36	S29	40
D11	38	J33 A	36		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1J	27	
1K		
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
BD1	50	Rear Door No.2 Wire and Floor No.1 Wire (On the Left Rear Wheel House)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BH1	52	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BJ1	52	Rear Door No.1 Wire and Floor No.2 Wire (On the Right Rear Wheel House)

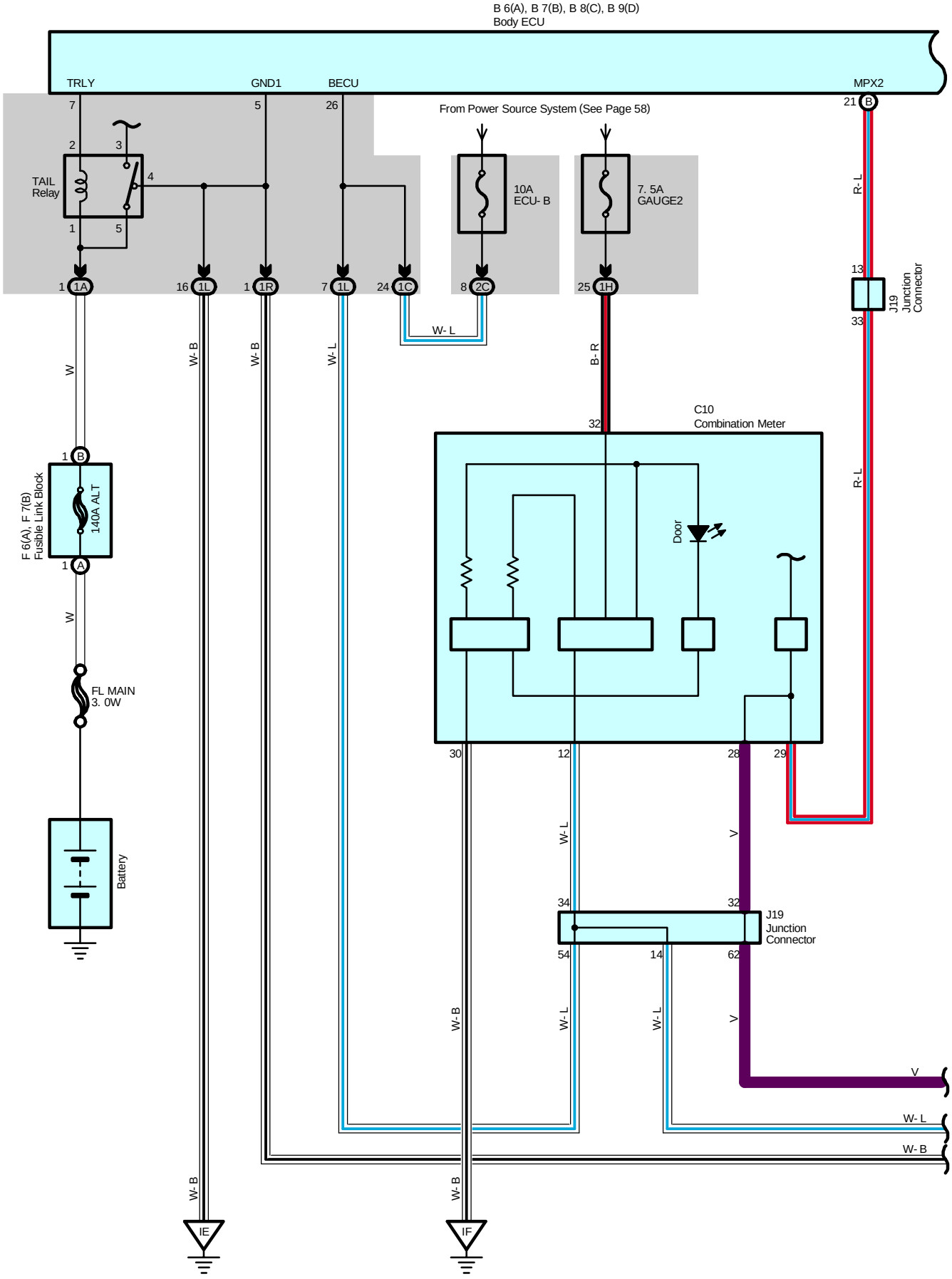
Door Lock Control

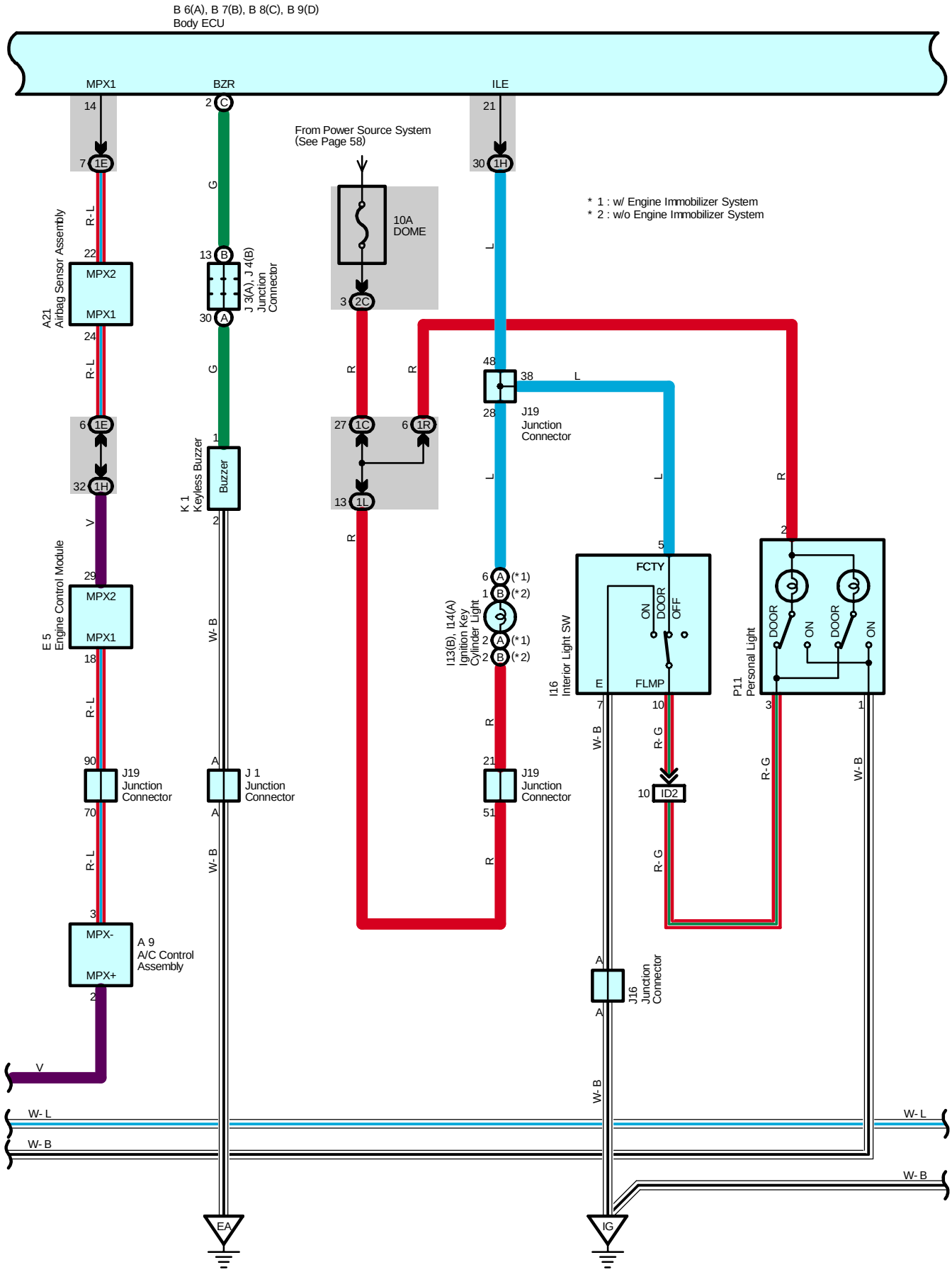
 : **Ground Points**

Code	See Page	Ground Points Location
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel
BH	50	Under the Left Center Pillar
BL	50	Right Rear Quarter Panel
BM	50	Left Rear Quarter Panel
BN	50	Left Side of the Back Door

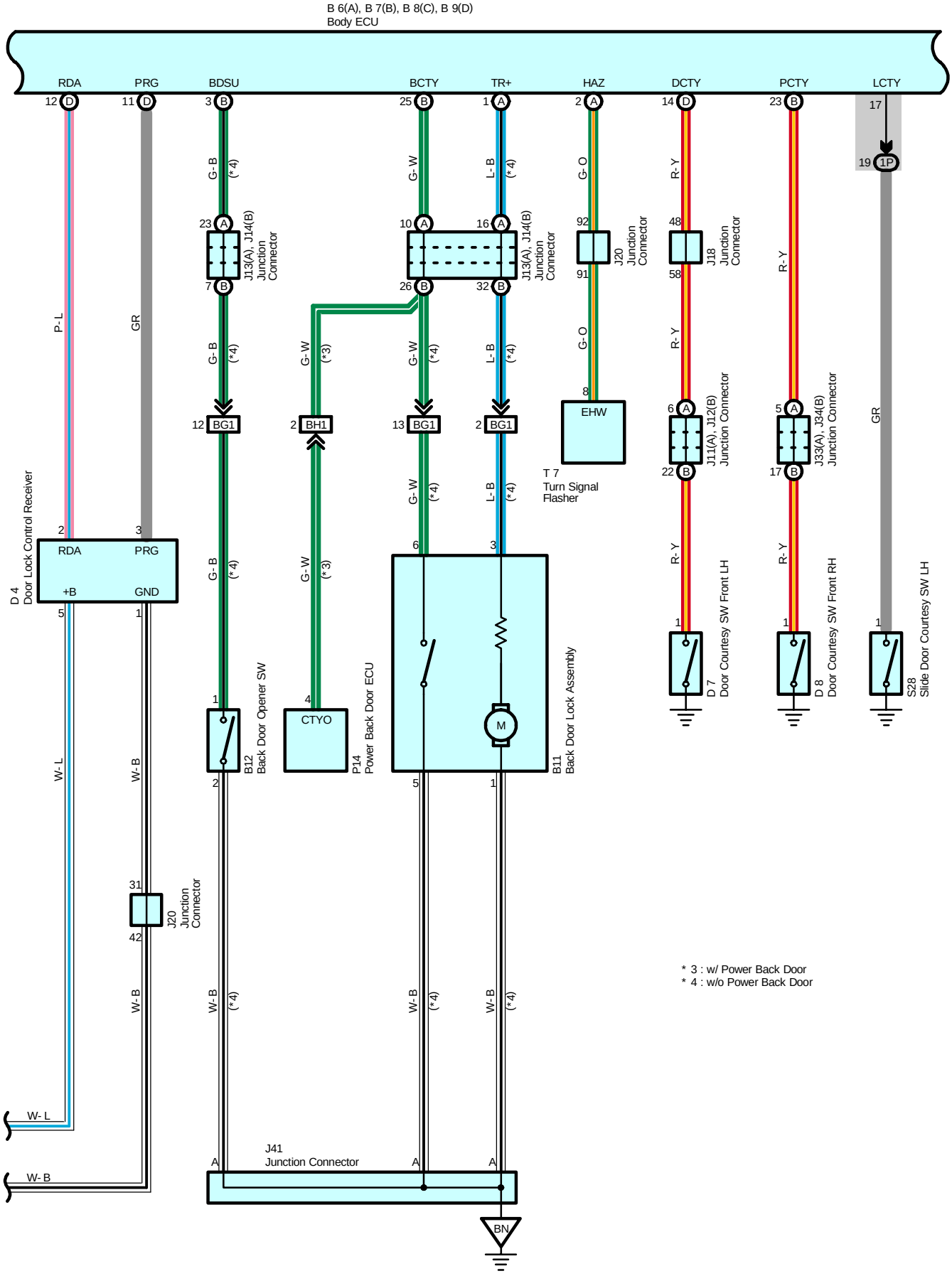
 : **Splice Points**

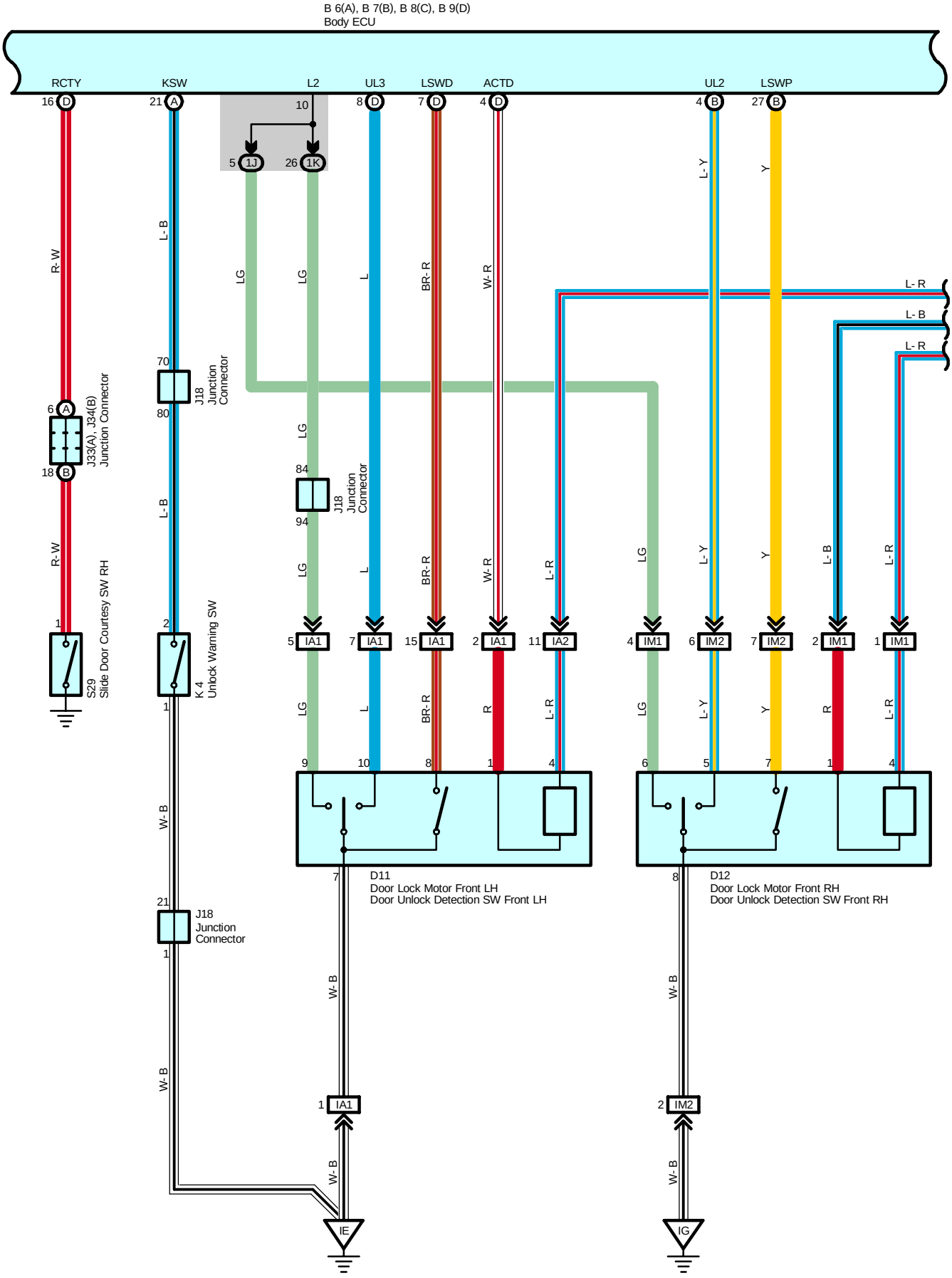
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B4	52	Front Door LH Wire	B7	52	Front Door RH Wire

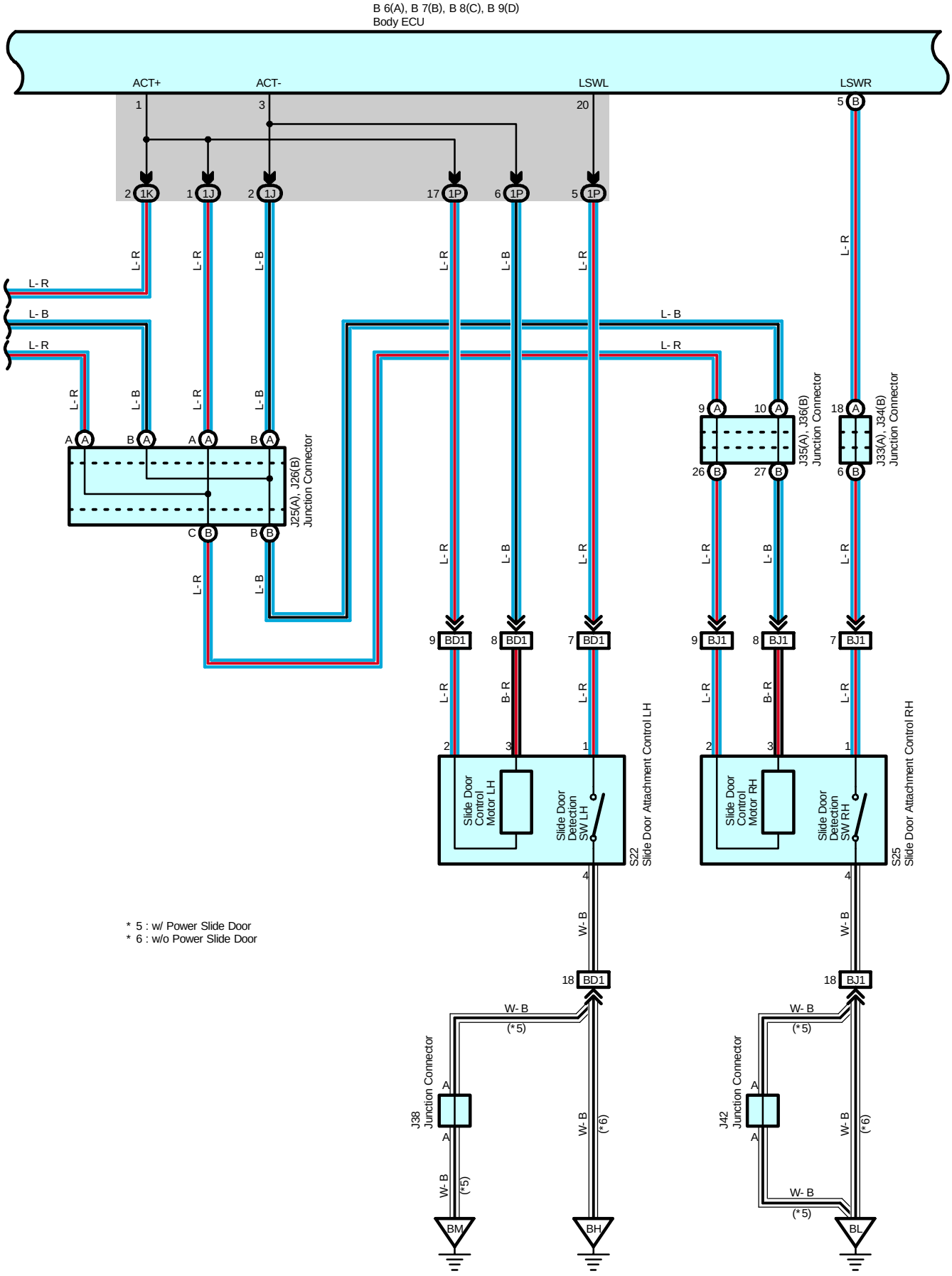

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
TRLY
GND1
BECU
MPX2
From Power Source System (See Page 58)
TAIL
Relay
10A
ECU- B
7. 5A
GAUGE2
J19
Junction
Connector
C10
Combination Meter
Door
F 6(A), F 7(B)
Fusible Link Block
140A ALT
FL MAIN
3. 0W
Battery
W
W- B
W- L
B- R
R- L
V
IE
IF

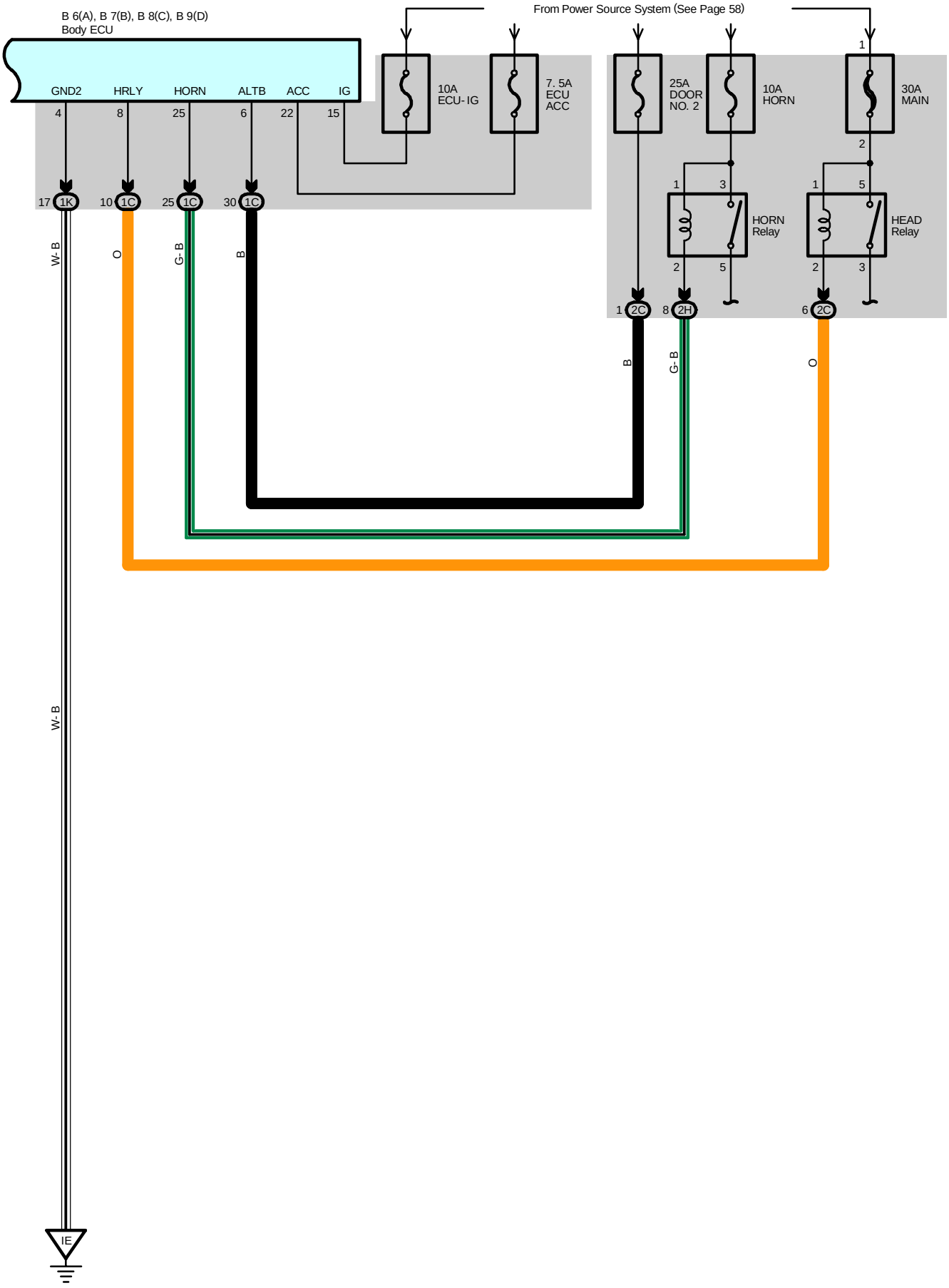

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
MPX1
BZR
ILE
From Power Source System
(See Page 58)
10A
DOME
* 1 : w/ Engine Immobilizer System
* 2 : w/o Engine Immobilizer System
A21
Airbag Sensor Assembly
J 3(A), J 4(B)
Junction
Connector
K 1
Keyless Buzzer
Buzzer
J19
Junction
Connector
E 5
Engine Control Module
J 1
Junction
Connector
I13(B), I14(A)
Ignition Key
Cylinder Light
I16
Interior Light SW
FCTY
ON
DOOR
OFF
FLMP
P11
Personal Light
DOOR
ON
DOOR
ON
ID2
J16
Junction
Connector
A 9
A/C Control
Assembly
MPX-
MPX+
MPX2
MPX1
EA
IG
W- L
W- B

Wireless Door Lock Control




B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
RCTY
KSW
L2
UL3
LSWD
ACTD
UL2
LSWP
16 D
21 A
10
8 D
7 D
4 D
4 B
27 B
5 1J
26 1K
L- Y
Y
R- W
L- B
LG
LG
L
BR- R
W- R
L- R
L- B
L- R
70
J18
Junction
Connector
80
6 A
18 B
J33(A), J34(B)
Junction Connector
84
J18
Junction
Connector
94
R- W
L- B
LG
L
BR- R
W- R
L- R
LG
L- Y
Y
L- B
L- R
1
2
5 IA1
7 IA1
15 IA1
2 IA1
11 IA2
4 IM1
6 IM2
7 IM2
2 IM1
1 IM1
S29
Slide Door Courtesy SW RH
K 4
Unlock Warning SW
LG
L
BR- R
R
L- R
LG
L- Y
Y
R
L- R
9
10
8
1
4
6
5
7
1
4
W- B
7
D11
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
8
D12
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
21
J18
Junction
Connector
1
W- B
W- B
1 IA1
2 IM2
W- B
W- B
IE
IG


B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
ACT+
ACT-
LSWL
LSWR
J25(A), J26(B) Junction Connector
J35(A), J36(B) Junction Connector
J33(A), J34(B) Junction Connector
Slide Door Control Motor LH
Slide Door Detection SW LH
S22 Slide Door Attachment Control LH
Slide Door Control Motor RH
Slide Door Detection SW RH
S25 Slide Door Attachment Control RH
J38 Junction Connector
J42 Junction Connector
* 5 : w/ Power Slide Door
* 6 : w/o Power Slide Door


B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
GND2
HRLY
HORN
ALTB
ACC
IG
4
8
25
6
22
15
From Power Source System (See Page 58)
10A
ECU- IG
7. 5A
ECU
ACC
25A
DOOR
NO. 2
10A
HORN
30A
MAIN
1
2
1
3
HORN
Relay
1
5
HEAD
Relay
2
5
2
3
17 1K
10 1C
25 1C
30 1C
1 2C
8 2H
6 2C
W- B
O
G- B
B
B
G- B
O
W- B
IE

Wireless Door Lock Control

Service Hints

B7 (B), B 9 (D) Body ECU

6, 26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity
(D)14-Ground : Continuity with the front LH door open
(B)23-Ground : Continuity with the front RH door open

D7, D8 Door Courtesy SW Front LH, RH

1-Ground : Closed with each door open

K4 Unlock Warning SW

2-1 : Closed with the ignition key in the cylinder

D4 Door Lock Control Receiver

5-Ground : Always approx. 12 volts
1-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	I13 B	35	J34 B	36
A21	34	I14 A	35	J35 A	36
B6 A	34	I16	35	J36 B	36
B7 B	34	J1	33	J38	39
B8 C	34	J3 A	36	J41	39
B9 D	34	J4 B	36	J42	39
B11	38	J11 A	36	K1	33
B12	38	J12 B	36	K4	36
C10	35	J13 A	36	P11	39
D4	35	J14 B	36	P14	39
D7	38	J16	36	S22	40
D8	38	J18	36	S25	40
D11	38	J19	36	S28	40
D12	38	J20	36	S29	40
E5	35	J25 A	36	T7	37
F6 A	32	J26 B	36		
F7 B	32	J33 A	36		

▭ : Junction Block and Wire Harness Connector

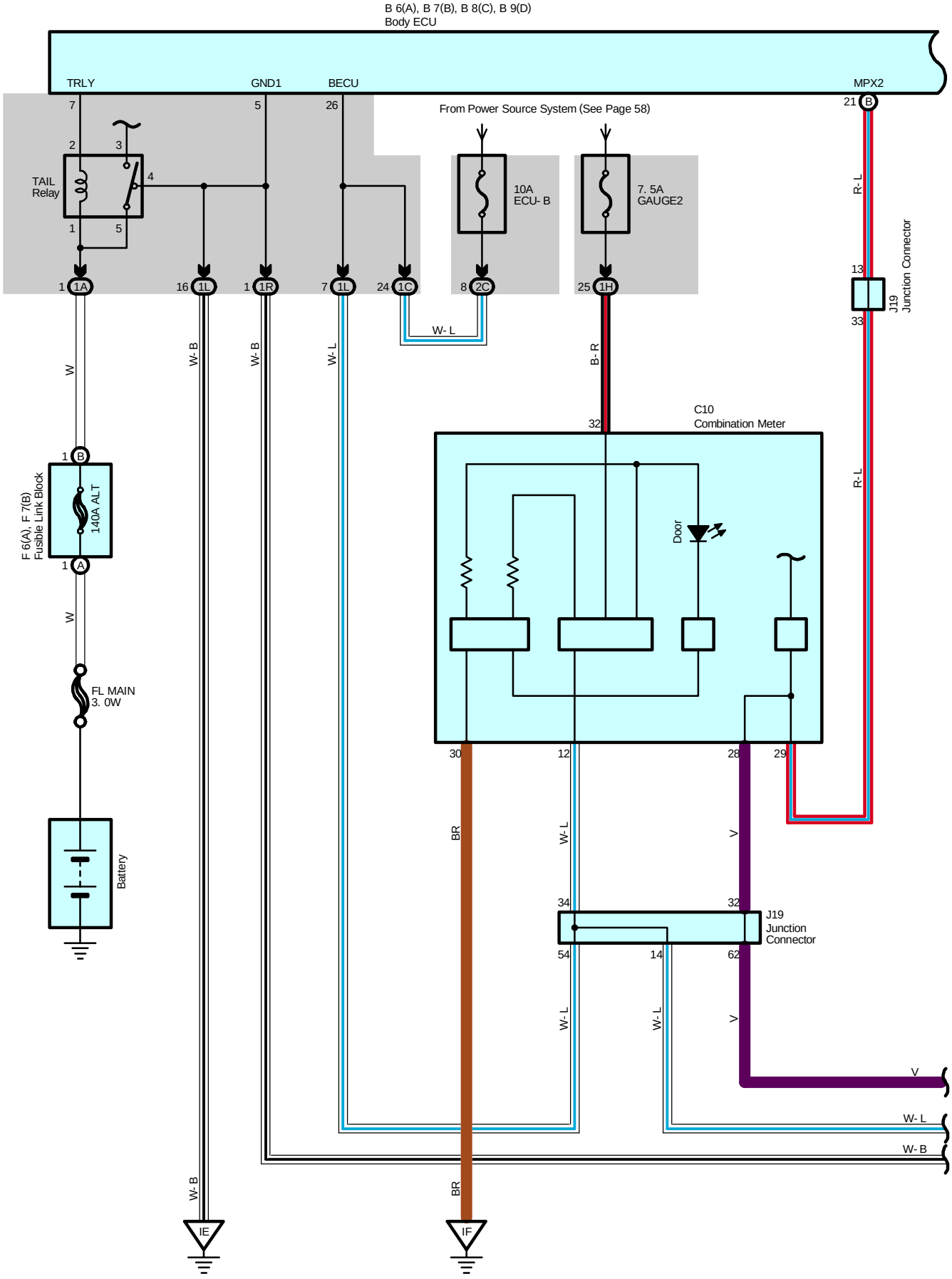
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1J	27	
1K		
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		

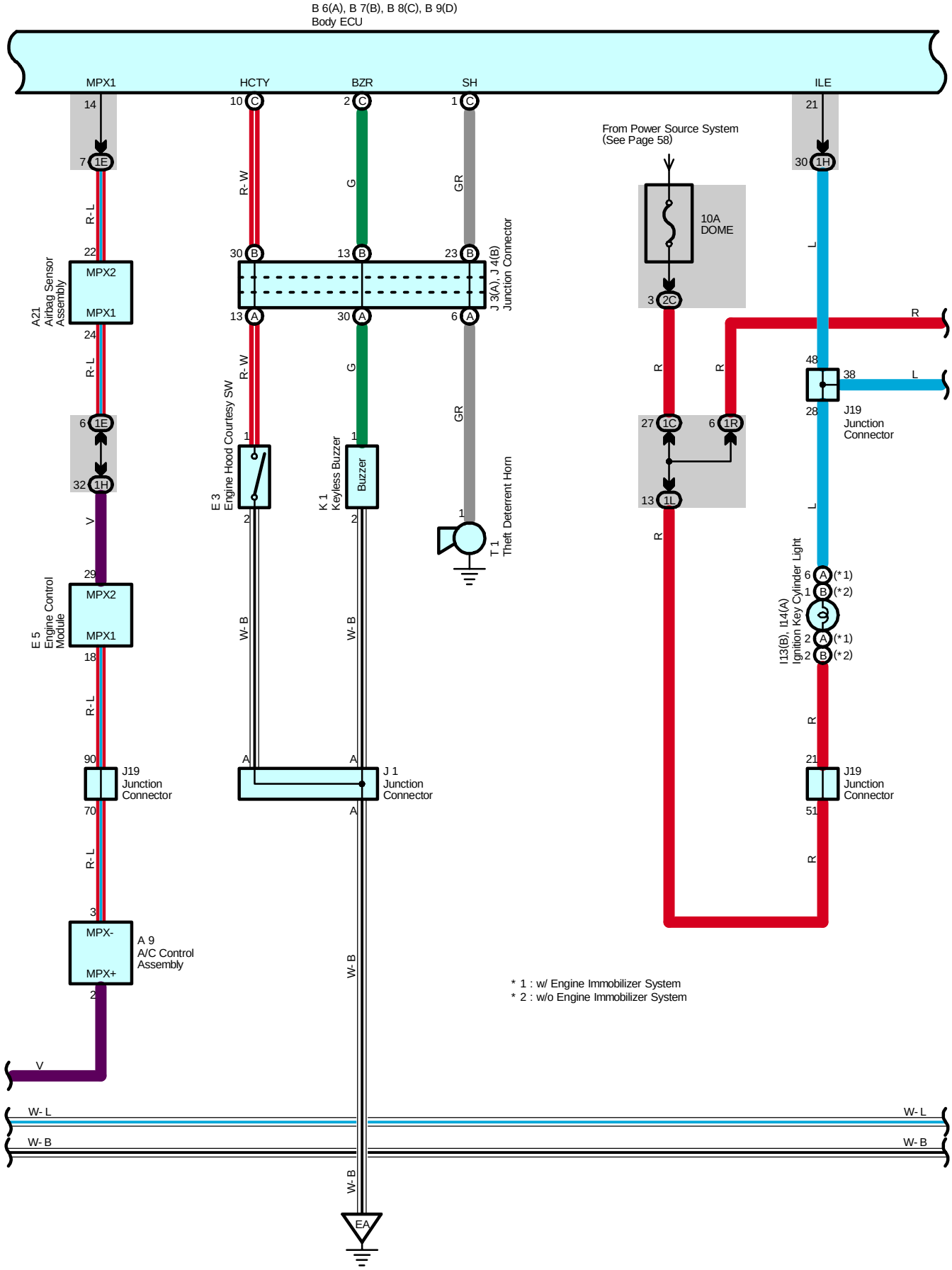
: **Connector Joining Wire Harness and Wire Harness**

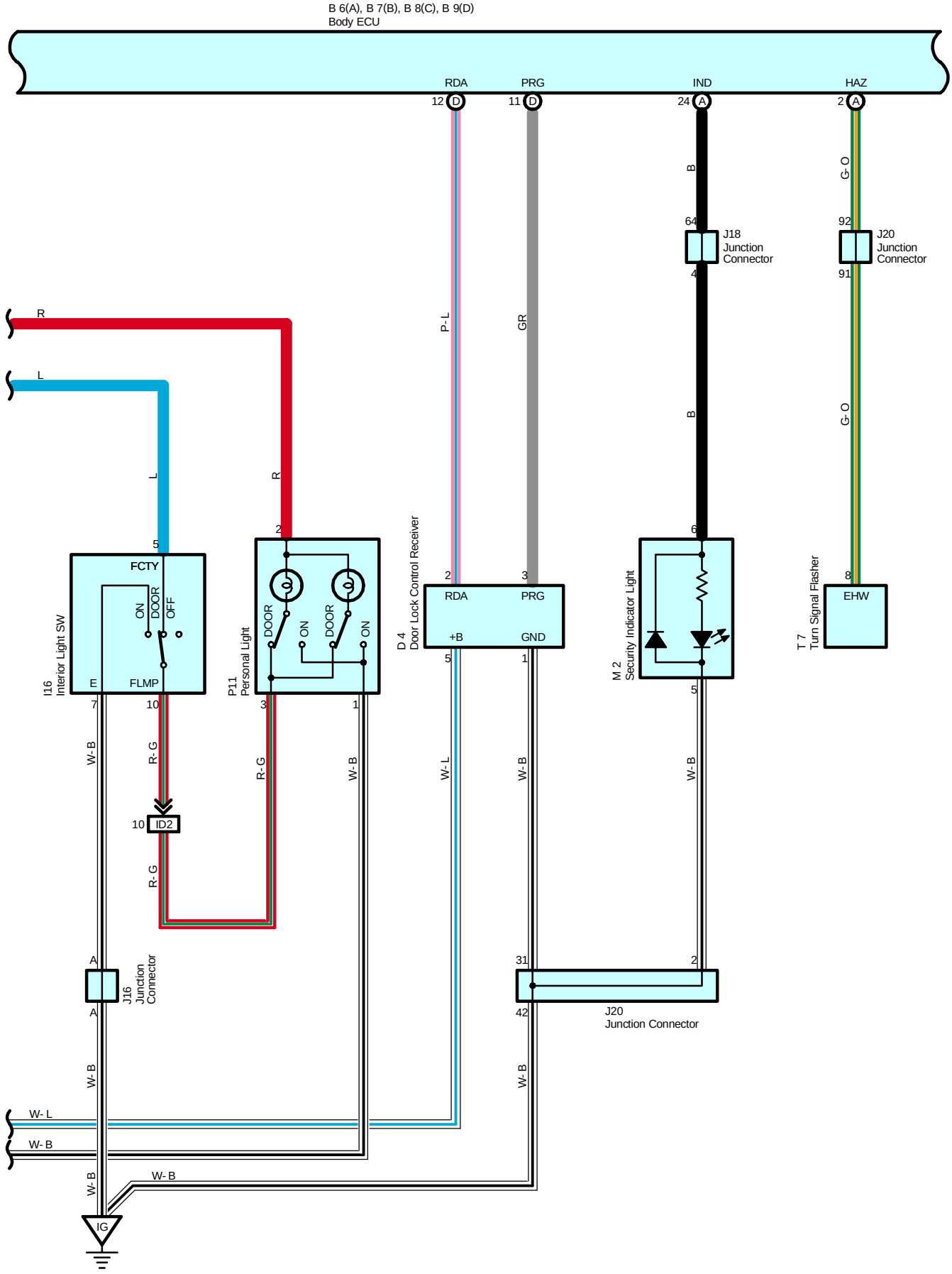
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
ID2	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
BD1	50	Rear Door No.2 Wire and Floor No.1 Wire (On the Left Rear Wheel House)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BH1	52	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BJ1	52	Rear Door No.1 Wire and Floor No.2 Wire (On the Right Rear Wheel House)

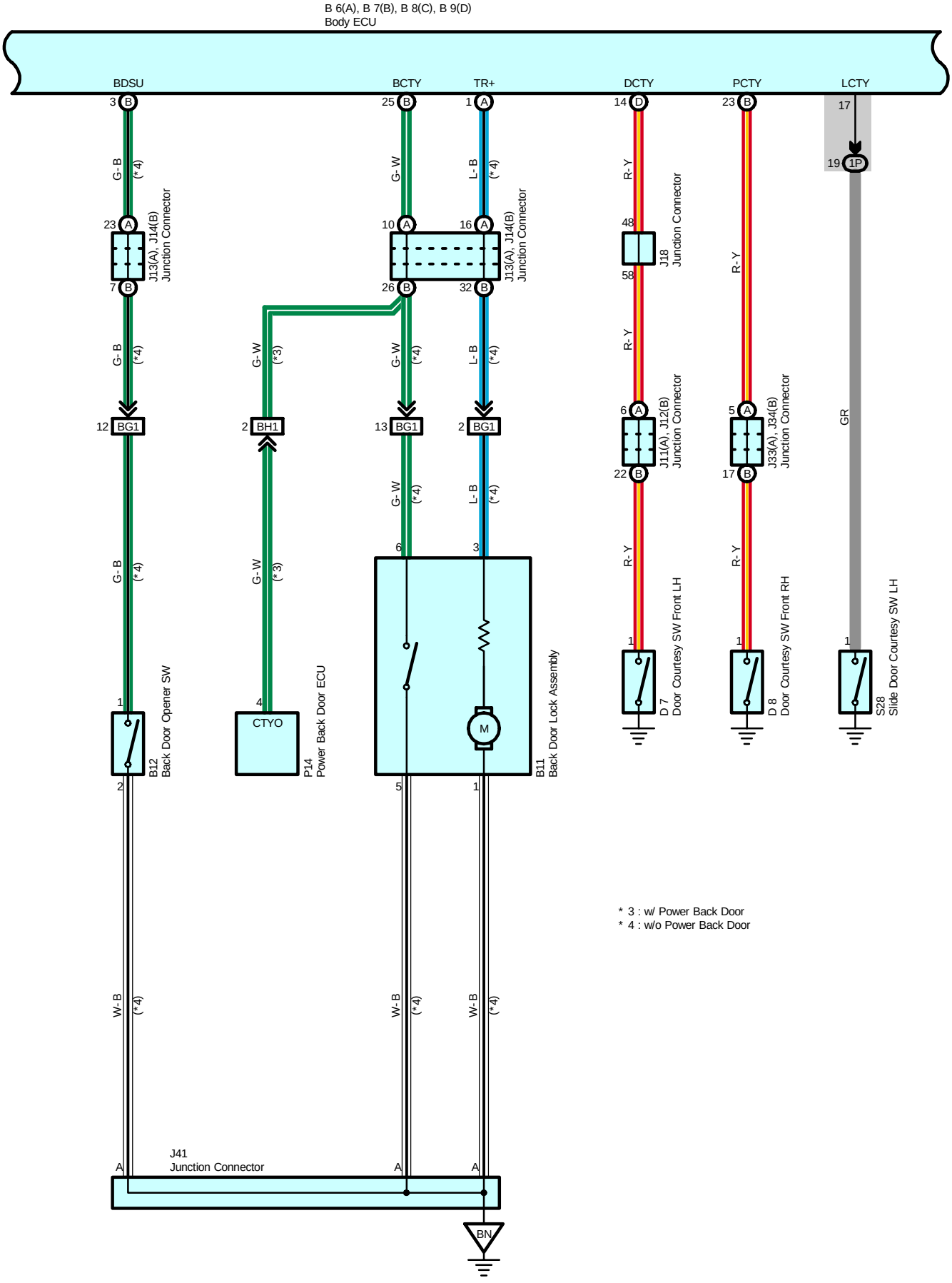
: **Ground Points**

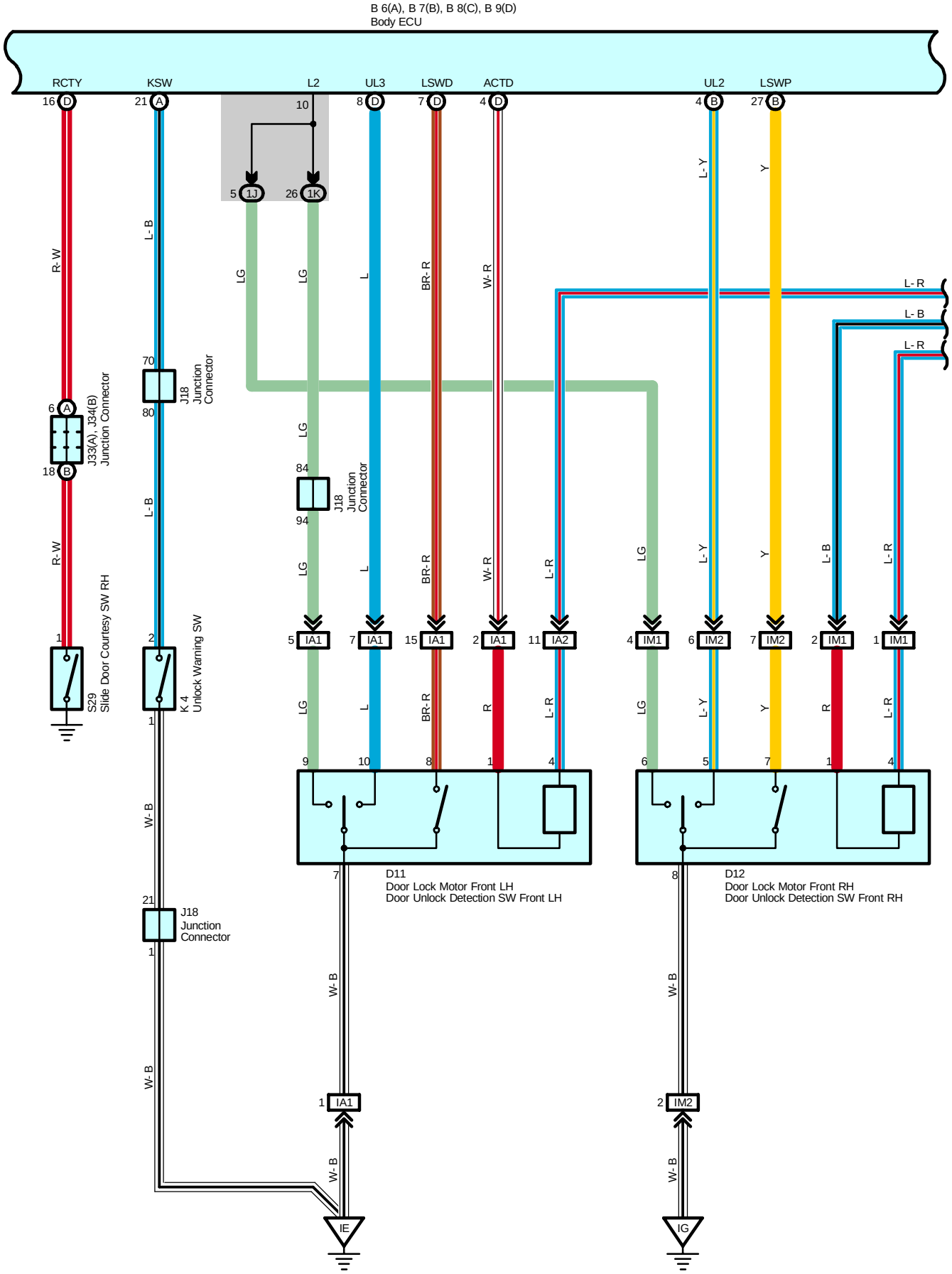
Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel
BH	50	Under the Left Center Pillar
BL	50	Right Rear Quarter Panel
BM	50	Left Rear Quarter Panel
BN	50	Left Side of the Back Door

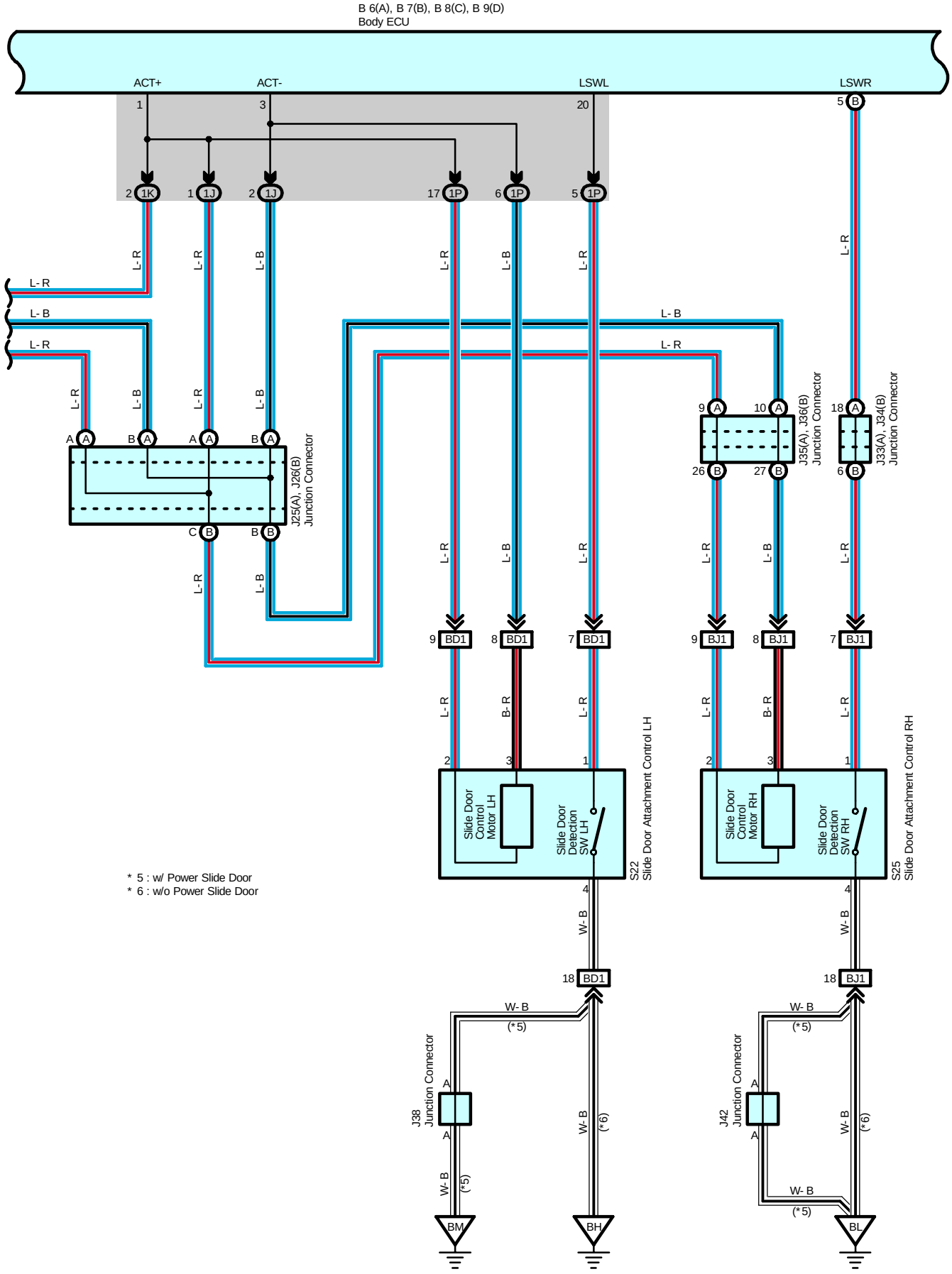

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
TRLY
GND1
BECU
MPX2
From Power Source System (See Page 58)
TAIL
Relay
10A
ECU- B
7. 5A
GAUGE2
R- L
J19
Junction Connector
W- L
W- B
B- R
C10
Combination Meter
Door
F 6(A), F 7(B)
Fusible Link Block
140A ALT
FL MAIN
3. 0W
Battery
BR
V
J19
Junction
Connector
IE
IF


B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
MPX1
HCTY
BZR
SH
ILE
From Power Source System
(See Page 58)
10A
DOME
A21
Airbag Sensor
Assembly
MPX2
MPX1
J 3(A), J 4(B)
Junction Connector
E 3
Engine Hood Courtesy SW
K 1
Keyless Buzzer
Buzzer
T 1
Theft Deterrent Horn
J19
Junction
Connector
J 1
Junction
Connector
E 5
Engine Control
Module
A 9
A/C Control
Assembly
I13(B), I14(A)
Ignition Key Cylinder Light
EA
* 1 : w/ Engine Immobilizer System
* 2 : w/o Engine Immobilizer System

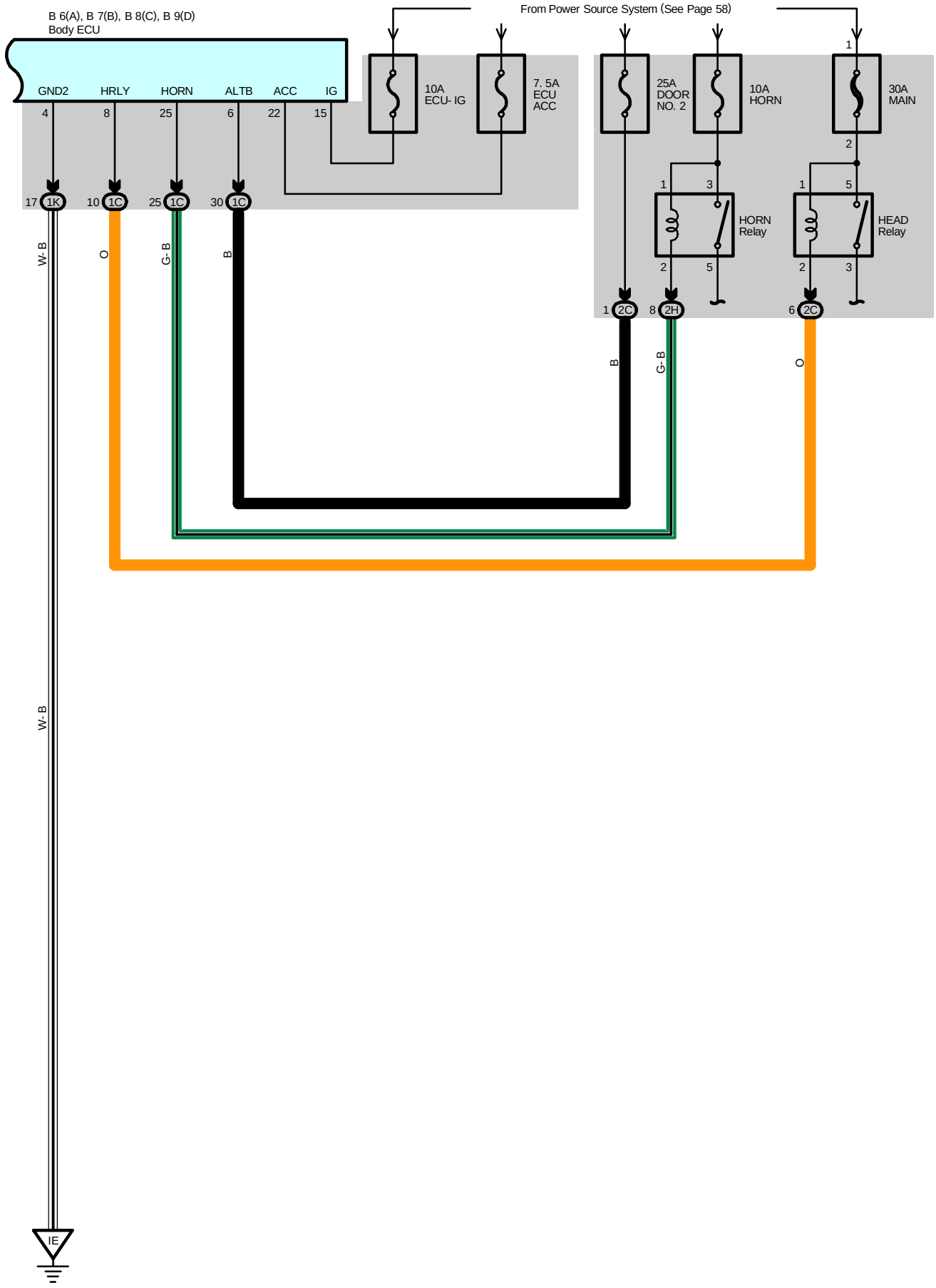

B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
RDA
PRG
IND
HAZ
12 D
11 D
24 A
2 A
B
G-O
64
92
J18
Junction
Connector
4
J20
Junction
Connector
91
R
L
P-L
GR
B
G-O
L
R
5
2
6
FCTY
ON
DOOR
OFF
E
FLMP
I16
Interior Light SW
DOOR
ON
DOOR
ON
P11
Personal Light
D 4
Door Lock Control Receiver
RDA
PRG
+B
GND
M 2
Security Indicator Light
T 7
Turn Signal Flasher
EHW
8
7
10
3
1
2
3
5
1
5
W-B
R-G
R-G
W-B
W-L
W-B
W-B
10 ID2
R-G
A
A
J16
Junction
Connector
31
2
42
J20
Junction Connector
W-B
W-B
W-L
W-B
W-B
IG


B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
BDSU
BCTY
TR+
DCTY
PCTY
LCTY
G-B
G-W
L-B
R-Y
GR
W-B
(*4)
(*3)
J13(A), J14(B)
Junction Connector
J18
Junction Connector
J11(A), J12(B)
Junction Connector
J33(A), J34(B)
Junction Connector
BG1
BH1
CTYO
P14
Power Back Door ECU
B12
Back Door Opener SW
B11
Back Door Lock Assembly
M
D 7
Door Courtesy SW Front LH
D 8
Door Courtesy SW Front RH
S28
Slide Door Courtesy SW LH
J41
Junction Connector
BN
* 3 : w/ Power Back Door
* 4 : w/o Power Back Door


B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
RCTY
KSW
L2
UL3
LSWD
ACTD
UL2
LSWP
16 D
21 A
10
8 D
7 D
4 D
4 B
27 B
5 1J
26 1K
R-W
L-B
LG
L
BR-R
W-R
L-Y
Y
L-R
L-B
70
80
J18 Junction Connector
6 A
18 B
J33(A), J34(B) Junction Connector
84
94
J18 Junction Connector
1
S29 Slide Door Courtesy SW RH
2
K 4 Unlock Warning SW
5 IA1
7 IA1
15 IA1
2 IA1
11 IA2
4 IM1
6 IM2
7 IM2
2 IM1
1 IM1
R
L-R
9
10
8
1
4
6
5
7
D11
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D12
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
W-B
21
J18 Junction Connector
1
7
8
1 IA1
2 IM2
IE
IG


B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
ACT+
ACT-
LSWL
LSWR
1
3
20
5
2 1K
1 1J
2 1J
17 1P
6 1P
5 1P
L- R
L- B
A A
B A
A A
B A
J25(A), J26(B)
Junction Connector
C B
B B
9 A
10 A
26 B
27 B
J35(A), J36(B)
Junction Connector
18 A
6 B
J33(A), J34(B)
Junction Connector
9 BD1
8 BD1
7 BD1
9 BJ1
8 BJ1
7 BJ1
B- R
2
3
1
Slide Door Control Motor LH
Slide Door Detection SW LH
S22
Slide Door Attachment Control LH
Slide Door Control Motor RH
Slide Door Detection SW RH
S25
Slide Door Attachment Control RH
4
W- B
18 BD1
18 BJ1
(*5)
(*6)
J38
Junction Connector
J42
Junction Connector
A
BM
BH
BL
* 5 : w/ Power Slide Door
* 6 : w/o Power Slide Door

Theft Deterrent



Service Hints

Body ECU

6, 26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity

E3 Engine Hood Courtesy SW

1-2 : Opened with engine hood open

K4 Unlock Warning SW

2-1 : Closed with ignition key in cylinder

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	I13 B	35	J35 A	36
A21	34	I14 A	35	J36 B	36
B6 A	34	I16	35	J38	39
B7 B	34	J1	33	J41	39
B8 C	34	J3 A	36	J42	39
B9 D	34	J4 B	36	K1	33
B11	38	J11 A	36	K4	36
B12	38	J12 B	36	M2	36
C10	35	J13 A	36	P11	39
D4	35	J14 B	36	P14	39
D7	38	J16	36	S22	40
D8	38	J18	36	S25	40
D11	38	J19	36	S28	40
D12	38	J20	36	S29	40
E3	32	J25 A	36	T1	33
E5	35	J26 B	36	T7	37
F6 A	32	J33 A	36		
F7 B	32	J34 B	36		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1J	27	
1K		
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		

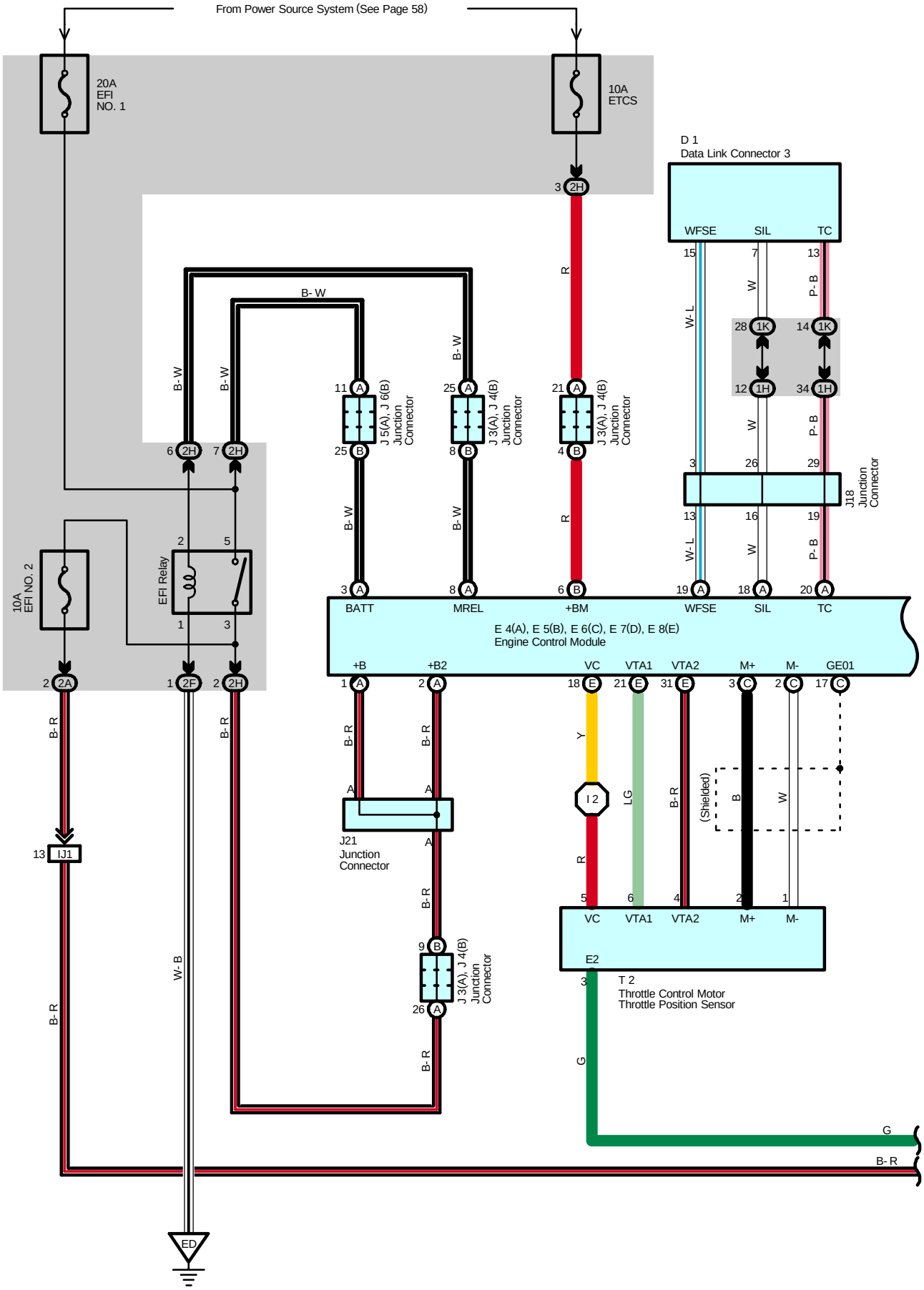
: Connector Joining Wire Harness and Wire Harness

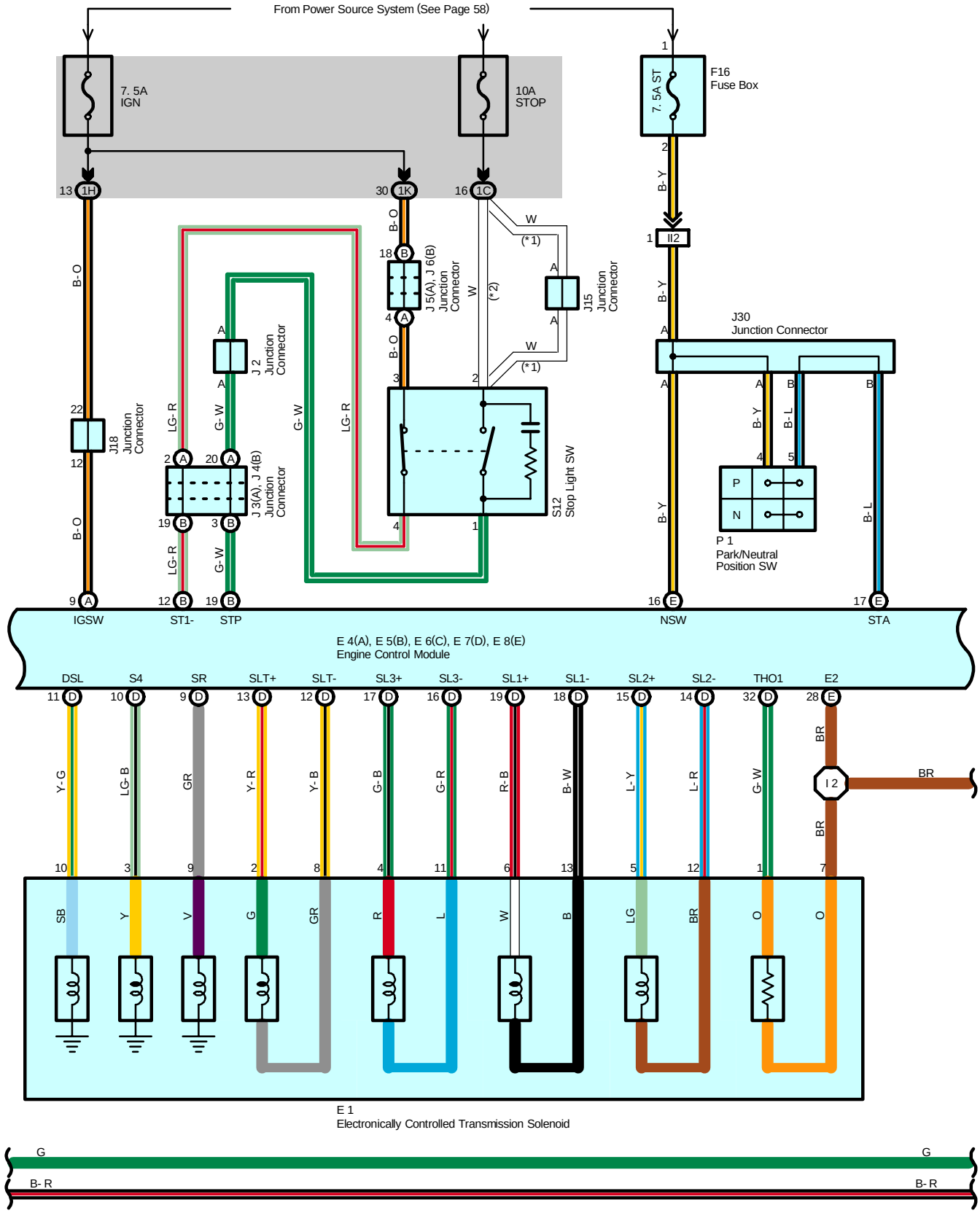
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
ID2	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
BD1	50	Rear Door No.2 Wire and Floor No.1 Wire (On the Left Rear Wheel House)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BH1	52	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BJ1	52	Rear Door No.1 Wire and Floor No.2 Wire (On the Right Rear Wheel House)

: Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel
BH	50	Under the Left Center Pillar
BL	50	Right Rear Quarter Panel
BM	50	Left Rear Quarter Panel
BN	50	Left Side of the Back Door

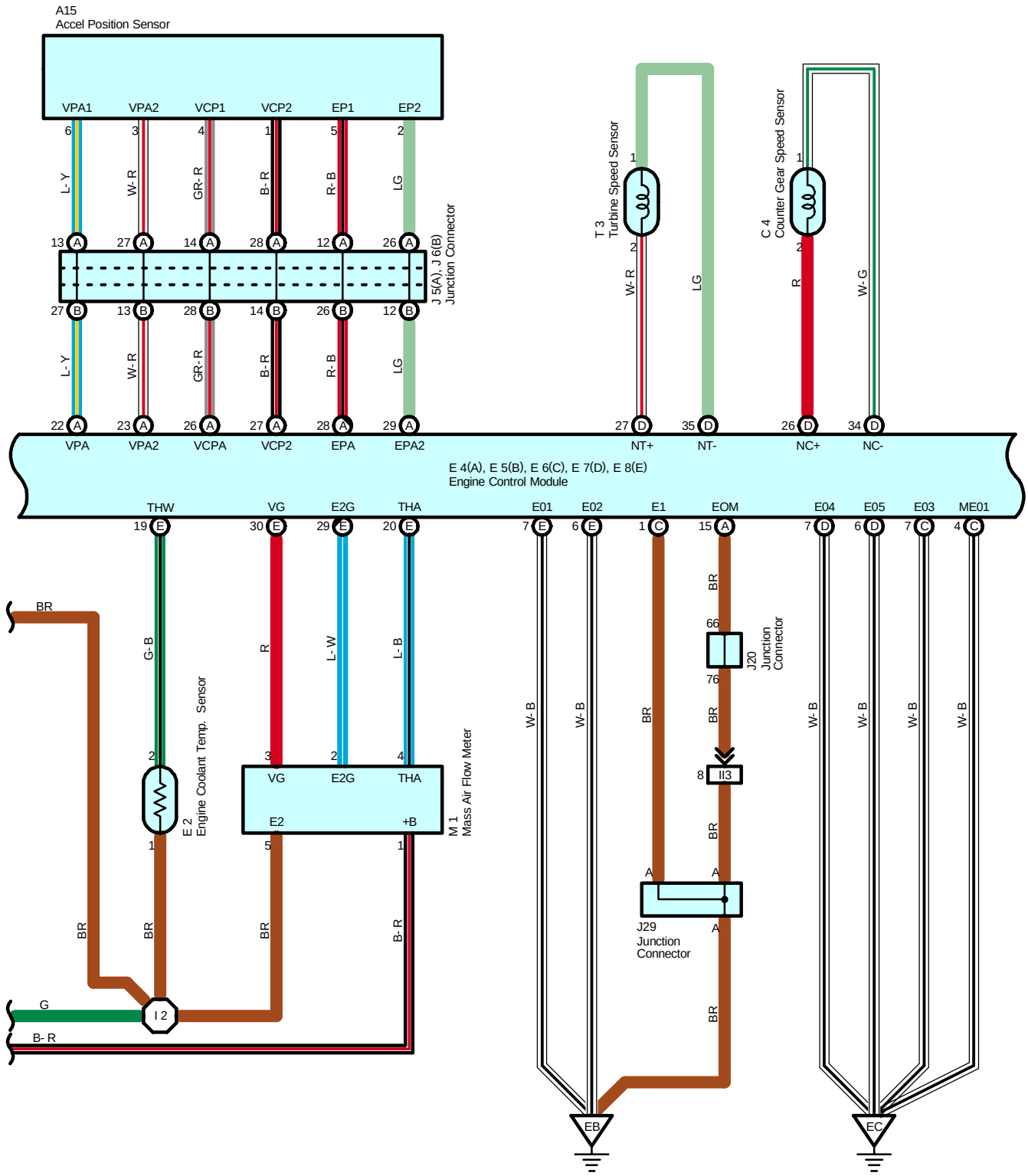
ECT and A/T Indicator

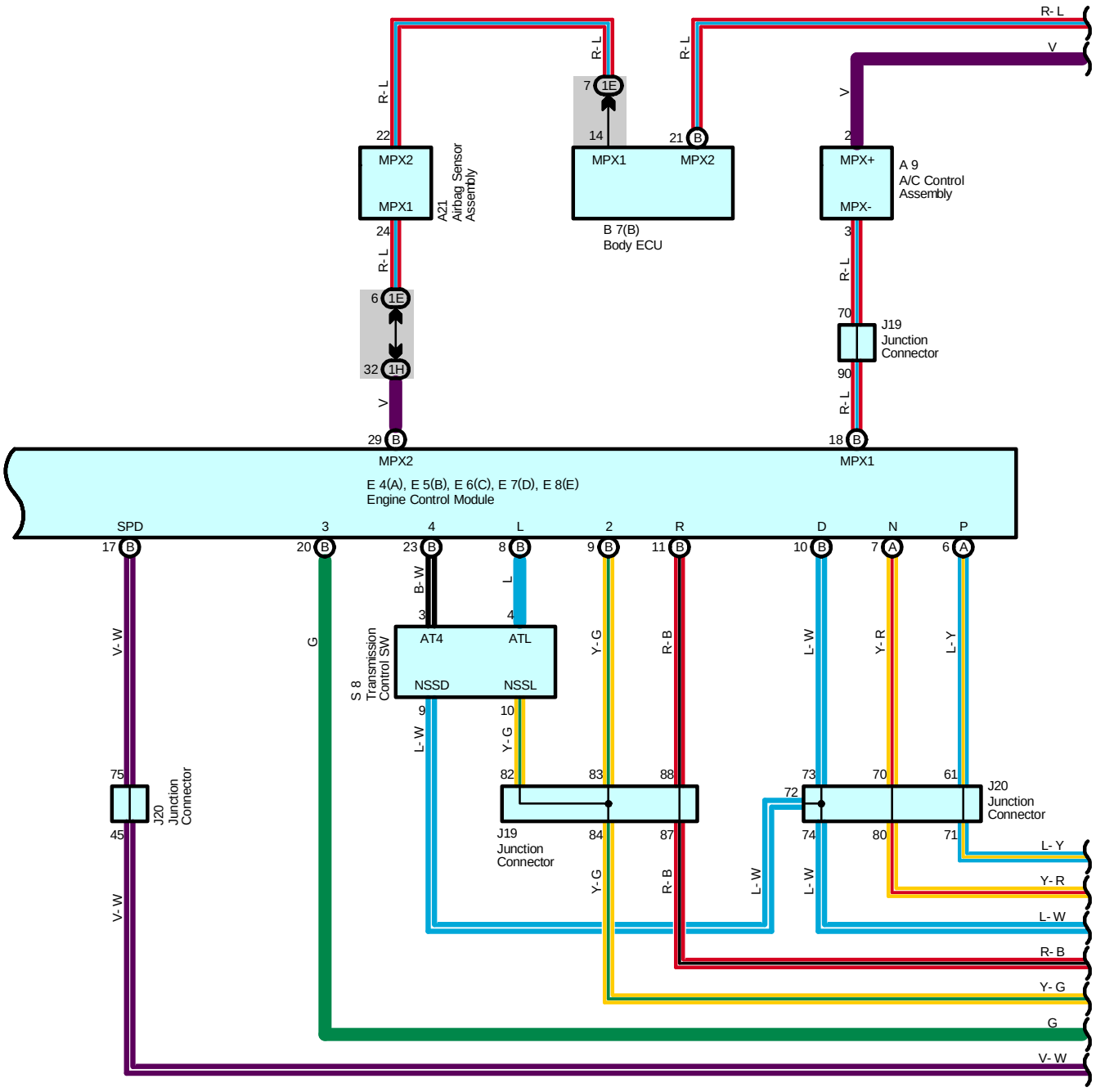




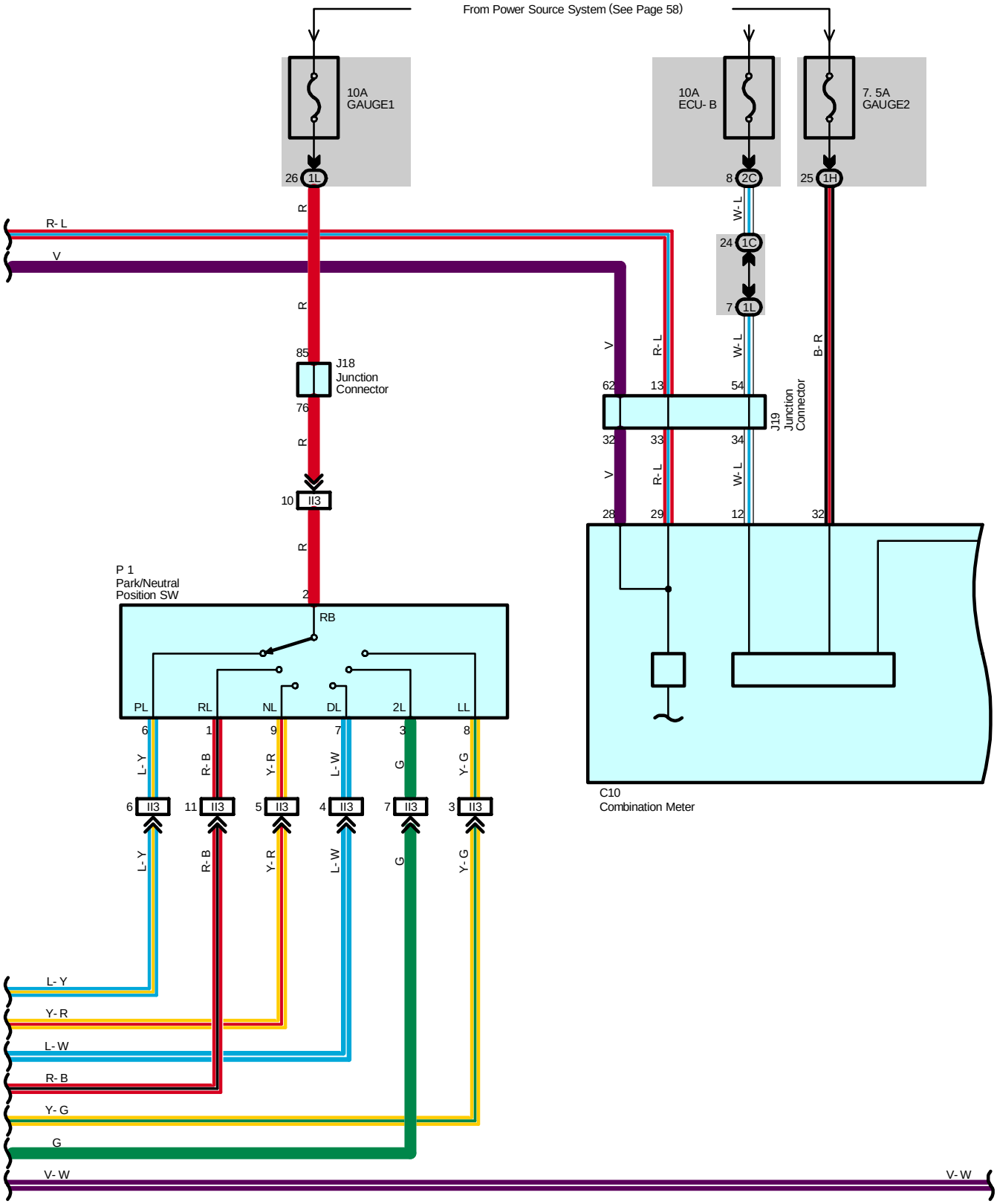
* 1 : w/ Dynamic Laser Cruise Control
* 2 : w/o Dynamic Laser Cruise Control

ECT and A/T Indicator

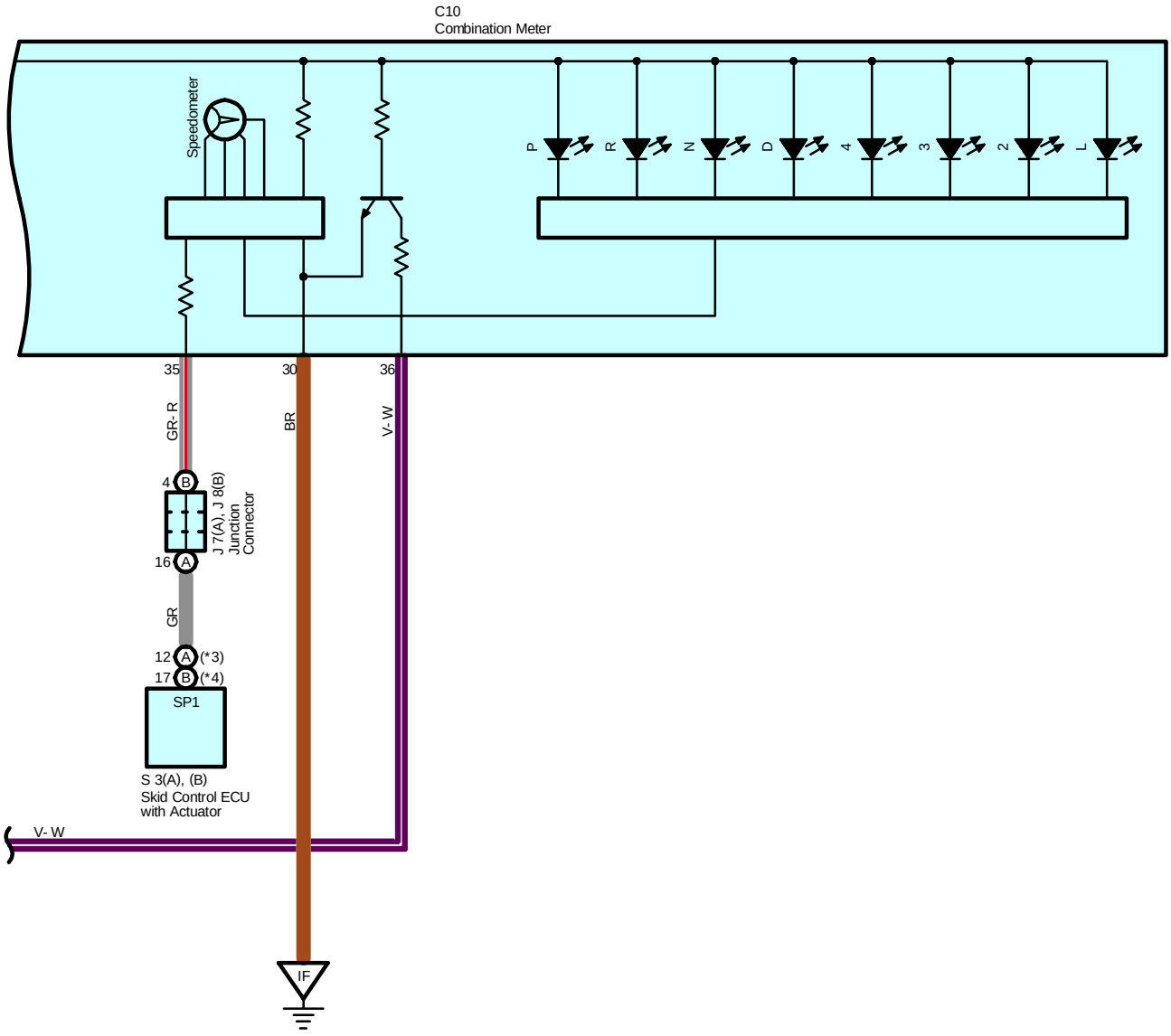



R- L
V
R- L
R- L
7 1E
14
21 B
MPX1
MPX2
B 7(B)
Body ECU
V
2
MPX+
MPX-
A 9
A/C Control
Assembly
22
MPX2
MPX1
A21
Airbag Sensor
Assembly
24
R- L
6 1E
32 1H
V
29 B
MPX2
R- L
3
70
J19
Junction
Connector
90
R- L
18 B
MPX1
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
SPD
17 B
3
20 B
4
23 B
L
8 B
2
9 B
R
11 B
D
10 B
N
7 A
P
6 A
V- W
G
B- W
3
L
4
S 8
Transmission
Control SW
AT4
ATL
NSSD
NSSL
9
10
L- W
Y- G
Y- G
R- B
L- W
Y- R
L- Y
75
J20
Junction
Connector
45
82
83
88
J19
Junction
Connector
84
87
73
70
61
J20
Junction
Connector
72
74
80
71
V- W
Y- G
R- B
L- W
L- W
L- Y
Y- R
L- W
R- B
Y- G
G
V- W

ECT and A/T Indicator



* 3 : w/ VSC
* 4 : w/o VSC



ECT and A/T Indicator

System Outline

Previous automatic transaxle have selected each gear shift using mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock-up hydraulic pressure. The electronically controlled transmission, however, electrically controls the line pressure, throttle pressure, lock-up pressure and accumulator pressure etc. through the solenoid valve. The electronically controlled transmission is a system which precisely controls gear shift timing and lock-up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection for each gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

1. Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine control module from the engine coolant temp. sensor and the vehicle speed signal is input to TERMINAL SPD of the engine control module. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINAL VTA1, VTA2 of the engine control module as throttle angle signal.
Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. Lock-Up Operation

When each signal makes engine control module recognize that LOCK-UP condition is satisfied, the current flows from engine control module TERMINAL DSL to electronically controlled transmission solenoid TERMINAL 10. At the same time, the current flows engine control module TERMINAL SL1+ to electronically controlled transmission solenoid TERMINAL 6 and from TERMINAL 13 to engine control module TERMINAL SL1-. This works LOCK-UP solenoid to perform LOCK-UP operation.

3. Stop Light SW Circuit

If the brake pedal is depressed (Stop light SW on) when driving in lock-up condition, a signal is input to TERMINAL STP of the engine control module. The engine control module operates and cuts the current to the solenoid to release lock-up.

Service Hints

E4 (A), E5 (B), E6 (C), E7 (D), E8 (E) Engine Control Module

(A) 3, (B) 6-Ground : Always approx. 12 volts
(A) 9-Ground : Approx. 12 volts with the ignition SW at ON position
(B)19-Ground : Approx. 12 volts with the brake pedal depressed
(A) 15, (C) 1, (C) 4, (C) 7, (D) 6, (D) 7, (E) 6, (E) 7-Ground : Always continuity

P1 Park/Neutral Position SW

2-6 : Closed with shift lever in P position
2-1 : Closed with shift lever in R position
2-9 : Closed with shift lever in N position
2-7 : Closed with shift lever in D position
2-3 : Closed with shift lever in 2 position
2-8 : Closed with shift lever in L position

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	E8 E	35	J21	36
A15	34	F16	35	J29	36
A21	34	J2	33	J30	36
B7 B	34	J3 A	36	M1	33
C4	32	J4 B	36	P1	33
C10	35	J5 A	36	S3 A	33
D1	35	J6 B	36	S3 B	33
E1	32	J7 A	36	S8	37
E2	32	J8 B	36	S12	37
E4 A	35	J15	36	T2	33
E5 B	35	J18	36	T3	33
E6 C	35	J19	36		
E7 D	35	J20	36		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
2A	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2C		
2F		
2H		

: Connector Joining Wire Harness and Wire Harness

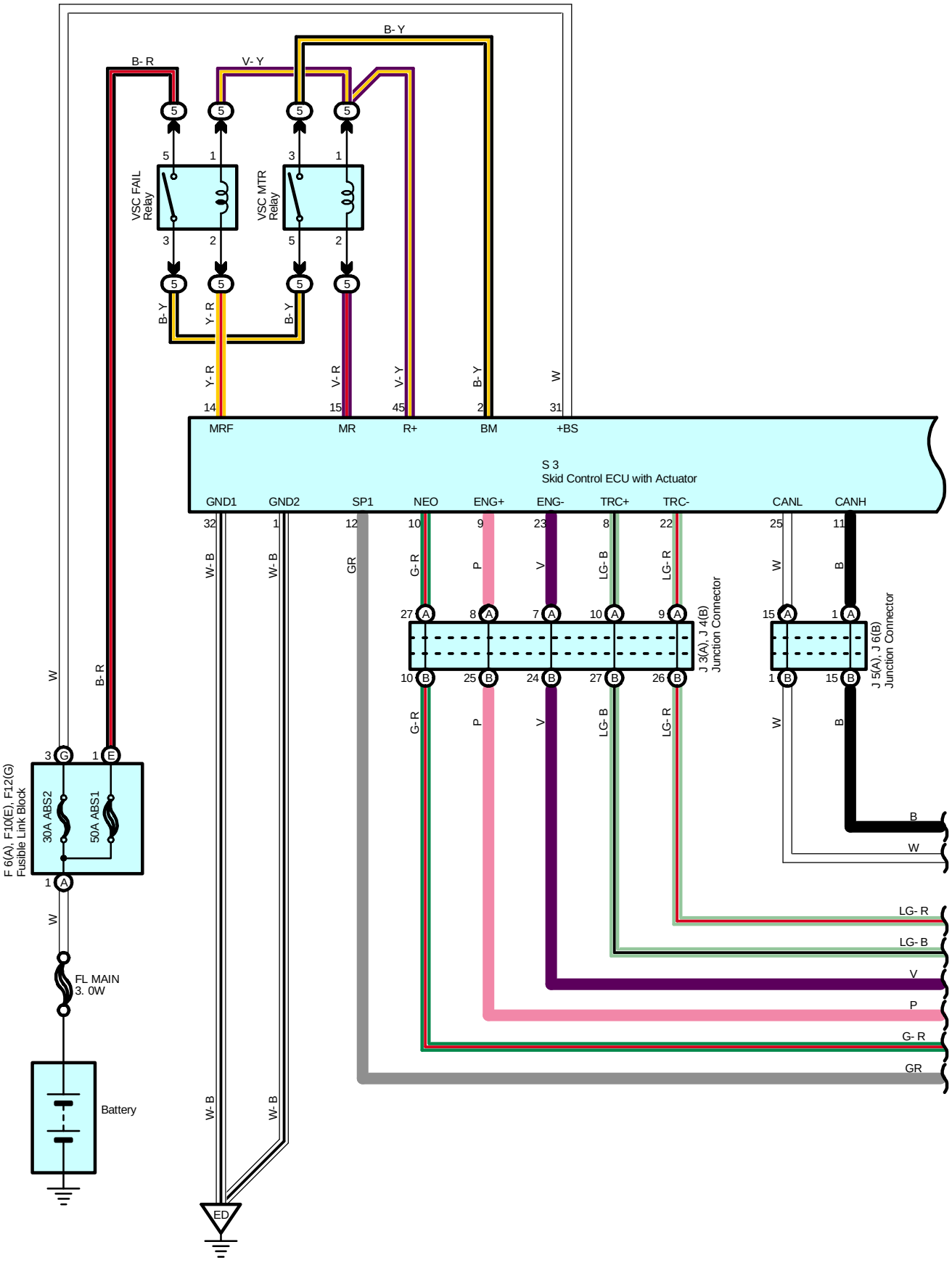
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II2	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
II3		
IJ1	48	Engine Wire and Engine Room Main Wire (Right Kick Panel)

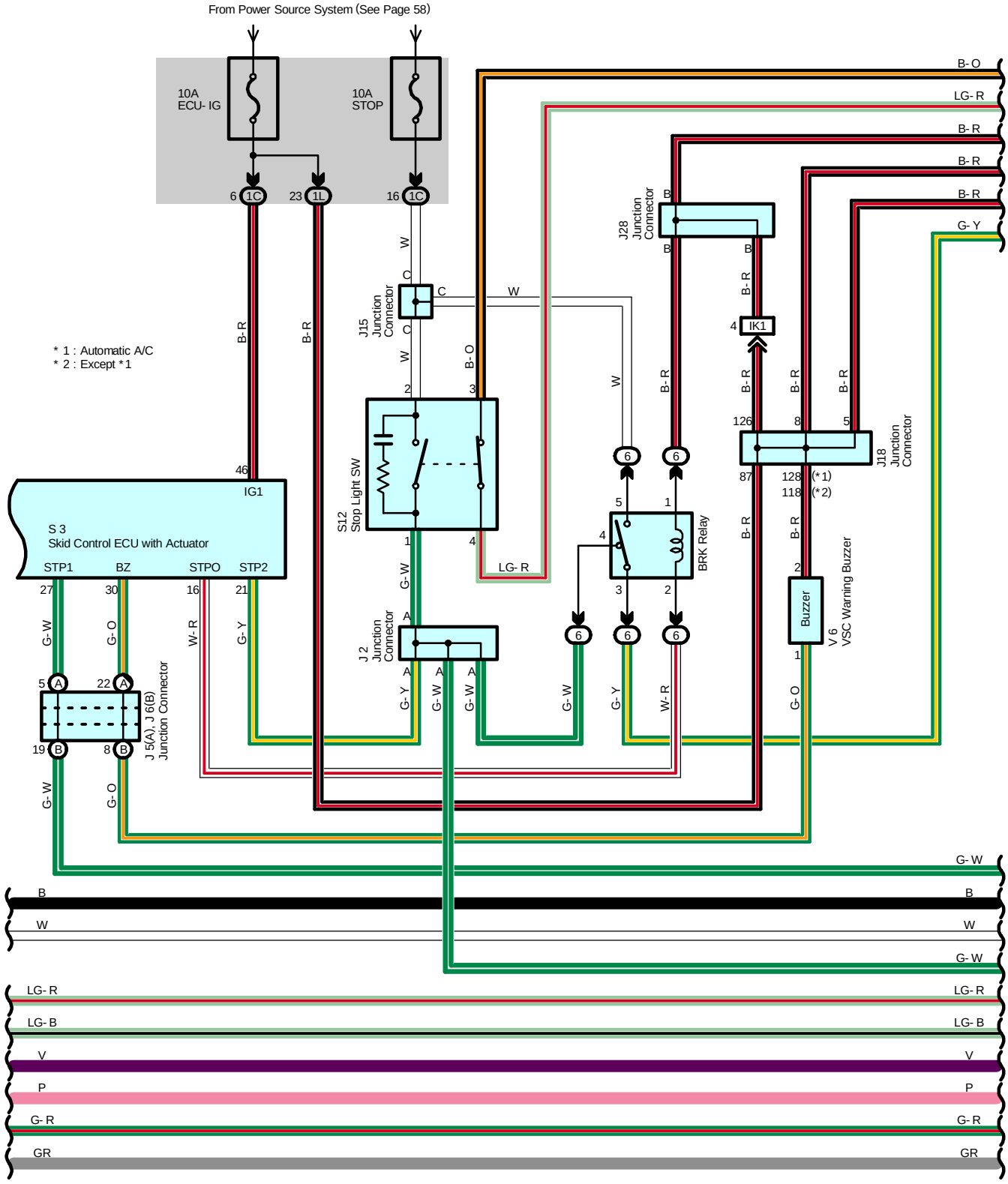
: Ground Points

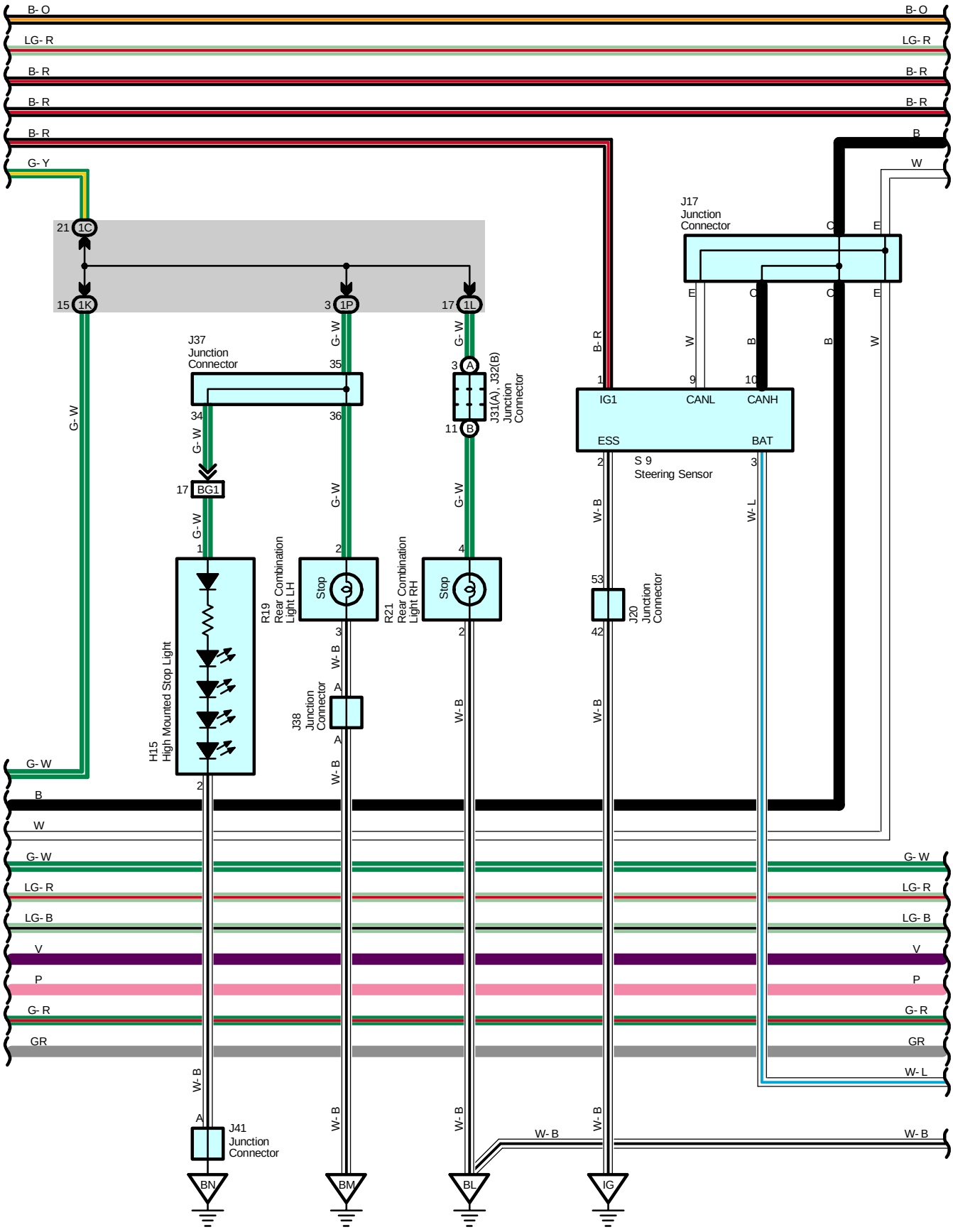
Code	See Page	Ground Points Location
EB	44	Rear Bank of Right Cylinder Head
EC	44	Rear Bank of Left Cylinder Head
ED	44	Front Side of the Left Fender Apron
IF	46	Instrument Panel Brace LH

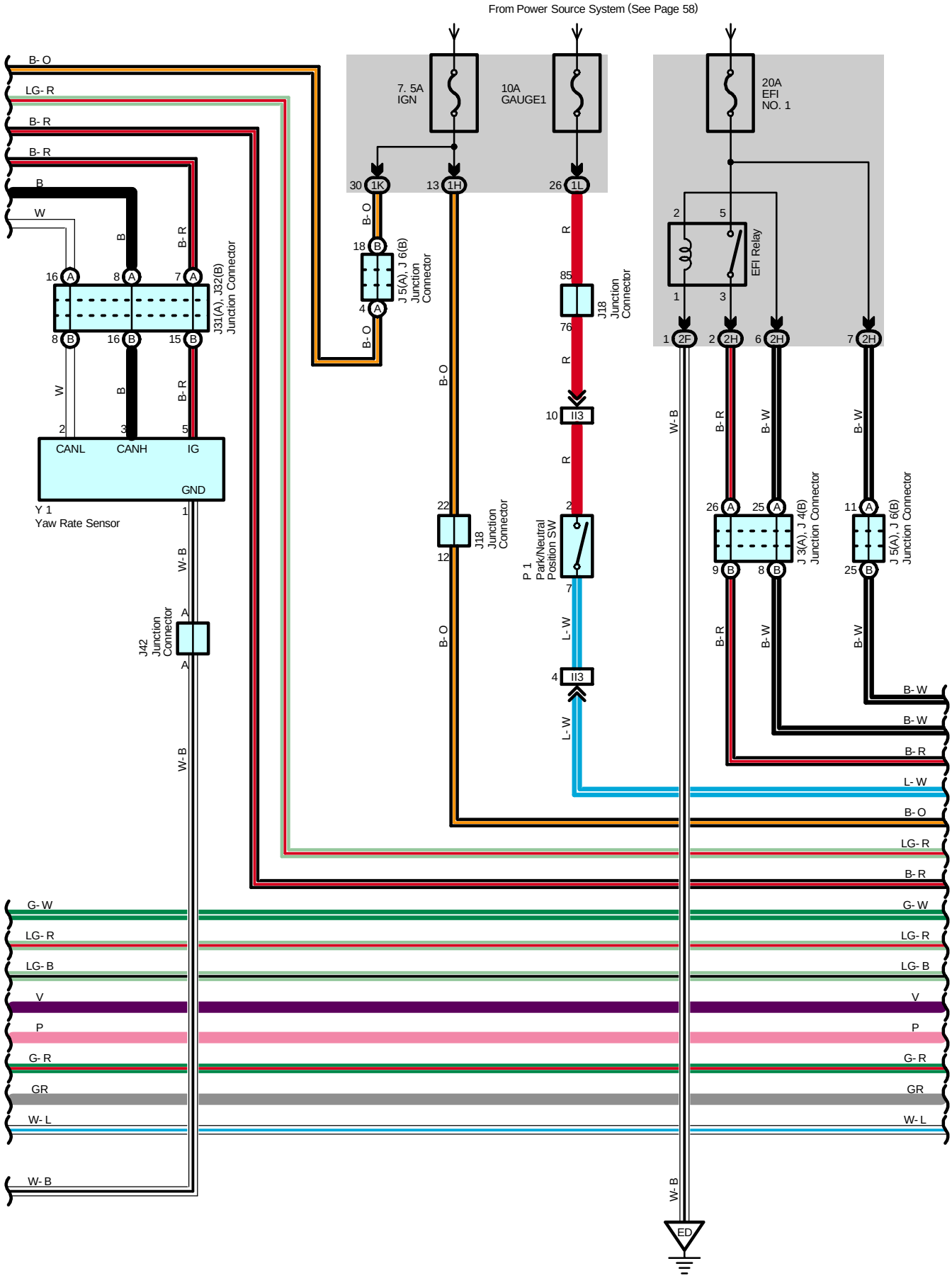
: Splice Points

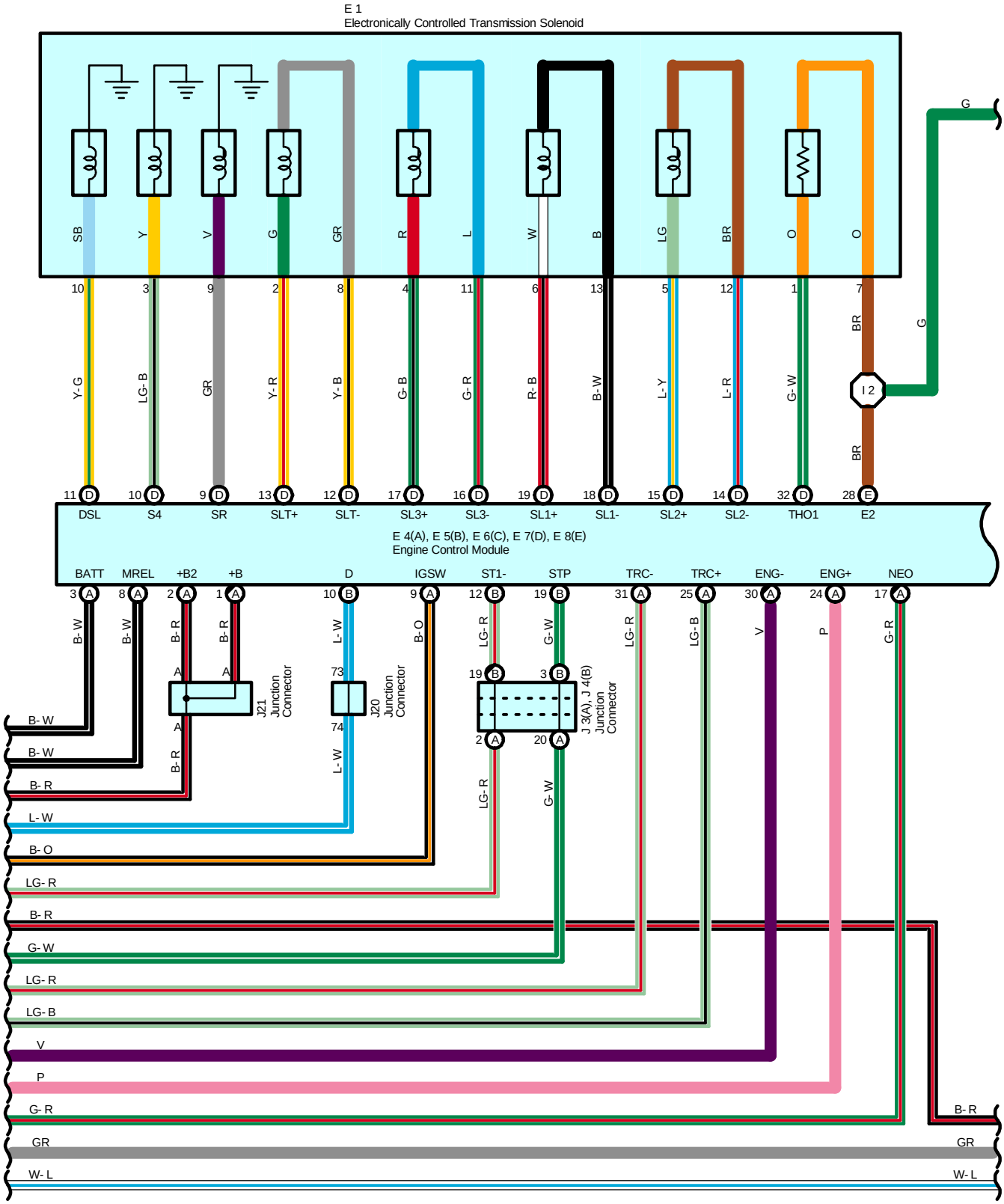
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I2	48	Engine Wire			

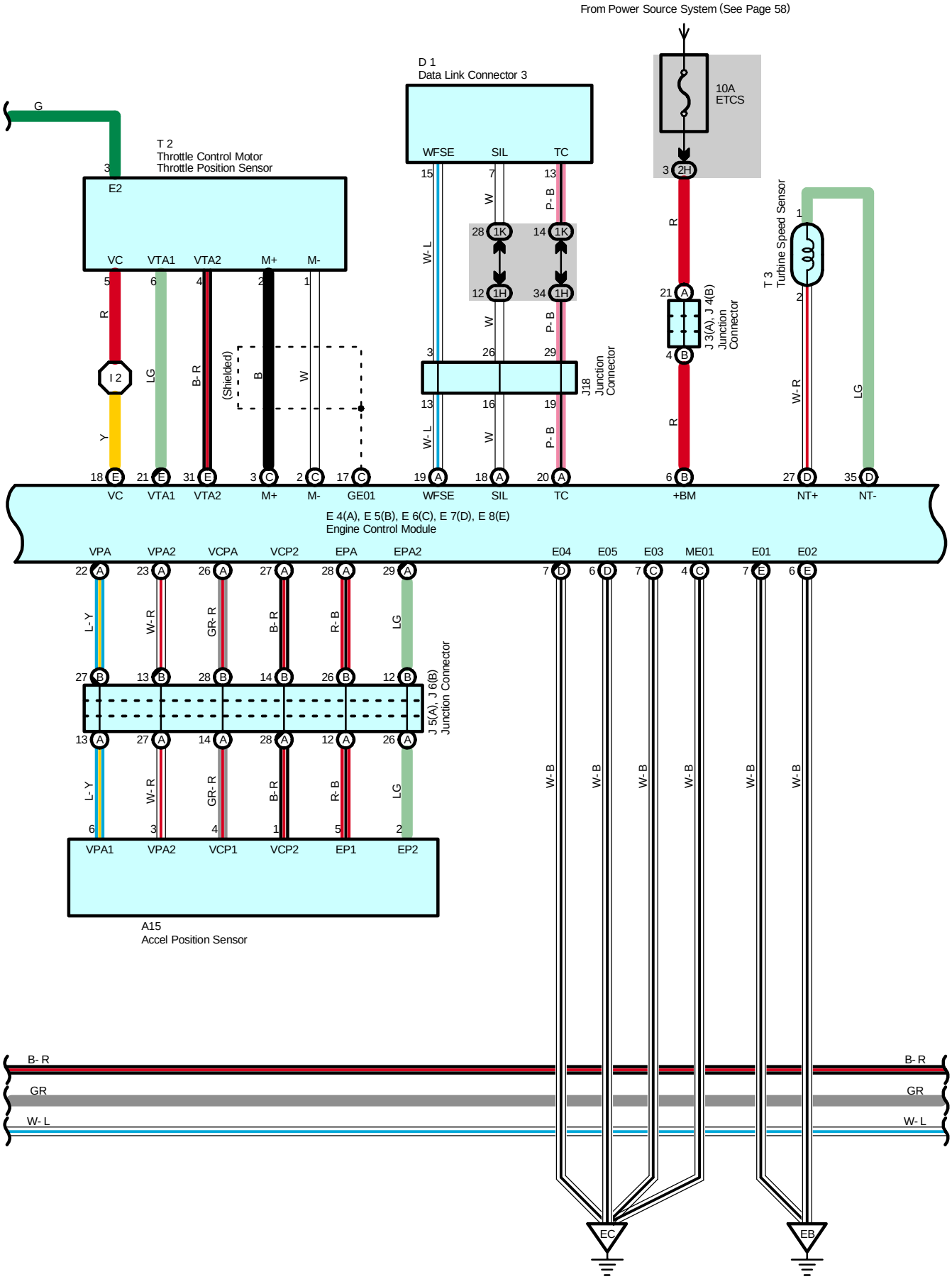

B- Y
B- R
V- Y
VSC FAIL Relay
VSC MTR Relay
B- Y
Y- R
B- Y
Y- R
V- R
V- Y
B- Y
W
14
15
45
2
31
MRF
MR
R+
BM
+BS
S 3
Skid Control ECU with Actuator
GND1
GND2
SP1
NEO
ENG+
ENG-
TRC+
TRC-
CANL
CANH
32
1
12
10
9
23
8
22
25
11
W- B
W- B
GR
G- R
P
V
LG- B
LG- R
W
B
J 3(A), J 4(B) Junction Connector
J 5(A), J 6(B) Junction Connector
W
B- R
F 6(A), F10(E), F12(G) Fusible Link Block
30A ABS2
50A ABS1
W
FL MAIN
3. 0W
Battery
W- B
W- B
ED
B
W
LG- R
LG- B
V
P
G- R
GR

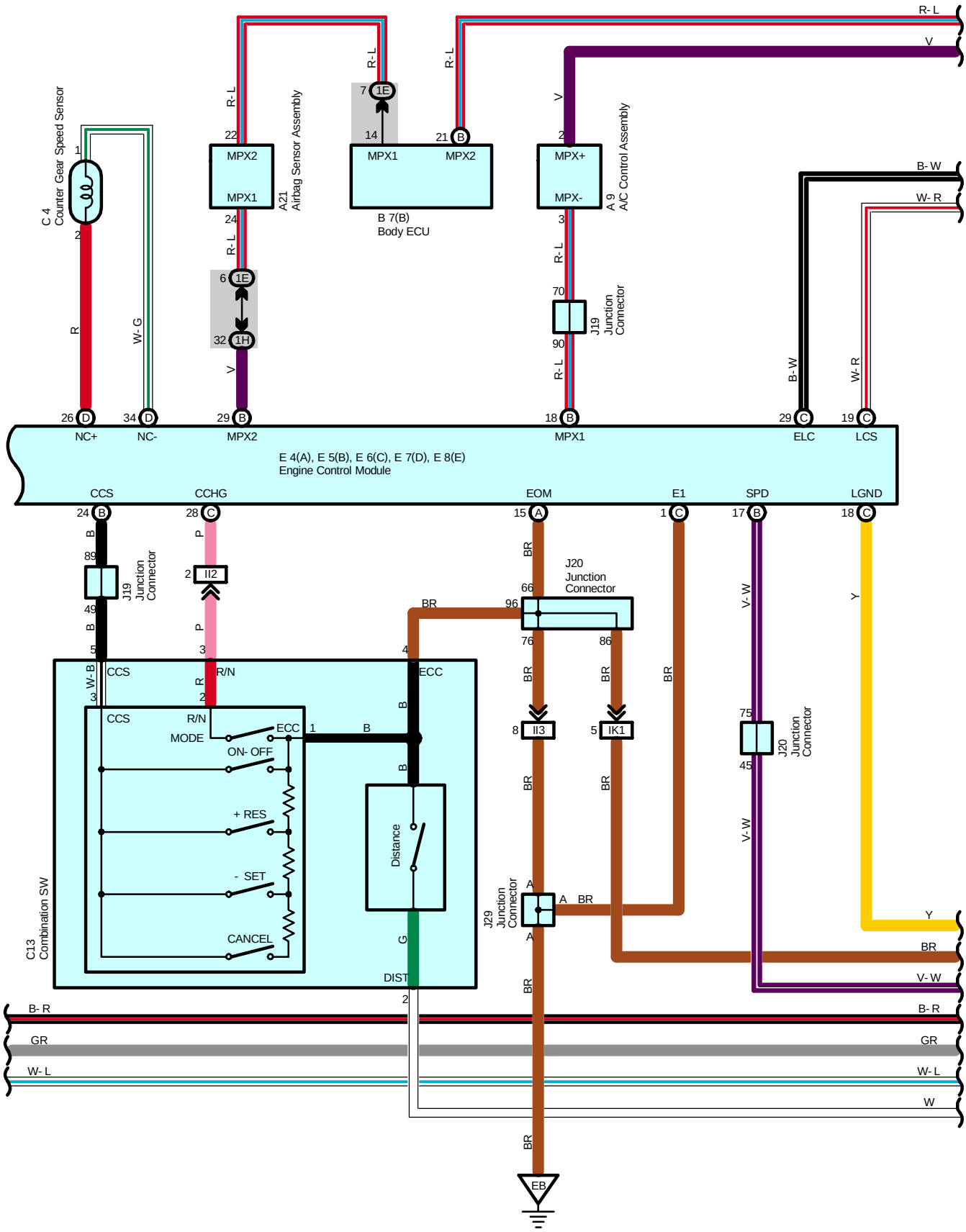

From Power Source System (See Page 58)
10A
ECU- IG
10A
STOP
6 1C
23 1L
16 1C
* 1 : Automatic A/C
* 2 : Except *1
S 3
Skid Control ECU with Actuator
STP1
BZ
STPO
STP2
IG1
46
27
30
16
21
J 5(A), J 6(B)
Junction Connector
J15
Junction
Connector
S12
Stop Light SW
J 2
Junction
Connector
J28
Junction
Connector
IK1
BRK Relay
J18
Junction
Connector
Buzzer
V 6
VSC Warning Buzzer
B- O
LG- R
B- R
G- Y
G- W
G- O
W- R
W
LG- B
V
P
G- R
GR
B

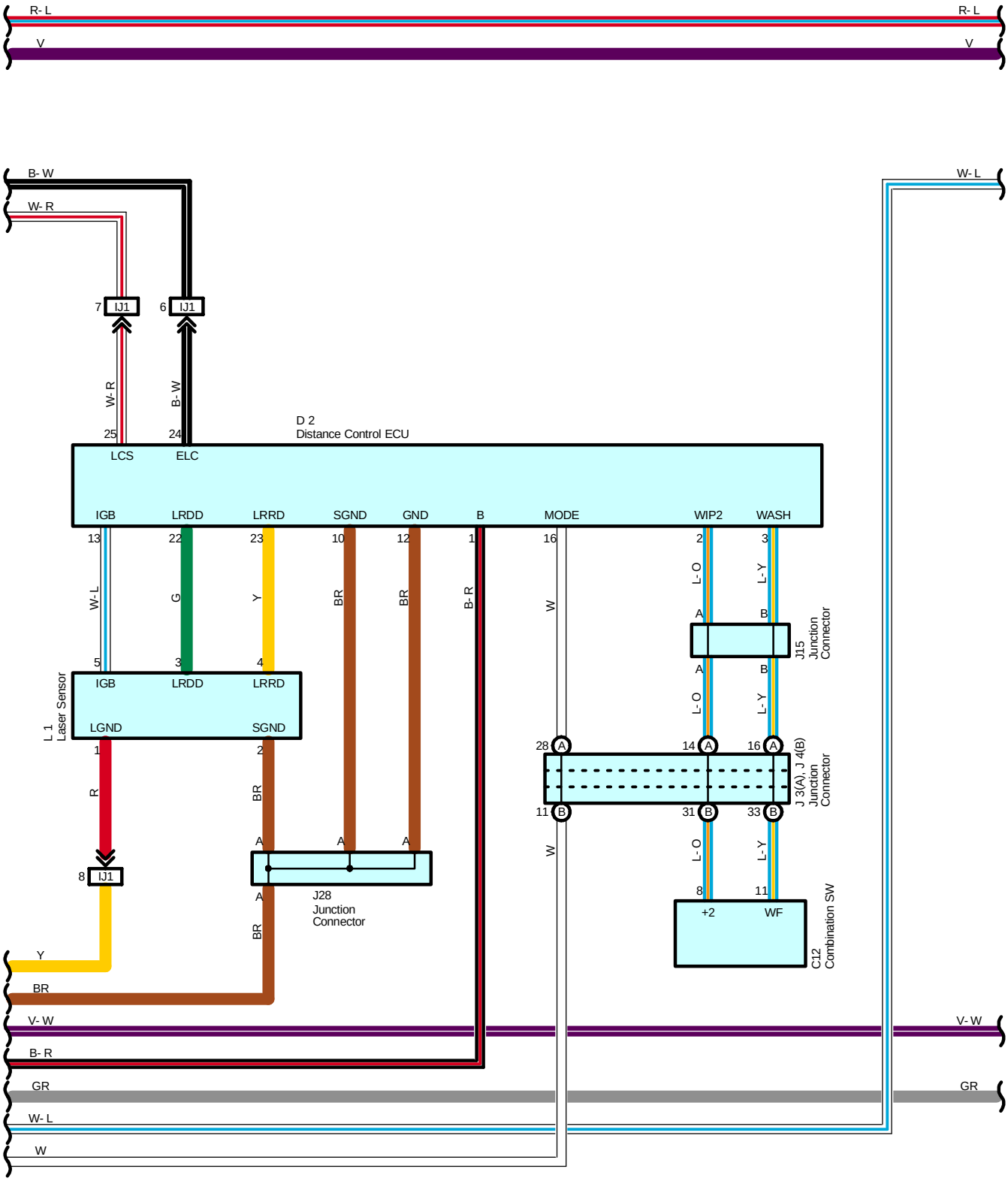

B- O
LG- R
B- R
B- R
B- R
G- Y
21 1C
15 1K
3 1P
17 1L
G- W
J37 Junction Connector
35
34
36
17 BG1
1
2
H15 High Mounted Stop Light
R19 Rear Combination Light LH
R21 Rear Combination Light RH
Stop
3
4
W- B
A
J38 Junction Connector
J31(A), J32(B) Junction Connector
11 B
J17 Junction Connector
C
E
W
B
B- R
1
9
10
IG1
CANL
CANH
ESS
BAT
2
3
S 9 Steering Sensor
W- L
53
42
J20 Junction Connector
J41 Junction Connector
BN
BM
BL
IG
V
P
G- R
GR

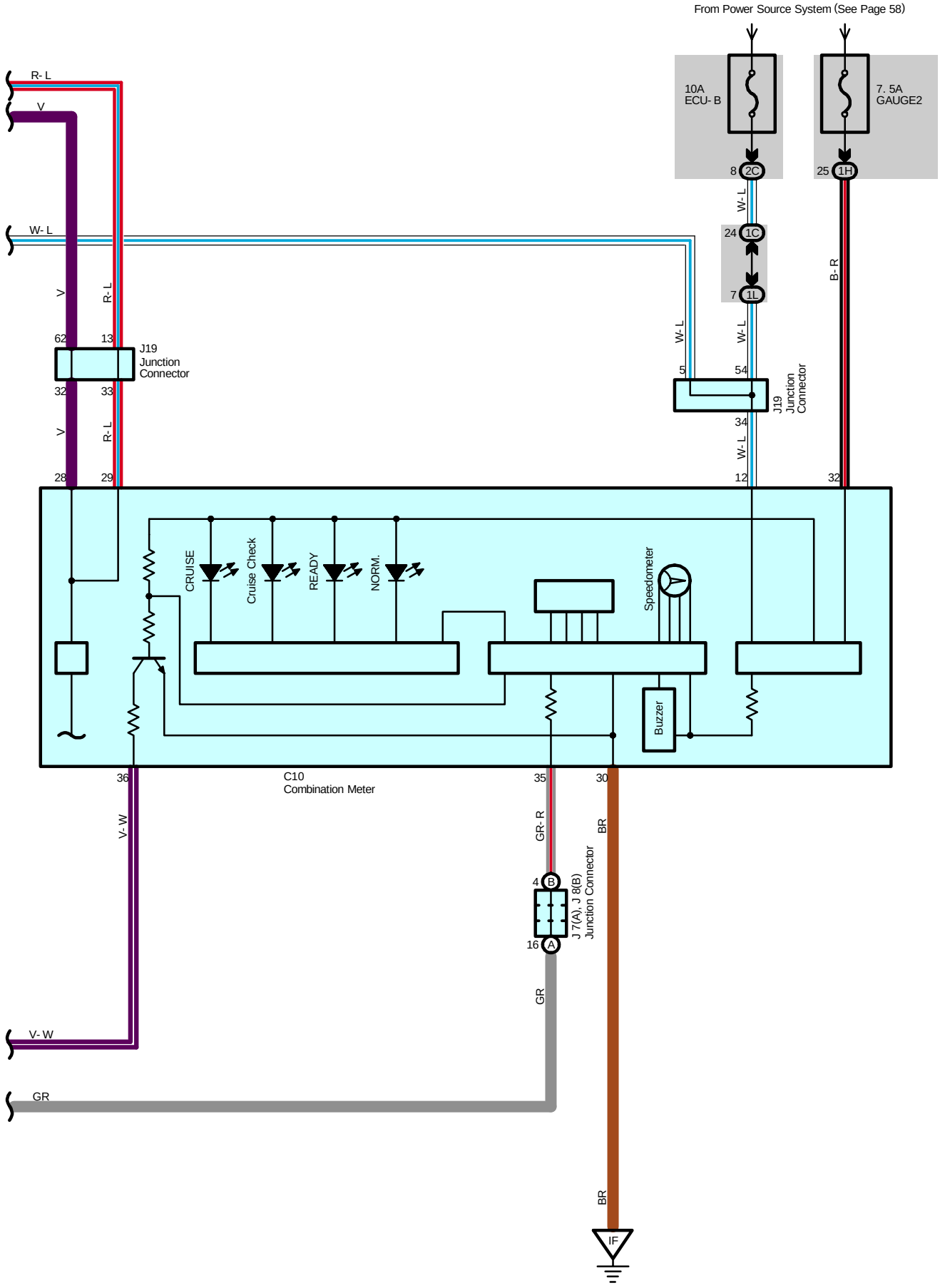

From Power Source System (See Page 58)
7. 5A
IGN
10A
GAUGE1
20A
EFI
NO. 1
EFI Relay
J18
Junction
Connector
J 5(A), J 6(B)
Junction
Connector
J31(A), J32(B)
Junction Connector
J 3(A), J 4(B)
Junction Connector
J42
Junction
Connector
P 1
Park/Neutral
Position SW
Y 1
Yaw Rate Sensor
CANL
CANH
IG
GND
B- O
LG- R
B- R
B
W
G- W
LG- B
V
P
G- R
GR
W- L
W- B
L- W
B- W
ED


E 1
Electronically Controlled Transmission Solenoid
SB
Y
V
G
GR
R
L
W
B
LG
BR
O
O
G
10
3
9
2
8
4
11
6
13
5
12
1
7
Y-G
LG-B
GR
Y-R
Y-B
G-B
G-R
R-B
B-W
L-Y
L-R
G-W
BR
G
BR
I 2
11 D
10 D
9 D
13 D
12 D
17 D
16 D
19 D
18 D
15 D
14 D
32 D
28 E
DSL
S4
SR
SLT+
SLT-
SL3+
SL3-
SL1+
SL1-
SL2+
SL2-
THO1
E2
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
BATT
MREL
+B2
+B
D
IGSW
ST1-
STP
TRC-
TRC+
ENG-
ENG+
NEO
3 A
8 A
2 A
1 A
10 B
9 A
12 B
19 B
31 A
25 A
30 A
24 A
17 A
B-W
B-W
B-R
B-R
L-W
B-O
LG-R
G-W
LG-R
LG-B
V
P
G-R
A
A
J21
Junction
Connector
73
74
J20
Junction
Connector
19 B
3 B
2 A
20 A
J 3(A), J 4(B)
Junction
Connector
B-W
B-W
B-R
L-W
B-O
LG-R
B-R
G-W
LG-R
LG-B
V
P
G-R
GR
W-L
B-R
GR
W-L


From Power Source System (See Page 58)
D 1
Data Link Connector 3
WFSE
SIL
TC
10A
ETCS
G
T 2
Throttle Control Motor
Throttle Position Sensor
E2
VC
VTA1
VTA2
M+
M-
(Shielded)
J18
Junction
Connector
J 3(A), J 4(B)
Junction
Connector
T 3
Turbine Speed Sensor
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
GE01
+BM
NT+
NT-
VPA
VPA2
VCPA
VCP2
EPA
EPA2
E04
E05
E03
ME01
E01
E02
J 5(A), J 6(B)
Junction Connector
VPA1
VCP1
EP1
EP2
A15
Accel Position Sensor
EC
EB


C 4
Counter Gear Speed Sensor
A21
Airbag Sensor Assembly
B 7(B)
Body ECU
A 9
A/C Control Assembly
J19
Junction
Connector
J20
Junction
Connector
J29
Junction
Connector
C13
Combination SW
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
NC+
NC-
MPX2
MPX1
ELC
LCS
CCS
CCHG
EOM
E1
SPD
LGND
ECC
R/N
MODE
ON- OFF
+ RES
- SET
CANCEL
Distance
DIST
EB
R- L
V
B- W
W- R
R
W- G
V
BR
P
B
W- B
GR
W- L
W
Y
V- W


R- L
V
R- L
V
B- W
W- R
W- L
7 IJ1
6 IJ1
W- R
B- W
25
24
LCS
ELC
D 2
Distance Control ECU
IGB
LRDD
LRRD
SGND
GND
B
MODE
WIP2
WASH
13
22
23
10
12
1
16
2
3
W- L
G
Y
BR
BR
B- R
W
L- O
L- Y
A
B
J15
Junction
Connector
5
3
4
IGB
LRDD
LRRD
L 1
Laser Sensor
LGND
SGND
1
2
R
BR
28 A
14 A
16 A
J 3(A), J 4(B)
Junction
Connector
11 B
31 B
33 B
8 IJ1
A
A
A
A
J28
Junction
Connector
8
11
+2
WF
C12
Combination SW
Y
BR
V- W
B- R
GR
W- L
W
V- W
GR


From Power Source System (See Page 58)
10A
ECU- B
7. 5A
GAUGE2
8 2C
25 1H
W- L
24 1C
7 1L
B- R
R- L
V
W- L
62
13
J19
Junction
Connector
32
33
54
34
12
32
28
29
J19
Junction
Connector
CRUISE
Cruise Check
READY
NORM.
Speedometer
Buzzer
36
C10
Combination Meter
35
30
V- W
GR- R
BR
4 B
16 A
J 7(A), J 8(B)
Junction Connector
GR
V- W
GR
BR
IF

System Outline

The dynamic laser cruise control system allows the vehicle to travel at a constant speed. Also according to the signals from the laser sensor and steering sensor, the system controls the vehicle to travel maintaining a certain following distance in proportion to the speed of the vehicle ahead.

Service Hints

E4 (A), E5 (B), E6 (C), E7 (D), E8 (E) Engine Control Module

(A) 3, (B) 6-Ground : Always approx. 12 volts
(A) 9-Ground : Approx. 12 volts with ignition SW at ON position
(B)19-Ground : Approx. 12 volts with the brake pedal depressed
(A) 15, (C) 1, (C) 4, (C) 7, (D) 6, (D) 7, (E) 6, (E) 7-Ground : Always continuity

D2 Distance Control ECU

1-Ground : Approx. 12 volts with ignition SW at ON position
10, 12-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	F12 G	32	J32 B	36
A15	34	H15	38	J37	39
A21	34	J2	33	J38	39
B7 B	34	J3 A	36	J41	39
C4	32	J4 B	36	J42	39
C10	35	J5 A	36	L1	33
C12	35	J6 B	36	P1	33
C13	35	J7 A	36	R19	40
D1	35	J8 B	36	R21	40
D2	35	J15	36	S3	33
E1	32	J17	36	S9	37
E4 A	35	J18	36	S12	37
E5 B	35	J19	36	T2	33
E6 C	35	J20	36	T3	33
E7 D	35	J21	36	V6	37
E8 E	35	J28	36	Y1	41
F6 A	32	J29	36		
F10 E	32	J31 A	36		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
5	25	R/B No.5 (Engine Compartment Left)
6	25	R/B No.6 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2H		

: Connector Joining Wire Harness and Wire Harness

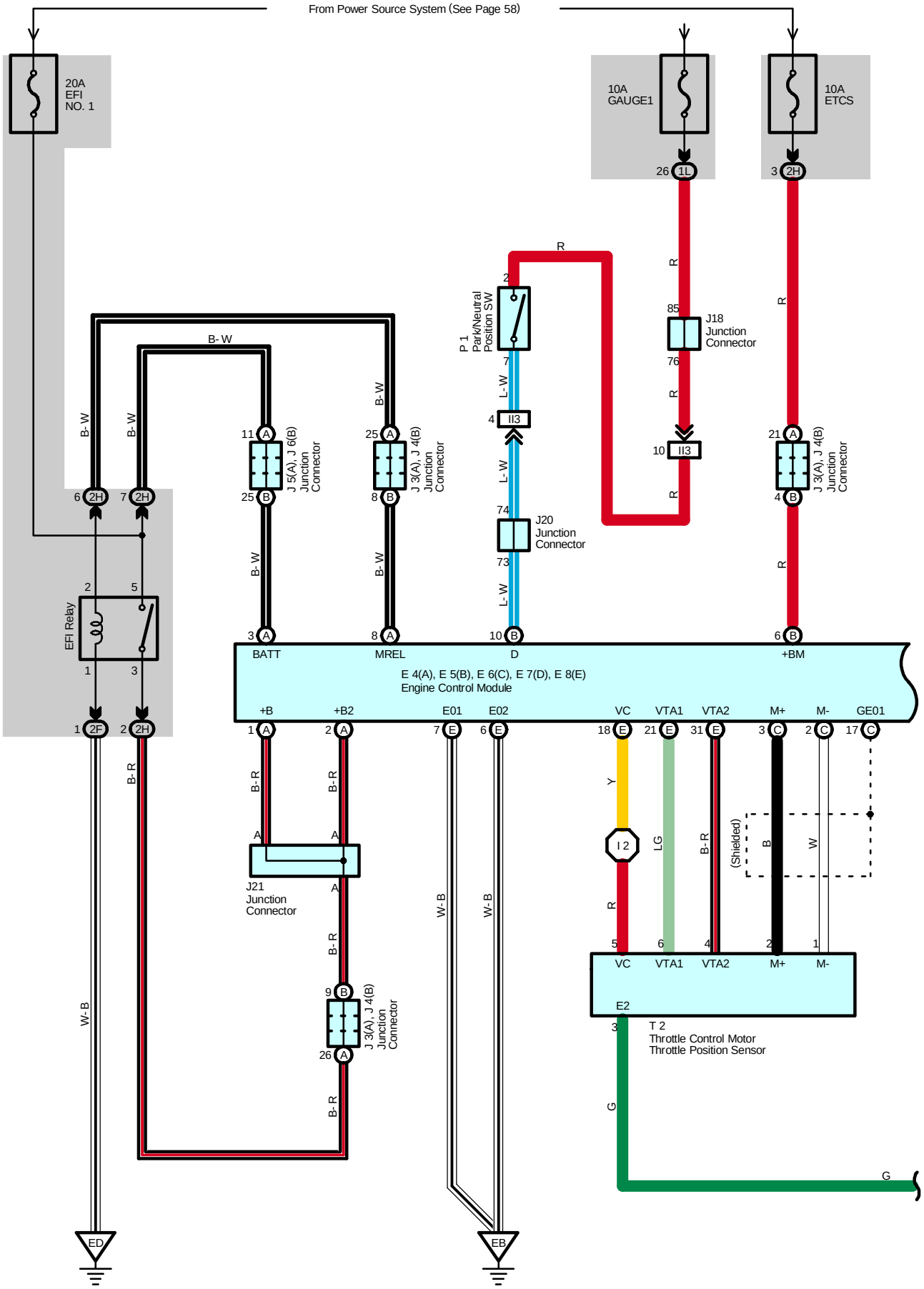
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II2	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
II3		
IJ1	48	Engine Wire and Engine Room Main Wire (Right Kick Panel)
IK1	48	Engine Room Main Wire and Instrument Panel Wire (Right Kick Panel)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)

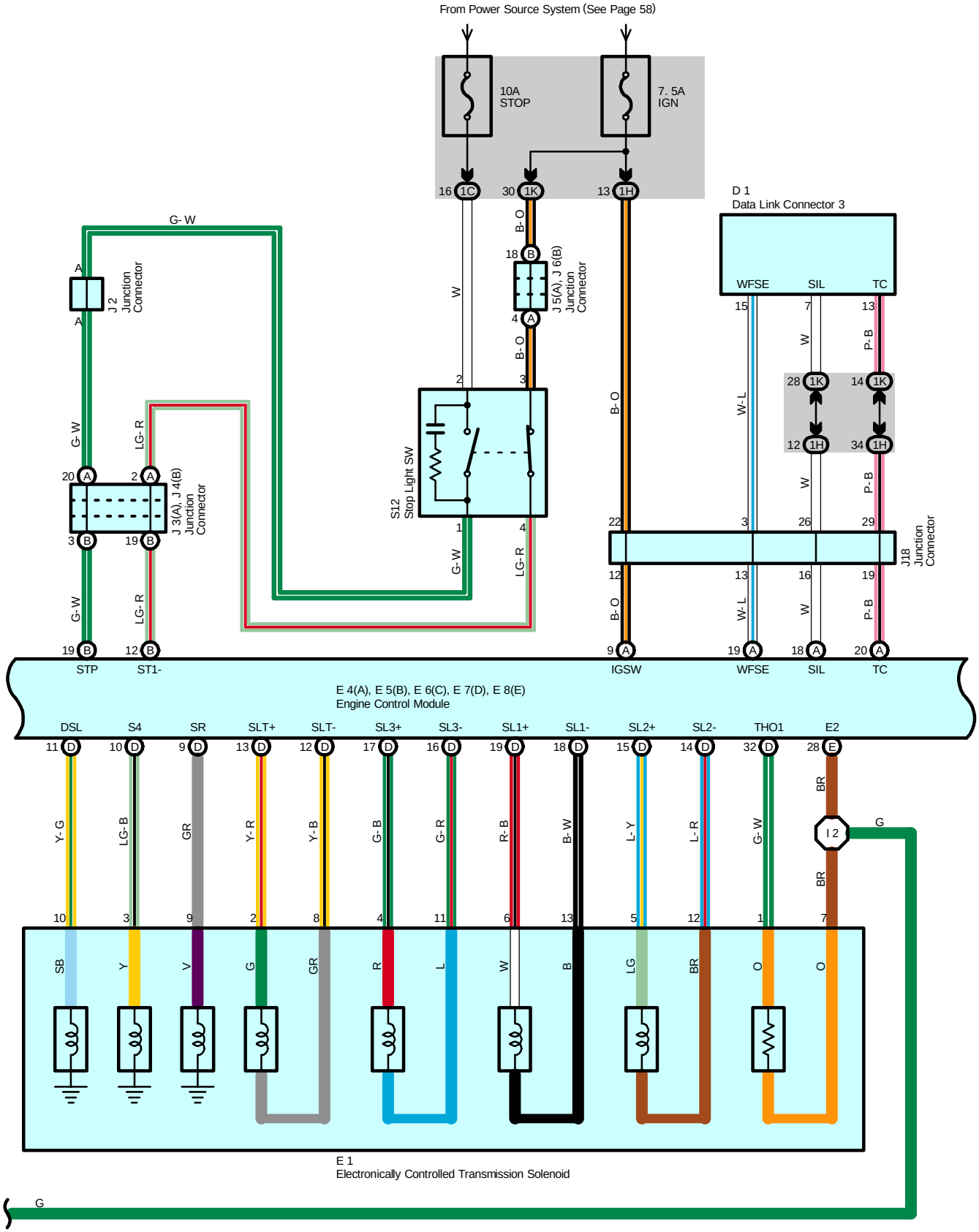
: Ground Points

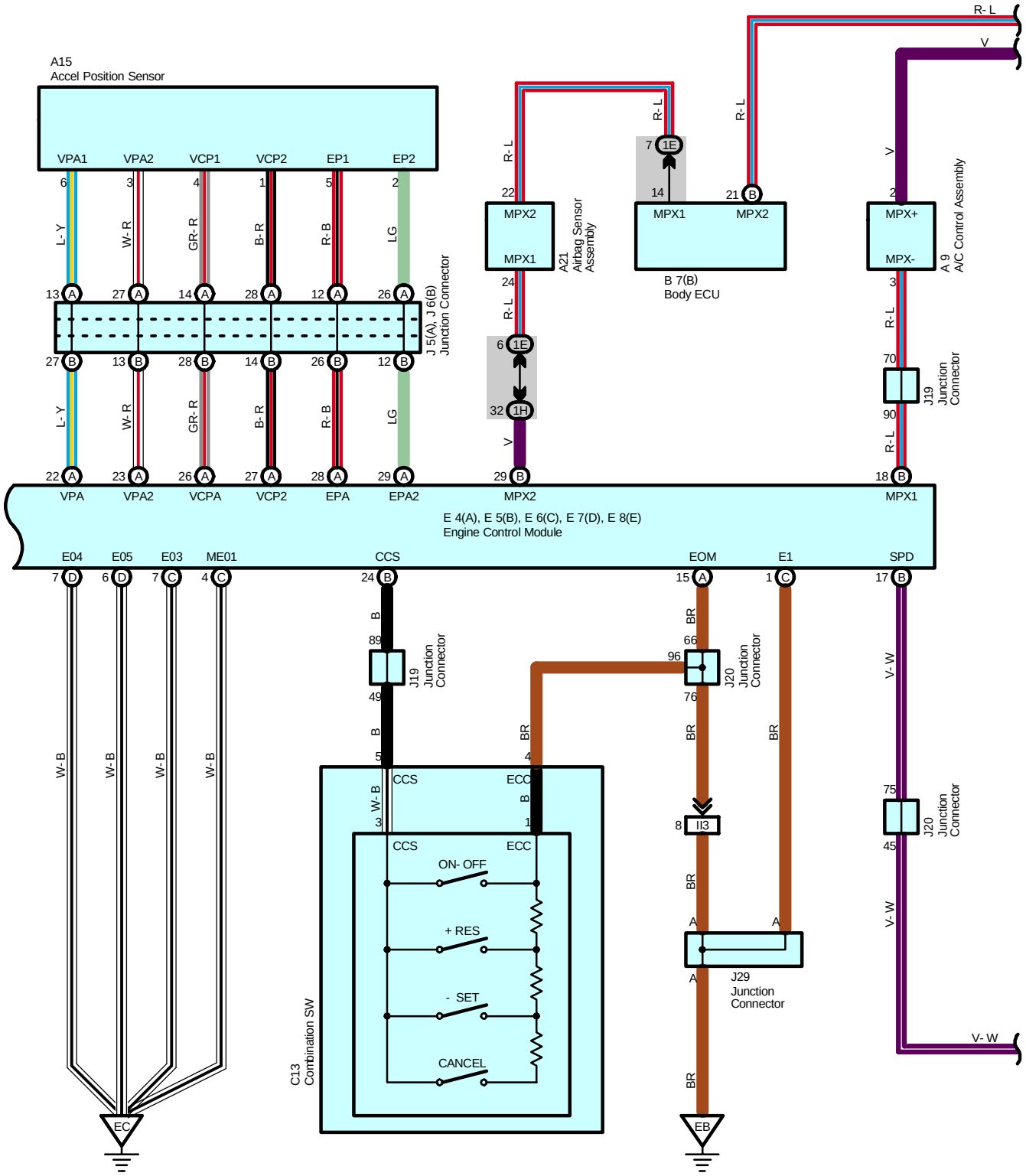
Code	See Page	Ground Points Location
EB	44	Rear Bank of Right Cylinder Head
EC	44	Rear Bank of Left Cylinder Head
ED	44	Front Side of the Left Fender Apron
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel
BL	50	Right Rear Quarter Panel
BM	50	Left Rear Quarter Panel
BN	50	Left Side of the Back Door

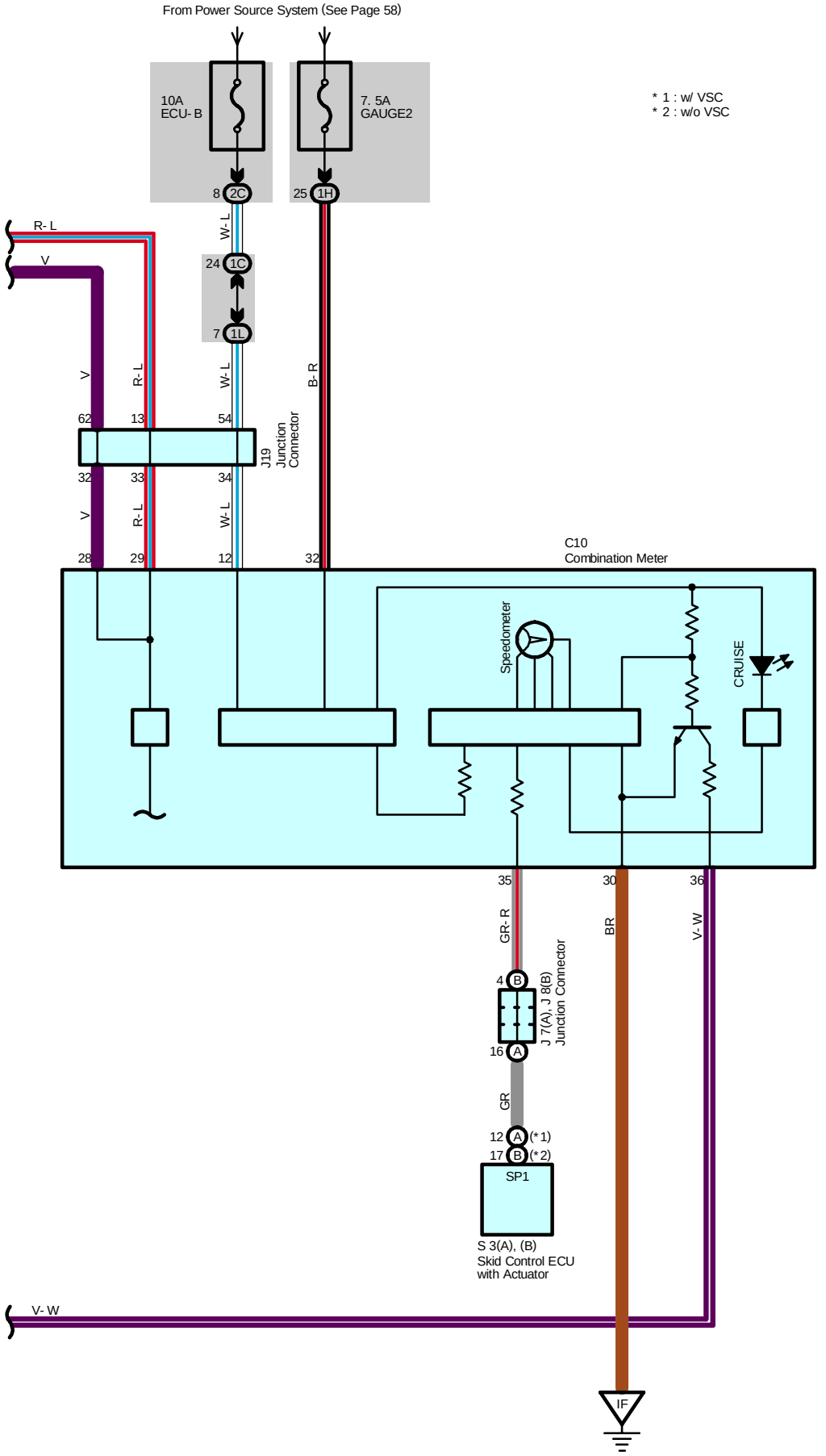
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I2	48	Engine Wire			


From Power Source System (See Page 58)
20A
EFI
NO. 1
10A
GAUGE1
10A
ETCS
26 1L
3 2H
R
2
P 1
Park/Neutral
Position SW
7
4 II3
L- W
74
J20
Junction
Connector
73
L- W
10 B
BATT
3 A
MREL
8 A
D
10 II3
R
85
J18
Junction
Connector
76
R
+BM
6 B
R
21 A
4 B
J 3(A), J 4(B)
Junction
Connector
B- W
B- W
B- W
11 A
25 B
J 5(A), J 6(B)
Junction
Connector
25 A
8 B
J 3(A), J 4(B)
Junction
Connector
6 2H
7 2H
EFI Relay
2
5
1
3
1 2F
2 2H
B- R
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
+B
+B2
E01
E02
VC
VTA1
VTA2
M+
M-
GE01
1 A
2 A
7 E
6 E
18 E
21 E
31 E
3 C
2 C
17 C
B- R
B- R
A
A
J21
Junction
Connector
A
B- R
9 B
26 A
J 3(A), J 4(B)
Junction
Connector
B- R
W- B
W- B
W- B
Y
I 2
LG
B- R
R
(Shielded)
B
W
5
6
4
2
1
VC
VTA1
VTA2
M+
M-
E2
3
T 2
Throttle Control Motor
Throttle Position Sensor
G
G
ED
EB


From Power Source System (See Page 58)
10A
STOP
7. 5A
IGN
16 1C
30 1K
13 1H
D 1
Data Link Connector 3
WFSE
SIL
TC
J 2
Junction
Connector
J 5(A), J 6(B)
Junction
Connector
S12
Stop Light SW
J 3(A), J 4(B)
Junction
Connector
J18
Junction
Connector
STP
ST1-
IGSW
WFSE
SIL
TC
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
DSL
S4
SR
SLT+
SLT-
SL3+
SL3-
SL1+
SL1-
SL2+
SL2-
THO1
E2
I 2
E 1
Electronically Controlled Transmission Solenoid
G


A15
Accel Position Sensor
VPA1
VPA2
VCP1
VCP2
EP1
EP2
L- Y
W- R
GR- R
B- R
R- B
LG
J 5(A), J 6(B)
Junction Connector
A21
Airbag Sensor
Assembly
MPX2
MPX1
B 7(B)
Body ECU
A 9
A/C Control Assembly
MPX+
MPX-
J19
Junction
Connector
R- L
V
VPA
VPA2
VCPA
VCP2
EPA
EPA2
MPX2
MPX1
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module
E04
E05
E03
ME01
CCS
EOM
E1
SPD
W- B
BR
V- W
J20
Junction
Connector
J29
Junction
Connector
C13
Combination SW
ECC
ON- OFF
+ RES
- SET
CANCEL
EC
EB


From Power Source System (See Page 58)
10A
ECU- B
7. 5A
GAUGE2
* 1 : w/ VSC
* 2 : w/o VSC
8 2C
25 1H
W- L
24 1C
7 1L
R- L
V
B- R
62
13
54
J19
Junction
Connector
32
33
34
28
29
12
32
C10
Combination Meter
Speedometer
CRUISE
35
30
36
GR- R
BR
V- W
4 B
J 7(A), J 8(B)
Junction Connector
16 A
GR
12 A (*1)
17 B (*2)
SP1
S 3(A), (B)
Skid Control ECU
with Actuator
V- W
IF

Cruise Control

System Outline

The cruise control system is a constant vehicle speed controller which controls the opening angle of the engine throttle valve by the SW, and allows driving at a constant speed without depressing the accelerator pedal.

Set Operation

When the ON-OFF SW is turned on, the systems starts preparations for cruise control and turns on the indicator light in the combination meter.

Set Speed Control

When the - SET SW is operated with the ON-OFF SW turned on during driving, the speed is controlled at a constant speed.

Coast Control

When the - SET SW is kept turned on during cruise control driving, the engine control module controls the throttle valve to decelerate the vehicle speed.
Every time the - SET SW is turned on instantaneously, the vehicle speed is decelerated approx. 1.6 km/h.

Accel Control

When the + RES SW is kept turned on during cruise control driving, the engine control module controls the throttle valve to accelerate the vehicle speed.
Every time the + RES SW is turned on instantaneously, the vehicle speed is accelerated approx. 1.6 km/h.

Resume Control

If the vehicle speed is within the low speed limit (Approx. 40 km/h, 25 mph) when canceling the cruise control, operation of the + RES SW accelerates the vehicle speed and resumes the level before canceling the cruise control.

Manual Cancel Mechanism

If any of the following signals are input during cruise control driving, the cruise control is canceled.
* The stop light SW is on
* The CANCEL SW is turned on
* The ON-OFF SW is turned off
* Gear is shifted from D position to other positions than D.

Auto Cancel Function

If any of the following conditions are detected, the cruise control is canceled:
* Failure in the stop light SW wiring
* Abnormality in the vehicle speed signal
* Malfunction in the electronically controlled throttle parts

Overdrive Function

The overdrive may be canceled if the vehicle travels on a upward slope during cruise control driving. After the overdrive is canceled, if the vehicle speed exceeds the overdrive return speed and it is determined that the slope has finished, and the vehicle returns to overdrive mode again.

Service Hints

E4 (A), E5 (B), E6 (C), E7 (D), E8 (E) Engine Control Module

(A) 3, (B) 6-Ground : Always approx. 12 volts
(A) 9-Ground : Approx. 12 volts with the ignition SW at ON position
(B)19-Ground : Approx. 12 volts with the brake pedal depressed
(A) 15, (C) 1, (C) 4, (C) 7, (D) 6, (D) 7, (E) 6, (E) 7-Ground : Always continuity

C13 Combination SW

5-4 : Approx. 1540 Ω with CANCEL SW on
: Approx. 240 Ω with + RES SW on
: Approx. 630 Ω with - SET SW on

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A9		34	E6	C	35	J18		36
A15		34	E7	D	35	J19		36
A21		34	E8	E	35	J20		36
B7	B	34	J2		33	J21		36
C10		35	J3	A	36	J29		36
C13		35	J4	B	36	P1		33
D1		35	J5	A	36	S3	A	33
E1		32	J6	B	36		B	33
E4	A	35	J7	A	36	S12		37
E5	B	35	J8	B	36	T2		33

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2H		

: Connector Joining Wire Harness and Wire Harness

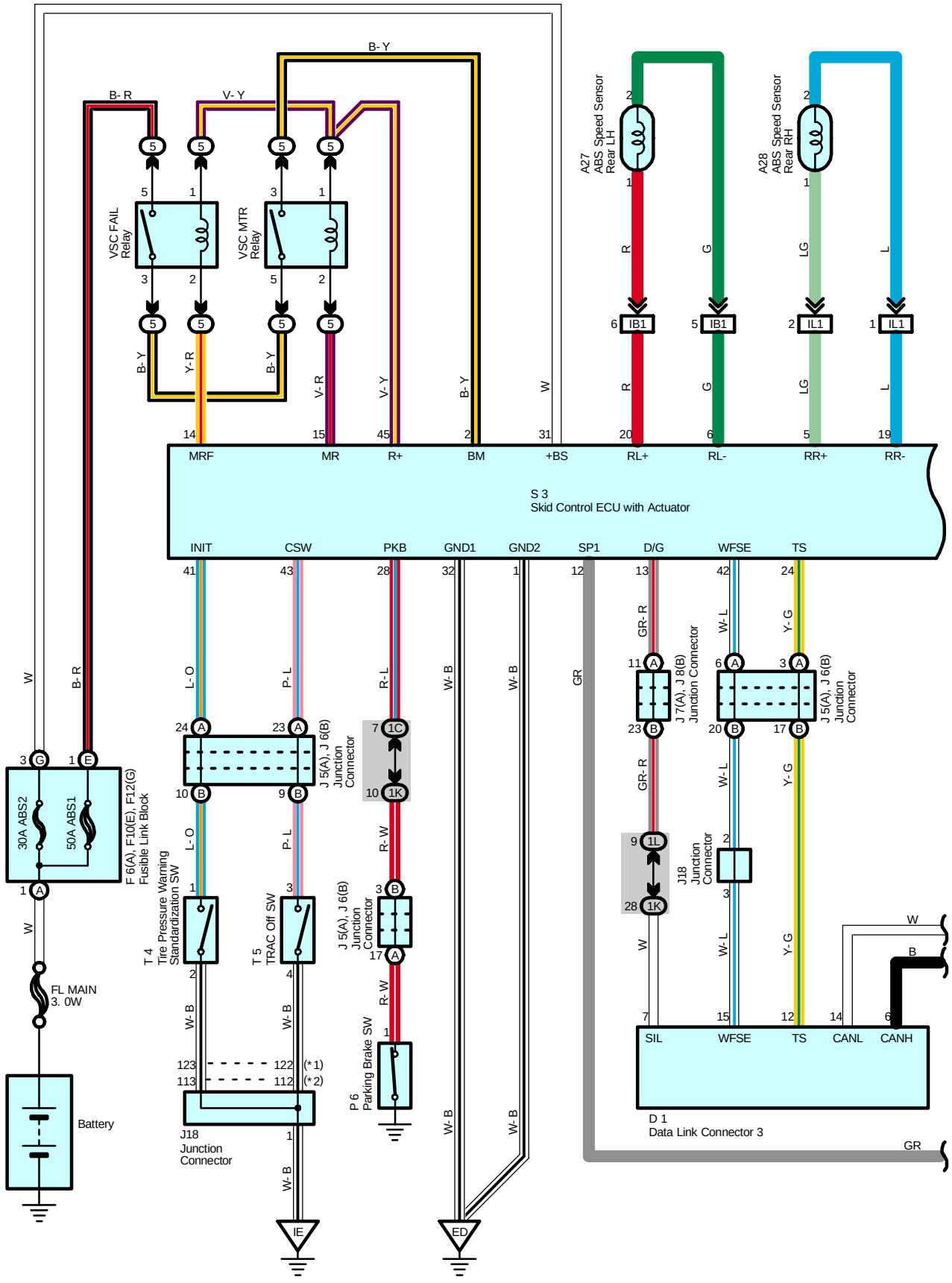
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)

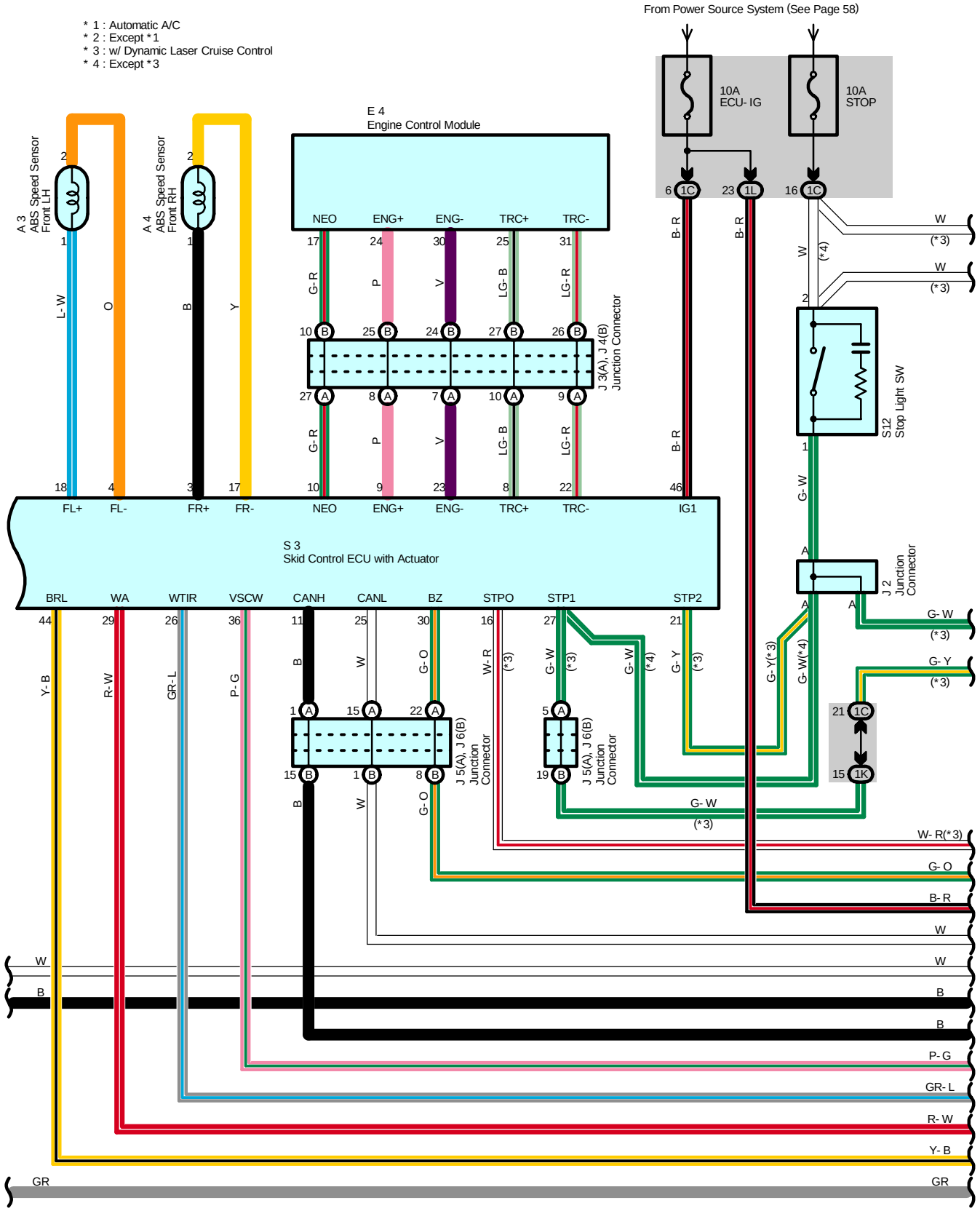
: Ground Points

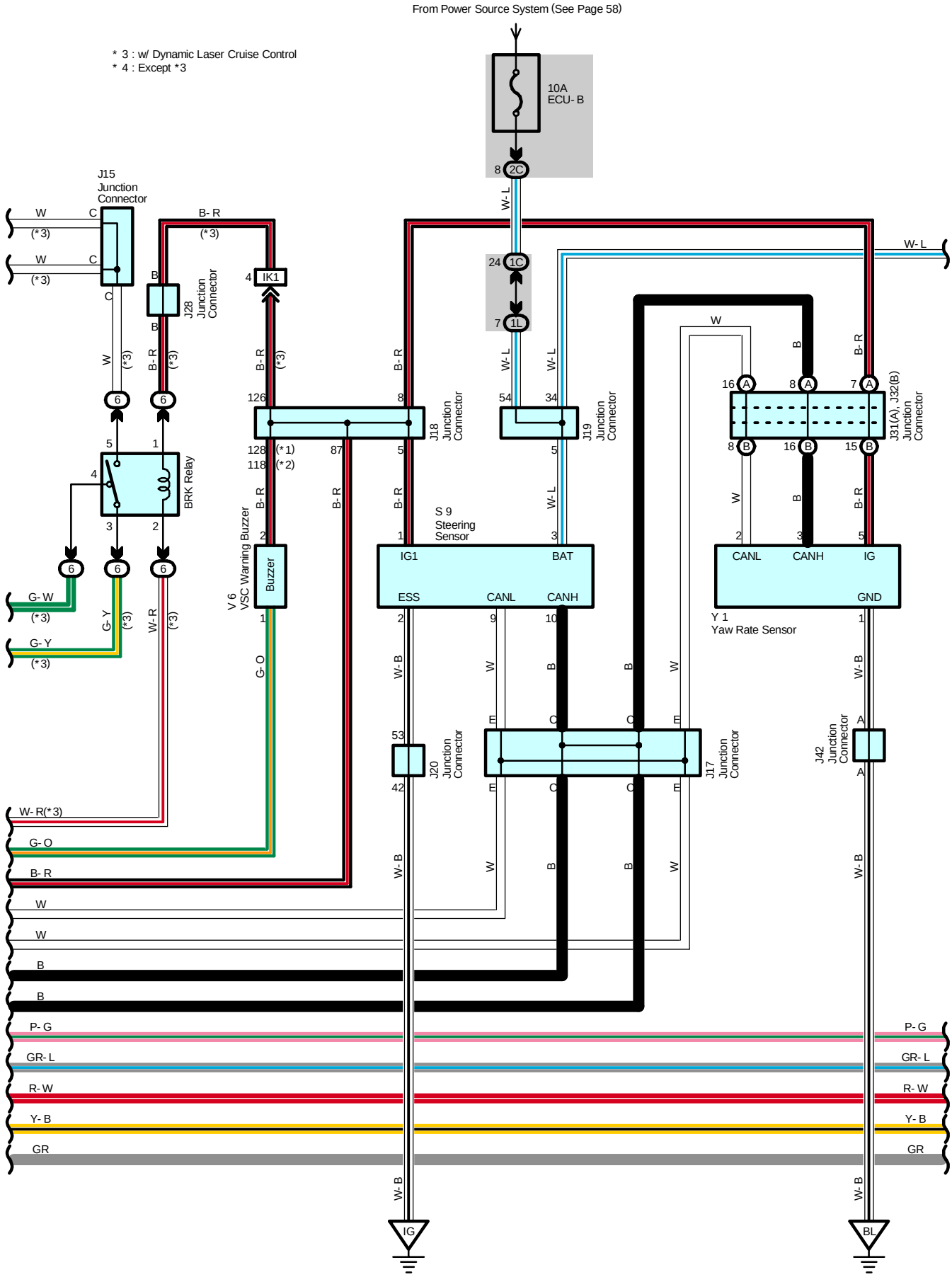
Code	See Page	Ground Points Location
EB	44	Rear Bank of Right Cylinder Head
EC	44	Rear Bank of Left Cylinder Head
ED	44	Front Side of the Left Fender Apron
IF	46	Instrument Panel Brace LH

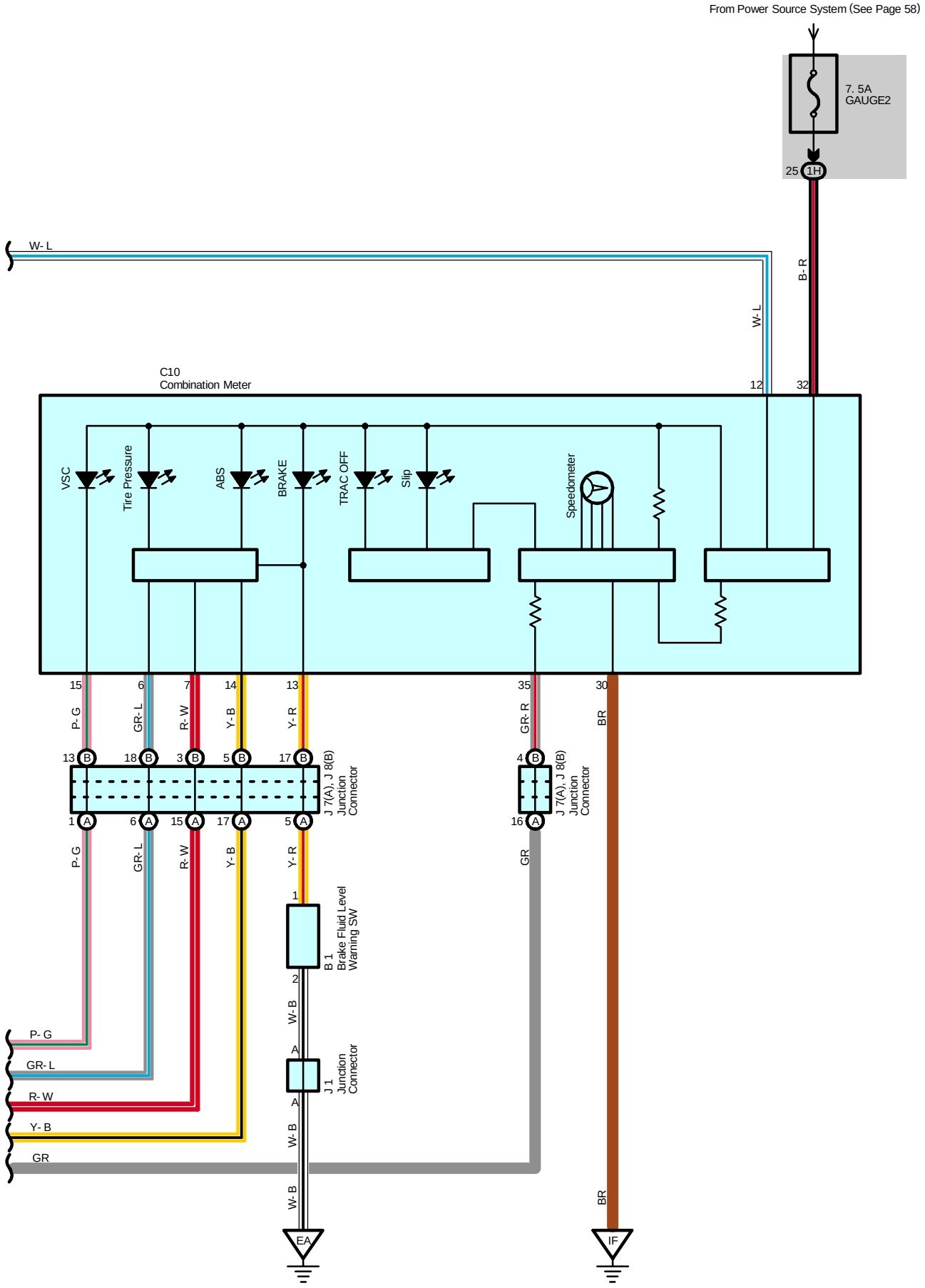
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I2	48	Engine Wire			


B- Y
B- R
V- Y
VSC FAIL Relay
VSC MTR Relay
A27 ABS Speed Sensor Rear LH
A28 ABS Speed Sensor Rear RH
IB1
IL1
MRF
MR
R+
BM
+BS
RL+
RL-
RR+
RR-
S 3
Skid Control ECU with Actuator
INIT
CSW
PKB
GND1
GND2
SP1
D/G
WFSE
TS
F 6(A), F10(E), F12(G)
Fusible Link Block
30A ABS2
50A ABS1
FL MAIN
3. 0W
Battery
T 4
Tire Pressure Warning Standardization SW
T 5
TRAC Off SW
J 5(A), J 6(B) Junction Connector
J 7(A), J 8(B) Junction Connector
J18 Junction Connector
P 6
Parking Brake SW
(*1)
(*2)
IE
ED
D 1
Data Link Connector 3
SIL
CANL
CANH


* 1 : Automatic A/C
* 2 : Except *1
* 3 : w/ Dynamic Laser Cruise Control
* 4 : Except *3
From Power Source System (See Page 58)
10A ECU- IG
10A STOP
E 4
Engine Control Module
A 3 ABS Speed Sensor Front LH
A 4 ABS Speed Sensor Front RH
NEO
ENG+
ENG-
TRC+
TRC-
J 3(A), J 4(B) Junction Connector
S12 Stop Light SW
J 2 Junction Connector
S 3
Skid Control ECU with Actuator
FL+
FL-
FR+
FR-
IG1
BRL
WA
WTIR
VSCW
CANH
CANL
BZ
STPO
STP1
STP2
J 5(A), J 6(B) Junction Connector
W- R(*3)
G- O
B- R
W
B
P- G
GR- L
R- W
Y- B
GR


From Power Source System (See Page 58)
* 3 : w/ Dynamic Laser Cruise Control
* 4 : Except *3
10A
ECU- B
8 2C
W- L
24 1C
7 1L
J15
Junction
Connector
W
C
(*3)
B- R
J28
Junction
Connector
4 IK1
BRK Relay
5
1
4
3
2
6
V 6
VSC Warning Buzzer
Buzzer
128 (*1)
118 (*2)
87
126
J18
Junction
Connector
J19
Junction
Connector
S 9
Steering
Sensor
IG1
BAT
ESS
CANL
CANH
J31(A), J32(B)
Junction
Connector
16 A
8 A
7 A
8 B
16 B
15 B
CANL
CANH
IG
GND
Y 1
Yaw Rate Sensor
J20
Junction
Connector
J17
Junction
Connector
J42
Junction
Connector
53
42
G- W
G- Y
W- R
G- O
B- R
W
B
P- G
GR- L
R- W
Y- B
GR
W- B
IG
BL


From Power Source System (See Page 58)
7. 5A
GAUGE2
25
1H
B- R
W- L
W- L
C10
Combination Meter
12
32
VSC
Tire Pressure
ABS
BRAKE
TRAC OFF
Slip
Speedometer
15
6
7
14
13
35
30
P- G
GR- L
R- W
Y- B
Y- R
GR- R
BR
13
18
3
5
17
4
B
J 7(A), J 8(B)
Junction
Connector
1
6
15
17
5
16
A
GR
1
B 1
Brake Fluid Level
Warning SW
2
W- B
A
J 1
Junction
Connector
A
W- B
W- B
P- G
GR- L
R- W
Y- B
GR
BR
EA
IF

VSC and Tire Pressure Warning System

System Outline

The vehicle could be in an extreme over steering or under steering tendency due to unexpected accidents, road conditions, vehicle speed, or by other external factors. In such a case, this system automatically controls the engine output and the braking to each wheel, to decrease the extreme over steering and under steering.

* To decrease extreme over steering tendency

When the system determines that the over steering tendency is large, the system applies brakes to the outer wheels according to the degree of over steering, and creates a moment towards the outer side of the vehicle, to decrease the tendency of over steering. Also, when the brakes are applied, the vehicle speed decreases while the stability increases.

* To decrease extreme under steering tendency

When the system determines that the under steering tendency is large, the system applies brakes to the front or rear wheels according to the degree of under steering, to decrease the tendency of under steering.

* TRAC off SW

TRAC off SW is only for two-wheel drive models. Four-wheel drive models is needless this SW.

The SW to send the traction control system into OFF mode. When the SW is pushed after starting the engine, the system will be in OFF mode, and the TRAC OFF indicator light will turn on. When the SW is pushed again, the system will be in standby mode. When the engine is stopped and re-started, regardless of the TRAC off SW, the system will be in standby mode.

Information to the driver

The VSC system informs the driver when the tire grip is about to exceed its grip capacity, by blinking the slip indicator light and emiting an intermittent sound of the buzzer. Accordingly, the driver is informed to drive more gently.

Service Hints

S3 Skid Control ECU with Actuator

31-Ground : Always approx. 12 volts
46-Ground : Approx. 12 volts with the ignition SW at ON position
1, 32-Ground : Always continuity

A3, A4 ABS Speed Sensor Front LH, RH

1-2 : Approx. 1.07 kΩ (20˚C, 68˚F)

A27, A28 ABS Speed Sensor Rear LH, RH

1-2 : Approx. 1.1 kΩ (25˚C, 77˚F)

S12 Stop Light SW

2-1 : Closed with the brake pedal depressed

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	32	J2	33	J28	36
A4	32	J3 A	36	J31 A	36
A27	38	J4 B	36	J32 B	36
A28	38	J5 A	36	J42	39
B1	32	J6 B	36	P6	37
C10	35	J7 A	36	S3	33
D1	35	J8 B	36	S9	37
E4	35	J15	36	S12	37
F6 A	32	J17	36	T4	37
F10 E	32	J18	36	T5	37
F12 G	32	J19	36	V6	37
J1	33	J20	36	Y1	41

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
5	25	R/B No.5 (Engine Compartment Left)
6	25	R/B No.6 (Engine Compartment Left)

: **Junction Block and Wire Harness Connector**

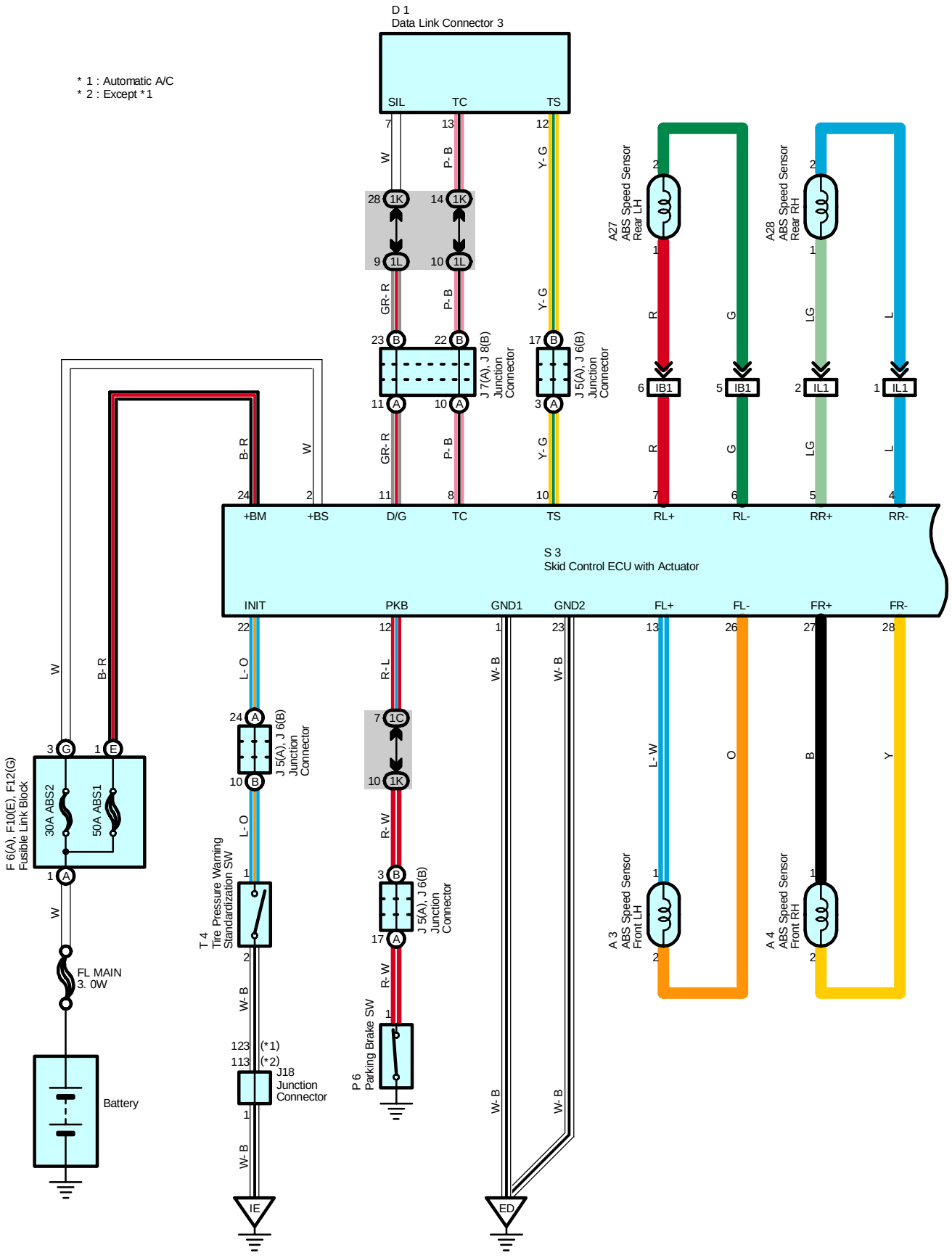
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K	27	
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

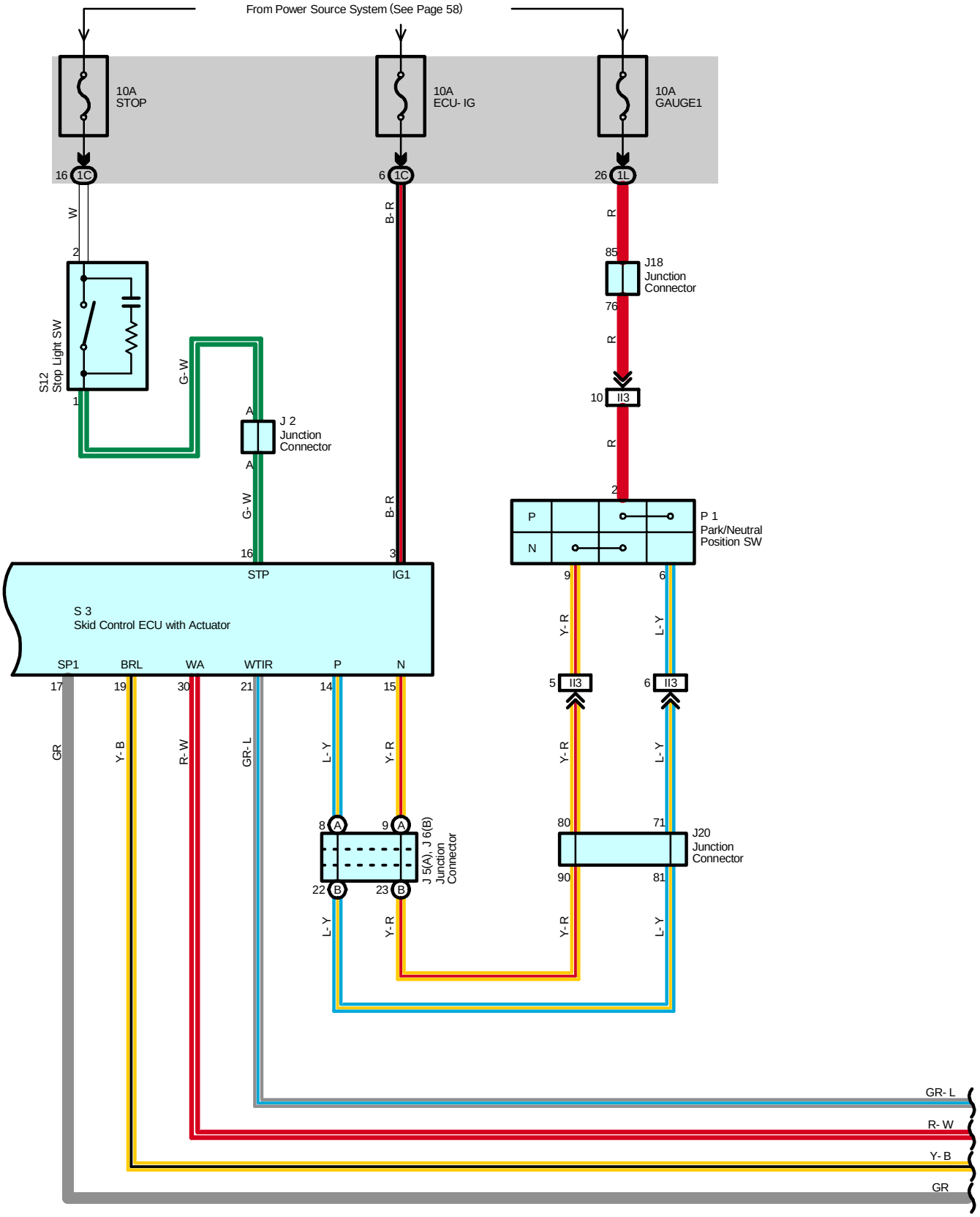
: **Connector Joining Wire Harness and Wire Harness**

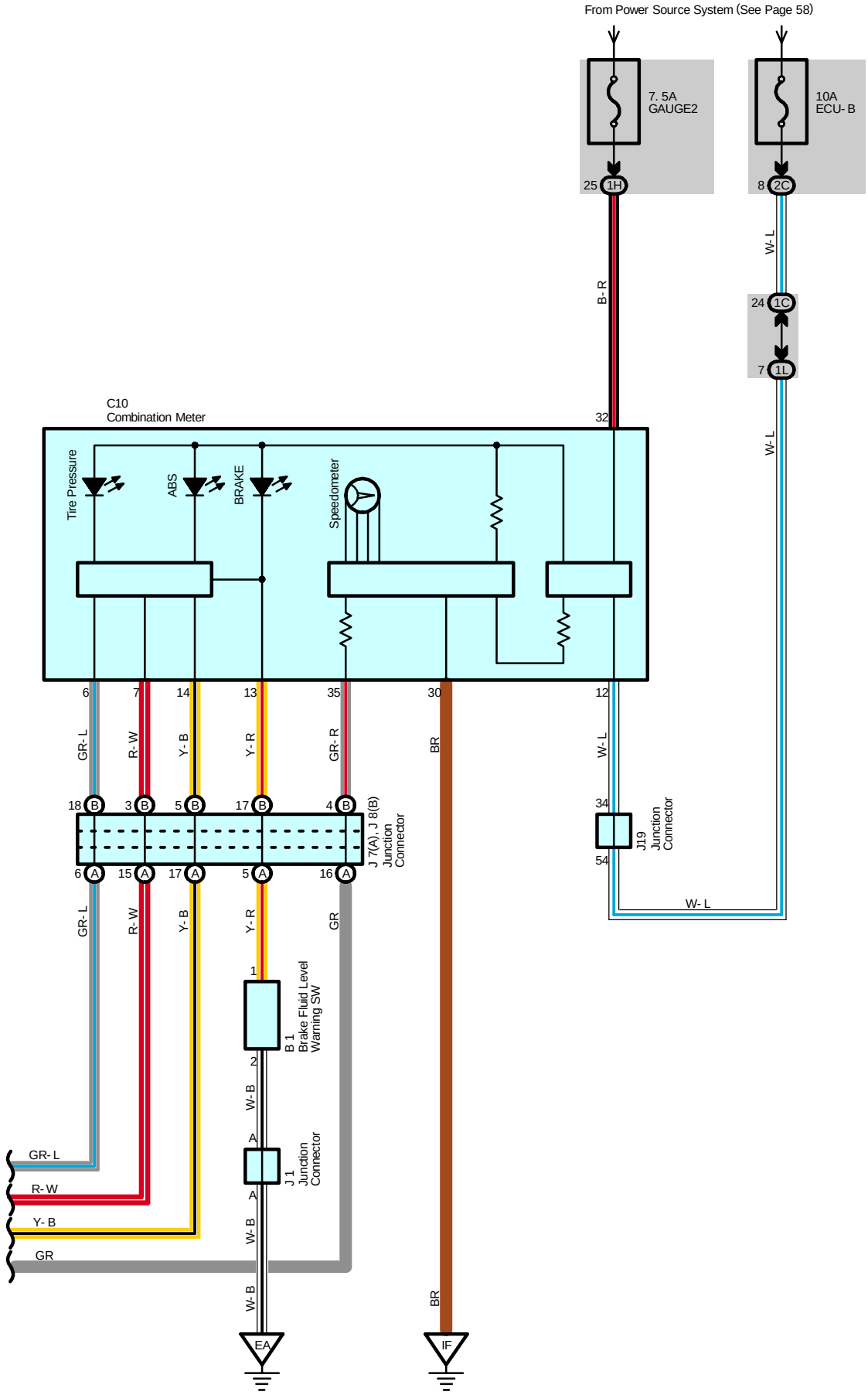
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	46	Engine Room Main Wire and Floor No.1 Wire (Left Cowl Side Panel)
IK1	48	Engine Room Main Wire and Instrument Panel Wire (Right Kick Panel)
IL1	48	Engine Room Main Wire and Floor No.2 Wire (Right Kick Panel)

: **Ground Points**

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel
BL	50	Right Rear Quarter Panel


* 1 : Automatic A/C
* 2 : Except *1
D 1
Data Link Connector 3
SIL
TC
TS
W
P- B
Y- G
GR- R
J 7(A), J 8(B) Junction Connector
J 5(A), J 6(B) Junction Connector
A27 ABS Speed Sensor Rear LH
A28 ABS Speed Sensor Rear RH
R
G
LG
L
IB1
IL1
B- R
+BM
+BS
D/G
RL+
RL-
RR+
RR-
S 3
Skid Control ECU with Actuator
INIT
PKB
GND1
GND2
FL+
FL-
FR+
FR-
L- O
R- L
R- W
W- B
L- W
O
B
Y
F 6(A), F10(E), F12(G) Fusible Link Block
30A ABS2
50A ABS1
FL MAIN
3. 0W
Battery
T 4
Tire Pressure Warning Standardization SW
(*1)
(*2)
J18 Junction Connector
P 6
Parking Brake SW
A 3
ABS Speed Sensor Front LH
A 4
ABS Speed Sensor Front RH
IE
ED


From Power Source System (See Page 58)
10A
STOP
10A
ECU- IG
10A
GAUGE1
16
1C
6
1C
26
1L
W
B- R
R
2
85
J18
Junction
Connector
76
R
S12
Stop Light SW
1
G- W
A
J 2
Junction
Connector
A
10
II3
R
2
G- W
B- R
P
N
P 1
Park/Neutral
Position SW
16
STP
3
IG1
9
6
S 3
Skid Control ECU with Actuator
Y- R
L- Y
SP1
BRL
WA
WTIR
P
N
5
II3
6
II3
17
19
30
21
14
15
GR
Y- B
R- W
GR- L
L- Y
Y- R
Y- R
L- Y
8
A
9
A
80
71
J20
Junction
Connector
J 5(A), J 6(B)
Junction
Connector
22
B
23
B
90
81
L- Y
Y- R
Y- R
L- Y
GR- L
R- W
Y- B
GR


From Power Source System (See Page 58)
7. 5A
GAUGE2
10A
ECU- B
25 1H
8 2C
B- R
W- L
24 1C
7 1L
W- L
C10
Combination Meter
32
Tire Pressure
ABS
BRAKE
Speedometer
6 7 14 13 35 30 12
GR- L
R- W
Y- B
Y- R
GR- R
BR
W- L
18 B 3 B 5 B 17 B 4 B
J 7(A), J 8(B)
Junction
Connector
34
J19
Junction
Connector
54
W- L
6 A 15 A 17 A 5 A 16 A
GR- L
R- W
Y- B
Y- R
GR
1
B 1
Brake Fluid Level
Warning SW
2
W- B
A
J 1
Junction
Connector
A
W- B
GR- L
R- W
Y- B
GR
W- B
EA
BR
IF

System Outline

ABS system controls the respective brake fluid pressures acting on the disc brake cylinders of the four wheels when the brakes are applied in a panic stop, so that the wheels do not lock. This results in improved directional stability and steerability during panic braking.

Tire pressure warning system turns on the tire pressure warning light and warns the driver of low tire pressure, when driving with a low tire pressure, which may cause trouble driving.
However, this system can detect the low tire pressure condition only if one of the tires has such a condition in particular compared to other tires, and it cannot detect. Therefore, it can not detect natural (Gradual) air loss occurring to the tires.

1. Input Signals

(1) Speed sensor signal
The speed of the wheels is detected and input to TERMINALS FL+, FR+, RL+ and RR+ of the skid control ECU with actuator.

(2) Stop light SW signal
A signal is input to TERMINAL STP of the skid control ECU with actuator when the brake pedal is operated.

(3) Standardization SW Signal
A signal is input to TERMINAL INIT of the skid control ECU with actuator when the tire pressure warning standardization SW in operated.

(4) Parking position signal
A signal is input to TERMINAL P of the skid control ECU with actuator when the Shift lever at ”P” position.

(5) Neutral position signal
A signal is input to TERMINAL N of the skid control ECU with actuator when the Shift lever at ”N” position.

2. ABS System Operation

During sudden braking the skid control ECU with actuator has signals input from each sensor, which controls the current to the solenoid inside the actuator and lets the hydraulic pressure acting on each wheel cylinder escape to the reservoir. The pump inside the actuator is also operating at this time, and it returns the brake fluid from the reservoir to the master cylinder, thus preventing locking of the vehicle wheels.
If the skid control ECU with actuator judges that the hydraulic pressure acting on the wheel cylinder is insufficient, the current on the solenoid is controlled and the hydraulic pressure is increased. Holding of the hydraulic pressure is also controlled by the skid control ECU with actuator, by the same method as above. Pressure reduction, holding and increase are repeated to maintain vehicle stability and to improve steerability during sudden braking.

3. Operation of Tire Pressure Warning System

In accordance with the reduction of tire pressure, tire diameter becomes small and the tire rotation speed becomes greater.
In the relation between the difference of the vehicle speed of normal wheels and the low pressure wheel and the tire pressure, based on the speed signal detected during driving, it detects the change of the tire pressure.
As a result, if the system judges that the tire pressure has reduced, it turns on the tire pressure warning light and warn the driver using the signal from the skid control ECU with actuator.

Service Hints

S3 Skid Control ECU with Actuator

2, 24-Ground : Always approx. 12 volts
3-Ground : Approx. 12 volts with the ignition SW at ON position
16-Ground : Approx. 12 volts with the brake pedal depressed
1, 23-Ground : Always continuity

A3, A4 ABS Speed Sensor Front LH, RH

1-2 : Approx. 1.07 kΩ (20 ˚C, 68 ˚F)

A27, A28 ABS Speed Sensor Rear LH, RH

1-2 : Approx. 1.1 kΩ (25 ˚C, 77 ˚F)

S12 Stop Light SW

2-1 : Closed with the brake pedal depressed

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	32	F10 E	32	J18	36
A4	32	F12 G	32	J19	36
A27	38	J1	33	J20	36
A28	38	J2	33	P1	33
B1	32	J5 A	36	P6	37
C10	35	J6 B	36	S3	33
D1	35	J7 A	36	S12	37
F6 A	32	J8 B	36	T4	37

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K	27	
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	46	Engine Room Main Wire and Floor No.1 Wire (Left Cowl Side Panel)
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IL1	48	Engine Room Main Wire and Floor No.2 Wire (Right Kick Panel)

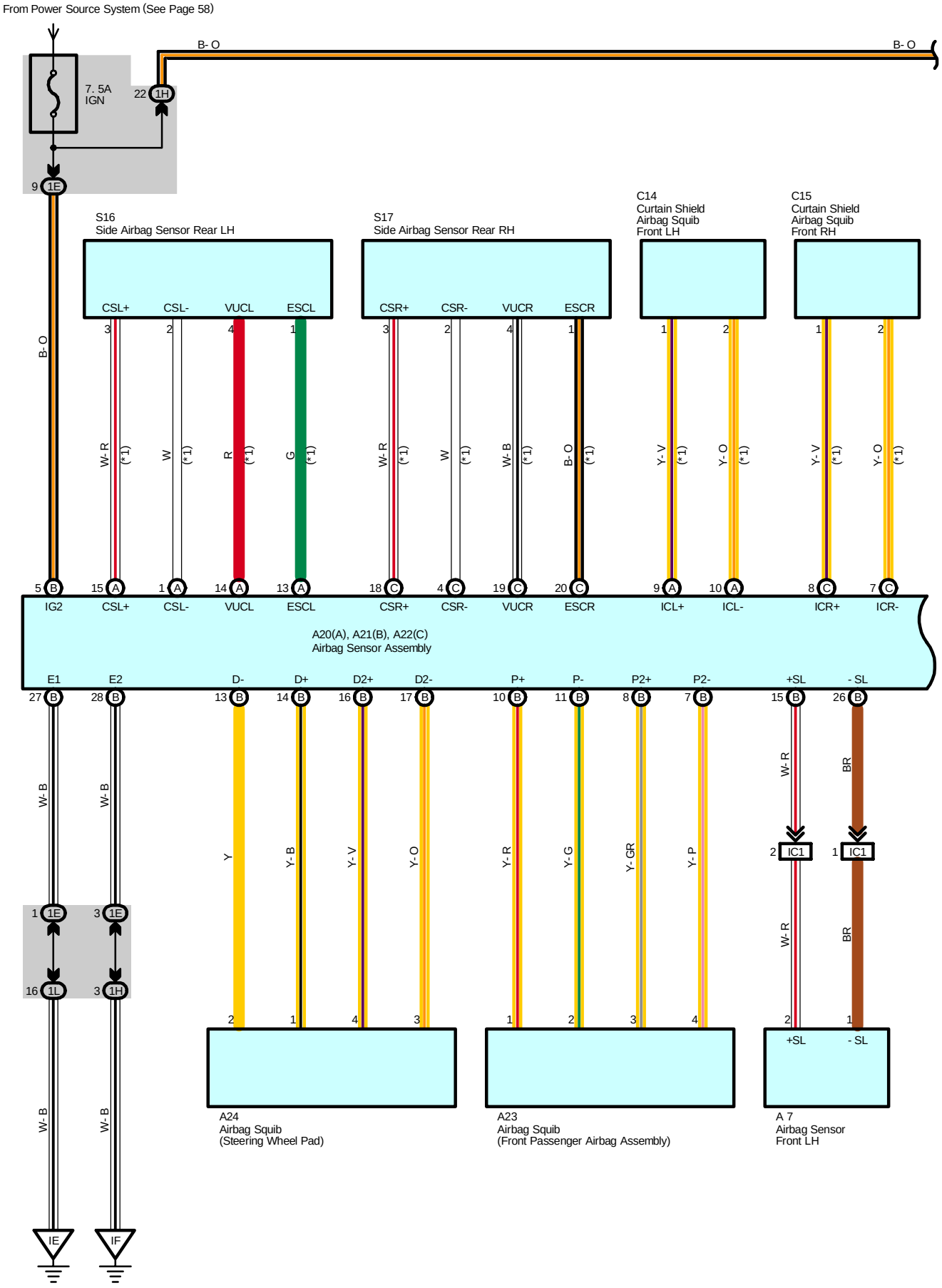
: Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH

NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

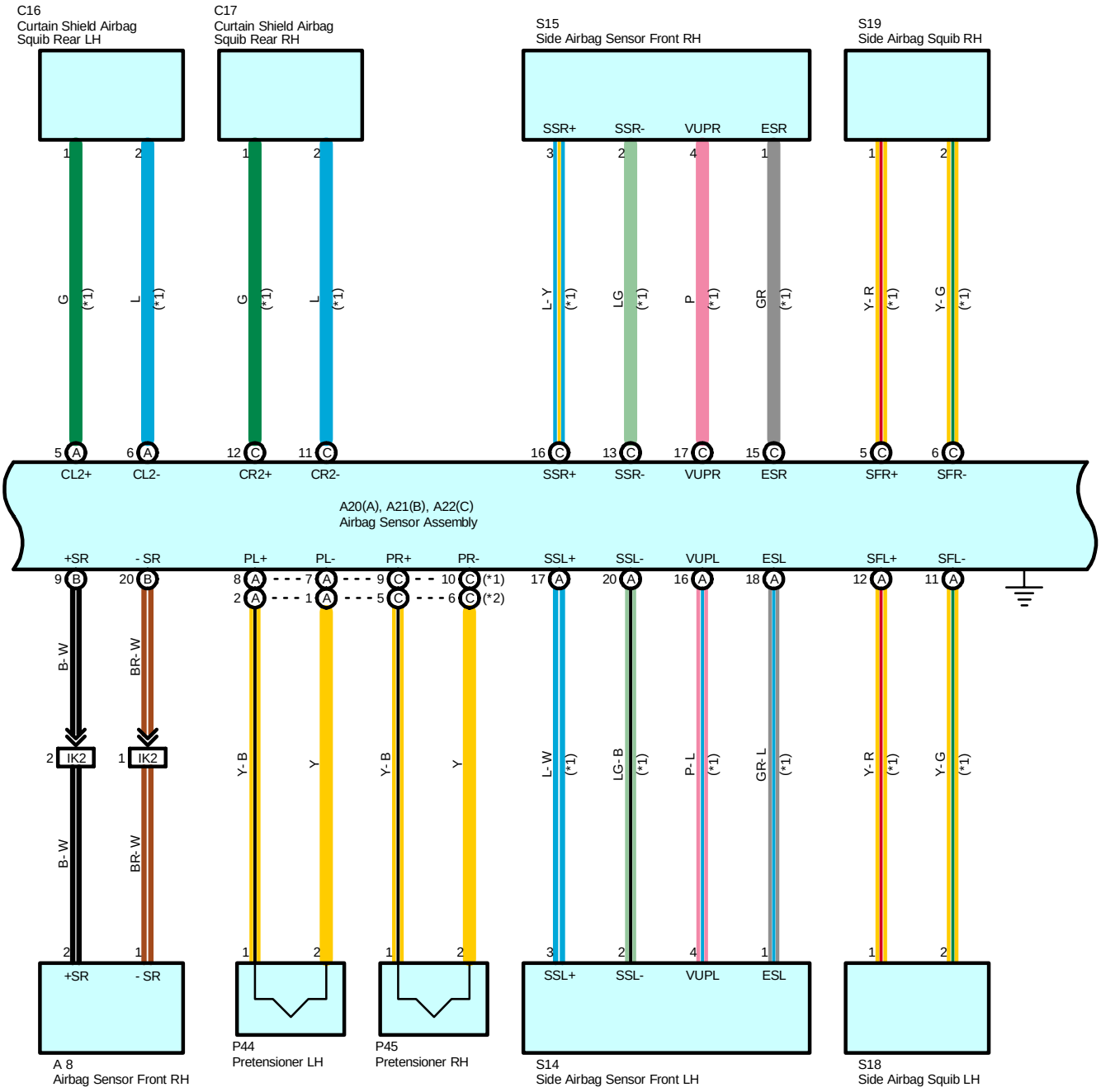
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.**
  (The SRS is equipped with a back-up power source so that if work is started within 90 seconds from disconnecting the negative (-) terminal cable of the battery, the SRS may deploy.)
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be cleared. So before starting work, make a record of the contents in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. Some vehicles have power tilt steering, power telescopic steering, power seat and power outside rear view mirror which are all equipped with memory function. However, it is not possible to make a record of these memory contents. So when the work is finished, it will be necessary to explain it to your customer, and ask the customer to adjust the features and reset the memory. To avoid erasing the memory in each system, never use a back-up power supply from outside the vehicle.
- Before repair, remove the airbag sensor if shocks are likely to be applied to the sensor during repair.
- Do not expose the following parts directly to hot air or flame;
- Even in cases of a minor collision where the SRS does not deploy, the following parts should be inspected;
- Never use SRS parts from another vehicle. When replacing parts, replace with new parts.
- For the purpose of reuse, never disassemble and repair the following parts.
- If the following parts have been dropped, or have cracks, dents and other defects in their case, bracket, and connector, replace with new one.
- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting electrical circuits of the system.
- Information labels are attached to the periphery of the SRS components. Follow the instructions of the notice.
- After work on the SRS is completed, check the SRS warning light.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.

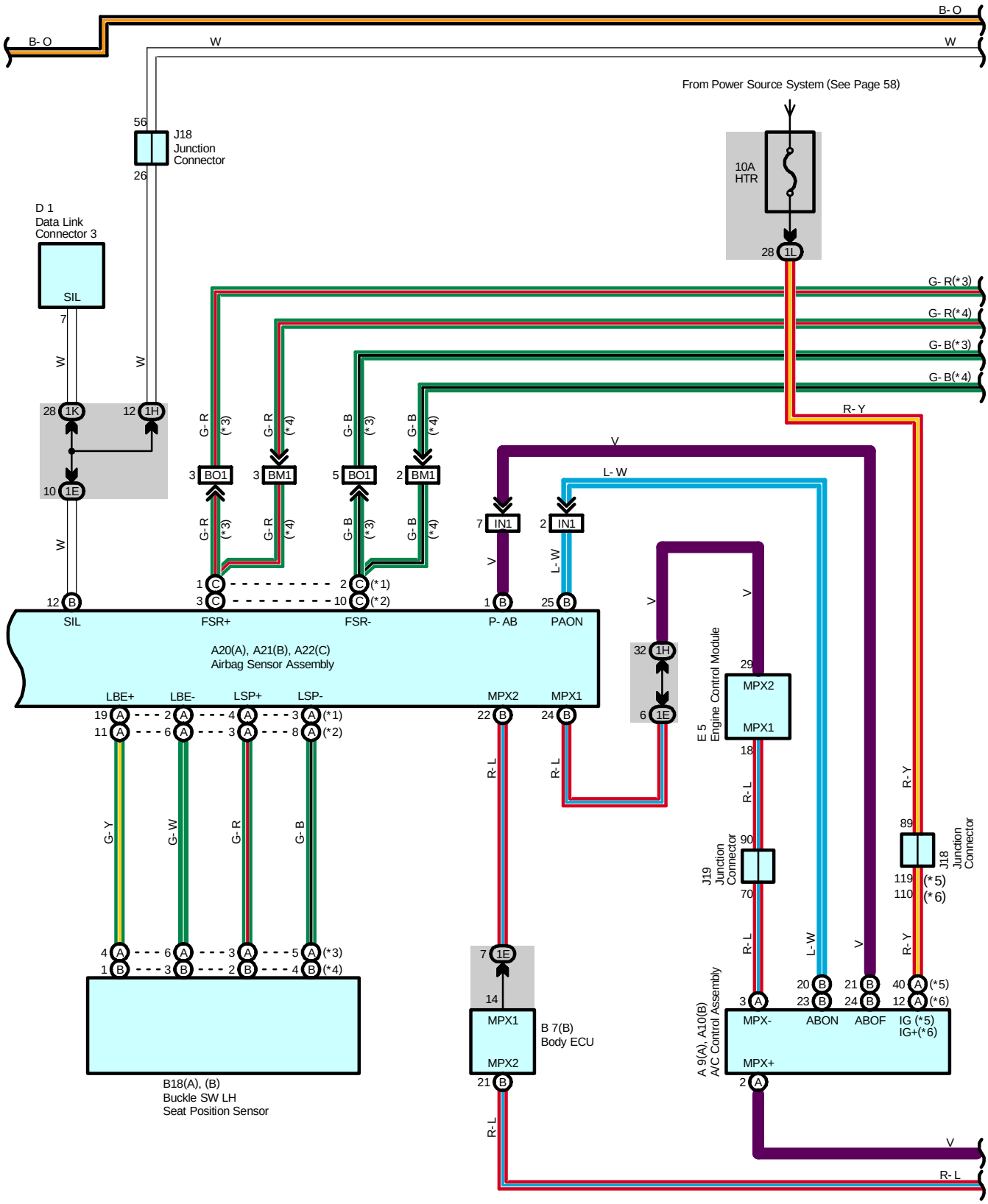
* Steering wheel pad
* Front passenger airbag assembly
* Side airbag assembly
* Curtain shield airbag assembly
* Seat belt pretensioner
* Center airbag sensor assembly
* Front airbag sensor assembly
* Side airbag sensor assembly
* Rear airbag sensor assembly

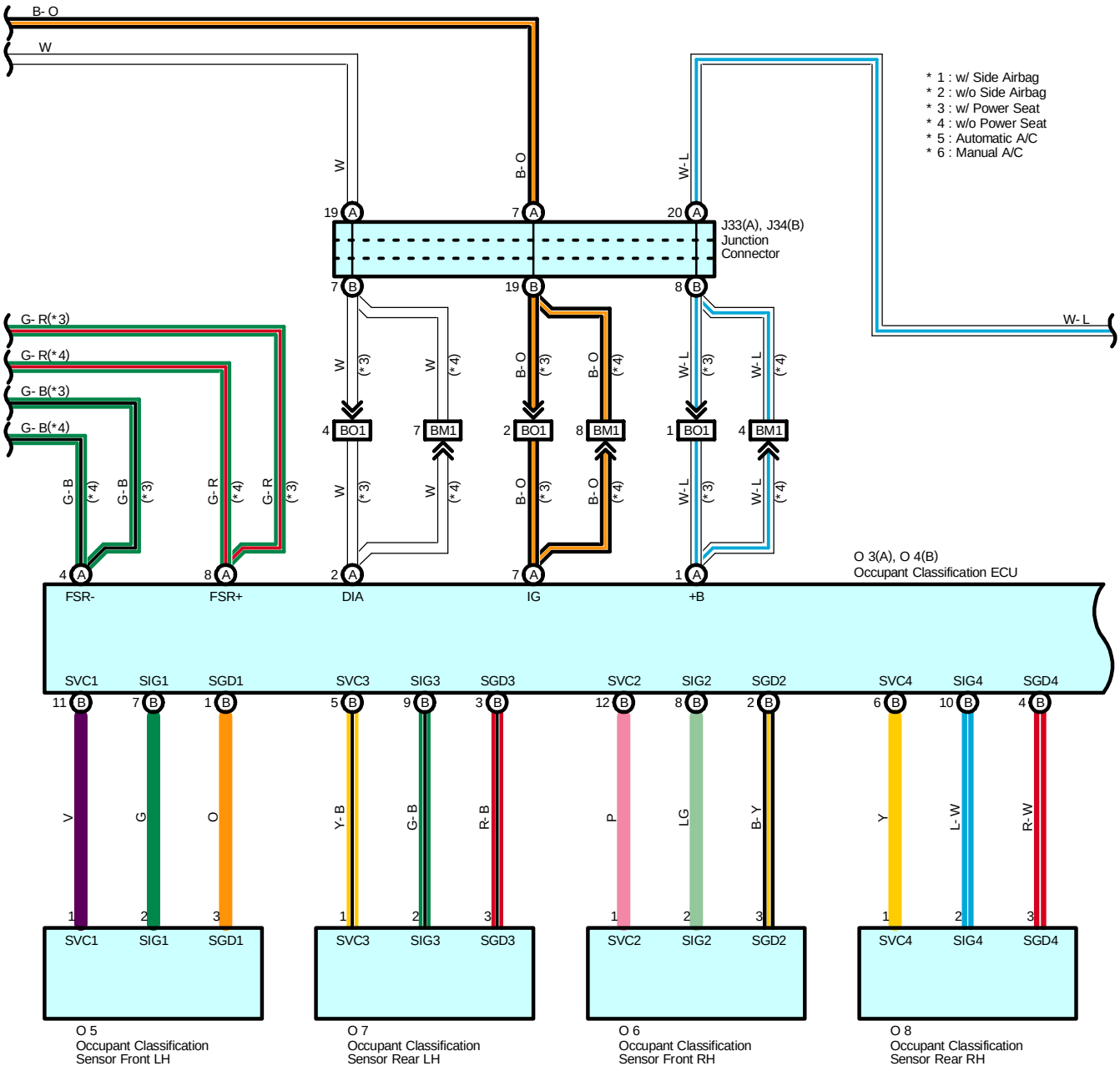

From Power Source System (See Page 58)
B- O
B- O
7. 5A
IGN
22 1H
9 1E
S16
Side Airbag Sensor Rear LH
S17
Side Airbag Sensor Rear RH
C14
Curtain Shield
Airbag Squib
Front LH
C15
Curtain Shield
Airbag Squib
Front RH
CSL+
CSL-
VUCL
ESCL
CSR+
CSR-
VUCR
ESCR
W- R
W
R
G
W- B
B- O
Y- V
Y- O
(*1)
5 B IG2
15 A CSL+
1 A CSL-
14 A VUCL
13 A ESCL
18 C CSR+
4 C CSR-
19 C VUCR
20 C ESCR
9 A ICL+
10 A ICL-
8 C ICR+
7 C ICR-
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
E1
E2
D-
D+
D2+
D2-
P+
P-
P2+
P2-
+SL
- SL
27 B
28 B
13 B
14 B
16 B
17 B
10 B
11 B
8 B
7 B
15 B
26 B
Y
Y- B
Y- V
Y- O
Y- R
Y- G
Y- GR
Y- P
BR
2 IC1
1 IC1
1 1E
3 1E
16 1L
3 1H
IE
IF
2
1
4
3
+SL
- SL
A24
Airbag Squib
(Steering Wheel Pad)
A23
Airbag Squib
(Front Passenger Airbag Assembly)
A 7
Airbag Sensor
Front LH



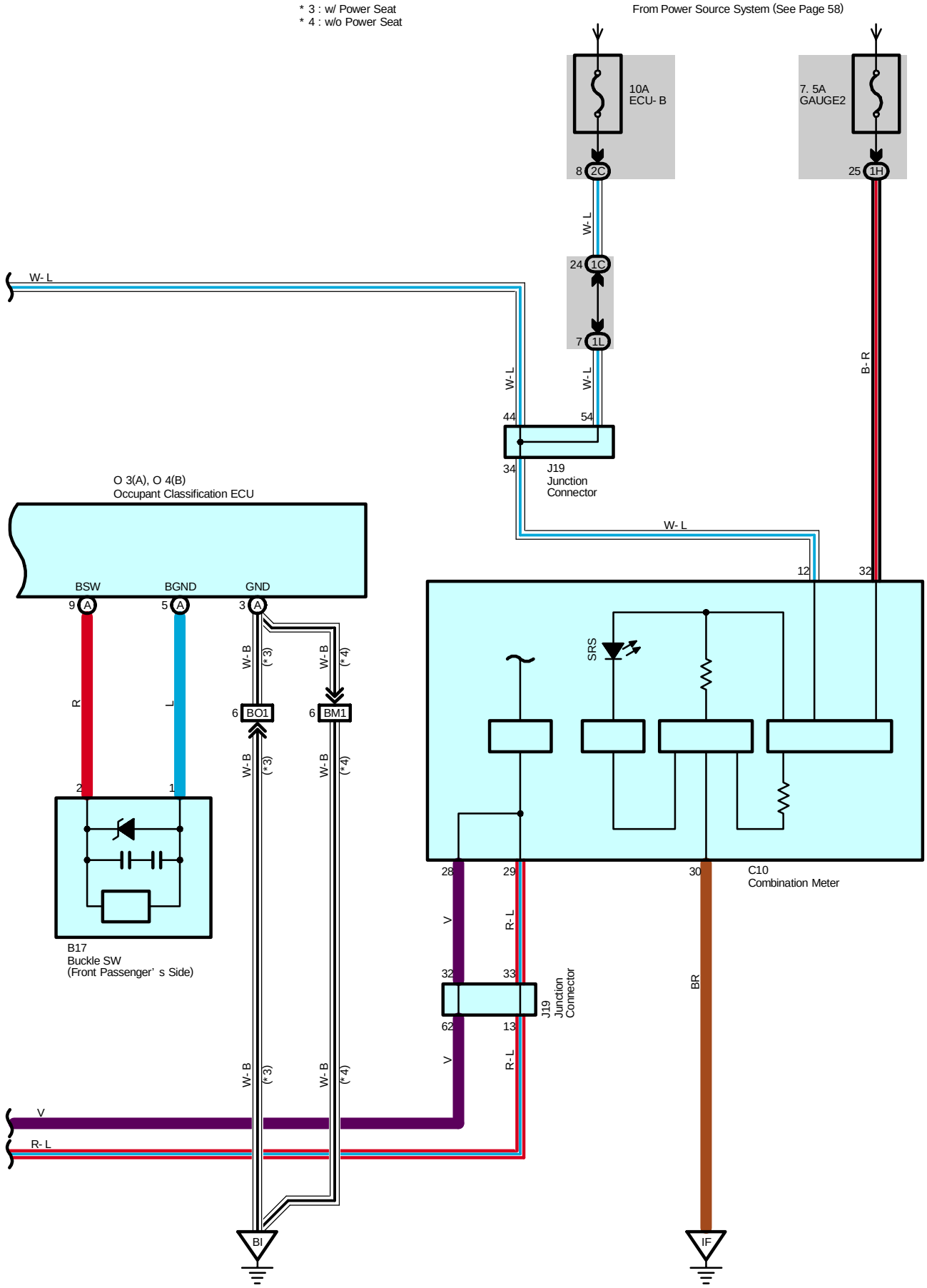
* 1 : w/ Side Airbag
* 2 : w/o Side Airbag




B- O
W
From Power Source System (See Page 58)
56
J18
Junction
Connector
26
10A
HTR
28 1L
D 1
Data Link
Connector 3
SIL
7
G- R(*3)
G- R(*4)
G- B(*3)
G- B(*4)
R- Y
28 1K
12 1H
10 1E
G- R
G- B
(*3)
(*4)
3 BO1
3 BM1
5 BO1
2 BM1
V
L- W
7 IN1
2 IN1
1 C
2 C
3 C
10 C
(*1)
(*2)
12 B
1 B
25 B
SIL
FSR+
FSR-
P- AB
PAON
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
LBE+
LBE-
LSP+
LSP-
MPX2
MPX1
19 A
11 A
2 A
6 A
4 A
3 A
3 A
8 A
22 B
24 B
32 1H
6 1E
29
MPX2
MPX1
E 5
Engine Control Module
18
R- L
G- Y
G- W
G- R
G- B
J19
Junction
Connector
90
70
89
J18
Junction
Connector
119
110
(*5)
(*6)
R- Y
4 A
1 B
6 A
3 B
3 A
2 B
5 A
4 B
(*3)
(*4)
7 1E
14
MPX1
MPX2
B 7(B)
Body ECU
21 B
B18(A), (B)
Buckle SW LH
Seat Position Sensor
3 A
20 B
23 B
21 B
24 B
40 A
12 A
(*5)
(*6)
MPX-
ABON
ABOF
IG (*5)
IG+(*6)
MPX+
2 A
A 9(A), A10(B)
A/C Control Assembly
V
R- L


B- O
W
W
B- O
W- L
* 1 : w/ Side Airbag
* 2 : w/o Side Airbag
* 3 : w/ Power Seat
* 4 : w/o Power Seat
* 5 : Automatic A/C
* 6 : Manual A/C
19 A
7 A
20 A
J33(A), J34(B)
Junction
Connector
7 B
19 B
8 B
W- L
G- R(*3)
G- R(*4)
G- B(*3)
G- B(*4)
W (*3)
W (*4)
B- O (*3)
B- O (*4)
W- L (*3)
W- L (*4)
4 BO1
7 BM1
2 BO1
8 BM1
1 BO1
4 BM1
G- B (*4)
G- B (*3)
G- R (*4)
G- R (*3)
W (*3)
W (*4)
B- O (*3)
B- O (*4)
W- L (*3)
W- L (*4)
4 A
8 A
2 A
7 A
1 A
O 3(A), O 4(B)
Occupant Classification ECU
FSR-
FSR+
DIA
IG
+B
SVC1
SIG1
SGD1
SVC3
SIG3
SGD3
SVC2
SIG2
SGD2
SVC4
SIG4
SGD4
11 B
7 B
1 B
5 B
9 B
3 B
12 B
8 B
2 B
6 B
10 B
4 B
V
G
O
Y- B
G- B
R- B
P
LG
B- Y
Y
L- W
R- W
1
2
3
SVC1
SIG1
SGD1
SVC3
SIG3
SGD3
SVC2
SIG2
SGD2
SVC4
SIG4
SGD4
O 5
Occupant Classification
Sensor Front LH
O 7
Occupant Classification
Sensor Rear LH
O 6
Occupant Classification
Sensor Front RH
O 8
Occupant Classification
Sensor Rear RH


V
V
R- L
R- L


* 3 : w/ Power Seat
* 4 : w/o Power Seat
From Power Source System (See Page 58)
10A
ECU- B
7. 5A
GAUGE2
8 2C
25 1H
W- L
24 1C
7 1L
W- L
W- L
B- R
44
54
34
J19
Junction
Connector
W- L
12
32
O 3(A), O 4(B)
Occupant Classification ECU
BSW
BGND
GND
9 A
5 A
3 A
W- B
(* 3)
W- B
(* 4)
R
L
6 BO1
6 BM1
W- B
(* 3)
W- B
(* 4)
2
1
SRS
B17
Buckle SW
(Front Passenger' s Side)
28
29
30
C10
Combination Meter
V
R- L
32
33
J19
Junction
Connector
62
13
V
R- L
BR
W- B
(* 3)
W- B
(* 4)
V
R- L
BI
IF

System Outline

The SRS is a driver and front passenger protection device which has a supplemental role to the seat belts.
When the ignition SW is turned to ON, the current from the IGN fuse flows to TERMINAL (B) 5 of the airbag sensor assembly.
If an accident occurs while driving, when the frontal impact exceeds a set level, the current from the IGN fuse flows to TERMINALS (B) 14, (B) 16, (B) 10, (B) 8, (A) 8 (w/ side airbag) or (A) 2 (w/o side airbag) and (C) 9 (w/ side airbag) or (C) 5 (w/o side airbag) of the airbag sensor assembly to the airbag squibs and the pretensioners to TERMINALS (B) 13, (B) 17, (B) 11, (B) 7, (A) 7 (w/ side airbag) or (A) 1 (w/o side airbag) and (C) 10 (w/ side airbag) or (C) 6 (w/o side airbag) of the airbag sensor assembly to TERMINAL (B) 27, (B) 28 or BODY GROUND to GROUND, so that current flows to the airbag squibs and the pretensioners and causes them to operate.
When the side impact also exceeds a set level, the current from the IGN fuse flows to TERMINALS (A) 12, (C) 5, (A) 9, (C) 8, (A) 5 and (C) 12 of the airbag sensor assembly to the side airbag squibs and the curtain shield airbag squibs TERMINALS (A) 11, (C) 6, (A) 10, (C) 7, (A) 6 and (C) 11 of the airbag sensor assembly to TERMINAL (B) 27, (B) 28 or BODY GROUND to GROUND, causing side airbag squibs and curtain shield airbag squibs to operate.
The airbag stored inside the steering wheel pad is instantaneously expanded to soften the shock to the driver.
The airbag stored inside the passenger's instrument panel is instantaneously expanded to soften the shock to the front passenger.
Side airbags are instantaneously expanded to soften the shock of side to the driver and front passenger.
The curtain shield airbag can ease an impact on the head of the front and rear passengers and reduce risks of injury.
The pretensioners make sure of the driver and front passenger seat belt restrainability.
Occupant detection system recognizes not only whether a passenger is in the seat but also whether the passenger is an adult or a child. According to this information, the airbag sensor assembly controls the airbag deployment and the operation mode (ON/OFF) indicator of the passenger airbag.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A7	32	C15	35	O6	43 (*2)
A8	32	C16	38	O7	42 (*1)
A9 A	34	C17	38		43 (*2)
A10 B	34	D1	35	O8	42 (*1)
A20 A	34	E5	35		43 (*2)
A21 B	34	J18	36	P44	39
A22 C	34	J19	36	P45	39
A23	34	J33 A	36	S14	40
A24	34	J34 B	36	S15	40
B7 B	34	O3 A	42 (*1)	S16	40
B17	42 (*1)		43 (*2)	S17	40
	43 (*2)	O4 B	42 (*1)	S18	42 (*1)
B18 A	42 (*1)		43 (*2)		43 (*2)
B B	43 (*2)	O5	42 (*1)	S19	42 (*1)
C10	35		43 (*2)		43 (*2)
C14	35	O6	42 (*1)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

* 1 : w/ Power Seat * 2 : w/o Power Seat

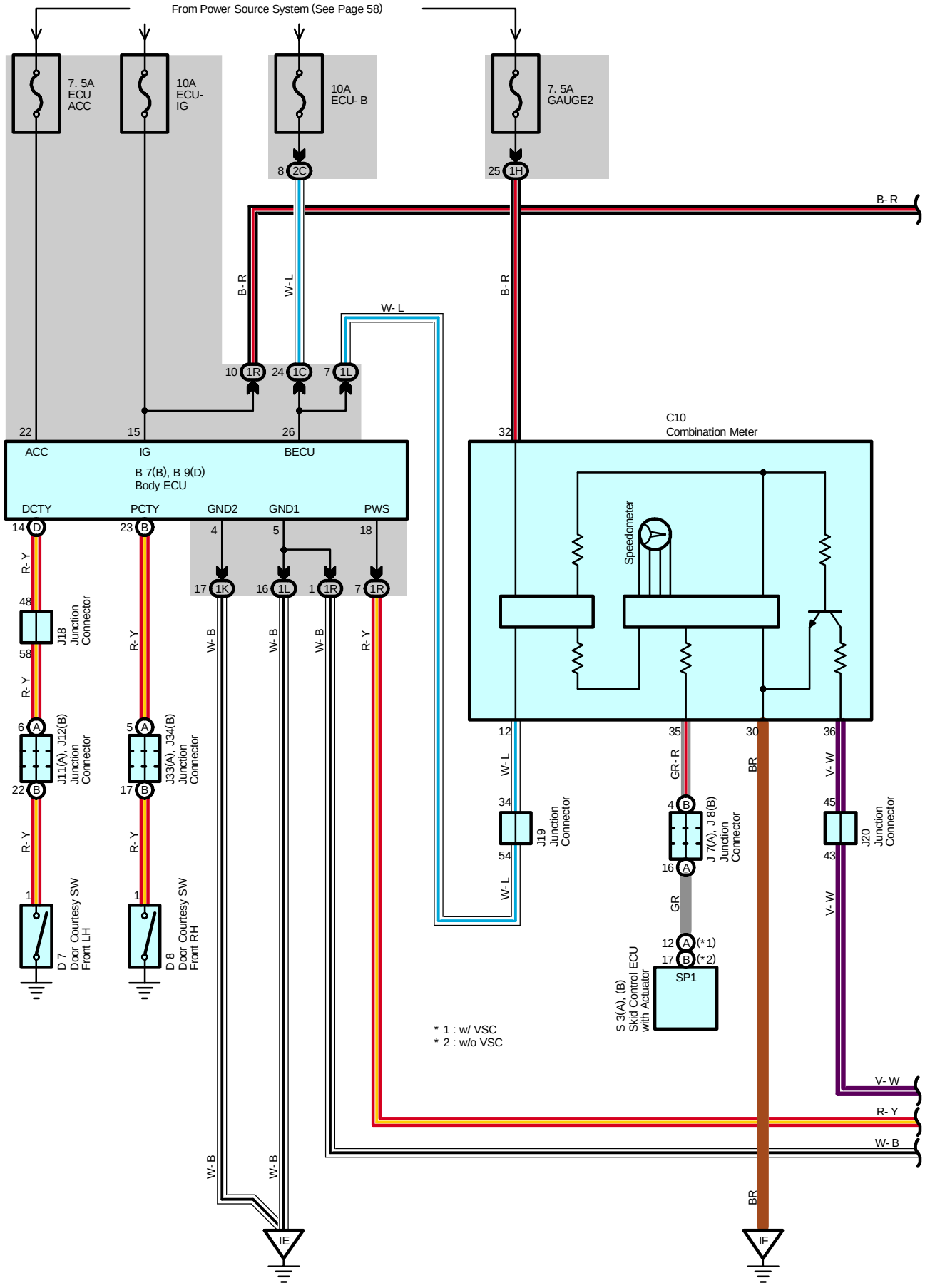
: Connector Joining Wire Harness and Wire Harness

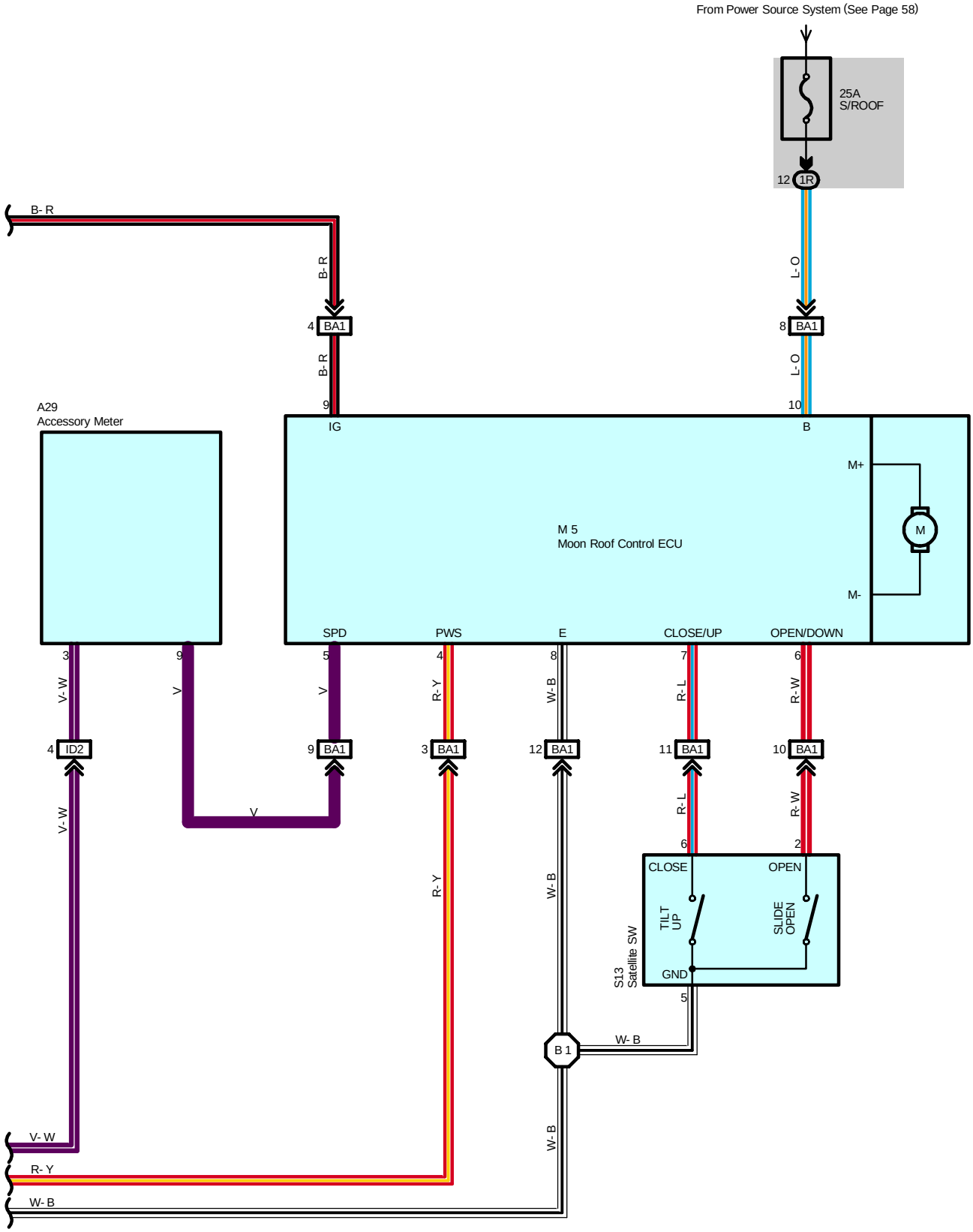
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	46	Engine Room Main Wire and Instrument Panel Wire (Near the Driver Side J/B)
IK2	48	Engine Room Main Wire and Instrument Panel Wire (Right Kick Panel)
IN1	48	Instrument Panel Wire and Instrument Panel Wire (Behind the Combination Meter)
BM1	54 (*2)	Floor No.2 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)
BO1	54 (*1)	Seat No.1 Wire and Floor No.2 Wire (Under the Front Passenger's Seat)

: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
BI	50	Under the Right Center Pillar

* 1 : w/ Power Seat * 2 : w/o Power Seat


From Power Source System (See Page 58)
7. 5A ECU ACC
10A ECU- IG
10A ECU- B
7. 5A GAUGE2
8 2C
25 1H
B- R
B- R
W- L
W- L
B- R
10 1R
24 1C
7 1L
22 ACC
15 IG
26 BECU
32
B 7(B), B 9(D) Body ECU
C10 Combination Meter
Speedometer
DCTY
PCTY
GND2
GND1
PWS
14 D
23 B
4
5
18
17 1K
16 1L
1 1R
7 1R
R- Y
48
58
J18 Junction Connector
R- Y
R- Y
6 A
22 B
J11(A), J12(B) Junction Connector
5 A
17 B
J33(A), J34(B) Junction Connector
R- Y
R- Y
1
1
D 7 Door Courtesy SW Front LH
D 8 Door Courtesy SW Front RH
W- B
W- B
W- B
R- Y
12
W- L
34
54
W- L
J19 Junction Connector
35
GR- R
4 B
16 A
J 7(A), J 8(B) Junction Connector
GR
12 A (*1)
17 B (*2)
SP1
S 3(A), (B) Skid Control ECU with Actuator
30
BR
36
V- W
45
43
J20 Junction Connector
V- W
* 1 : w/ VSC
* 2 : w/o VSC
V- W
R- Y
W- B
W- B
W- B
BR
IE
IF


From Power Source System (See Page 58)
25A
S/ROOF
12
1R
B- R
B- R
4
BA1
B- R
9
IG
L- O
8
BA1
L- O
10
B
A29
Accessory Meter
M 5
Moon Roof Control ECU
M+
M
M-
SPD
PWS
E
CLOSE/UP
OPEN/DOWN
3
V- W
4
ID2
9
V
5
V
9
BA1
4
R- Y
3
BA1
8
W- B
12
BA1
7
R- L
11
BA1
6
R- W
10
BA1
V
V- W
R- L
6
R- W
2
CLOSE
OPEN
TILT
UP
SLIDE
OPEN
S13
Satellite SW
GND
5
R- Y
W- B
W- B
B 1
W- B
V- W
R- Y
W- B

Moon Roof

Service Hints

Body ECU

26-Ground : Always approx. 12 volts
15-Ground : Approx. 12 volts with the ignition SW at ON position
22-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
4, 5-Ground : Always continuity

M5 Moon Roof Control ECU

10-Ground : Always approx. 12 volts
9-Ground : Approx. 12 volts with the ignition SW at ON position
8-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A29	38	J8 B	36	J34 B	36
B7 B	34	J11 A	36	M5	39
B9 D	34	J12 B	36	S3 A	33
C10	35	J18	36	S3 B	33
D7	38	J19	36	S13	40
D8	38	J20	36		
J7 A	36	J33 A	36		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K	27	
1L		
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

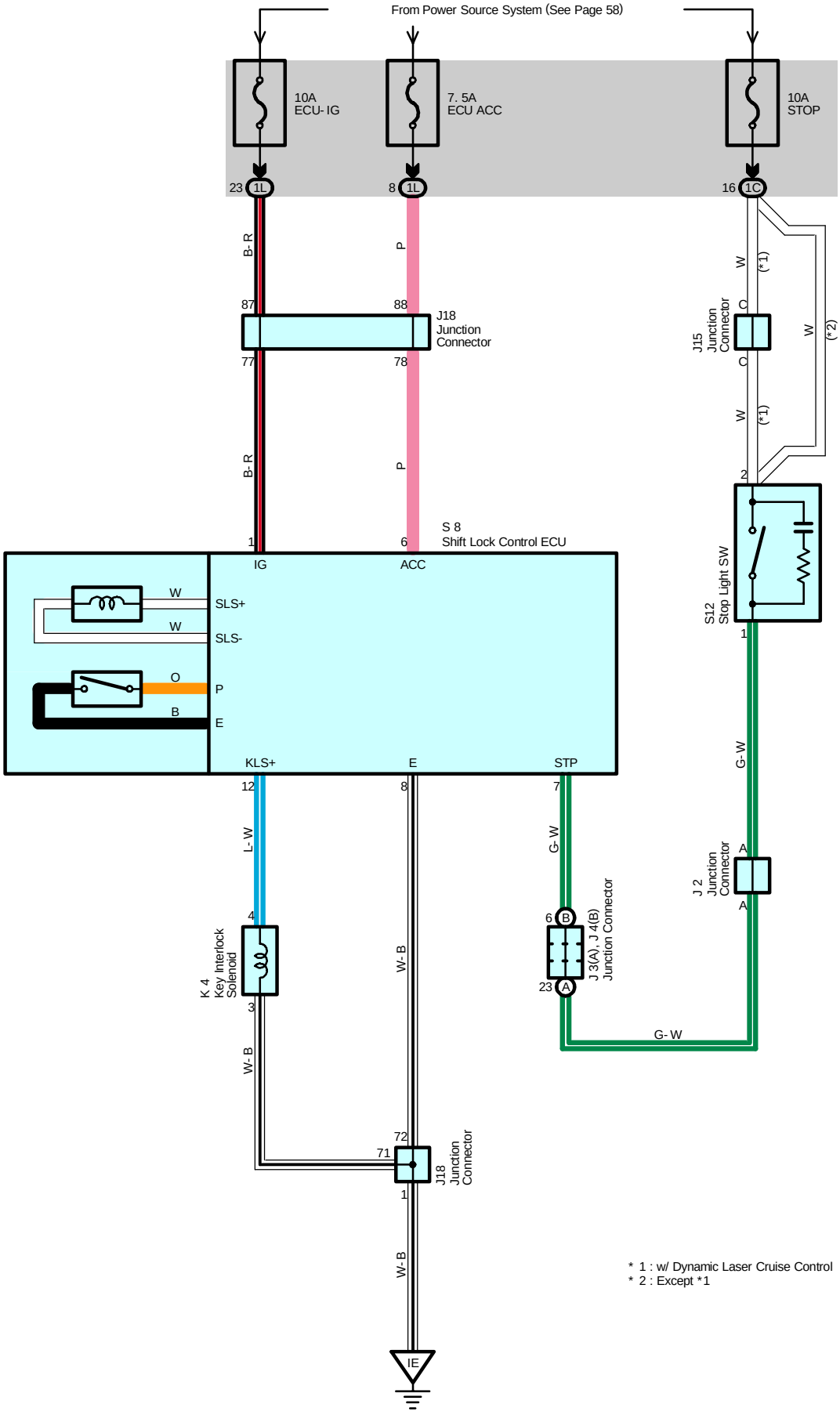
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
BA1	50	Roof No.3 Wire and Roof Wire (Front Side of the Roof)

: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	52	Roof Wire			


From Power Source System (See Page 58)
10A
ECU- IG
7. 5A
ECU ACC
10A
STOP
23 1L
8 1L
16 1C
B- R
P
W
(*1)
87
88
J18
Junction
Connector
77
78
J15
Junction
Connector
C
W
(*2)
B- R
P
2
S 8
Shift Lock Control ECU
1
6
IG
ACC
S12
Stop Light SW
W
SLS+
W
SLS-
O
P
B
E
KLS+
E
STP
12
8
7
G- W
L- W
A
J 2
Junction
Connector
4
6 B
K 4
Key Interlock
Solenoid
J 3(A), J 4(B)
Junction Connector
23 A
W- B
G- W
72
71
J18
Junction
Connector
1
W- B
IE
* 1 : w/ Dynamic Laser Cruise Control
* 2 : Except *1

System Outline

1. Shift Lock Mechanism

When the brake pedal is depressed with the ignition SW is turned on (Stop light SW on), the shift lock control ECU is activated and allows the driver to change the shift lever to a position other than P position.

2. Key Interlock Mechanism

When the ignition SW is turned on and the shift lever is at a position other than P position, shift lock control ECU is activated to flow current to the key interlock solenoid. This inhibits to turn the ignition SW from on to OFF position.

Service Hints

S8 Shift Lock Control ECU

6-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
1-Ground : Approx. 12 volts with the ignition SW at ON position
7-Ground : Approx. 12 volts with the brake pedal depressed
8-Ground : Always continuity

○ : Parts Location

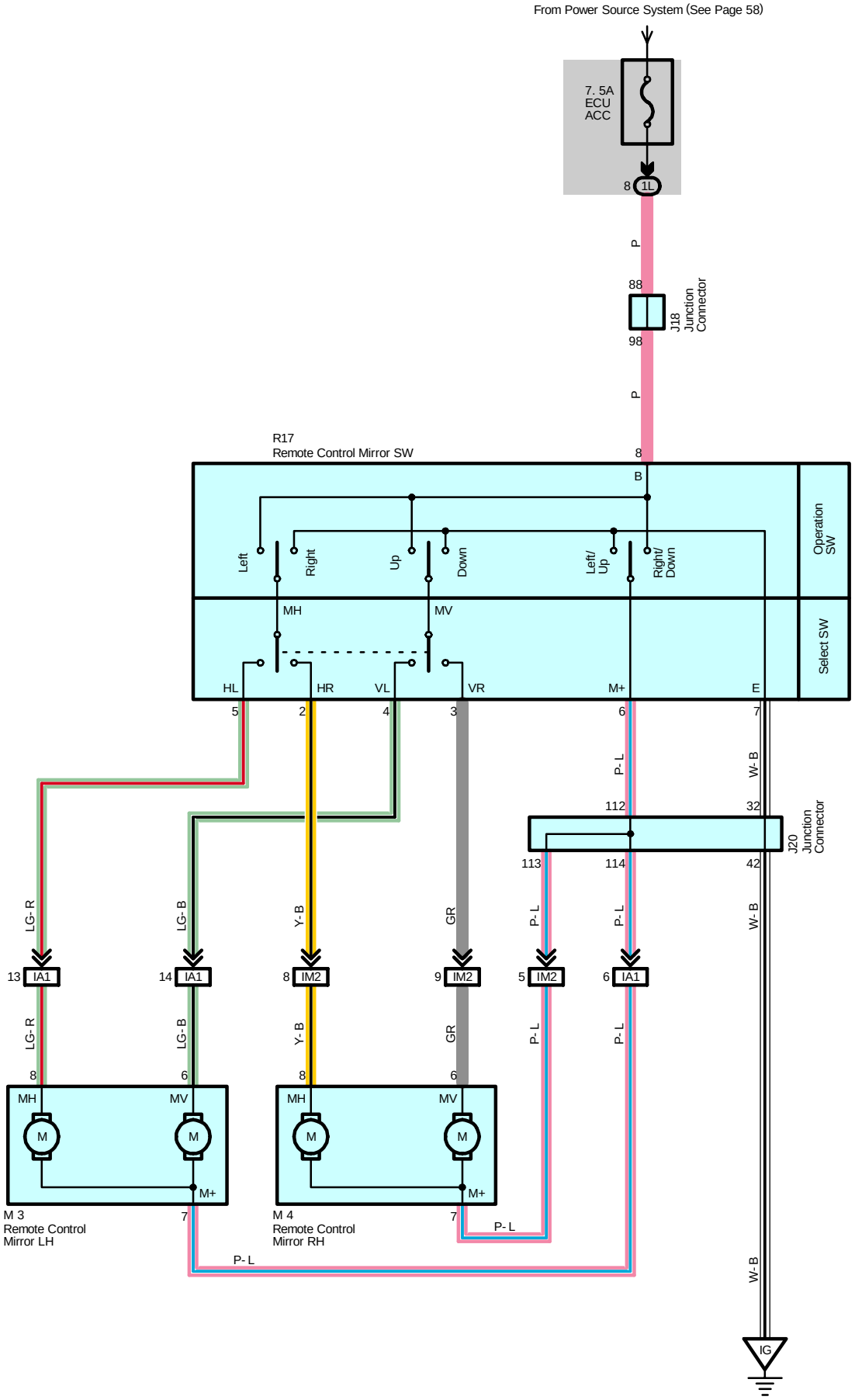
Code		See Page	Code	See Page	Code	See Page
J2		33	J15	36	S8	37
J3	A	36	J18	36	S12	37
J4	B	36	K4	36		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel


From Power Source System (See Page 58)
7. 5A
ECU
ACC
8
1L
P
88
J18
Junction
Connector
98
P
R17
Remote Control Mirror SW
8
B
Operation
SW
Left
Right
Up
Down
Left/
Up
Right/
Down
Select SW
MH
MV
HL
HR
VL
VR
M+
E
5
2
4
3
6
7
P- L
W- B
112
32
J20
Junction
Connector
113
114
42
LG- R
LG- B
Y- B
GR
P- L
P- L
W- B
13
IA1
14
IA1
8
IM2
9
IM2
5
IM2
6
IA1
LG- R
LG- B
Y- B
GR
P- L
P- L
8
6
8
6
MH
MV
MH
MV
M
M
M
M
M+
M+
M 3
Remote Control
Mirror LH
7
M 4
Remote Control
Mirror RH
7
P- L
P- L
W- B
IG

Service Hints

R17 Remote Control Mirror SW

8-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
6-7 : Continuity with the operation SW at UP or LEFT position
8-6 : Continuity with the operation SW at DOWN or RIGHT position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
J18	36	M3	39	R17	37
J20	36	M4	39		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

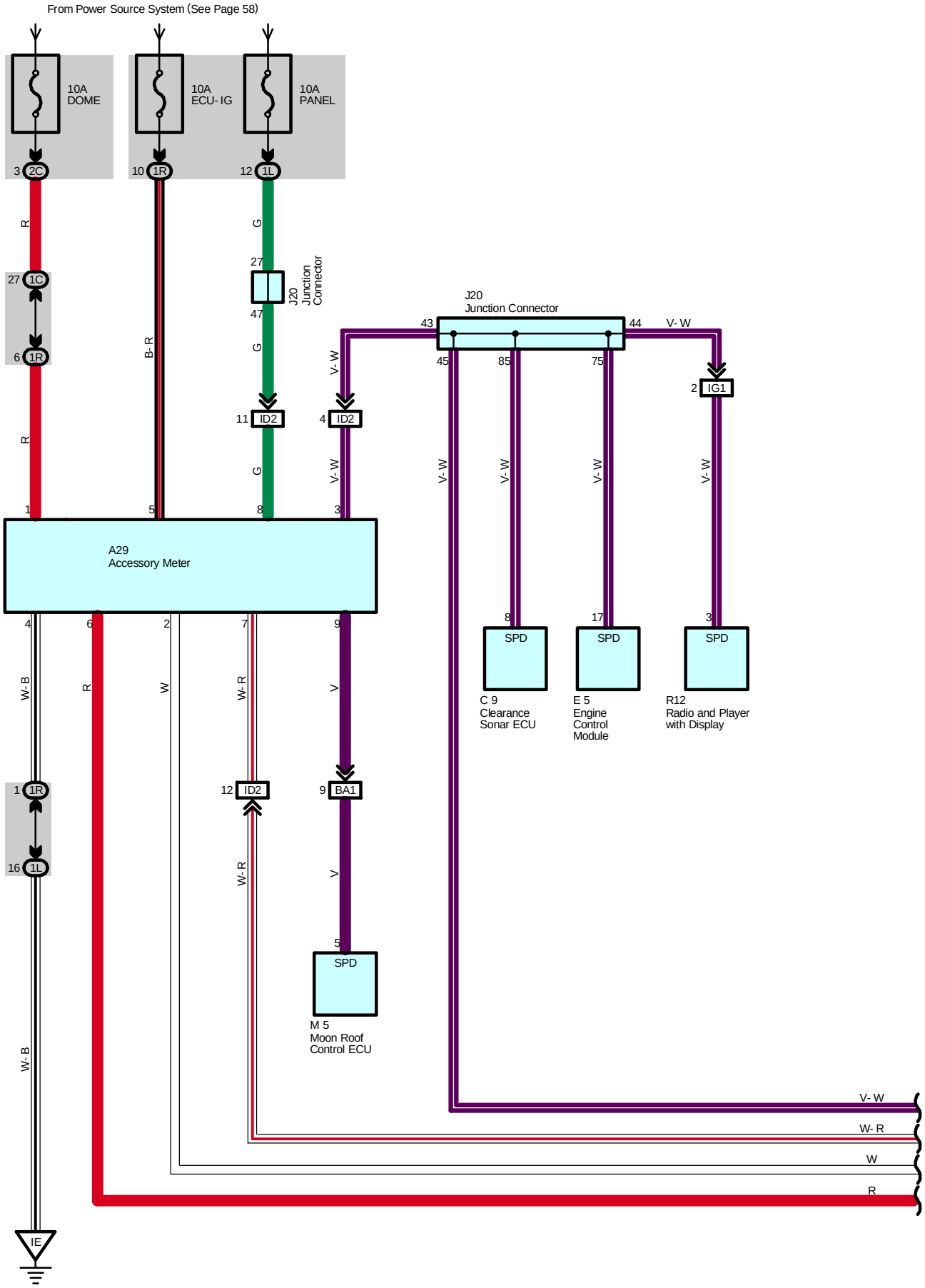
: Connector Joining Wire Harness and Wire Harness

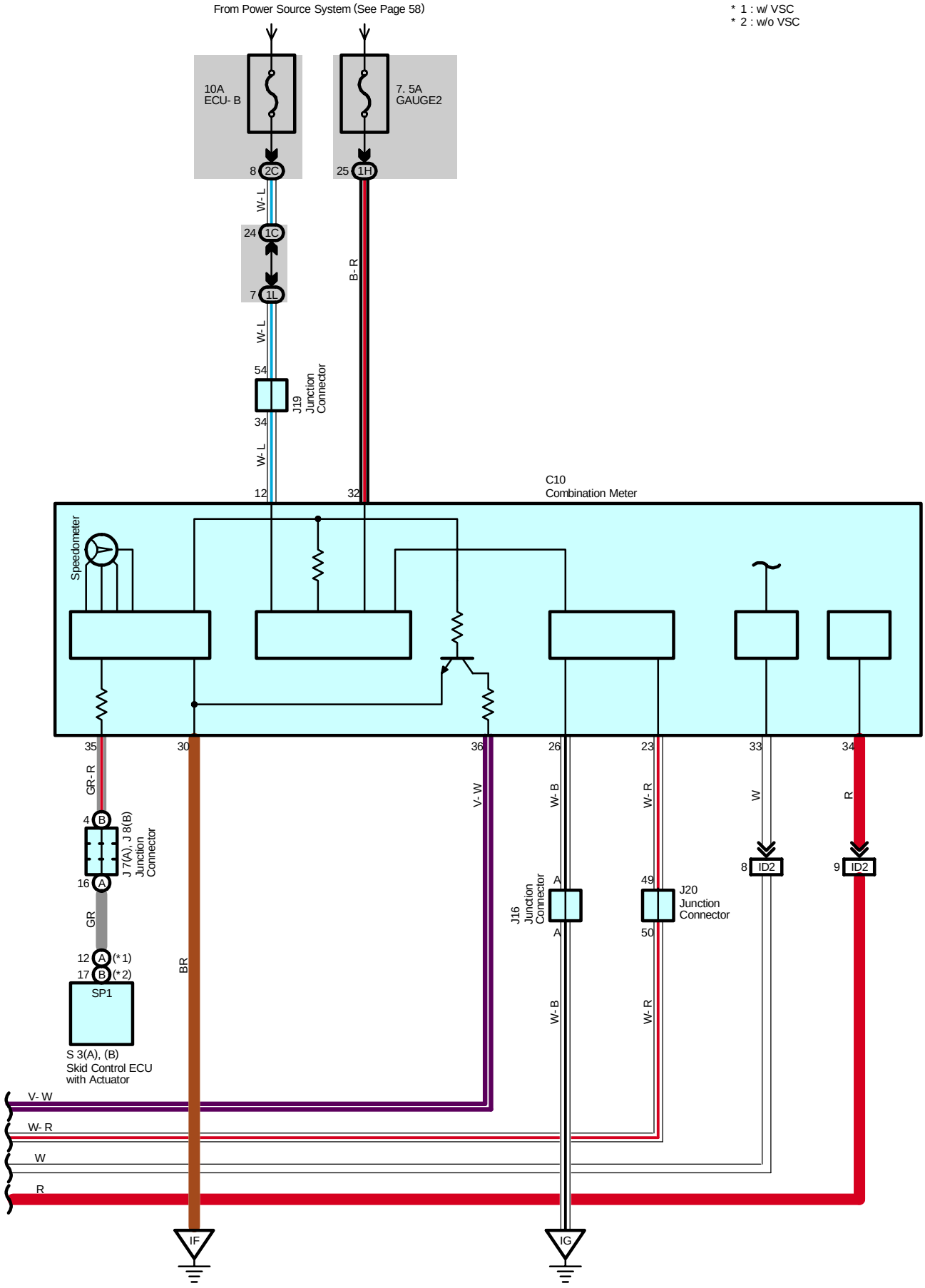
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM2	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IG	46	Right Kick Panel

Accessory Meter and Garage Door Opener




From Power Source System (See Page 58)
* 1 : w/ VSC
* 2 : w/o VSC
10A
ECU- B
7. 5A
GAUGE2
8 2C
25 1H
W- L
24 1C
7 1L
B- R
W- L
54
J19
Junction
Connector
34
W- L
12
32
C10
Combination Meter
Speedometer
35
30
36
26
23
33
34
GR- R
4 B
J 7(A), J 8(B)
Junction
Connector
16 A
GR
12 A (*1)
17 B (*2)
SP1
S 3(A), (B)
Skid Control ECU
with Actuator
BR
V- W
W- B
W- R
W
R
J16
Junction
Connector
A
A
49
J20
Junction
Connector
50
8 ID2
9 ID2
V- W
W- R
W
R
IF
IG

Accessory Meter and Garage Door Opener

Service Hints

A29 Accessory Meter

1-Ground : Always approx. 12 volts
5-Ground : Approx. 12 volts with the ignition SW at ON position
4-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A29	38	J8 B	36	R12	37
C9	35	J16	36	S3 A	33
C10	35	J19	36	S3 B	33
E5	35	J20	36		
J7 A	36	M5	39		

: Junction Block and Wire Harness Connector

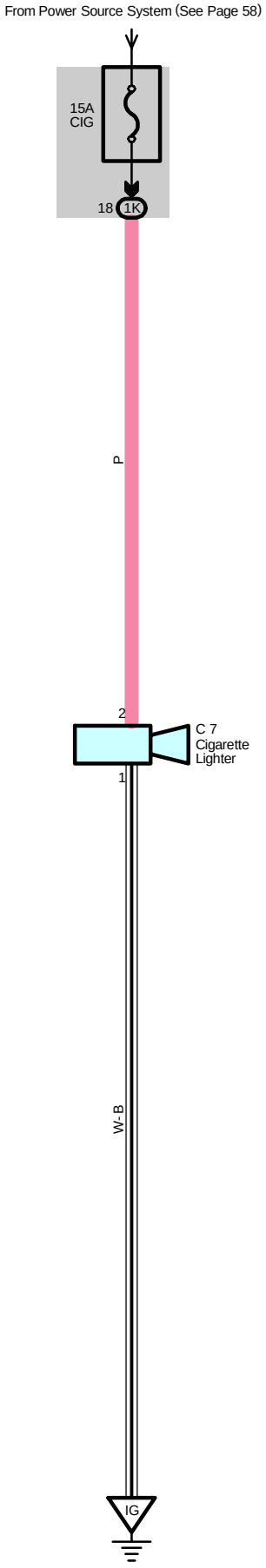
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L	27	
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
IG1	46	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Brace RH)
BA1	50	Roof No.3 Wire and Roof Wire (Front Side of the Roof)

: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel


From Power Source System (See Page 58)
15A
CIG
18
1K
P
2
C 7
Cigarette
Lighter
1
W-B
IG

Service Hints

C7 Cigarette Lighter

2-Ground : Approx. 12 volts with the ignition SW at ACC or ON position

1-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C7	35				

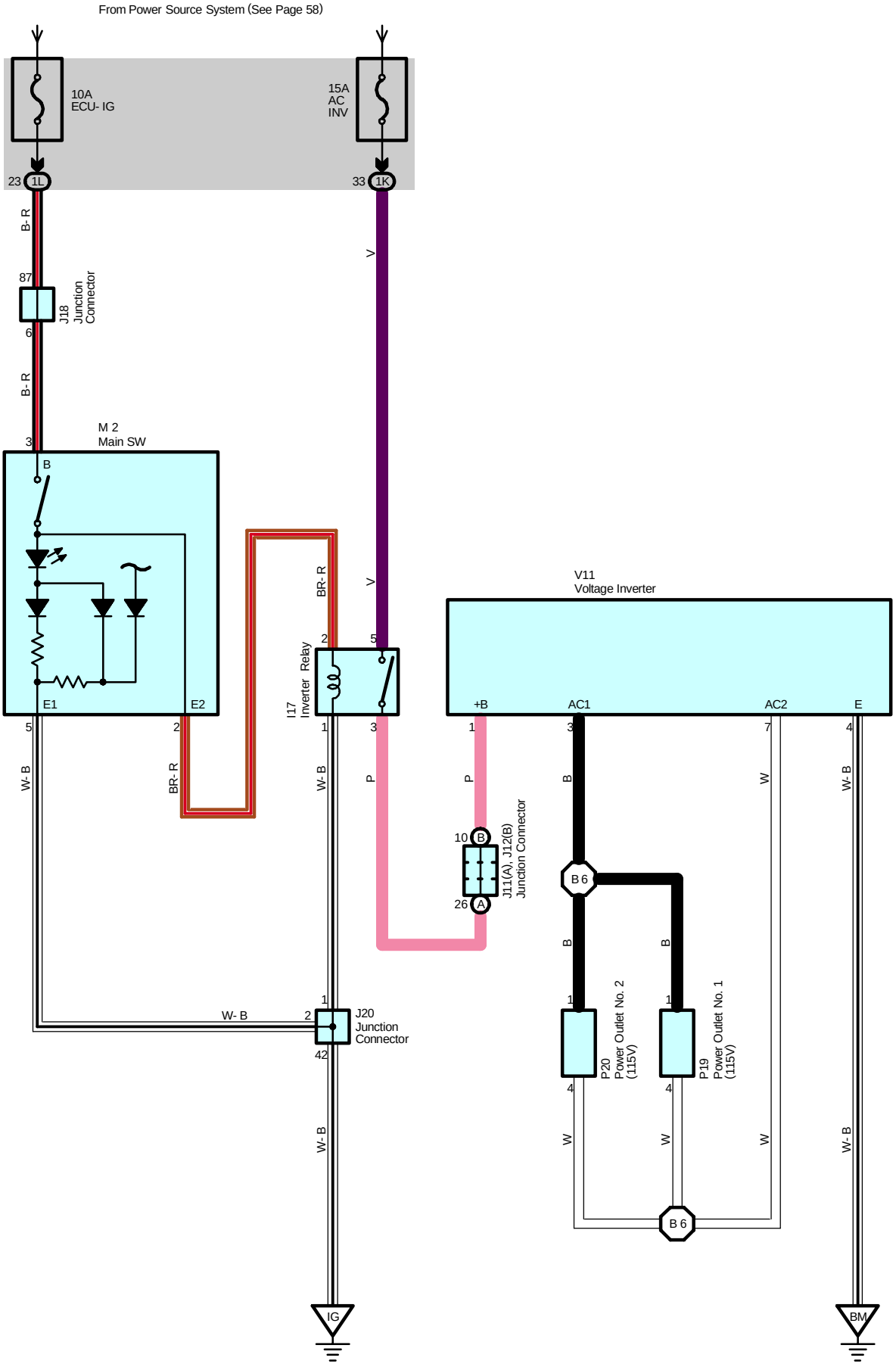
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

: Ground Points

Code	See Page	Ground Points Location
IG	46	Right Kick Panel

Power Outlet (115V)



Service Hints

I17 Inverter Relay

5-3 : Closed with ignition SW at ON position and main SW on

: Parts Location

Code		See Page	Code	See Page	Code	See Page
I17		35	J18	36	P19	39
J11	A	36	J20	36	P20	39
J12	B	36	M2	36	V11	41

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		

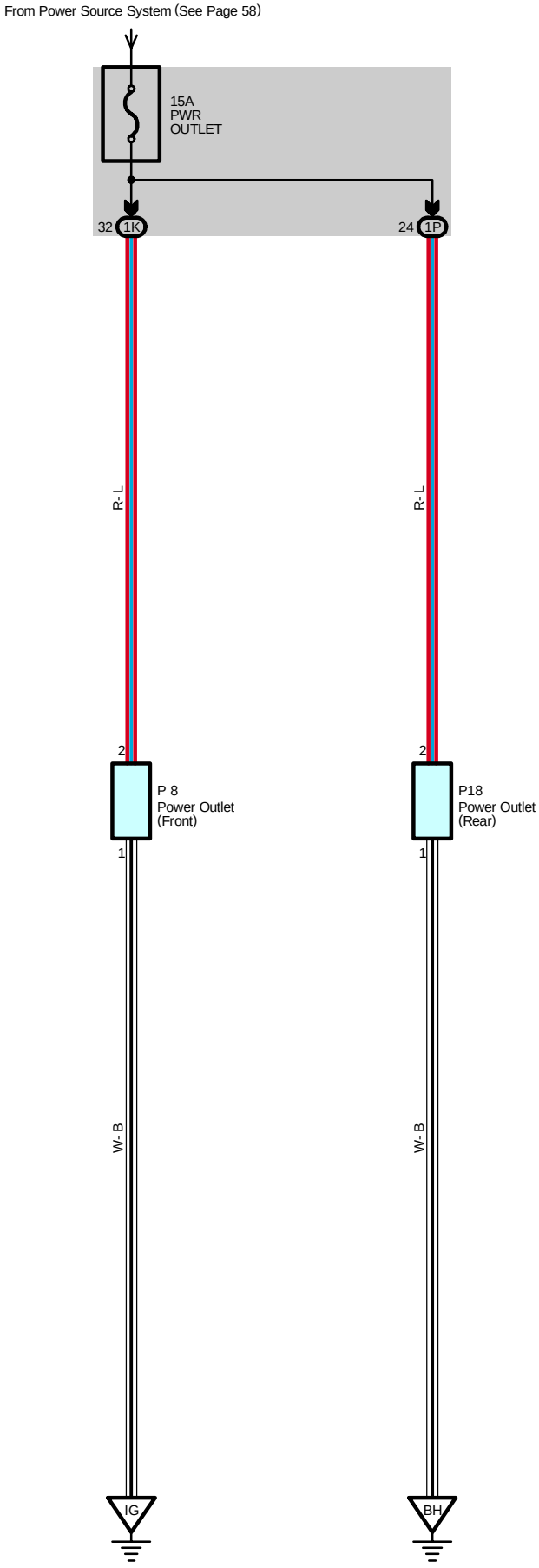
: Ground Points

Code	See Page	Ground Points Location
IG	46	Right Kick Panel
BM	50	Left Rear Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B6	52	Floor No.1 Wire			

Power Outlet (12V)



Service Hints

P8, P18 Power Outlet (Front, Rear)

2-Ground : Approx. 12 volts with the ignition SW at ACC or ON position

1-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
P8	37	P18	39		

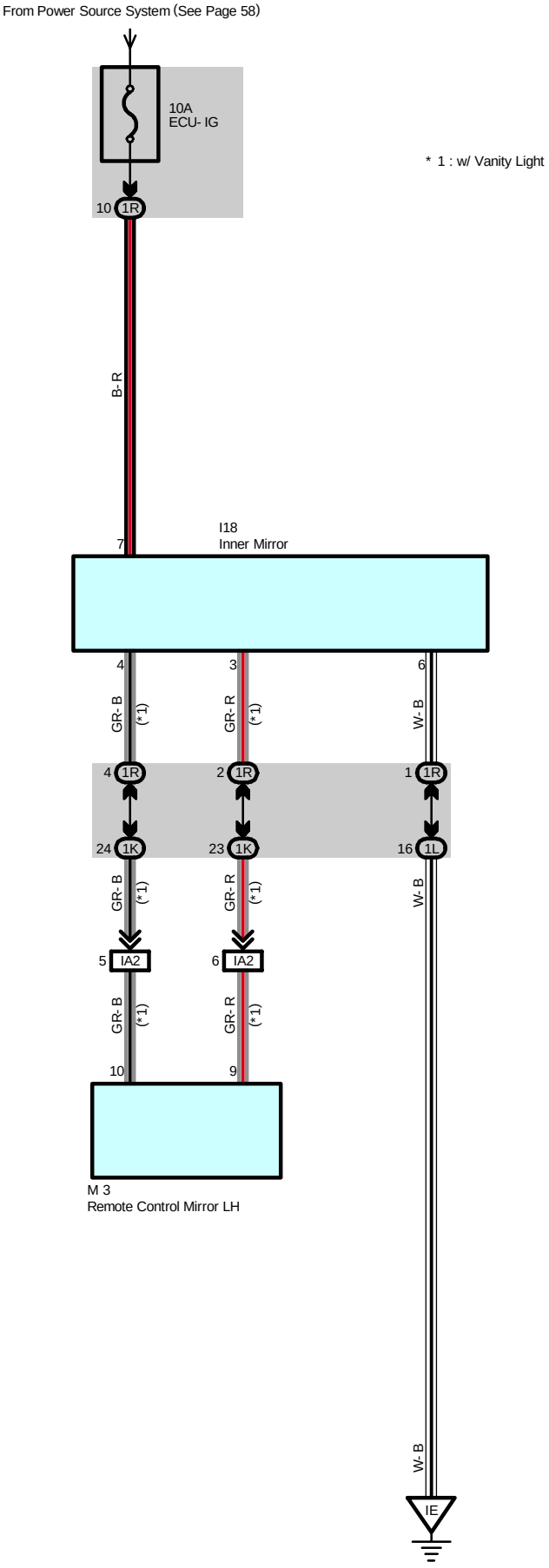
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)

: Ground Points

Code	See Page	Ground Points Location
IG	46	Right Kick Panel
BH	50	Under the Left Center Pillar

Automatic Glare-Resistant EC Mirror with Compass



Service Hints

I18 Inner Mirror

7-Ground : Approx. 12 volts with the igntion SW at ON position
6-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
I18	38	M3	39		

: Junction Block and Wire Harness Connector

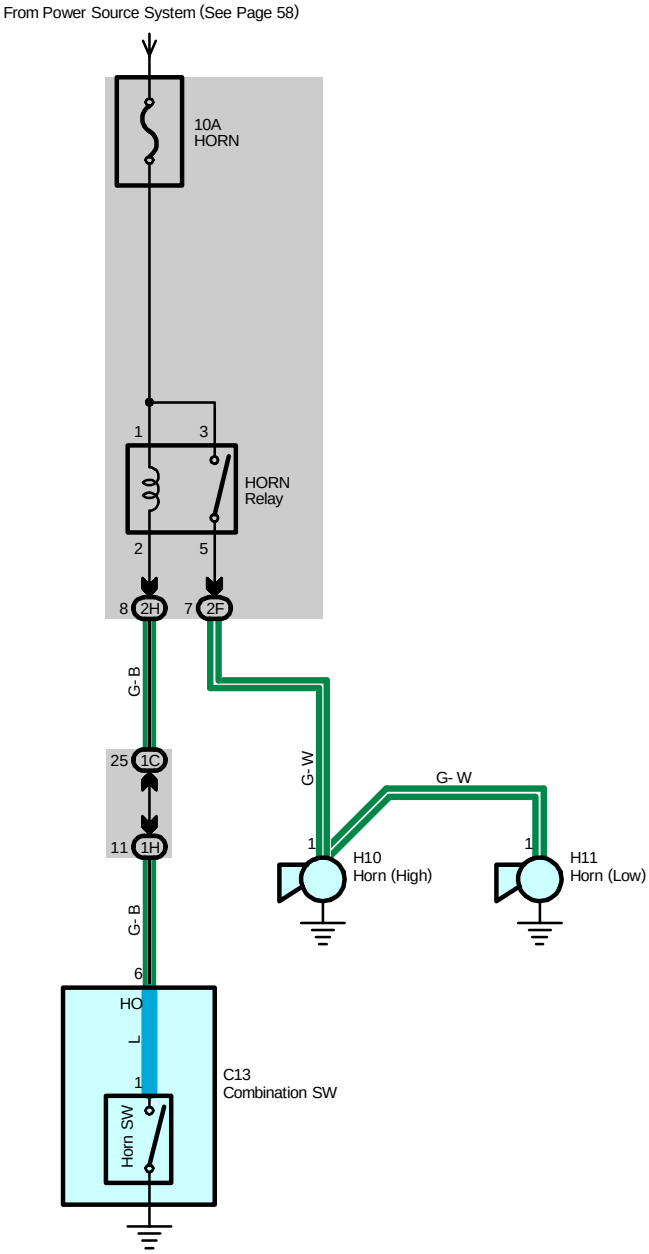
Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IE	46	Left Kick Panel


From Power Source System (See Page 58)
10A
HORN
1
3
HORN
Relay
2
5
8
2H
7
2F
G-B
25
1C
11
1H
G-B
6
HO
L
1
Horn SW
C13
Combination SW
G-W
G-W
1
H10
Horn (High)
1
H11
Horn (Low)

Service Hints

HORN Relay

5-3 : Closed with the horn SW on

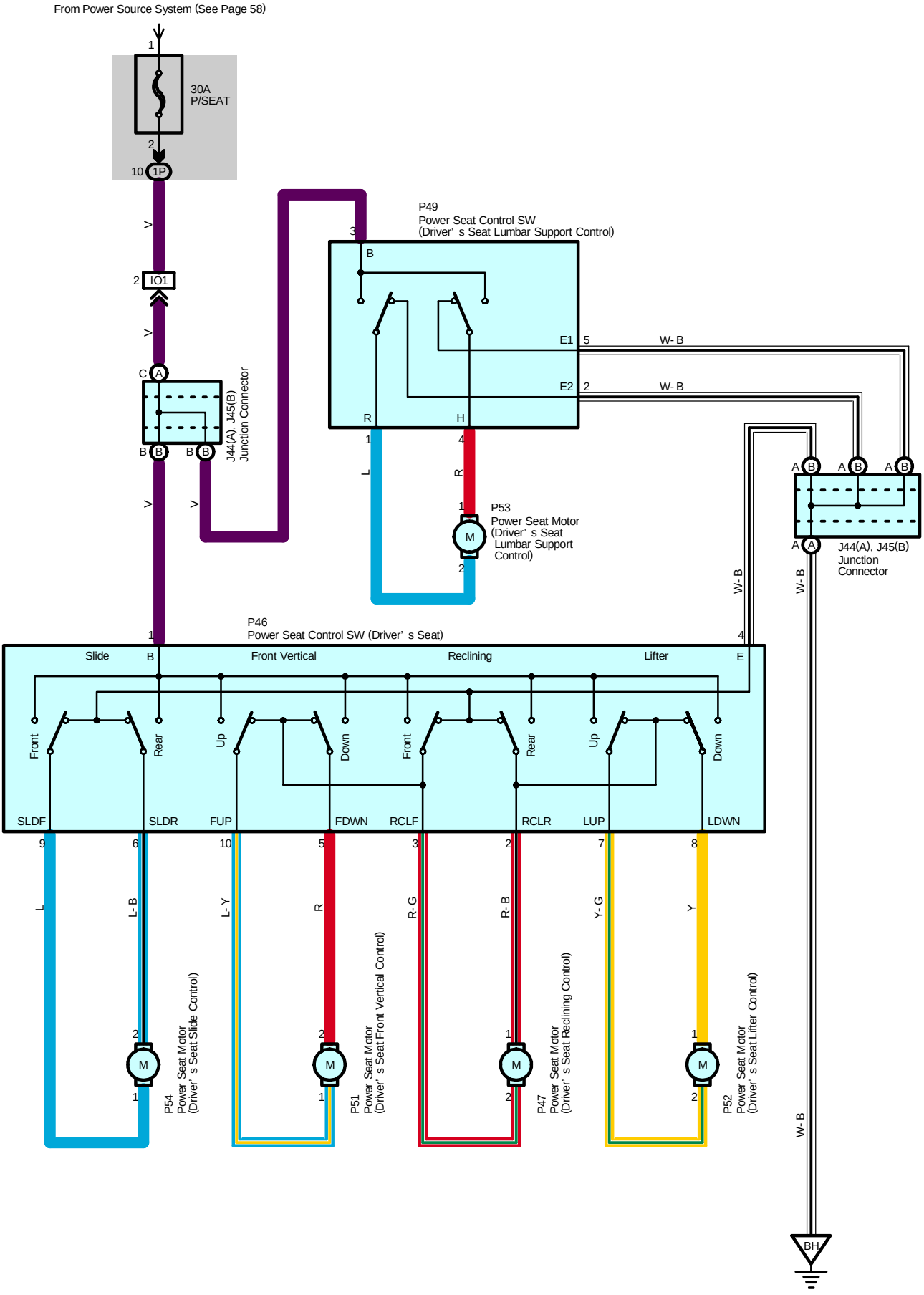
○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C13	35	H10	32	H11	32

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2F	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		

Power Seat for Driver's Seat



Service Hints

P46 Power Seat Control SW (Driver's Seat)

1-Ground : Always approx. 12 volts

4-Ground : Always continuity

: Parts Location

Code		See Page	Code	See Page	Code	See Page
J44	A	42 (*1)	P47	42 (*1)	P52	42 (*1)
J45	B	42 (*1)	P49	42 (*1)	P53	42 (*1)
P46		42 (*1)	P51	42 (*1)	P54	42 (*1)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

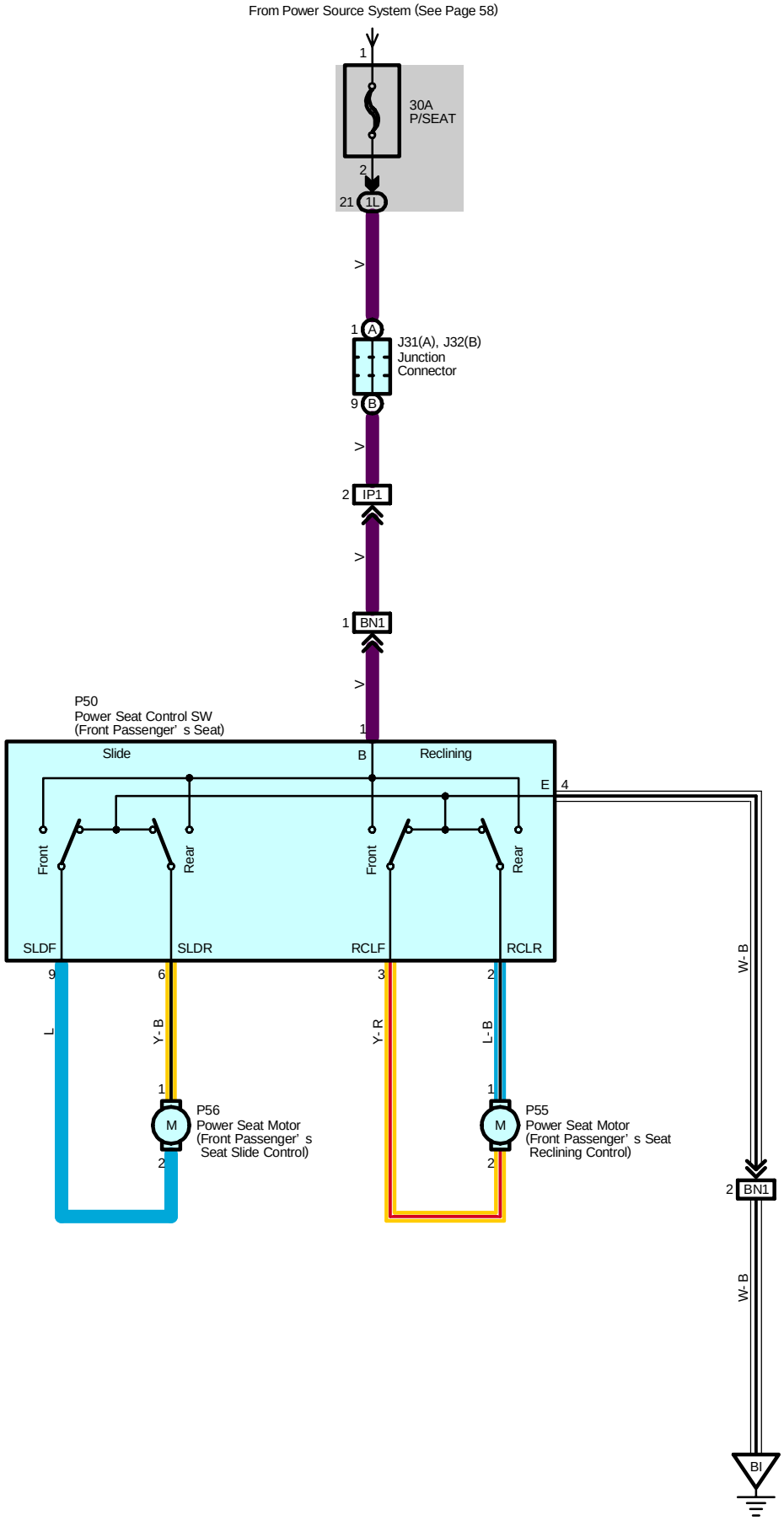
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IO1	48	Floor No.1 Wire and Floor No.1 Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
BH	50	Under the Left Center Pillar

* 1 : w/ Power Seat * 2 : w/o Power Seat

Power Seat for Front Passenger's Seat



Service Hints

P50 Power Seat Control SW (Front Passenger's Seat)

1-Ground : Always approx. 12 volts

4-Ground : Always continuity

: Parts Location

Code		See Page	Code	See Page	Code	See Page
J31	A	36	P50	42 (*1)	P56	42 (*1)
J32	B	36	P55	42 (*1)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

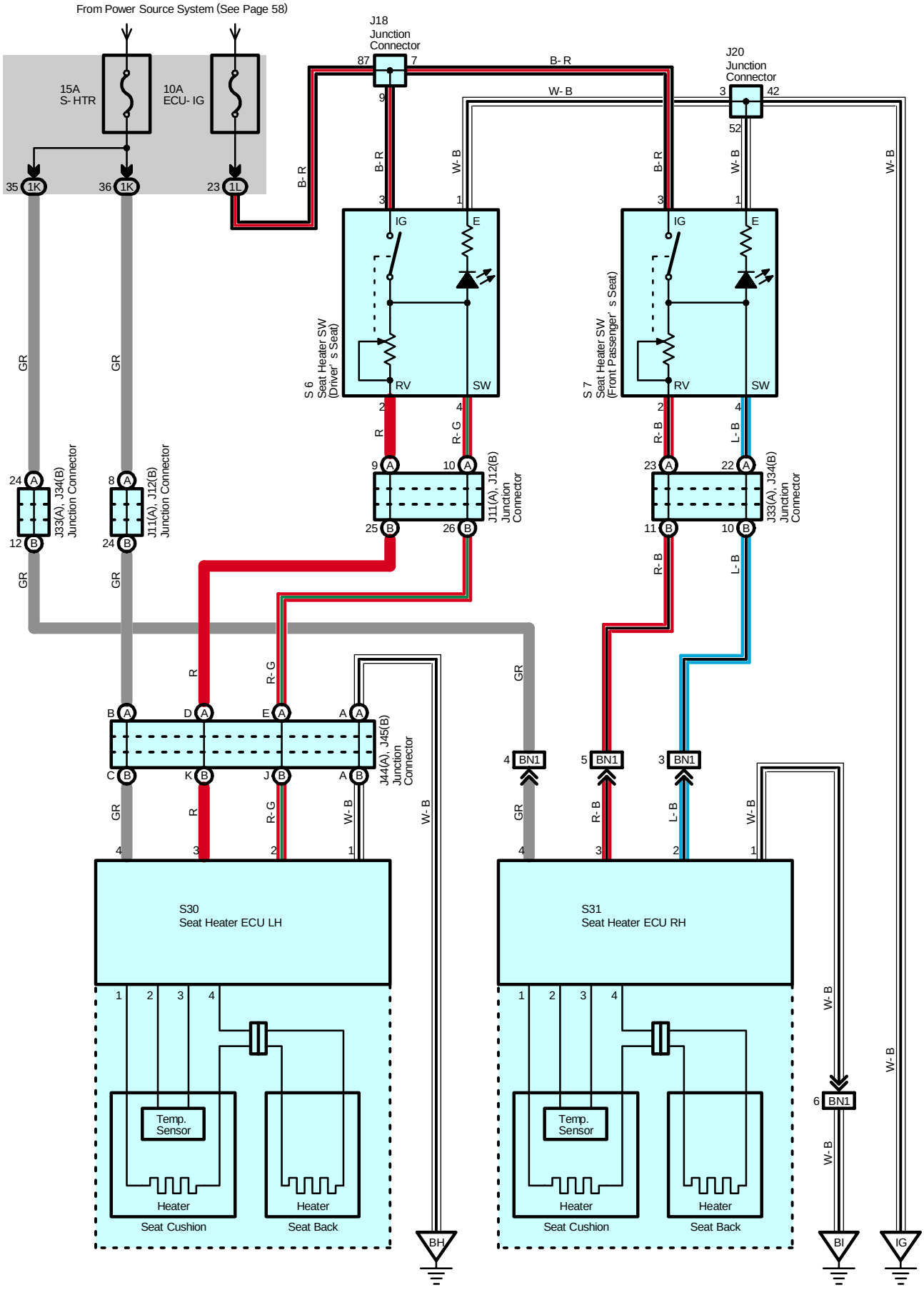
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IP1	48	Floor No.2 Wire and Floor No.2 Wire (Right Kick Panel)
BN1	54 (*1)	Floor No.2 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)

: Ground Points

Code	See Page	Ground Points Location
BI	50	Under the Right Center Pillar

* 1 : w/ Power Seat * 2 : w/o Power Seat


From Power Source System (See Page 58)
15A
S- HTR
10A
ECU- IG
J18
Junction
Connector
J20
Junction
Connector
B- R
W- B
GR
R
R- G
R- B
L- B
IG
E
RV
SW
S 6
Seat Heater SW
(Driver' s Seat)
S 7
Seat Heater SW
(Front Passenger' s Seat)
J33(A), J34(B)
Junction Connector
J11(A), J12(B)
Junction Connector
J44(A), J45(B)
Junction Connector
BN1
S30
Seat Heater ECU LH
S31
Seat Heater ECU RH
Temp.
Sensor
Heater
Seat Cushion
Seat Back
BH
BI
IG

Service Hints

S6 Seat Heater SW (Driver's Seat)

3-Ground : Approx. 12 volts with the ignition SW at ON position
1-Ground : Always continuity

S7 Seat Heater SW (Front Passenger's Seat)

3-Ground : Approx. 12 volts with the ignition SW at ON position
1-Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
J11	A	36	J33	A	36	S6	37
J12	B	36	J34	B	36	S7	37
J18		36	J44	A	42 (*1)	S30	42 (*1)
J20		36	J45	B	42 (*1)	S31	42 (*1)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		

: Connector Joining Wire Harness and Wire Harness

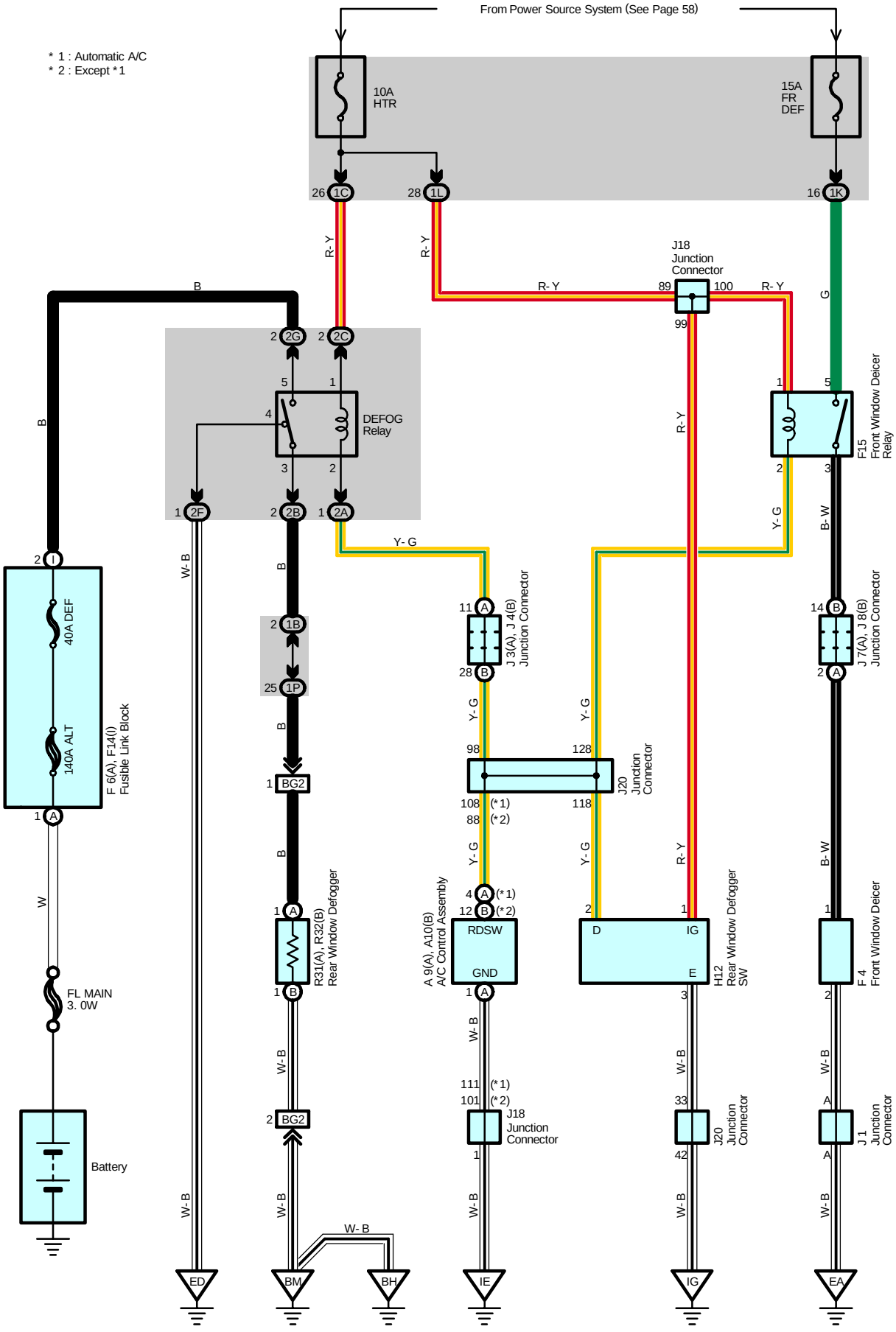
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BN1	54 (*1)	Floor No.2 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)

▽ : Ground Points

Code	See Page	Ground Points Location
IG	46	Right Kick Panel
BH	50	Under the Left Center Pillar
BI	50	Under the Right Center Pillar

* 1 : w/ Power Seat * 2 : w/o Power Seat

Front Window Deicer and Rear Window Defogger



Service Hints

H12 Rear Window Defogger SW

1, 2-Ground : Approx. 12 volts with the ignition SW at ON position
3-Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A9	A	34	H12		35	J18		36
A10	B	34	J1		33	J20		36
F4		32	J3	A	36	R31	A	40
F6	A	32	J4	B	36	R32	B	40
F14	I	32	J7	A	36			
F15		35	J8	B	36			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1K	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
1P	27	Floor No.1 Wire and Driver Side J/B (Lower Finish Panel)
2A	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		
2F		
2G		

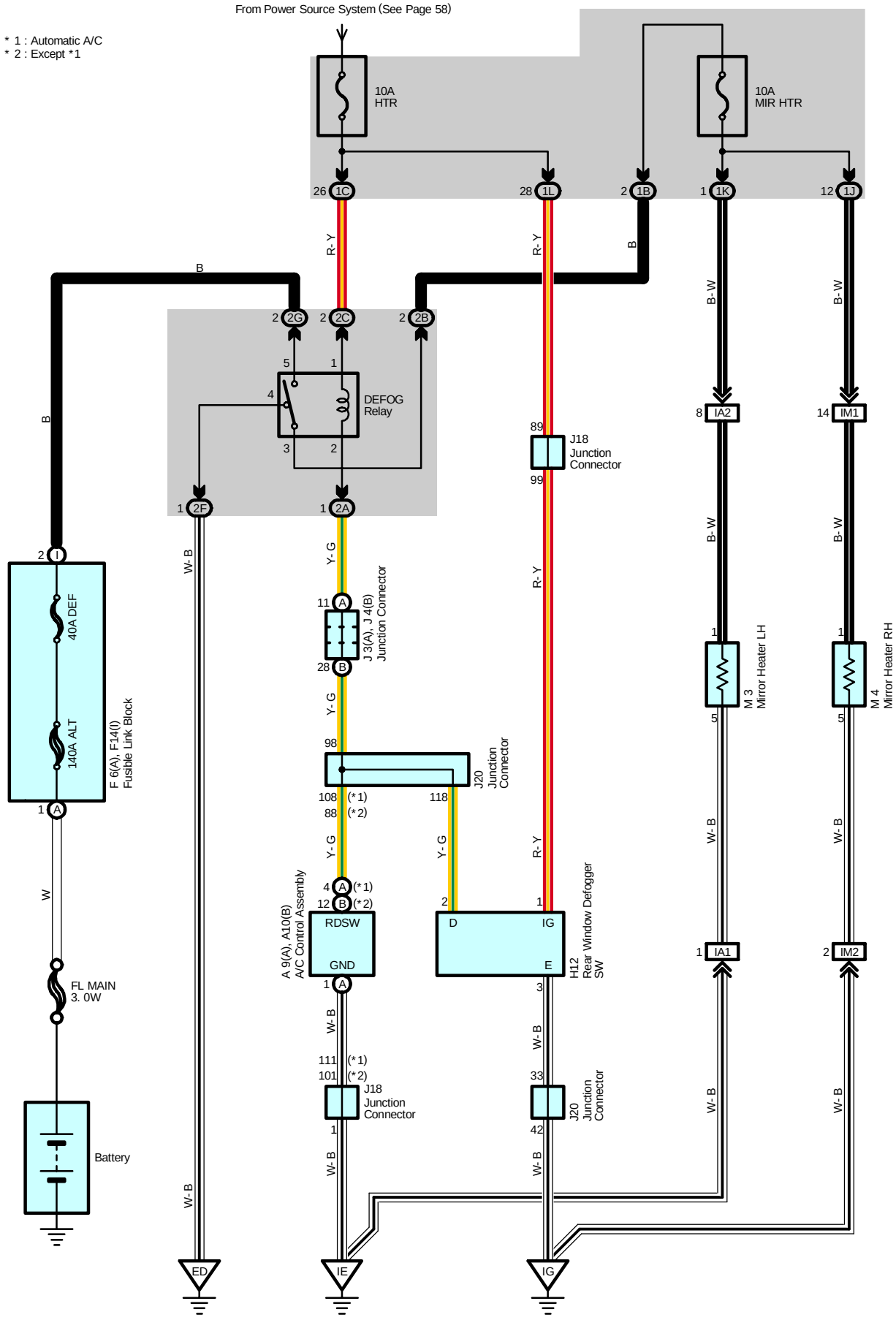
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BG2	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
IG	46	Right Kick Panel
BH	50	Under the Left Center Pillar
BM	50	Left Rear Quarter Panel

Mirror Heater



Service Hints

M3, M4 Mirror Heater LH, RH

1-Ground : Approx. 12 volts with the ignition SW on and the rear window defogger SW on

5-Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code	See Page
A9	A	34	H12		35	J20	36
A10	B	34	J3	A	36	M3	39
F6	A	32	J4	B	36	M4	39
F14	I	32	J18		36		

: Junction Block and Wire Harness Connector

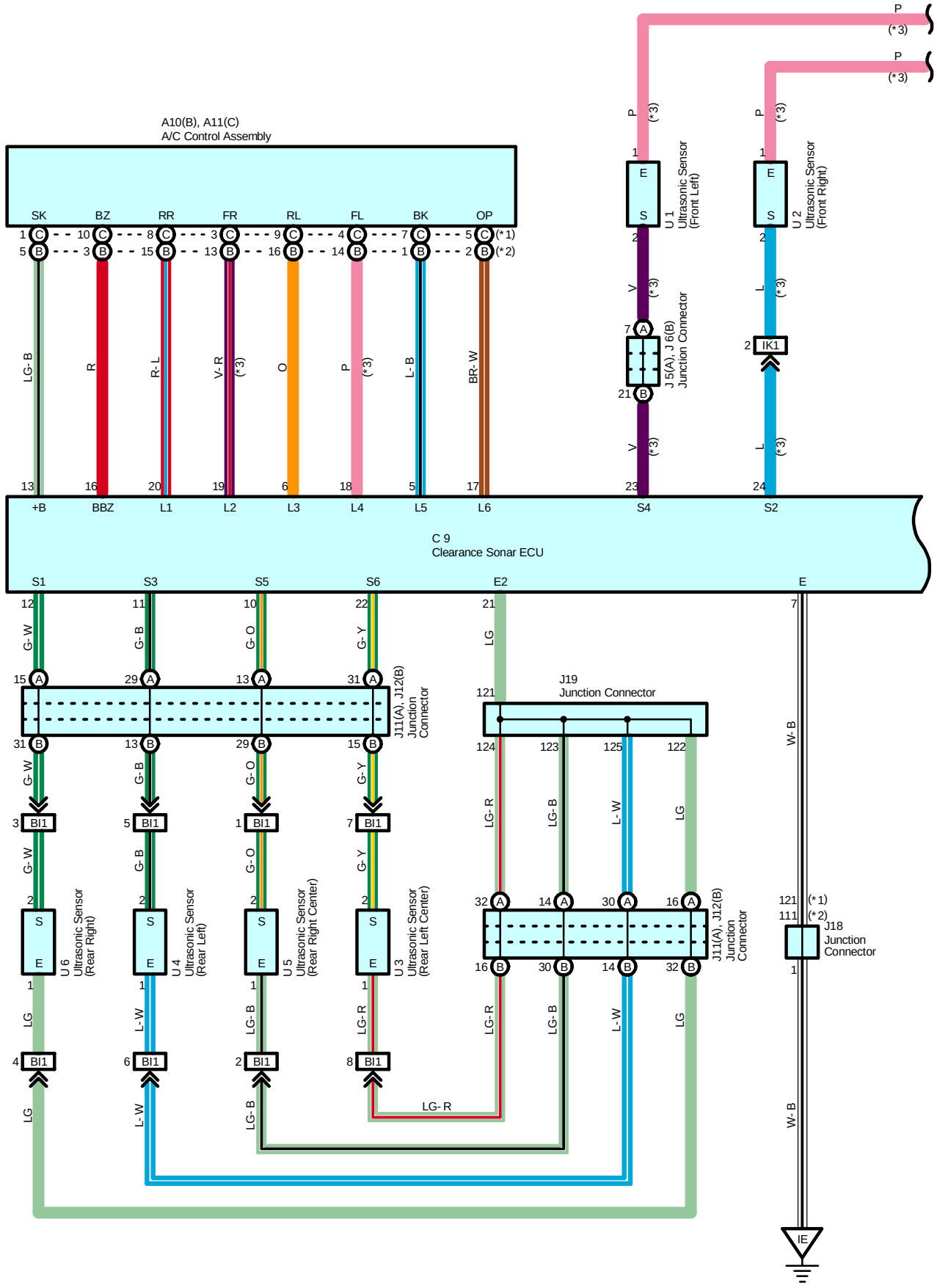
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1J	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K		
1L		
2A	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		
2F		
2G		

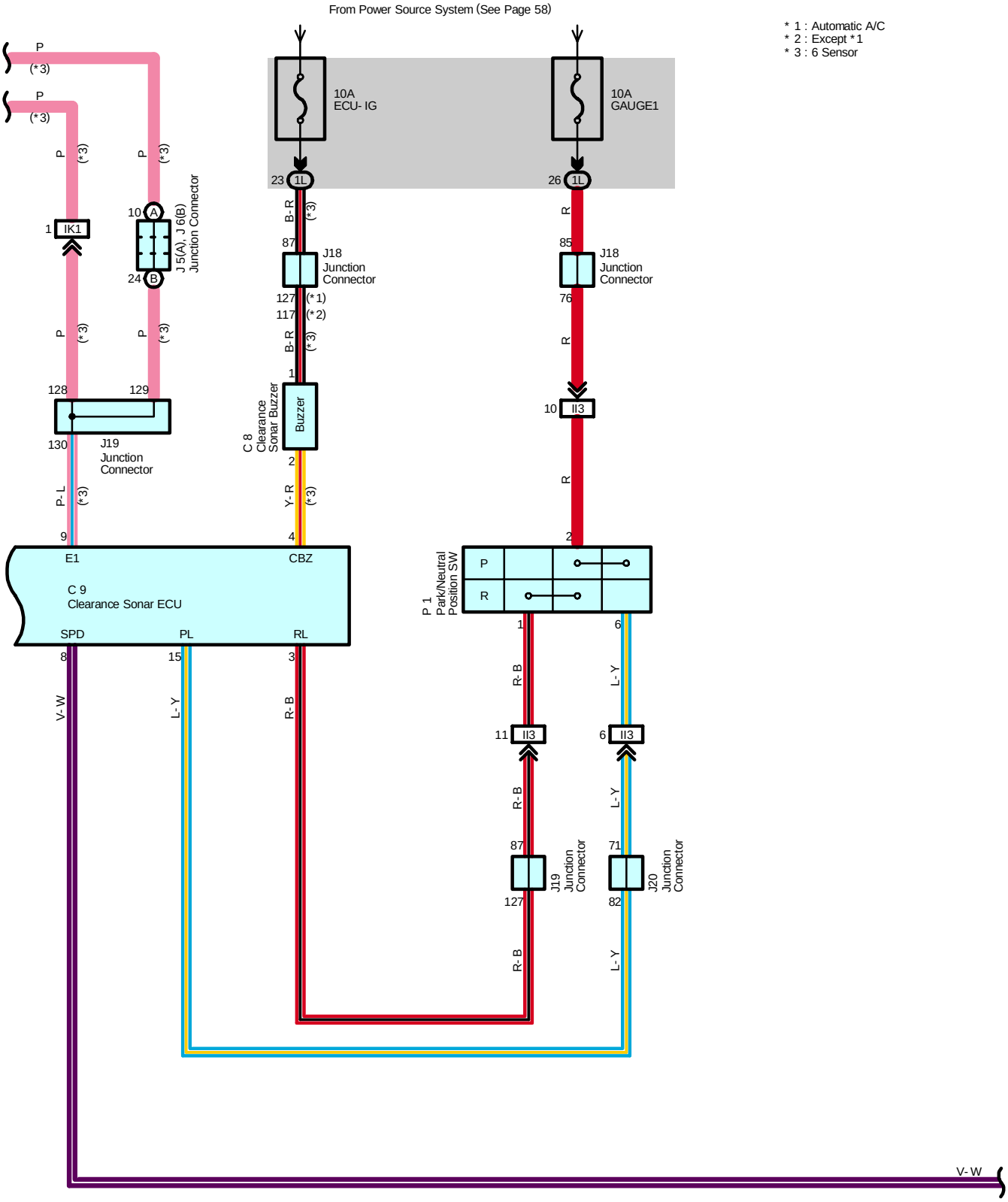
: Connector Joining Wire Harness and Wire Harness

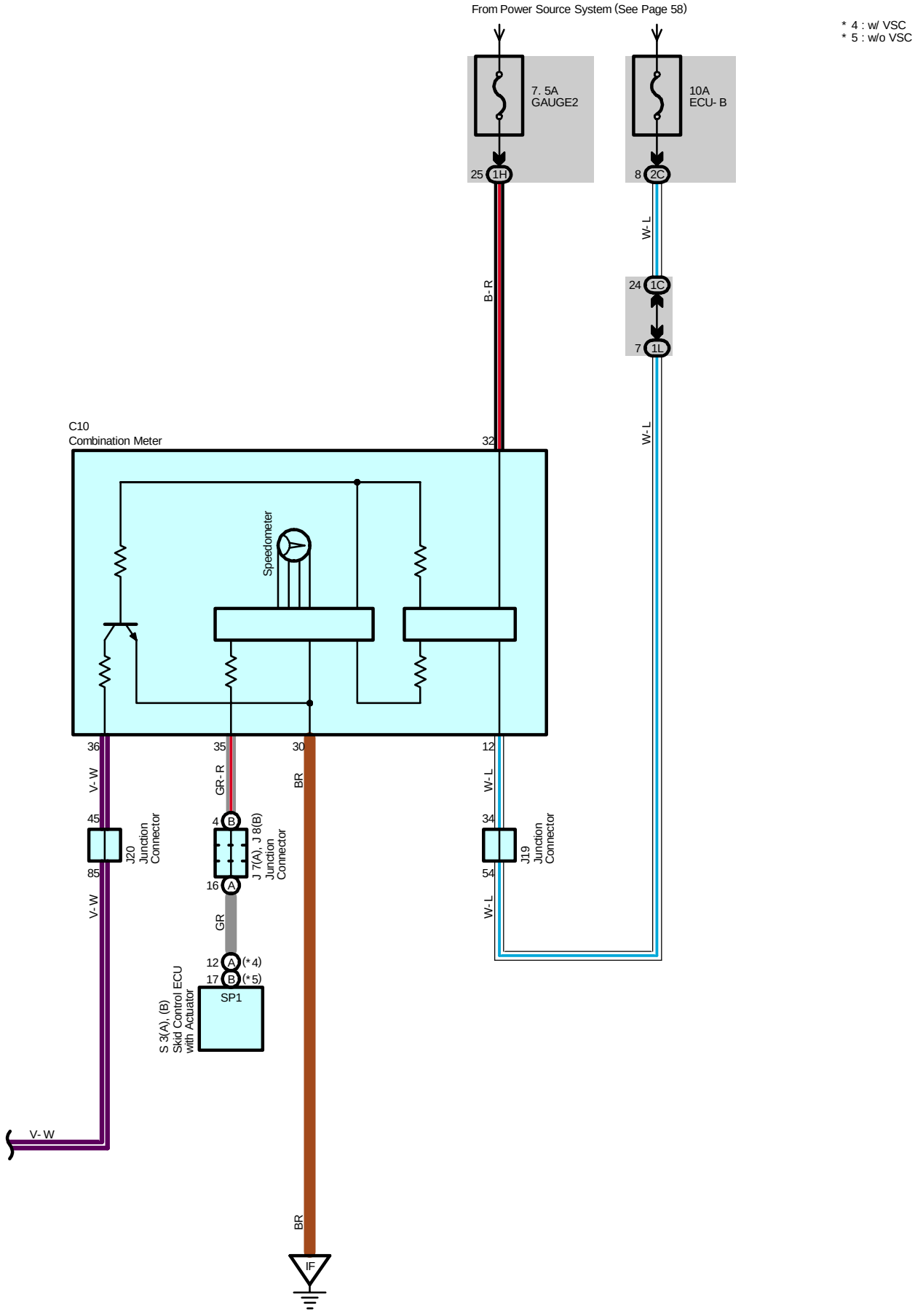
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2		
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2		

: Ground Points

Code	See Page	Ground Points Location
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
IG	46	Right Kick Panel


A10(B), A11(C)
A/C Control Assembly
SK
BZ
RR
FR
RL
FL
BK
OP
LG- B
R
R- L
V- R
O
P
L- B
BR- W
+B
BBZ
L1
L2
L3
L4
L5
L6
P
(*3)
U 1
Ultrasonic Sensor
(Front Left)
U 2
Ultrasonic Sensor
(Front Right)
V
L
J 5(A), J 6(B)
Junction Connector
IK1
S4
S2
C 9
Clearance Sonar ECU
S1
S3
S5
S6
E2
E
G- W
G- B
G- O
G- Y
LG
J11(A), J12(B)
Junction
Connector
J19
Junction Connector
LG- R
LG- B
L- W
W- B
BI1
U 6
Ultrasonic Sensor
(Rear Right)
U 4
Ultrasonic Sensor
(Rear Left)
U 5
Ultrasonic Sensor
(Rear Right Center)
U 3
Ultrasonic Sensor
(Rear Left Center)
(*1)
(*2)
J18
Junction
Connector
IE


From Power Source System (See Page 58)
* 1 : Automatic A/C
* 2 : Except *1
* 3 : 6 Sensor
10A
ECU- IG
10A
GAUGE1
J18
Junction
Connector
J19
Junction
Connector
J 5(A), J 6(B)
Junction Connector
IK1
II3
Buzzer
C 8
Clearance
Sonar Buzzer
C 9
Clearance Sonar ECU
E1
CBZ
SPD
PL
RL
P 1
Park/Neutral
Position SW
J20
Junction
Connector
V- W


From Power Source System (See Page 58)
* 4 : w/ VSC
* 5 : w/o VSC
7. 5A
GAUGE2
10A
ECU- B
25 1H
8 2C
W- L
B- R
24 1C
7 1L
W- L
C10
Combination Meter
32
Speedometer
36
35
30
12
V- W
GR- R
BR
W- L
45
4 B
34
J20
Junction
Connector
J 7(A), J 8(B)
Junction
Connector
J19
Junction
Connector
85
16 A
54
V- W
GR
W- L
12 A (*4)
17 B (*5)
SP1
S 3(A), (B)
Skid Control ECU
with Actuator
V- W
BR
IF

System Outline

TOYOTA parking assist (Clearance sonar) system uses an ultrasonic sensor equipped with an indicator and beeping alarm to detect obstacles at the corners in front of the vehicle (6 sensor type only) and obstacles at the rear of the vehicle, and provides information to the driver regarding the distance between the sensors and the obstacles and the position of the obstacles.

Service Hints

C9 Clearance Sonar ECU

15-Ground : Approx. 12 volts with the ignition SW at ON position and shift lever at P position
3-Ground : Approx. 12 volts with the ignition SW at ON position and shift lever at R position
7-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A10 B	34	J8 B	36	S3 B	33
A11 C	34	J11 A	36	U1	33
C8	35	J12 B	36	U2	33
C9	35	J18	36	U3	41
C10	35	J19	36	U4	41
J5 A	36	J20	36	U5	41
J6 B	36	P1	33	U6	41
J7 A	36	S3 A	33		

: Junction Block and Wire Harness Connector

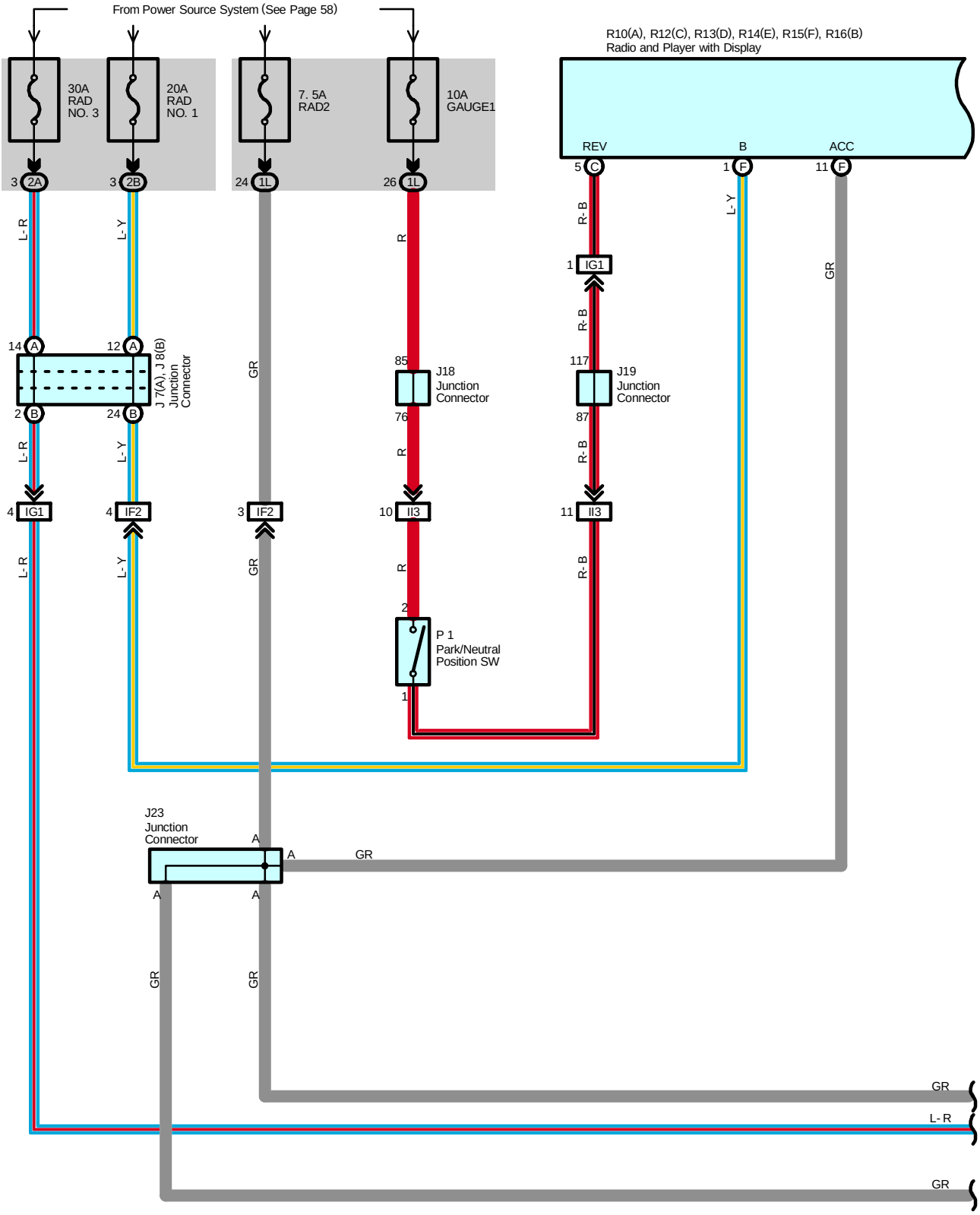
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L	27	
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

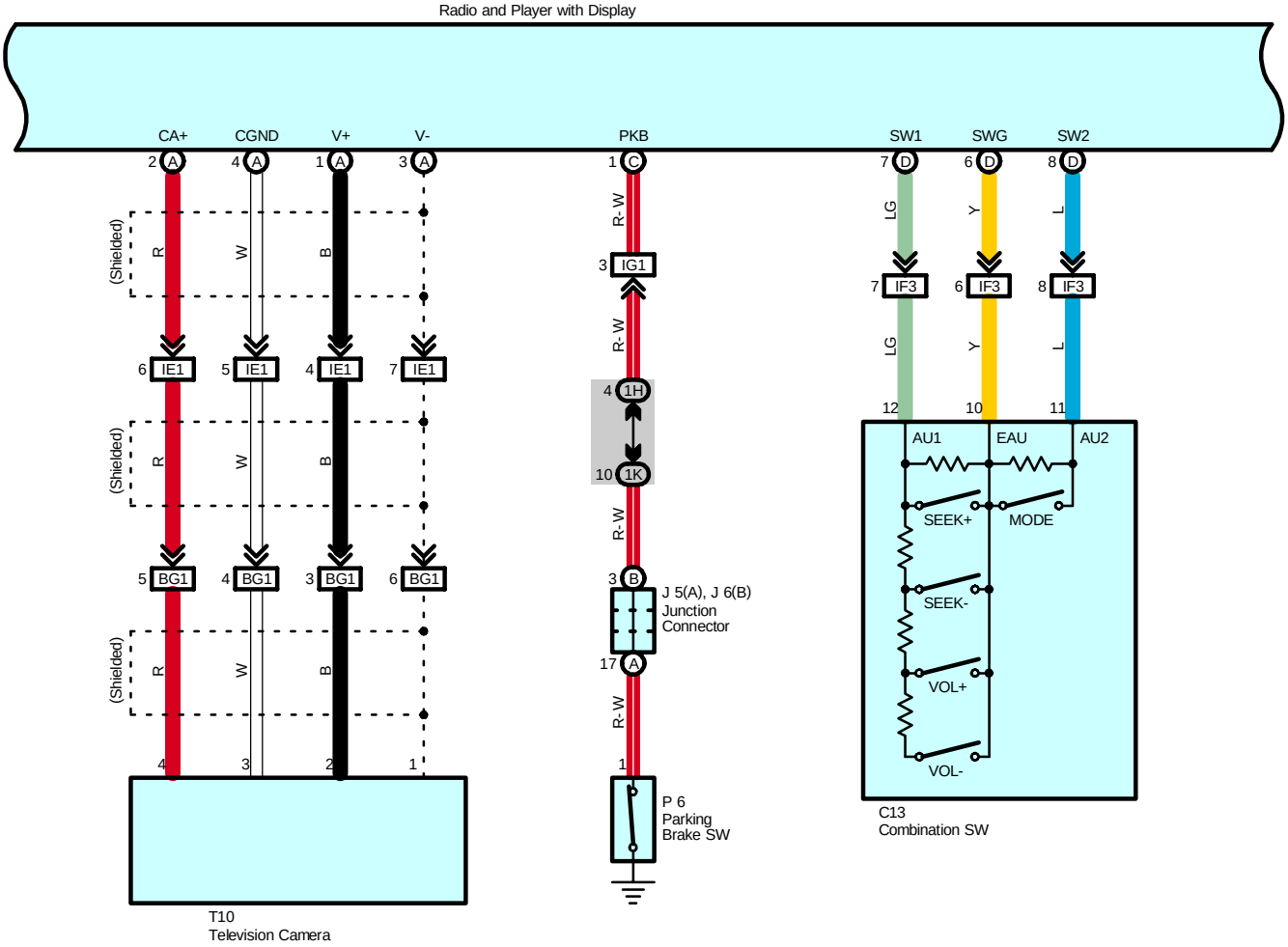
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IK1	48	Engine Room Main Wire and Instrument Panel Wire (Right Kick Panel)
BI1	52	Floor No.3 Wire and Floor No.1 Wire (Lower Back Panel)

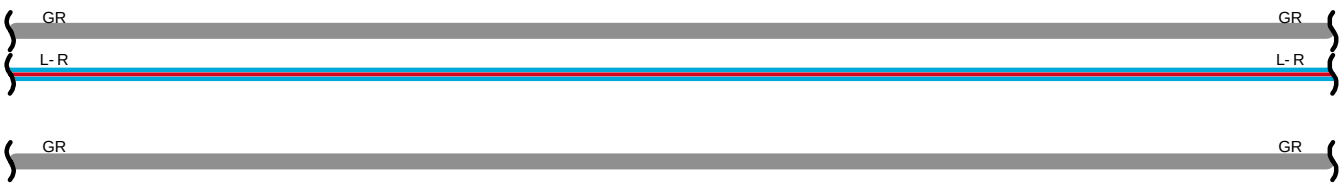
: Ground Points

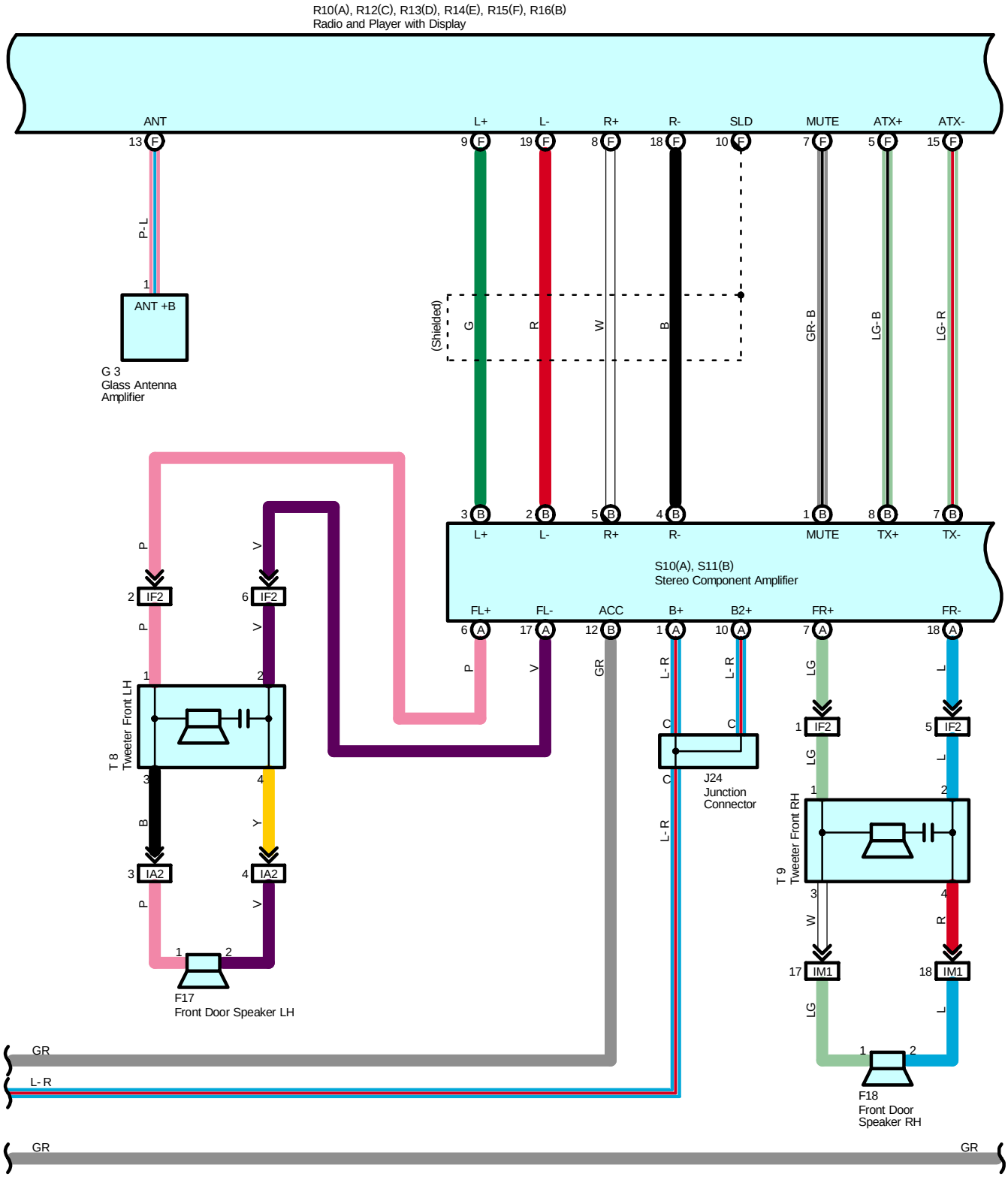
Code	See Page	Ground Points Location
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH

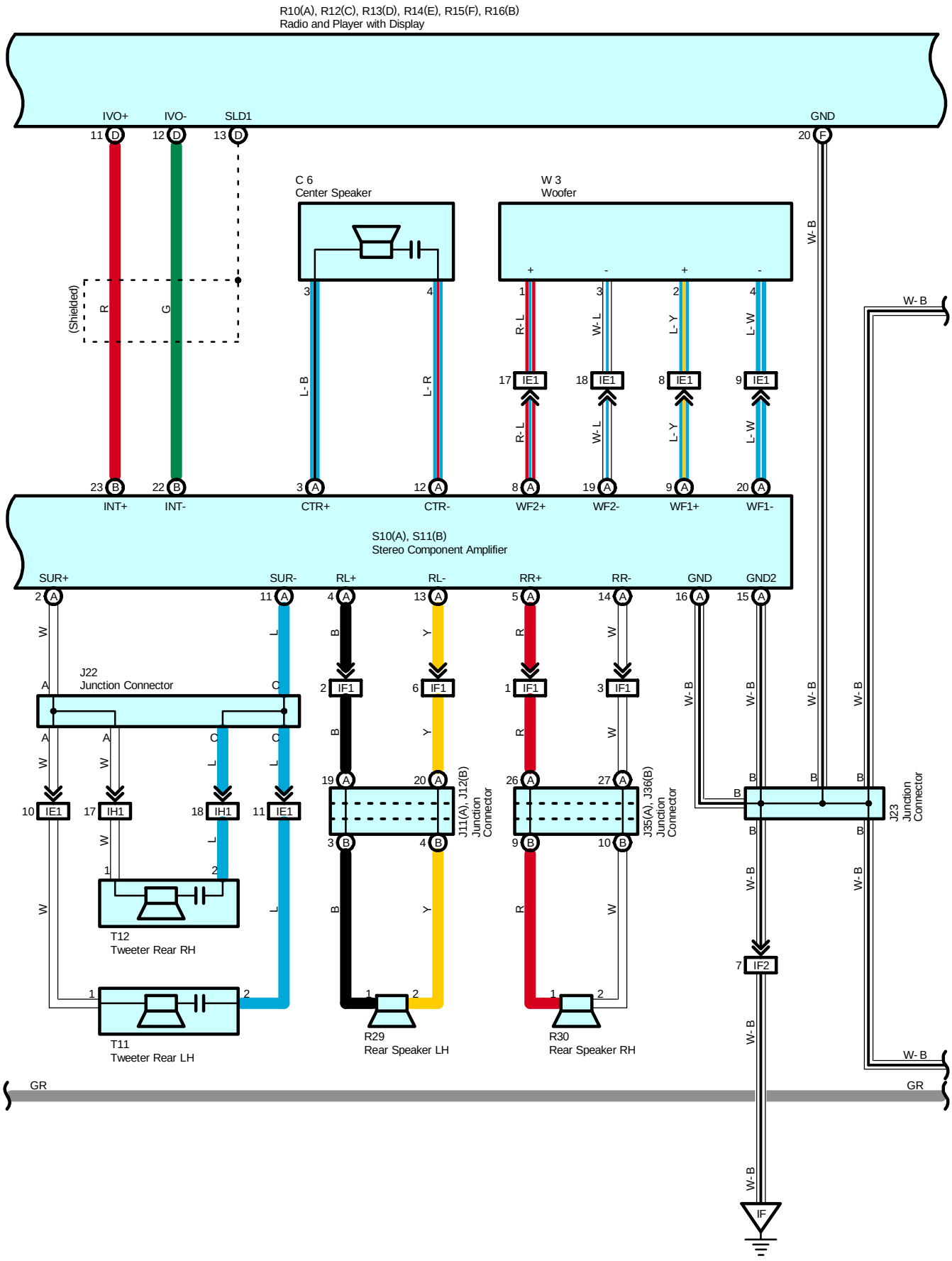

From Power Source System (See Page 58)
30A RAD NO. 3
20A RAD NO. 1
7. 5A RAD2
10A GAUGE1
R10(A), R12(C), R13(D), R14(E), R15(F), R16(B)
Radio and Player with Display
REV
B
ACC
3 2A
3 2B
24 1L
26 1L
5 C
1 F
11 F
L-R
L-Y
R
R-B
L-Y
GR
1 IG1
14 A
12 A
J 7(A), J 8(B) Junction Connector
2 B
24 B
85
J18 Junction Connector
76
117
J19 Junction Connector
87
4 IG1
4 IF2
3 IF2
10 II3
11 II3
2
P 1 Park/Neutral Position SW
1
J23 Junction Connector
A
GR

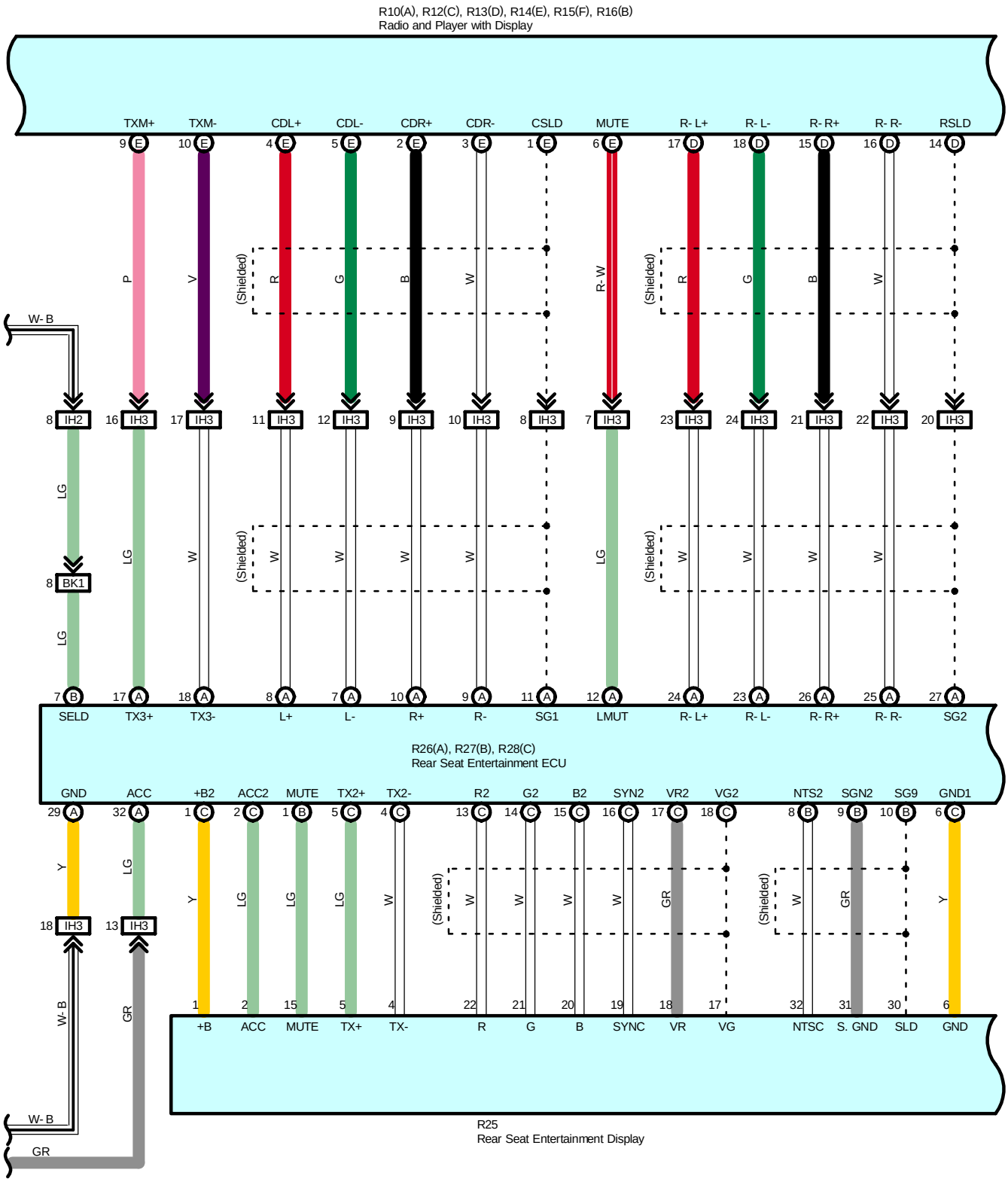
R10(A), R12(C), R13(D), R14(E), R15(F), R16(B)
Radio and Player with Display

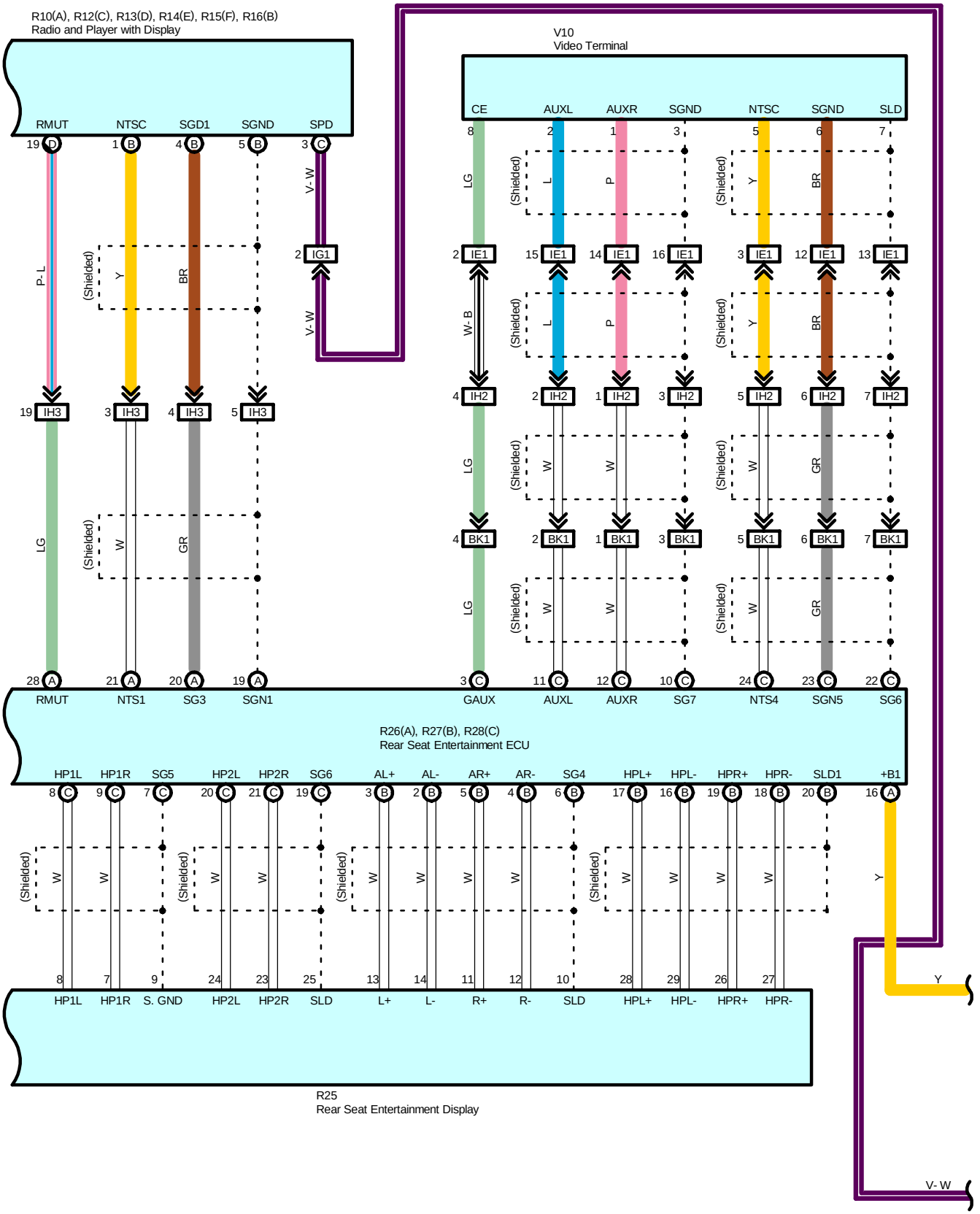


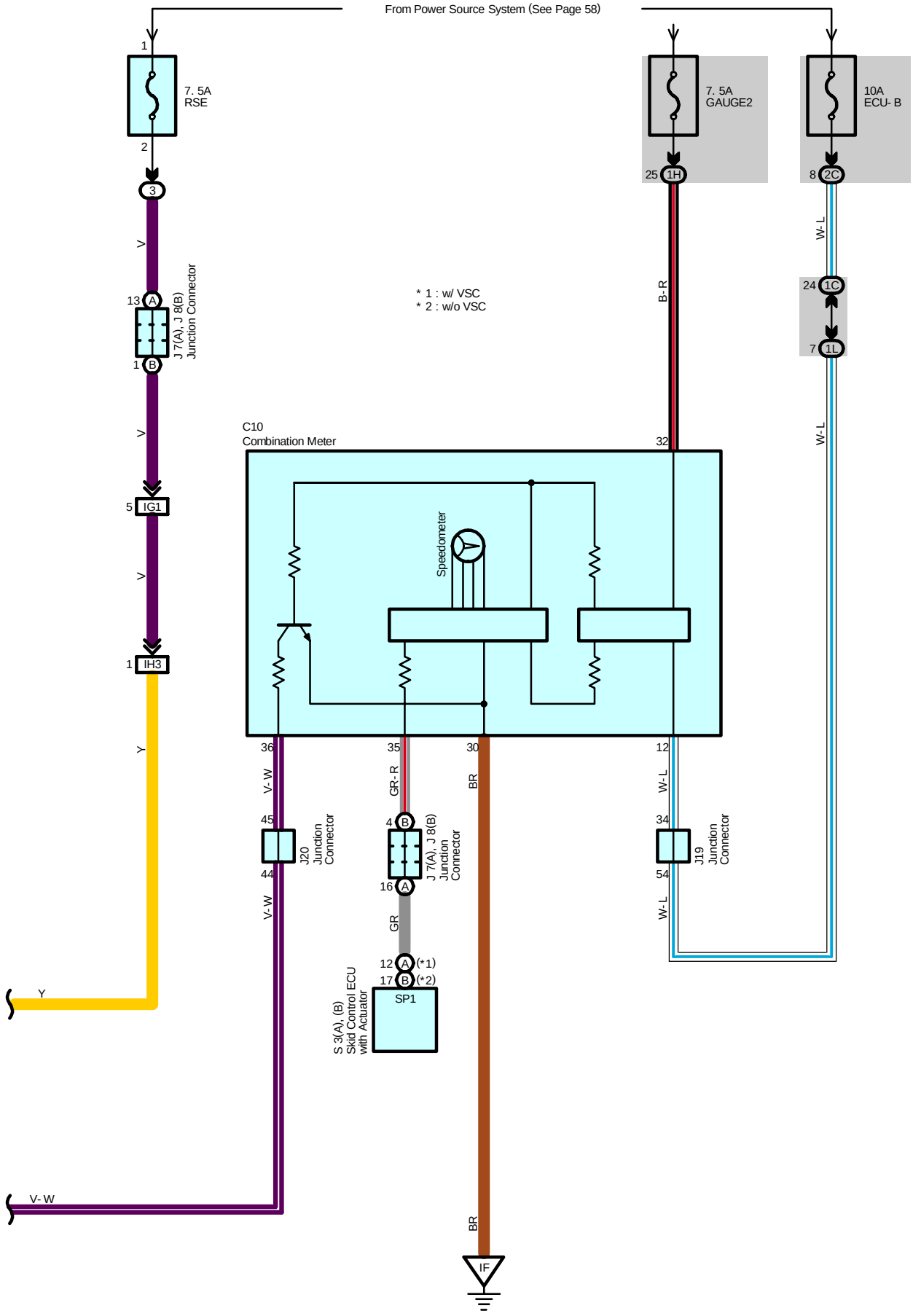



R10(A), R12(C), R13(D), R14(E), R15(F), R16(B)
Radio and Player with Display
ANT
L+
L-
R+
R-
SLD
MUTE
ATX+
ATX-
13 F
9 F
19 F
8 F
18 F
10 F
7 F
5 F
15 F
P-L
1
ANT +B
G 3
Glass Antenna
Amplifier
(Shielded)
G
R
W
B
GR-B
LG-B
LG-R
3 B
2 B
5 B
4 B
1 B
8 B
7 B
L+
L-
R+
R-
MUTE
TX+
TX-
S10(A), S11(B)
Stereo Component Amplifier
FL+
FL-
ACC
B+
B2+
FR+
FR-
6 A
17 A
12 B
1 A
10 A
7 A
18 A
P
V
GR
L-R
L-R
LG
L
2 IF2
6 IF2
1 IF2
5 IF2
T 8
Tweeter Front LH
T 9
Tweeter Front RH
3 IA2
4 IA2
17 IM1
18 IM1
J24
Junction
Connector
F17
Front Door Speaker LH
F18
Front Door
Speaker RH
GR
L-R
GR
GR


R10(A), R12(C), R13(D), R14(E), R15(F), R16(B)
Radio and Player with Display
IVO+
IVO-
SLD1
GND
(Shielded)
C 6
Center Speaker
W 3
Woofer
INT+
INT-
CTR+
CTR-
WF2+
WF2-
WF1+
WF1-
S10(A), S11(B)
Stereo Component Amplifier
SUR+
SUR-
RL+
RL-
RR+
RR-
GND
GND2
J22
Junction Connector
T12
Tweeter Rear RH
T11
Tweeter Rear LH
R29
Rear Speaker LH
R30
Rear Speaker RH
J11(A), J12(B)
Junction
Connector
J35(A), J36(B)
Junction
Connector
J23
Junction
Connector
GR
IF


R10(A), R12(C), R13(D), R14(E), R15(F), R16(B)
Radio and Player with Display
TXM+
TXM-
CDL+
CDL-
CDR+
CDR-
CSLD
MUTE
R- L+
R- L-
R- R+
R- R-
RSLD
(Shielded)
W- B
IH2
IH3
BK1
SELD
TX3+
TX3-
L+
L-
R+
R-
SG1
LMUT
R- L+
R- L-
R- R+
R- R-
SG2
R26(A), R27(B), R28(C)
Rear Seat Entertainment ECU
GND
ACC
+B2
ACC2
MUTE
TX2+
TX2-
R2
G2
B2
SYN2
VR2
VG2
NTS2
SGN2
SG9
GND1
+B
ACC
MUTE
TX+
TX-
R
G
B
SYNC
VR
VG
NTSC
S. GND
SLD
GND
R25
Rear Seat Entertainment Display
GR


R10(A), R12(C), R13(D), R14(E), R15(F), R16(B)
Radio and Player with Display
RMUT
NTSC
SGD1
SGND
SPD
V10
Video Terminal
CE
AUXL
AUXR
SGND
NTSC
SGND
SLD
IG1
IE1
IH2
IH3
BK1
RMUT
NTS1
SG3
SGN1
GAUX
AUXL
AUXR
SG7
NTS4
SGN5
SG6
R26(A), R27(B), R28(C)
Rear Seat Entertainment ECU
HP1L
HP1R
SG5
HP2L
HP2R
SG6
AL+
AL-
AR+
AR-
SG4
HPL+
HPL-
HPR+
HPR-
SLD1
+B1
HP1L
HP1R
S. GND
HP2L
HP2R
SLD
L+
L-
R+
R-
SLD
HPL+
HPL-
HPR+
HPR-
R25
Rear Seat Entertainment Display
(Shielded)
P- L
LG
V- W
W- B
L
P
Y
BR
W
GR


From Power Source System (See Page 58)
7. 5A
RSE
7. 5A
GAUGE2
10A
ECU- B
* 1 : w/ VSC
* 2 : w/o VSC
J 7(A), J 8(B)
Junction Connector
C10
Combination Meter
Speedometer
IG1
IH3
J20
Junction
Connector
J 7(A), J 8(B)
Junction
Connector
J19
Junction
Connector
S 3(A), (B)
Skid Control ECU
with Actuator
SP1
IF
V
Y
V- W
GR- R
GR
B- R
W- L
BR

Service Hints

R15 (F) Radio and Player with Display

(F) 1-Ground : Always approx. 12 volts
(F) 11-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(F) 20-Ground : Always continuity

S10 (A), S11 (B) Stereo Component Amplifier

(A) 1, (A) 10-Ground : Always approx. 12 volts
(B) 12-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 15, (A) 16-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C6	35	J22	36	R27 B	40
C10	35	J23	36	R28 C	40
C13	35	J24	36	R29	40
F17	38	J35 A	36	R30	40
F18	38	J36 B	36	S3 A	33
G3	35	P1	33	S3 B	33
J5 A	36	P6	37	S10 A	37
J6 B	36	R10 A	37	S11 B	37
J7 A	36	R12 C	37	T8	37
J8 B	36	R13 D	37	T9	37
J11 A	36	R14 E	37	T10	41
J12 B	36	R15 F	37	T11	41
J18	36	R16 B	37	T12	41
J19	36	R25	40	V10	41
J20	36	R26 A	40	W3	41

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

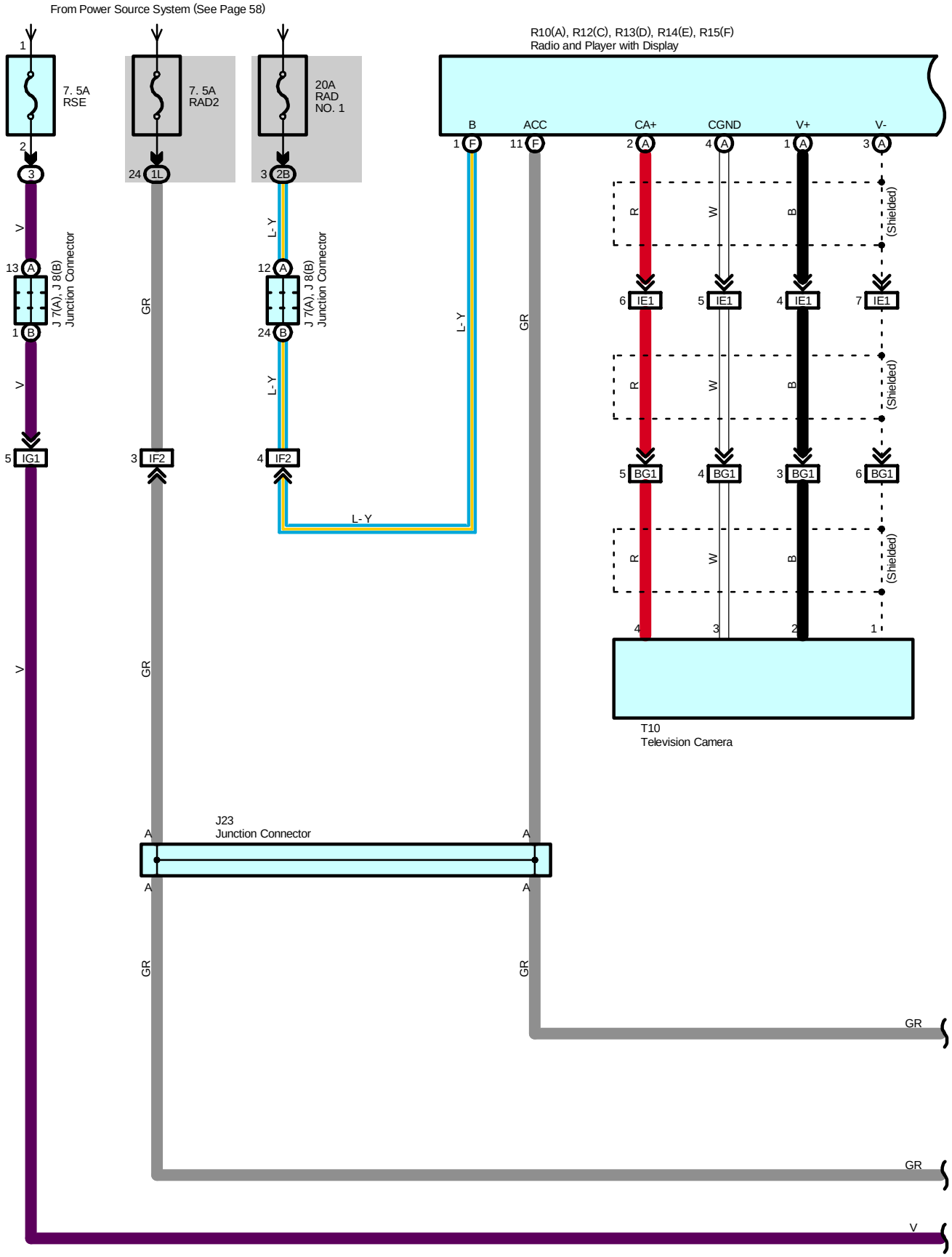
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K	27	
1L		
2A	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		

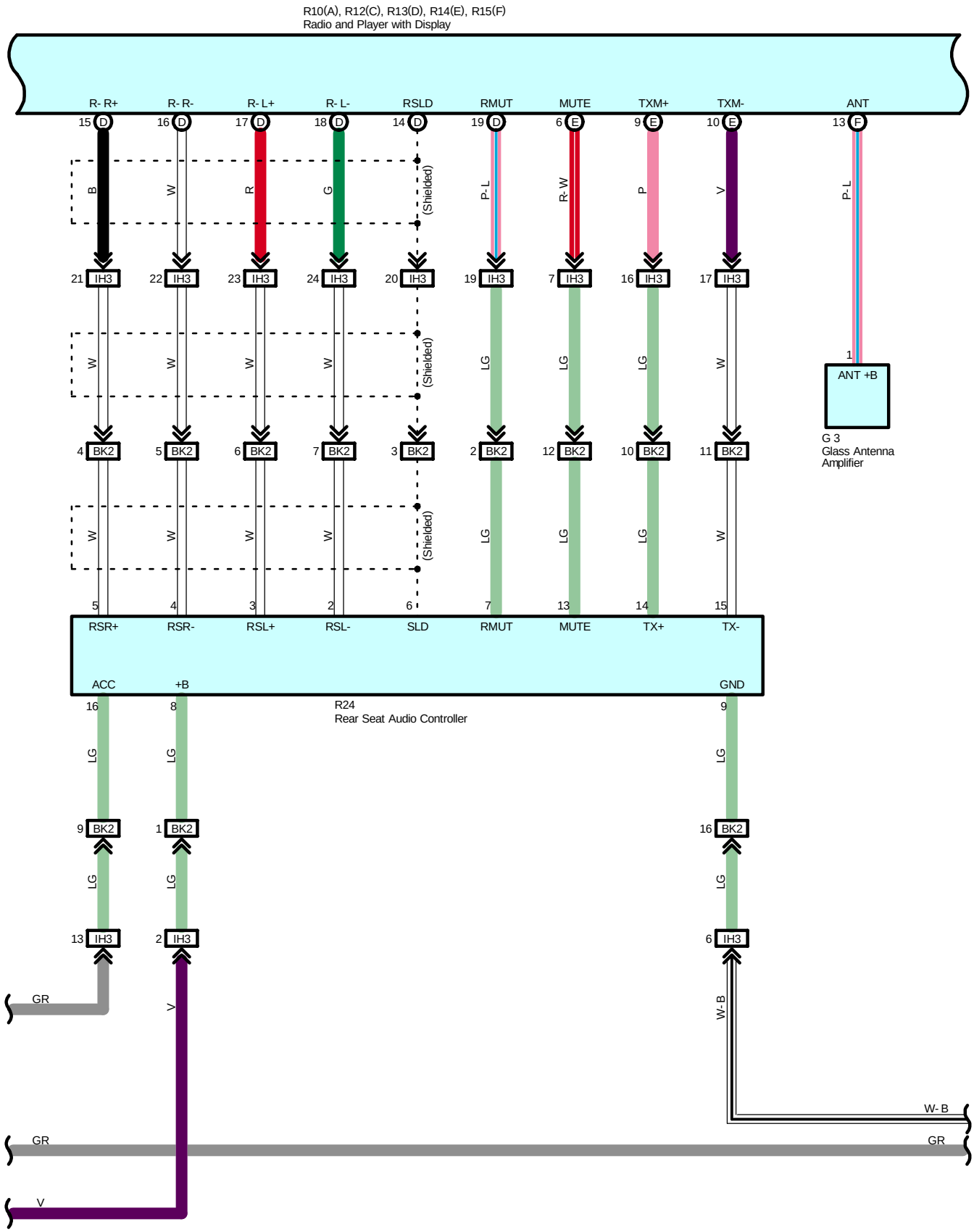
: Connector Joining Wire Harness and Wire Harness

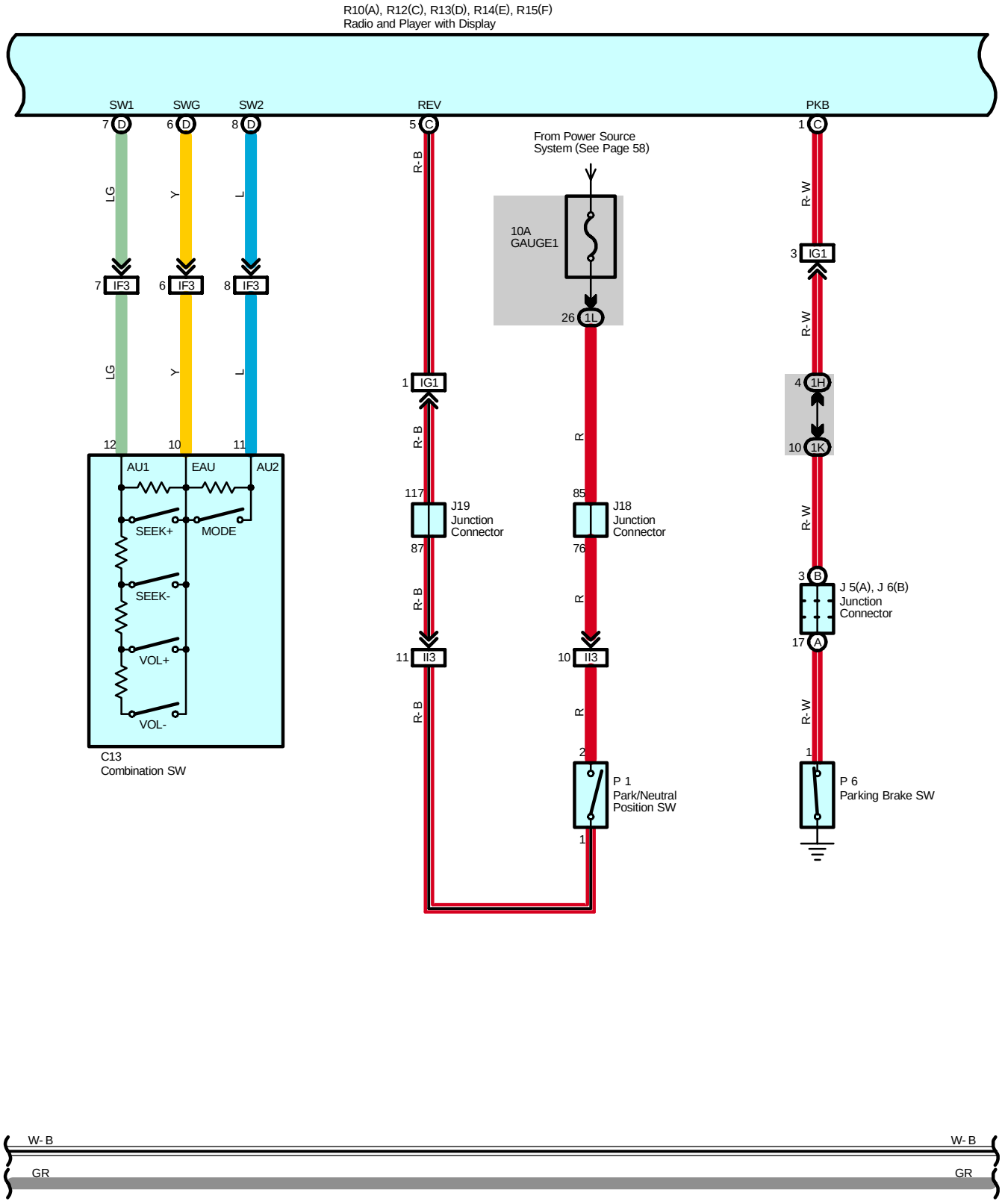
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE1	46	Floor No.1 Wire and Instrument Panel No.2 Wire (Near the Driver Side J/B)
IF1	46	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
IF2		
IF3		
IG1	46	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Brace RH)
IH1	46	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH2		
IH3		
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BK1	52	Roof No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

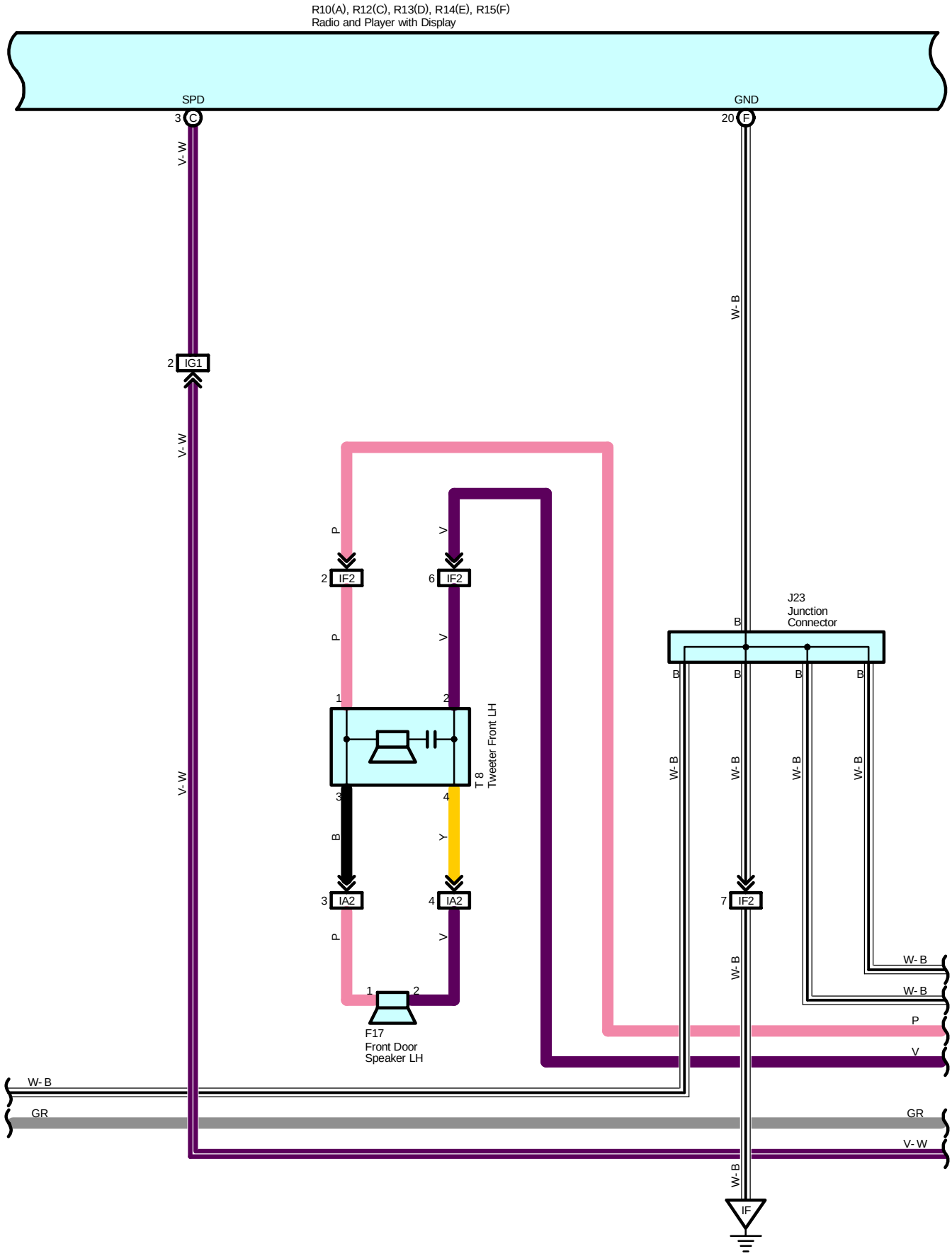
: Ground Points

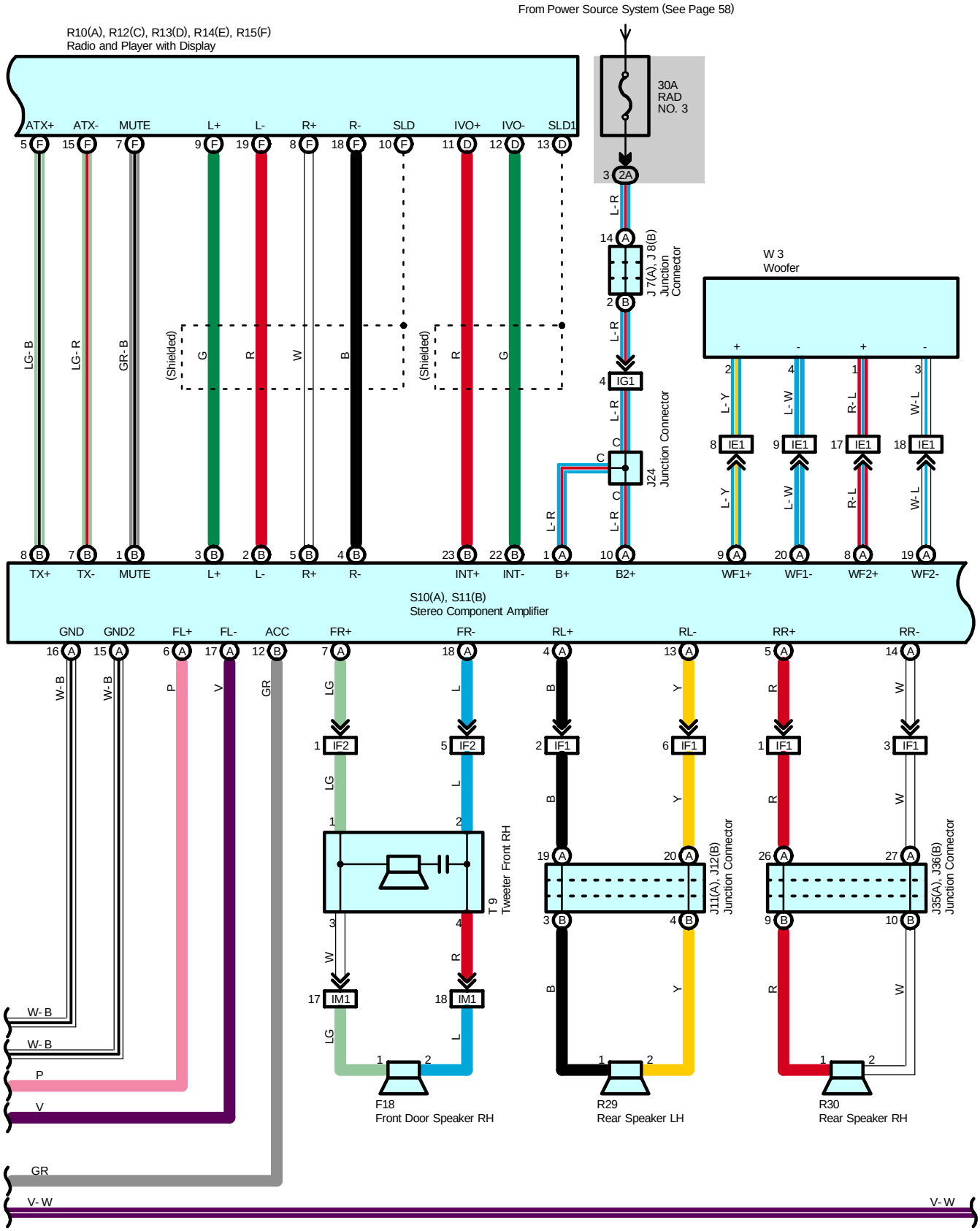
Code	See Page	Ground Points Location
IF	46	Instrument Panel Brace LH

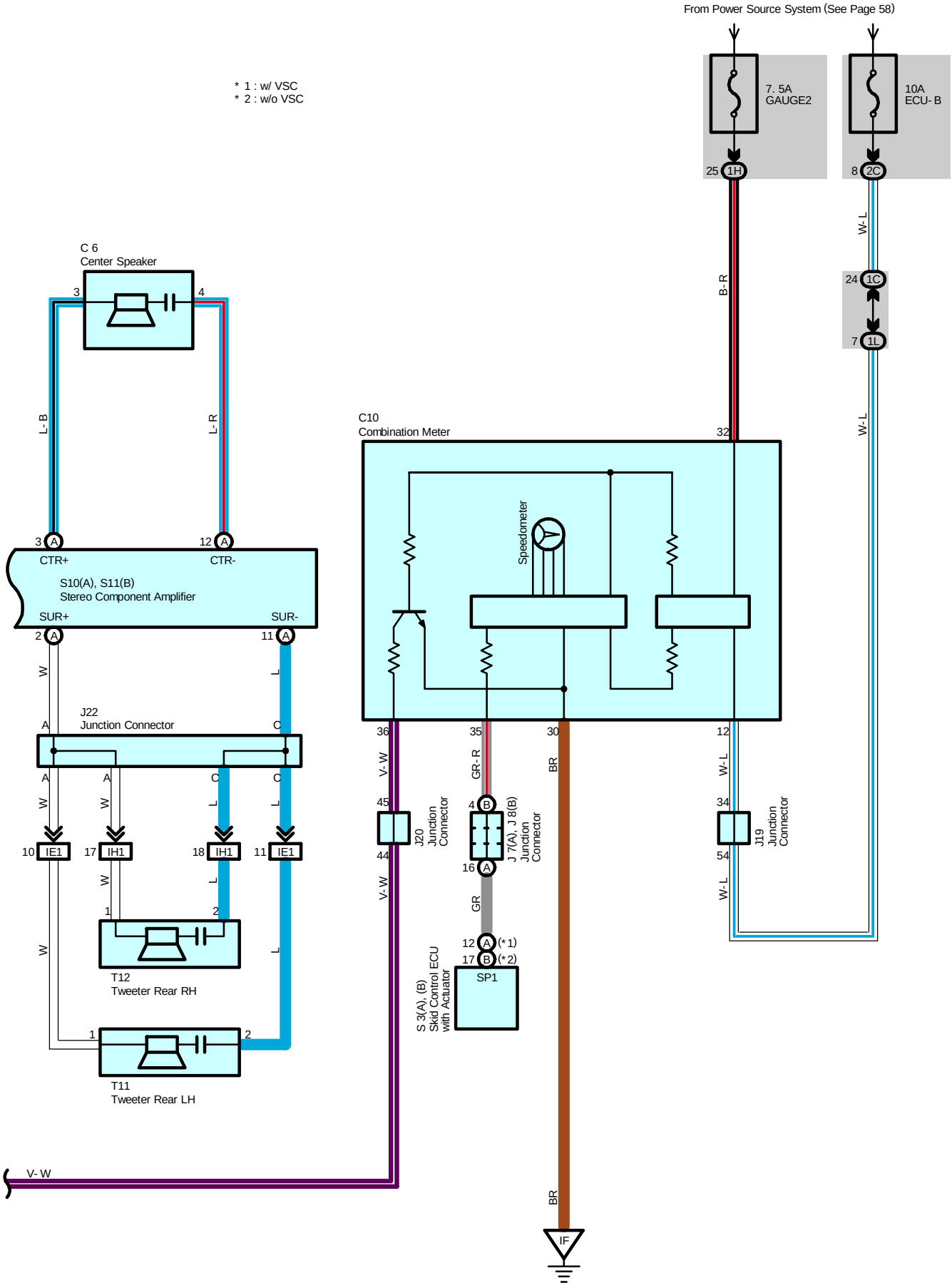

From Power Source System (See Page 58)
7. 5A
RSE
7. 5A
RAD2
20A
RAD
NO. 1
R10(A), R12(C), R13(D), R14(E), R15(F)
Radio and Player with Display
B
ACC
CA+
CGND
V+
V-
J 7(A), J 8(B)
Junction Connector
IG1
IF2
IE1
BG1
(Shielded)
T10
Television Camera
J23
Junction Connector
L- Y
GR
V


R10(A), R12(C), R13(D), R14(E), R15(F)
Radio and Player with Display
R- R+
R- R-
R- L+
R- L-
RSLD
RMUT
MUTE
TXM+
TXM-
ANT
15 D
16 D
17 D
18 D
14 D
19 D
6 E
9 E
10 E
13 F
B
W
R
G
(Shielded)
P- L
R- W
P
V
21 IH3
22 IH3
23 IH3
24 IH3
20 IH3
19 IH3
7 IH3
16 IH3
17 IH3
W
LG
4 BK2
5 BK2
6 BK2
7 BK2
3 BK2
2 BK2
12 BK2
10 BK2
11 BK2
5
4
3
2
6
7
13
14
15
RSR+
RSR-
RSL+
RSL-
SLD
RMUT
MUTE
TX+
TX-
1
ANT +B
G 3
Glass Antenna
Amplifier
ACC
+B
GND
16
8
9
R24
Rear Seat Audio Controller
9 BK2
1 BK2
16 BK2
13 IH3
2 IH3
6 IH3
GR
V
W- B


R10(A), R12(C), R13(D), R14(E), R15(F)
Radio and Player with Display
SW1
SWG
SW2
REV
PKB
7 D
6 D
8 D
5 C
1 C
LG
Y
L
R-B
R-W
From Power Source
System (See Page 58)
10A
GAUGE1
26 1L
3 IG1
7 IF3
6 IF3
8 IF3
1 IG1
4 1H
10 1K
12
10
11
AU1
EAU
AU2
SEEK+
MODE
SEEK-
VOL+
VOL-
C13
Combination SW
117
87
J19
Junction
Connector
85
76
J18
Junction
Connector
11 II3
10 II3
R
2
1
P 1
Park/Neutral
Position SW
3 B
17 A
J 5(A), J 6(B)
Junction
Connector
P 6
Parking Brake SW
W-B
GR


R10(A), R12(C), R13(D), R14(E), R15(F)
Radio and Player with Display
SPD
3 C
GND
20 F
V- W
W- B
2 IG1
V- W
V- W
P
V
2 IF2
6 IF2
P
V
1
2
T 8
Tweeter Front LH
3
4
B
Y
3 IA2
4 IA2
P
V
1
2
F17
Front Door
Speaker LH
J23
Junction
Connector
B
B
B
B
B
W- B
W- B
W- B
W- B
7 IF2
W- B
W- B
W- B
P
V
W- B
GR
GR
V- W
W- B
IF


From Power Source System (See Page 58)
R10(A), R12(C), R13(D), R14(E), R15(F)
Radio and Player with Display
ATX+
ATX-
MUTE
L+
L-
R+
R-
SLD
IVO+
IVO-
SLD1
30A
RAD
NO. 3
2A
J7(A), J8(B)
Junction
Connector
W 3
Woofer
IG1
J24
Junction Connector
IE1
(Shielded)
TX+
TX-
MUTE
L+
L-
R+
R-
INT+
INT-
B+
B2+
WF1+
WF1-
WF2+
WF2-
S10(A), S11(B)
Stereo Component Amplifier
GND
GND2
FL+
FL-
ACC
FR+
FR-
RL+
RL-
RR+
RR-
IF2
IF1
IM1
T 9
Tweeter Front RH
J11(A), J12(B)
Junction Connector
J35(A), J36(B)
Junction Connector
F18
Front Door Speaker RH
R29
Rear Speaker LH
R30
Rear Speaker RH


From Power Source System (See Page 58)
* 1 : w/ VSC
* 2 : w/o VSC
7. 5A
GAUGE2
10A
ECU- B
25 1H
8 2C
W- L
B- R
24 1C
7 1L
W- L
C 6
Center Speaker
3
4
L- B
L- R
C10
Combination Meter
32
Speedometer
3 A
12 A
CTR+
CTR-
S10(A), S11(B)
Stereo Component Amplifier
SUR+
SUR-
2 A
11 A
W
L
J22
Junction Connector
A
C
A
A
C
C
W
W
L
L
10 IE1
17 IH1
18 IH1
11 IE1
W
L
1
2
W
L
T12
Tweeter Rear RH
1
2
T11
Tweeter Rear LH
36
35
30
12
V- W
GR- R
BR
W- L
45
4 B
34
J20
Junction
Connector
J 7(A), J 8(B)
Junction
Connector
J19
Junction
Connector
44
16 A
54
V- W
GR
W- L
12 A (*1)
17 B (*2)
SP1
S 3(A), (B)
Skid Control ECU
with Actuator
V- W
BR
IF

Service Hints

R15 (F) Radio and Player with Display

(F) 1-Ground : Always approx. 12 volts
(F) 11-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(F) 20-Ground : Always continuity

S10 (A), S11 (B) Stereo Component Amplifier

(A) 1, (A) 10-Ground : Always approx. 12 volts
(B) 12-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 15, (A) 16-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C6	35	J20	36	R29	40
C10	35	J22	36	R30	40
C13	35	J23	36	S3 A	33
F17	38	J24	36	S3 B	33
F18	38	J35 A	36	S10 A	37
G3	35	J36 B	36	S11 B	37
J5 A	36	P1	33	T8	37
J6 B	36	P6	37	T9	37
J7 A	36	R10 A	37	T10	41
J8 B	36	R12 C	37	T11	41
J11 A	36	R13 D	37	T12	41
J12 B	36	R14 E	37	W3	41
J18	36	R15 F	37		
J19	36	R24	40		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	26	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K	27	
1L		
2A	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		

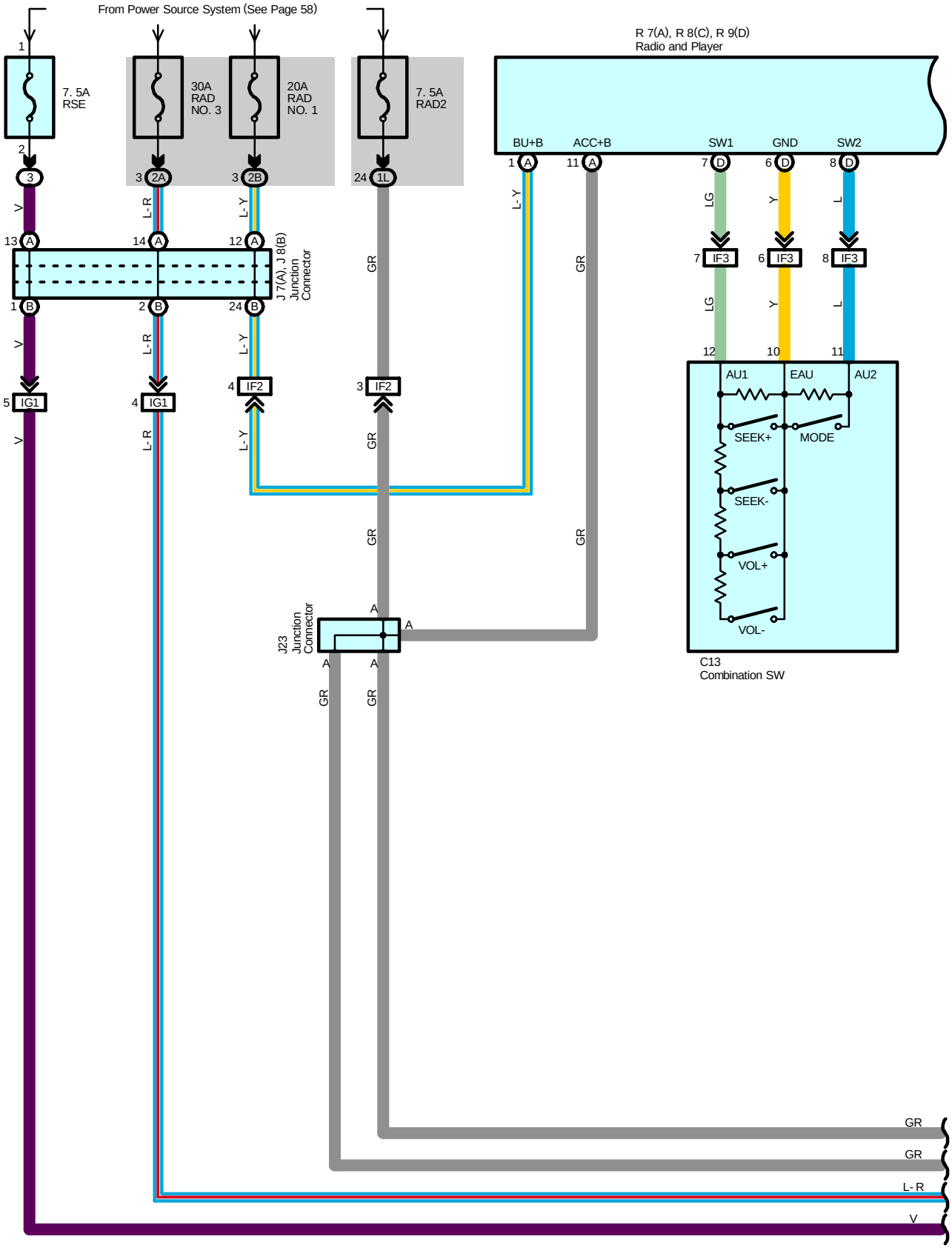
: Connector Joining Wire Harness and Wire Harness

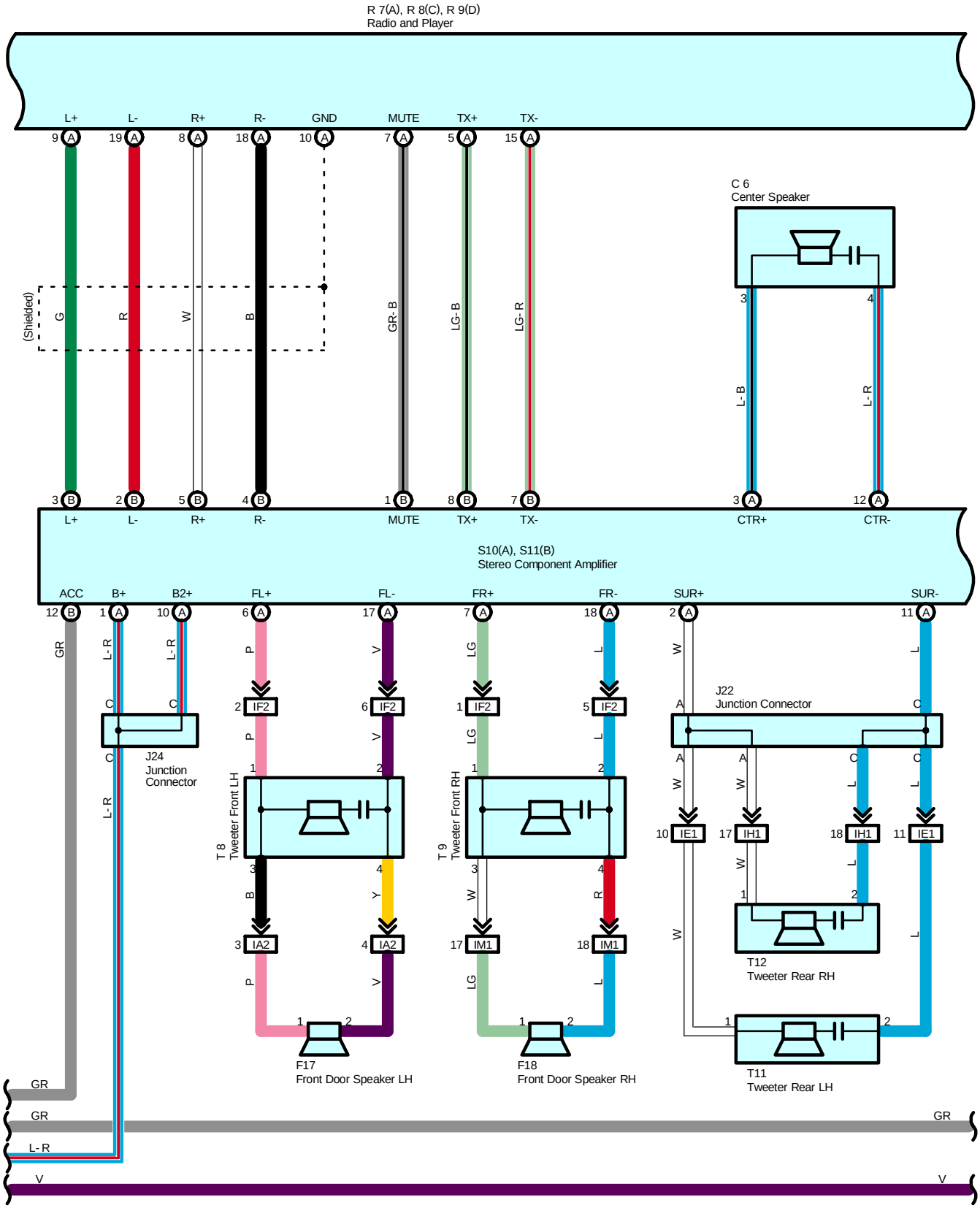
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE1	46	Floor No.1 Wire and Instrument Panel No.2 Wire (Near the Driver Side J/B)
IF1	46	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
IF2		
IF3		
IG1	46	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Brace RH)
IH1	46	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH3		
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BK2	52	Roof No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

: Ground Points

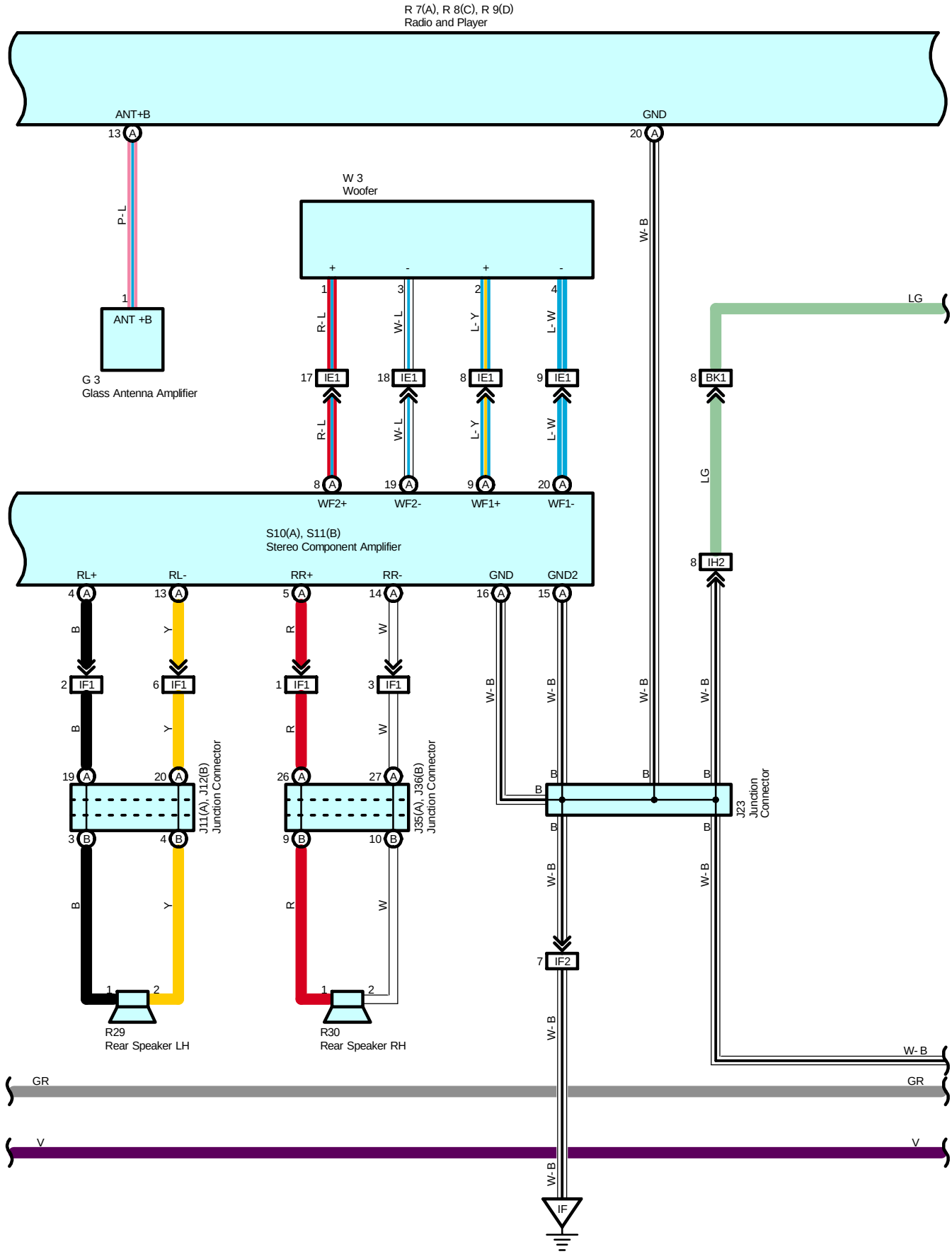
Code	See Page	Ground Points Location
IF	46	Instrument Panel Brace LH

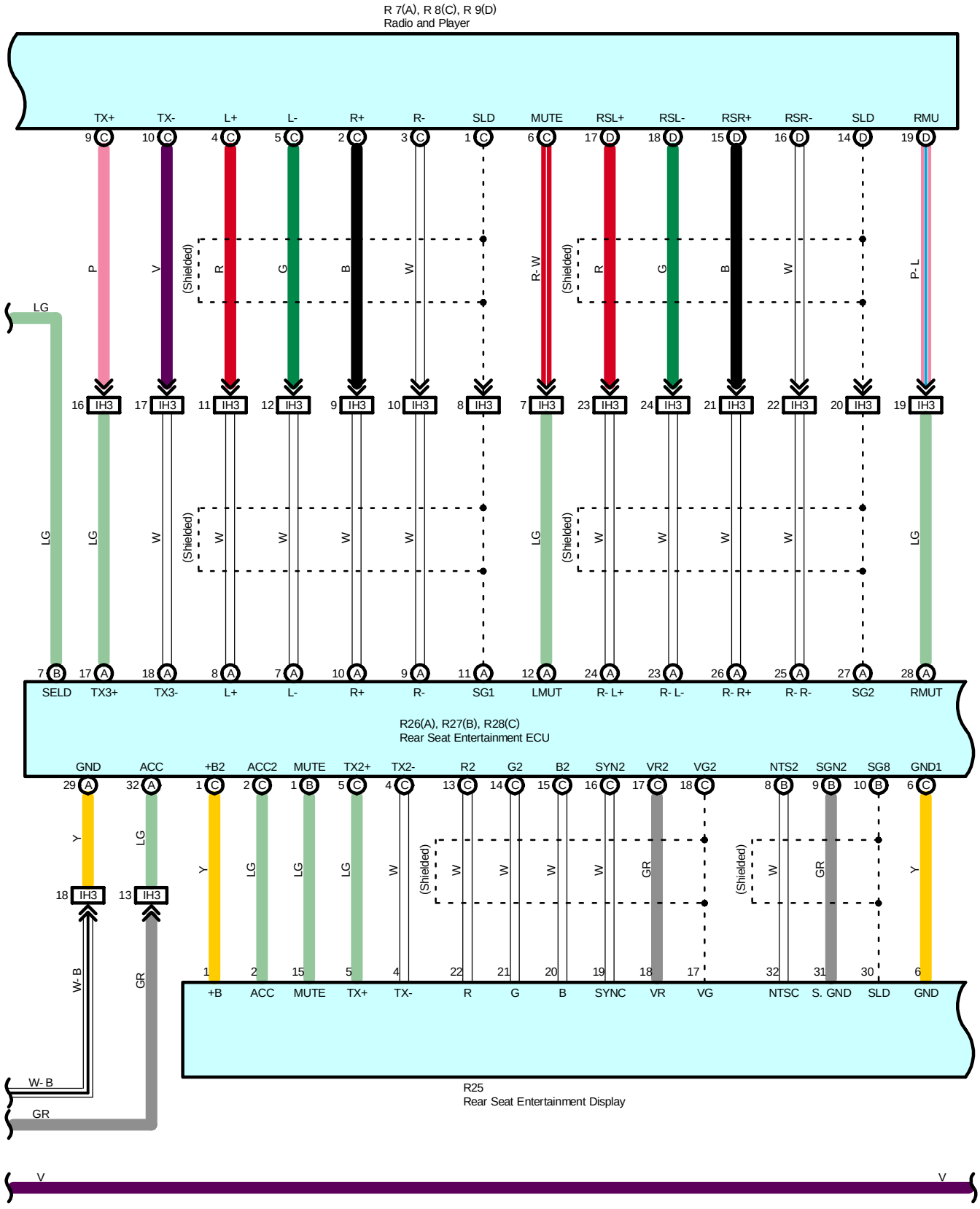
Audio System with 10 Speaker and RSES



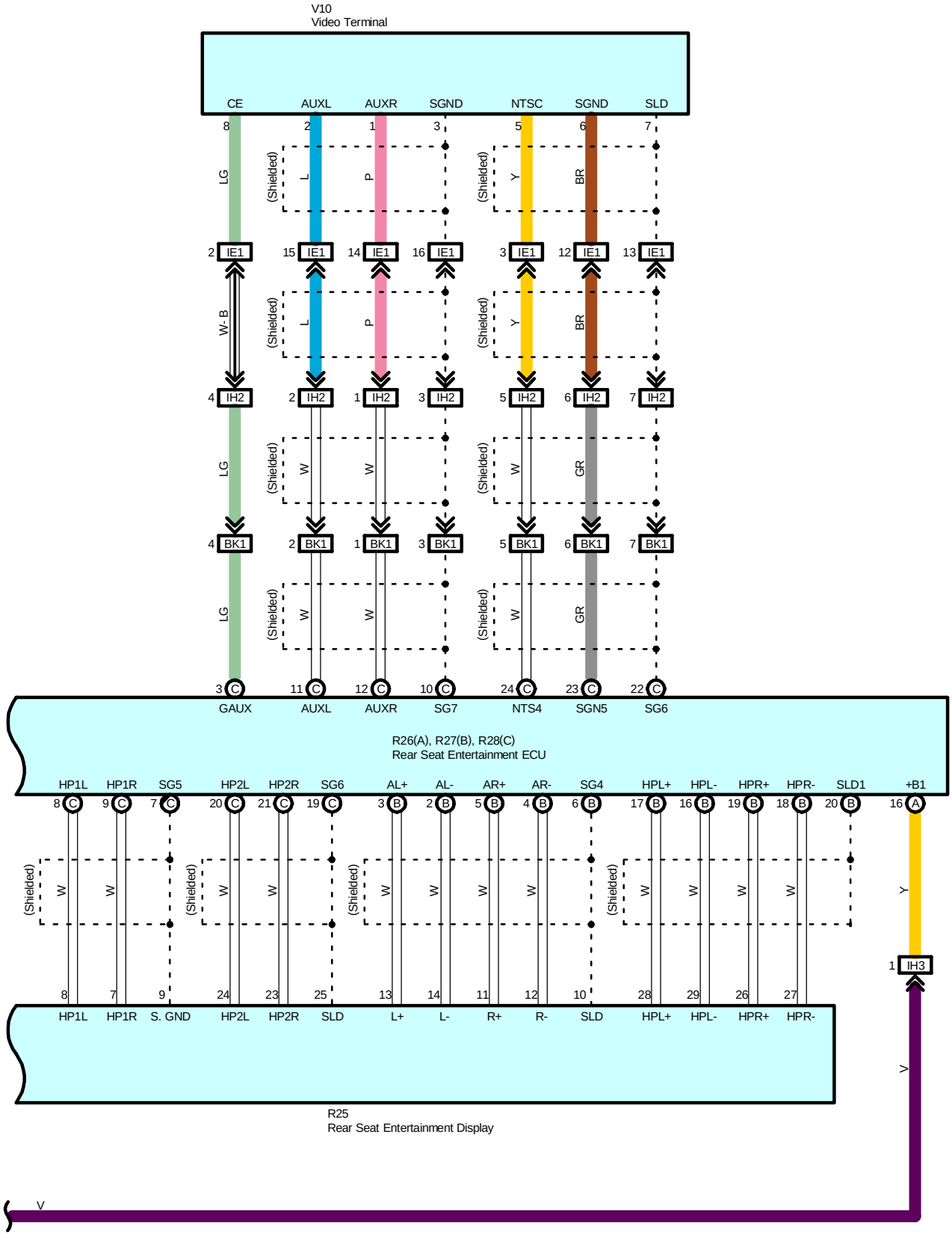

R 7(A), R 8(C), R 9(D)
Radio and Player
L+
L-
R+
R-
GND
MUTE
TX+
TX-
(Shielded)
G
R
W
B
GR- B
LG- B
LG- R
C 6
Center Speaker
L- B
L- R
CTR+
CTR-
S10(A), S11(B)
Stereo Component Amplifier
ACC
B+
B2+
FL+
FL-
FR+
FR-
SUR+
SUR-
GR
L- R
J24
Junction
Connector
P
V
LG
L
W
J22
Junction Connector
IF2
IE1
IH1
IA2
IM1
T 8
Tweeter Front LH
T 9
Tweeter Front RH
F17
Front Door Speaker LH
F18
Front Door Speaker RH
T12
Tweeter Rear RH
T11
Tweeter Rear LH
GR
L- R
V

Audio System with 10 Speaker and RSES




R 7(A), R 8(C), R 9(D)
Radio and Player
TX+
TX-
L+
L-
R+
R-
SLD
MUTE
RSL+
RSL-
RSR+
RSR-
SLD
RMU
(Shielded)
LG
IH3
SELD
TX3+
TX3-
L+
L-
R+
R-
SG1
LMUT
R- L+
R- L-
R- R+
R- R-
SG2
RMUT
R26(A), R27(B), R28(C)
Rear Seat Entertainment ECU
GND
ACC
+B2
ACC2
MUTE
TX2+
TX2-
R2
G2
B2
SYN2
VR2
VG2
NTS2
SGN2
SG8
GND1
+B
ACC
MUTE
TX+
TX-
R
G
B
SYNC
VR
VG
NTSC
S. GND
SLD
GND
W- B
GR
R25
Rear Seat Entertainment Display
V

Audio System with 10 Speaker and RSES



Service Hints

R7 (A) Radio and Player

(A) 1-Ground : Always approx. 12 volts
(A) 11-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 20-Ground : Always continuity

S10 (A), S11 (B) Stereo Component Amplifier

(A) 1, (A) 10-Ground : Always approx. 12 volts
(B) 12-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 15, (A) 16-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C6	35	J24	36	R30	40
C13	35	J35 A	36	S10 A	37
F17	38	J36 B	36	S11 B	37
F18	38	R7 A	37	T8	37
G3	35	R8 C	37	T9	37
J7 A	36	R9 D	37	T11	41
J8 B	36	R25	40	T12	41
J11 A	36	R26 A	40	V10	41
J12 B	36	R27 B	40	W3	41
J22	36	R28 C	40		
J23	36	R29	40		

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

▭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2A	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		

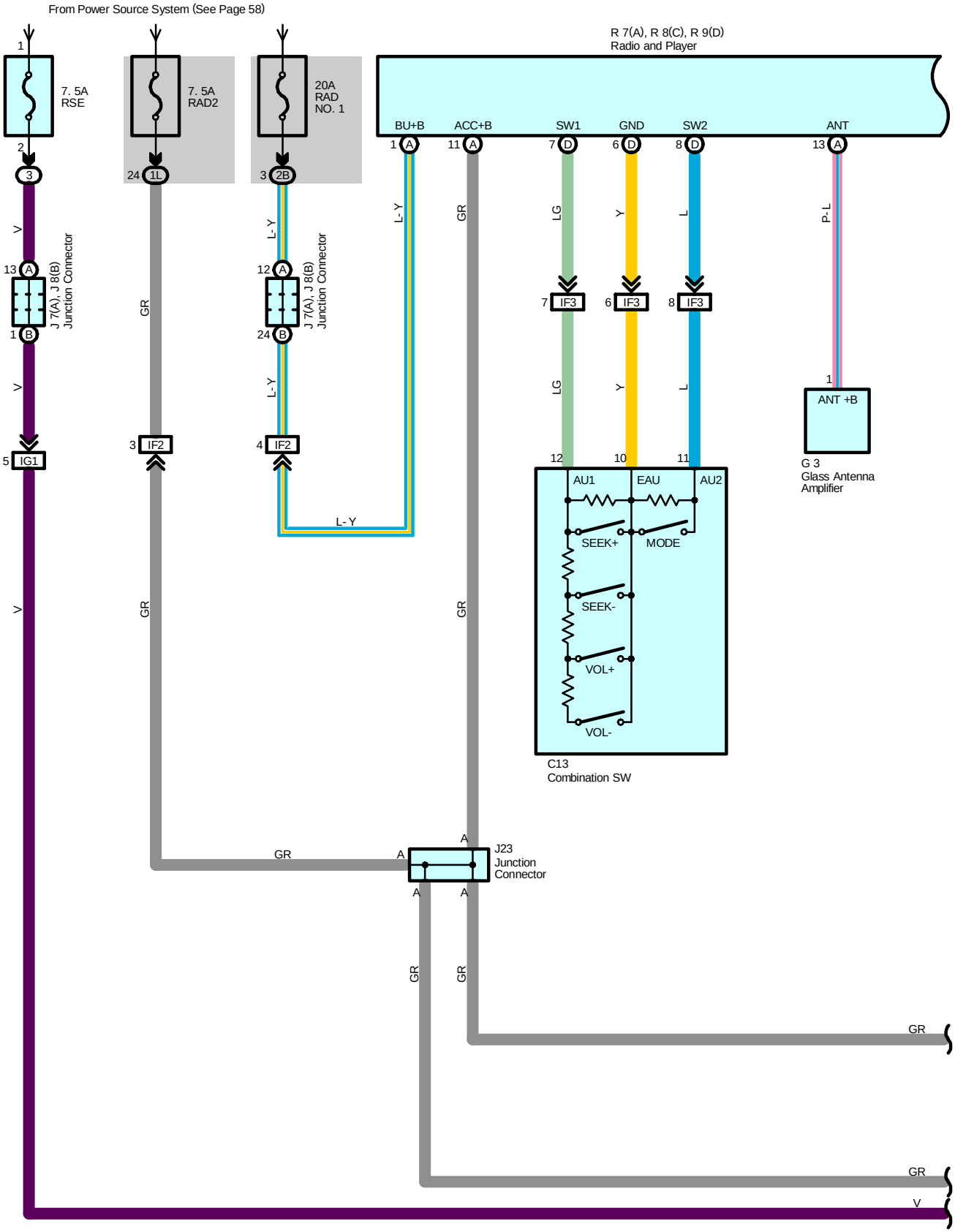
▭ : Connector Joining Wire Harness and Wire Harness

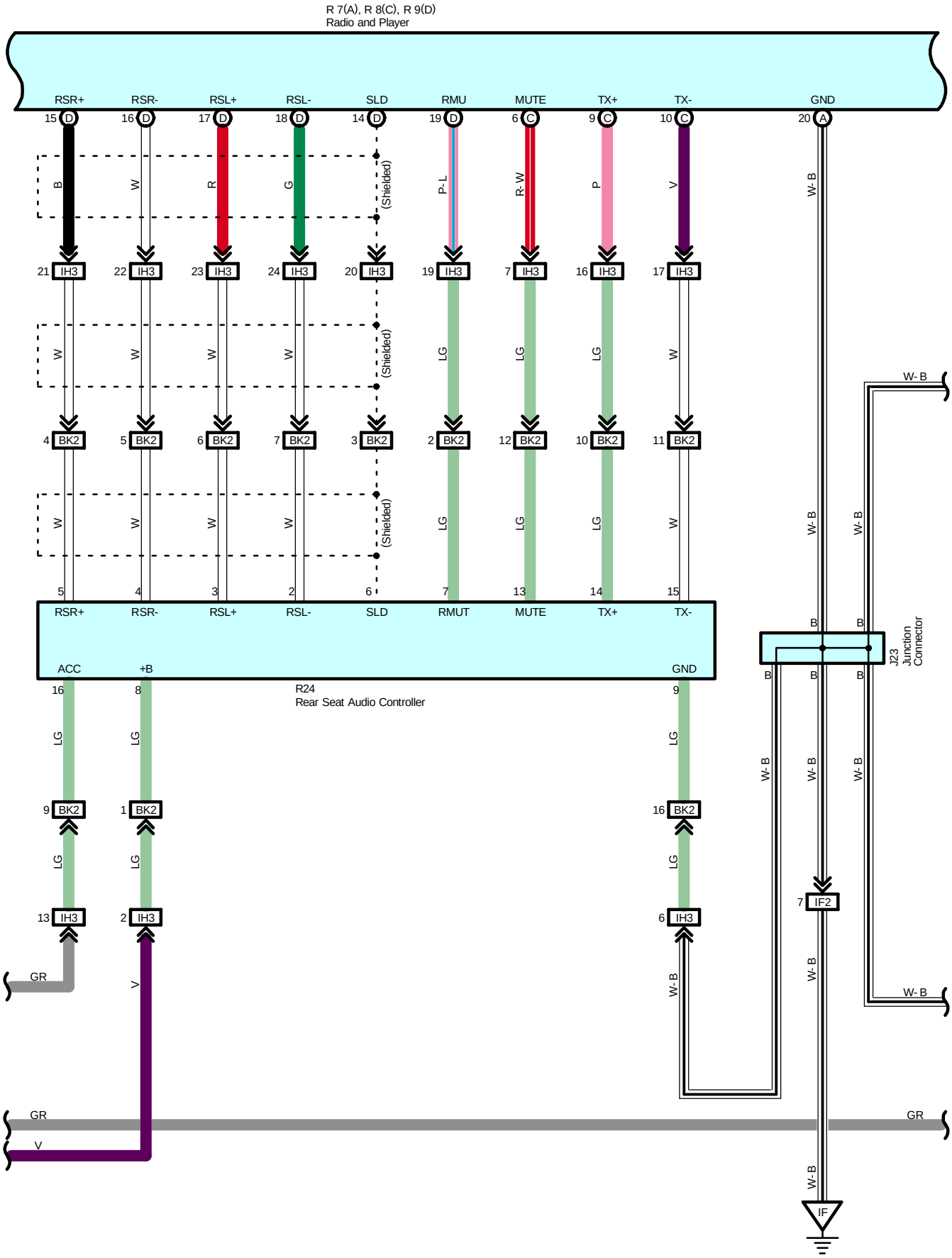
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE1	46	Floor No.1 Wire and Instrument Panel No.2 Wire (Near the Driver Side J/B)
IF1	46	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
IF2		
IF3		
IG1	46	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Brace RH)
IH1	46	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH2		
IH3		
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BK1	52	Roof No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

▽ : Ground Points

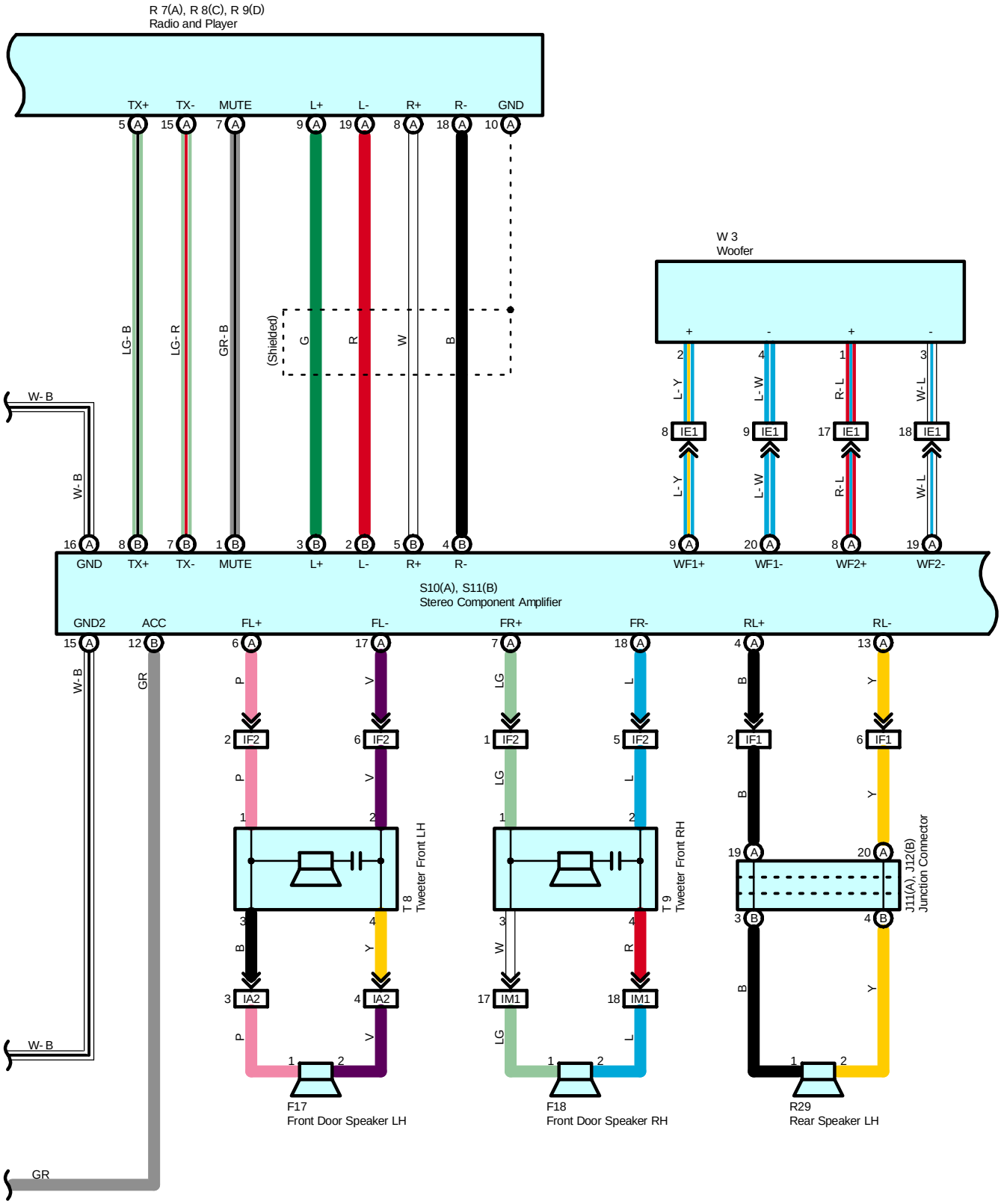
Code	See Page	Ground Points Location
IF	46	Instrument Panel Brace LH

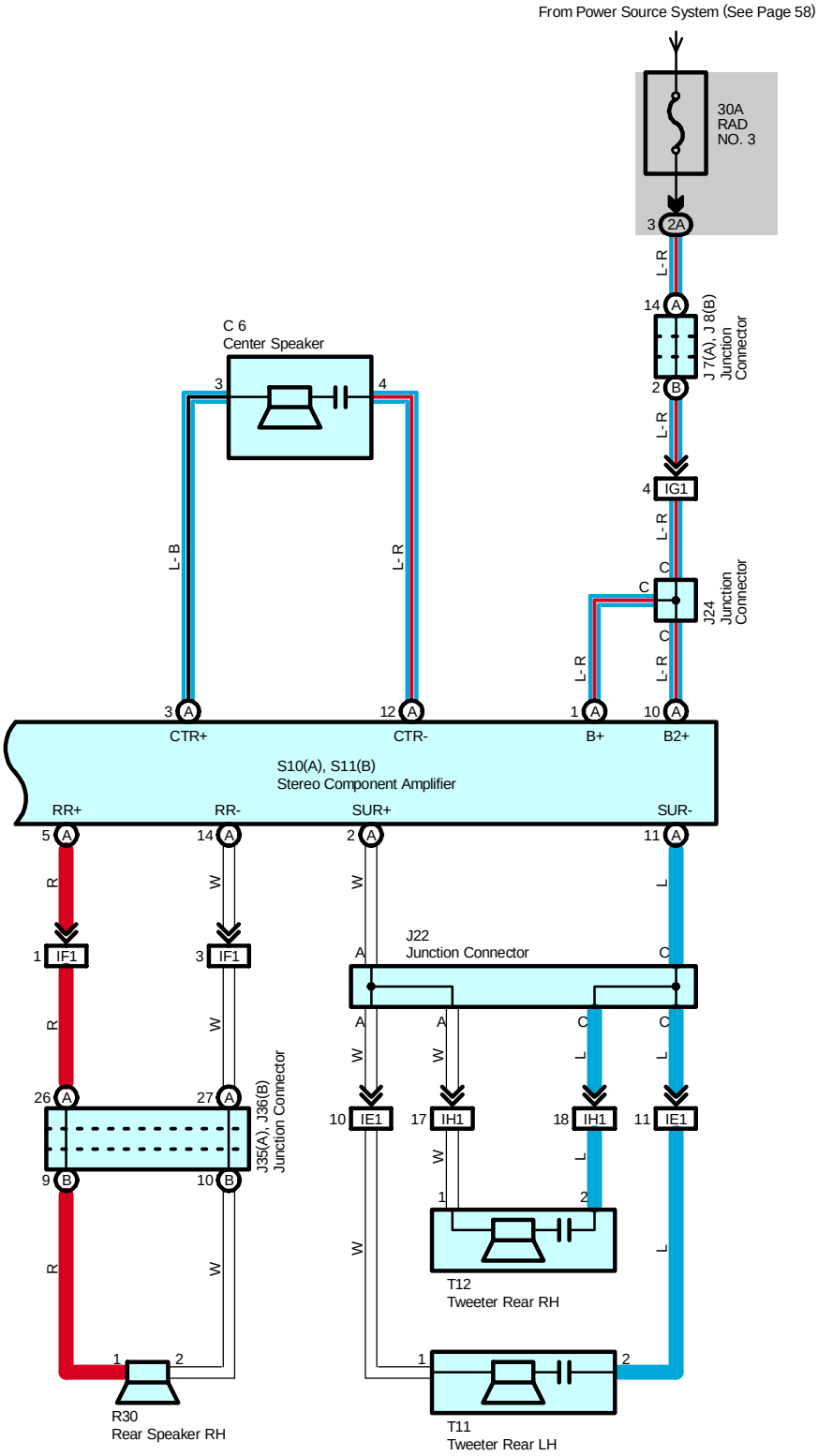
Audio System with 10 Speaker and RSAS




R 7(A), R 8(C), R 9(D)
Radio and Player
RSR+
RSR-
RSL+
RSL-
SLD
RMU
MUTE
TX+
TX-
GND
(Shielded)
IH3
BK2
RSR+
RSR-
RSL+
RSL-
SLD
RMUT
MUTE
TX+
TX-
ACC
+B
GND
R24
Rear Seat Audio Controller
J23
Junction
Connector
IF2
IF
W- B
GR
V

Audio System with 10 Speaker and RSAS




From Power Source System (See Page 58)
30A
RAD
NO. 3
3
2A
L-R
14
A
J 7(A), J 8(B)
Junction
Connector
2
B
L-R
4
IG1
L-R
C
C
J24
Junction
Connector
C
L-R
L-R
C 6
Center Speaker
3
4
L-B
L-R
3
A
12
A
1
A
10
A
CTR+
CTR-
B+
B2+
S10(A), S11(B)
Stereo Component Amplifier
RR+
RR-
SUR+
SUR-
5
A
14
A
2
A
11
A
R
W
W
L
1
IF1
3
IF1
J22
Junction Connector
A
C
R
W
A
A
C
C
W
W
L
L
26
A
27
A
J35(A), J36(B)
Junction Connector
10
IE1
17
IH1
18
IH1
11
IE1
9
B
10
B
W
L
1
2
R
W
W
L
T12
Tweeter Rear RH
1
2
1
2
R30
Rear Speaker RH
T11
Tweeter Rear LH

Audio System with 10 Speaker and RSAS

Service Hints

R7 (A) Radio and Player

(A) 1-Ground : Always approx. 12 volts
(A) 11-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 20-Ground : Always continuity

S10 (A), S11 (B) Stereo Component Amplifier

(A) 1, (A) 10-Ground : Always approx. 12 volts
(B) 12-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 15, (A) 16-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C6	35	J22	36	R29	40
C13	35	J23	36	R30	40
F17	38	J24	36	S10 A	37
F18	38	J35 A	36	S11 B	37
G3	35	J36 B	36	T8	37
J7 A	36	R7 A	37	T9	37
J8 B	36	R8 C	37	T11	41
J11 A	36	R9 D	37	T12	41
J12 B	36	R24	40	W3	41

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2A	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		

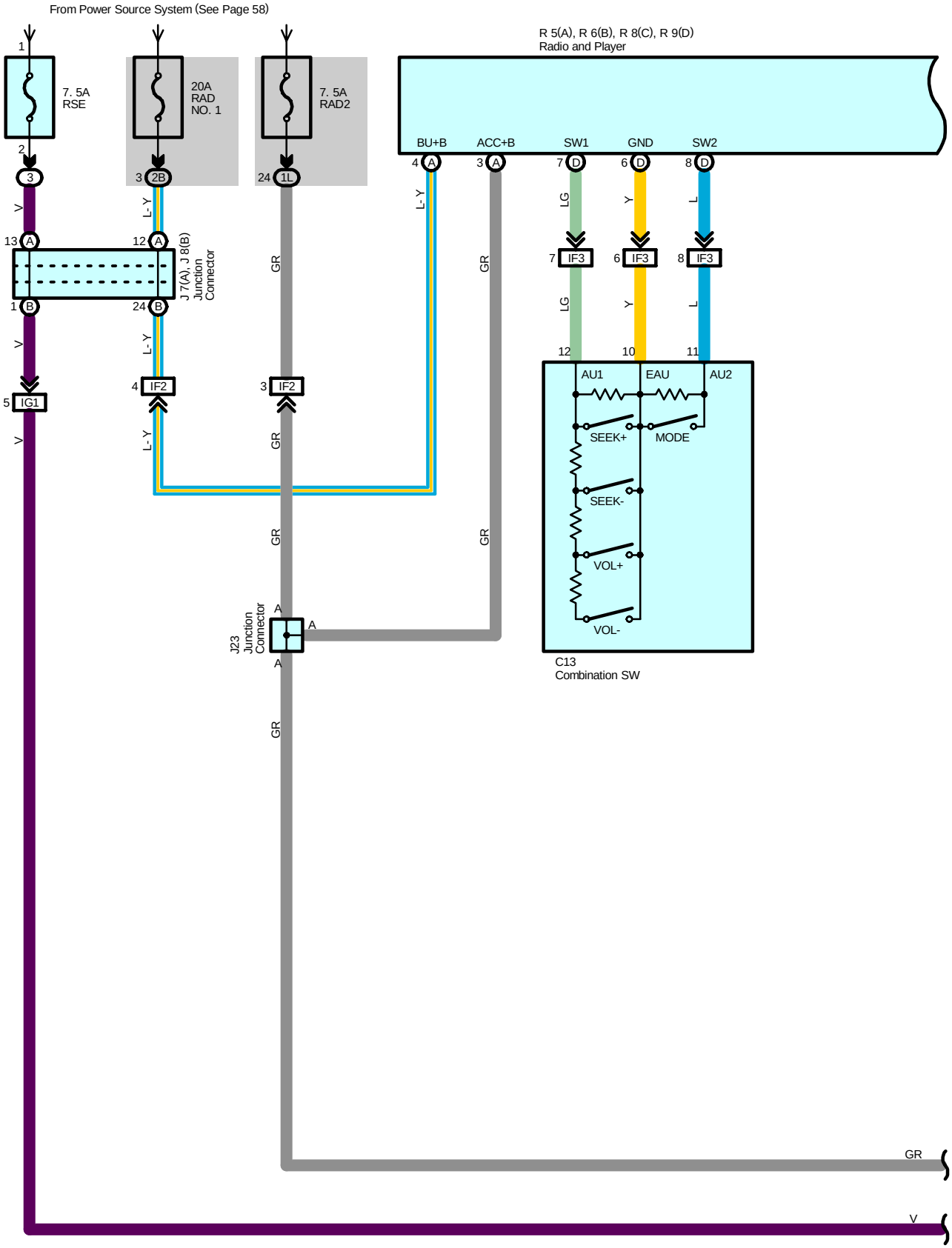
: Connector Joining Wire Harness and Wire Harness

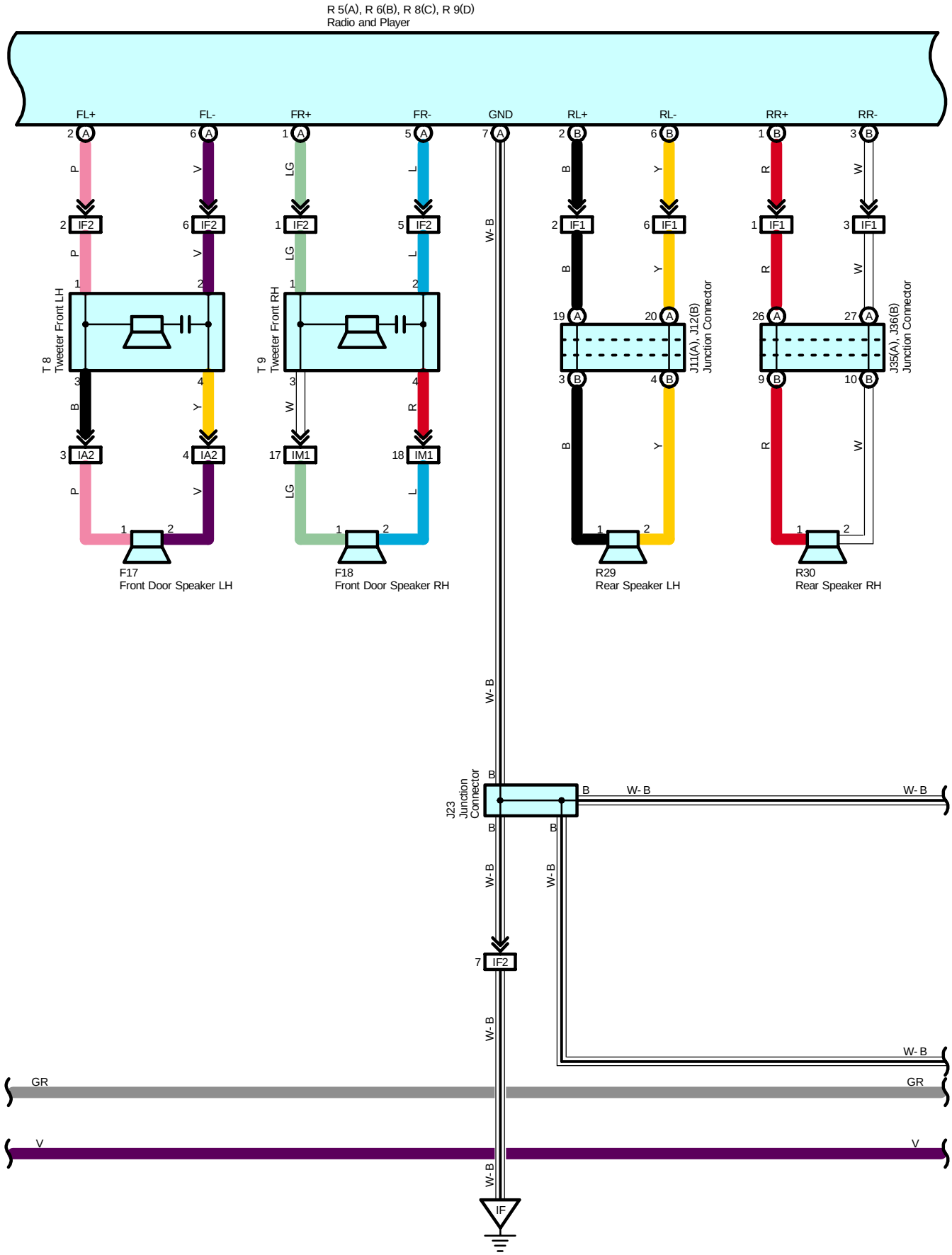
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE1	46	Floor No.1 Wire and Instrument Panel No.2 Wire (Near the Driver Side J/B)
IF1	46	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
IF2		
IF3		
IG1	46	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Brace RH)
IH1	46	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH3		
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BK2	52	Roof No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

: Ground Points

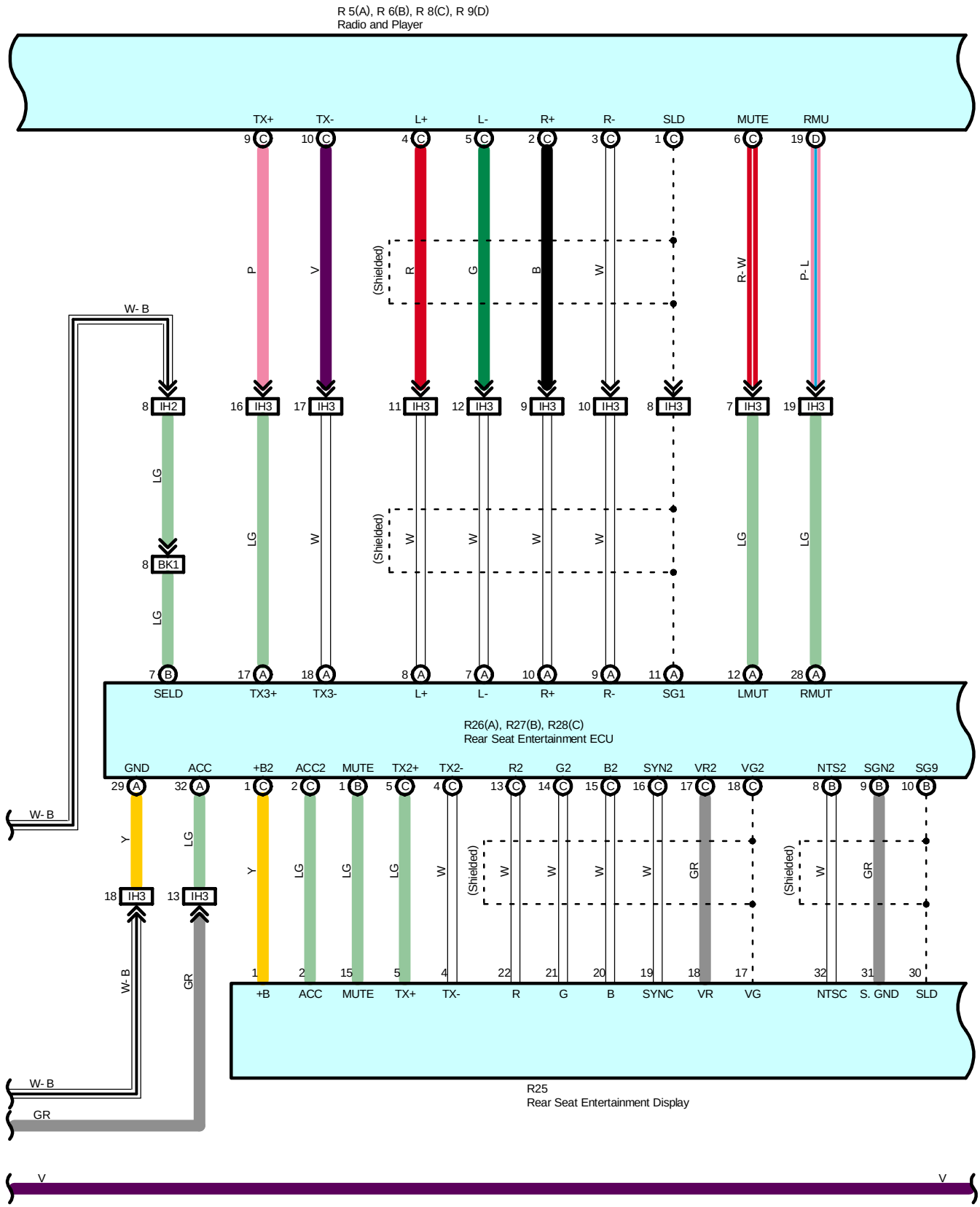
Code	See Page	Ground Points Location
IF	46	Instrument Panel Brace LH

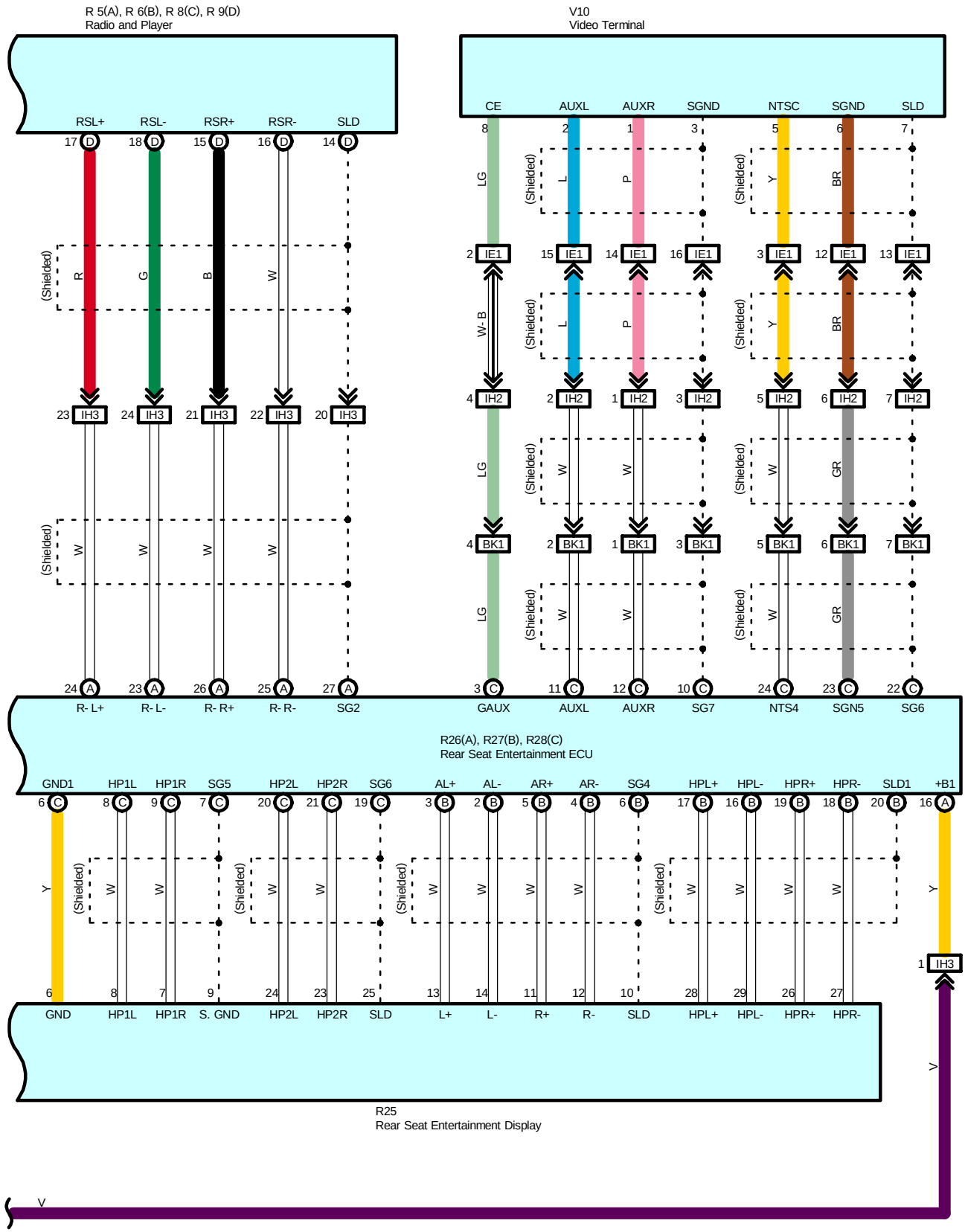
Audio System with 6 Speaker and RSES




R 5(A), R 6(B), R 8(C), R 9(D)
Radio and Player
FL+
FL-
FR+
FR-
GND
RL+
RL-
RR+
RR-
T 8
Tweeter Front LH
T 9
Tweeter Front RH
J11(A), J12(B)
Junction Connector
J35(A), J36(B)
Junction Connector
J23
Junction Connector
F17
Front Door Speaker LH
F18
Front Door Speaker RH
R29
Rear Speaker LH
R30
Rear Speaker RH
IF2
IA2
IM1
IF1
IF
W- B
GR
V

Audio System with 6 Speaker and RSES




R 5(A), R 6(B), R 8(C), R 9(D)
Radio and Player
RSL+
RSL-
RSR+
RSR-
SLD
R- L+
R- L-
R- R+
R- R-
SG2
V10
Video Terminal
CE
AUXL
AUXR
SGND
NTSC
SGND
SLD
GAUX
AUXL
AUXR
SG7
NTS4
SGN5
SG6
R26(A), R27(B), R28(C)
Rear Seat Entertainment ECU
GND1
HP1L
HP1R
SG5
HP2L
HP2R
SG6
AL+
AL-
AR+
AR-
SG4
HPL+
HPL-
HPR+
HPR-
SLD1
+B1
GND
HP1L
HP1R
S. GND
HP2L
HP2R
SLD
L+
L-
R+
R-
SLD
HPL+
HPL-
HPR+
HPR-
R25
Rear Seat Entertainment Display

Audio System with 6 Speaker and RSES

Service Hints

R5 (A) Radio and Player

(A) 4-Ground : Always approx. 12 volts
(A) 3-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 7-Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code		See Page
C13		35	J35	A	36	R27	B	40
F17		38	J36	B	36	R28	C	40
F18		38	R5	A	37	R29		40
J7	A	36	R6	B	37	R30		40
J8	B	36	R8	C	37	T8		37
J11	A	36	R9	D	37	T9		37
J12	B	36	R25		40	V10		41
J23		36	R26	A	40			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2B	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

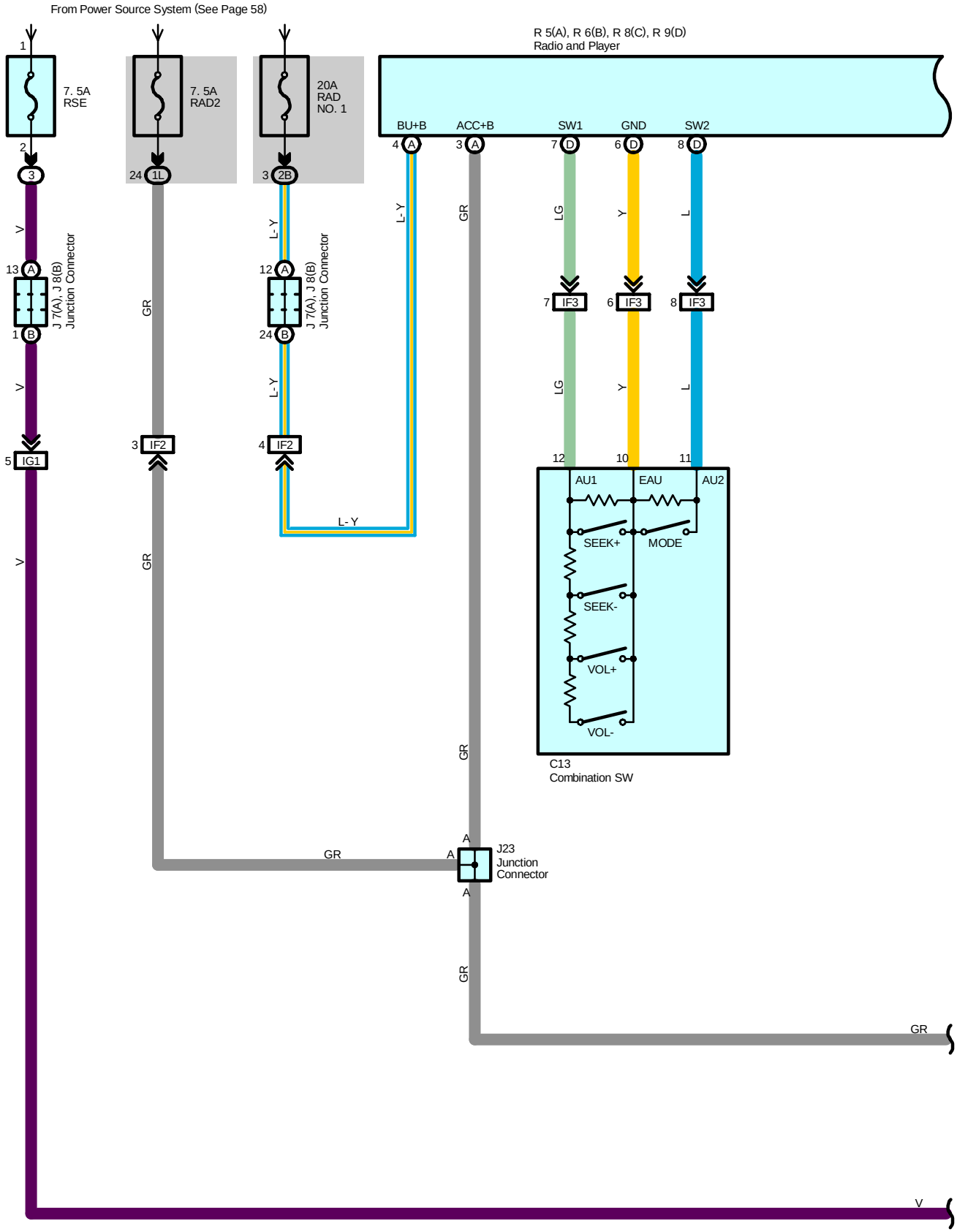
: Connector Joining Wire Harness and Wire Harness

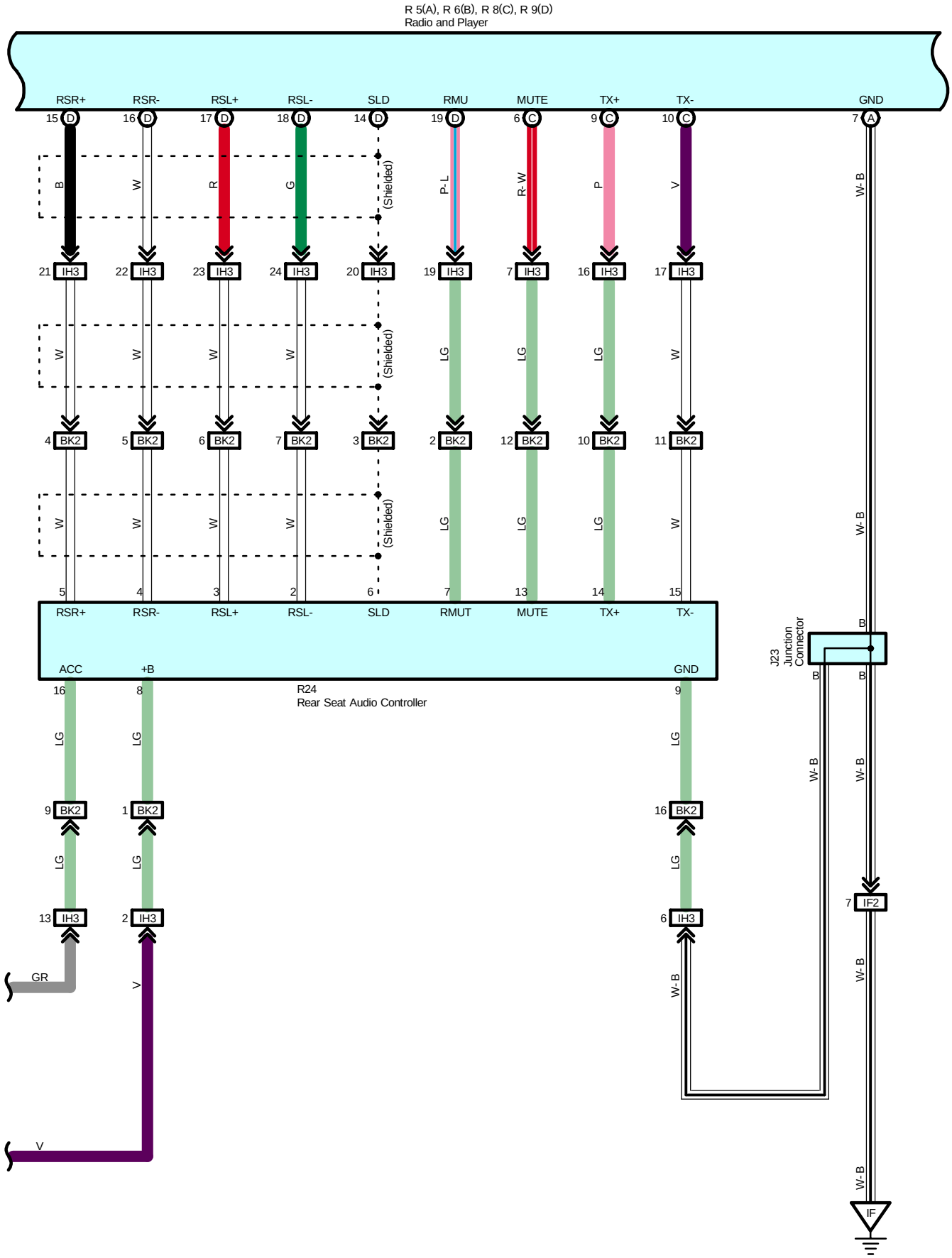
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE1	46	Floor No.1 Wire and Instrument Panel No.2 Wire (Near the Driver Side J/B)
IF1	46	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
IF2		
IF3		
IG1	46	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Brace RH)
IH2	46	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH3		
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BK1	52	Roof No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

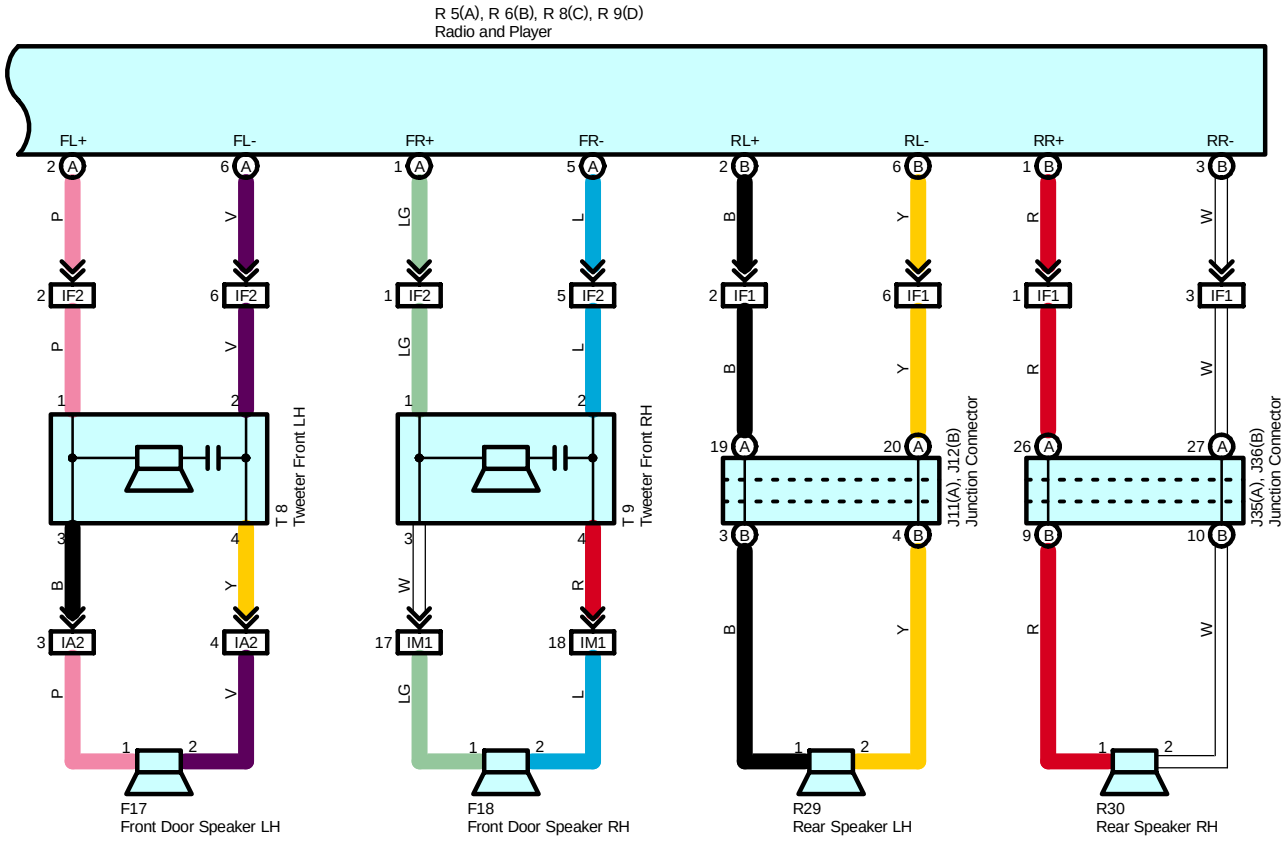
: Ground Points

Code	See Page	Ground Points Location
IF	46	Instrument Panel Brace LH

Audio System with 6 Speaker and RSAS




R 5(A), R 6(B), R 8(C), R 9(D)
Radio and Player
RSR+
RSR-
RSL+
RSL-
SLD
RMU
MUTE
TX+
TX-
GND
15 D
16 D
17 D
18 D
14 D
19 D
6 C
9 C
10 C
7 A
B
W
R
G
(Shielded)
P-L
R-W
P
V
W-B
21 IH3
22 IH3
23 IH3
24 IH3
20 IH3
19 IH3
7 IH3
16 IH3
17 IH3
LG
4 BK2
5 BK2
6 BK2
7 BK2
3 BK2
2 BK2
12 BK2
10 BK2
11 BK2
5
4
3
2
6
7
13
14
15
RSR+
RSR-
RSL+
RSL-
SLD
RMUT
MUTE
TX+
TX-
ACC
+B
GND
R24
Rear Seat Audio Controller
J23
Junction
Connector
B
16
8
9
LG
9 BK2
1 BK2
16 BK2
13 IH3
2 IH3
6 IH3
7 IF2
GR
V
IF


R 5(A), R 6(B), R 8(C), R 9(D)
Radio and Player
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
IF2
IF1
IA2
IM1
T 8
Tweeter Front LH
T 9
Tweeter Front RH
J11(A), J12(B)
Junction Connector
J35(A), J36(B)
Junction Connector
F17
Front Door Speaker LH
F18
Front Door Speaker RH
R29
Rear Speaker LH
R30
Rear Speaker RH

Service Hints

R5 (A) Radio and Player

(A) 4-Ground : Always approx. 12 volts
(A) 3-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 7-Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code	See Page
C13		35	J23		36	R24	40
F17		38	J35	A	36	R29	40
F18		38	J36	B	36	R30	40
J7	A	36	R5	A	37	T8	37
J8	B	36	R6	B	37	T9	37
J11	A	36	R8	C	37		
J12	B	36	R9	D	37		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2B	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

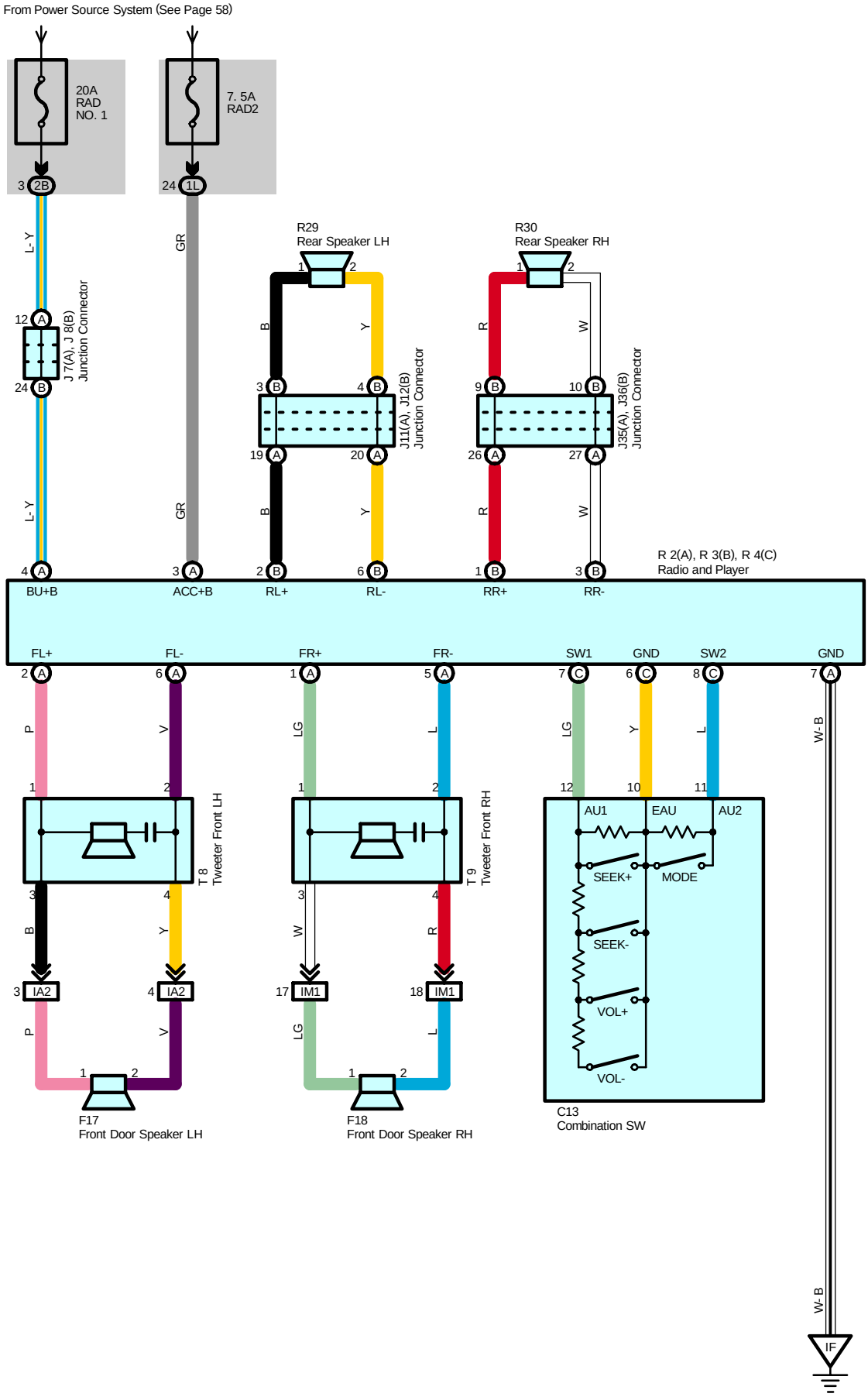
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IF1	46	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
IF2		
IF3		
IG1	46	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Brace RH)
IH3	46	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BK2	52	Roof No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
IF	46	Instrument Panel Brace LH

Audio System with 6 Speaker



Service Hints

R2 (A) Radio and Player

(A) 4-Ground : Always approx. 12 volts
(A) 3-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 7-Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code	See Page
C13		35	J12	B	36	R29	40
F17		38	J35	A	36	R30	40
F18		38	J36	B	36	T8	37
J7	A	36	R2	A	37	T9	37
J8	B	36	R3	B	37		
J11	A	36	R4	C	37		

: Junction Block and Wire Harness Connector

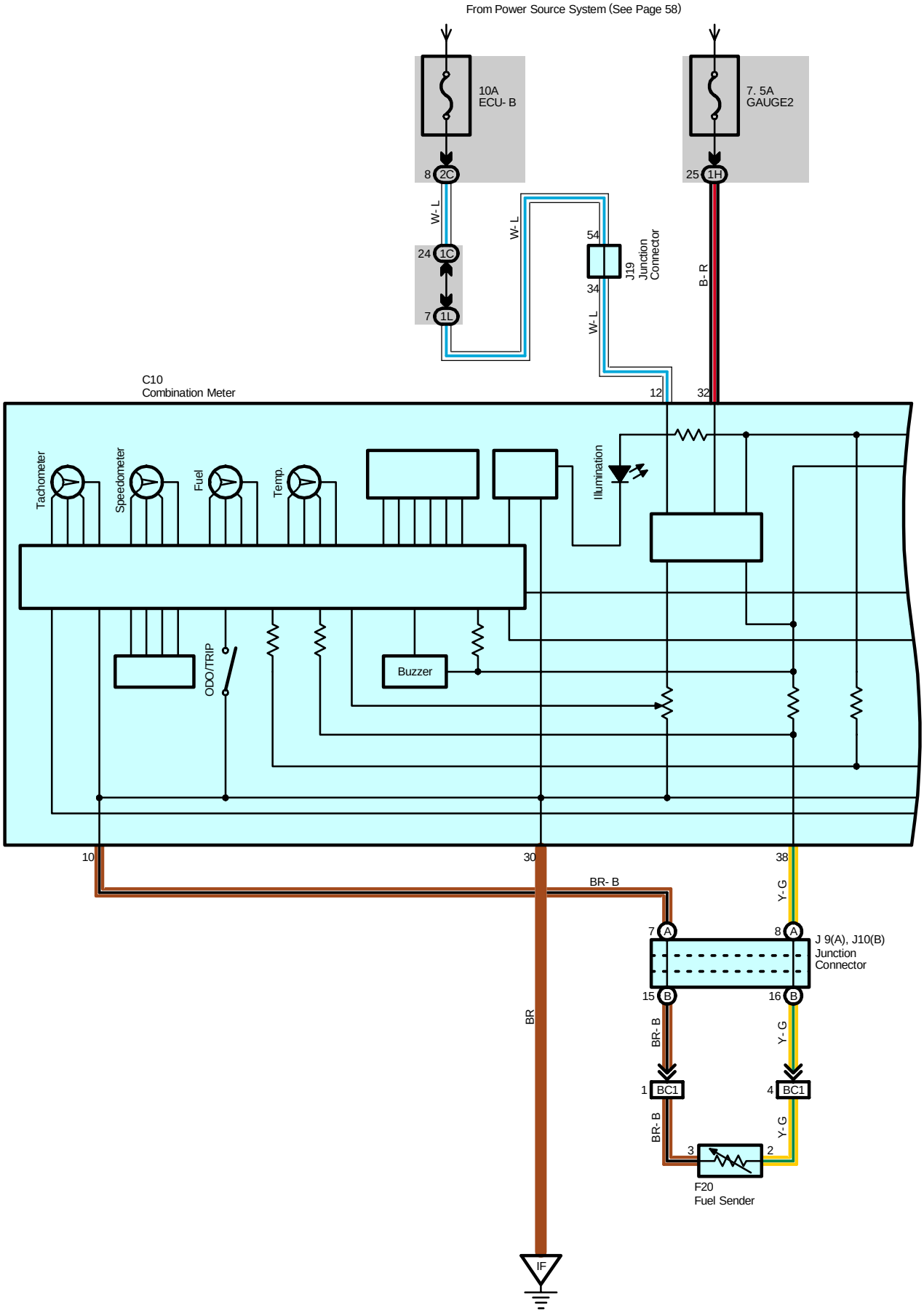
Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2B	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

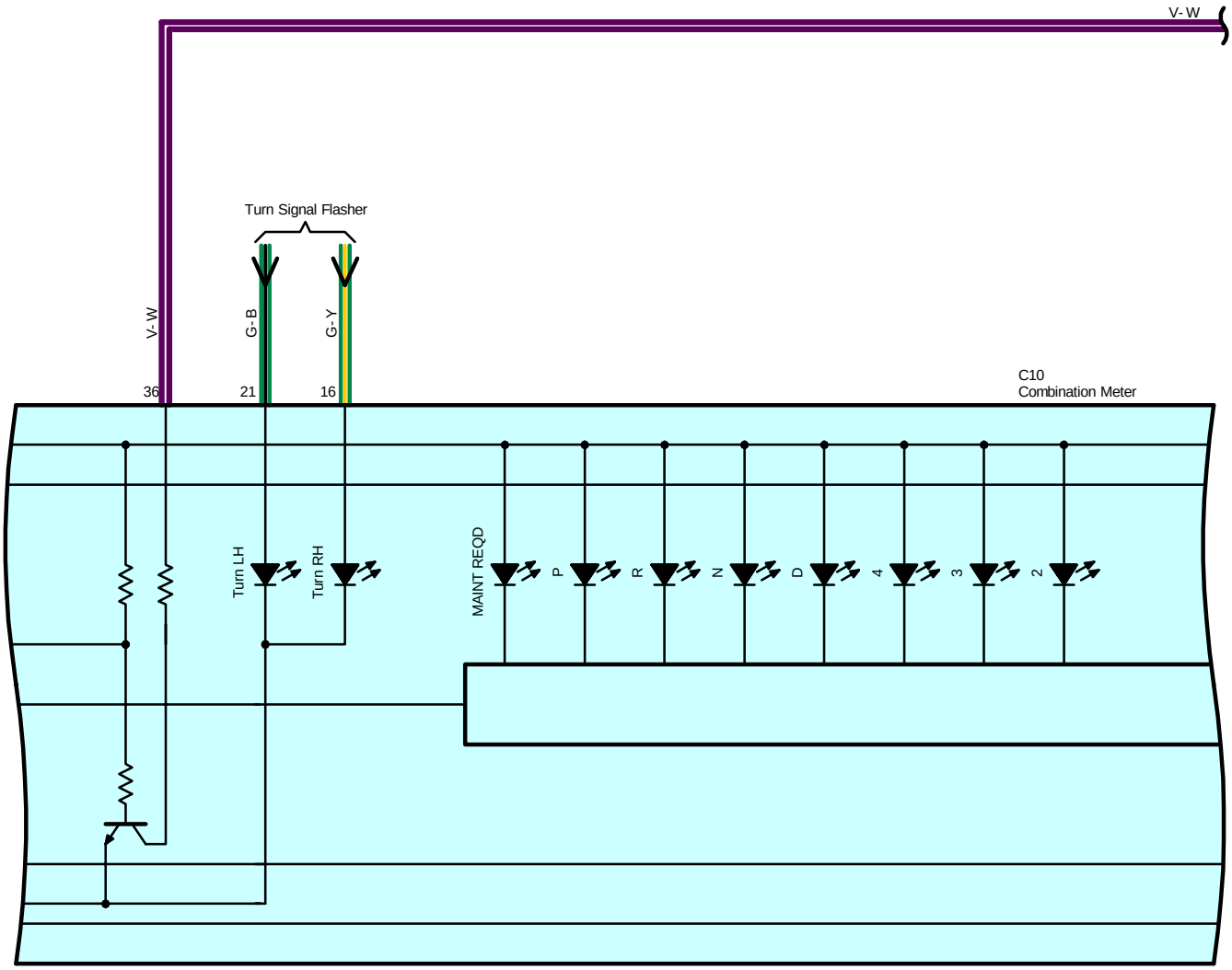
: Connector Joining Wire Harness and Wire Harness

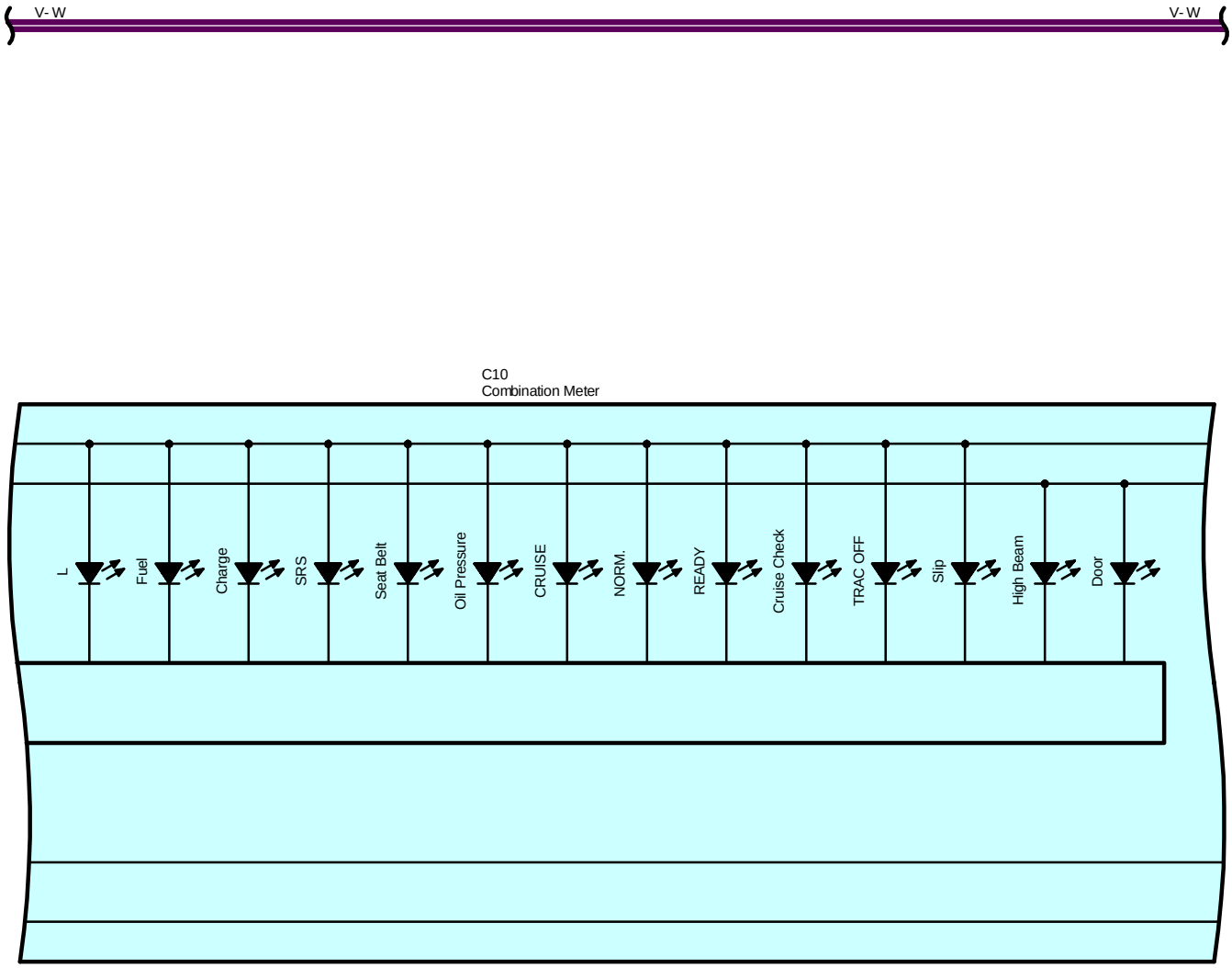
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM1	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

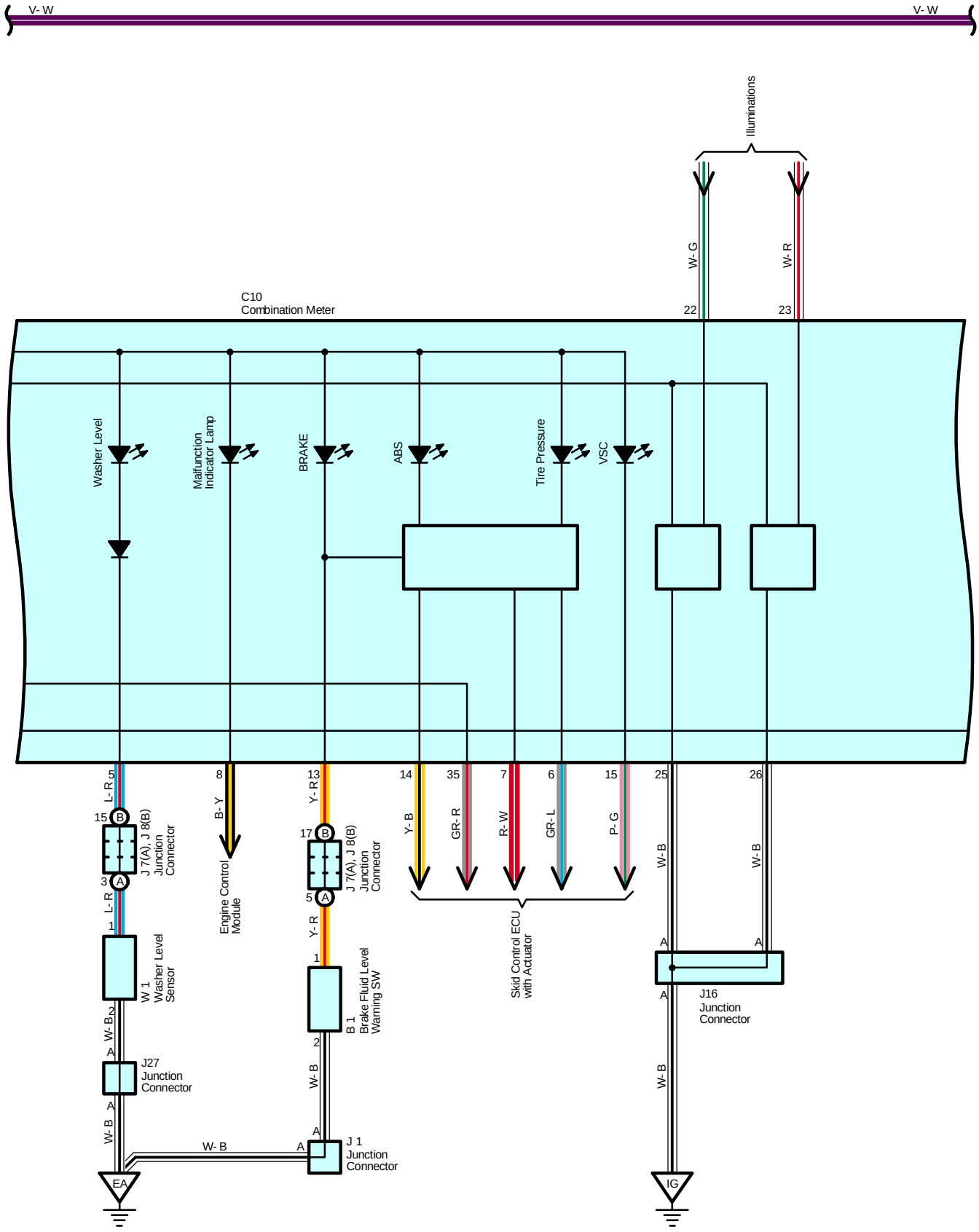
: Ground Points

Code	See Page	Ground Points Location
IF	46	Instrument Panel Brace LH

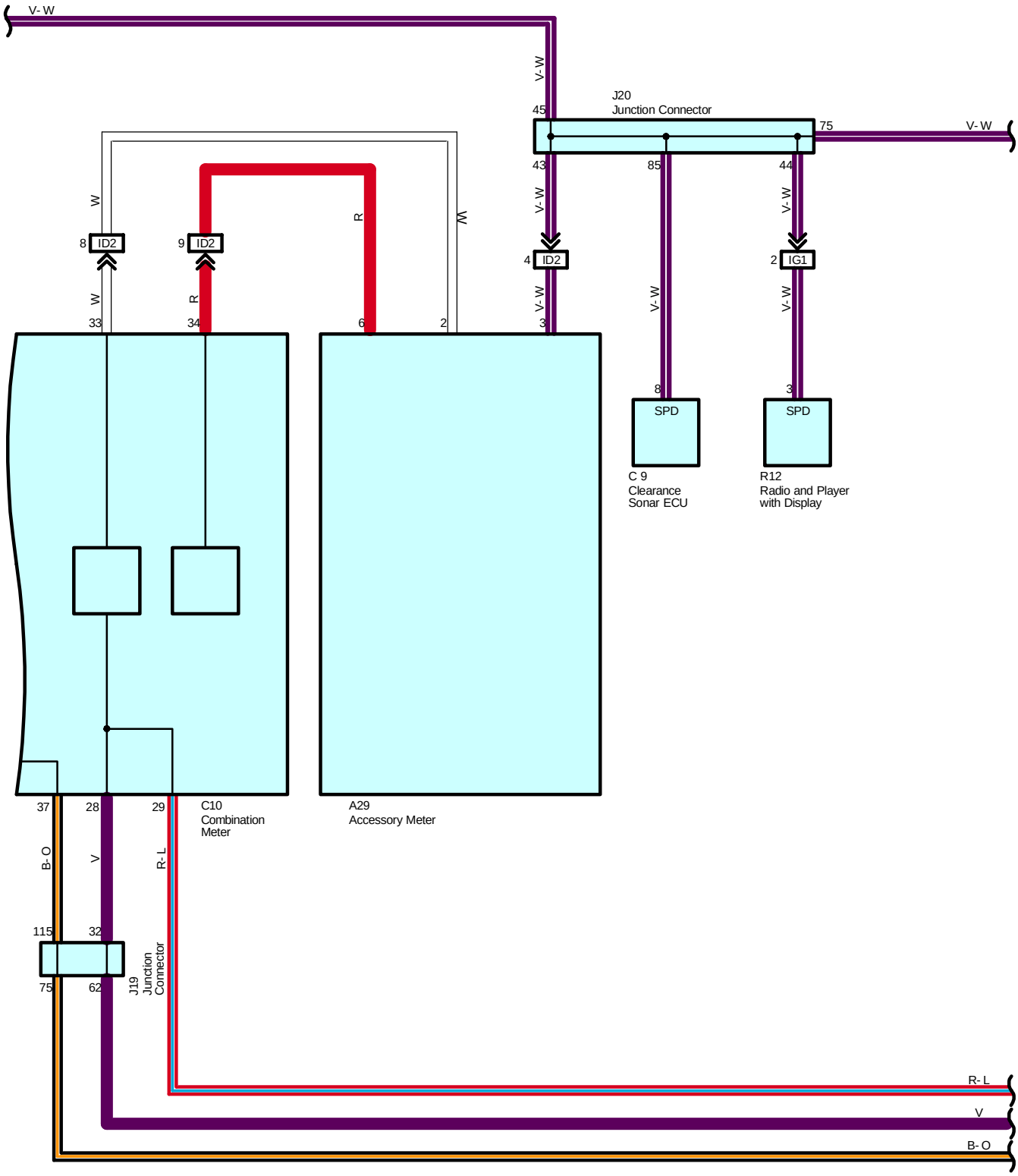

From Power Source System (See Page 58)
10A
ECU- B
7. 5A
GAUGE2
8 2C
25 1H
W- L
24 1C
7 1L
W- L
54
34
J19
Junction
Connector
W- L
B- R
C10
Combination Meter
12
32
Tachometer
Speedometer
Fuel
Temp.
Illumination
ODO/TRIP
Buzzer
10
30
38
BR- B
Y- G
7 A
8 A
J 9(A), J10(B)
Junction
Connector
15 B
16 B
BR
BR- B
Y- G
1 BC1
4 BC1
BR- B
Y- G
3
2
F20
Fuel Sender
IF

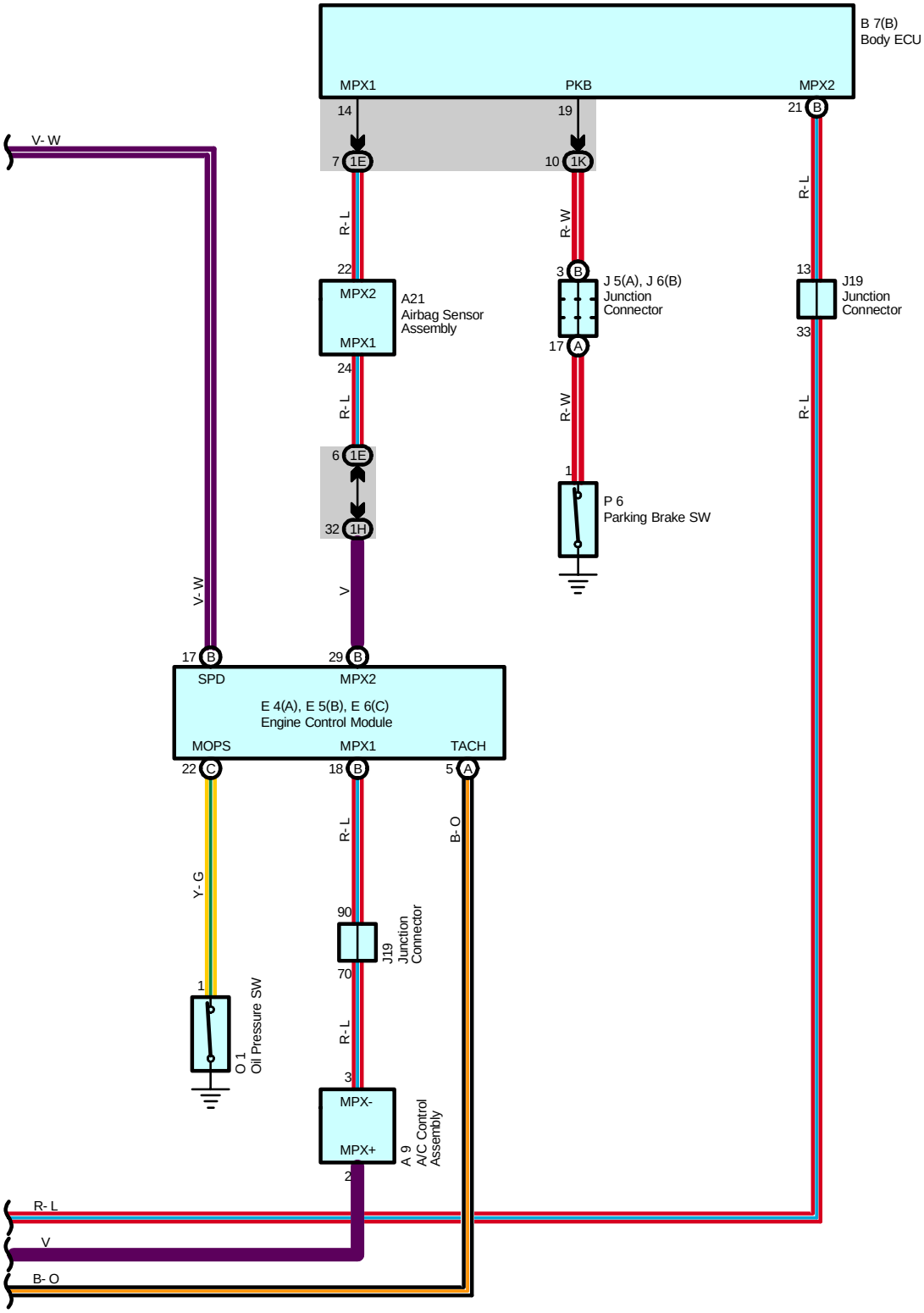

V-W
Turn Signal Flasher
V-W
G-B
G-Y
36
21
16
C10
Combination Meter
Turn LH
Turn RH
MAINT REQD
P
R
N
D
4
3
2


V- W
V- W
C10
Combination Meter
L
Fuel
Charge
SRS
Seat Belt
Oil Pressure
CRUISE
NORM.
READY
Cruise Check
TRAC OFF
Slip
High Beam
Door


V- W
V- W
Illuminations
W- G
W- R
C10
Combination Meter
22
23
Washer Level
Malfunction Indicator Lamp
BRAKE
ABS
Tire Pressure
VSC
L- R
B- Y
Y- R
Y- B
GR- R
R- W
GR- L
P- G
W- B
W- B
15
3
1
8
13
17
5
14
35
7
6
15
25
26
J 7(A), J 8(B) Junction Connector
W 1 Washer Level Sensor
Engine Control Module
B 1 Brake Fluid Level Warning SW
Skid Control ECU with Actuator
J16 Junction Connector
J27 Junction Connector
J 1 Junction Connector
EA
IG

Combination Meter




B 7(B)
Body ECU
MPX1
PKB
MPX2
14
19
21
7 1E
10 1K
V- W
R- L
R- W
R- L
22
3 B
13
MPX2
A21
Airbag Sensor
Assembly
MPX1
J 5(A), J 6(B)
Junction
Connector
17 A
J19
Junction
Connector
33
24
R- W
R- L
R- L
6 1E
1
32 1H
P 6
Parking Brake SW
V- W
V
17 B
29 B
SPD
MPX2
E 4(A), E 5(B), E 6(C)
Engine Control Module
MOPS
MPX1
TACH
22 C
18 B
5 A
R- L
B- O
Y- G
90
J19
Junction
Connector
70
1
O 1
Oil Pressure SW
R- L
3
MPX-
MPX+
A 9
A/C Control
Assembly
2
R- L
V
B- O

Combination Meter

Service Hints

C10 Combination Meter

32-Ground : Approx. 12 volts with the ignition SW at ON position
12-Ground : Always approx. 12 volts
25, 26, 30-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	34	E6 C	35	J16	36
A21	34	F20	38	J19	36
A29	38	J1	33	J20	36
B1	32	J5 A	36	J27	36
B7 B	34	J6 B	36	O1	33
C9	35	J7 A	36	P6	37
C10	35	J8 B	36	R12	37
E4 A	35	J9 A	36	W1	33
E5 B	35	J10 B	36		

: Junction Block and Wire Harness Connector

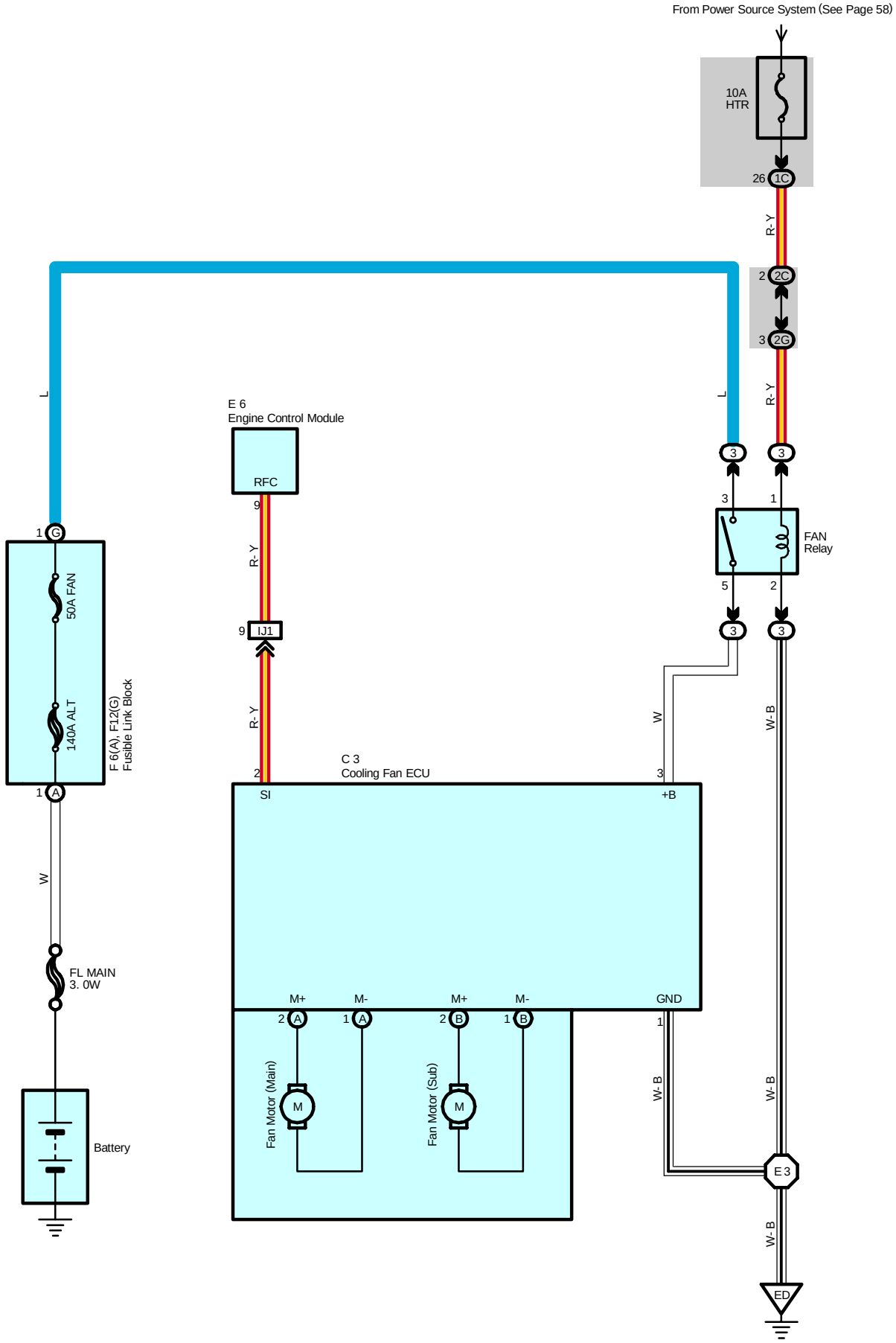
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
IG1	46	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Brace RH)
BC1	50	Fuel Gauge Wire and Floor No.1 Wire (Near the Fuel Tank)

: Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel


From Power Source System (See Page 58)
10A
HTR
26
1C
R- Y
2
2C
3
2G
R- Y
L
L
E 6
Engine Control Module
RFC
9
R- Y
9
IJ1
R- Y
2
SI
C 3
Cooling Fan ECU
3
+B
W
W- B
1
G
50A FAN
140A ALT
F 6(A), F12(G)
Fusible Link Block
1
A
W
FL MAIN
3. 0W
Battery
M+
M-
M+
M-
GND
2
A
1
A
2
B
1
B
Fan Motor (Main)
M
Fan Motor (Sub)
M
1
W- B
W- B
W- B
3
3
3
1
FAN
Relay
5
2
3
3
E 3
ED

Service Hints

C3 Cooling Fan ECU

3-Ground : Approx. 12 volts with the ignition SW at ON position

1-Ground : Always continuity

: Parts Location

Code	See Page	Code		See Page	Code	See Page
C3	32	F6	A	32		
E6	35	F12	G	32		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IJ1	48	Engine Wire and Engine Room Main Wire (Right Kick Panel)

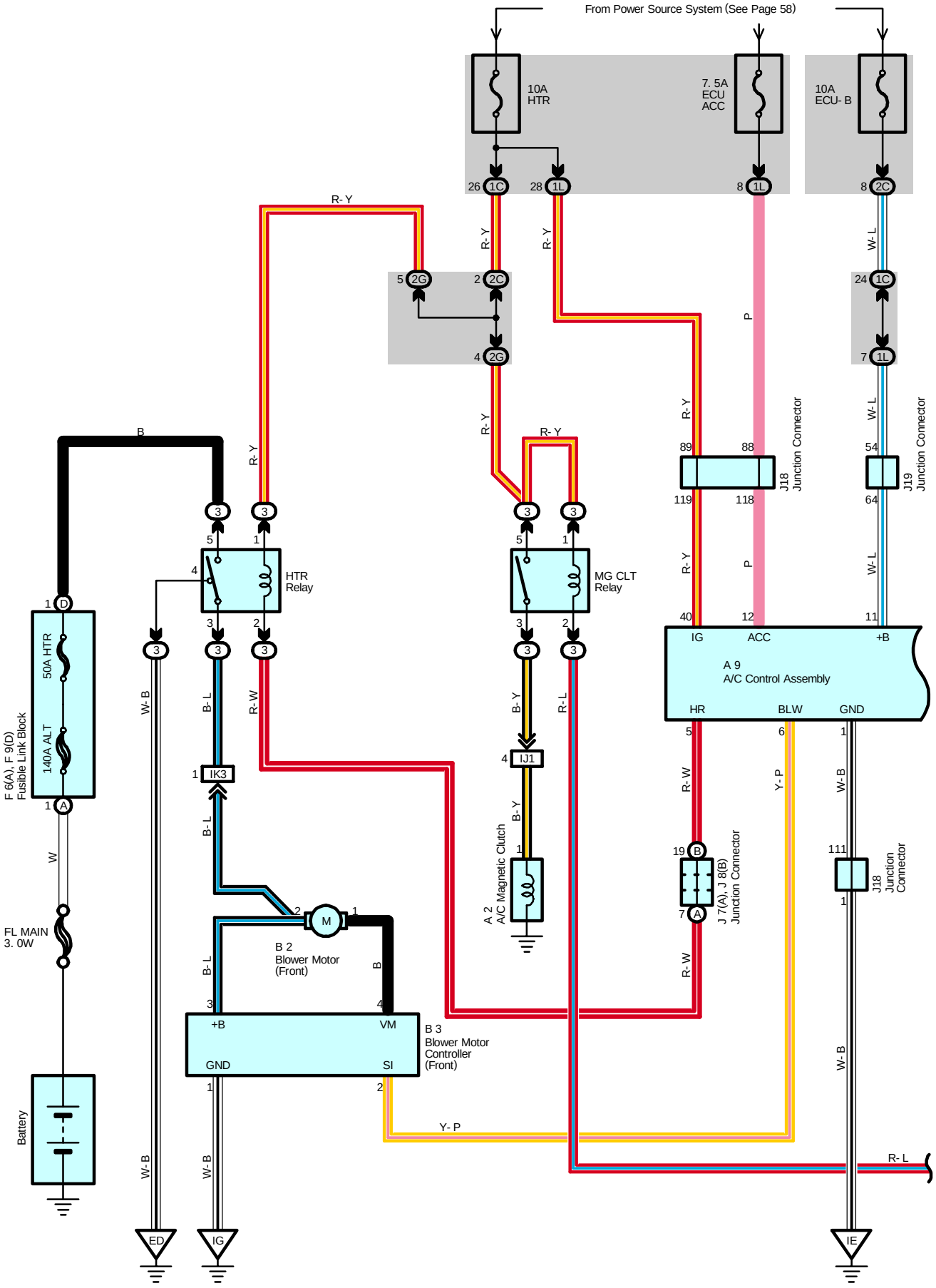
: Ground Points

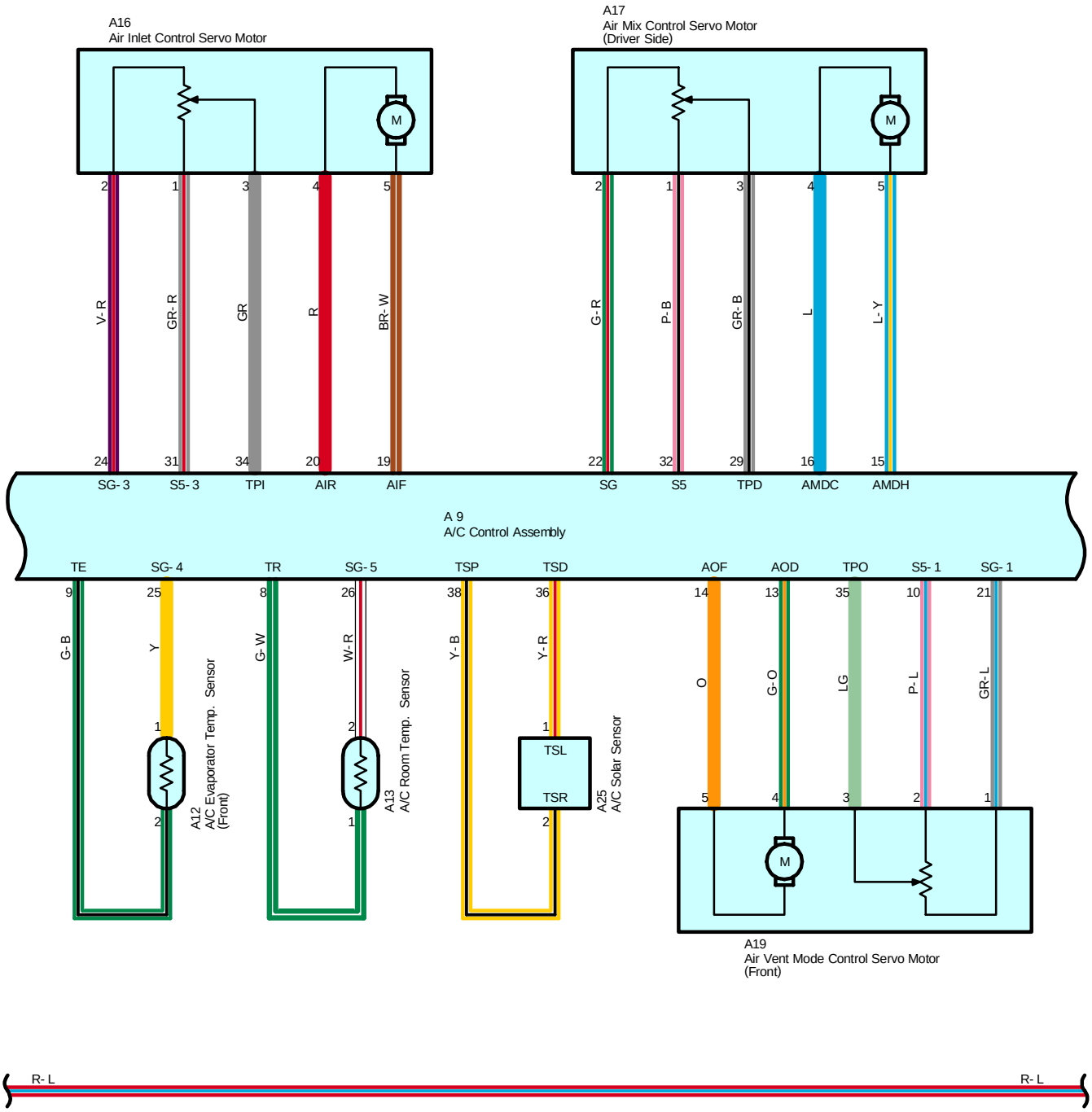
Code	See Page	Ground Points Location
ED	44	Front Side of the Left Fender Apron

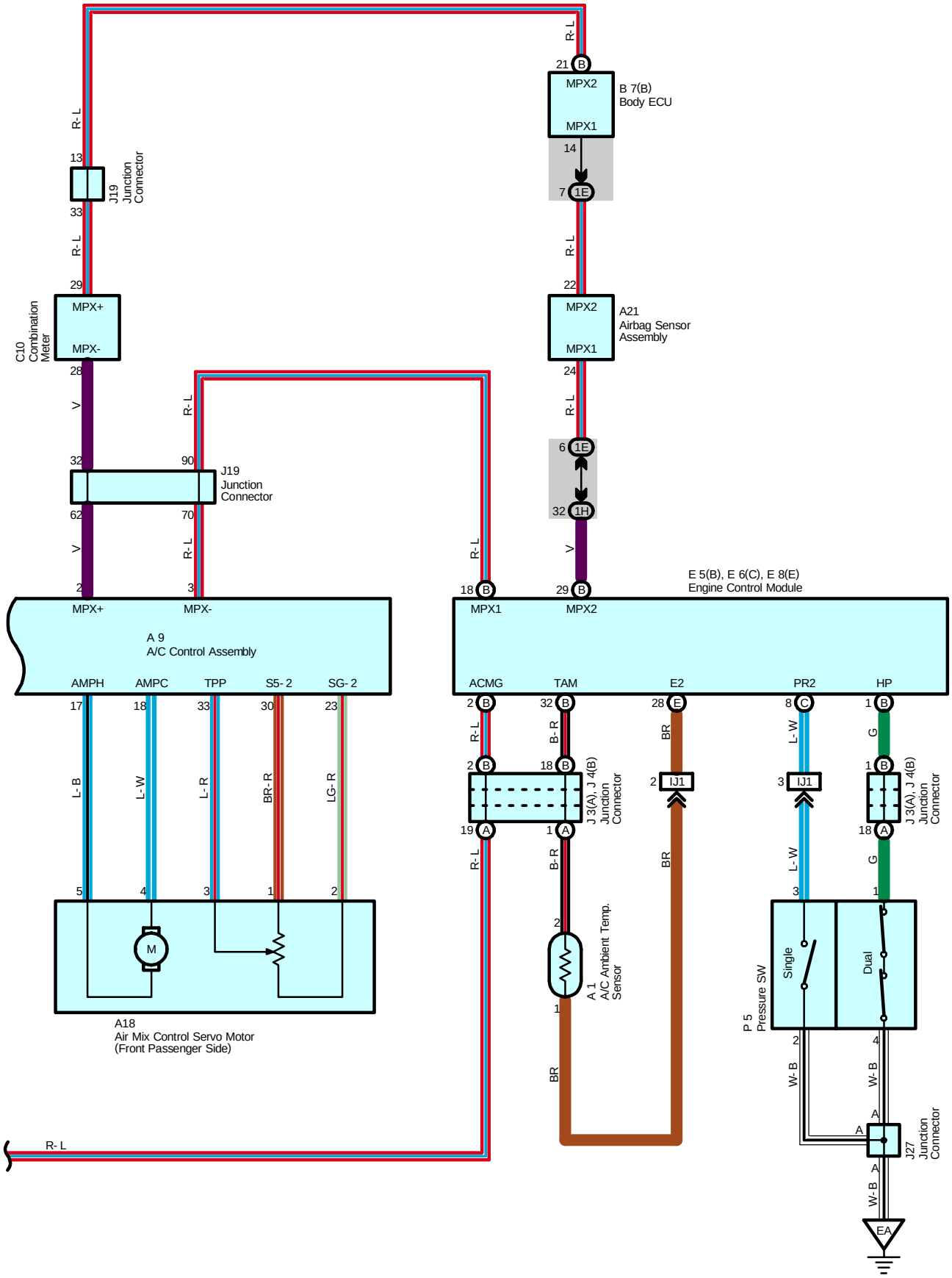
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E3	44	Engine Room Main Wire			

Automatic Air Conditioning (Front)




A16
Air Inlet Control Servo Motor
A17
Air Mix Control Servo Motor
(Driver Side)
M
M
2
1
3
4
5
V- R
GR- R
GR
R
BR- W
G- R
P- B
GR- B
L
L- Y
24
31
34
20
19
22
32
29
16
15
SG- 3
S5- 3
TPI
AIR
AIF
SG
S5
TPD
AMDC
AMDH
A 9
A/C Control Assembly
TE
SG- 4
TR
SG- 5
TSP
TSD
AOF
AOD
TPO
S5- 1
SG- 1
9
25
8
26
38
36
14
13
35
10
21
G- B
Y
G- W
W- R
Y- B
Y- R
O
G- O
LG
P- L
GR- L
1
2
1
2
1
2
5
4
3
2
1
A12
A/C Evaporator Temp. Sensor
(Front)
A13
A/C Room Temp. Sensor
TSL
TSR
A25
A/C Solar Sensor
M
A19
Air Vent Mode Control Servo Motor
(Front)
R- L
R- L


R- L
21 B
MPX2
MPX1
B 7(B)
Body ECU
14
7 1E
R- L
22
MPX2
MPX1
A21
Airbag Sensor
Assembly
24
R- L
6 1E
32 1H
V
29 B
MPX1
MPX2
E 5(B), E 6(C), E 8(E)
Engine Control Module
R- L
13
J19
Junction
Connector
33
R- L
29
MPX+
MPX-
C10
Combination
Meter
28
V
32
90
J19
Junction
Connector
62
70
V
R- L
2
3
MPX+
MPX-
A 9
A/C Control Assembly
AMPH
AMPC
TPP
S5- 2
SG- 2
17
18
33
30
23
L- B
L- W
L- R
BR- R
LG- R
5
4
3
1
2
M
A18
Air Mix Control Servo Motor
(Front Passenger Side)
R- L
ACMG
TAM
E2
2 B
32 B
28 E
R- L
B- R
BR
2 B
18 B
2 IJ1
J 3(A), J 4(B)
Junction
Connector
19 A
1 A
R- L
B- R
BR
2
1
A 1
A/C Ambient Temp.
Sensor
BR
PR2
HP
8 C
1 B
L- W
G
3 IJ1
1 B
J 3(A), J 4(B)
Junction
Connector
L- W
G
3
1
18 A
Single
Dual
P 5
Pressure SW
2
4
W- B
W- B
A
A
J27
Junction
Connector
A
W- B
EA

Service Hints

A9 A/C Control Assembly

11-Ground : Always approx. 12 volts
40-Ground : Approx. 12 volts with the ignition SW at ON position
12-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
1-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	32	A25	34	J3 A	36
A2	32	B2	34	J4 B	36
A9	34	B3	34	J7 A	36
A12	34	B7 B	34	J8 B	36
A13	34	C10	35	J18	36
A16	34	E5 B	35	J19	36
A17	34	E6 C	35	J27	36
A18	34	E8 E	35	P5	33
A19	34	F6 A	32		
A21	34	F9 D	32		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

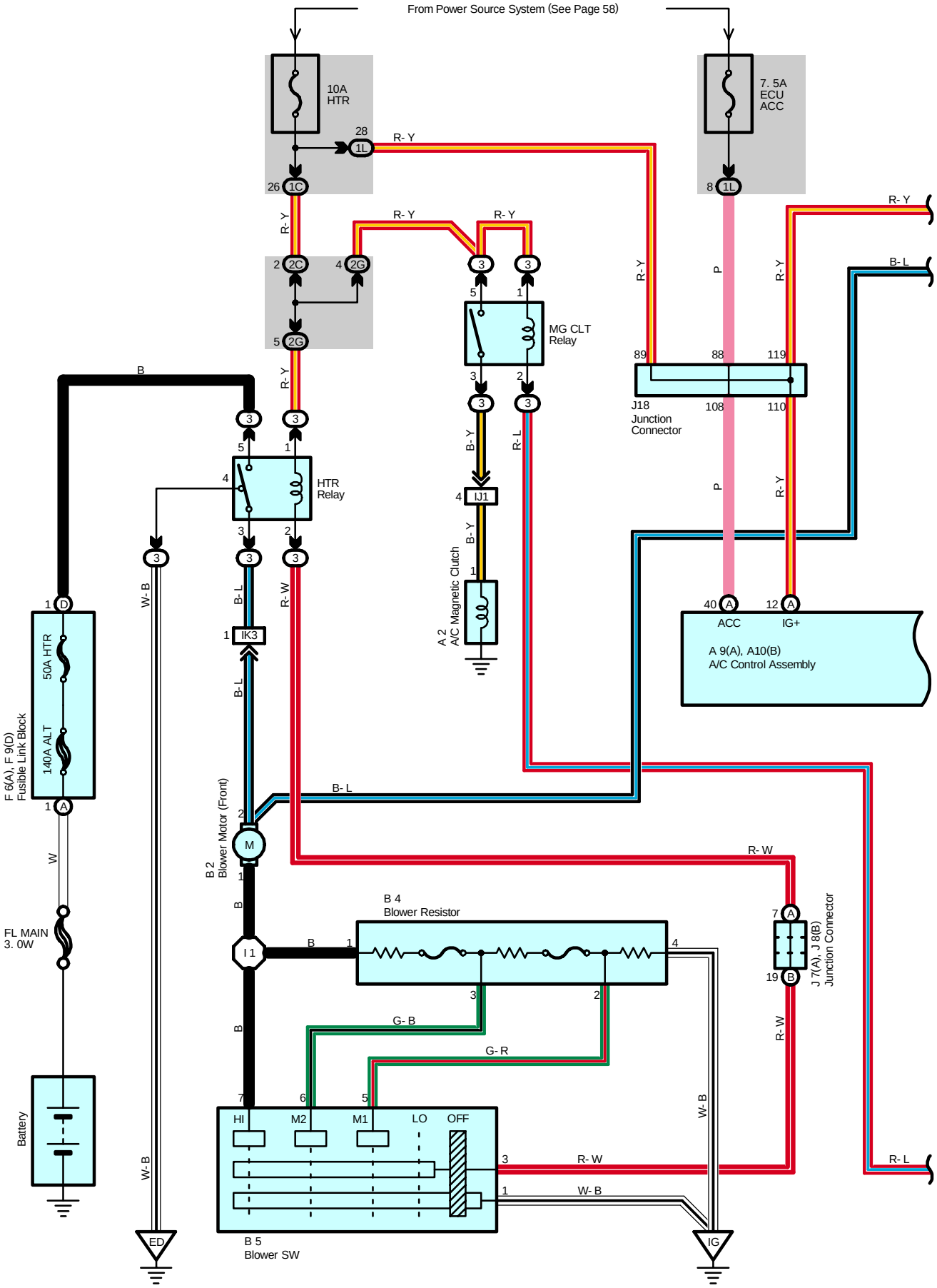
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1L	27	
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		

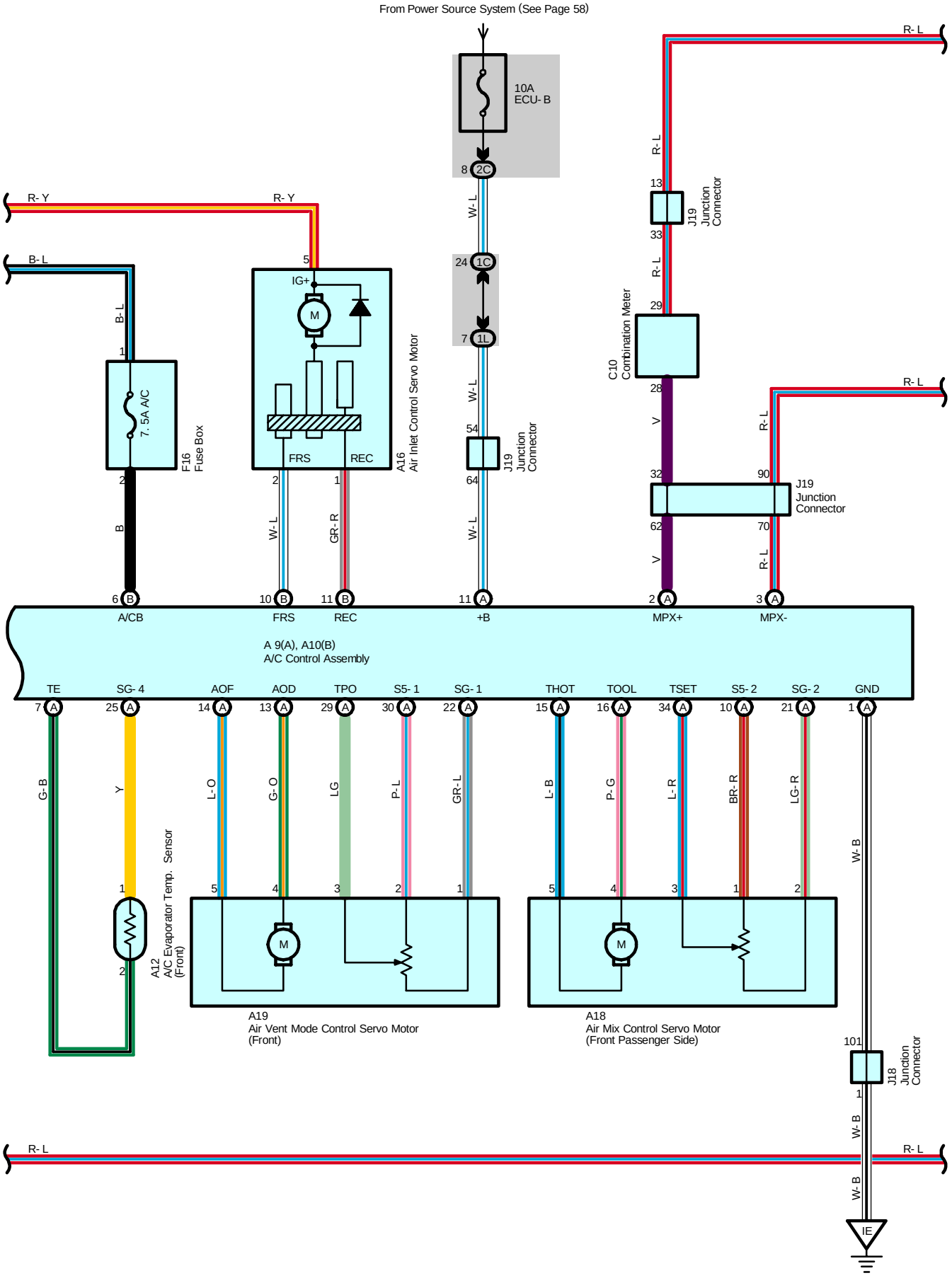
: Connector Joining Wire Harness and Wire Harness

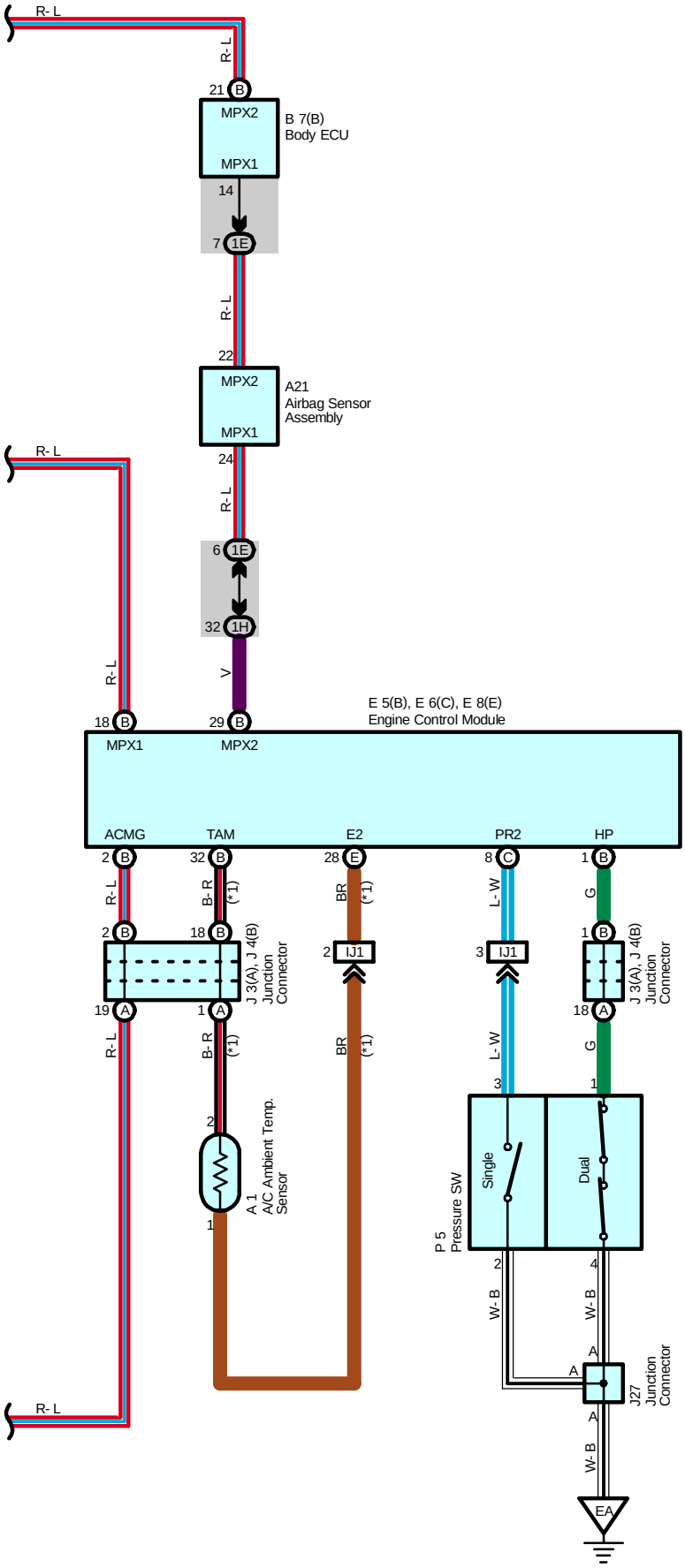
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IJ1	48	Engine Wire and Engine Room Main Wire (Right Kick Panel)
IK3	48	Engine Room Main Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
IG	46	Right Kick Panel


From Power Source System (See Page 58)
10A HTR
7. 5A ECU ACC
MG CLT Relay
HTR Relay
J18 Junction Connector
A 2 A/C Magnetic Clutch
A 9(A), A10(B) A/C Control Assembly
ACC
IG+
F 6(A), F 9(D) Fusible Link Block
50A HTR
140A ALT
FL MAIN 3. 0W
Battery
B 2 Blower Motor (Front)
B 4 Blower Resistor
J 7(A), J 8(B) Junction Connector
B 5 Blower SW
HI
M2
M1
LO
OFF
R- Y
B- L
W- B
R- W
G- B
G- R
B- Y
R- L
P
W
B
ED
IG


From Power Source System (See Page 58)
10A
ECU- B
8 2C
W- L
24 1C
7 1L
W- L
54
J19
Junction
Connector
64
W- L
11 A
+B
R- L
13
J19
Junction
Connector
33
R- L
29
C10
Combination Meter
28
V
32
62
V
2 A
MPX+
R- L
90
J19
Junction
Connector
70
R- L
3 A
MPX-
R- Y
R- Y
B- L
5
IG+
M
FRS
REC
A16
Air Inlet Control Servo Motor
B- L
1
7. 5A A/C
F16
Fuse Box
2
B
6 B
A/CB
2
W- L
10 B
FRS
1
GR- R
11 B
REC
A 9(A), A10(B)
A/C Control Assembly
TE
SG- 4
AOF
AOD
TPO
S5- 1
SG- 1
THOT
TOOL
TSET
S5- 2
SG- 2
GND
7 A
25 A
14 A
13 A
29 A
30 A
22 A
15 A
16 A
34 A
10 A
21 A
1 A
G- B
Y
L- O
G- O
LG
P- L
GR- L
L- B
P- G
L- R
BR- R
LG- R
W- B
1
2
A12
A/C Evaporator Temp. Sensor
(Front)
5
4
3
2
1
5
4
3
1
2
M
M
A19
Air Vent Mode Control Servo Motor
(Front)
A18
Air Mix Control Servo Motor
(Front Passenger Side)
101
J18
Junction
Connector
1
W- B
W- B
R- L
R- L
IE



* 1 : w/ A/C Ambient Temp. Sensor

Service Hints

A9 (A) A/C Control Assembly

(A) 11-Ground : Always approx. 12 volts
(A) 12-Ground : Approx. 12 volts with the ignition SW at ON position
(A) 40-Ground : Approx. 12 volts with the ignition SW at ACC or ON position
(A) 1-Ground : Always continuity

HTR Relay

5-3 : Closed with the ignition SW at ON position and the blower SW on

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	32	B4	34	J3 A	36
A2	32	B5	34	J4 B	36
A9 A	34	B7 B	34	J7 A	36
A10 B	34	C10	35	J8 B	36
A12	34	E5 B	35	J18	36
A16	34	E6 C	35	J19	36
A18	34	E8 E	35	J27	36
A19	34	F6 A	32	P5	33
A21	34	F9 D	32		
B2	34	F16	35		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1L	27	
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		

: Connector Joining Wire Harness and Wire Harness

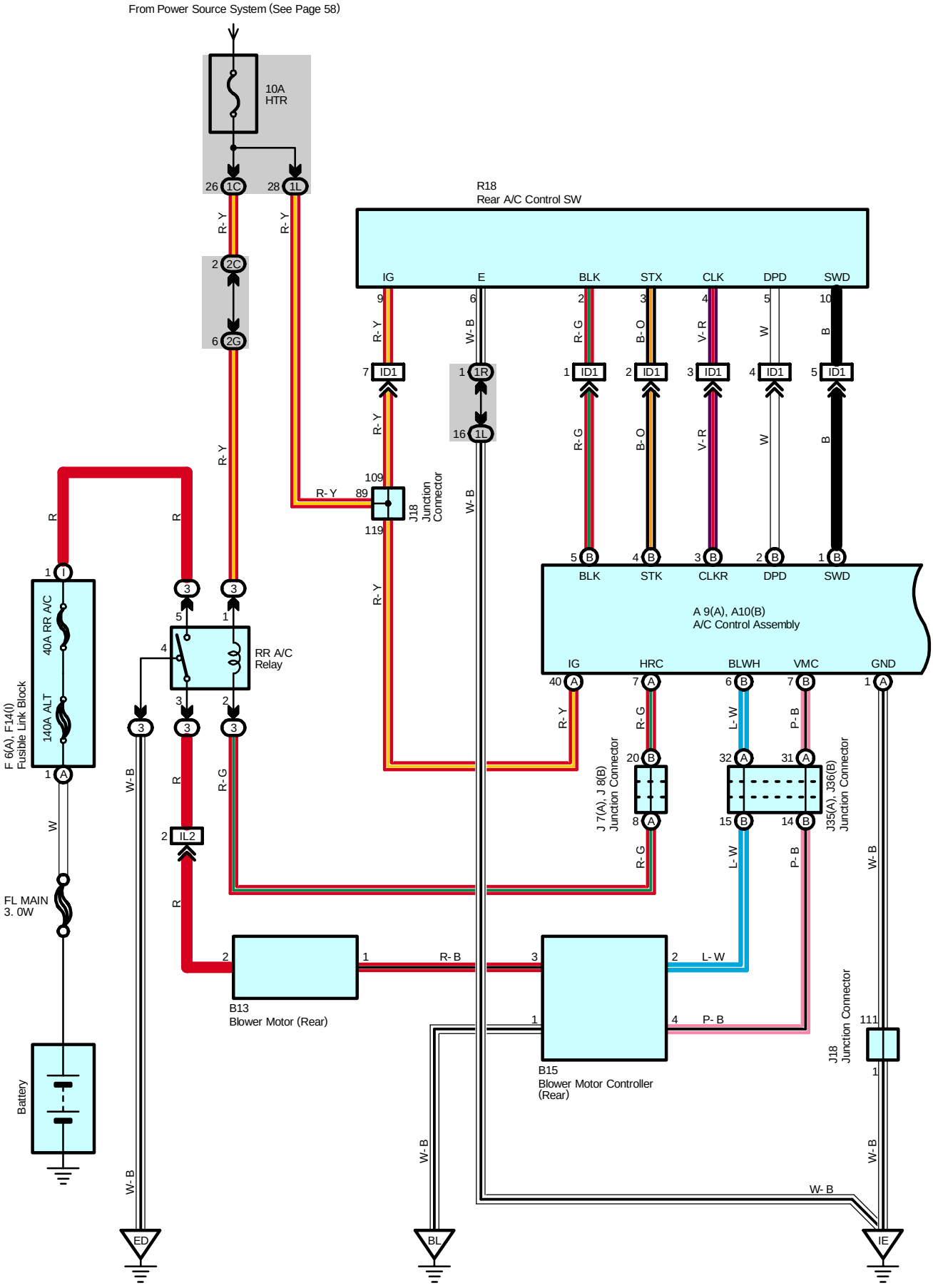
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IJ1	48	Engine Wire and Engine Room Main Wire (Right Kick Panel)
IK3	48	Engine Room Main Wire and Instrument Panel Wire (Right Kick Panel)

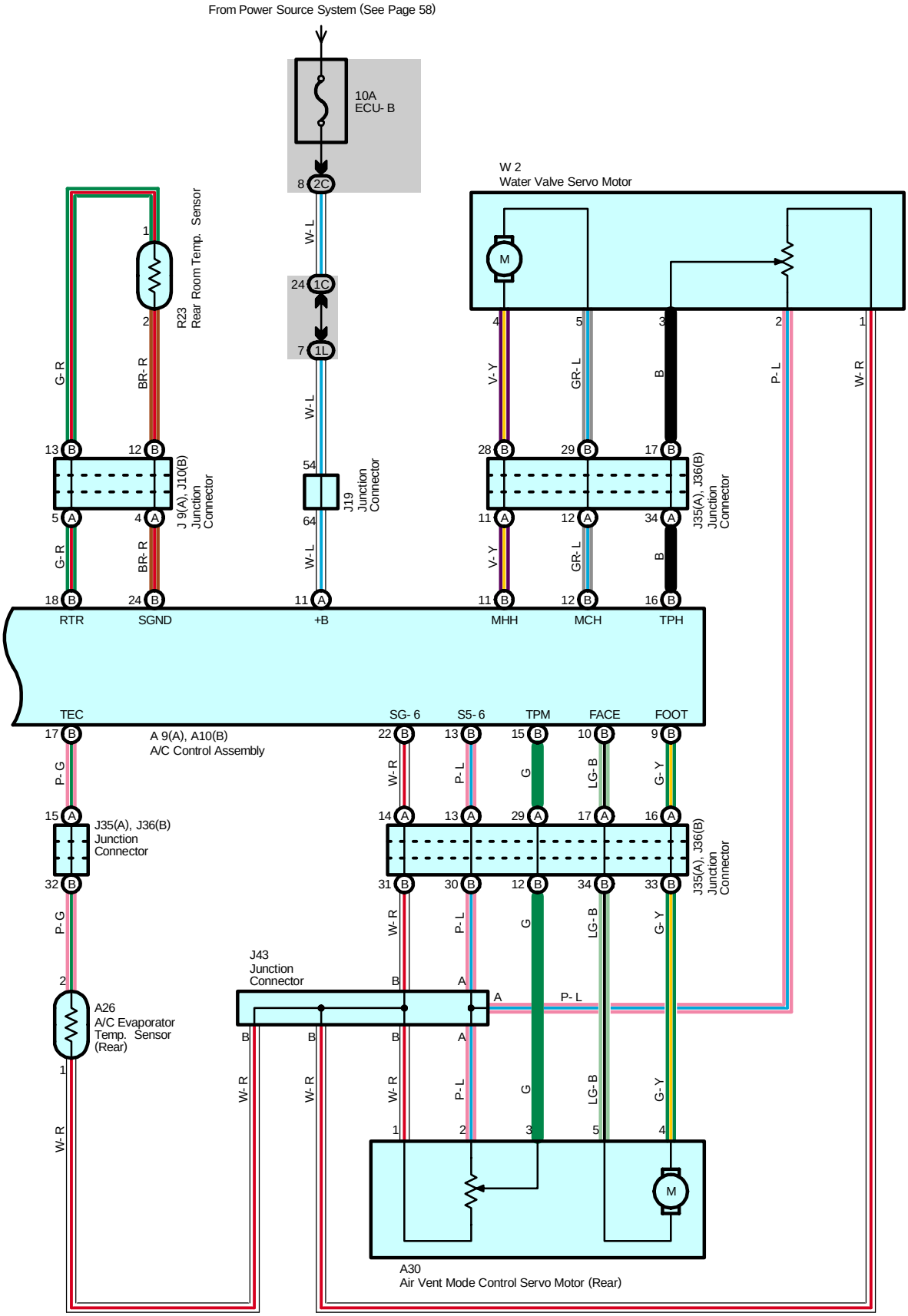
: Ground Points

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
IG	46	Right Kick Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I1	48	Instrument Panel Wire			


From Power Source System (See Page 58)
10A
HTR
26 1C
28 1L
R- Y
2 2C
6 2G
R18
Rear A/C Control SW
IG
E
BLK
STX
CLK
DPD
SWD
9
6
2
3
4
5
10
7 ID1
1 1R
1 ID1
2 ID1
3 ID1
4 ID1
5 ID1
16 1L
R- G
B- O
V- R
W
B
109
89
119
J18
Junction
Connector
W- B
5 B
4 B
3 B
2 B
1 B
BLK
STK
CLKR
DPD
SWD
A 9(A), A10(B)
A/C Control Assembly
IG
HRC
BLWH
VMC
GND
40 A
7 A
6 B
7 B
1 A
R
1 I
3
5
1
4
RR A/C
Relay
2
IL2
40A RR A/C
140A ALT
F 6(A), F14(I)
Fusible Link Block
1 A
W
FL MAIN
3. 0W
Battery
W- B
R- B
L- W
P- B
20 B
8 A
32 A
15 B
31 A
14 B
J 7(A), J 8(B)
Junction Connector
J35(A), J36(B)
Junction Connector
B13
Blower Motor (Rear)
B15
Blower Motor Controller
(Rear)
111
ED
BL
IE


From Power Source System (See Page 58)
10A
ECU- B
8 2C
W- L
24 1C
7 1L
W- L
54
J19
Junction
Connector
64
W- L
11 A
+B
W 2
Water Valve Servo Motor
M
4
5
3
2
1
V- Y
GR- L
B
P- L
W- R
28 B
29 B
17 B
J35(A), J36(B)
Junction
Connector
11 A
12 A
34 A
V- Y
GR- L
B
11 B
12 B
16 B
MHH
MCH
TPH
1
2
R23
Rear Room Temp. Sensor
G- R
BR- R
13 B
12 B
J 9(A), J10(B)
Junction
Connector
5 A
4 A
G- R
BR- R
18 B
24 B
RTR
SGND
TEC
A 9(A), A10(B)
A/C Control Assembly
SG- 6
S5- 6
TPM
FACE
FOOT
17 B
P- G
15 A
J35(A), J36(B)
Junction
Connector
32 B
P- G
2
A26
A/C Evaporator
Temp. Sensor
(Rear)
1
W- R
22 B
W- R
13 B
P- L
15 B
G
10 B
LG- B
9 B
G- Y
14 A
13 A
29 A
17 A
16 A
J35(A), J36(B)
Junction
Connector
31 B
30 B
12 B
34 B
33 B
W- R
P- L
G
LG- B
G- Y
J43
Junction
Connector
B
A
A
P- L
B
B
B
A
W- R
W- R
W- R
P- L
G
LG- B
G- Y
1
2
3
5
4
M
A30
Air Vent Mode Control Servo Motor (Rear)

Automatic Air Conditioning (Rear)

Service Hints

A9 (A) A/C Control Assembly

(A) 11-Ground : Always approx. 12 volts
(A) 40-Ground : Approx. 12 volts with the ignition SW at ON position
(A) 1-Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A9	A	34	F14	I	32	J35	A	36
A10	B	34	J7	A	36	J36	B	36
A26		38	J8	B	36	J43		39
A30		38	J9	A	36	R18		40
B13		38	J10	B	36	R23		40
B15		38	J18		36	W2		41
F6	A	32	J19		36			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

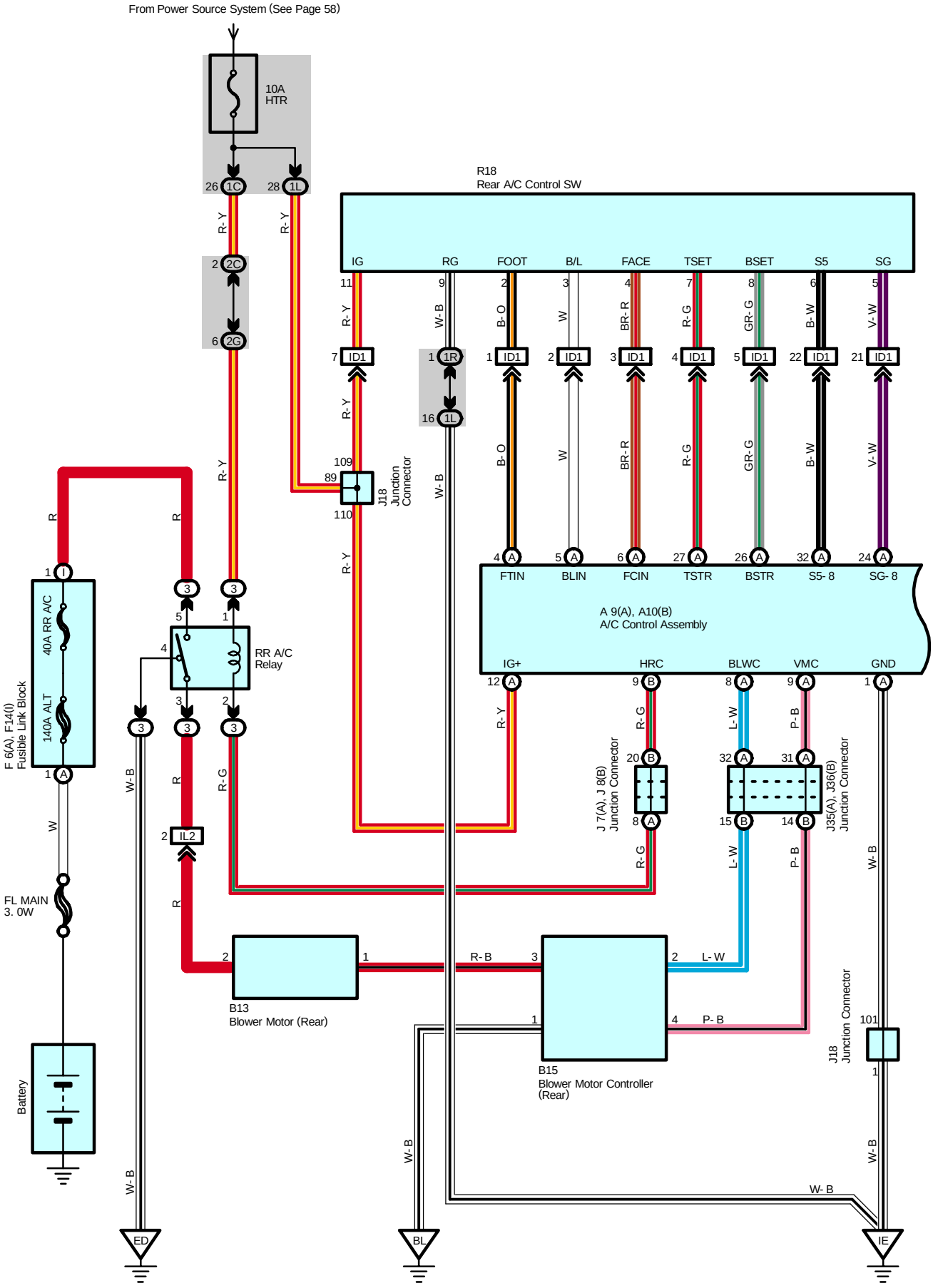
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		

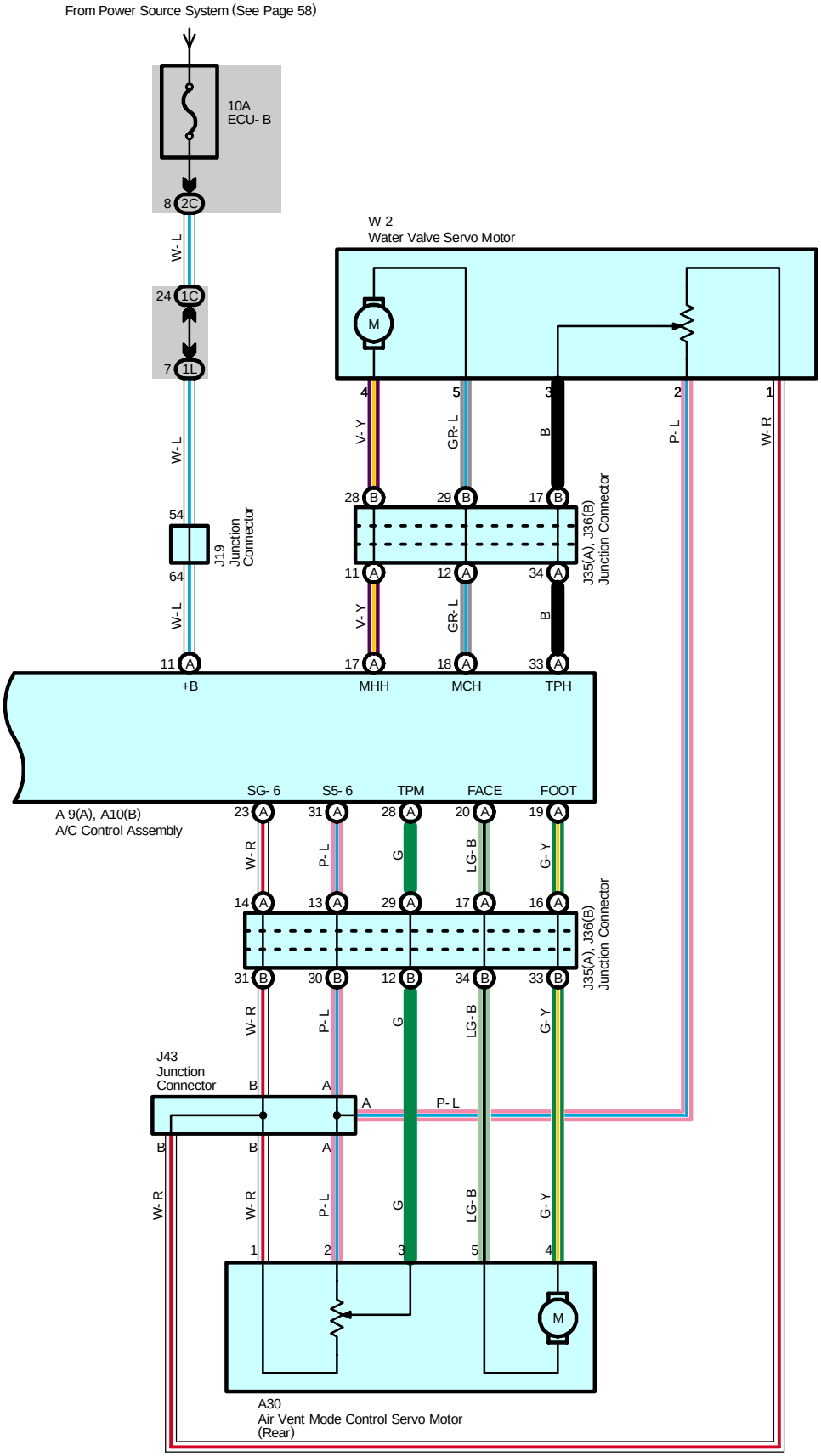
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
IL2	48	Engine Room Main Wire and Floor No.2 Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
BL	50	Right Rear Quarter Panel


From Power Source System (See Page 58)
10A HTR
26 1C
28 1L
2 2C
6 2G
R18
Rear A/C Control SW
IG
RG
FOOT
B/L
FACE
TSET
BSET
S5
SG
R- Y
W- B
B- O
W
BR- R
R- G
GR- G
B- W
V- W
ID1
1R
16 1L
109
89
110
J18 Junction Connector
F 6(A), F14(I) Fusible Link Block
40A RR A/C
140A ALT
RR A/C Relay
IL2
FL MAIN 3. 0W
Battery
FTIN
BLIN
FCIN
TSTR
BSTR
S5- 8
SG- 8
A 9(A), A10(B)
A/C Control Assembly
IG+
HRC
BLWC
VMC
GND
J 7(A), J 8(B) Junction Connector
J35(A), J36(B) Junction Connector
L- W
P- B
R- B
B13
Blower Motor (Rear)
B15
Blower Motor Controller (Rear)
101
ED
BL
IE


From Power Source System (See Page 58)
10A
ECU- B
8 2C
W- L
24 1C
7 1L
W- L
54
J19
Junction
Connector
64
W- L
11 A
+B
W 2
Water Valve Servo Motor
M
4
5
3
2
1
V- Y
GR- L
B
P- L
W- R
28 B
29 B
17 B
J35(A), J36(B)
Junction Connector
11 A
12 A
34 A
V- Y
GR- L
B
17 A
18 A
33 A
MHH
MCH
TPH
SG- 6
S5- 6
TPM
FACE
FOOT
A 9(A), A10(B)
A/C Control Assembly
23 A
31 A
28 A
20 A
19 A
W- R
P- L
G
LG- B
G- Y
14 A
13 A
29 A
17 A
16 A
J35(A), J36(B)
Junction Connector
31 B
30 B
12 B
34 B
33 B
W- R
P- L
G
LG- B
G- Y
J43
Junction
Connector
B
A
A
P- L
B
B
A
W- R
W- R
P- L
G
LG- B
G- Y
1
2
3
5
4
M
A30
Air Vent Mode Control Servo Motor
(Rear)

Manual Air Conditioning (Rear)

Service Hints

A9 (A) A/C Control Assembly

(A) 11-Ground : Always approx. 12 volts
(A) 12-Ground : Approx. 12 volts with the ignition SW at ON position
(A) 1-Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A9	A	34	F14	I	32	J36	B	36
A10	B	34	J7	A	36	J43		39
A30		38	J8	B	36	R18		40
B13		38	J18		36	W2		41
B15		38	J19		36			
F6	A	32	J35	A	36			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	27	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1L	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2C	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	46	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
IL2	48	Engine Room Main Wire and Floor No.2 Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
BL	50	Right Rear Quarter Panel

ABBREVIATIONS

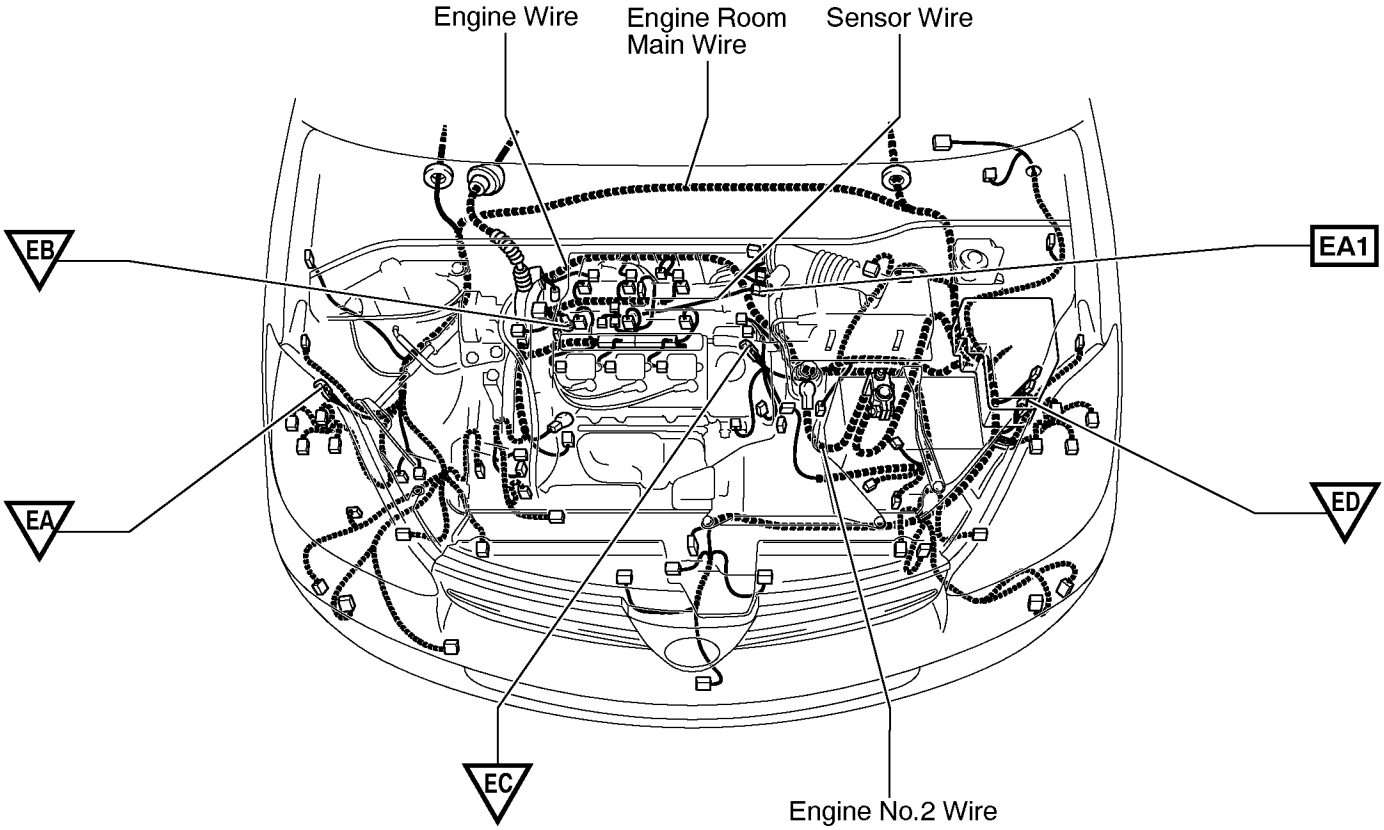
The following abbreviations are used in this manual.

A/C	=	Air Conditioning
A/T	=	Automatic Transaxle
ABS	=	Anti-Lock Brake System
ACIS	=	Acoustic Control Induction System
AICV	=	Air Intake Control Valve
BEAN	=	Body Electronics Area Network
CAN	=	Controller Area Network
EC	=	Electrochromic
ECU	=	Electronic Control Unit
ESA	=	Electronic Spark Advance
EVAP	=	Evaporative Emission
HID	=	High Intensity Discharge
J/B	=	Junction Block
LH	=	Left-Hand
R/B	=	Relay Block
RH	=	Right-Hand
SFI	=	Sequential Multiport Fuel Injection
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
TRAC	=	Traction Control
VSC	=	Vehicle Skid Control
VSV	=	Vacuum Switching Valve
VVT	=	Variable Valve Timing
w/	=	With
w/o	=	Without

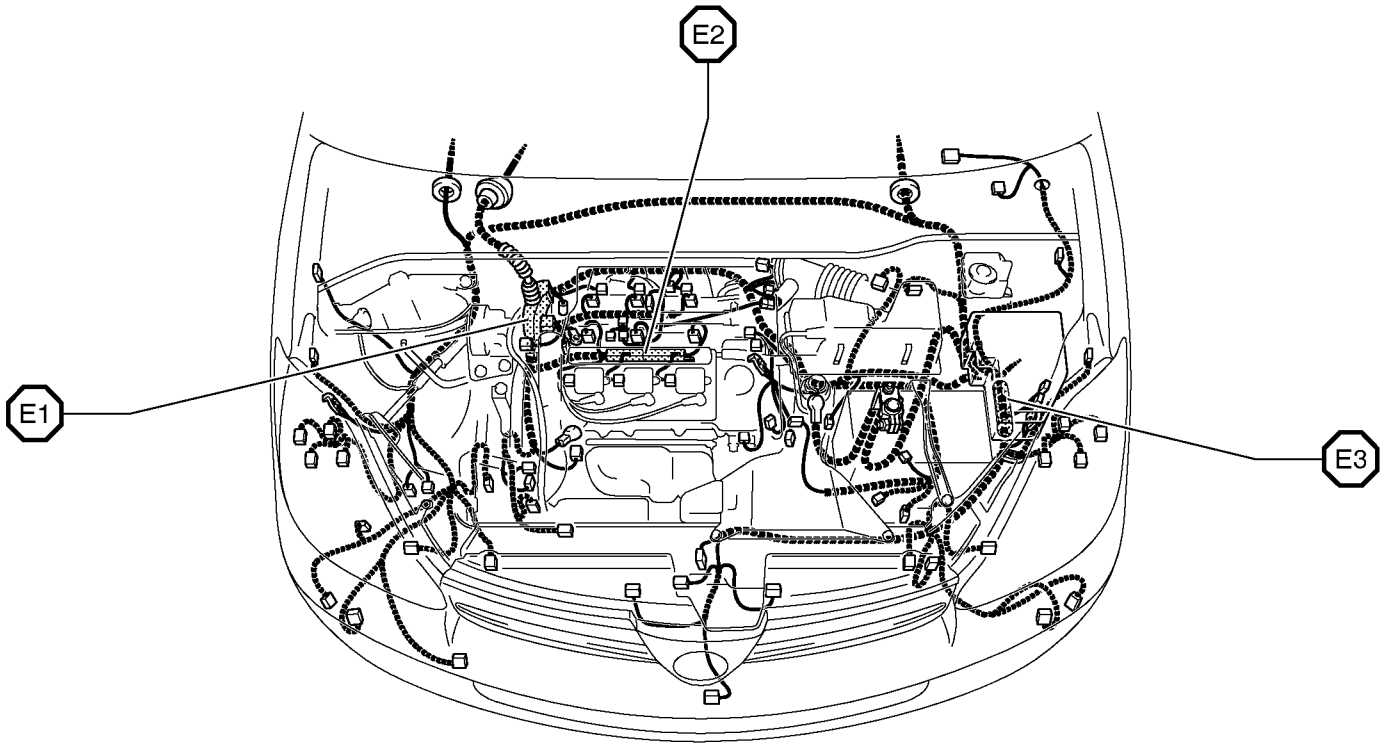
* The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

G ELECTRICAL WIRING ROUTING

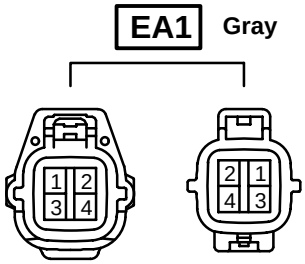
: Location of Connector Joining Wire Harness and Wire Harness
: Location of Ground Points



: Location of Splice Points

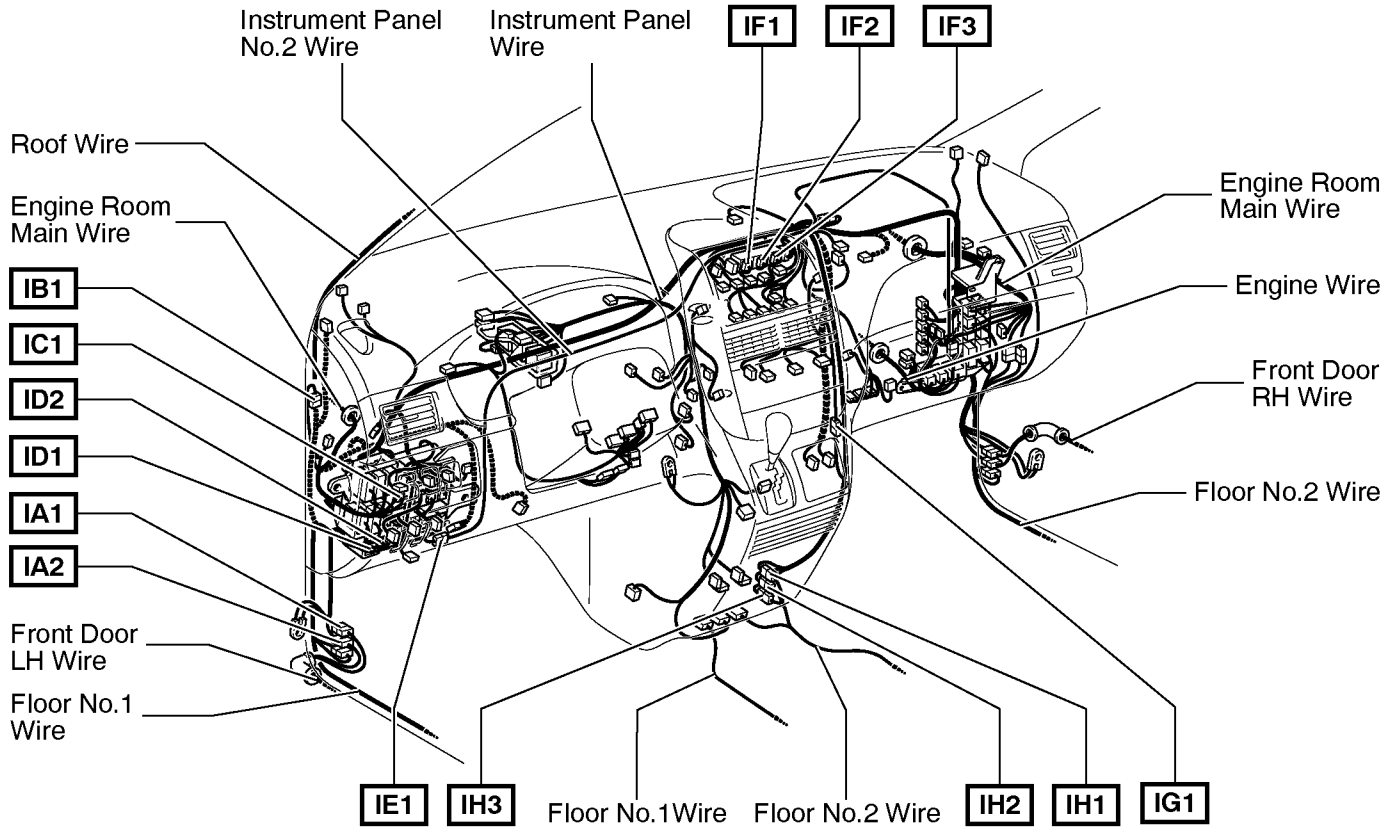


Connector Joining Wire Harness and Wire Harness

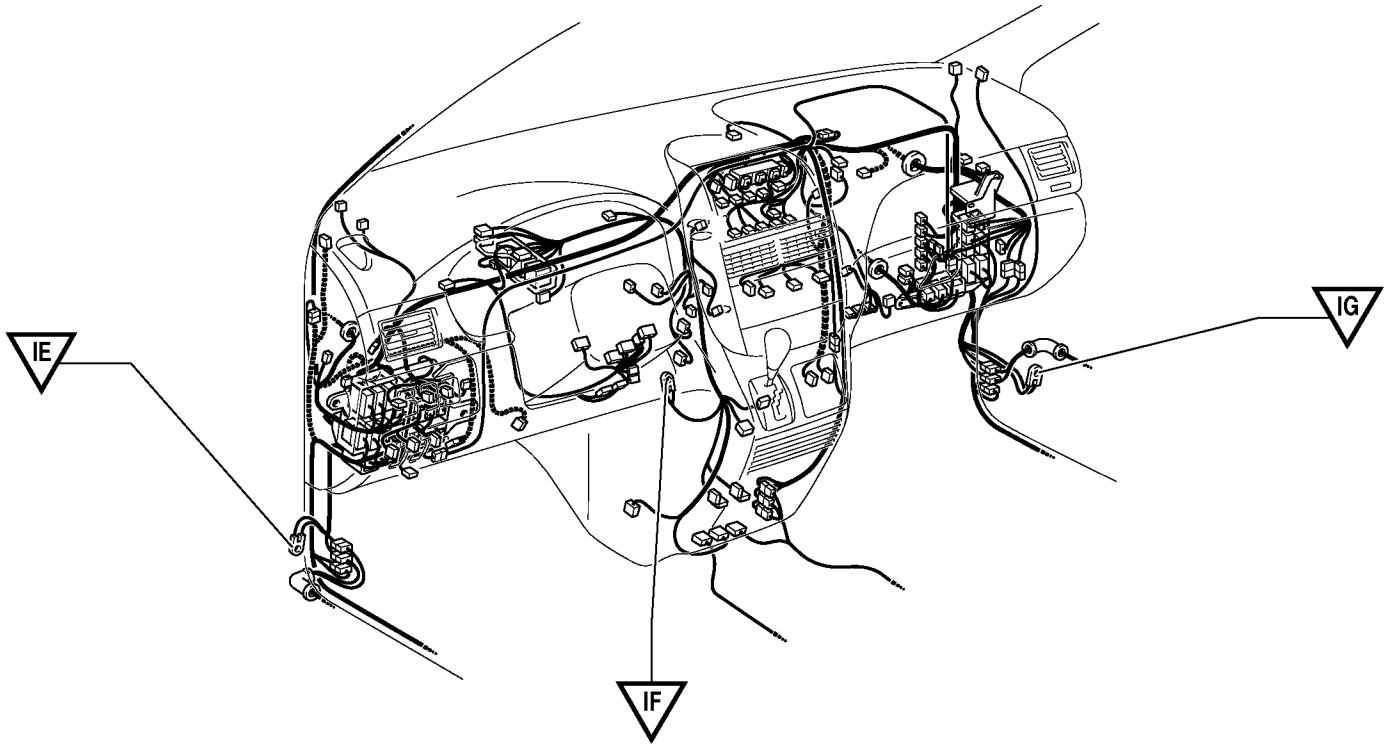


Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Sensor Wire (Near the Cylinder Head of the Left Bank)

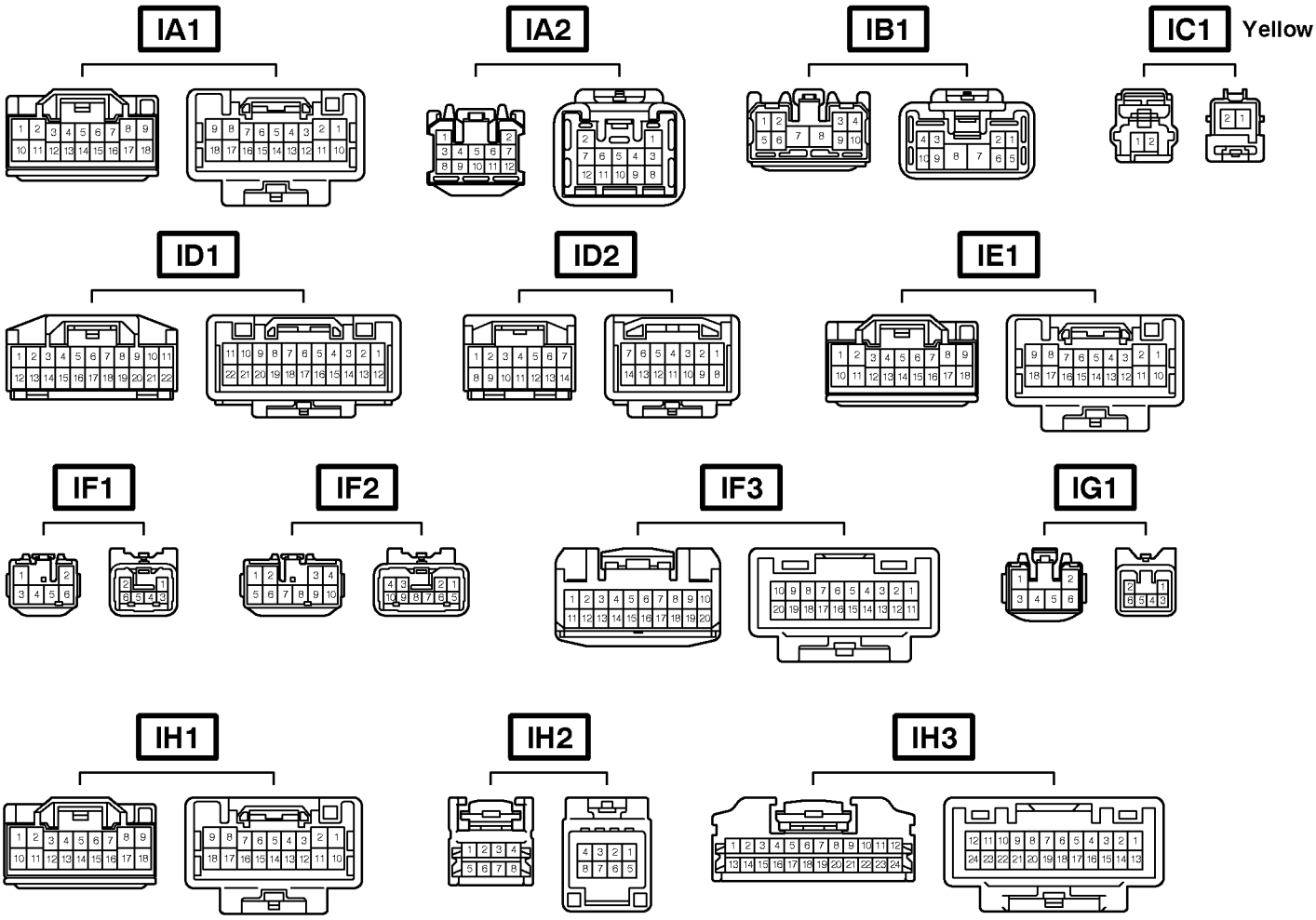
▭ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points

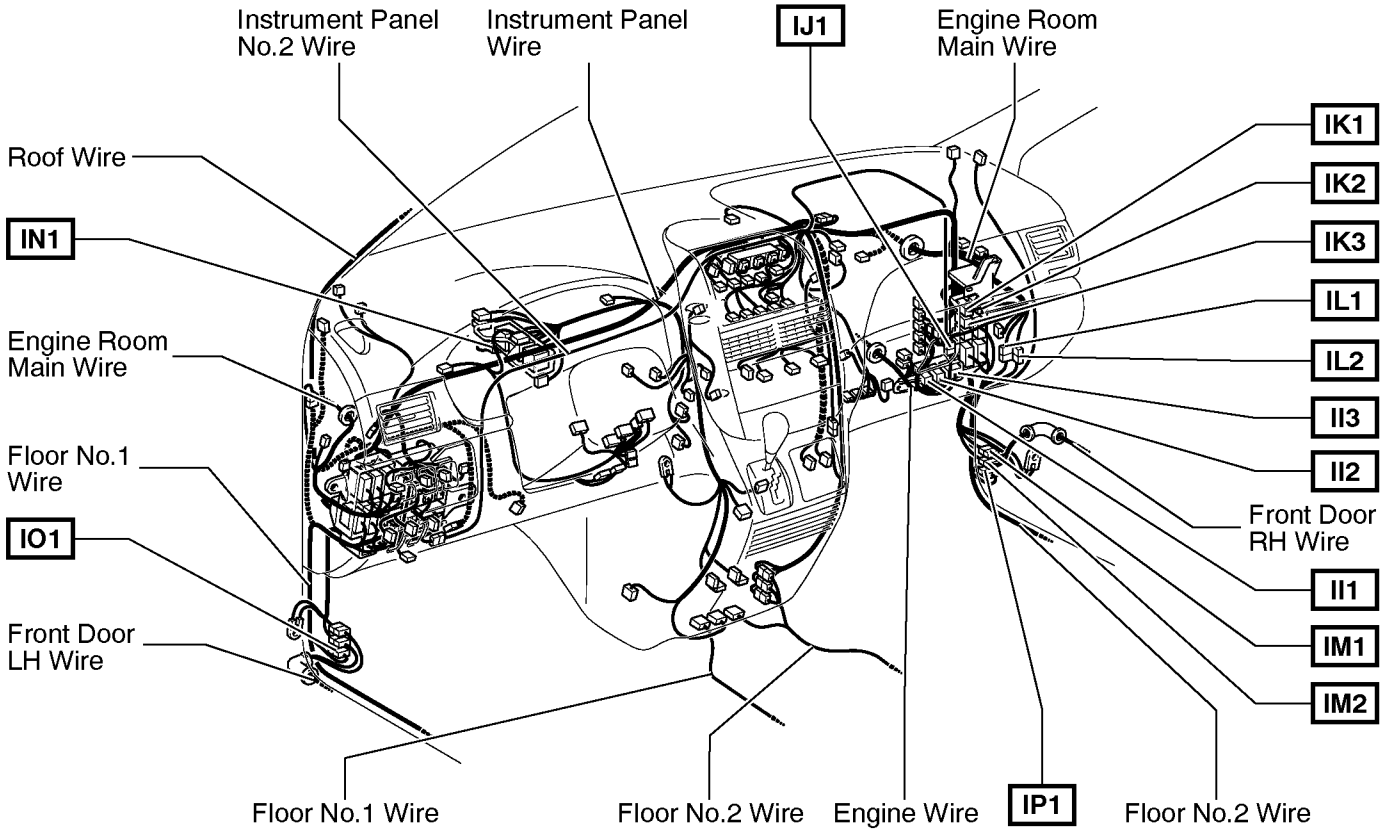


Connector Joining Wire Harness and Wire Harness

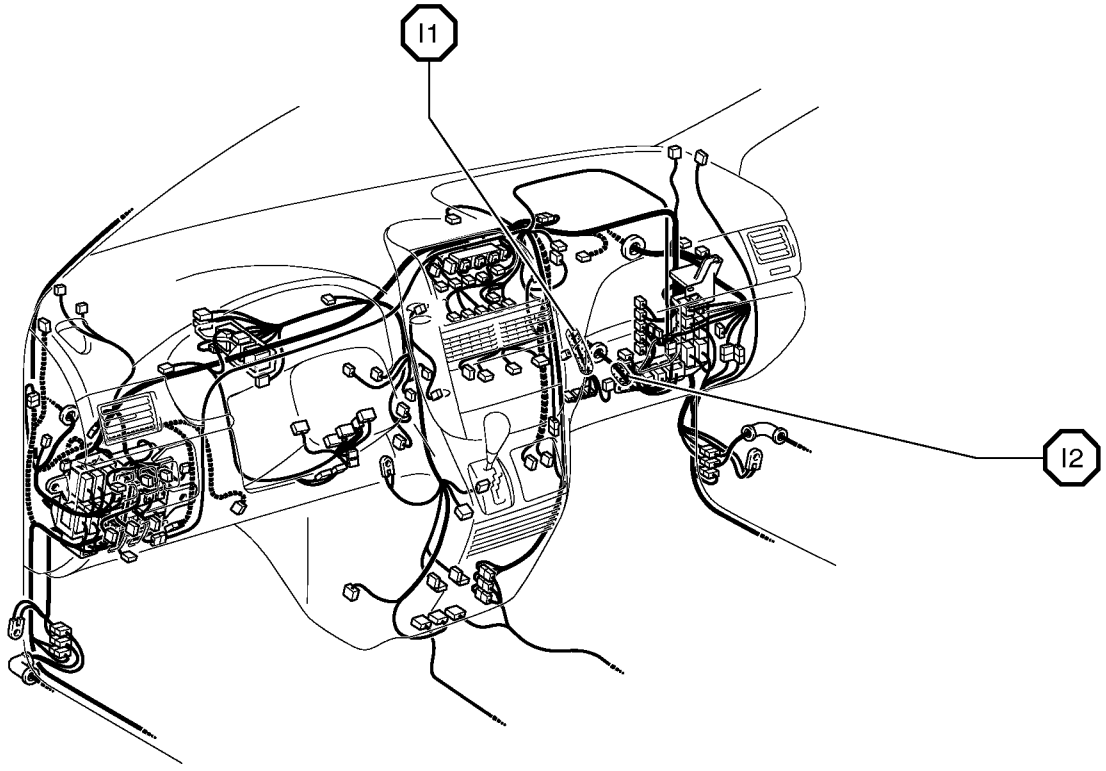


Code	Joining Wire Harness and Wire Harness (Connector Location)
IA1	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2	
IB1	Engine Room Main Wire and Floor No.1 Wire (Left Cowl Side Panel)
IC1	Engine Room Main Wire and Instrument Panel Wire (Near the Driver Side J/B)
ID1	Roof Wire and Instrument Panel Wire (Near the Driver Side J/B)
ID2	
IE1	Floor No.1 Wire and Instrument Panel No.2 Wire (Near the Driver Side J/B)
IF1	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
IF2	
IF3	
IG1	Instrument Panel No.2 Wire and Instrument Panel Wire (Instrument Panel Brace RH)
IH1	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH2	
IH3	

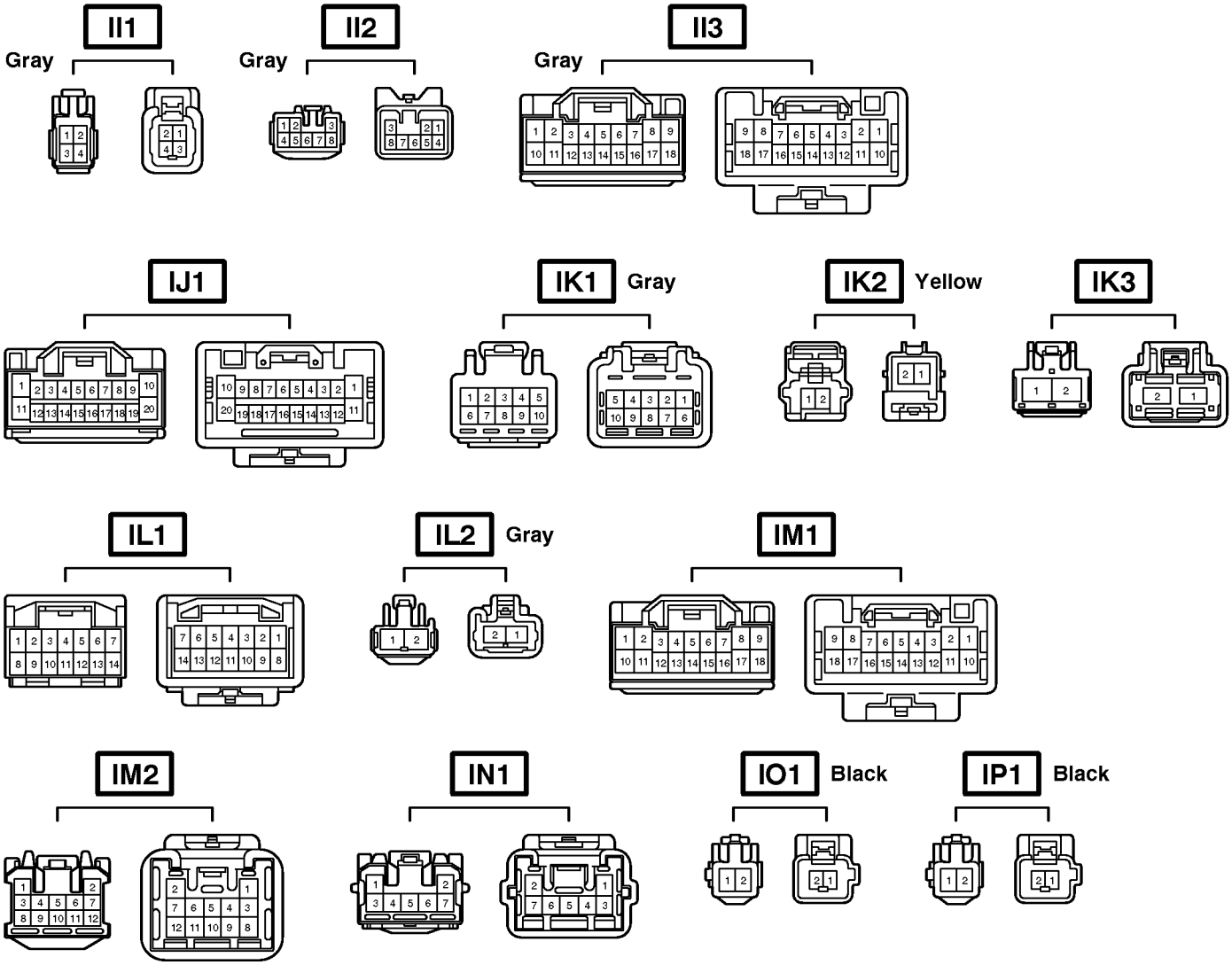
▭ : Location of Connector Joining Wire Harness and Wire Harness



⬡ : Location of Splice Points

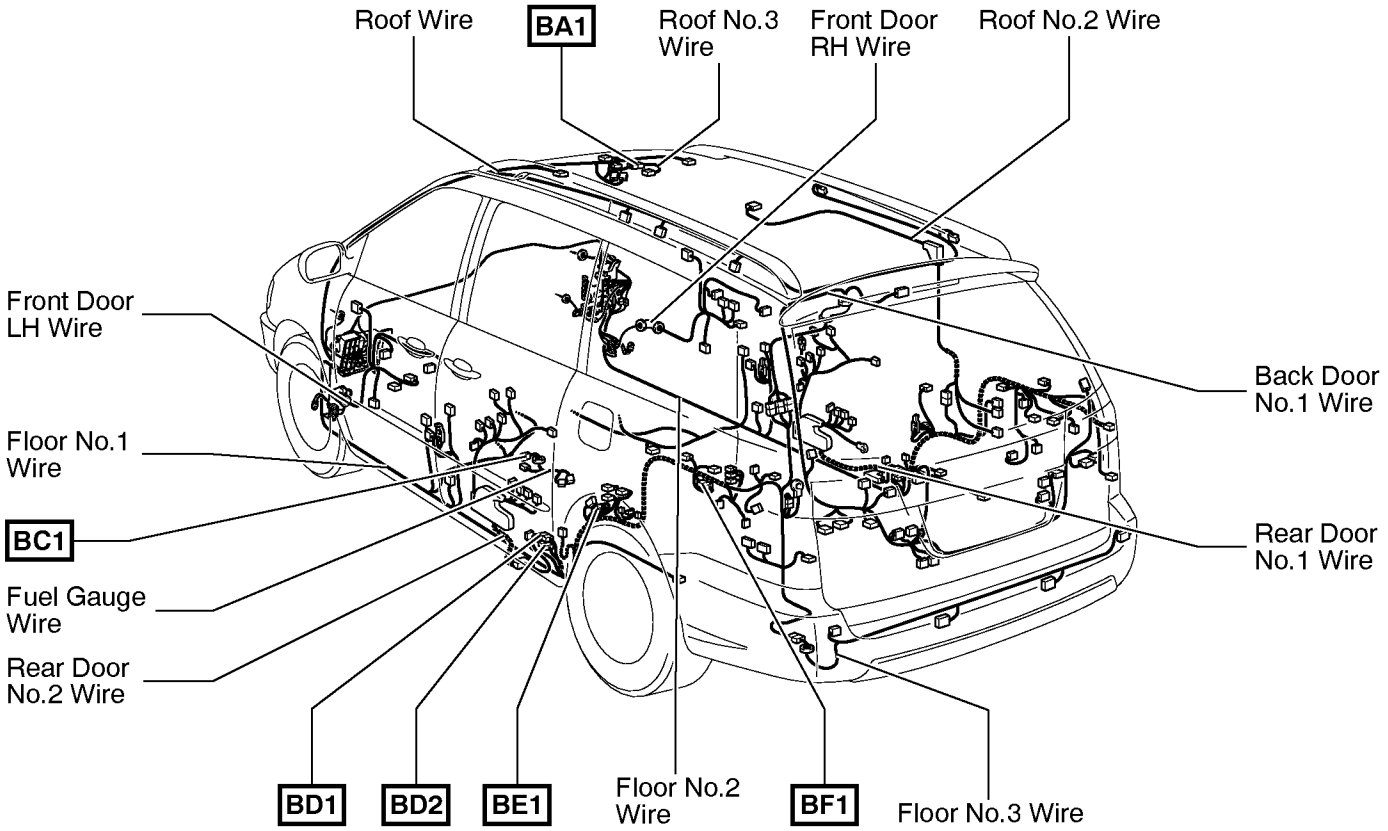


Connector Joining Wire Harness and Wire Harness

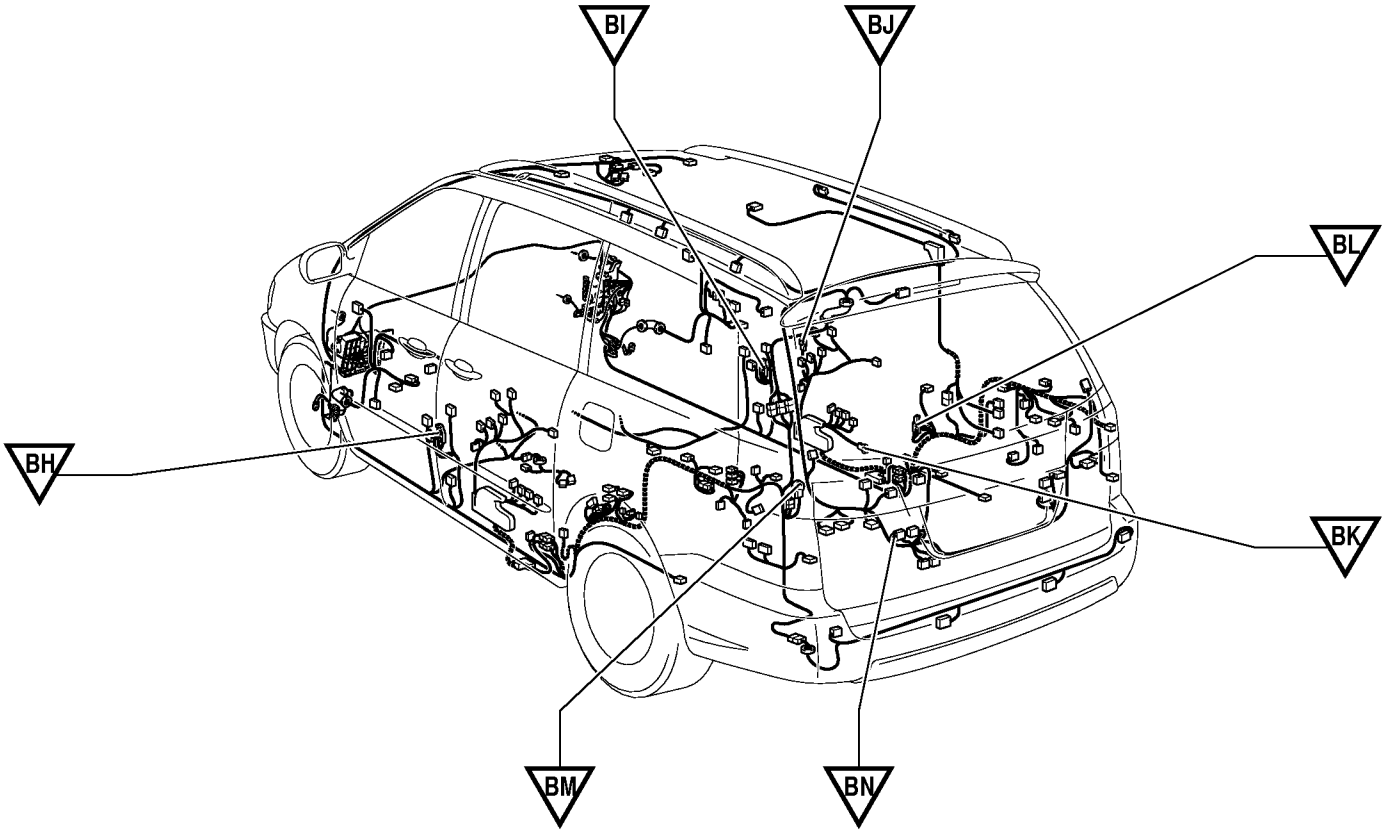


Code	Joining Wire Harness and Wire Harness (Connector Location)
II1	Engine Wire and Instrument Panel Wire (Right Kick Panel)
II2	
II3	
IJ1	Engine Wire and Engine Room Main Wire (Right Kick Panel)
IK1	Engine Room Main Wire and Instrument Panel Wire (Right Kick Panel)
IK2	
IK3	
IL1	Engine Room Main Wire and Floor No.2 Wire (Right Kick Panel)
IL2	
IM1	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2	
IN1	Instrument Panel Wire and Instrument Panel Wire (Behind the Combination Meter)
IO1	Floor No.1 Wire and Floor No.1 Wire (Left Kick Panel)
IP1	Floor No.2 Wire and Floor No.2 Wire (Right Kick Panel)

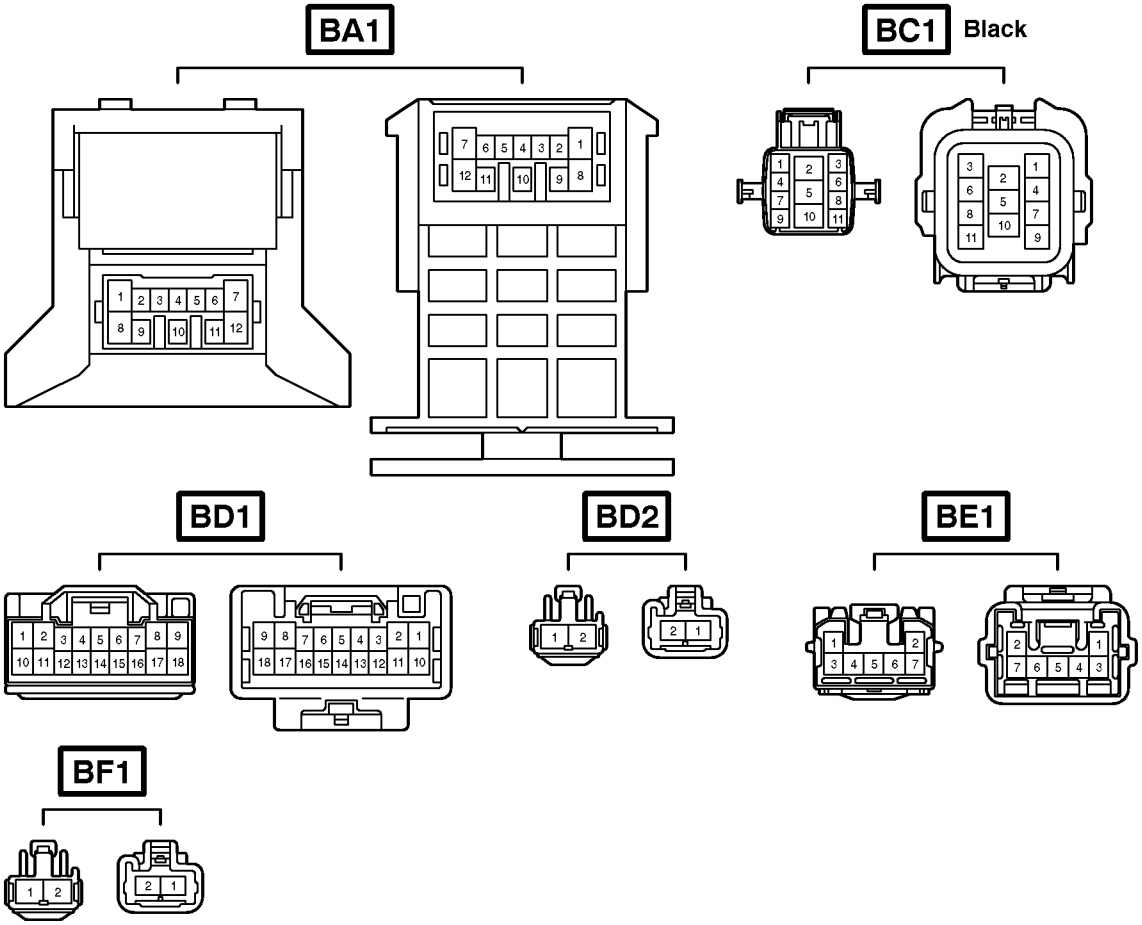
▭ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points

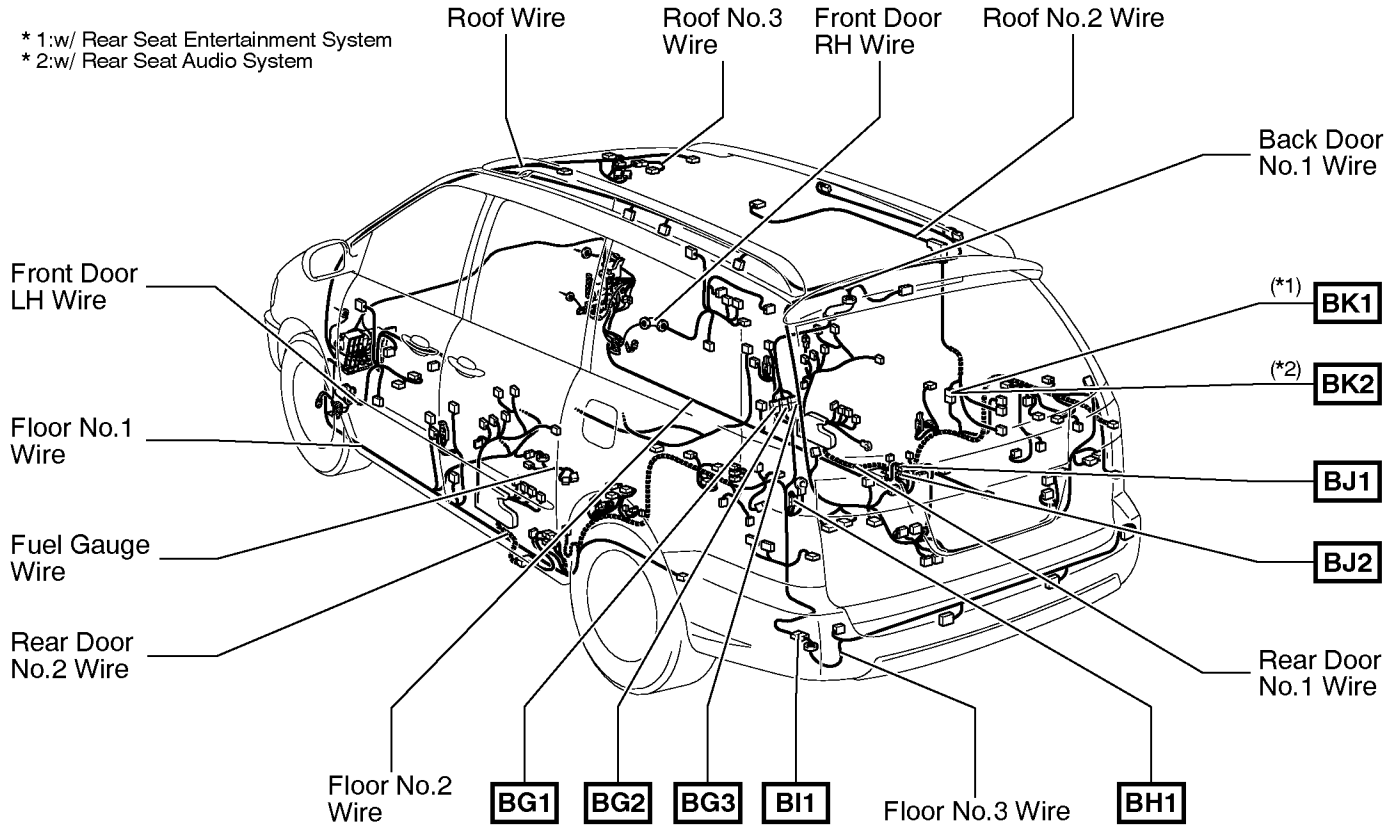


Connector Joining Wire Harness and Wire Harness

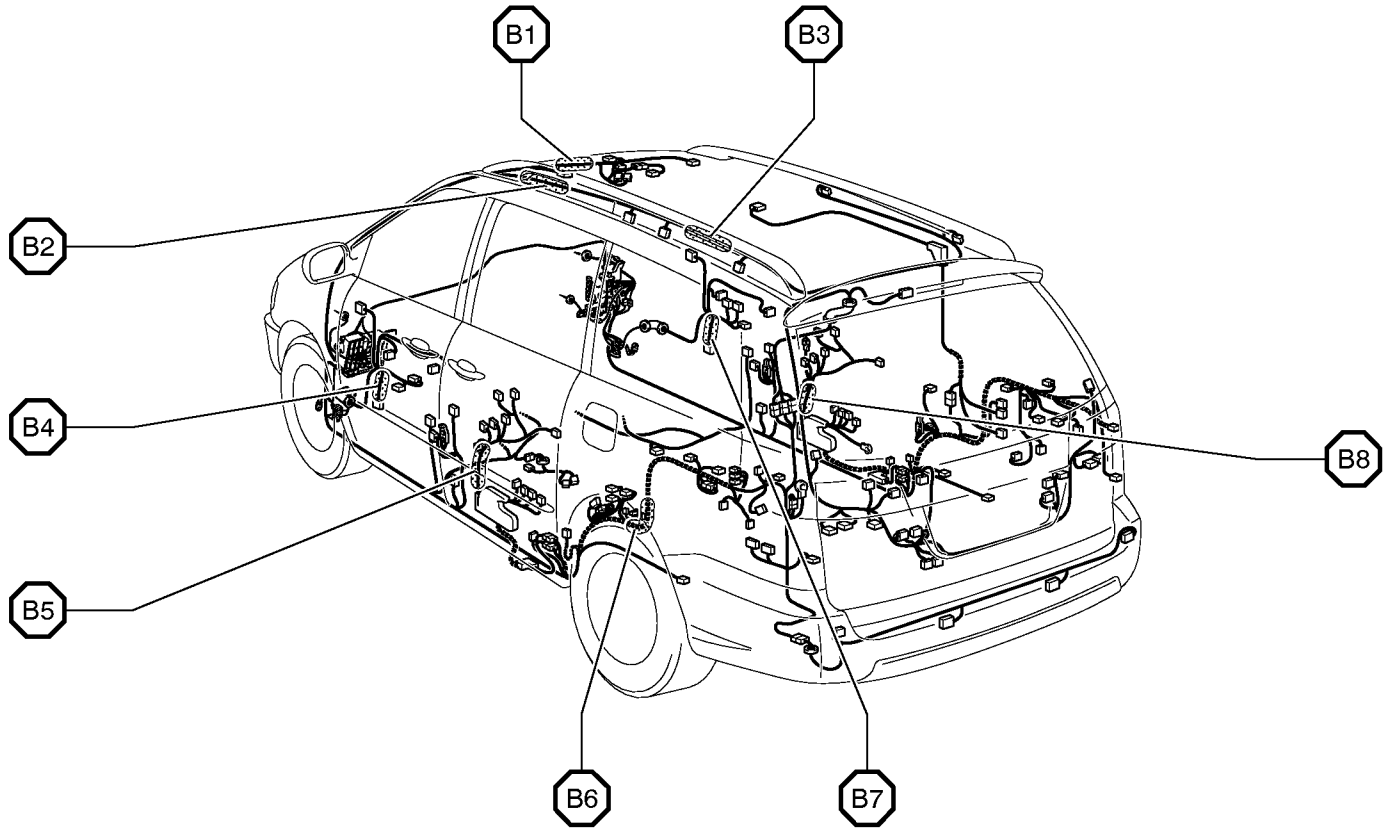


Code	Joining Wire Harness and Wire Harness (Connector Location)
BA1	Roof No.3 Wire and Roof Wire (Front Side of the Roof)
BC1	Fuel Gauge Wire and Floor No.1 Wire (Near the Fuel Tank)
BD1	Rear Door No.2 Wire and Floor No.1 Wire (On the Left Rear Wheel House)
BD2	
BE1	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BF1	

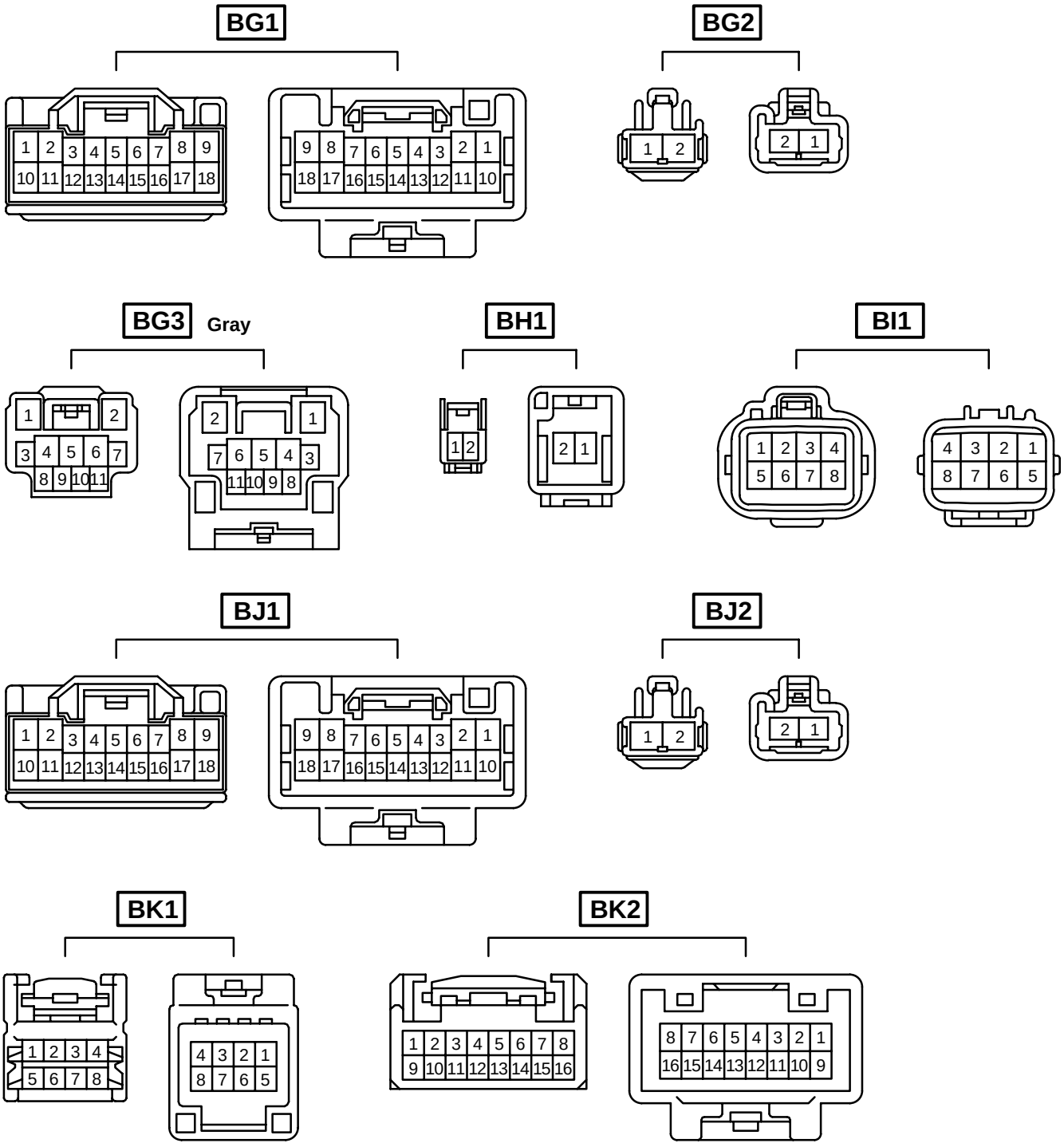
▭ : Location of Connector Joining Wire Harness and Wire Harness



⬡ : Location of Splice Points



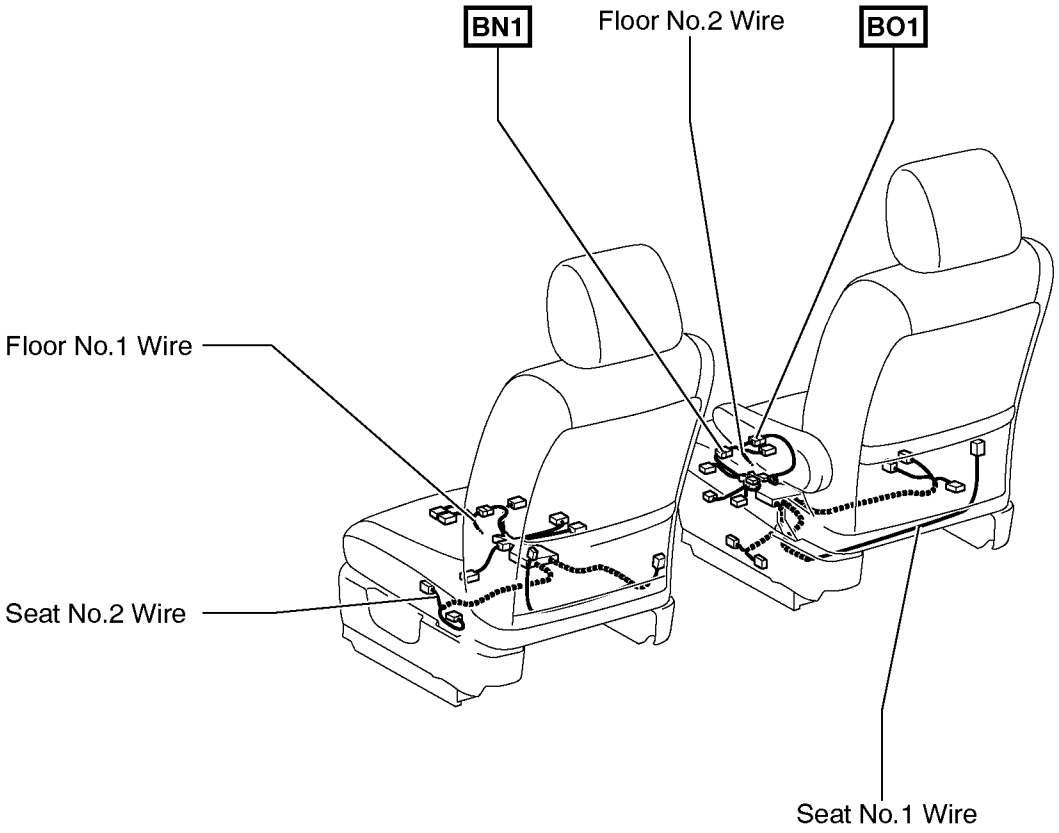
Connector Joining Wire Harness and Wire Harness



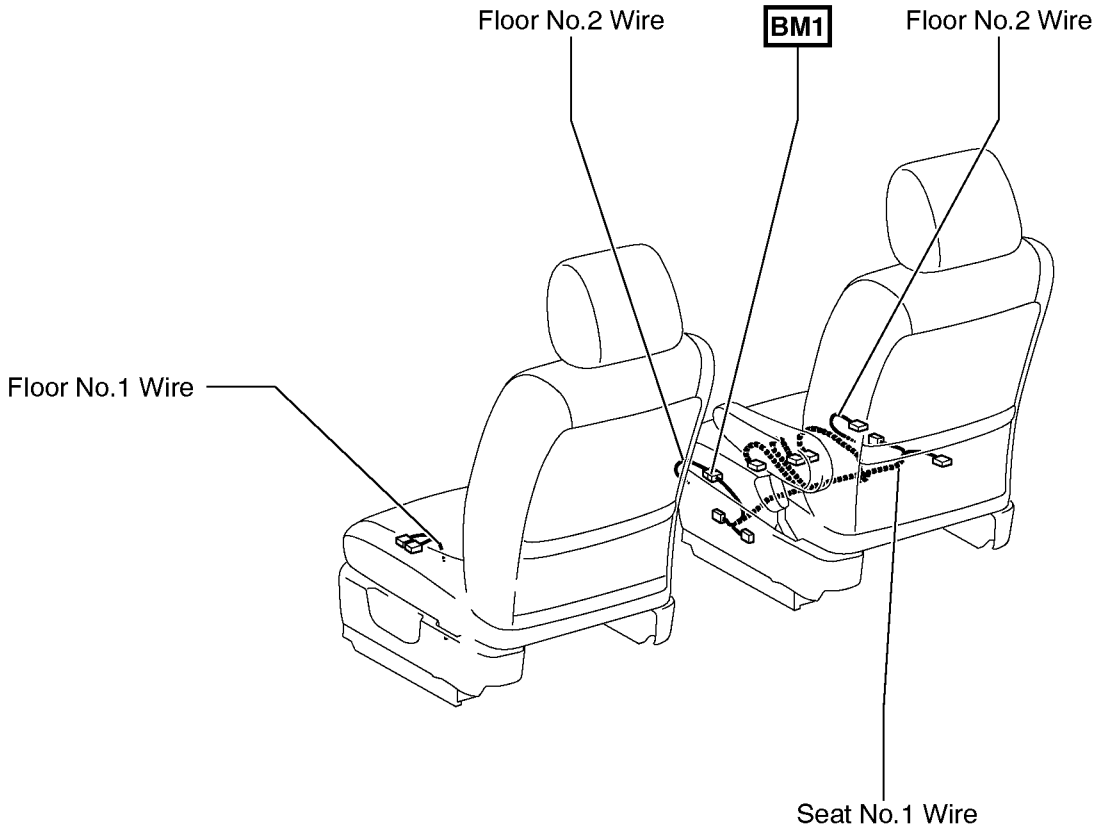
Code	Joining Wire Harness and Wire Harness (Connector Location)
BG1	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BG2	
BG3	
BH1	Floor No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BI1	Floor No.3 Wire and Floor No.1 Wire (Lower Back Panel)
BJ1	Rear Door No.1 Wire and Floor No.2 Wire (On the Right Rear Wheel House)
BJ2	
BK1	Roof No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)
BK2	

▭ : Location of Connector Joining Wire Harness and Wire Harness

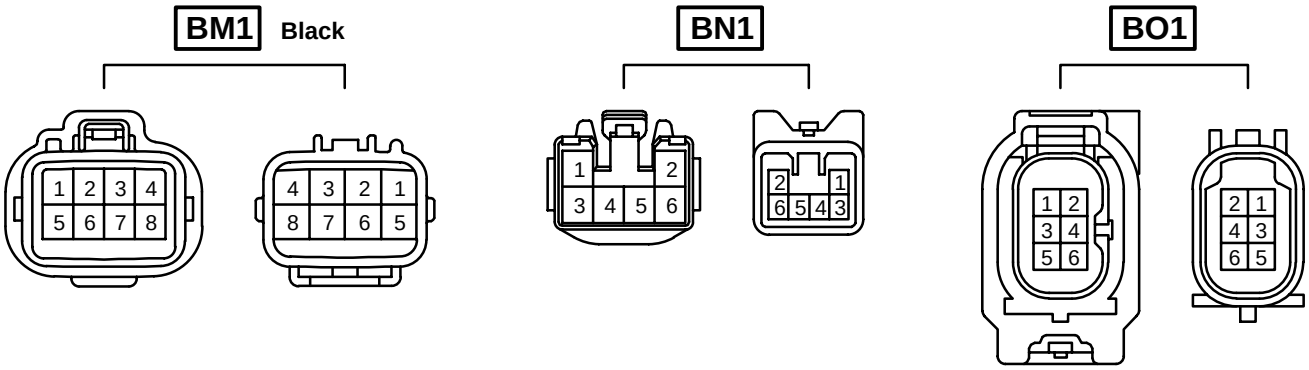
[w/ Power Seat]



[w/o Power Seat]



Connector Joining Wire Harness and Wire Harness



Code	Joining Wire Harness and Wire Harness (Connector Location)
BM1	Floor No.2 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)
BN1	
BO1	Seat No.1 Wire and Floor No.2 Wire (Under the Front Passenger's Seat)

K CONNECTOR LIST

*1 : w/o Side Airbag

A 1
Black



A 2
Gray



A 3
Gray



A 4



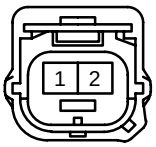
A 5
Dark Gray



A 6
Dark Gray



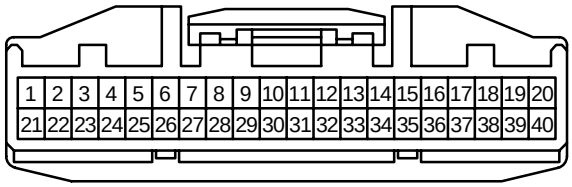
A 7
Yellow



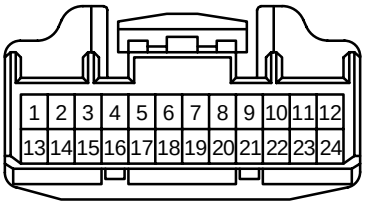
A 8
Yellow



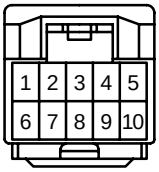
A 9



A10



A11



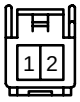
A12



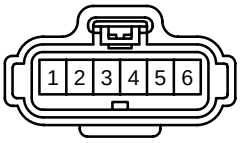
A13
Black



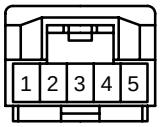
A14



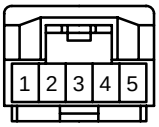
A15
Black



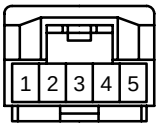
A16
Black



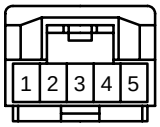
A17
Black



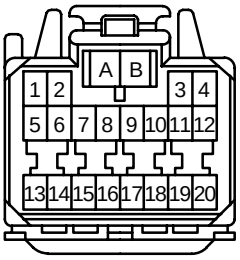
A18
Black



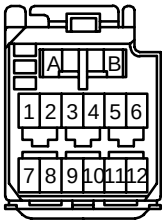
A19
Black



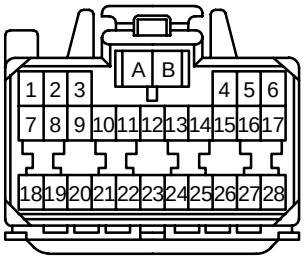
A20
(w/ Side Airbag) Yellow



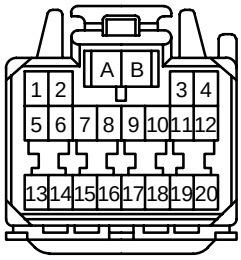
A20
(*1) Yellow



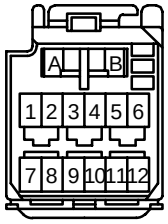
A21
Yellow



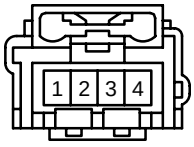
A22
(w/ Side Airbag) Yellow



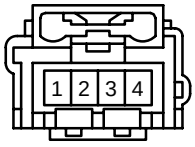
A22
(*1) Yellow



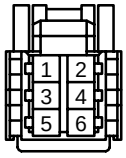
A23
Yellow



A24
Yellow



A25
Black



A26



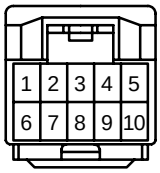
A27



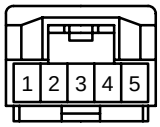
A28



A29



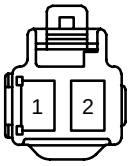
A30
Black



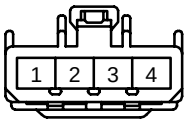
B 1
Black



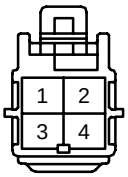
B 2
Black



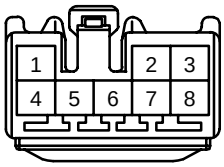
B 3
Black



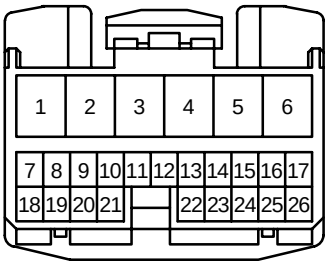
B 4
Black



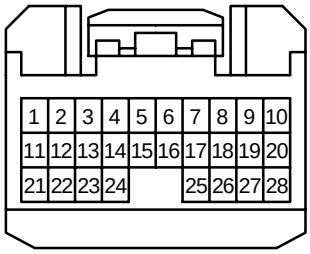
B 5



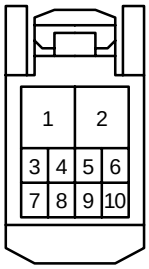
B 6



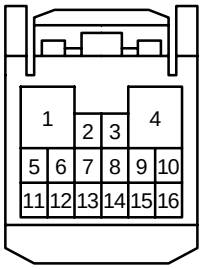
B 7



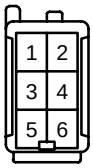
B 8



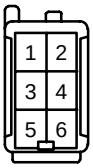
B 9



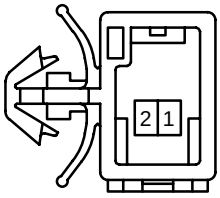
B10



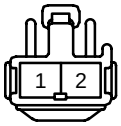
B11



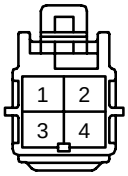
B12



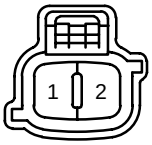
B13



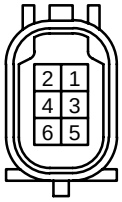
B15
Black



B17
Gray



B18
(w/ Power Seat)



B18
(w/o Power Seat)



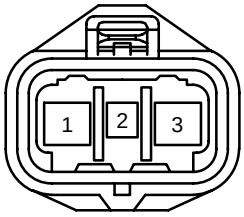
C 1
Black



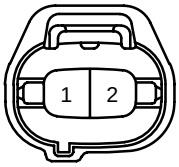
C 2
Black



C 3
Black



C 4
Blue

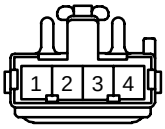


K CONNECTOR LIST

C 5
Black



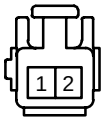
C 6



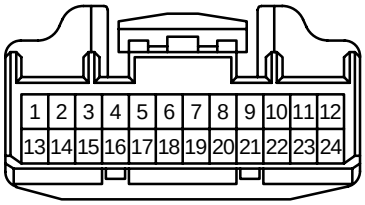
C 7
Blue



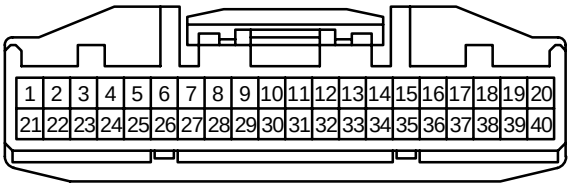
C 8
Black



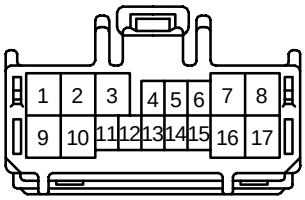
C 9



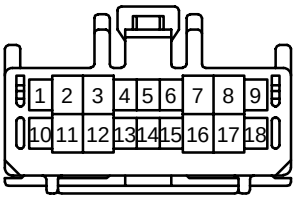
C10



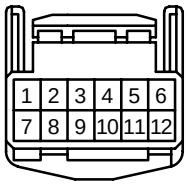
C11



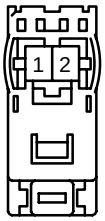
C12
Black



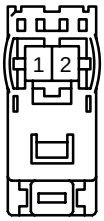
C13
Black



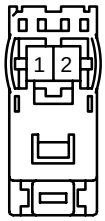
C14
Black



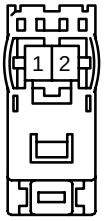
C15
Black



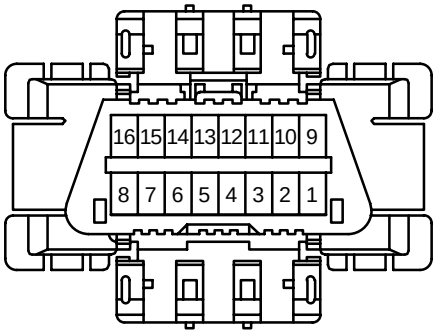
C16
Black



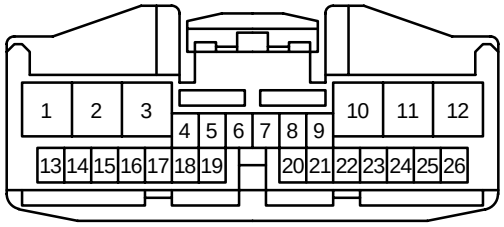
C17
Black



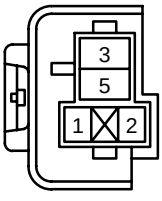
D 1



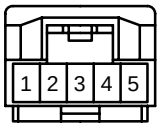
D 2



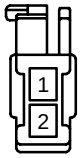
D 3



D 4



D 5
Gray



D 6
Gray



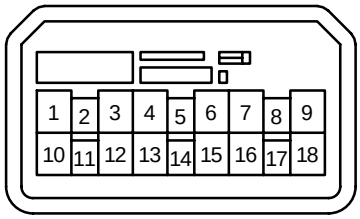
D 7
Black



D 8
Black



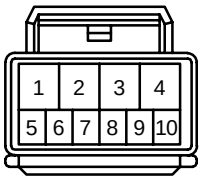
D 9



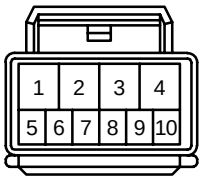
D10



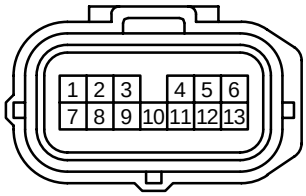
D11



D12



E 1
Gray



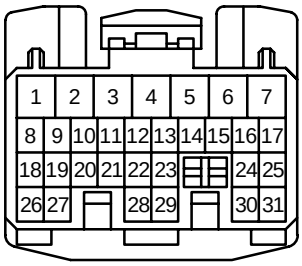
E 2
Dark Gray



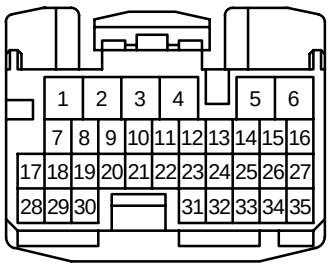
E 3
Black



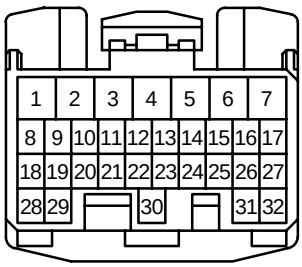
E 4



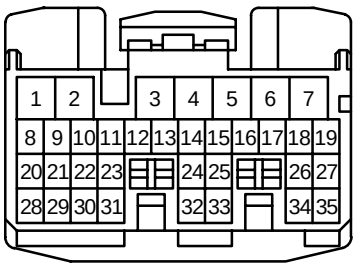
E 5



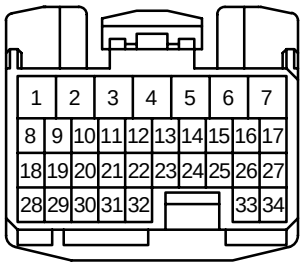
E 6



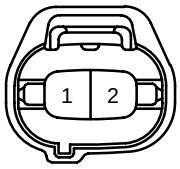
E 7



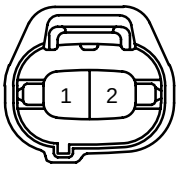
E 8



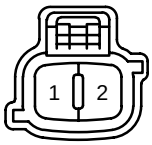
F 1
Black



F 2
Black



F 3
Black



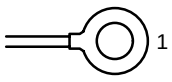
F 4
Black



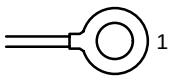
F 5
Black



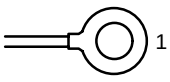
F 6



F 7

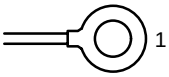


F 8

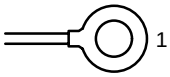


K CONNECTOR LIST

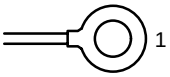
F 9



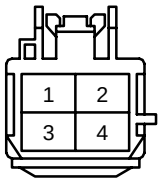
F10



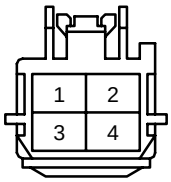
F11



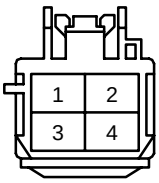
F12



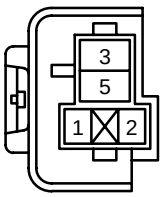
F13



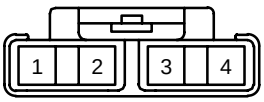
F14



F15



F16



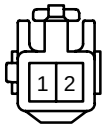
F17



F18



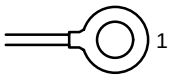
F19



F20



G 1



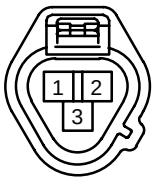
G 2
Black



G 3



H 1
Black



H 2
Black



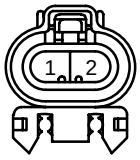
H 3
Gray



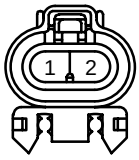
H 4
Gray



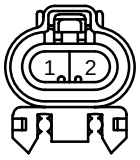
H 5
Black



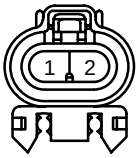
H 6
Brown



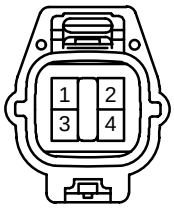
H 7
Black



H 8
Brown



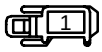
H 9
Gray



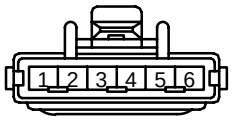
H10
Black



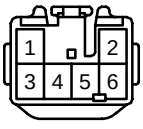
H11
Black



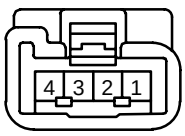
H12
Black



H13
Gray



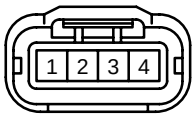
H14
Gray



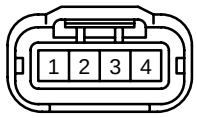
H15



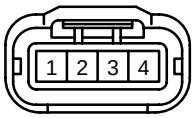
I 1
Black



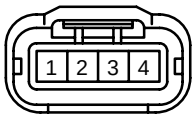
I 2
Black



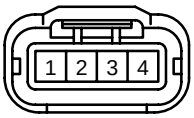
I 3
Black



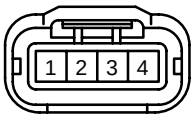
I 4
Black



I 5
Black



I 6
Black



I 7
Gray



I 8
Gray



I 9
Gray



I10
Gray



I11
Gray



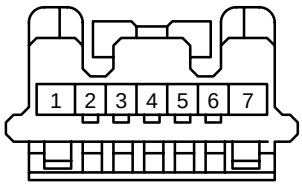
I12
Gray



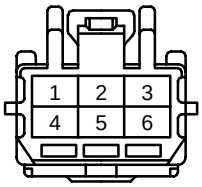
I13



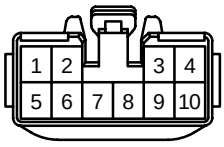
I14
Black



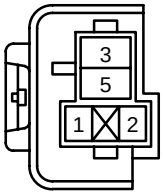
I15



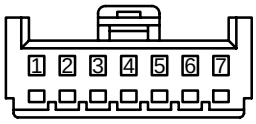
I16



I17
Black



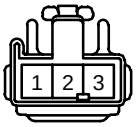
I18
Black



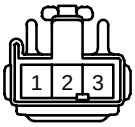
I19



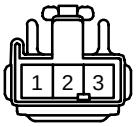
I20



I21



I22



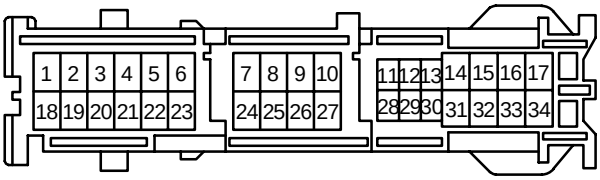
J 1
Blue



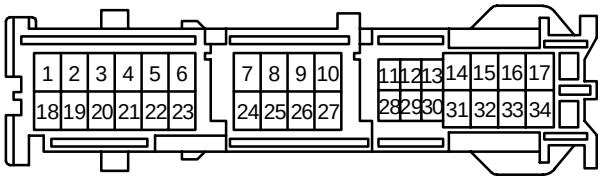
J 2



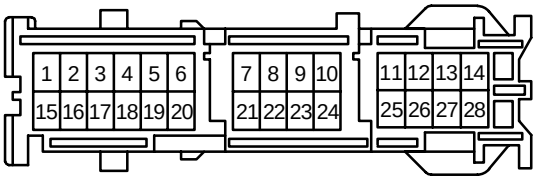
J 3



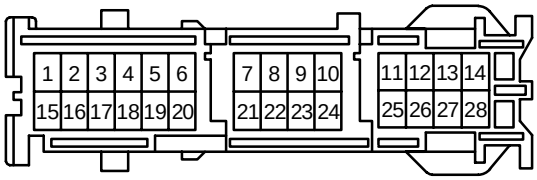
J 4



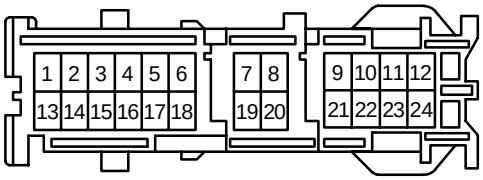
J 5



J 6

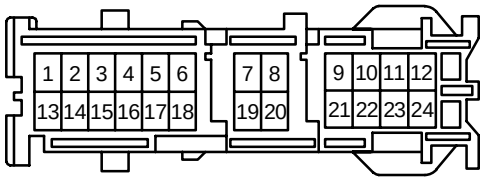


J 7

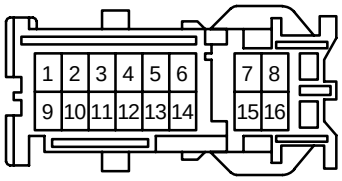


K CONNECTOR LIST

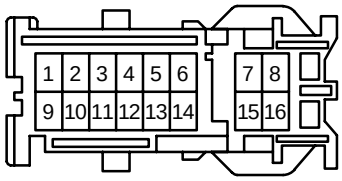
J 8



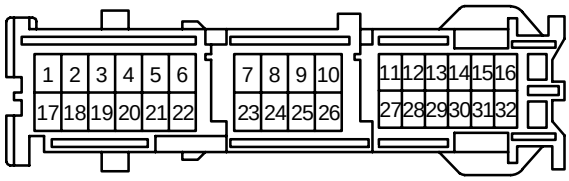
J 9



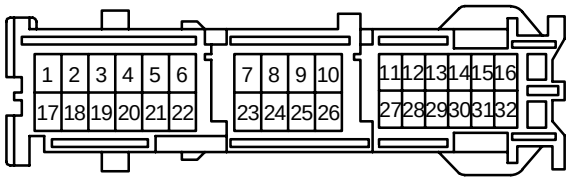
J10



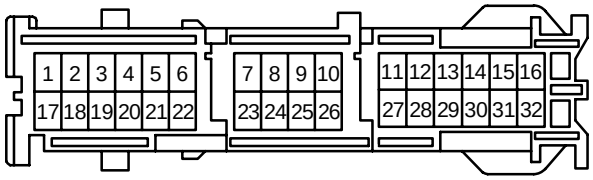
J11



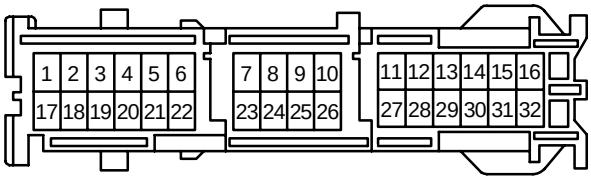
J12



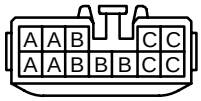
J13



J14



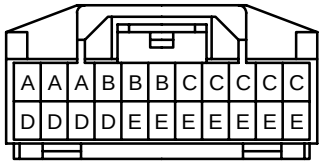
J15
Gray



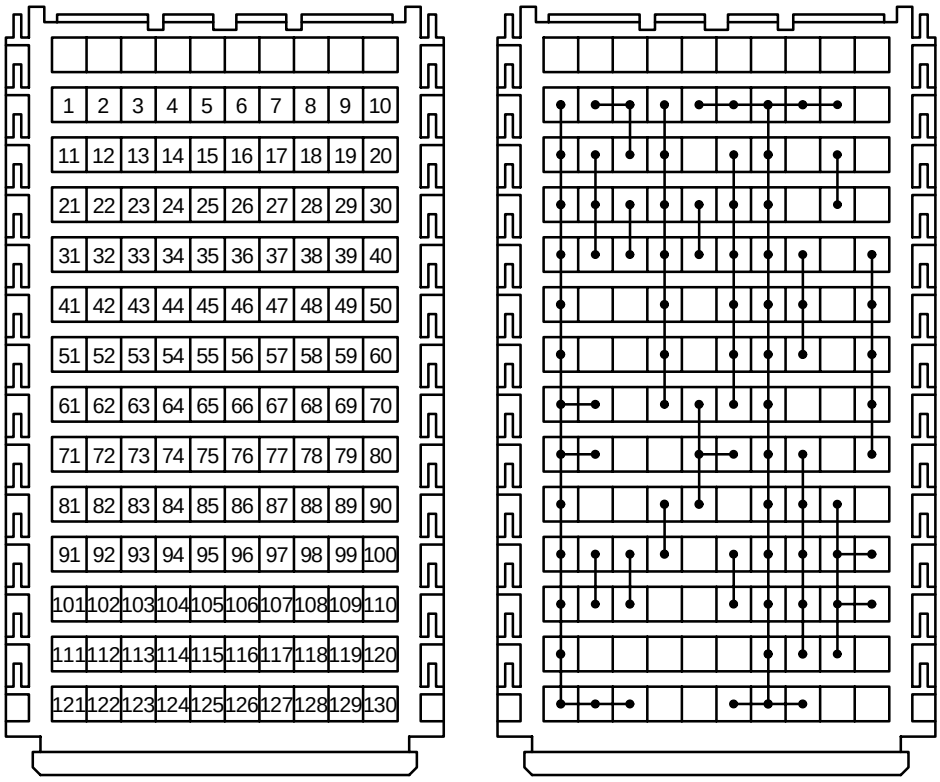
J16



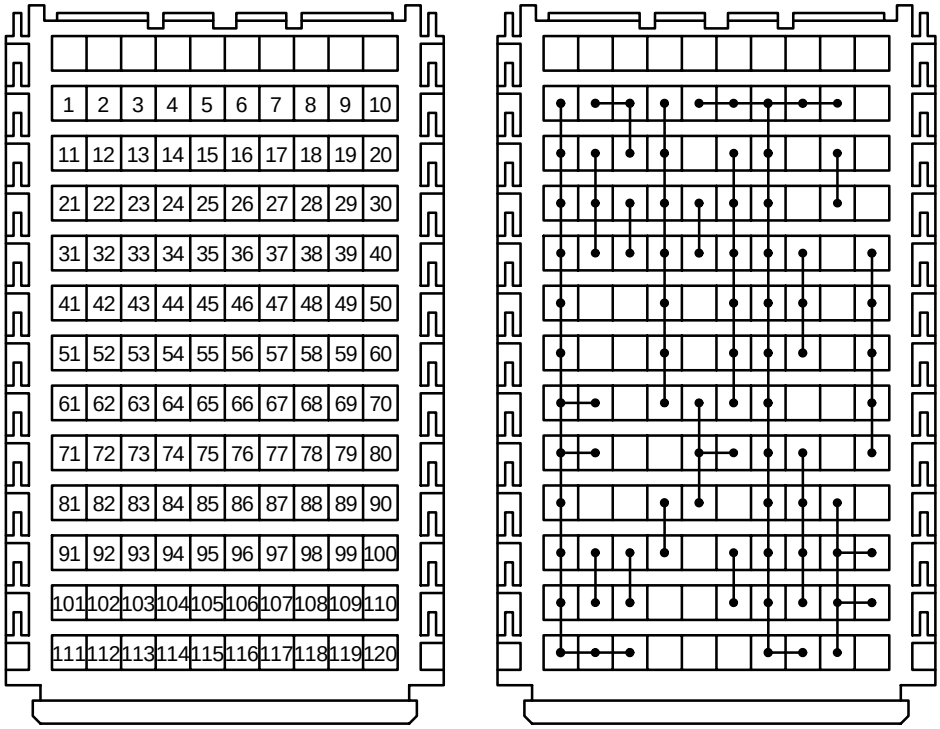
J17



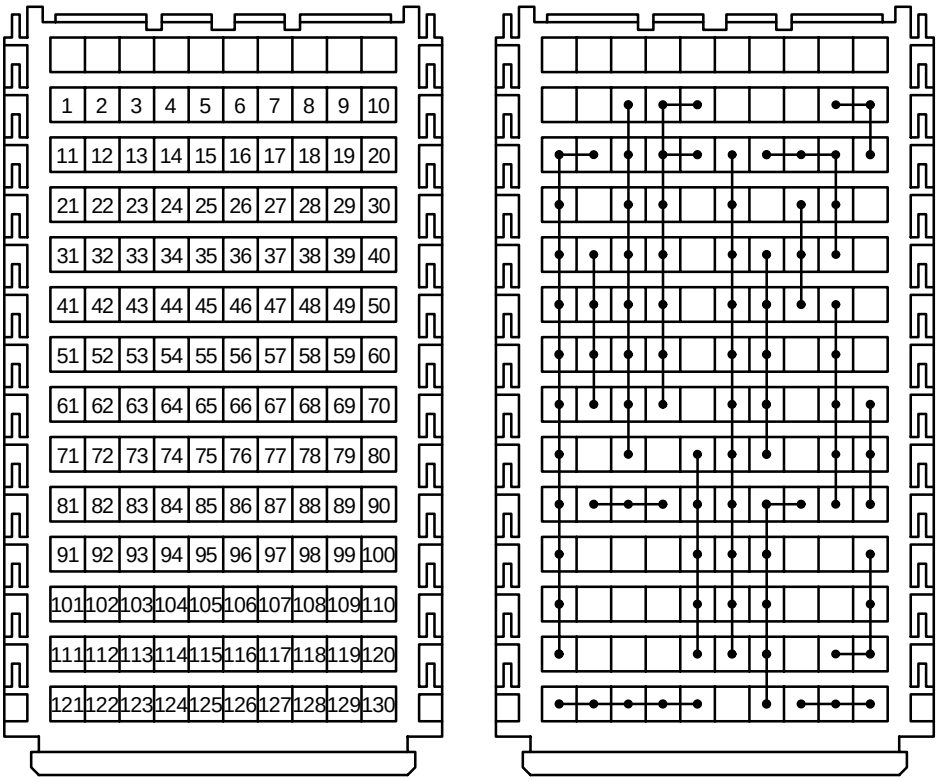
J18
(Automatic A/C) Short Terminal Grouping



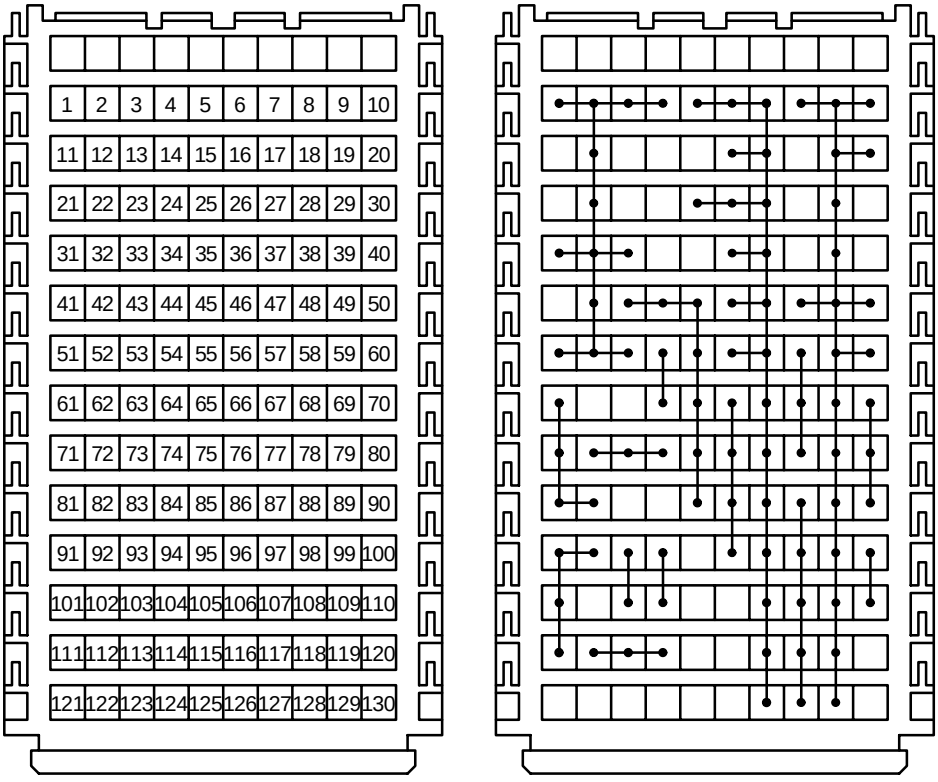
J18
(Manual A/C) Short Terminal Grouping



J19
Short Terminal Grouping



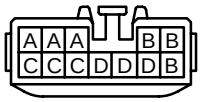
J20
Short Terminal Grouping



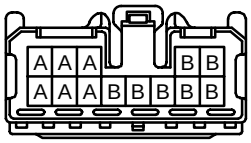
J21
Black



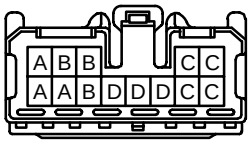
J22
Black



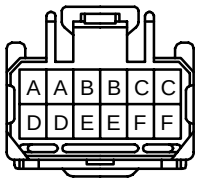
J23
Gray



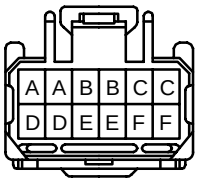
J24
Blue



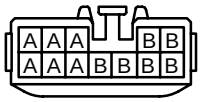
J25



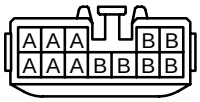
J26



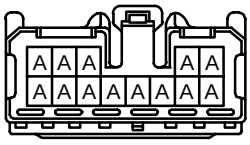
J27



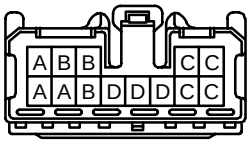
J28



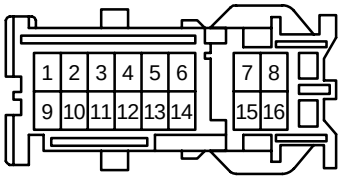
J29
Black



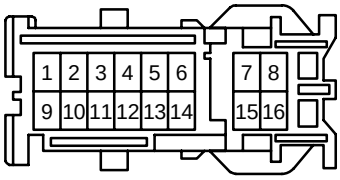
J30
Blue



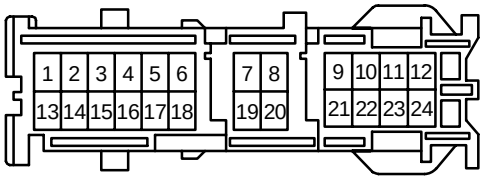
J31



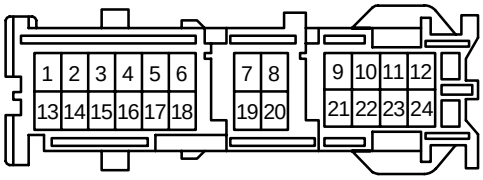
J32



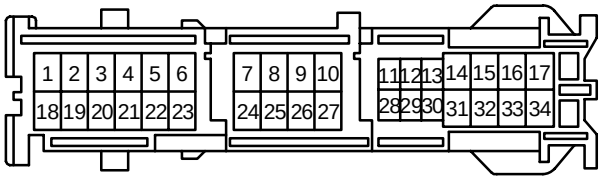
J33



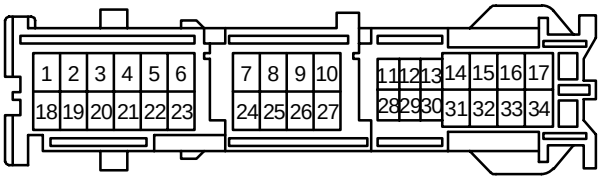
J34



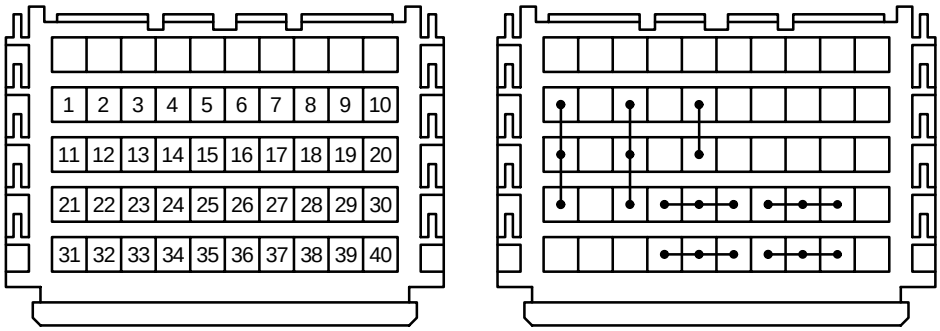
J35



J36



J37
Short Terminal Grouping



J38



K CONNECTOR LIST

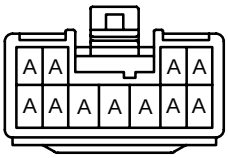
J39



J40
Black



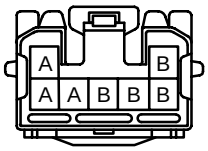
J41
Gray



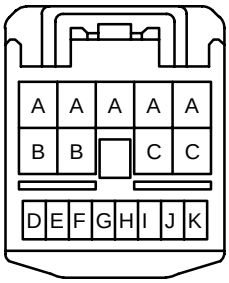
J42
Black



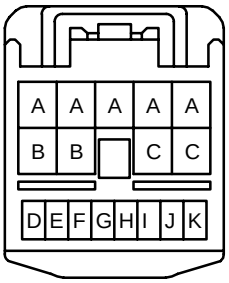
J43



J44



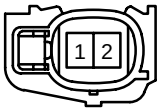
J45



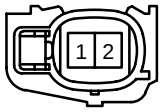
K 1
Black



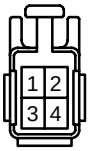
K 2
Gray



K 3
Gray



K 4



L 1
Black



L 2
Gray



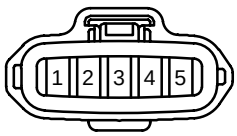
L 3
Gray



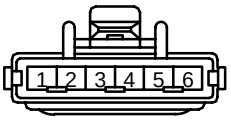
L 4



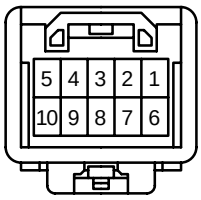
M 1
Black



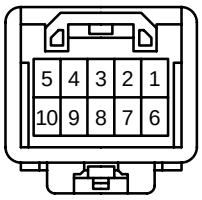
M 2
Black



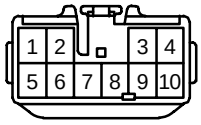
M 3



M 4



M 5



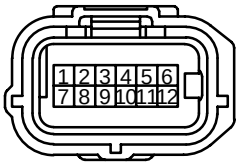
N 1
Gray



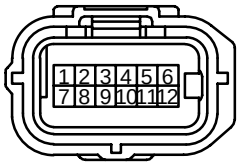
O 1
Gray



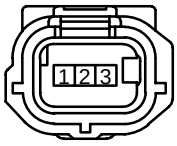
O 3
Black



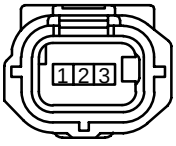
O 4
Gray



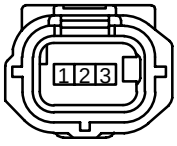
O 5
Black



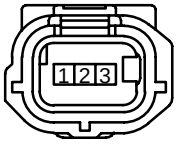
O 6
Gray



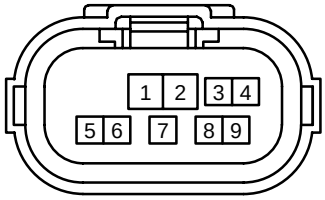
O 7
Gray



O 8
Black



P 1
Gray



P 2
Gray



P 3
Gray



P 4
Black



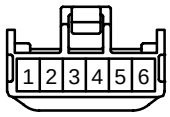
P 5
Dark Gray



P 6
Black



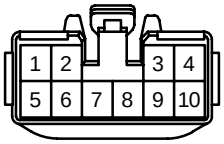
P 7
Black



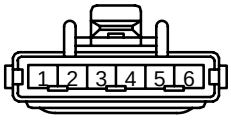
P 8



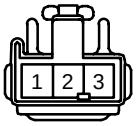
P 9



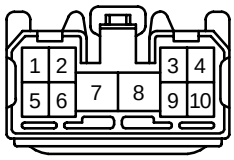
P10
Black



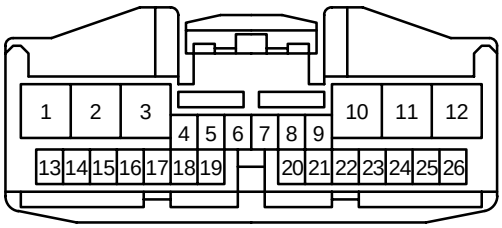
P11



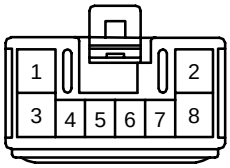
P12



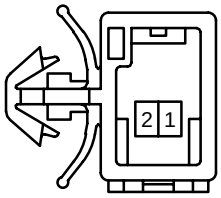
P13



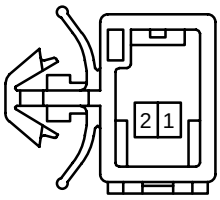
P14



P15



P16



P17
Black



P18



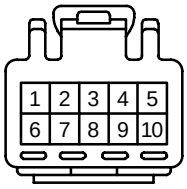
P19



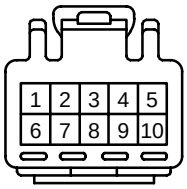
P20



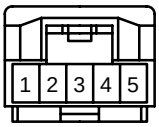
P21
Gray



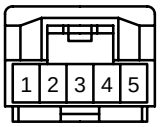
P22
Gray



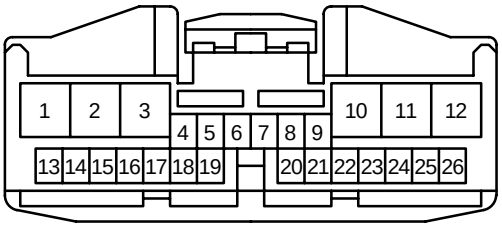
P23
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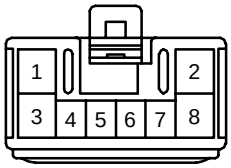
P24
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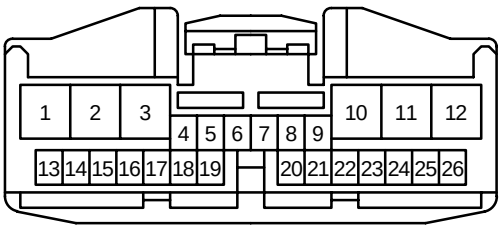
P25



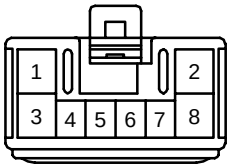
P26



P27

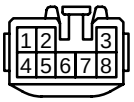


P28



K CONNECTOR LIST

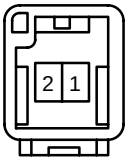
P29



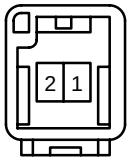
P30



P31



P32



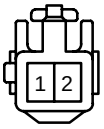
P33
Black



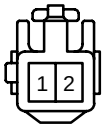
P34
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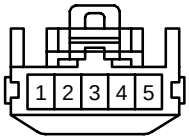
P35
Black



P36
Black



P37



P38



P39



P40
Black



P41
Black



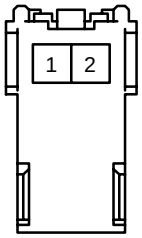
P42
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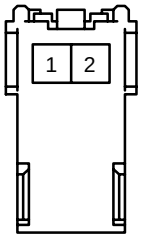
P43
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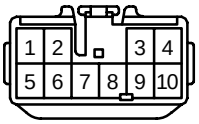
P44
Yellow



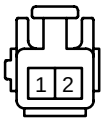
P45
Yellow



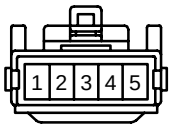
P46
Black



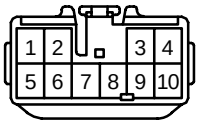
P47
Black



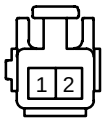
P49



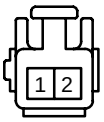
P50
Black



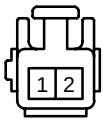
P51
Black



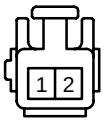
P52
Black



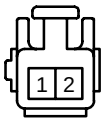
P53
Black



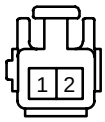
P54
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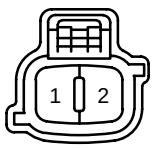
P55
Black



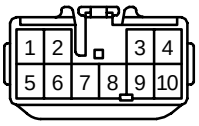
P56
Black



R 1
Black



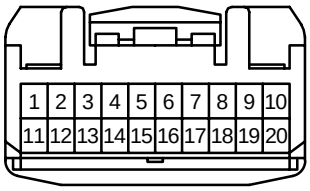
R 2



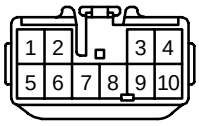
R 3



R 4



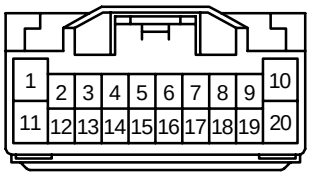
R 5



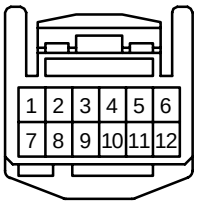
R 6



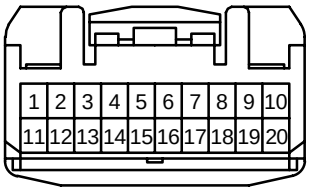
R 7



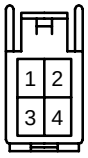
R 8



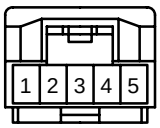
R 9



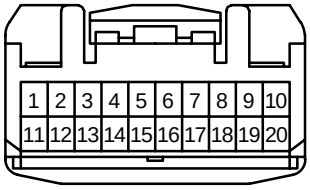
R10



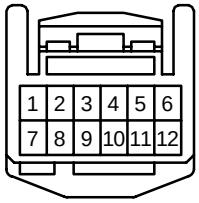
R12
Gray



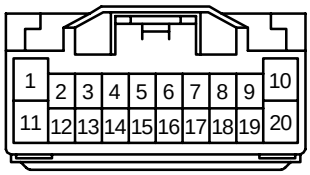
R13



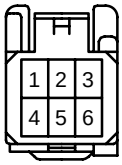
R14



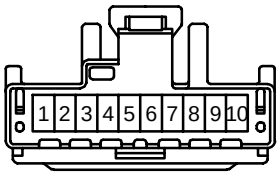
R15



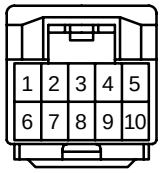
R16
Blue



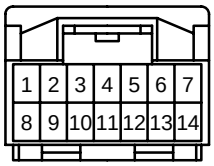
R17



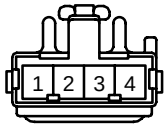
R18
(Automatic A/C)



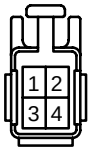
R18
(Manual A/C)



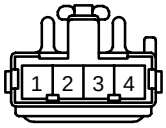
R19
Gray



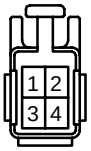
R20



R21
Gray



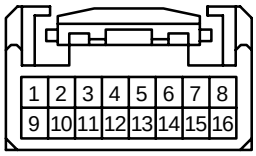
R22



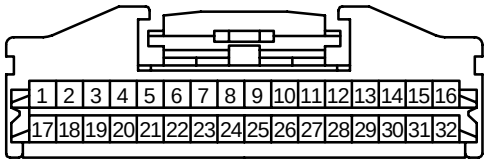
R23
Black



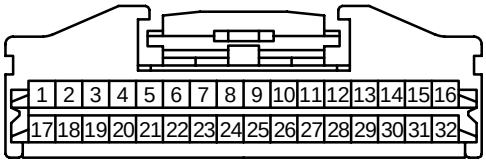
R24



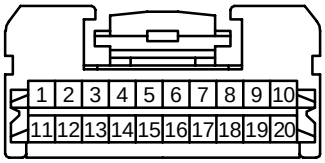
R25



R26

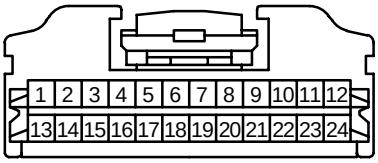


R27



K CONNECTOR LIST

R28



R29



R30



R31



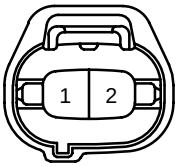
R32



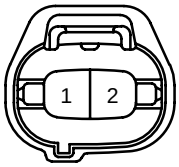
R33
Black



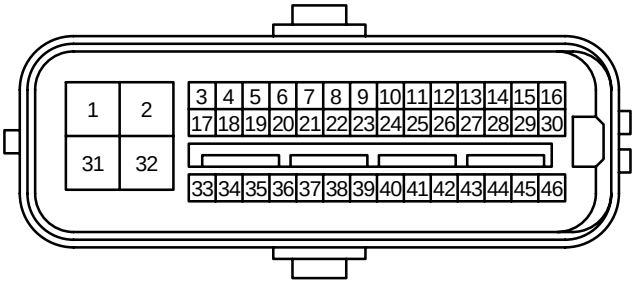
S 1
Black



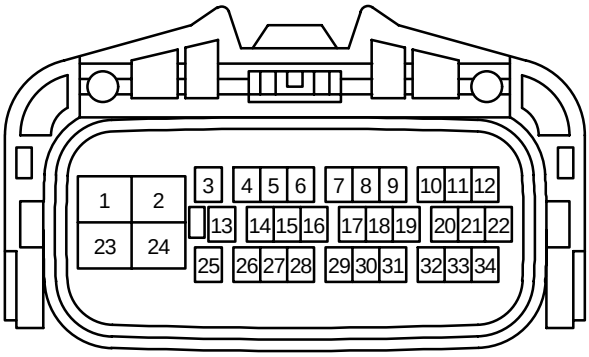
S 2
Black



S 3
(w/ VSC) Black



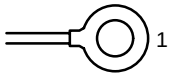
S 3
(w/o VSC) Black



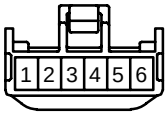
S 4
Black



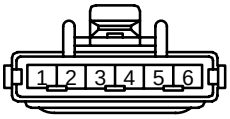
S 5



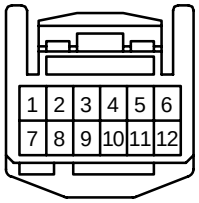
S 6
Black



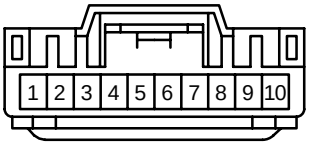
S 7



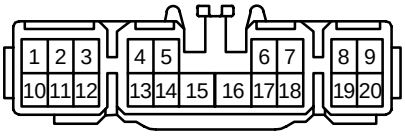
S 8



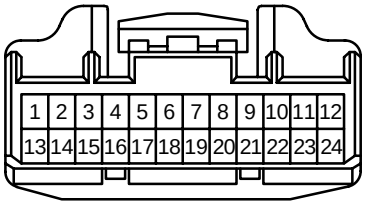
S 9
Gray



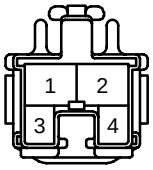
S10



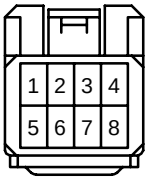
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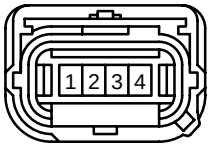
S12
Blue



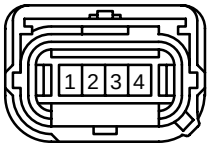
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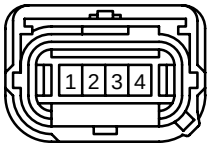
S14
Yellow



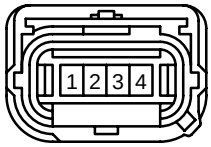
S15
Yellow



S16
Yellow



S17
Yellow



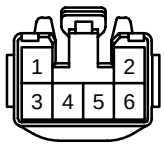
S18
Yellow



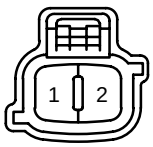
S19
Yellow



S20



S21
Black



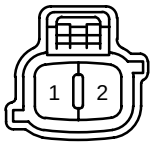
S22
Black



S23



S24
Black



S25
Black



S26



S27



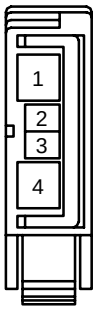
S28
Black



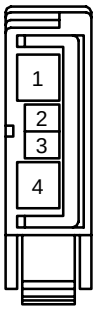
S29
Black



S30
Gray



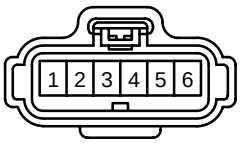
S31
Gray



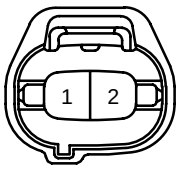
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Black



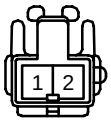
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Black



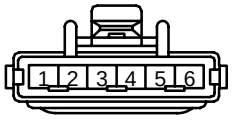
T 3
Black



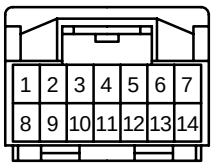
T 4
Black



T 5
Black



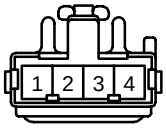
T 6



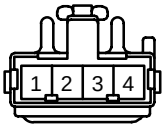
T 7
Black



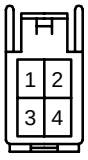
T 8



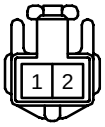
T 9



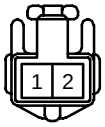
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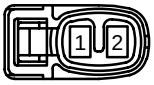
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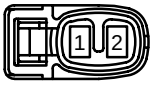
T12



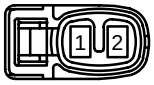
U 1
Black



U 2
Black

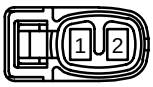


U 3
Black

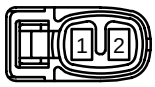


K CONNECTOR LIST

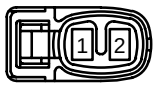
U 4
Black



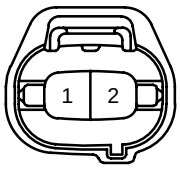
U 5
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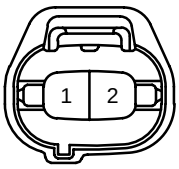
U 6
Black



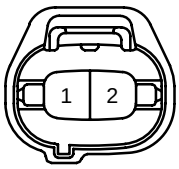
V 1
Brown



V 2
Black



V 3
Black



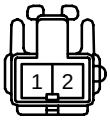
V 4
Black



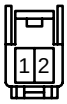
V 5
Black



V 6
Black



V 7



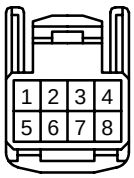
V 8



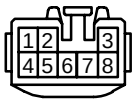
V 9
Black



V10



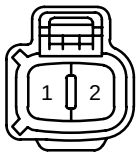
V11



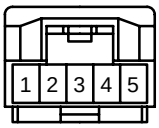
V12
Black



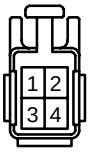
W 1
Black



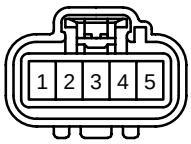
W 2
Black



W 3



Y 1
Black



FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 2005 SIENNA.

Applicable models: MCL20, 23, 25 Series

For service specifications and repair procedures of the above models other than those listed in this manual, refer to the following manuals;

Manual Name	Pub. No.
● 2005 SIENNA Repair Manual	RM1163U
● 2005 TOYOTA New Car Features	NCF275U

All information in this manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

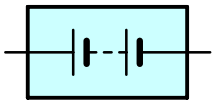
TOYOTA MOTOR CORPORATION

NOTICE

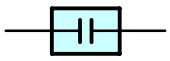
When handling supplemental restraint system components (removal, installation or inspection, etc.), always follow the direction given in the repair manuals listed above to prevent accidents and supplemental restraint system malfunction.

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First Printing : Aug. 27, 2004 01-040827-00

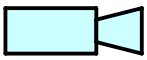
E GLOSSARY OF TERMS AND SYMBOLS



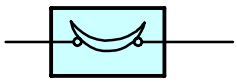
BATTERY
Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.



CAPACITOR (Condenser)
A small holding unit for temporary storage of electrical voltage.



CIGARETTE LIGHTER
An electric resistance heating element.



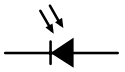
CIRCUIT BREAKER
Basically a reusable fuse, a circuit breaker will heat and open if too much current flows through it. Some units automatically reset when cool, others must be manually reset.



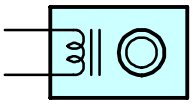
DIODE
A semiconductor which allows current flow in only one direction.



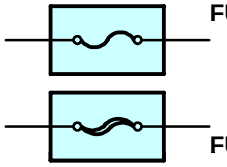
DIODE, ZENER
A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.



PHOTODIODE
The photodiode is a semiconductor which controls the current flow according to the amount of light.



DISTRIBUTOR, IIA
Channels high-voltage current from the ignition coil to the individual spark plugs.



FUSE
A thin metal strip which burns through when too much current flows through it, thereby stopping current flow and protecting a circuit from damage.

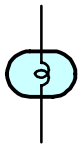
(for Medium Current Fuse)

FUSIBLE LINK
A heavy-gauge wire placed in high amperage circuits which burns through on overloads, thereby protecting the circuit. The numbers indicate the crosssection surface area of the wires.

(for High Current Fuse or Fusible Link)



GROUND
The point at which wiring attaches to the Body, thereby providing a return path for an electrical circuit; without a ground, current cannot flow.

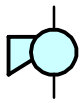


1. SINGLE FILAMENT

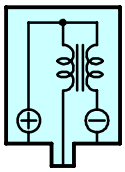


2. DOUBLE FILAMENT

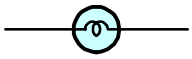
HEADLIGHTS
Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament



HORN
An electric device which sounds a loud audible signal.



IGNITION COIL
Converts low-voltage DC current into high-voltage ignition current for firing the spark plugs.



LIGHT
Current flow through a filament causes the filament to heat up and emit light.



LED (LIGHT EMITTING DIODE)
Upon current flow, these diodes emit light without producing the heat of a comparable light.



METER, ANALOG
Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.



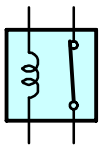
METER, DIGITAL
Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.



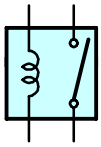
MOTOR
A power unit which converts electrical energy into mechanical energy, especially rotary motion.

RELAY

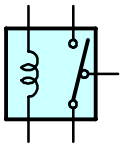
Basically, an electrically operated switch which may be normally closed (1) or open (2). Current flow through a small coil creates a magnetic field which either opens or closes an attached switch.



1. NORMALLY CLOSED

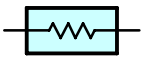


2. NORMALLY OPEN



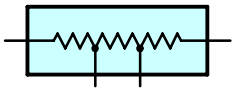
RELAY, DOUBLE THROW

A relay which passes current through one set of contacts or the other.



RESISTOR

An electrical component with a fixed resistance, placed in a circuit to reduce voltage to a specific value.



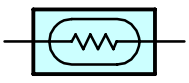
RESISTOR, TAPPED

A resistor which supplies two or more different non adjustable resistance values.



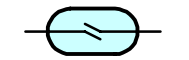
RESISTOR, VARIABLE or RHEOSTAT

A controllable resistor with a variable rate of resistance.
Also called a potentiometer or rheostat.



SENSOR (Thermistor)

A resistor which varies its resistance with temperature.



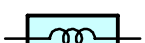
(Reed Switch Type)

SENSOR, SPEED

Uses magnetic impulses to open and close a switch to create a signal for activation of other components.

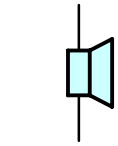
SHORT PIN

Used to provide an unbroken connection within a junction block.



SOLENOID

An electromagnetic coil which forms a magnetic field when current flows, to move a plunger, etc.

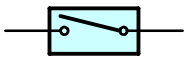


SPEAKER

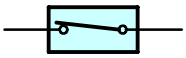
An electromechanical device which creates sound waves from current flow.

SWITCH, MANUAL

Opens and closes circuits, thereby stopping (1) or allowing (2) current flow.



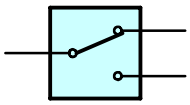
1. NORMALLY OPEN



2. NORMALLY CLOSED

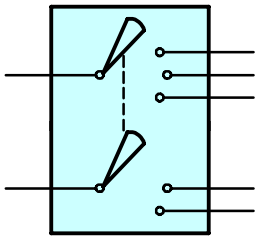
SWITCH, DOUBLE THROW

A switch which continuously passes current through one set of contacts or the other.



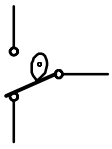
SWITCH, IGNITION

A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational.



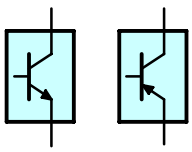
SWITCH, WIPER PARK

Automatically returns wipers to the stop position when the wiper switch is turned off.



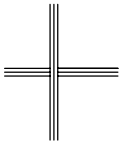
TRANSISTOR

A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at ”base”.

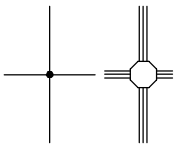


WIRES

Wires are always drawn as straight lines on wiring diagrams.
Crossed wires (1) without a black dot at the junction are not joined;
crossed wires (2) with a black dot or octagonal ( ) mark at the junction are spliced (joined) connections.

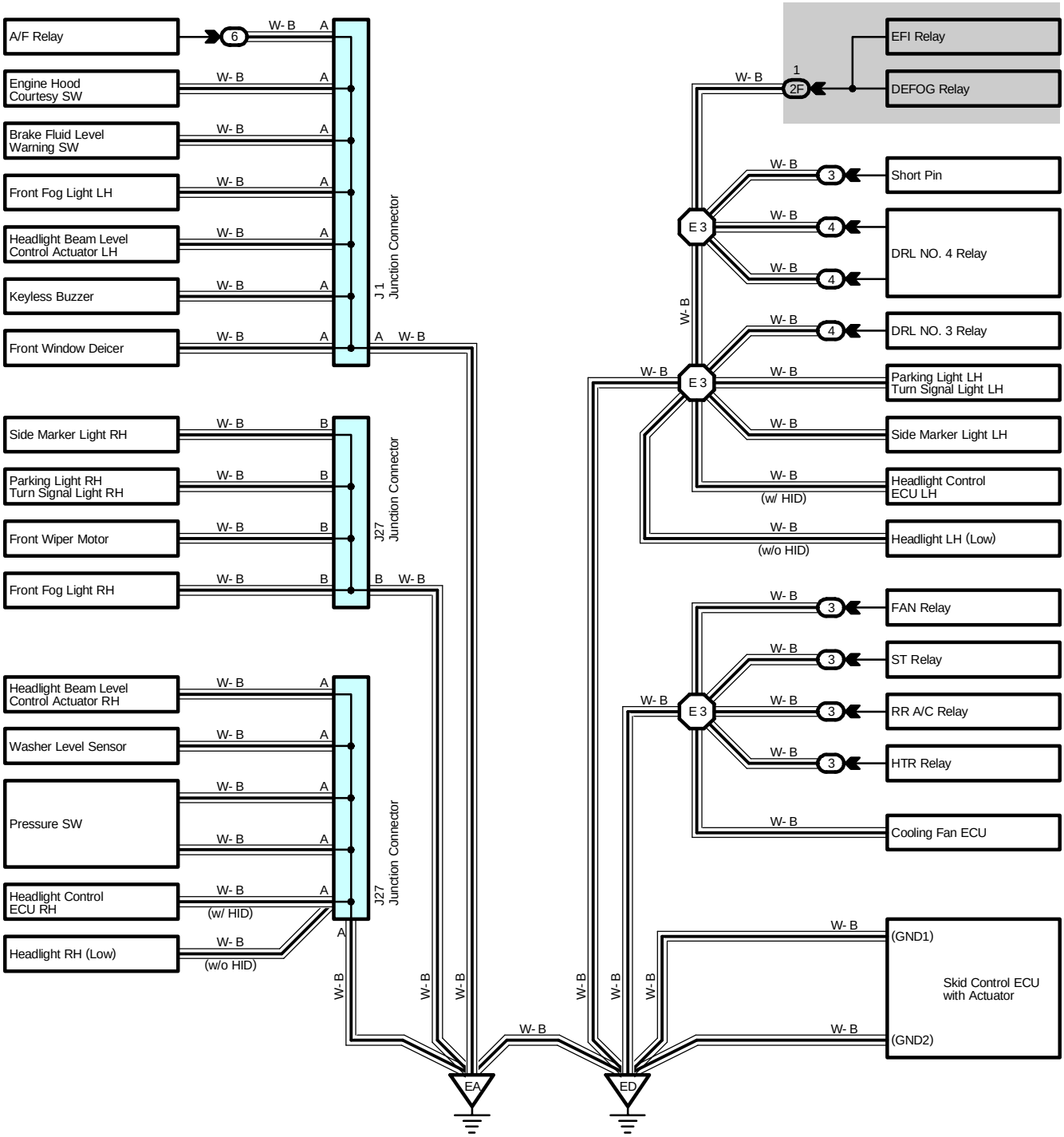


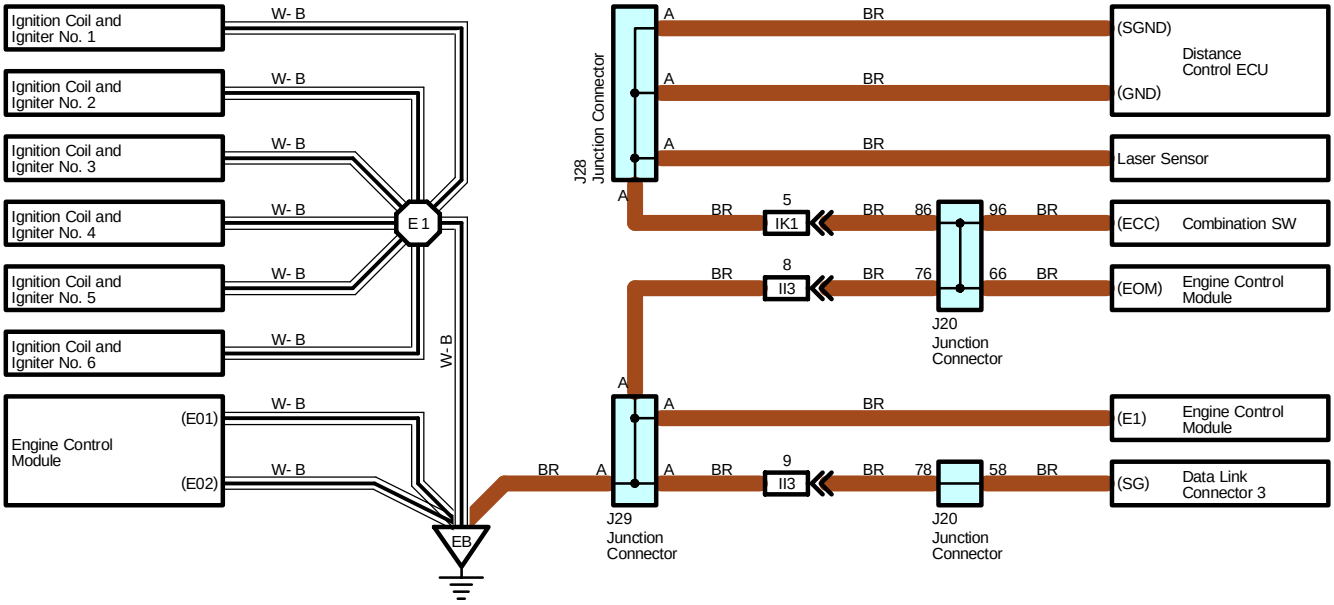
(1) NOT CONNECTED

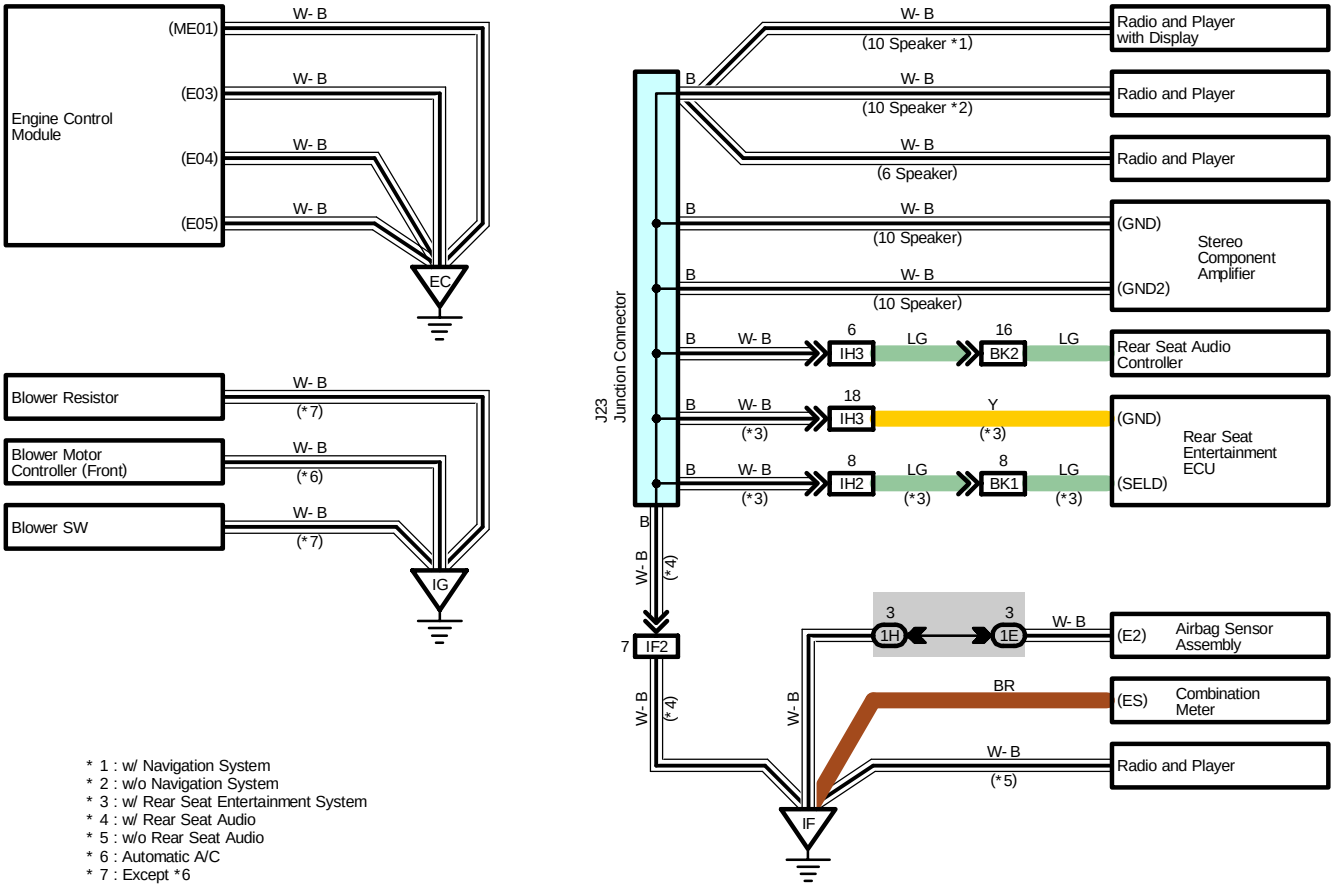


(2) SPLICED

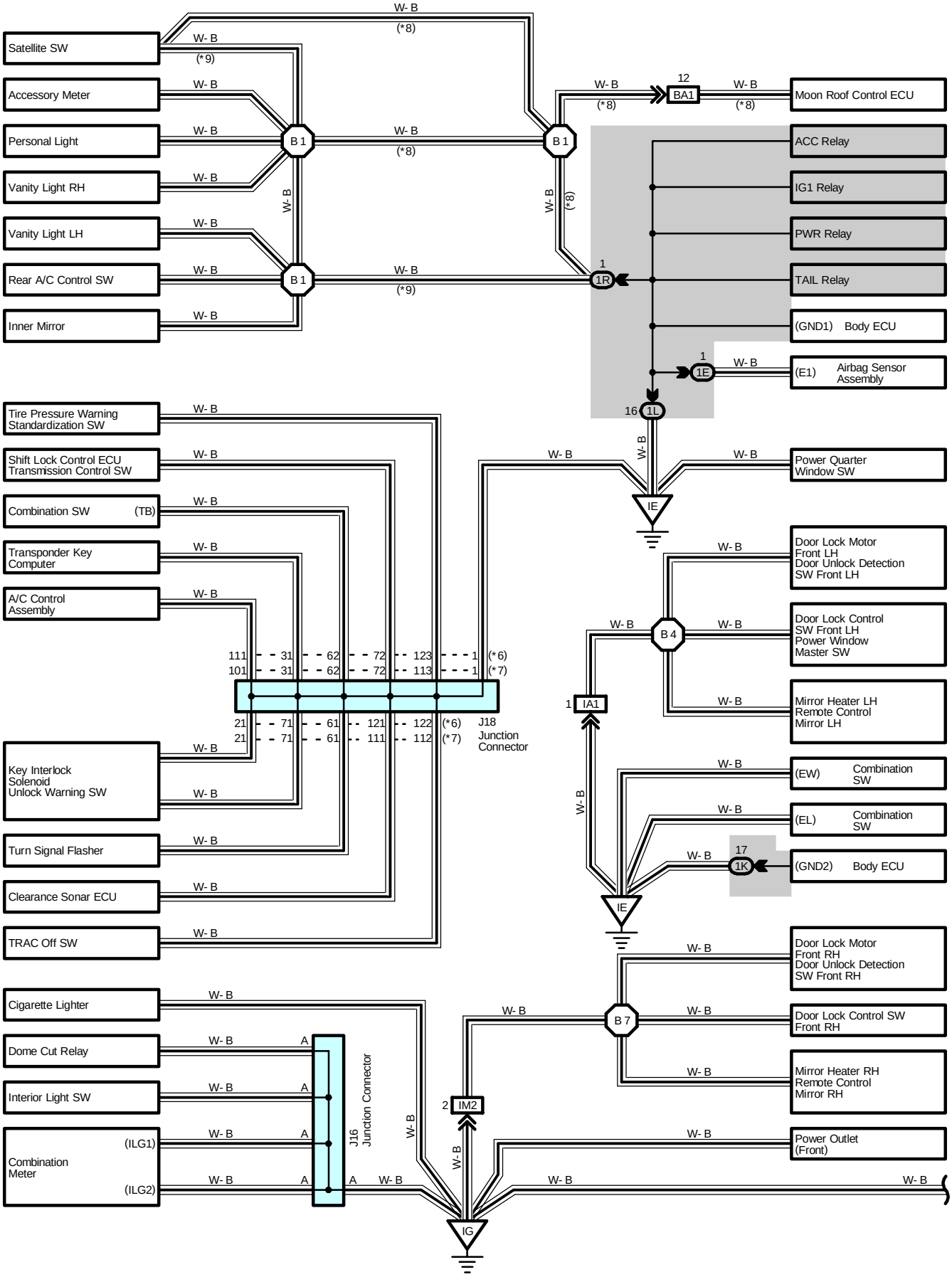
I GROUND POINT

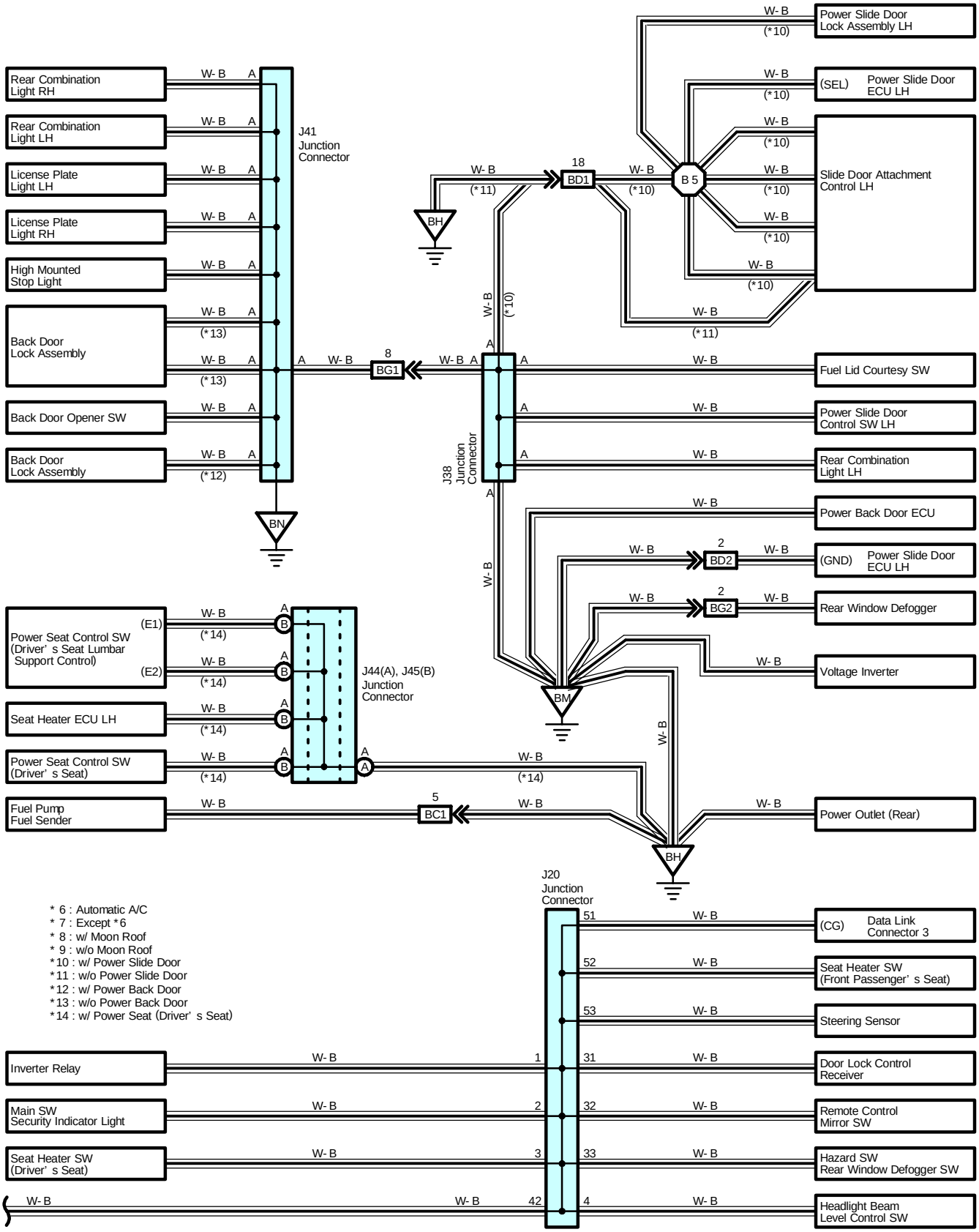




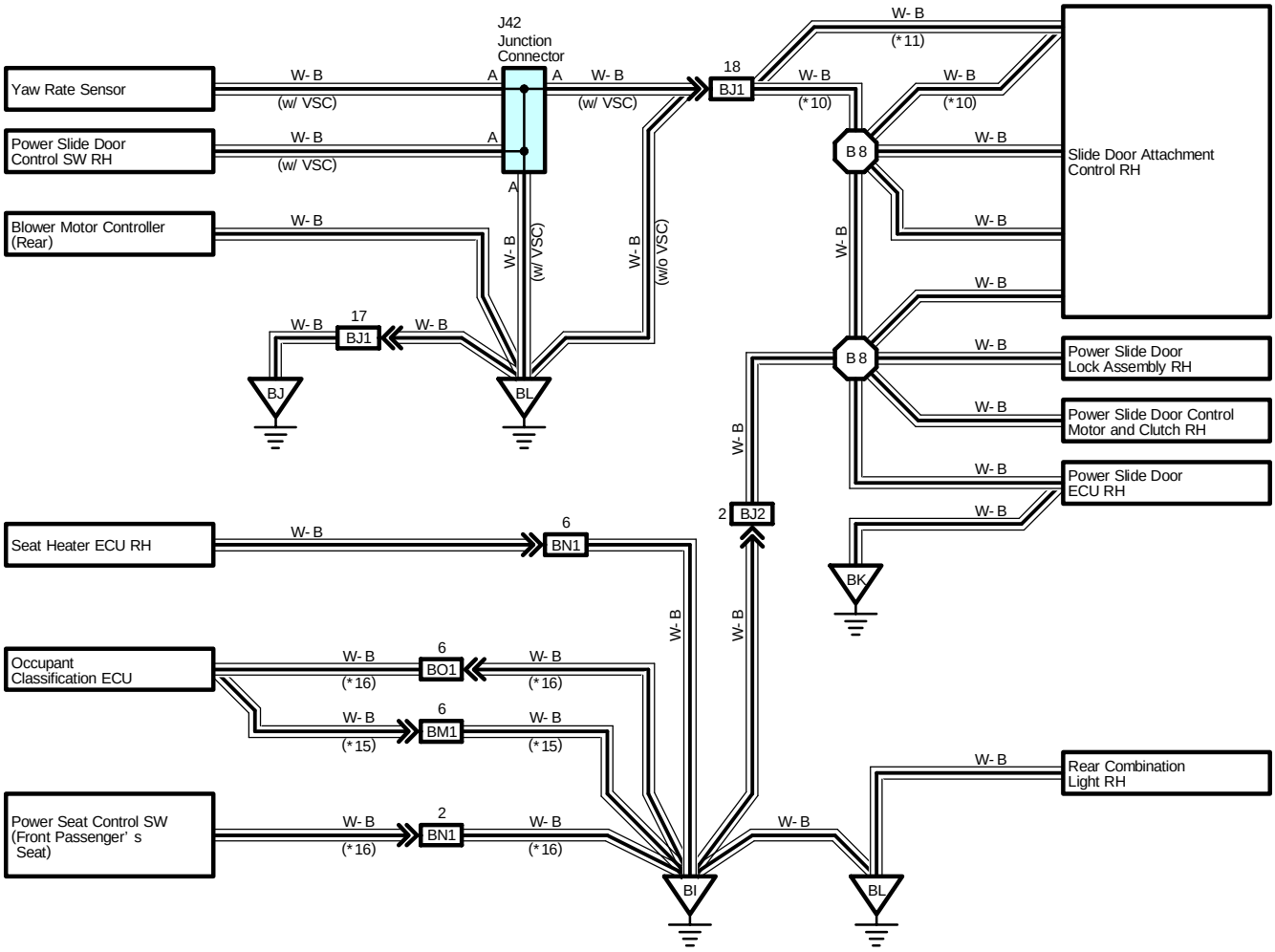


* 1 : w/ Navigation System
* 2 : w/o Navigation System
* 3 : w/ Rear Seat Entertainment System
* 4 : w/ Rear Seat Audio
* 5 : w/o Rear Seat Audio
* 6 : Automatic A/C
* 7 : Except *6


Satellite SW
Accessory Meter
Personal Light
Vanity Light RH
Vanity Light LH
Rear A/C Control SW
Inner Mirror
W- B
(*8)
(*9)
B 1
BA1
12
Moon Roof Control ECU
ACC Relay
IG1 Relay
PWR Relay
TAIL Relay
(GND1) Body ECU
1R
1E
(E1) Airbag Sensor Assembly
1L
16
Tire Pressure Warning Standardization SW
Shift Lock Control ECU Transmission Control SW
Combination SW (TB)
Transponder Key Computer
A/C Control Assembly
Power Quarter Window SW
IE
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
Door Lock Control SW Front LH
Power Window Master SW
Mirror Heater LH Remote Control Mirror LH
B 4
IA1
111 - 31 - 62 - 72 - 123 - 1 (*6)
101 - 31 - 62 - 72 - 113 - 1 (*7)
21 - 71 - 61 - 121 - 122 (*6)
21 - 71 - 61 - 111 - 112 (*7)
J18 Junction Connector
Key Interlock Solenoid Unlock Warning SW
Turn Signal Flasher
Clearance Sonar ECU
TRAC Off SW
(EW) Combination SW
(EL) Combination SW
(GND2) Body ECU
17
1K
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
Door Lock Control SW Front RH
Mirror Heater RH Remote Control Mirror RH
B 7
Power Outlet (Front)
Cigarette Lighter
Dome Cut Relay
Interior Light SW
Combination Meter
(ILG1)
(ILG2)
A
J16 Junction Connector
IM2
2
IG


Rear Combination Light RH
Rear Combination Light LH
License Plate Light LH
License Plate Light RH
High Mounted Stop Light
Back Door Lock Assembly
Back Door Opener SW
Back Door Lock Assembly
J41 Junction Connector
BG1
BN
BH
BD1
B 5
Power Slide Door Lock Assembly LH
(SEL) Power Slide Door ECU LH
Slide Door Attachment Control LH
J38 Junction Connector
Fuel Lid Courtesy SW
Power Slide Door Control SW LH
Rear Combination Light LH
Power Back Door ECU
BD2
(GND) Power Slide Door ECU LH
BG2
Rear Window Defogger
Voltage Inverter
BM
Power Seat Control SW (Driver's Seat Lumbar Support Control)
Seat Heater ECU LH
Power Seat Control SW (Driver's Seat)
J44(A), J45(B) Junction Connector
Fuel Pump Fuel Sender
BC1
Power Outlet (Rear)
J20 Junction Connector
(CG) Data Link Connector 3
Seat Heater SW (Front Passenger's Seat)
Steering Sensor
Door Lock Control Receiver
Remote Control Mirror SW
Hazard SW Rear Window Defogger SW
Headlight Beam Level Control SW
Inverter Relay
Main SW Security Indicator Light
Seat Heater SW (Driver's Seat)
* 6 : Automatic A/C
* 7 : Except *6
* 8 : w/ Moon Roof
* 9 : w/o Moon Roof
*10 : w/ Power Slide Door
*11 : w/o Power Slide Door
*12 : w/ Power Back Door
*13 : w/o Power Back Door
*14 : w/ Power Seat (Driver's Seat)

I GROUND POINT



*10 : w/ Power Slide Door
*11 : w/o Power Slide Door
*15 : w/o Power Seat
*16 : w/ Power Seat (Front Passenger' s Seat)

: Parts Location

Code	See Page	Code	See Page	Code		See Page
J1	33	J27	36	J42		39
J16	36	J28	36	J44	A	42 (*1)
J18	36	J29	36	J45	B	42 (*1)
J20	36	J38	39			
J23	36	J41	39			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	24	R/B No.3 (Engine Compartment Left)
4	24	R/B No.4 (Engine Compartment Left)
6	25	R/B No.6 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	27	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H	26	
1K	27	
1L		
1R	27	Roof Wire and Driver Side J/B (Lower Finish Panel)
2F	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IF2	46	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
IH2	46	Floor No.2 Wire and Instrument Panel No.2 Wire (Instrument Panel Brace RH)
IH3		
II3	48	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IK1	48	Engine Room Main Wire and Instrument Panel Wire (Right Kick Panel)
IM2	48	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BA1	50	Roof No.3 Wire and Roof Wire (Front Side of the Roof)
BC1	50	Fuel Gauge Wire and Floor No.1 Wire (Near the Fuel Tank)
BD1	50	Rear Door No.2 Wire and Floor No.1 Wire (On the Left Rear Wheel House)
BD2		
BG1	52	Back Door No.1 Wire and Floor No.1 Wire (Left Rear Quarter Panel)
BG2		
BJ1	52	Rear Door No.1 Wire and Floor No.2 Wire (On the Right Rear Wheel House)
BJ2		
BK1	52	Roof No.2 Wire and Floor No.2 Wire (Right Rear Quarter Panel)
BK2		
BM1	54 (*2)	Floor No.2 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)
BN1	54 (*1)	
BO1	54 (*1)	Seat No.1 Wire and Floor No.2 Wire (Under the Front Passenger's Seat)

* 1 : w/ Power Seat * 2 : w/o Power Seat

I GROUND POINT

▽ : **Ground Points**

Code	See Page	Ground Points Location
EA	44	Front Side of the Right Fender Apron
EB	44	Rear Bank of Right Cylinder Head
EC	44	Rear Bank of Left Cylinder Head
ED	44	Front Side of the Left Fender Apron
IE	46	Left Kick Panel
IF	46	Instrument Panel Brace LH
IG	46	Right Kick Panel
BH	50	Under the Left Center Pillar
BI	50	Under the Right Center Pillar
BJ	50	Inside of the Slide Door RH
BK		
BL	50	Right Rear Quarter Panel
BM	50	Left Rear Quarter Panel
BN	50	Left Side of the Back Door

○ : **Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	44	Engine Wire	B5	52	Rear Door No.2 Wire
E3	44	Engine Room Main Wire	B7	52	Front Door RH Wire
B1	52	Roof Wire	B8	52	Rear Door No.1 Wire
B4	52	Front Door LH Wire			

This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

The actual wiring of each system circuit is shown from the point where the power source is received from the battery as far as each ground point. (All circuit diagrams are shown with the switches in the OFF position.)

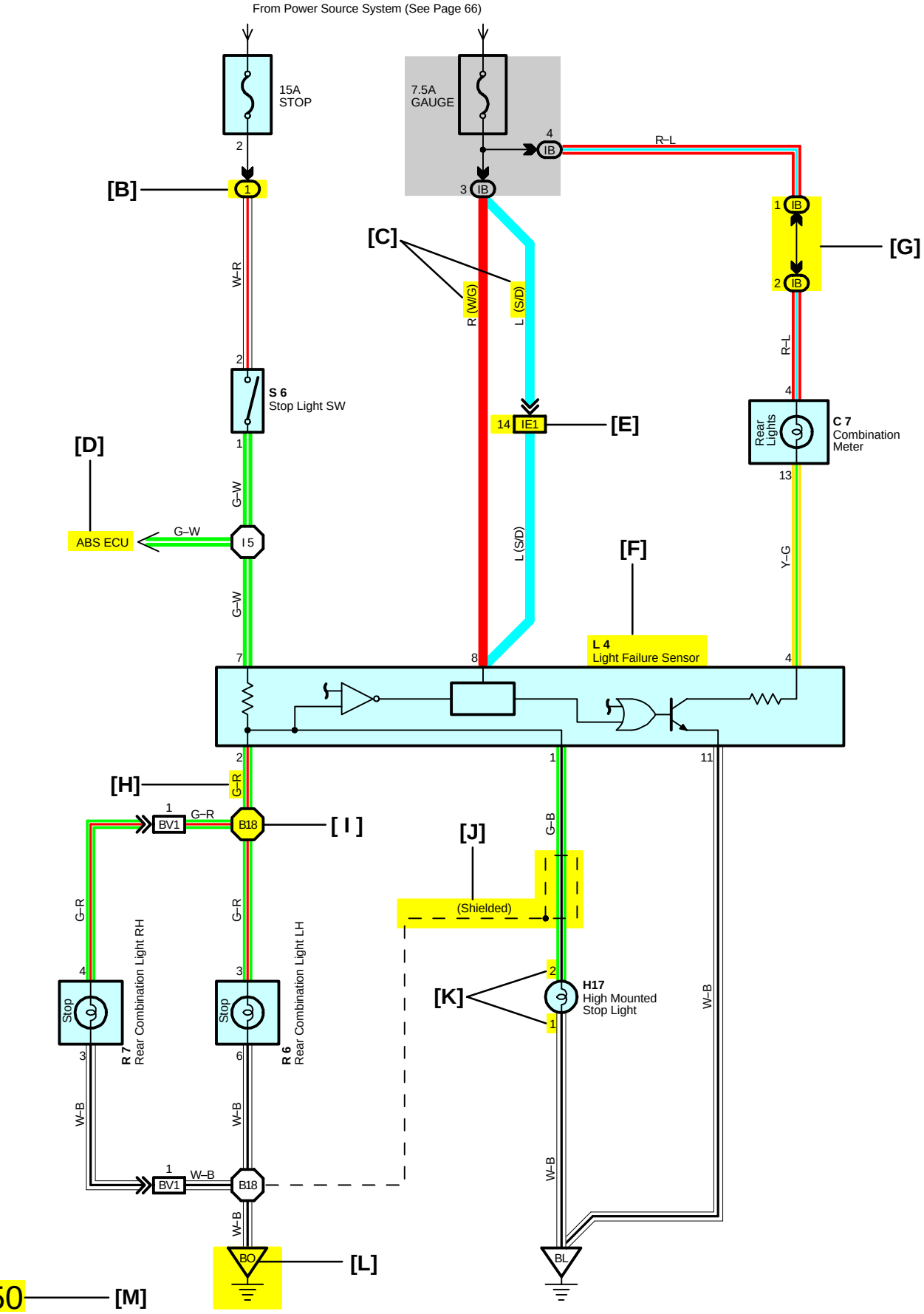
When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand the circuit operation.

When the circuit operation is understood, begin troubleshooting of the problem circuit to isolate the cause. Use Relay Location and Electrical Wiring Routing sections to find each part, junction block and wiring harness connectors, wiring harness and wiring harness connectors, splice points, and ground points of each system circuit. Internal wiring for each junction block is also provided for better understanding of connection within a junction block.
Wiring related to each system is indicated in each system circuit by arrows (from__, to__). When overall connections are required, see the Overall Electrical Wiring Diagram at the end of this manual.

[A]

Stop Light

* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



[A] : System Title

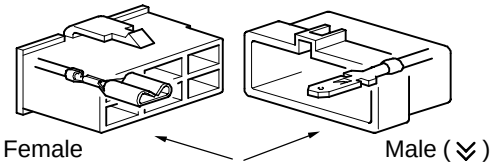
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

Example: (1) Indicates Relay Block No.1

[C] : ( ) is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[D] : Indicates related system.

[E] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (»).
Outside numerals are pin numbers.



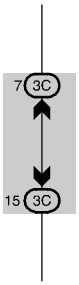
The first letter of the code for each wiring harness and wiring harness connector(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

When more than one code has the first and second letters in common, followed by numbers (e.g, IH1, IH2), this indicates the same type of wiring harness and wiring harness connector.

[F] : Represents a part (all parts are shown in sky blue). The code is the same as the code used in parts position.

[G] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



3C indicates that it is inside Junction Block No.3

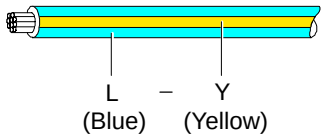
[H] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

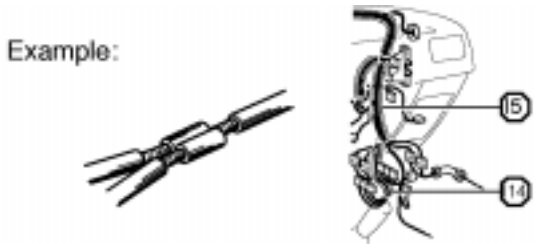
B	= Black	W	= White	BR	= Brown
L	= Blue	V	= Violet	SB	= Sky Blue
R	= Red	G	= Green	LG	= Light Green
P	= Pink	Y	= Yellow	GR	= Gray
O	= Orange				

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L - Y

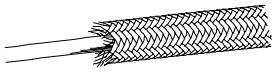


[I] : Indicates a wiring Splice Point (Codes are "E" for the Engine Room, "I" for the Instrument Panel, and "B" for the Body).



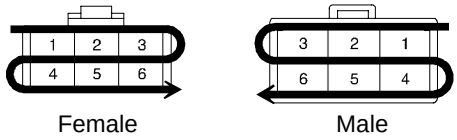
The Location of splice Point I 5 is indicated by the shaded section.

[J] : Indicates a shielded cable.



[K] : Indicates the pin number of the connector.
The numbering system is different for female and male connectors.

Example:



[L] : Indicates a ground point.

The first letter of the code for each ground point(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

[M] : Page No.

[N] **System Outline**

Current is applied at all times through the STOP fuse to TERMINAL 2 of the stop light SW.
When the ignition SW is turned on, current flows from the GAUGE fuse to TERMINAL 8 of the light failure sensor, and also flows through the rear lights warning light to TERMINAL 4 of the light failure sensor.

Stop Light Disconnection Warning

When the ignition SW is turned on and the brake pedal is pressed (Stop light SW on), if the stop light circuit is open, the current flowing from TERMINAL 7 of the light failure sensor to TERMINALS 1, 2 changes, so the light failure sensor detects the disconnection and the warning circuit of the light failure sensor is activated.
As a result, the current flows from TERMINAL 4 of the light failure sensor to TERMINAL 11 to GROUND and turns the rear lights warning light on. By pressing the brake pedal, the current flowing to TERMINAL 8 of the light failure sensor keeps the warning circuit on and holds the warning light on until the ignition SW is turned off.

[O] **Service Hints**

S6 Stop Light SW

2-1 : Closed with the brake pedal depressed

L4 Light Failure Sensor

1, 2, 7-Ground : Approx. 12 volts with the stop light SW on
4, 8-Ground : Approx. 12 volts with the ignition SW at ON position
11-Ground : Always continuity

[P] **: Parts Location**

Code	See Page	Code	See Page	Code	See Page
C7	34	L4	36	R7	37
H17	36	R6	37	S6	35

[Q] **: Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	18	R/B No.1 (Instrument Panel Brace LH)

[R] **: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	20	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3C	22	Instrument Panel Wire and J/B No.3 (Instrument Panel Brace LH)

[S] **: Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	42	Floor Wire and Instrument Panel Wire (Left Kick Panel)
BV1	50	Luggage Room Wire and Floor Wire (Luggage Room Left)

[T] **: Ground Points**

Code	See Page	Ground Points Location
BL	50	Under the Left Center Pillar
BO	50	Back Panel Center

[U] **: Splice Points**

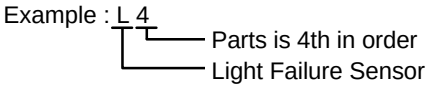
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I5	44	Cowl Wire	B18	50	Luggage Room Wire

[N] : Explains the system outline.

[O] : Indicates values or explains the function for reference during troubleshooting.

[P] : Indicates the reference page showing the position on the vehicle of the parts in the system circuit.

Example : Part ”L4” (Light Failure Sensor) is on page 36 of the manual.
∗ The letter in the code is from the first letter of the part, and the number indicates its order in parts starting with that letter.



[Q] : Indicates the reference page showing the position on the vehicle of Relay Block Connectors in the system circuit.

Example : Connector ”1” is described on page 18 of this manual and is installed on the left side of the instrument panel.

[R] : Indicates the reference page showing the position on the vehicle of J/B and Wire Harness in the system circuit.

Example : Connector ”3C” connects the Instrument Panel Wire and J/B No.3. It is described on page 22 of this manual, and is installed on the instrument panel left side.

[S] : Indicates the reference page describing the wiring harness and wiring harness connector (the female wiring harness is shown first, followed by the male wiring harness).

Example : Connector ”IE1” connects the floor wire (female) and Instrument panel wire (male). It is described on page 42 of this manual, and is installed on the left side kick panel.

[T] : Indicates the reference page showing the position of the ground points on the vehicle.

Example : Ground point ”BO” is described on page 50 of this manual and is installed on the back panel center.

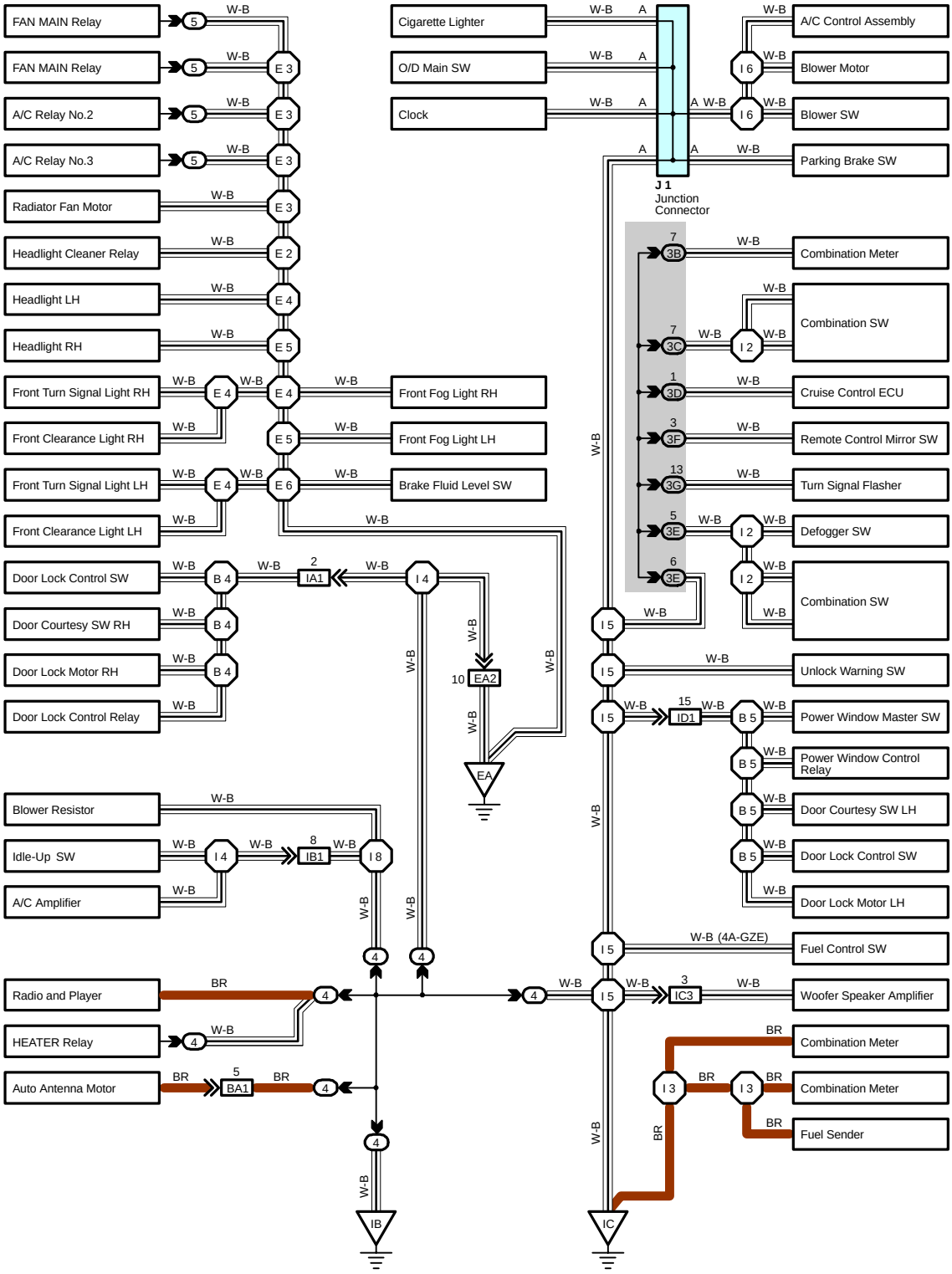
[U] : Indicates the reference page showing the position of the splice points on the vehicle.

Example : Splice point ”I5” is on the Cowl Wire Harness and is described on page 44 of this manual.

B HOW TO USE THIS MANUAL

The ground points circuit diagram shows the connections from all major parts to the respective ground points. When troubleshooting a faulty ground point, checking the system circuits which use a common ground may help you identify the problem ground quickly. The relationship between ground points (EA , IB and IC shown below) can also be checked this way.

I GROUND POINT

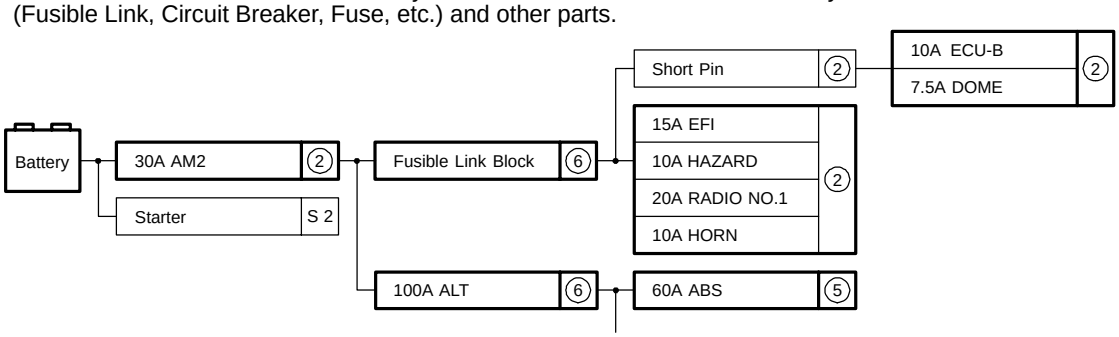


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

The ”Current Flow Chart” section, describes which parts each power source (fuses, fusible links, and circuit breakers) transmits current to. In the Power Source circuit diagram, the conditions when battery power is supplied to each system are explained. Since all System Circuit diagrams start from the power source, the power source system must be fully understood.

J POWER SOURCE (Current Flow Chart)

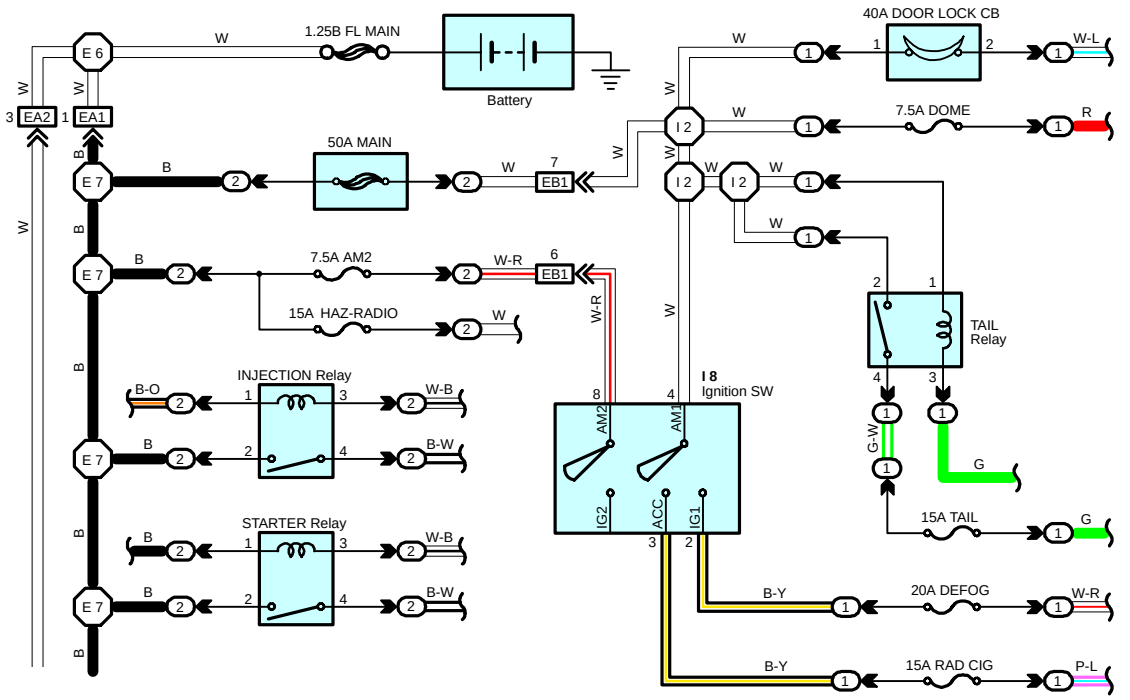
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other parts.



Engine Room R/B (See Page 20)

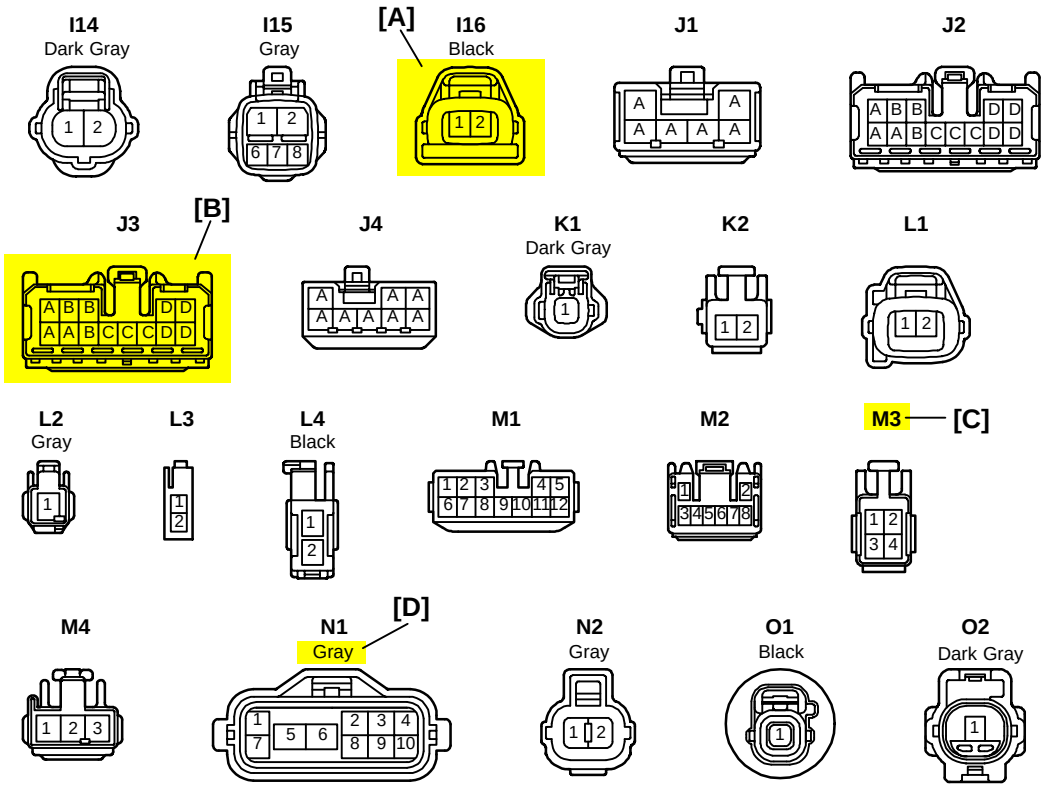
Fuse		System	Page
20A	STOP	ABS ABS and Traction Control Cruise Control Electronically Controlled Transmission Multiplex Communication System	194 187 180 166 210
10A	DOME	Cigarette Lighter Combination Meter Headlight Interior Light Key Reminder and Seat Belt Warning Light Auto Turn Off	214 230 112 122

Power Source



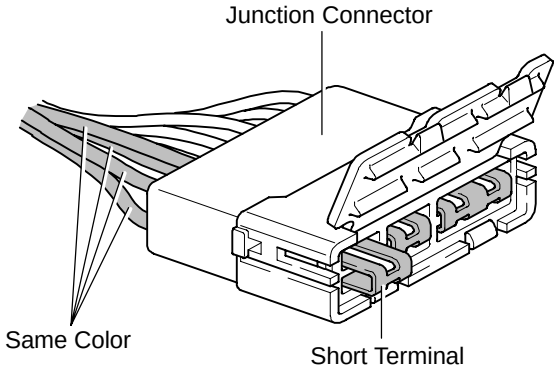
* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

K CONNECTOR LIST



[A] : Indicates connector to be connected to a part. (The numeral indicates the pin No.)

[B] : Junction Connector
Indicates a connector which is connected to a short terminal.



Junction connector in this manual include a short terminal which is connected to a number of wire harnesses. Always perform inspection with the short terminal installed. (When installing the wire harnesses, the harnesses can be connected to any position within the short terminal grouping. Accordingly, in other vehicles, the same position in the short terminal may be connected to a wire harness from a different part.)
Wire harness sharing the same short terminal grouping have the same color.

[C] : Parts Code
The first letter of the code is taken from the first letter of part, and the numbers indicates its order in parts which start with the same letter.

[D] : Connector Color
Connectors not indicated are milky white in color.

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070
A 2	A/C Condenser Fan Motor	90980-11237
A 3	A/C Condenser Fan Relay	90980-10940
A 4	A/C Condenser Fan Resistor	90980-10928
A 5	A/C Magnetic Clutch	90980-11271
A 6	A/T Oil Temp. Sensor	90980-11413
[A]	[B]	[C]
A 8	ABS Actuator	90980-11009
A 9	ABS Speed Sensor Front LH	90980-10941
A10	ABS Speed Sensor Front RH	90980-11002
A11	Airbag Sensor Front LH	90980-11856
A12	Airbag Sensor Front RH	
A13		90980-11194
		90980-11

Code	Part Name	Part Number
D 4	Diode (Courtesy)	90980-11608
D 5	Diode (Interior Light)	90980-10962
D 6	Diode (Moon Roof)	90980-11608
D 7	Door Lock Control Relay	90980-10848
D 8	Door Lock Control SW LH	90980-11148
D 9	Door Lock Control SW RH	
D10	Door Courtesy SW LH	90980-11097
D11	Door Courtesy SW RH	
D12	Door Courtesy SW Front LH	90980-11156
D13	Door Courtesy SW Front RH	
D14	Door Courtesy SW Rear LH	
D15	Door Courtesy SW Rear RH	
D16	and Unlock SW LH	90980-11170
	RH	

[A] : Part Code

[B] : Part Name

[C] : Part Number
Toyota Part Number are indicated.

Not all of the above part numbers of the connector are established for the supply.

2005 SIENNA
ELECTRICAL WIRING DIAGRAM

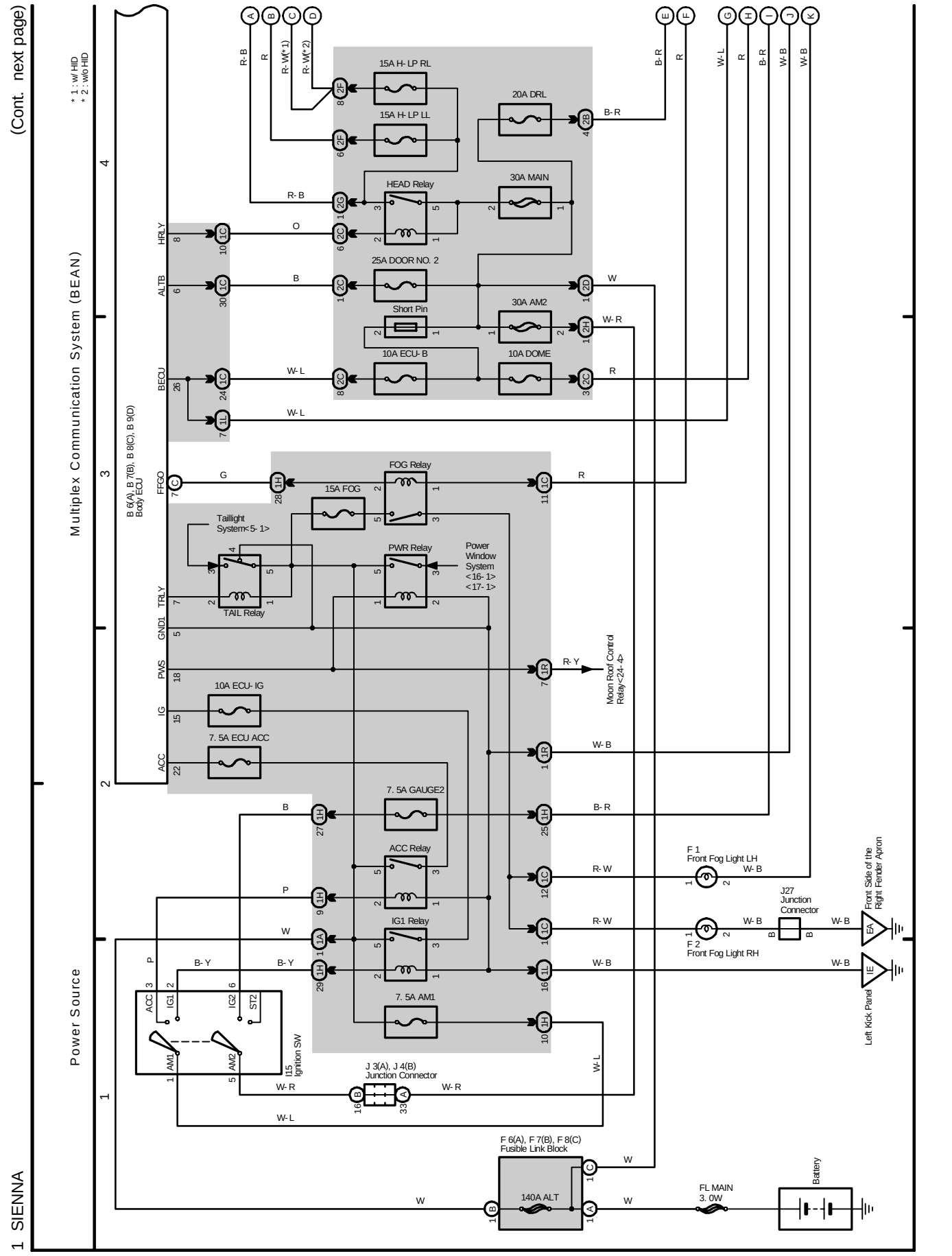
	Section Code	Page
INTRODUCTION	A	2
HOW TO USE THIS MANUAL	B	3
TROUBLESHOOTING	C	12
ABBREVIATIONS	D	17
GLOSSARY OF TERMS AND SYMBOLS	E	18
RELAY LOCATIONS	F	20
ELECTRICAL WIRING ROUTING	G	32
SYSTEM CIRCUITS	H	56
GROUND POINT	I	366
POWER SOURCE (Current Flow Chart)	J	374
CONNECTOR LIST	K	384
PART NUMBER OF CONNECTORS	L	402
OVERALL ELECTRICAL WIRING DIAGRAM	M	408

A INTRODUCTION

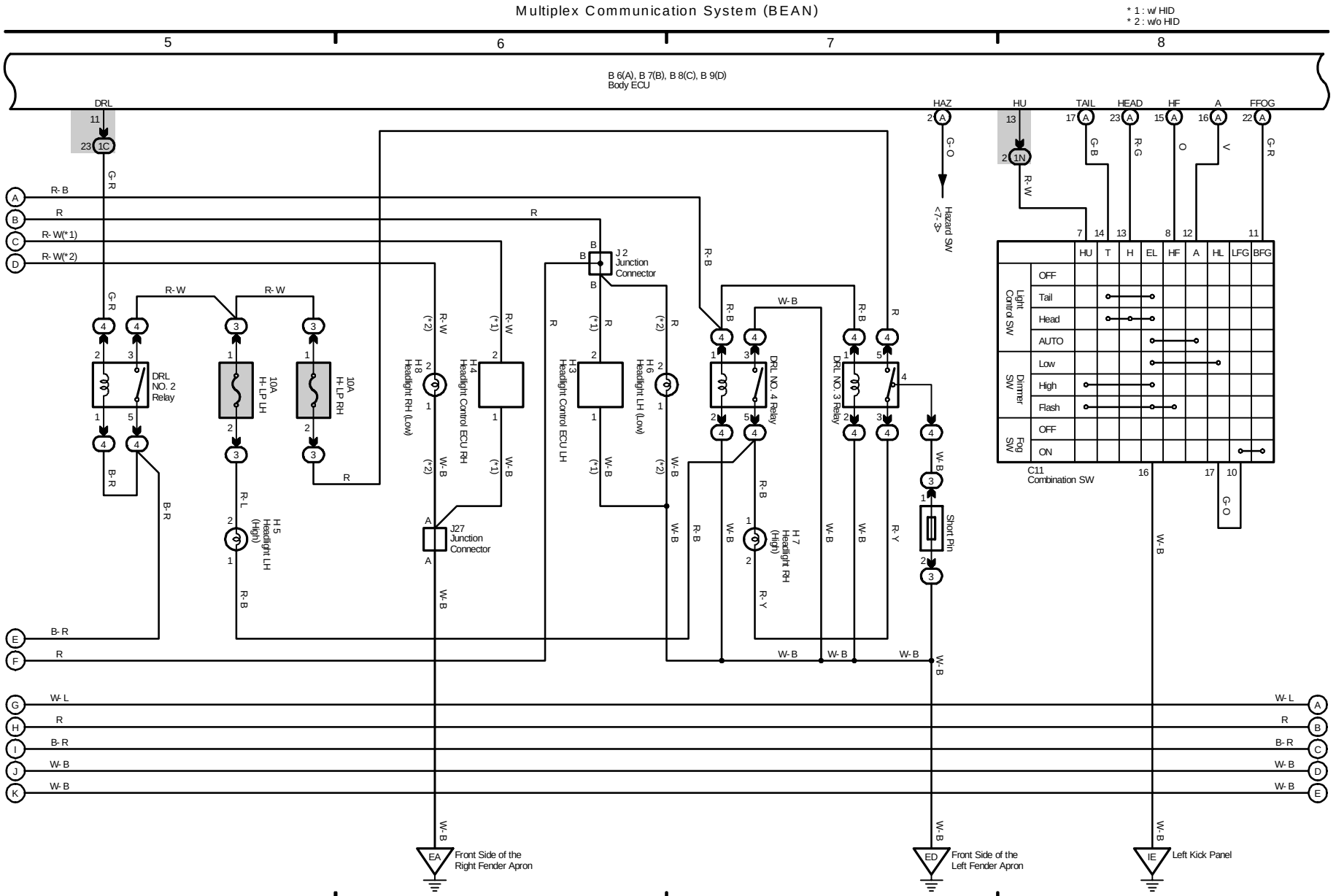
This manual consists of the following 13 sections:

No.	Section	Description
A	INDEX	Index of the contents of this manual.
	INTRODUCTION	Brief explanation of each section.
B	HOW TO USE THIS MANUAL	Instructions on how to use this manual.
C	TROUBLE-SHOOTING	Describes the basic inspection procedures for electrical circuits.
D	ABBREVIATIONS	Defines the abbreviations used in this manual.
E	GLOSSARY OF TERMS AND SYMBOLS	Defines the symbols and functions of major parts.
F	RELAY LOCATIONS	Shows position of the Electronic Control Unit, Relays, Relay Block, etc. This section is closely related to the system circuit.
G	ELECTRICAL WIRING ROUTING	Describes position of Parts Connectors, Splice points, Ground points, etc. This section is closely related to the system circuit.
H	INDEX	Index of the system circuits.
	SYSTEM CIRCUITS	Electrical circuits of each system are shown from the power supply through ground points. Wiring connections and their positions are shown and classified by code according to the connection method. (Refer to the section, ”How to use this manual”). The ”System Outline” and ”Service Hints” useful for troubleshooting are also contained in this section.
I	GROUND POINT	Shows ground positions of all parts described in this manual.
J	POWER SOURCE (Current Flow Chart)	Describes power distribution from the power supply to various electrical loads.
K	CONNECTOR LIST	Describes the form of the connectors for the parts appeared in this book. This section is closely related to the system circuit.
L	PART NUMBER OF CONNECTORS	Indicates the part number of the connectors used in this manual.
M	OVERALL ELECTRICAL WIRING DIAGRAM	Provides circuit diagrams showing the circuit connections.

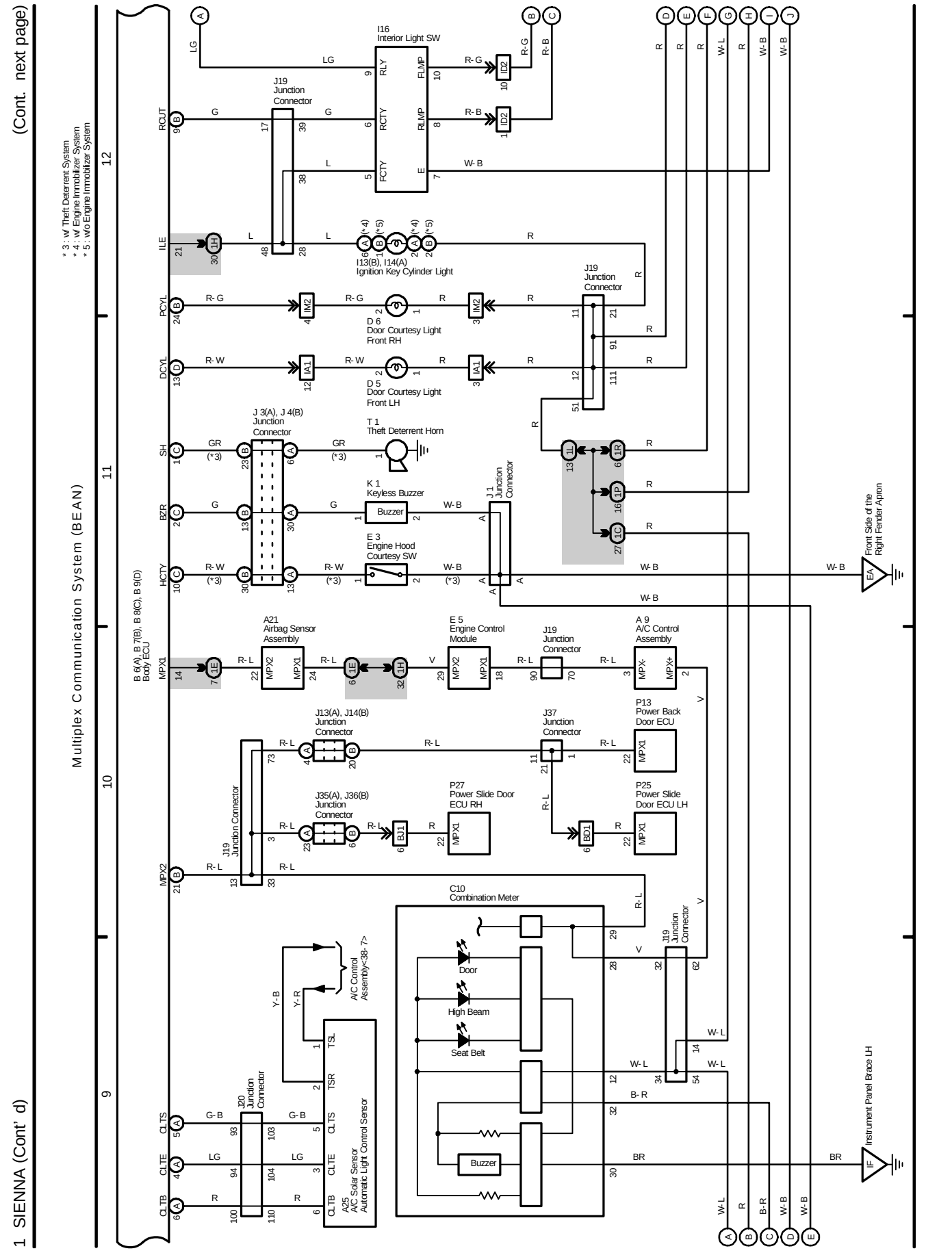
M OVERALL ELECTRICAL WIRING DIAGRAM



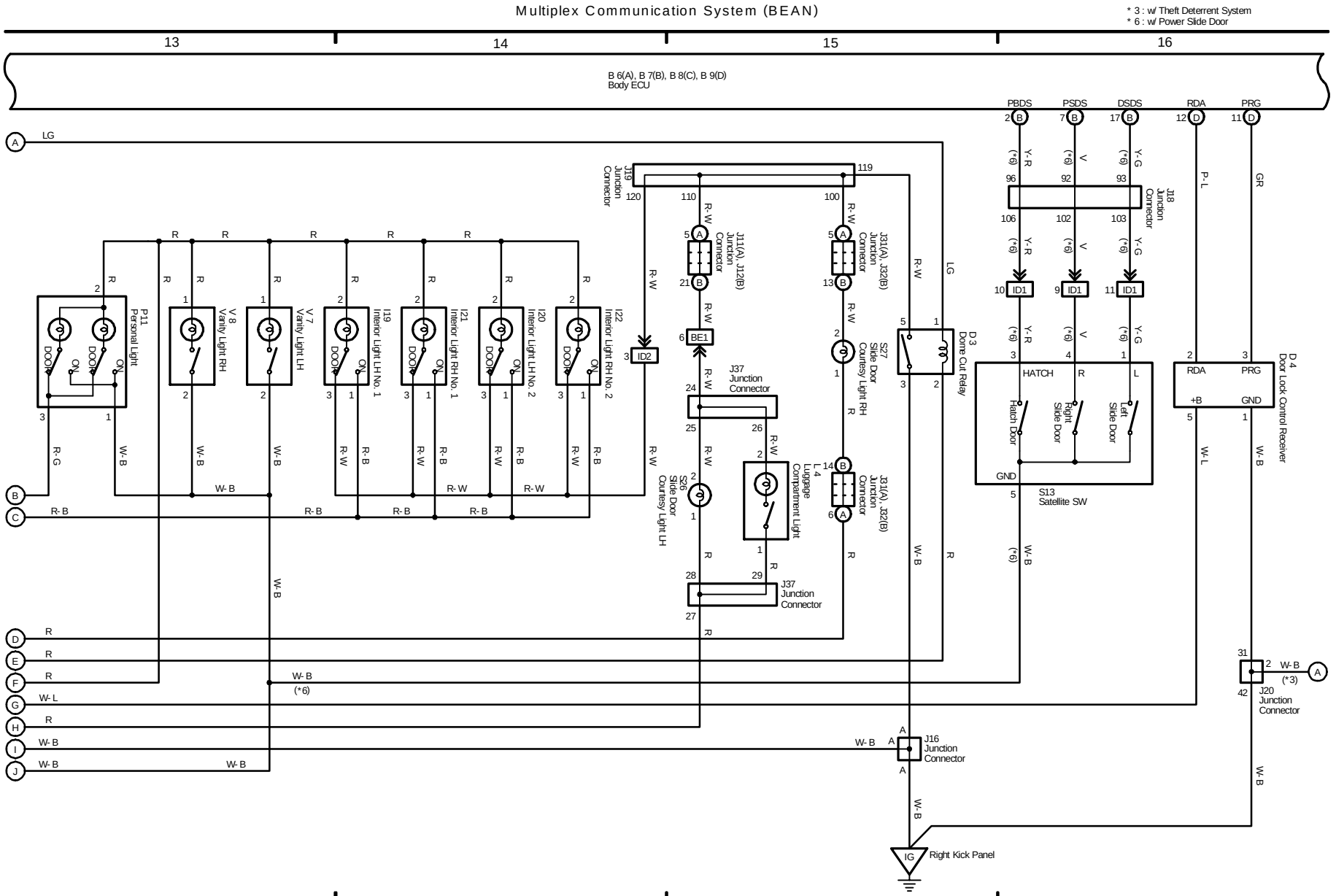
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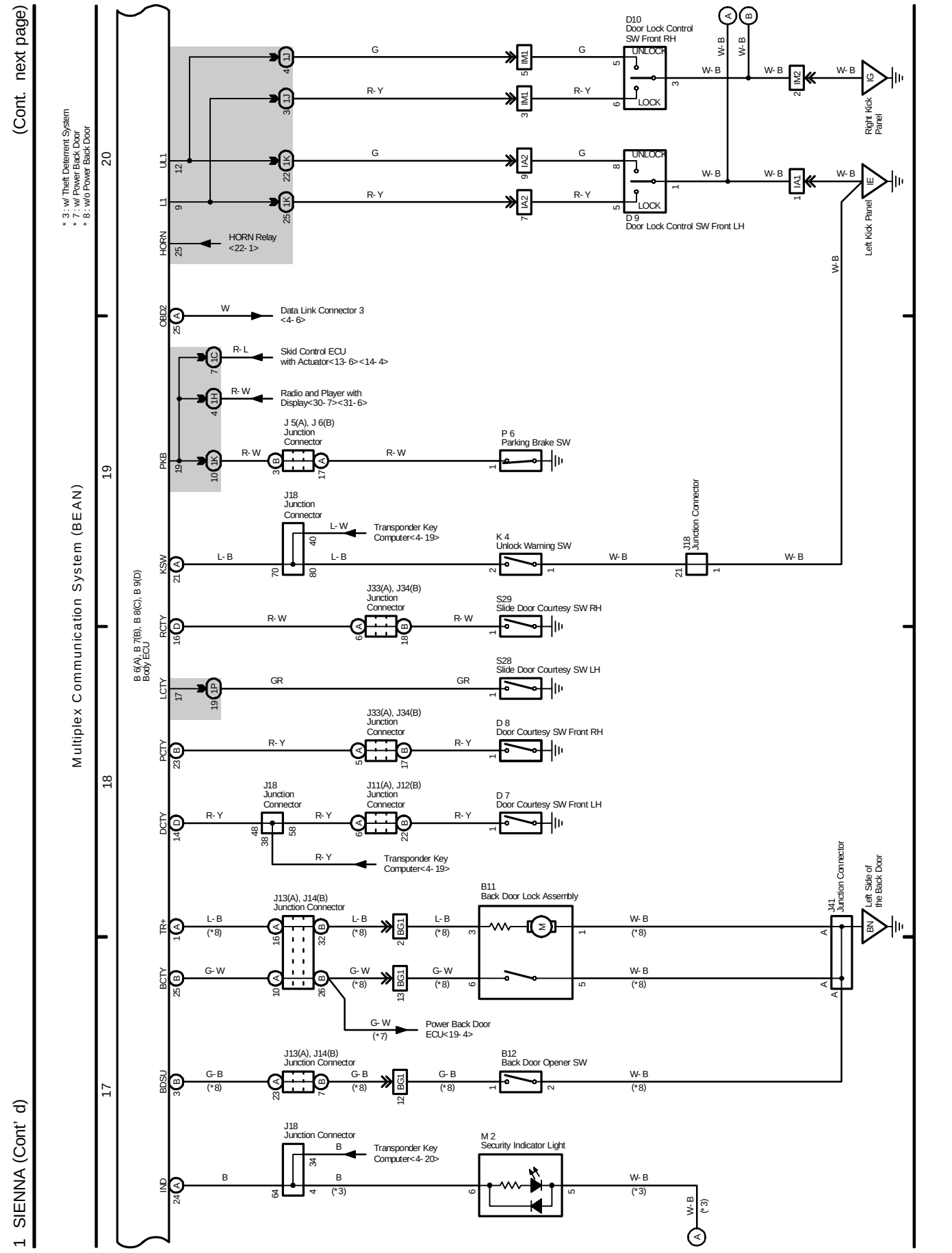
M OVERALL ELECTRICAL WIRING DIAGRAM

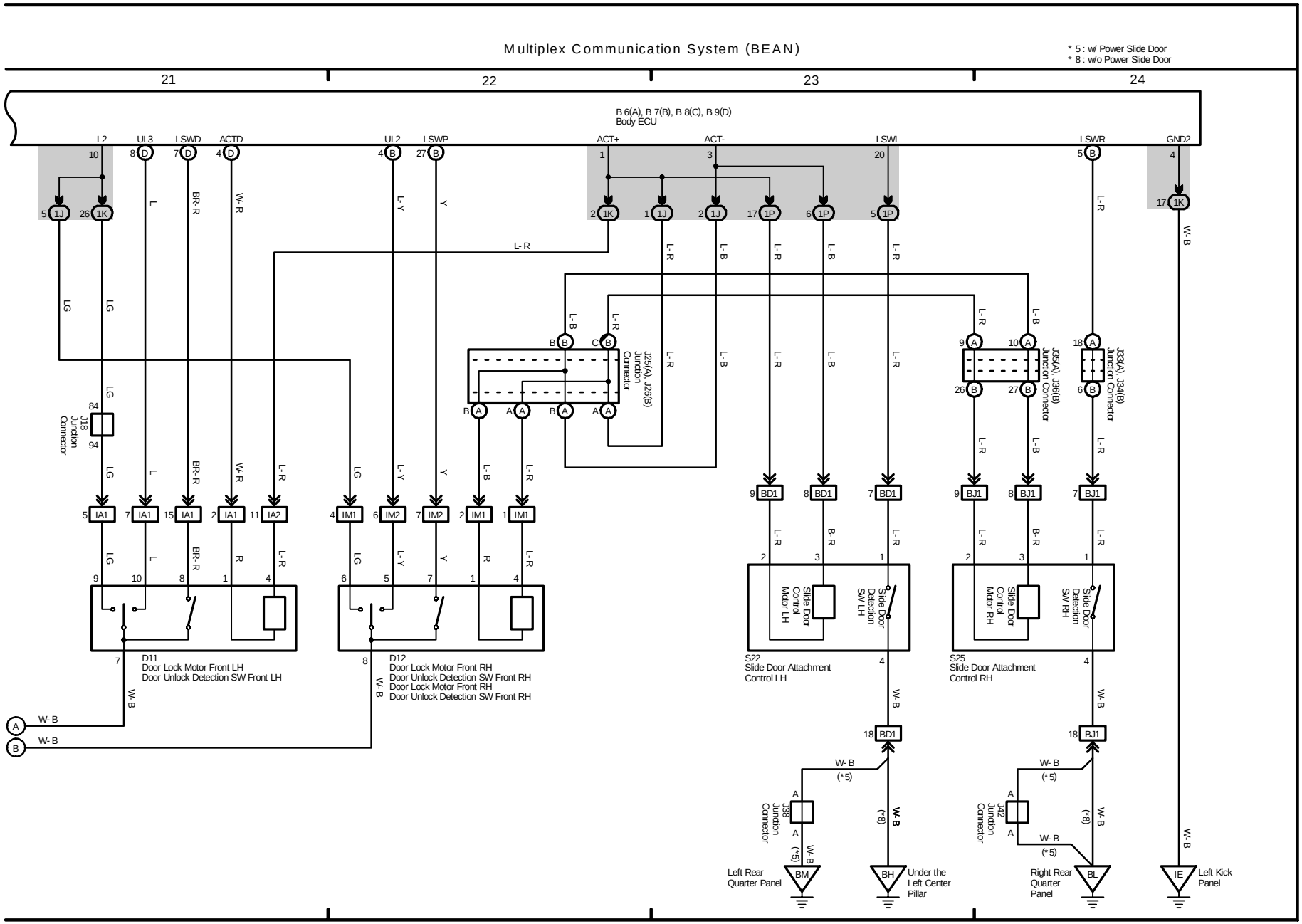


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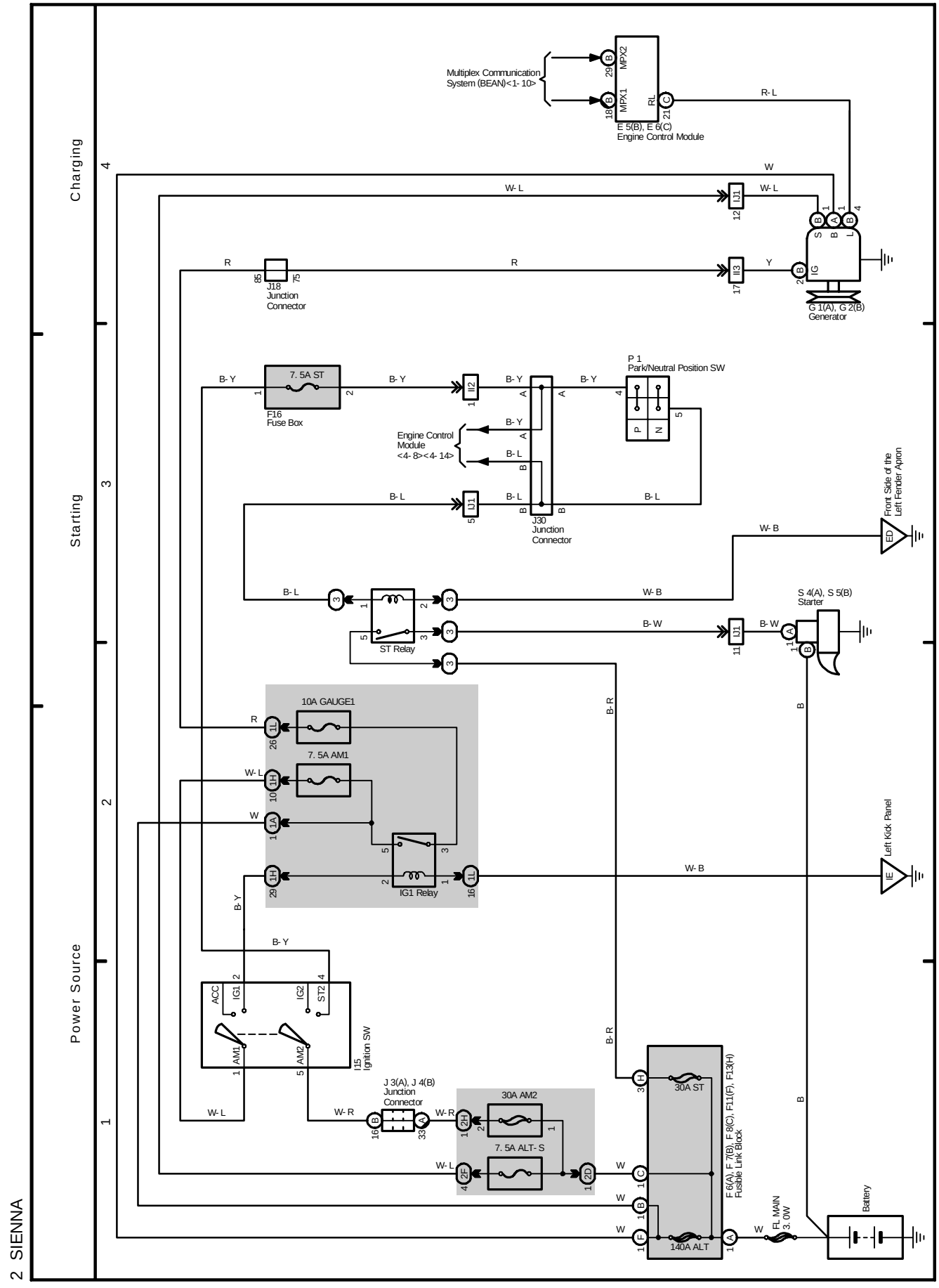


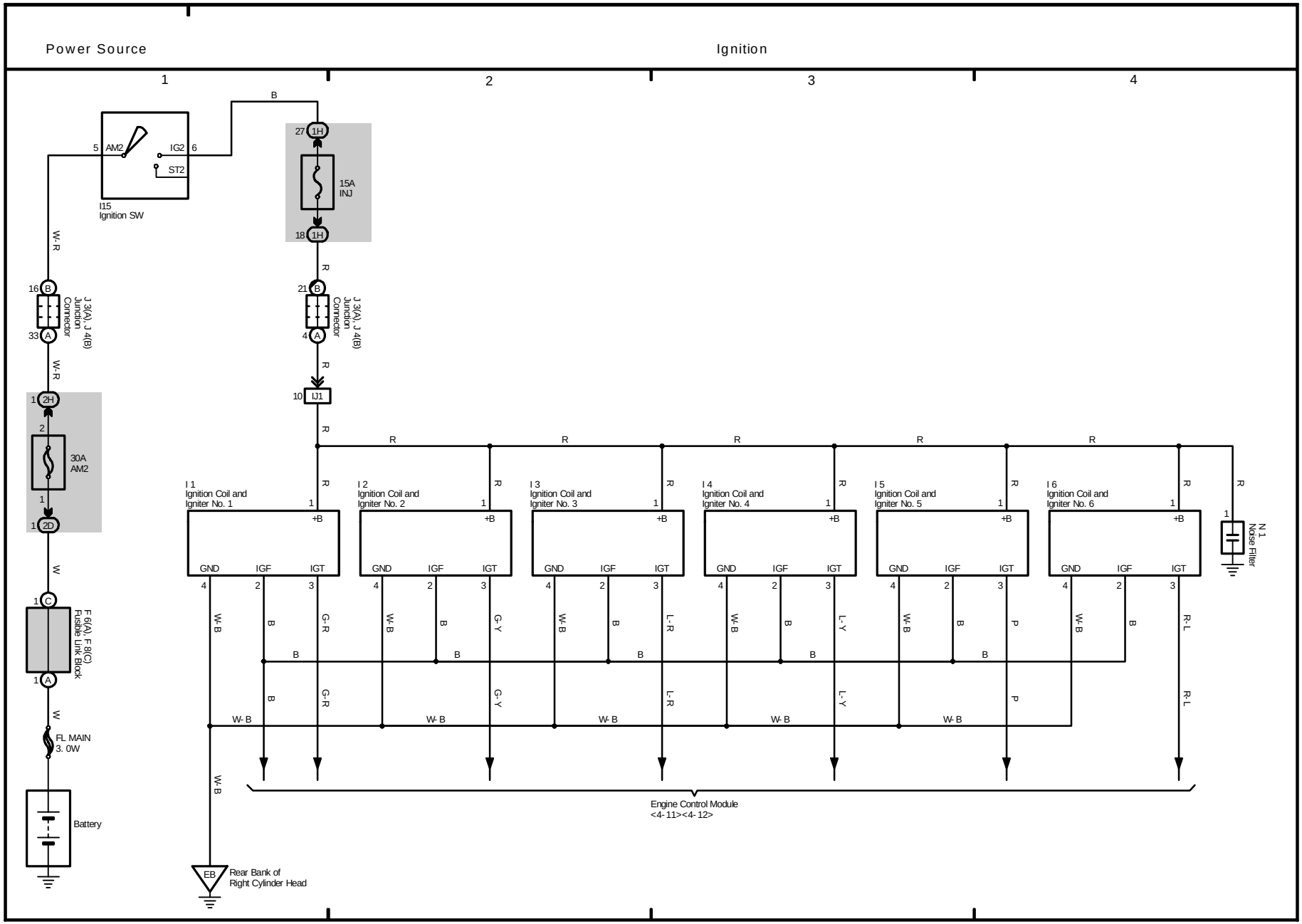
M OVERALL ELECTRICAL WIRING DIAGRAM



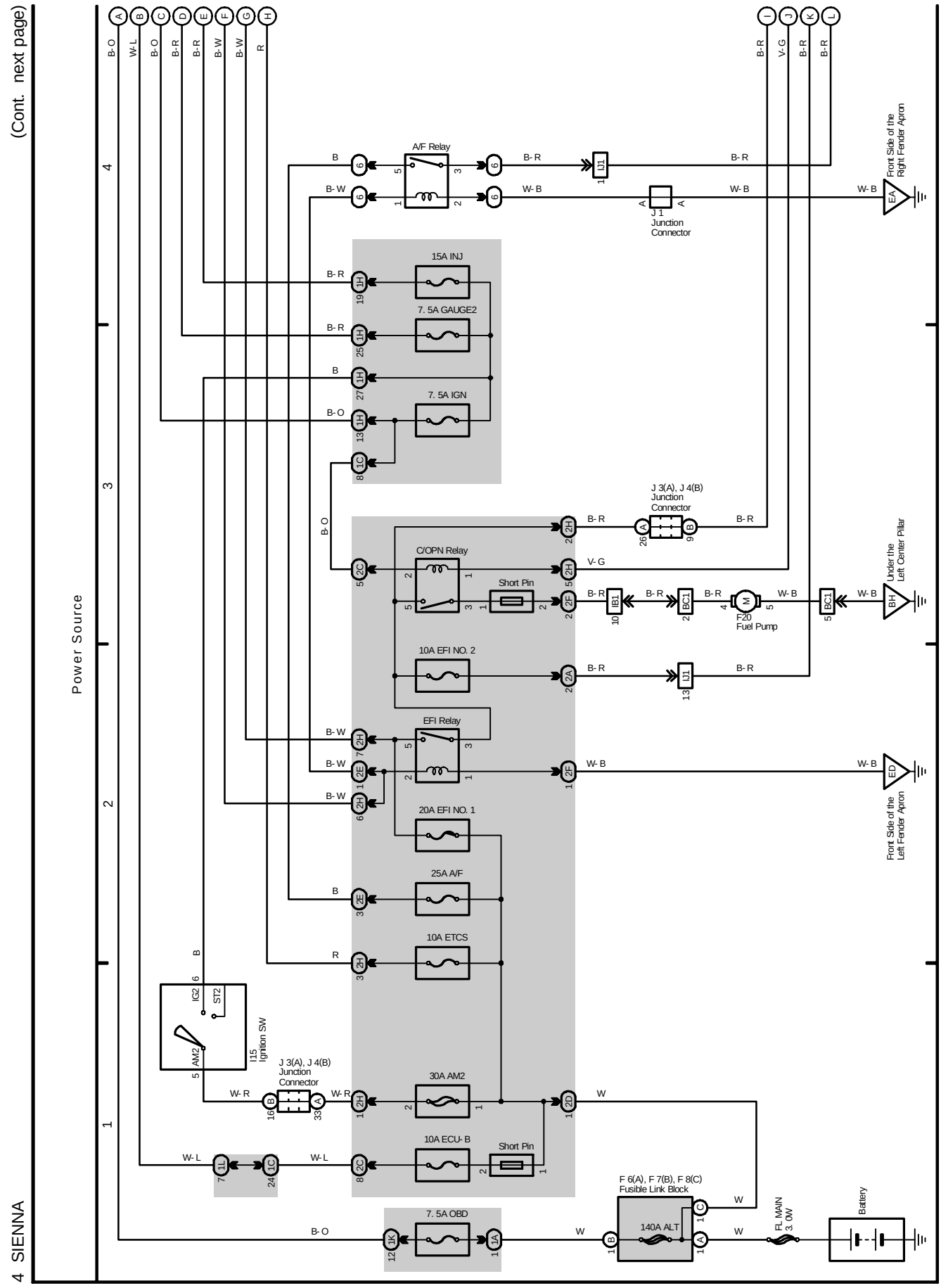

Multiplex Communication System (BEAN)
* 5 : w/ Power Slide Door
* 8 : w/o Power Slide Door
21
22
23
24
B 6(A), B 7(B), B 8(C), B 9(D)
Body ECU
L2
UL3
LSWD
ACTD
UL2
LSWP
ACT+
ACT-
LSWL
LSWR
GND2
J18 Junction Connector
J25(A), J26(B) Junction Connector
J35(A), J36(B) Junction Connector
J33(A), J34(B) Junction Connector
D11
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D12
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
S22
Slide Door Attachment Control LH
S25
Slide Door Attachment Control RH
Slide Door Control Motor LH
Slide Door Detection SW LH
Slide Door Control Motor RH
Slide Door Detection SW RH
J38 Junction Connector
J42 Junction Connector
Left Rear Quarter Panel
Under the Left Center Pillar
Right Rear Quarter Panel
Left Kick Panel

M OVERALL ELECTRICAL WIRING DIAGRAM



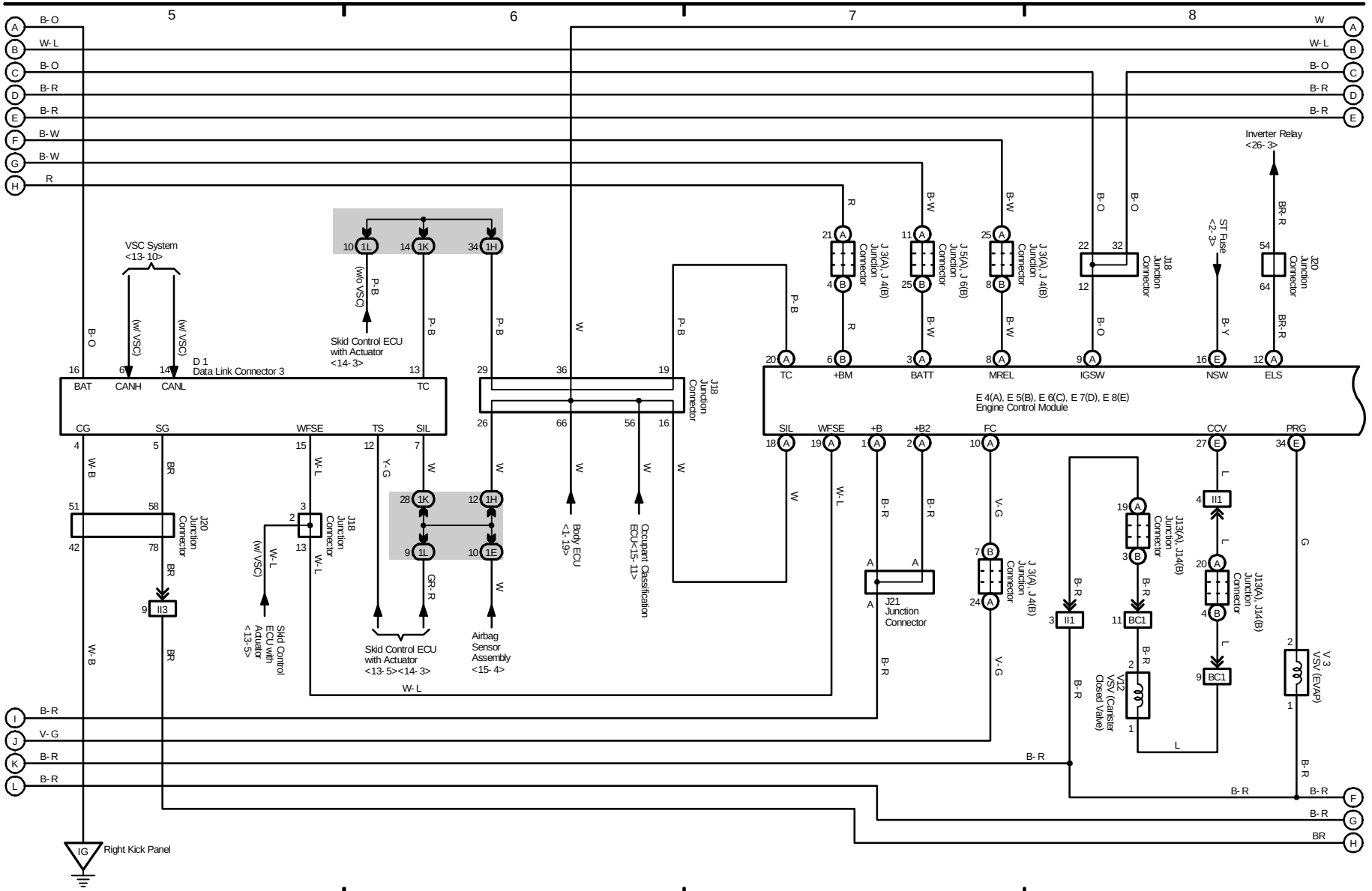

Power Source
Ignition
1
2
3
4
I15
Ignition SW
AM2
IG2
ST2
15A
INJ
J 3(A) J 4(B)
Junction
Connector
30A
AM2
F 6(A) F 8(C)
Fusible Link Block
FL MAIN
3. 0W
Battery
I 1
Ignition Coil and
Igniter No. 1
I 2
Ignition Coil and
Igniter No. 2
I 3
Ignition Coil and
Igniter No. 3
I 4
Ignition Coil and
Igniter No. 4
I 5
Ignition Coil and
Igniter No. 5
I 6
Ignition Coil and
Igniter No. 6
+B
GND
IGF
IGT
N 1
Noise Filter
Engine Control Module
<4-11><4-12>
EB
Rear Bank of
Right Cylinder Head

M OVERALL ELECTRICAL WIRING DIAGRAM

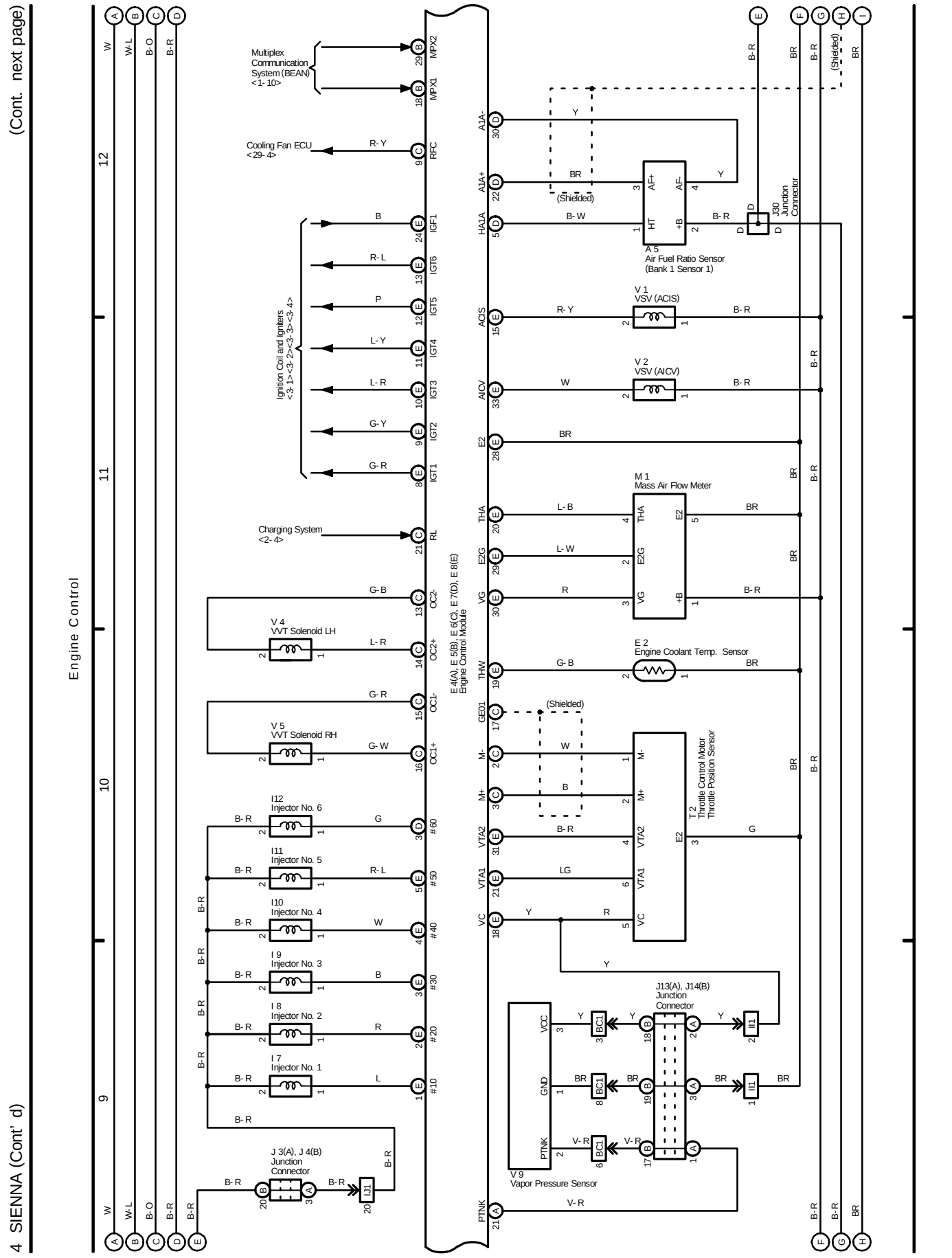


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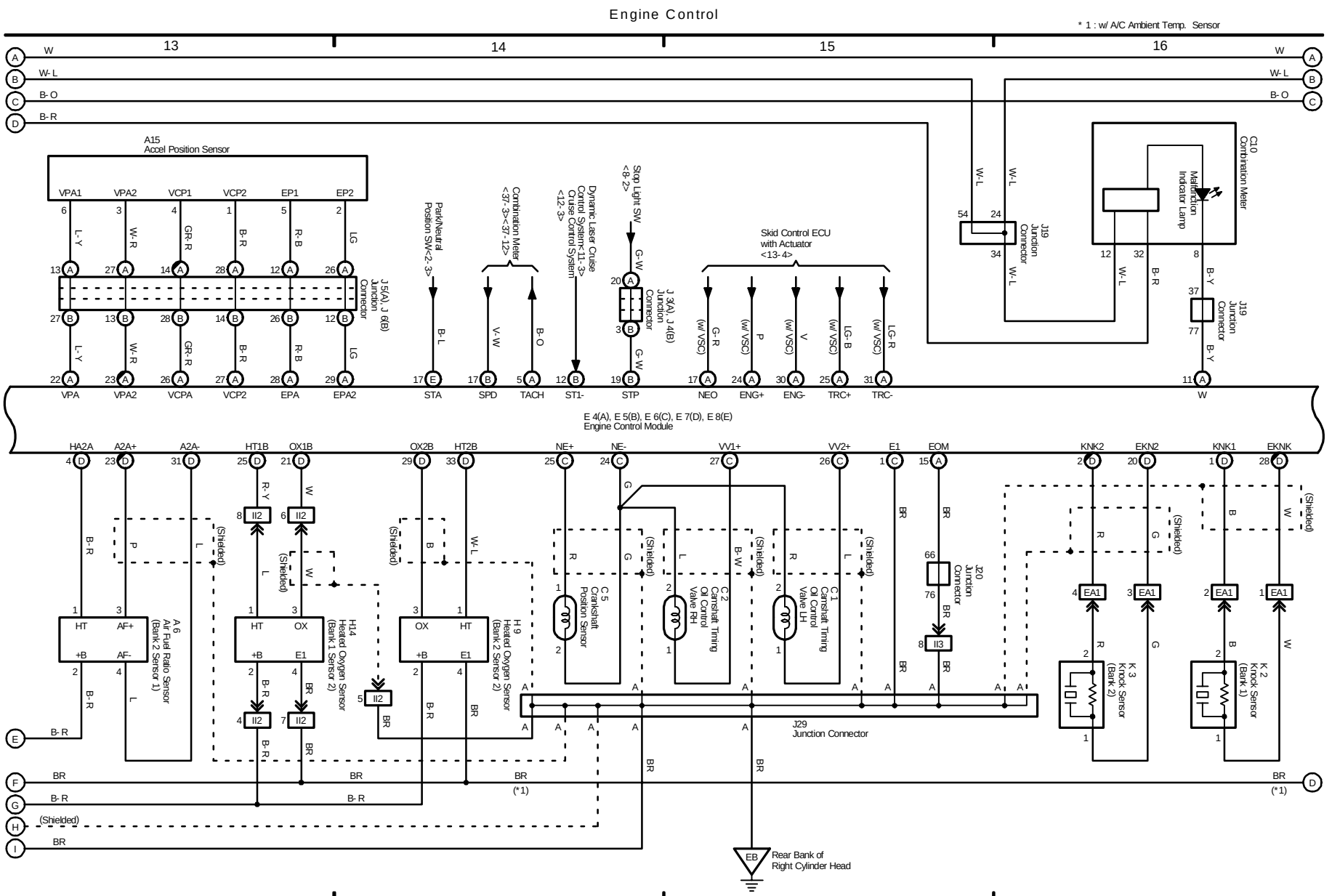
Engine Control



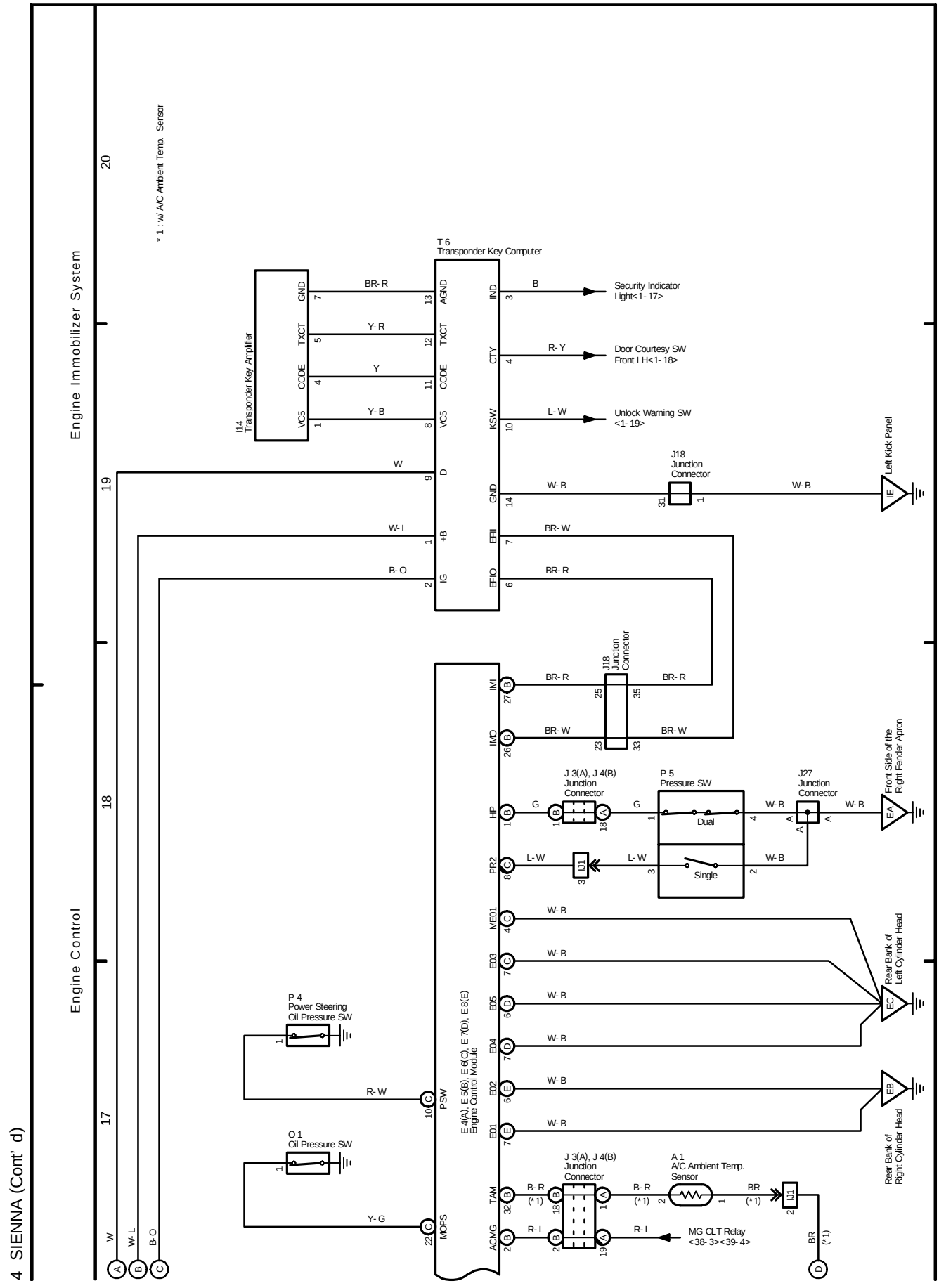
M OVERALL ELECTRICAL WIRING DIAGRAM

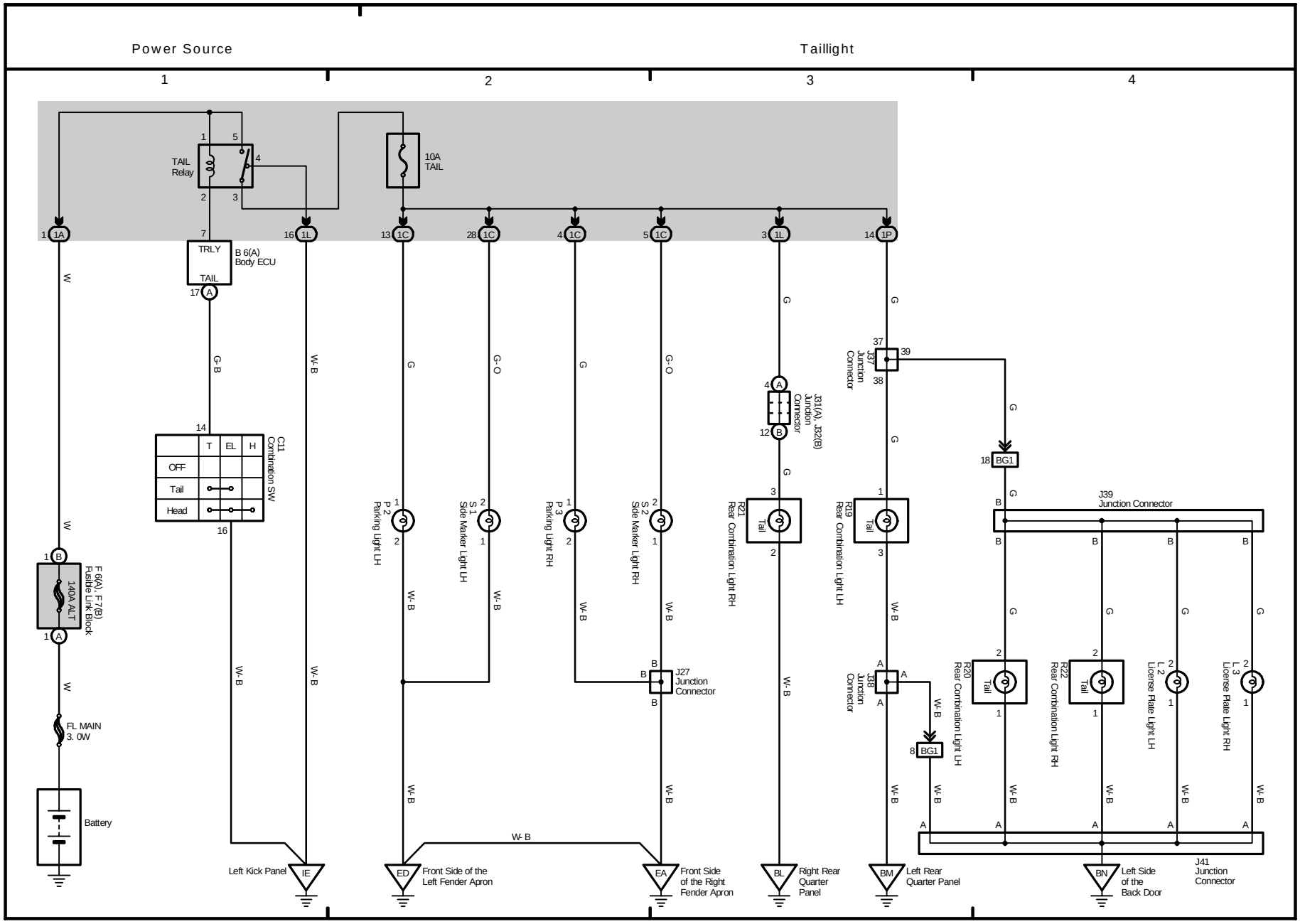


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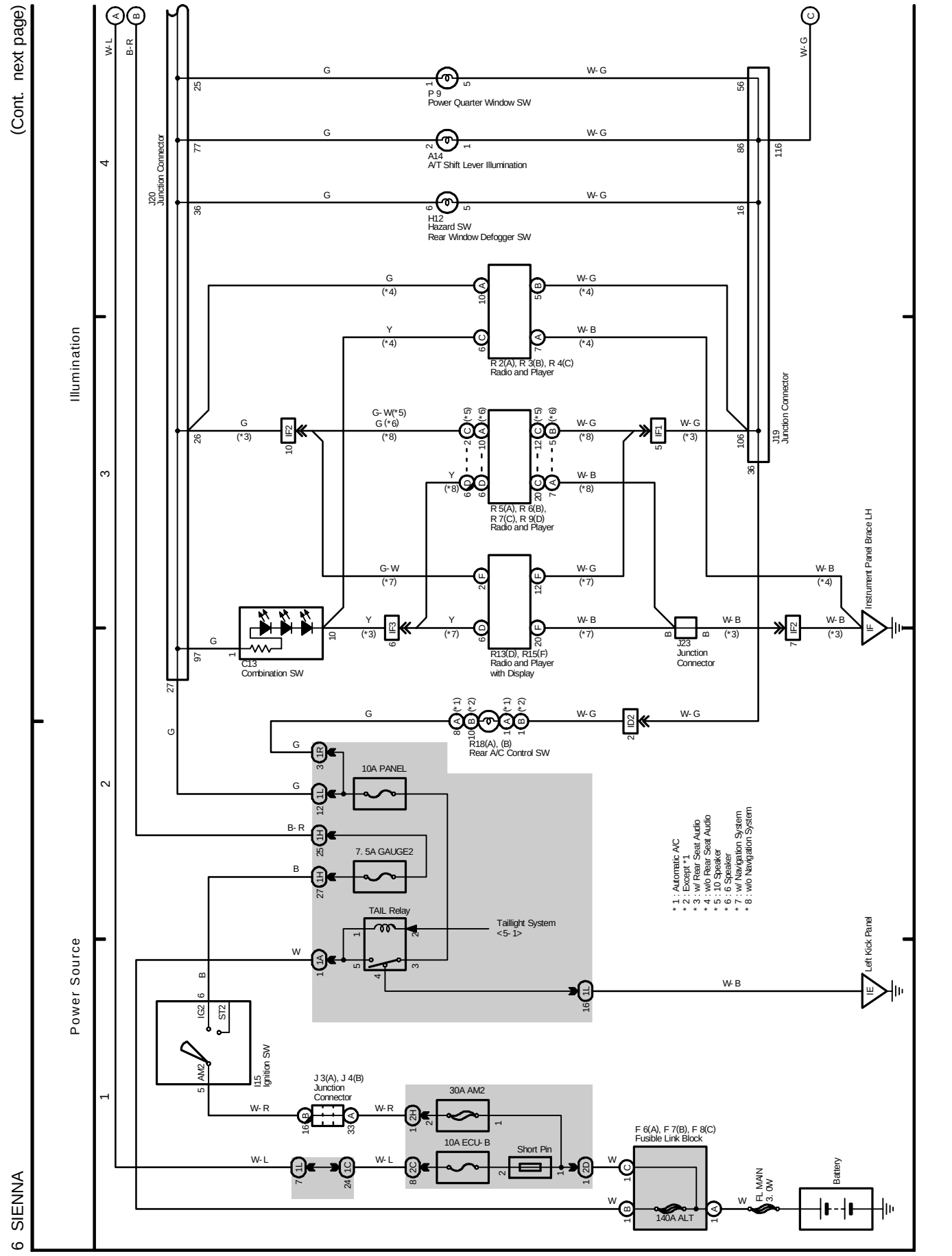


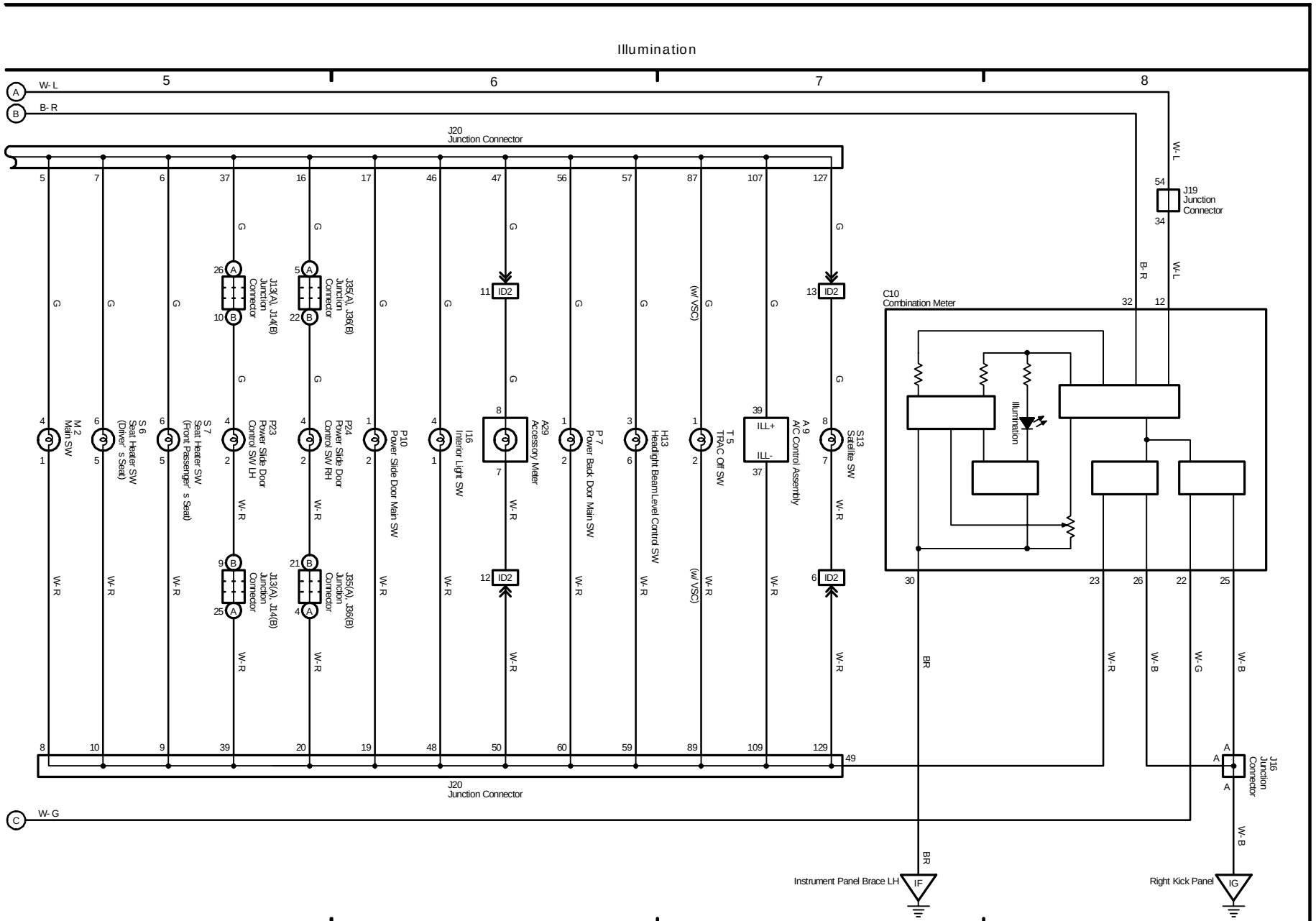
M OVERALL ELECTRICAL WIRING DIAGRAM



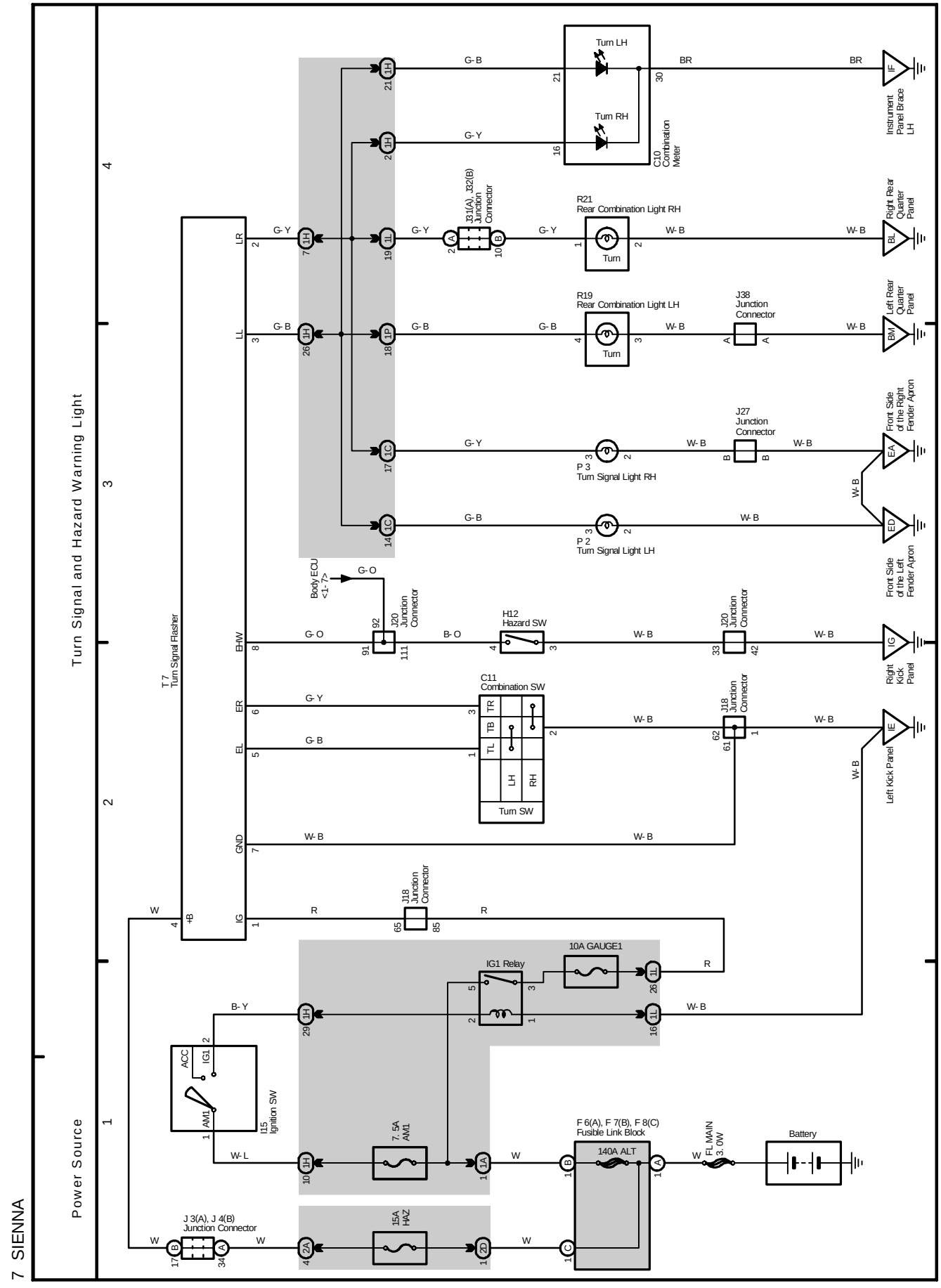

Power Source
Taillight
1
2
3
4
TAIL Relay
10A TAIL
TRLY
TAIL
B 6(A) Body ECU
C11 Combination SW
T
EL
H
OFF
Tail
Head
F 6(A), F 7(B) Fusible Link Block
140A ALT
FL MAIN 3. 0W
Battery
Left Kick Panel
IE
P 2 Parking Light LH
S 1 Side Marker Light LH
P 3 Parking Light RH
S 2 Side Marker Light RH
J27 Junction Connector
Front Side of the Left Fender Apron
ED
Front Side of the Right Fender Apron
EA
J31(A), J32(B) Junction Connector
R21 Rear Combination Light RH
Tail
Right Rear Quarter Panel
BL
J37 Junction Connector
R19 Rear Combination Light LH
J38 Junction Connector
Left Rear Quarter Panel
BM
BG1
J39 Junction Connector
R20 Rear Combination Light LH
R22 Rear Combination Light RH
L 2 License Plate Light LH
L 3 License Plate Light RH
J41 Junction Connector
Left Side of the Back Door
BN
W
G
G-B
G-O
W-B

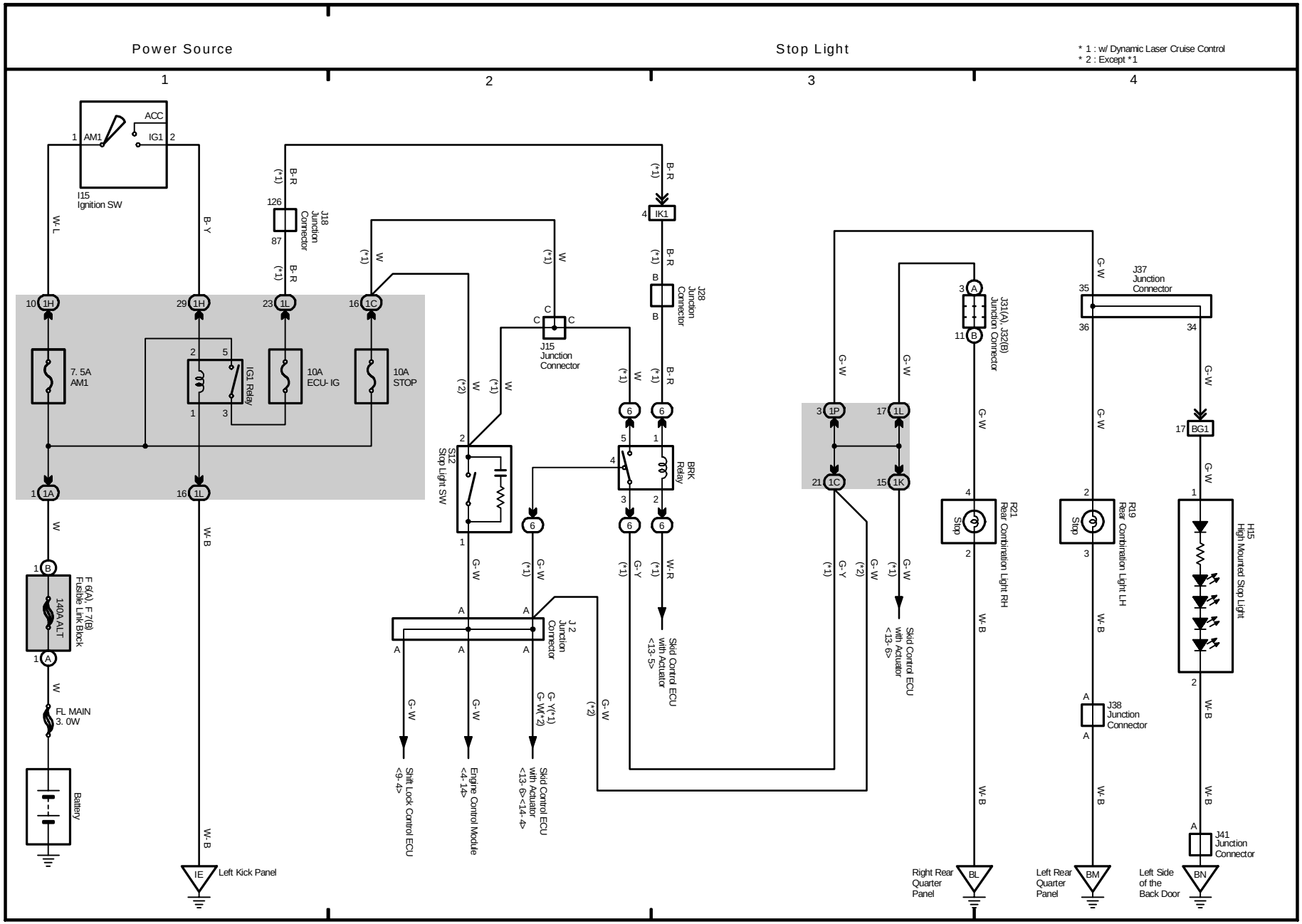
M OVERALL ELECTRICAL WIRING DIAGRAM



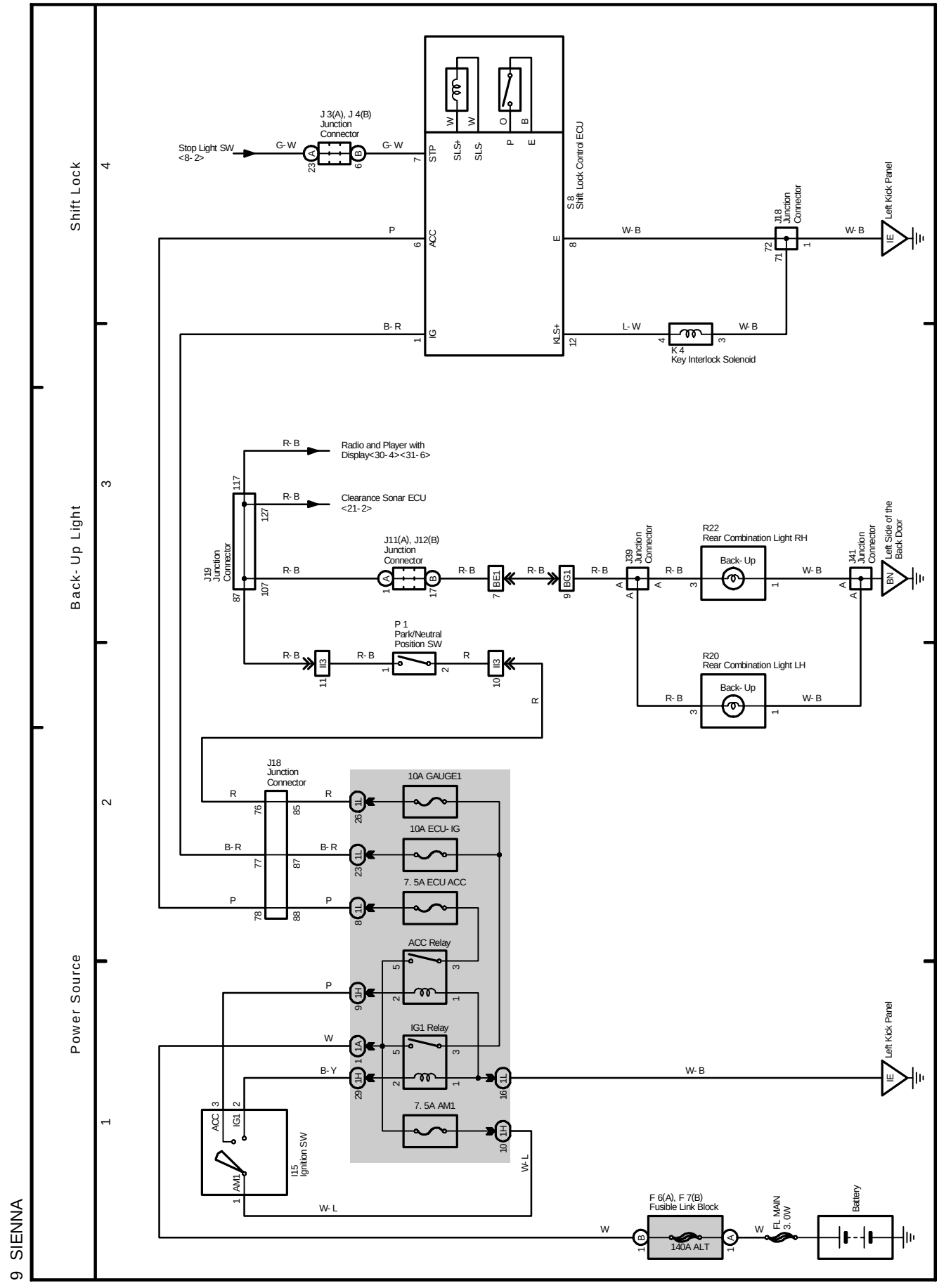

Illumination
W- L
B- R
W- G
J20
Junction Connector
J19
Junction
Connector
C10
Combination Meter
Illumination
M2
Main SW
S6
Seat Heater SW
(Driver' s Seat)
S7
Seat Heater SW
(Front Passenger' s Seat)
P23
Power Slide Door
Control SW LH
P24
Power Slide Door
Control SW RH
P10
Power Slide Door Main SW
I16
Interior Light SW
A29
Accessory Meter
P7
Power Back Door Main SW
H13
Headlight BeamLevel Control SW
T5
TRAC Off SW
A9
A/C Control Assembly
S13
Satellite SW
J13(A), J14(B)
Junction
Connector
J35(A), J36(B)
Junction
Connector
J16
Junction
Connector
ID2
ILL+
ILL-
(w/ VSC)
Instrument Panel Brace LH
IF
Right Kick Panel
IG

M OVERALL ELECTRICAL WIRING DIAGRAM

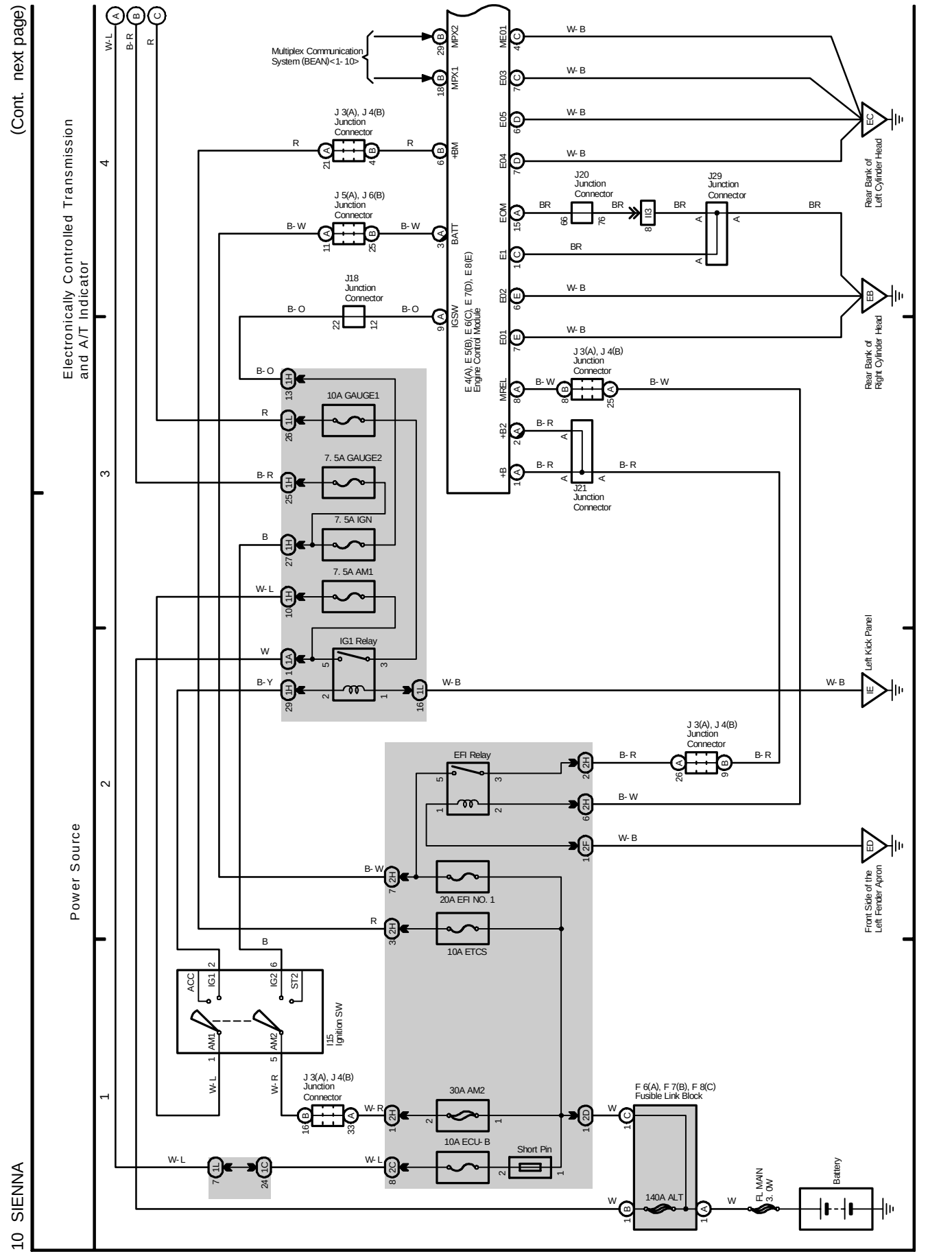



Power Source
Stop Light
* 1 : w/ Dynamic Laser Cruise Control
* 2 : Except *1
1
2
3
4
ACC
IG1
AM1
I15
Ignition SW
W-L
B-Y
J18
Junction
Connector
126
87
B-R
(*1)
10 1H
29 1H
23 1L
16 1C
7. 5A
AM1
IG1 Relay
10A
ECU- IG
10A
STOP
1 1A
16 1L
W
W-B
1 B
F 6(A), F 7(B)
Fusible Link Block
140A ALT
1 A
FL MAIN
3. 0W
Battery
IE
Left Kick Panel
W
(*2)
S12
Stop Light SW
J15
Junction
Connector
4 IK1
J28
Junction
Connector
B
6
BRK
Relay
5
4
3
2
1
G-W
G-Y
W-R
J2
Junction
Connector
A
Shift Lock Control ECU
<9- 4>
Engine Control Module
<4- 14>
G-Y(*1)
G-W(*2)
Skid Control ECU
with Actuator
<13- 6><14- 4>
Skid Control ECU
with Actuator
<13- 5>
3 1P
17 1L
21 1C
15 1K
Skid Control ECU
with Actuator
<13- 6>
3 A
11 B
J31(A), J32(B)
Junction Connector
4
2
R21
Rear Combination Light RH
Stop
Right Rear
Quarter
Panel
BL
35
36
34
J37
Junction
Connector
R19
Rear Combination Light LH
3
A
J38
Junction
Connector
Left Rear
Quarter
Panel
BM
17 BG1
H15
High Mounted Stop Light
J41
Junction
Connector
Left Side
of the
Back Door
BN

M OVERALL ELECTRICAL WIRING DIAGRAM

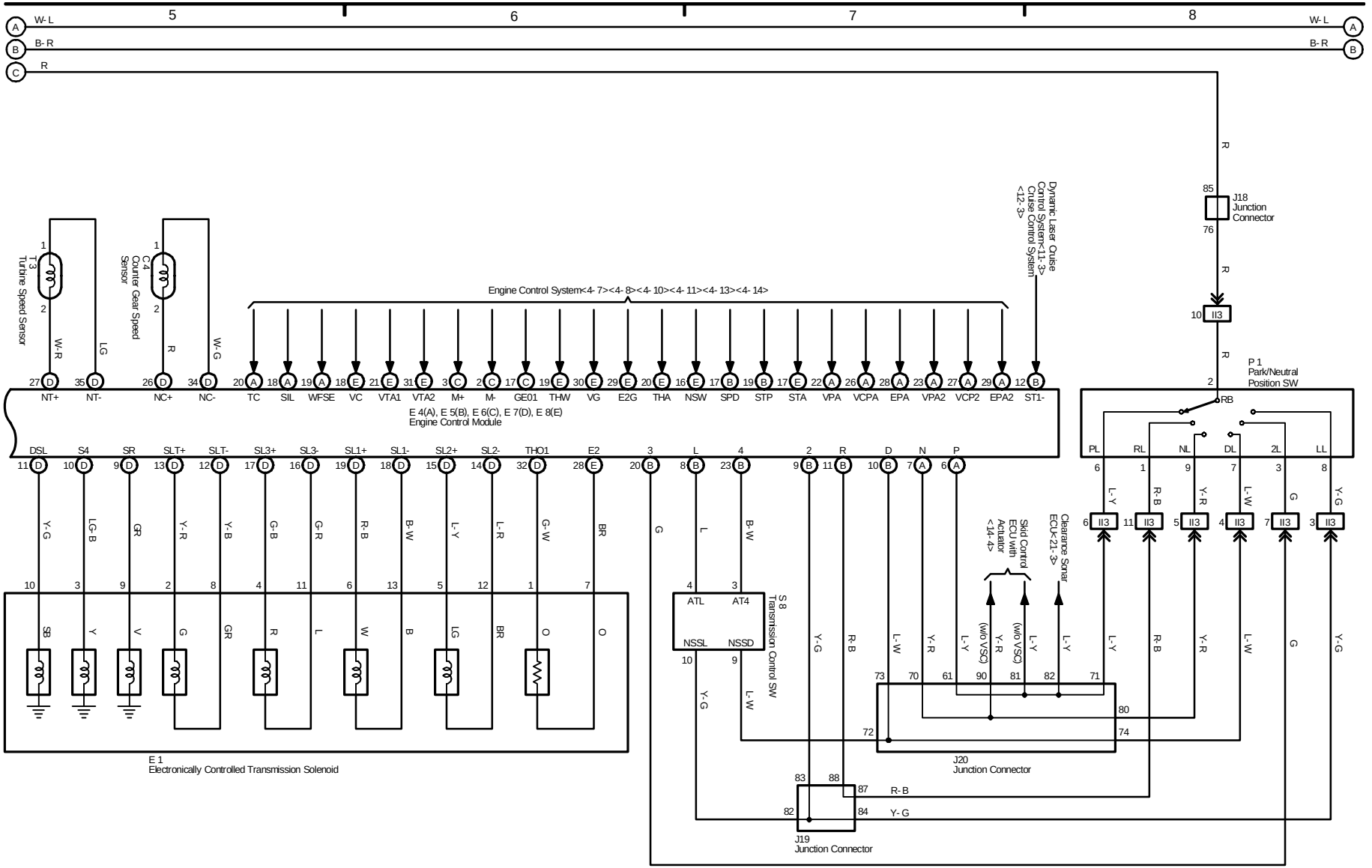


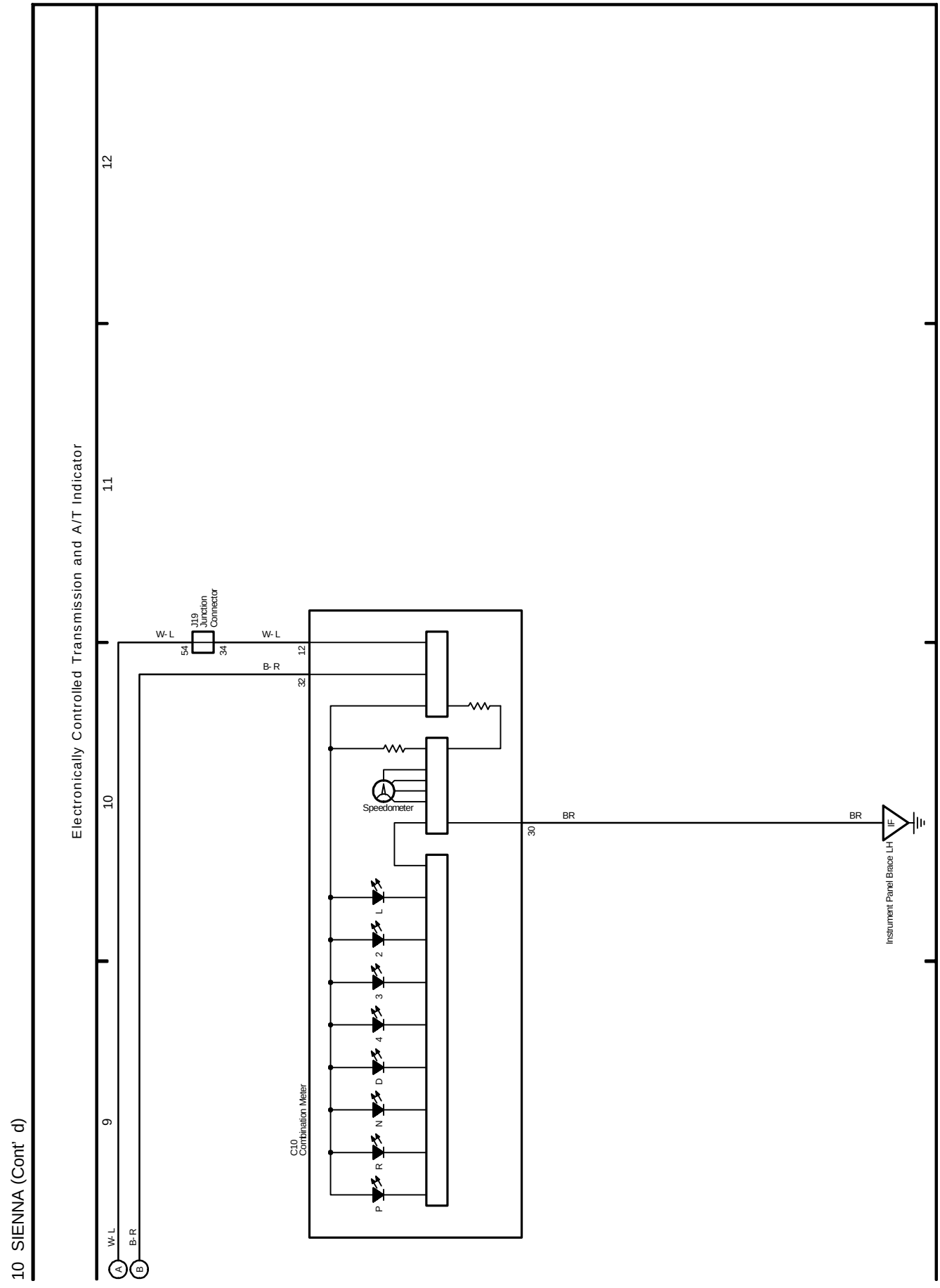
M OVERALL ELECTRICAL WIRING DIAGRAM



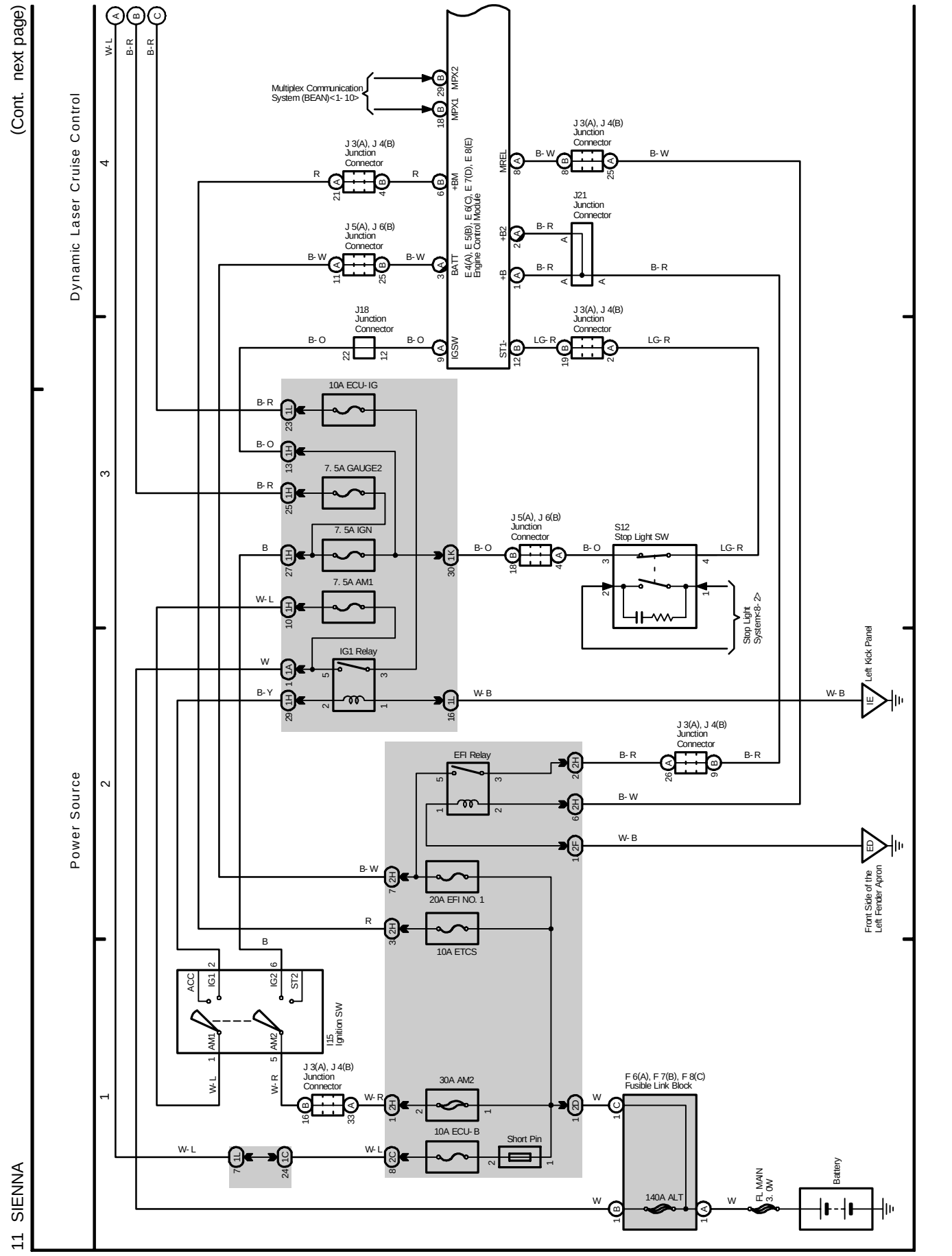
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Electronically Controlled Transmission and A/T Indicator

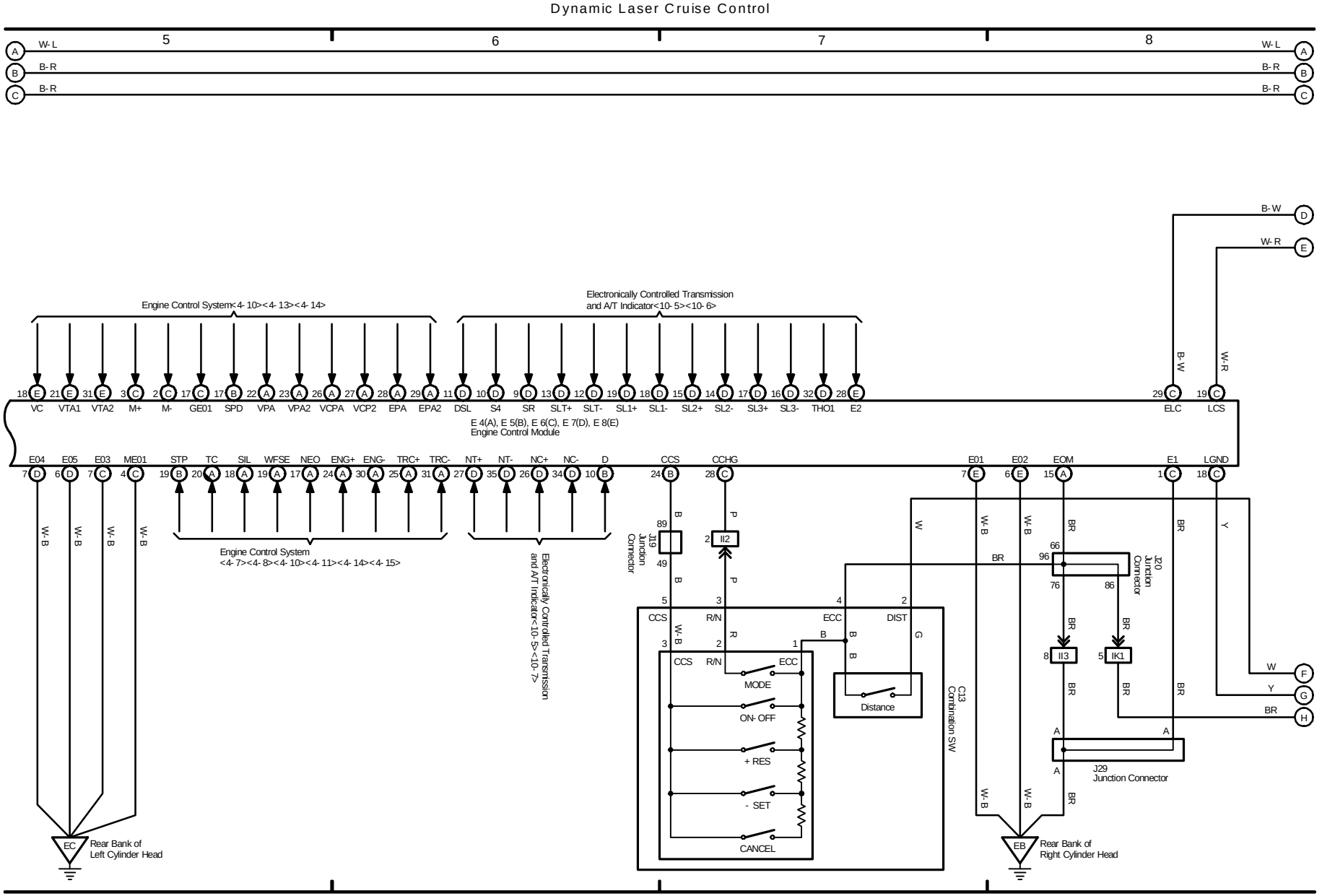


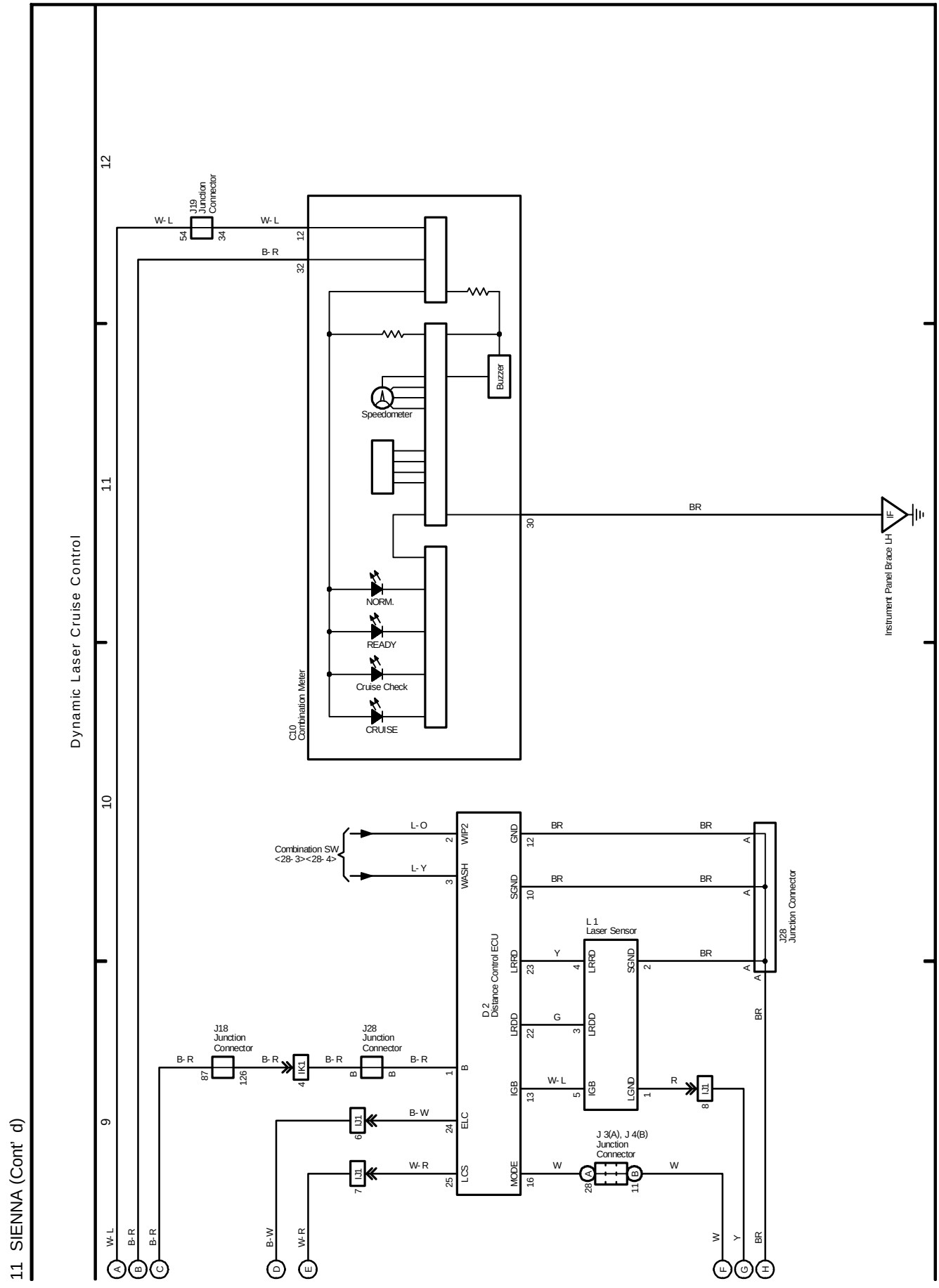

10 SIENNA (Cont' d)
Electronically Controlled Transmission and A/T Indicator
9
10
11
12
W- L
B- R
A
B
J19
Junction
Connector
54
34
W- L
12
B- R
32
C10
Combination Meter
Speedometer
P
R
N
D
4
3
2
L
30
BR
BR
IF
Instrument Panel Brace LH

M OVERALL ELECTRICAL WIRING DIAGRAM

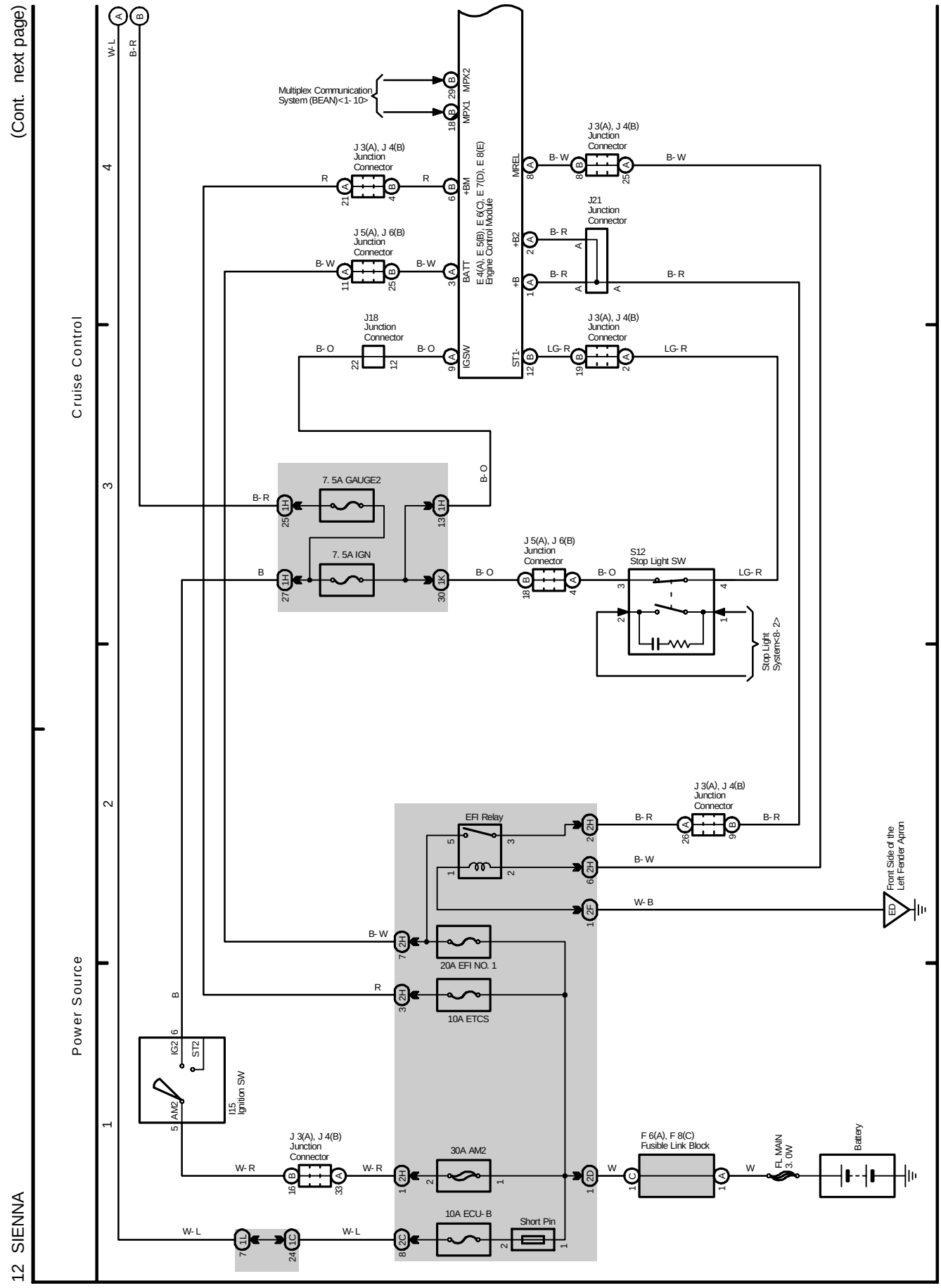


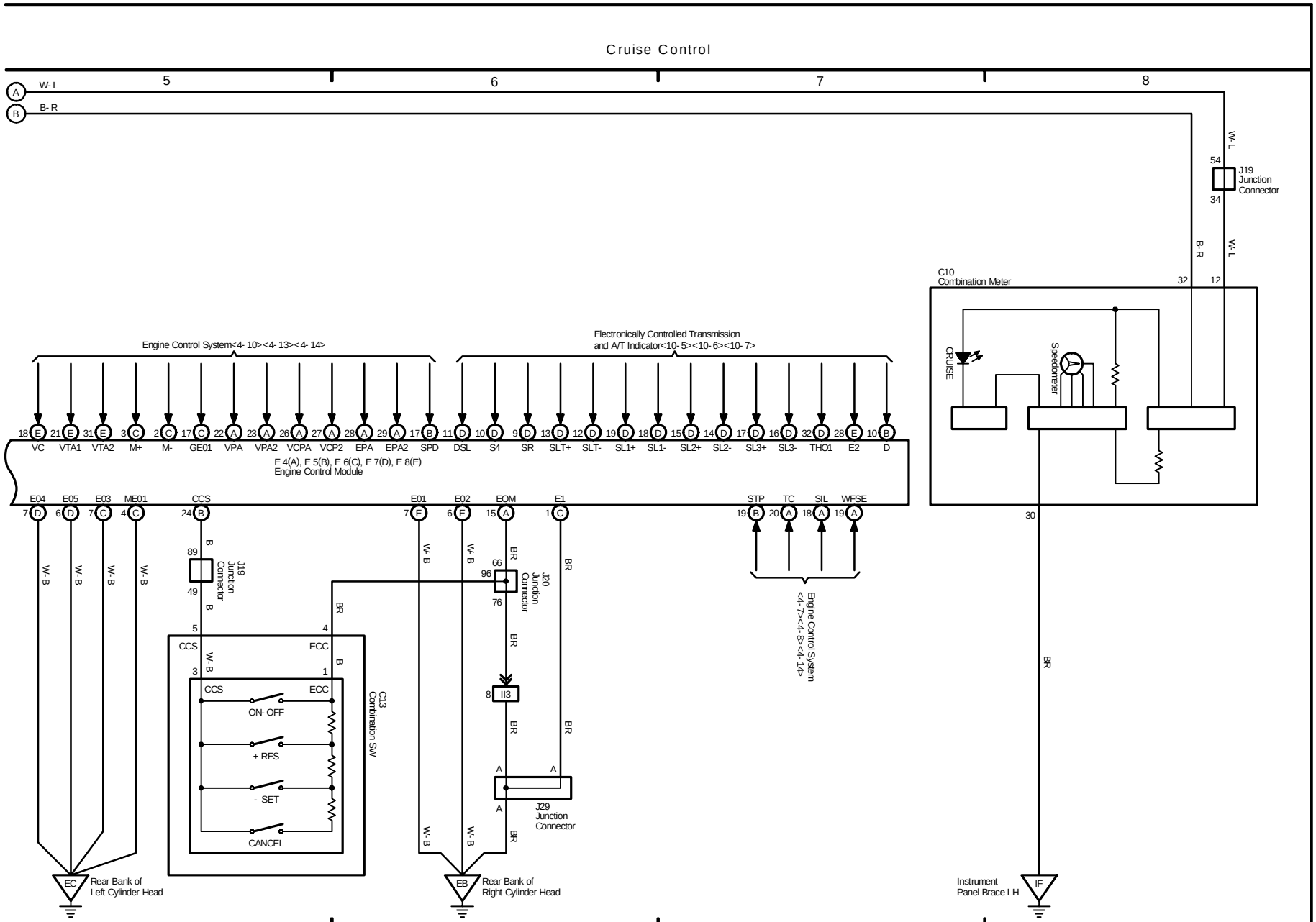
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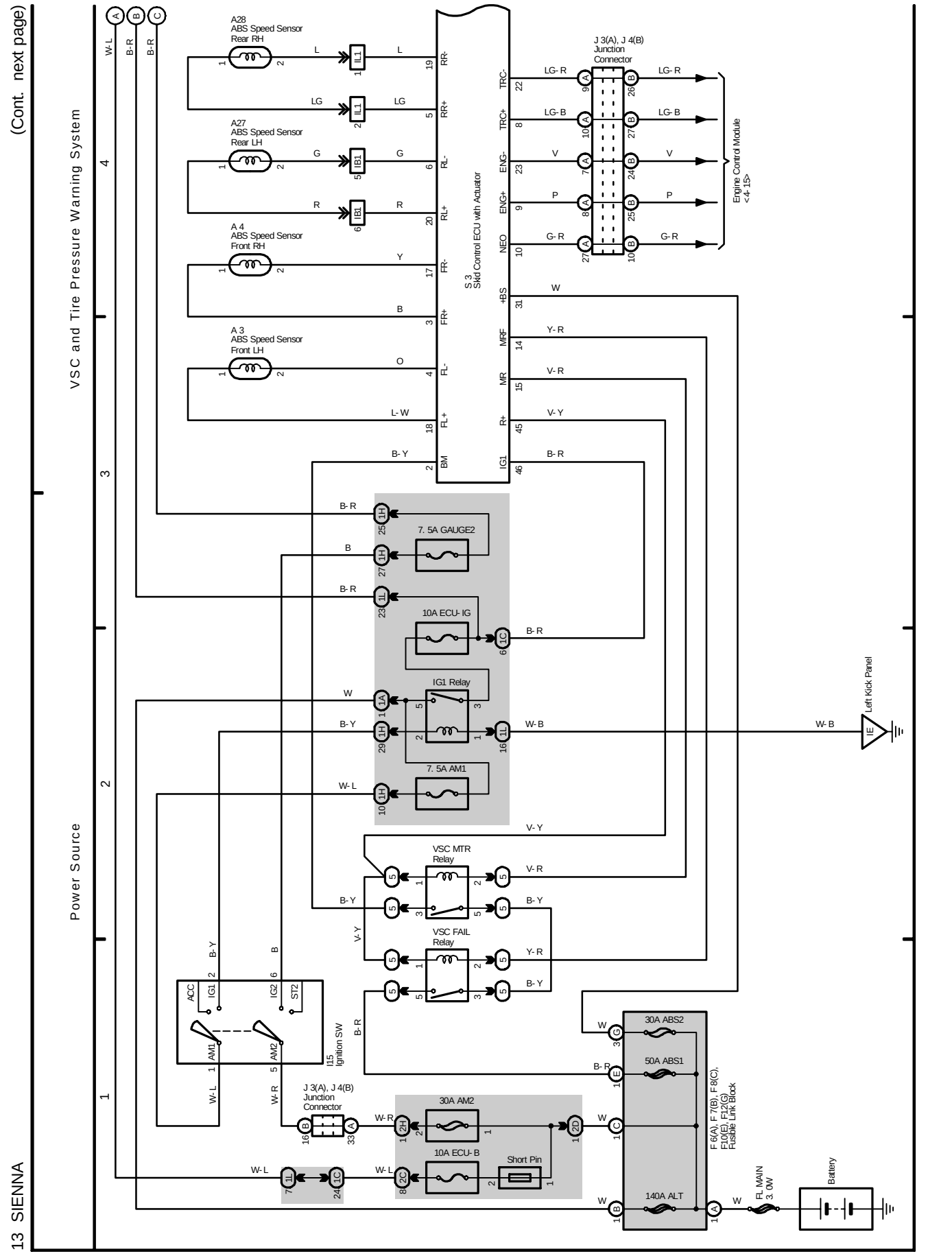

11 SIENNA (Cont' d)
Dynamic Laser Cruise Control
12
11
10
9
J19 Junction Connector
W-L
B-R
Buzzer
Speedometer
NORM.
READY
Cruise Check
CRUISE
C10 Combination Meter
IF
Instrument Panel Brace LH
Combination SW <28-3><28-4>
L-O
L-Y
WIP2
WASH
D 2 Distance Control ECU
GND
SGND
LRDD
IGB
ELC
LCS
MODE
L 1 Laser Sensor
LRDD
SGND
IGB
LGND
J28 Junction Connector
J18 Junction Connector
J28 Junction Connector
IK1
IJ1
J 3(A), J 4(B) Junction Connector
A
B
C
D
E
F
G
H

M OVERALL ELECTRICAL WIRING DIAGRAM

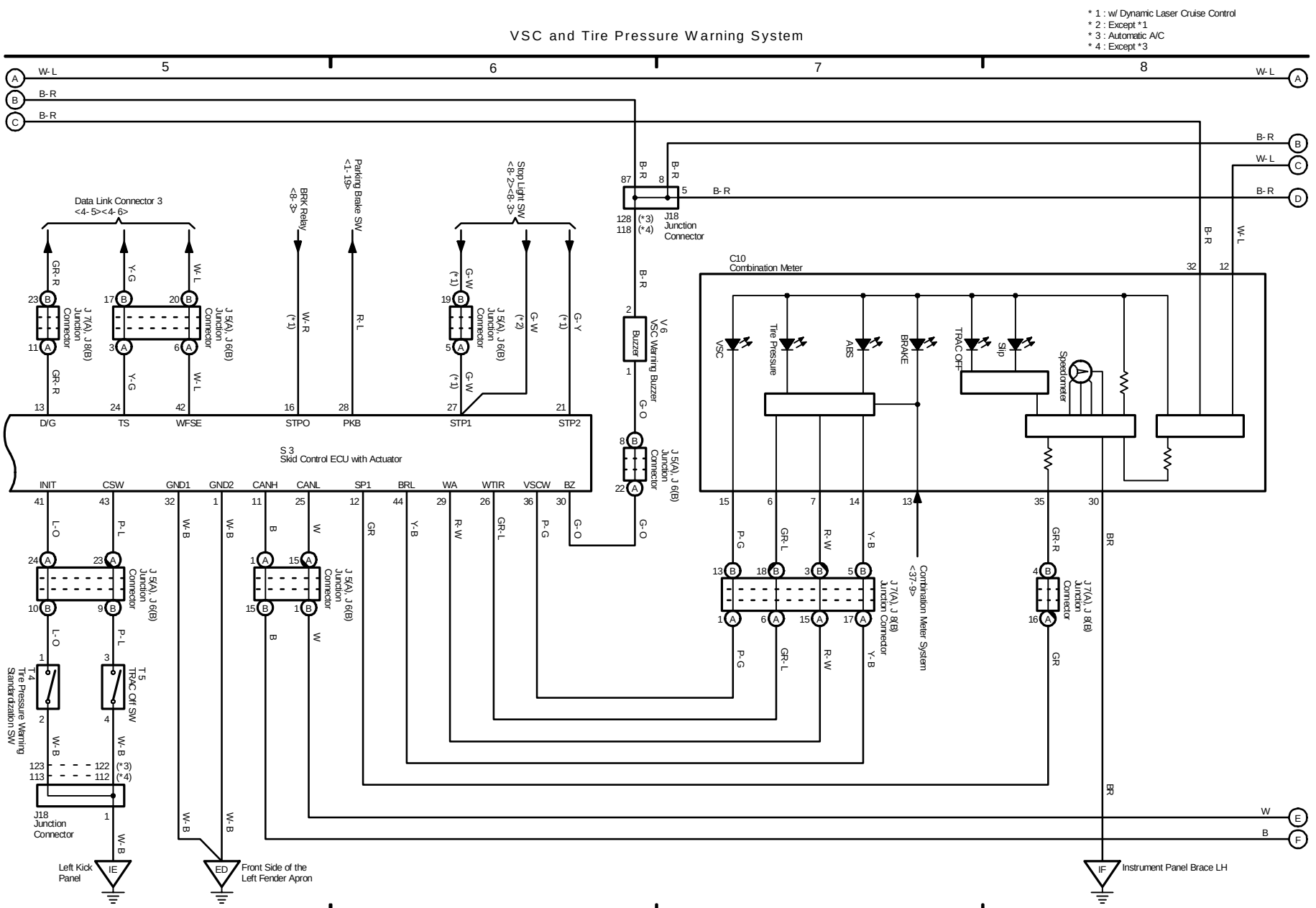



Cruise Control
5
6
7
8
W-L
B-R
J19 Junction Connector
C10 Combination Meter
CRUISE
Speedometer
Engine Control System<4-10><4-13><4-14>
Electronically Controlled Transmission and A/T Indicator<10-5><10-6><10-7>
VC VTA1 VTA2 M+ M- GE01 VPA VPA2 VCPA VCP2 EPA EPA2 SPD DSL S4 SR SLT+ SLT- SL1+ SL1- SL2+ SL2- SL3+ SL3- THO1 E2 D
E 4(A), E 5(B), E 6(C), E 7(D), E 8(E) Engine Control Module
E04 E05 E03 ME01 CCS E01 E02 EOM E1 STP TC SIL W/FSE
J19 Junction Connector
J20 Junction Connector
J29 Junction Connector
II3
C13 Combination SW
CCS ECC
ON-OFF
+ RES
- SET
CANCEL
Engine Control System <4-7><4-8><4-14>
EC Rear Bank of Left Cylinder Head
EB Rear Bank of Right Cylinder Head
Instrument Panel Brace LH
IF

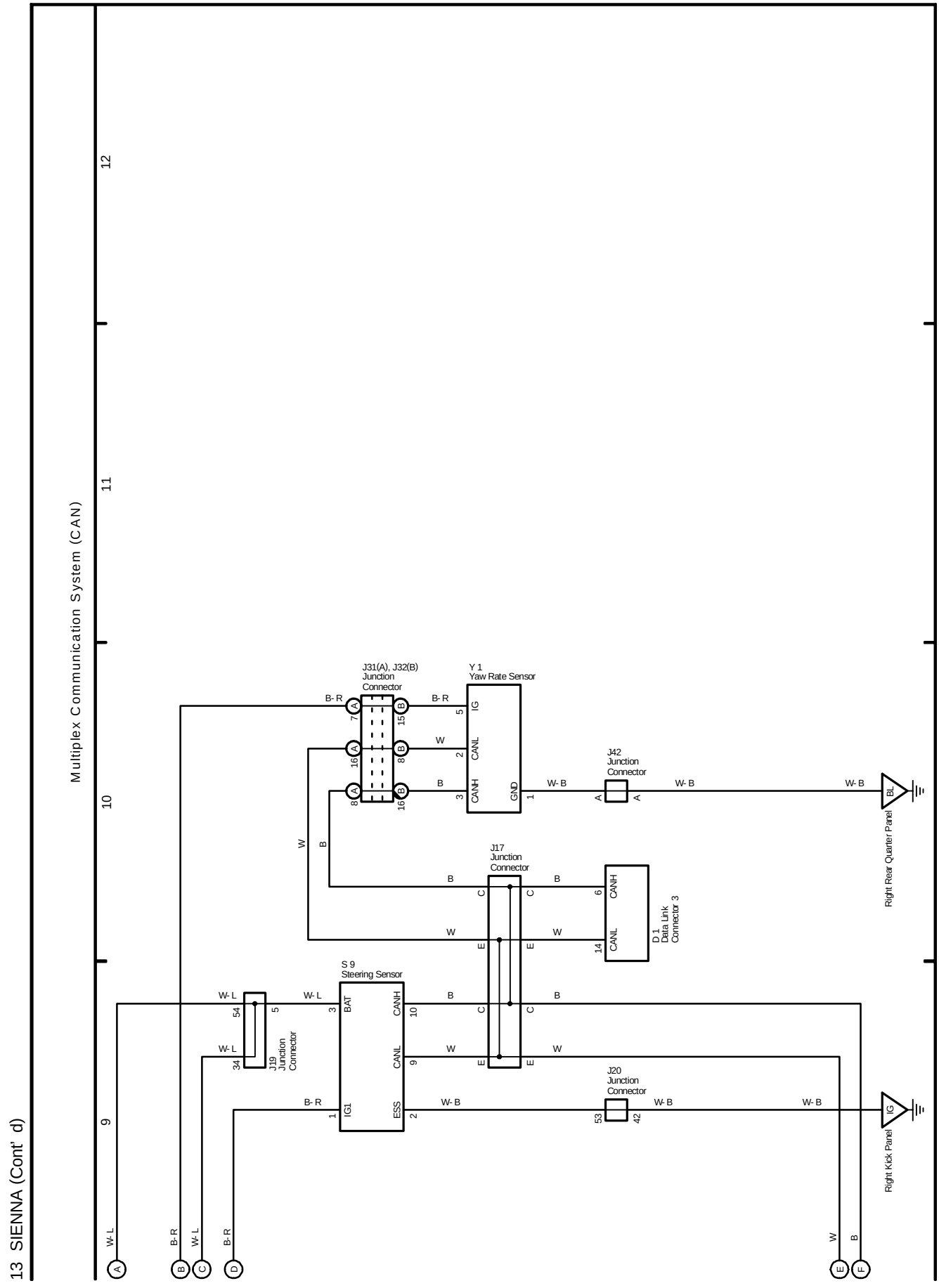
M OVERALL ELECTRICAL WIRING DIAGRAM

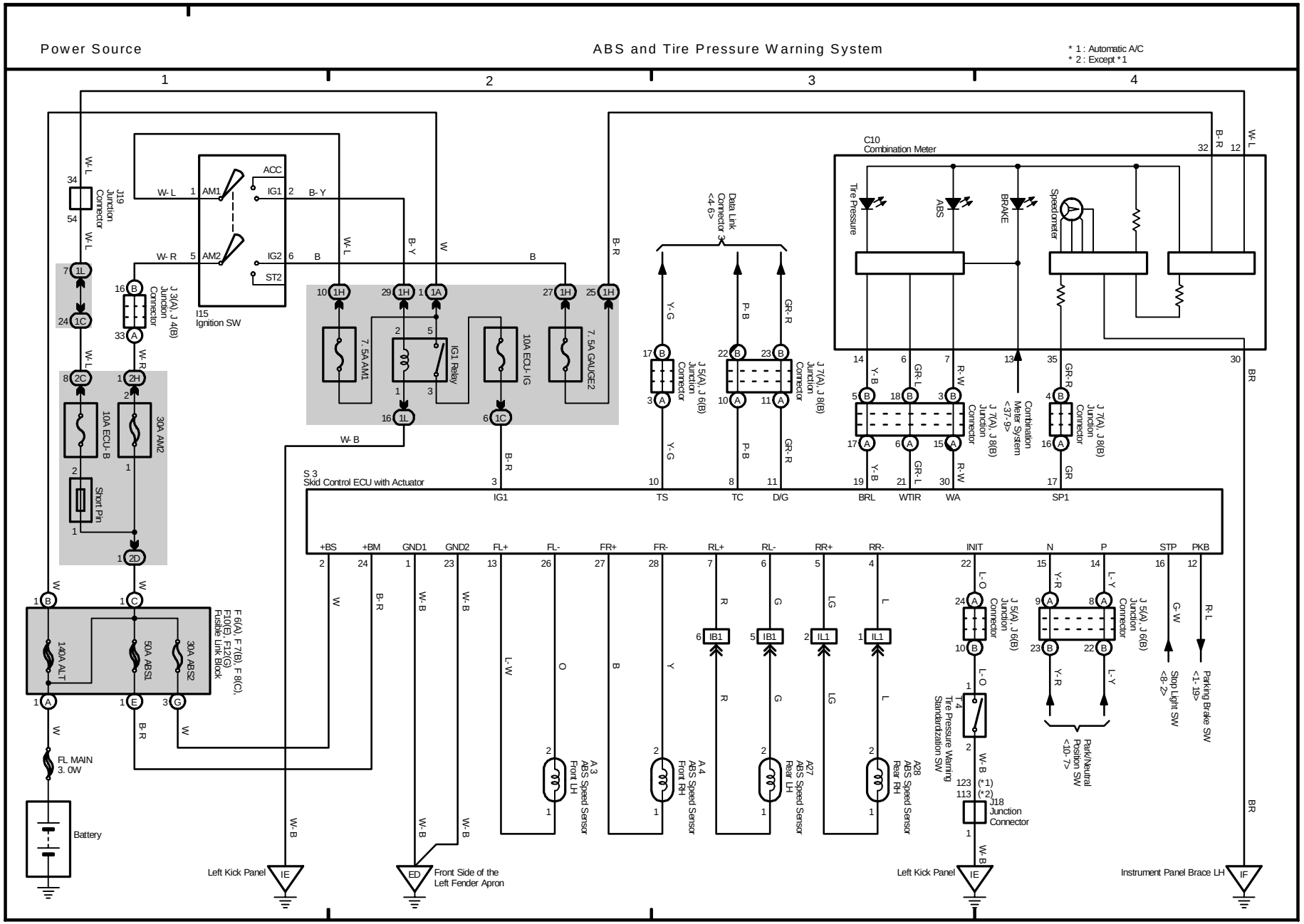


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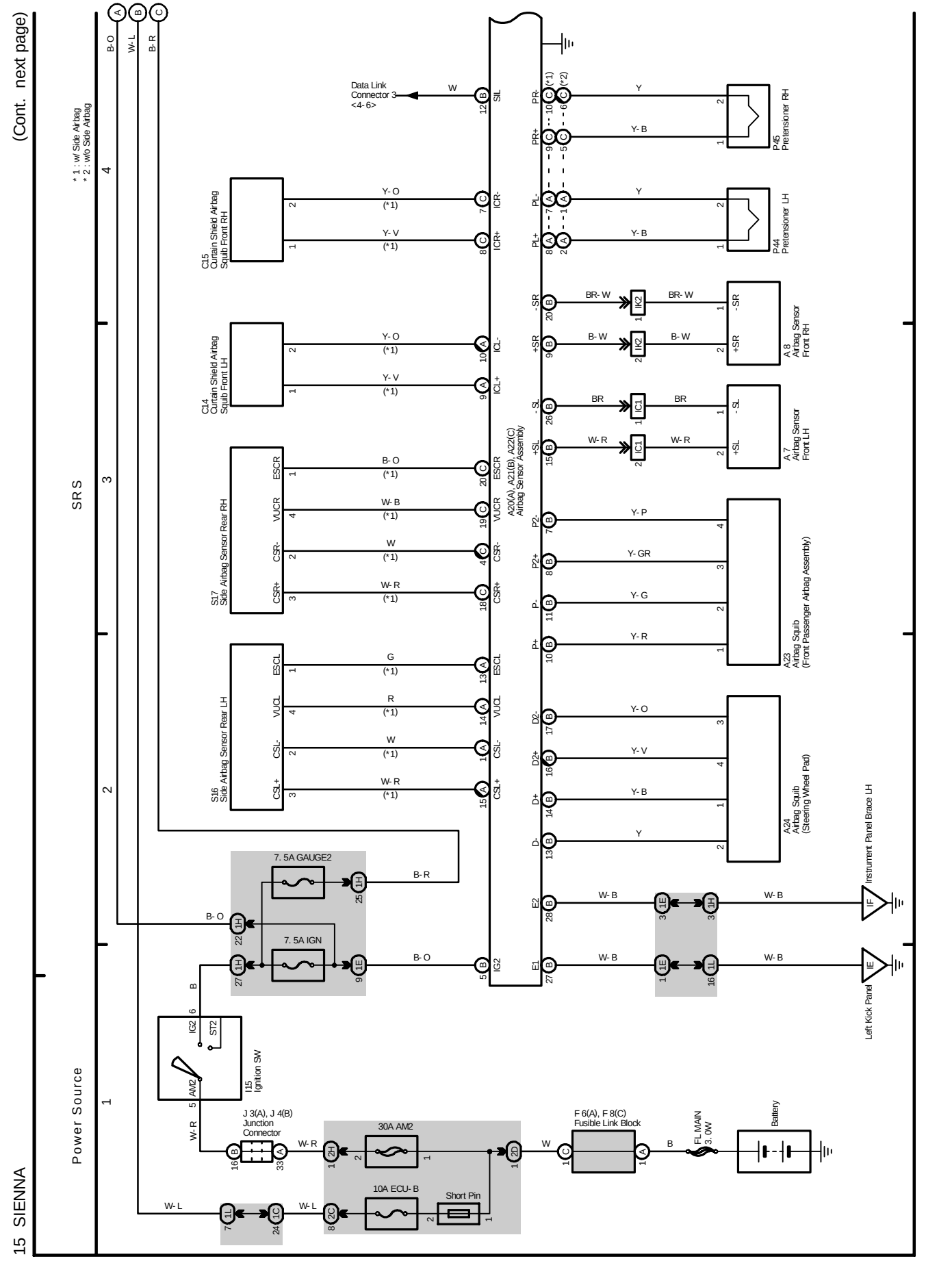


M OVERALL ELECTRICAL WIRING DIAGRAM

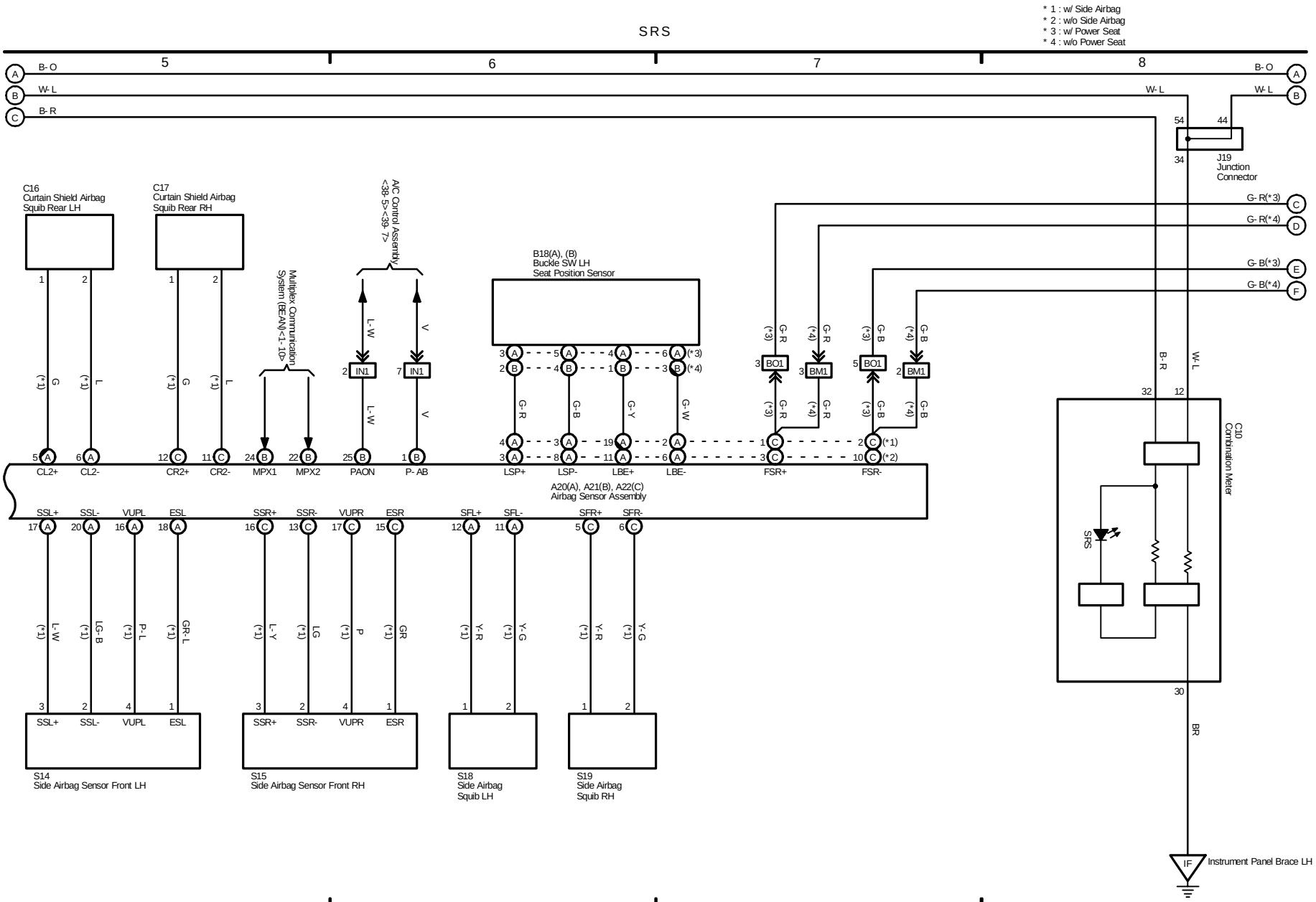


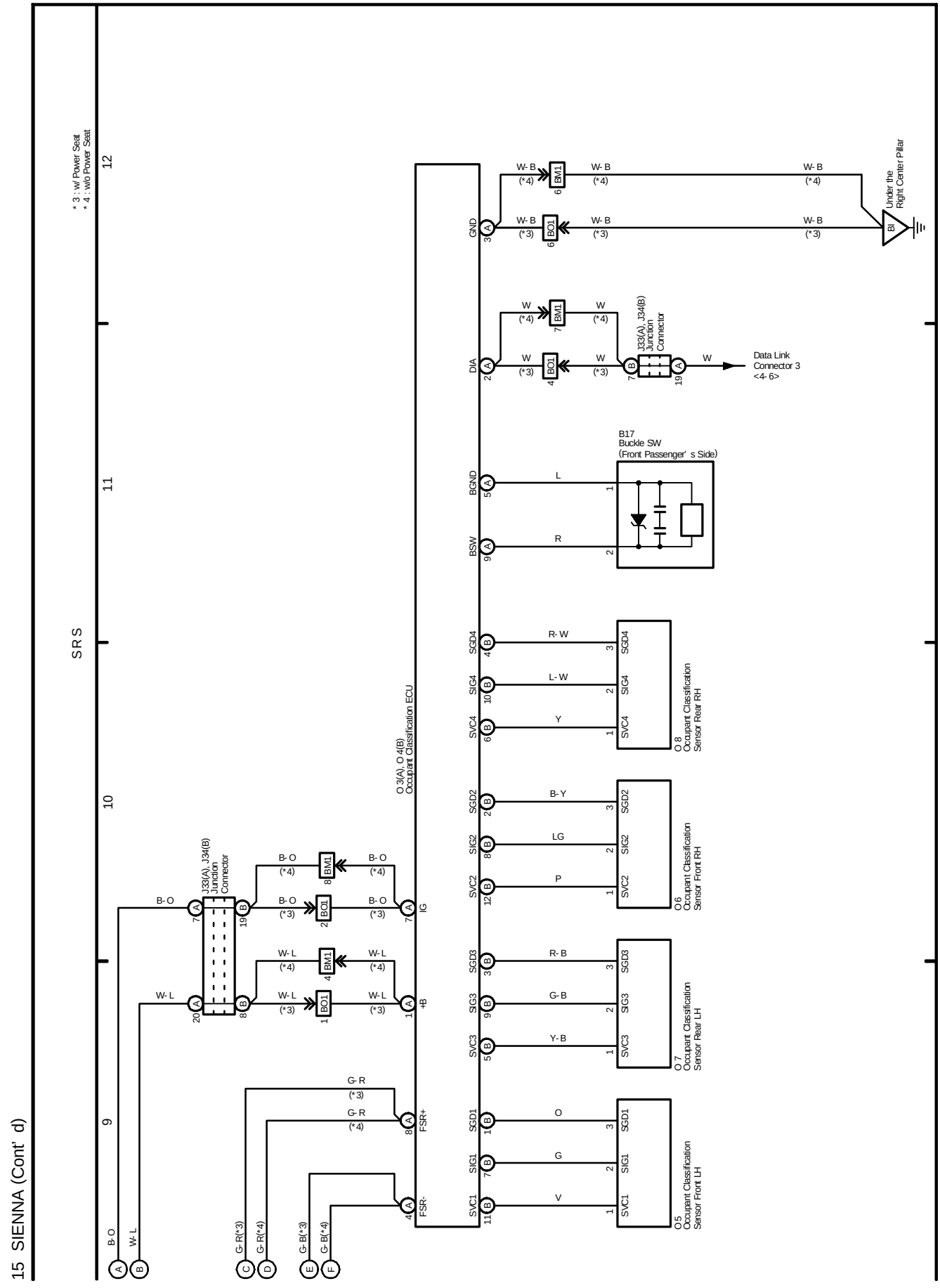

Power Source
ABS and Tire Pressure Warning System
* 1 : Automatic A/C
* 2 : Except *1
1
2
3
4
C10
Combination Meter
Tire Pressure
ABS
BRAKE
Speedometer
J19
Junction
Connector
I15
Ignition SW
ACC
AM1
AM2
IG1
IG2
ST2
J 3(A), J 4(B)
Junction
Connector
7. 5A AM1
IG1 Relay
10A ECU-IG
7. 5A GAUGE2
Data Link
Connector 3
<4- 6>
J 5(A), J 6(B)
Junction
Connector
J 7(A), J 8(B)
Junction
Connector
Combination
Meter System
<37- 9>
10A ECU- B
30A AM2
Short Pin
S 3
Skid Control ECU with Actuator
IG1
TS
TC
D/G
BRL
WTIR
WA
SP1
+BS
+BM
GND1
GND2
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
INIT
N
P
STP
PKB
F 6(A), F 7(B), F 8(C),
F10(E), F12(G)
Fusible Link Block
140A ALT
50A ABS1
30A ABS2
FL MAIN
3. 0W
Battery
A 3
ABS Speed Sensor
Front LH
A 4
ABS Speed Sensor
Front RH
A27
ABS Speed Sensor
Rear LH
A28
ABS Speed Sensor
Rear RH
T 4
Tire Pressure Warning
Standardization SW
J18
Junction
Connector
Park/Neutral
Position SW
<10- 7>
Stop Light SW
<8- 2>
Parking Brake SW
<1- 19>
Left Kick Panel
IE
Front Side of the
Left Fender Apron
ED
Left Kick Panel
IE
Instrument Panel Brace LH
IF

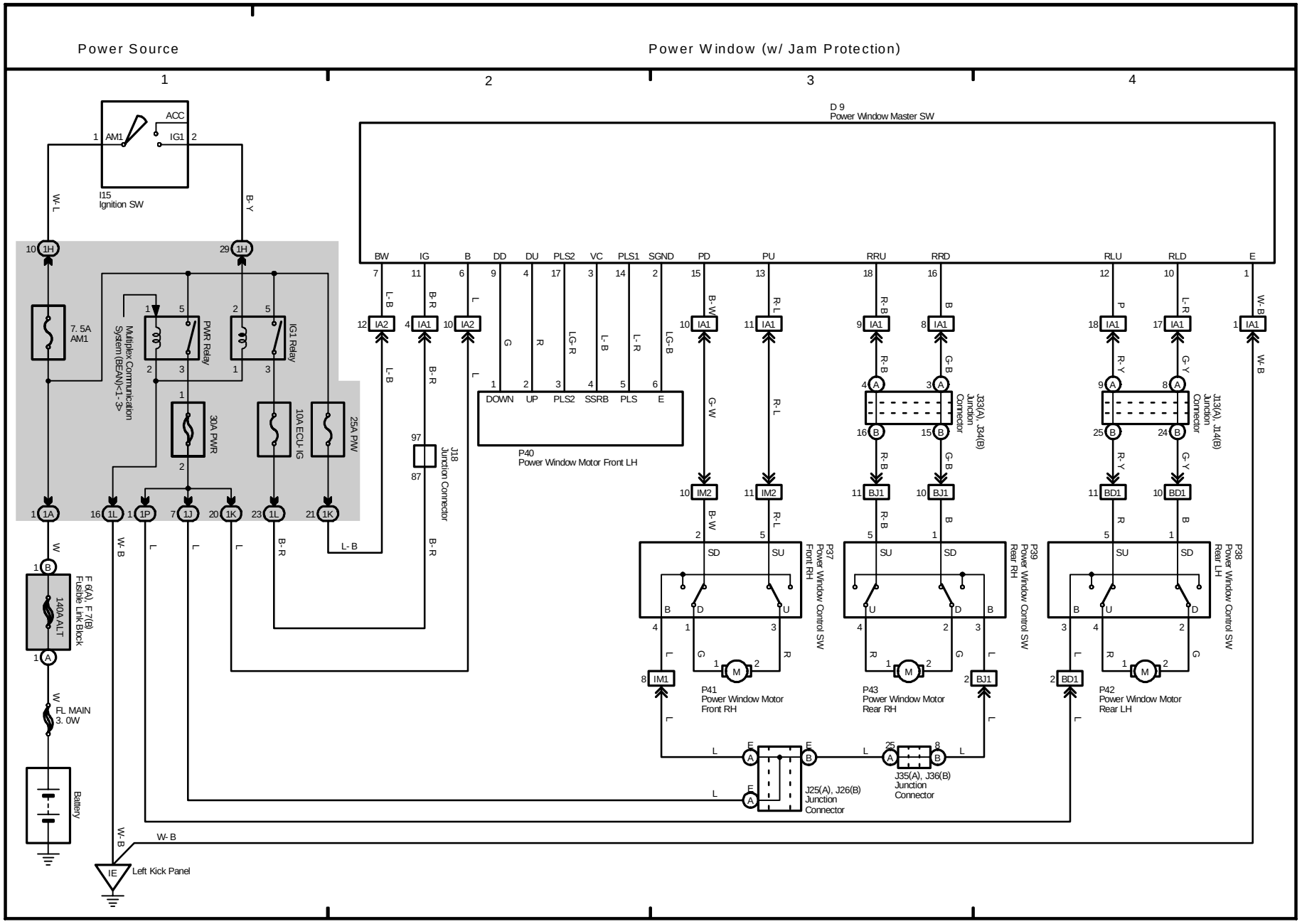
M OVERALL ELECTRICAL WIRING DIAGRAM



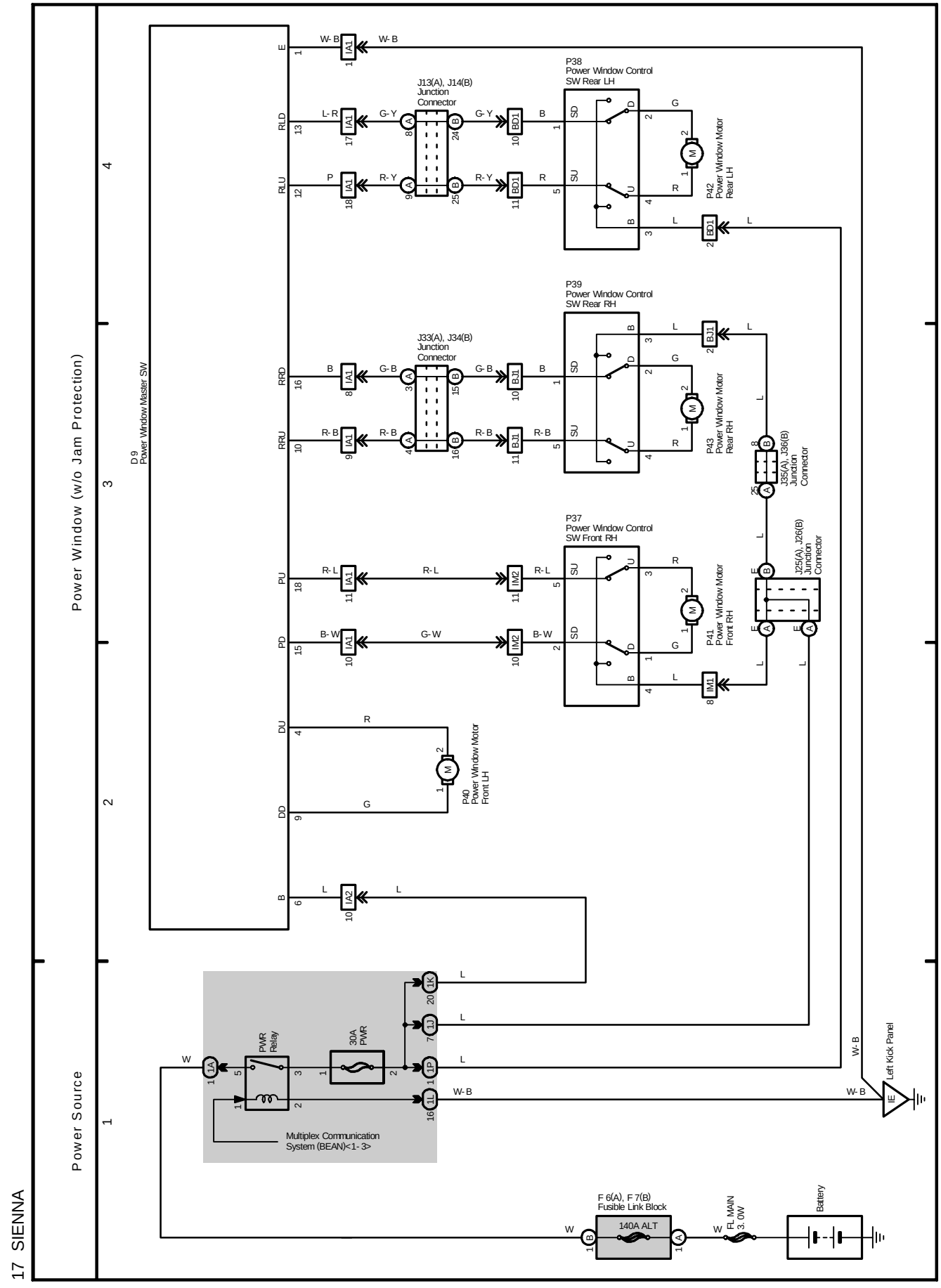
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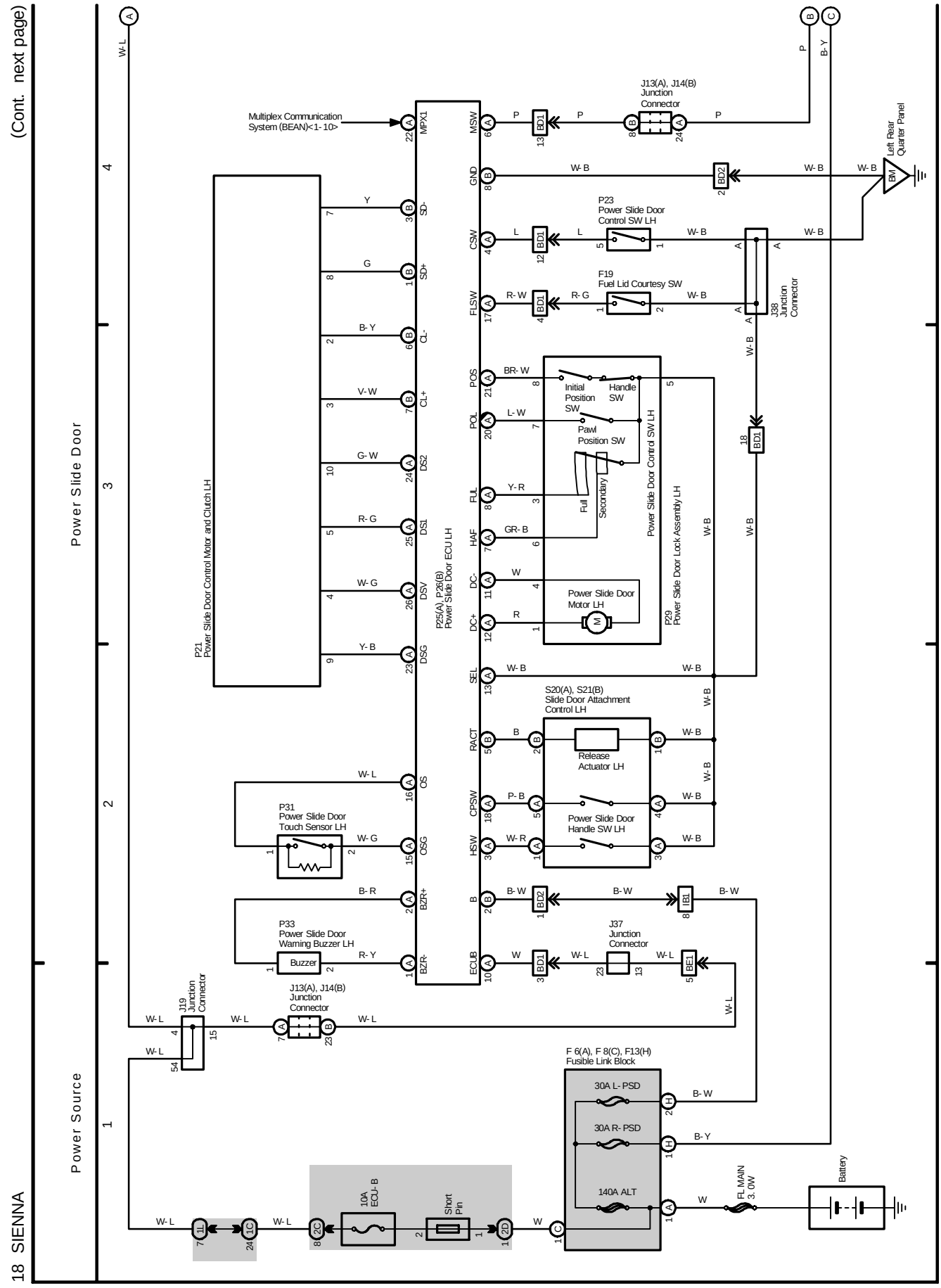

15 SIENNA (Cont' d)
SRS
9
10
11
12
* 3 : w/ Power Seat
* 4 : w/o Power Seat
O 3(A), O 4(B)
Occupant Classification ECU
GND
DIA
BGND
BSW
IG
+B
FSR+
FSR-
SGD4
SIG4
SVC4
SGD2
SIG2
SVC2
SGD3
SG3
SVC3
SGD1
SIG1
SVC1
J33(A), J34(B)
Junction
Connector
BM1
BO1
Under the
Right Center Pillar
BI
Data Link
Connector 3
<4- 6>
B17
Buckle SW
(Front Passenger' s Side)
O 8
Occupant Classification
Sensor Rear RH
O 6
Occupant Classification
Sensor Front RH
O 7
Occupant Classification
Sensor Rear LH
O 5
Occupant Classification
Sensor Front LH
B- O
W- L
G- R(*3)
G- R(*4)
G- B(*3)
G- B(*4)

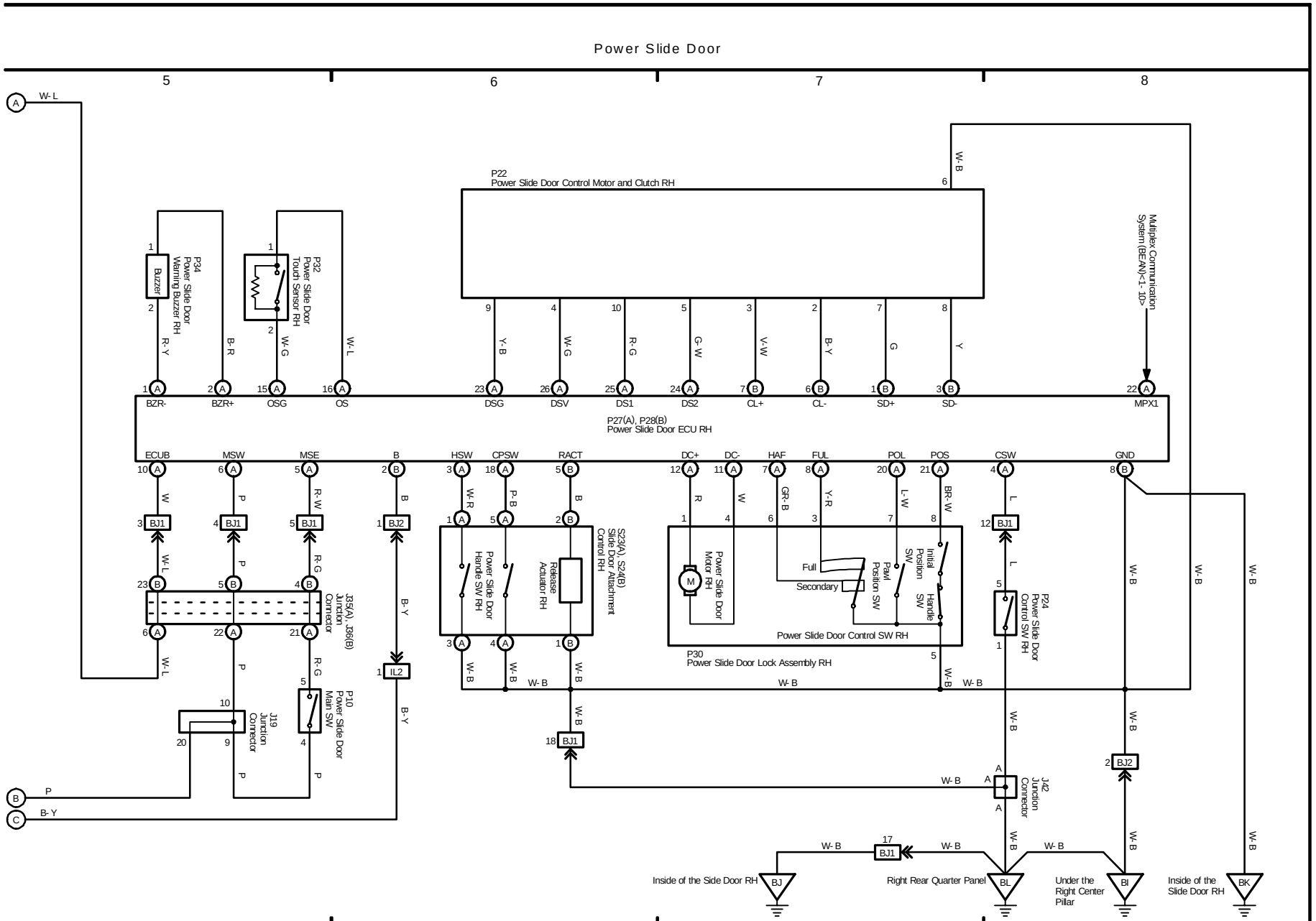

Power Source
Power Window (w/ Jam Protection)
1
2
3
4
ACC
AM1
IG1
I15
Ignition SW
W-L
B-Y
D 9
Power Window Master SW
BW IG B DD DU PLS2 VC PLS1 SGND PD PU RRU RRD RLU RLD E
7. 5A
AM1
Multiplex Communication System (BEAN)<1 - 3>
PWR Relay
IG1 Relay
30A PWR
10A ECU-IG
25A P/W
J18
Junction Connector
DOWN UP PLS2 SSRB PLS E
P40
Power Window Motor Front LH
J33(A), J34(B)
Junction Connector
J13(A), J14(B)
Junction Connector
P37
Power Window Control SW
Front RH
P39
Power Window Control SW
Rear RH
P38
Power Window Control SW
Rear LH
P41
Power Window Motor
Front RH
P43
Power Window Motor
Rear RH
P42
Power Window Motor
Rear LH
J25(A), J26(B)
Junction
Connector
J35(A), J36(B)
Junction
Connector
F 6(A), F 7(B)
Fusible Link Block
140A ALT
FL MAIN
3. 0W
Battery
W-B
IE
Left Kick Panel

M OVERALL ELECTRICAL WIRING DIAGRAM

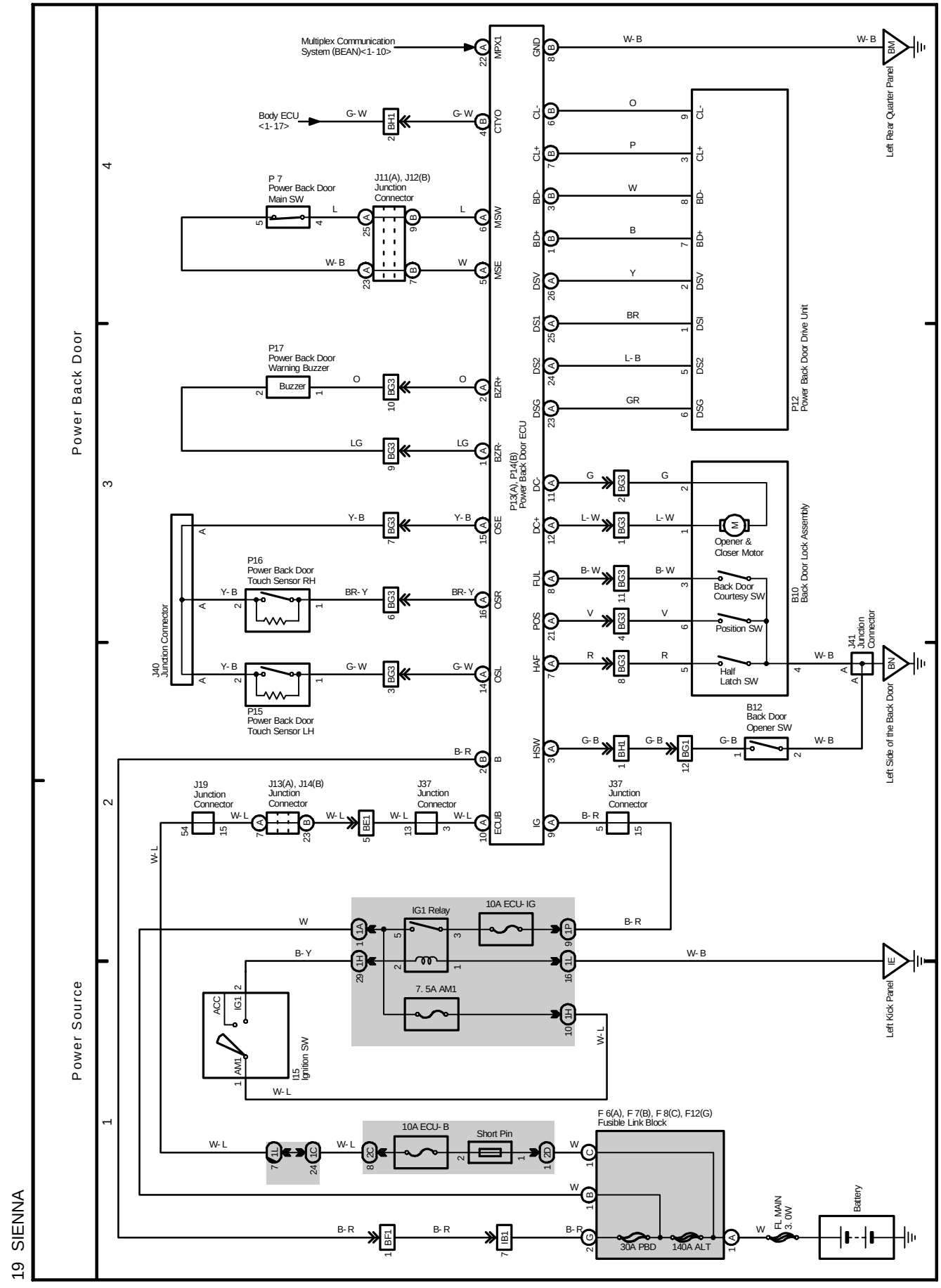


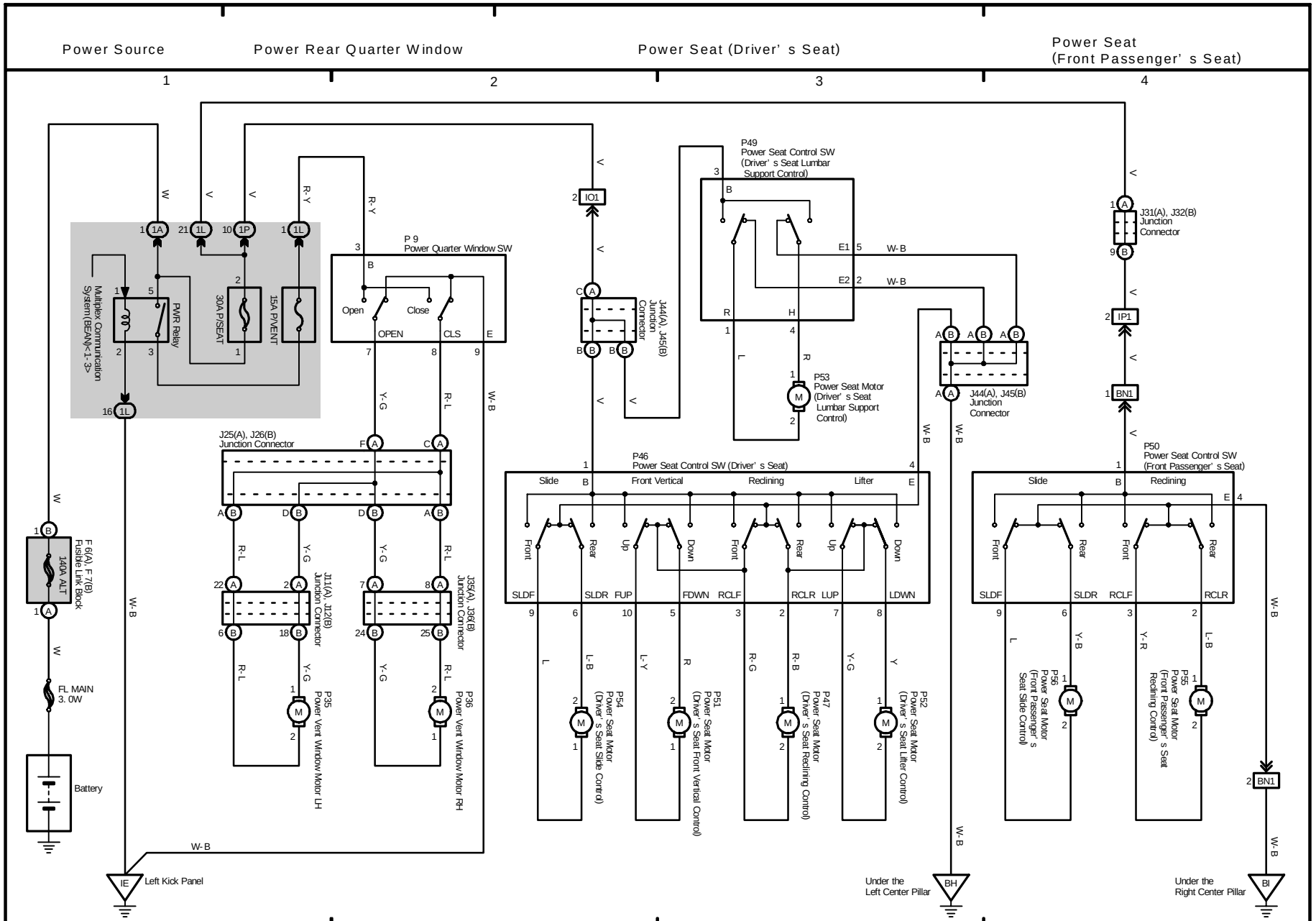
M OVERALL ELECTRICAL WIRING DIAGRAM



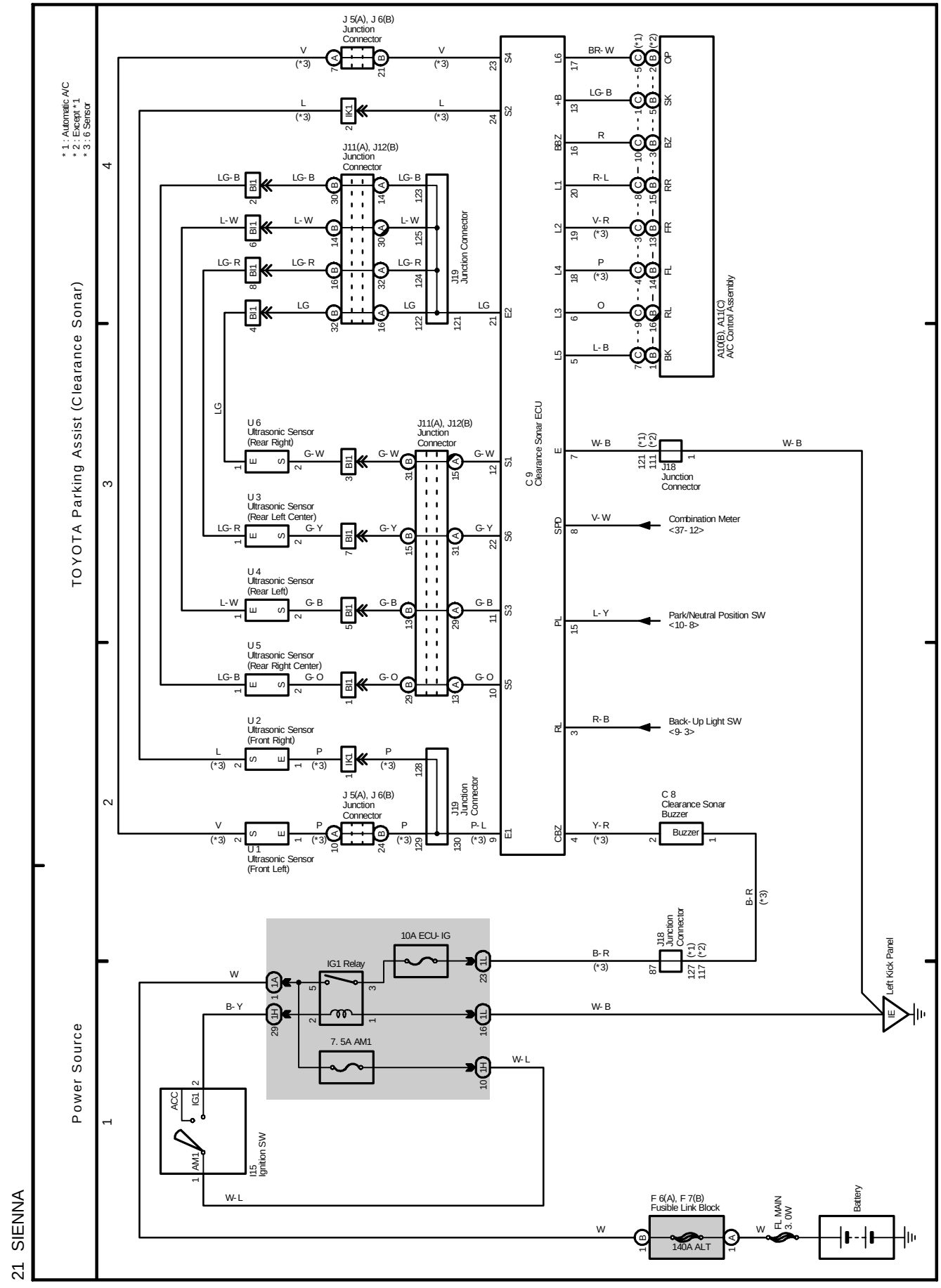

Power Slide Door
5
6
7
8
W- L
P22
Power Slide Door Control Motor and Clutch RH
W- B
Multiplex Communication System (BEAN)<1 - 10>
P34
Power Slide Door Warning Buzzer RH
Buzzer
P32
Power Slide Door Touch Sensor RH
R- Y
B- R
W- G
W- L
Y- B
W- G
R- G
G- W
V- W
B- Y
G
Y
BZR-
BZR+
OSG
OS
DSG
DSV
DS1
DS2
CL+
CL-
SD+
SD-
MPX1
P27(A), P28(B)
Power Slide Door ECU RH
ECUB
MSW
MSE
B
HSW
CPSW
RACT
DC+
DC-
HAF
FUL
POL
POS
CSW
GND
W
P
R- W
B
W- R
P- B
B
R
W
GR- B
Y- R
L- W
BR- W
L
BJ1
BJ2
W- L
R- G
B- Y
L
S23(A), S24(B)
Slide Door Attachment Control RH
Power Slide Door Handle SW RH
Release Actuator RH
Power Slide Door Motor RH
Full
Secondary
PaWI Position SW
Initial Handle SW
Power Slide Door Control SW RH
P30
Power Slide Door Lock Assembly RH
P24
Power Slide Door Control SW RH
W- B
S35(A), S36(B)
Junction Connector
IL2
J19
Junction Connector
P10
Power Slide Door Main SW
P
B- Y
J42
Junction Connector
Inside of the Side Door RH
Right Rear Quarter Panel
Under the Right Center Pillar
Inside of the Slide Door RH
BJ
BL
BI
BK

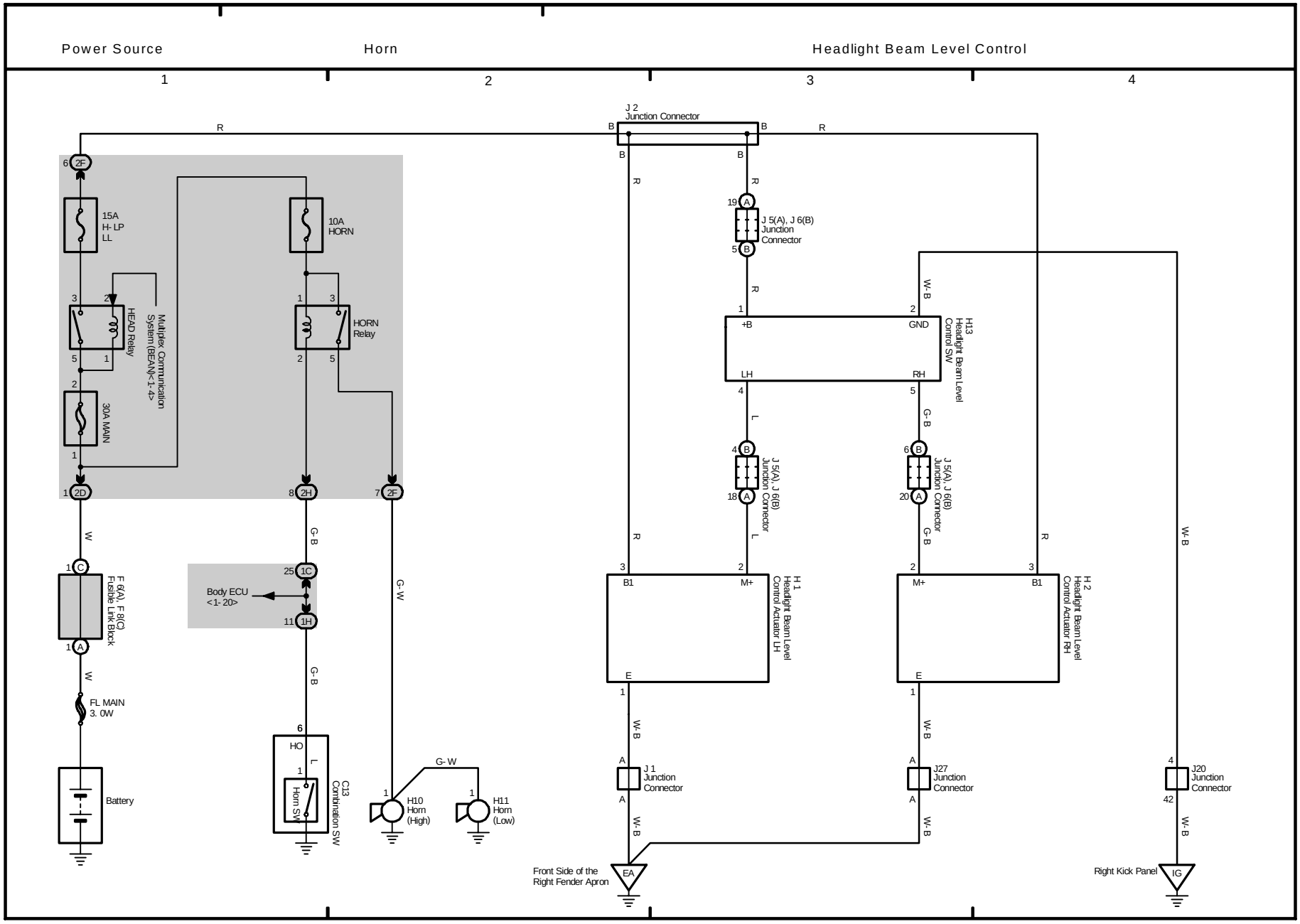
M OVERALL ELECTRICAL WIRING DIAGRAM



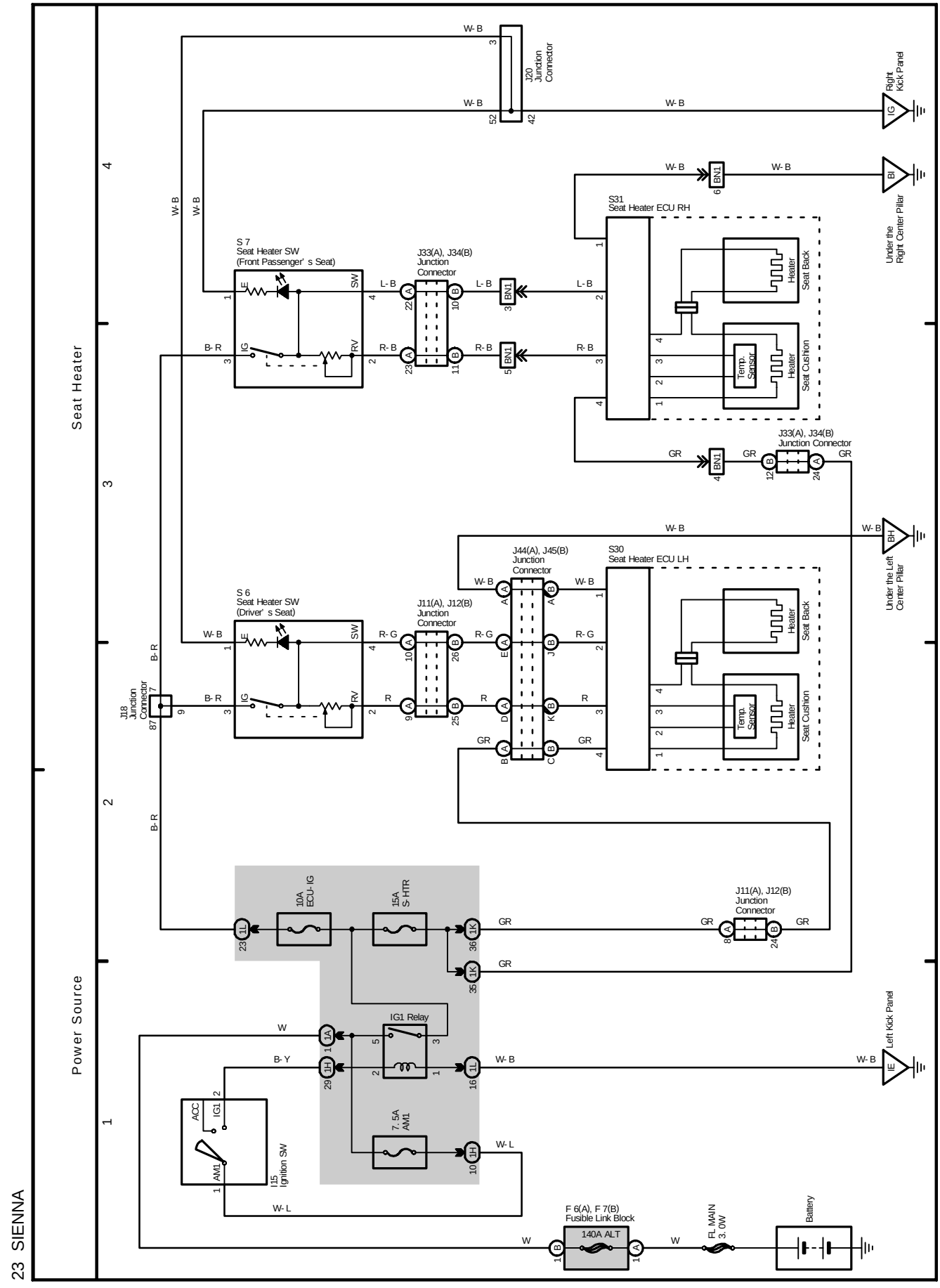

Power Source
Power Rear Quarter Window
Power Seat (Driver' s Seat)
Power Seat
(Front Passenger' s Seat)
1
2
3
4
Multiplex Communication System (BEAN)<1-3>
PWR Relay
30A P/SEAT
15A P/VENT
P 9
Power Quarter Window SW
Open
Close
OPEN
CLS
J25(A), J26(B)
Junction Connector
J11(A), J12(B)
Junction Connector
J35(A), J36(B)
Junction Connector
P35
Power Vent Window Motor LH
P36
Power Vent Window Motor RH
144(A), 145(B)
Junction Connector
P49
Power Seat Control SW
(Driver' s Seat Lumbar
Support Control)
P53
Power Seat Motor
(Driver' s Seat
Lumbar Support
Control)
J44(A), J45(B)
Junction
Connector
P46
Power Seat Control SW (Driver' s Seat)
Slide
Front Vertical
Reclining
Lifter
SLDF
SLDR
FUP
FDWN
RCLF
RCLR
LUP
LDWN
P54
Power Seat Motor
(Driver' s Seat Slide Control)
P51
Power Seat Motor
(Driver' s Seat Front Vertical Control)
P47
Power Seat Motor
(Driver' s Seat Reclining Control)
P52
Power Seat Motor
(Driver' s Seat Lifter Control)
J31(A), J32(B)
Junction
Connector
P50
Power Seat Control SW
(Front Passenger' s Seat)
P56
Power Seat Motor
(Front Passenger' s
Seat Slide Control)
P55
Power Seat Motor
(Front Passenger' s Seat
Reclining Control)
F 6(A), F 7(B)
Fusible Link Block
140A ALT
FL MAIN
3. 0W
Battery
Left Kick Panel
Under the
Left Center Pillar
Under the
Right Center Pillar

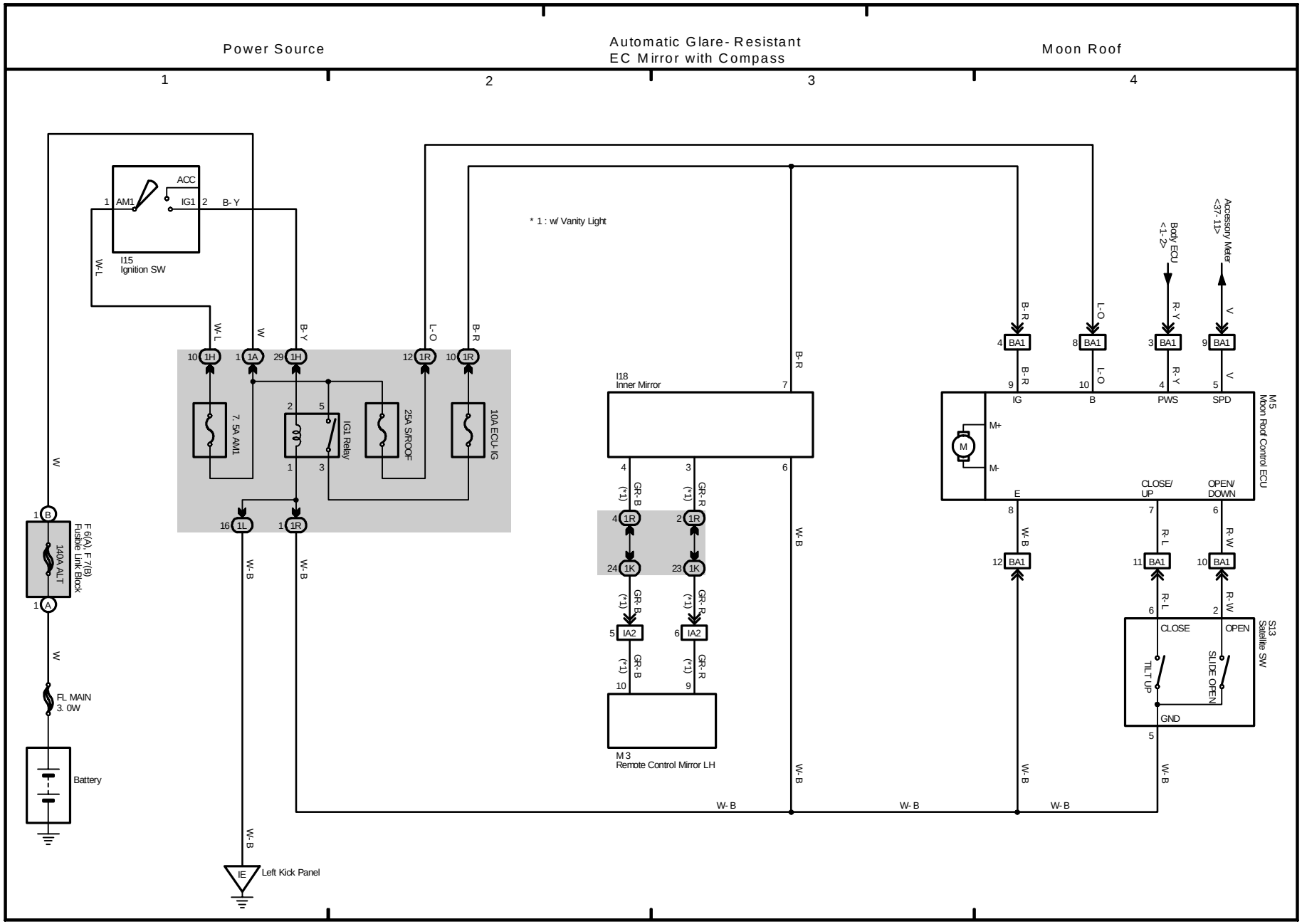
M OVERALL ELECTRICAL WIRING DIAGRAM



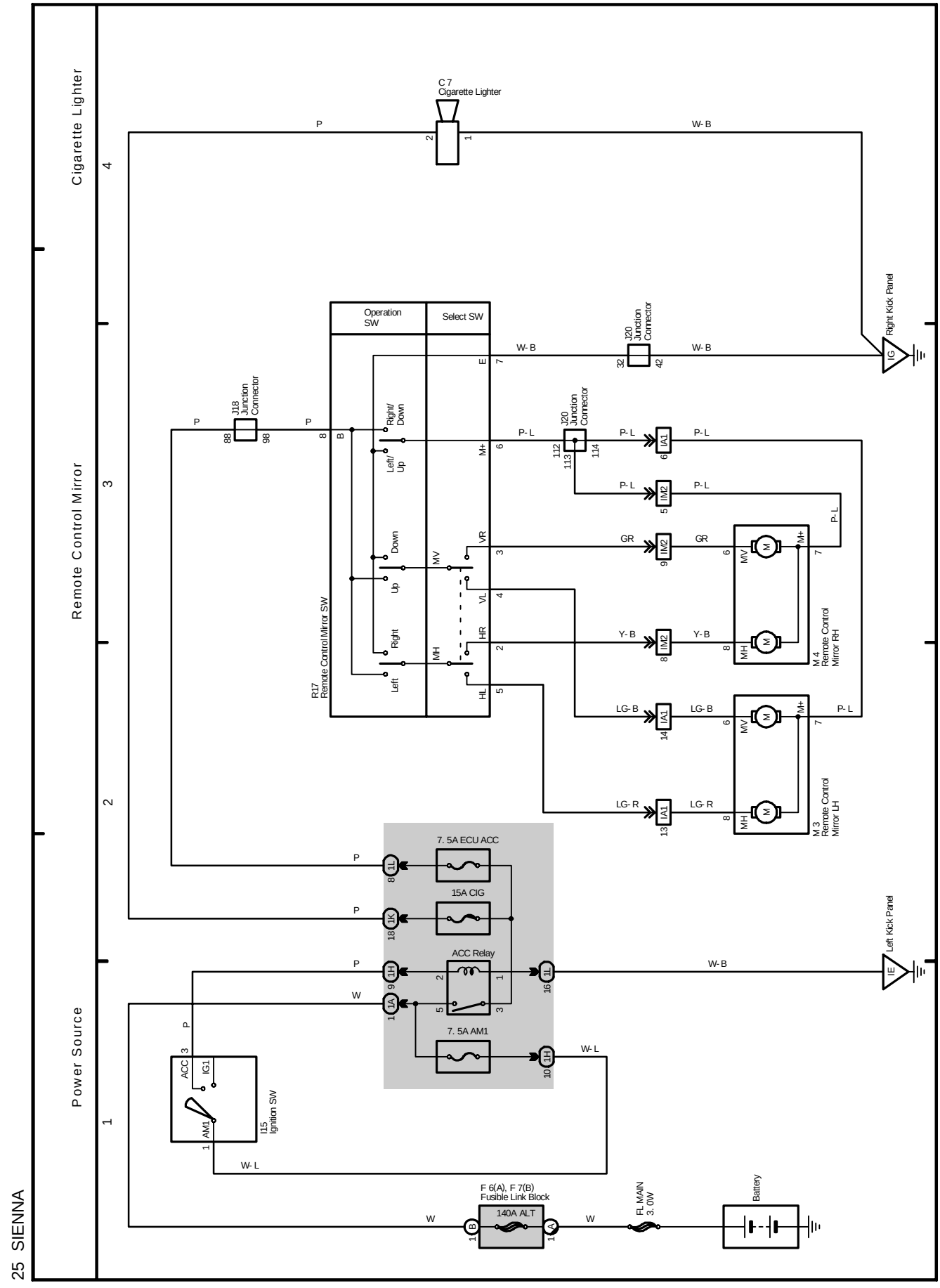

Power Source
Horn
Headlight Beam Level Control
1
2
3
4
J 2
Junction Connector
15A
H- LP
LL
10A
HORN
HEAD Relay
HORN
Relay
Multiplex Communication
System (BEAN)<1- 4>
30A MAIN
F 6(A), F 8(C)
Fusible Link Block
FL MAIN
3. 0W
Battery
Body ECU
<1- 20>
C13
Combination SW
Horn SW
H10
Horn
(High)
H11
Horn
(Low)
J 5(A), J 6(B)
Junction
Connector
H13
Headlight Beam Level
Control SW
+B
GND
LH
RH
J 5(A), J 6(B)
Junction Connector
H 1
Headlight Beam Level
Control Actuator LH
H 2
Headlight Beam Level
Control Actuator RH
B1
M+
J 1
Junction
Connector
J27
Junction
Connector
J20
Junction
Connector
Front Side of the
Right Fender Apron
EA
Right Kick Panel
IG

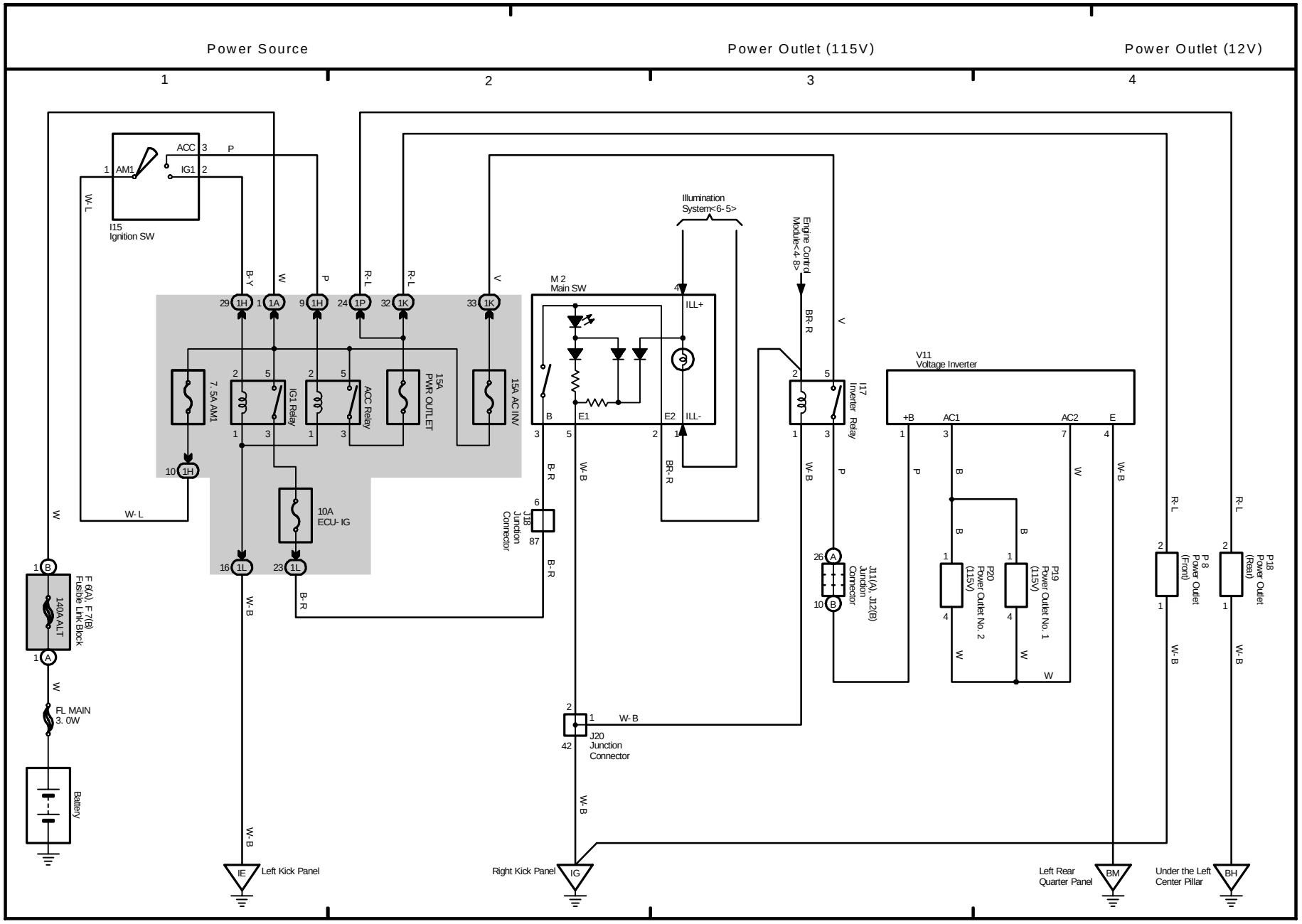
M OVERALL ELECTRICAL WIRING DIAGRAM



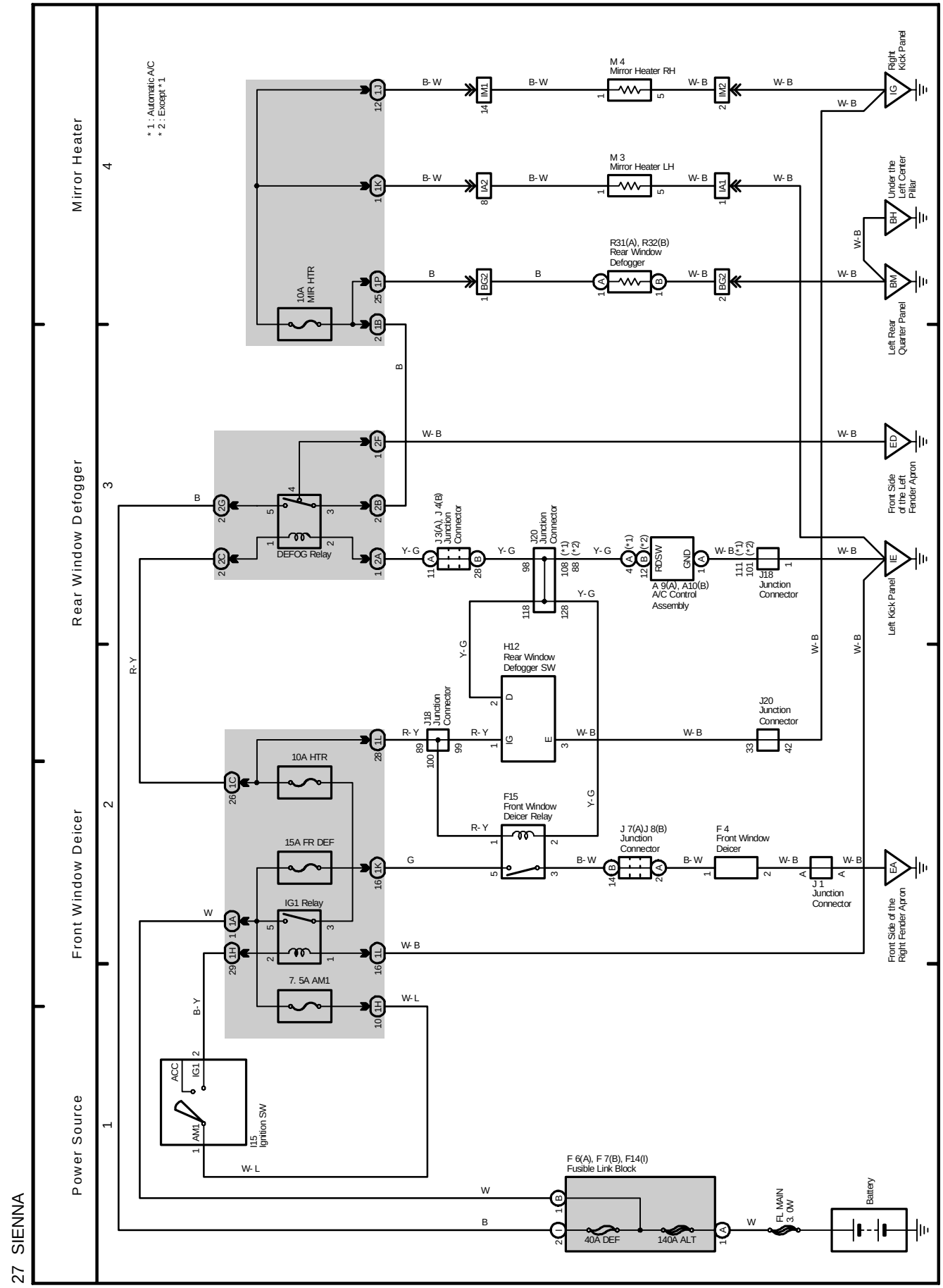

Power Source
Automatic Glare- Resistant EC Mirror with Compass
Moon Roof
1
2
3
4
* 1 : w/ Vanity Light
I15 Ignition SW
ACC
AM1
IG1
B- Y
W- L
W
B- Y
L- O
B- R
7. 5A AM1
IG1 Relay
25A S/ROOF
10A ECU- IG
1H
1A
1R
1L
F 6(A), F 7(B) Fusible Link Block
140A ALT
FL MAIN 3. 0W
Battery
IE
Left Kick Panel
I18 Inner Mirror
M 3 Remote Control Mirror LH
GR- B
GR- R
1K
IA2
W- B
Body ECU <1- 2>
Accessory Meter <37- 11>
R- Y
V
BA1
M5 Moon Roof Control ECU
IG
B
PWS
SPD
M+
M-
E
CLOSE/ UP
OPEN/ DOWN
R- L
R- W
S13 Satellite SW
CLOSE
OPEN
TILT UP
SLIDE OPEN
GND

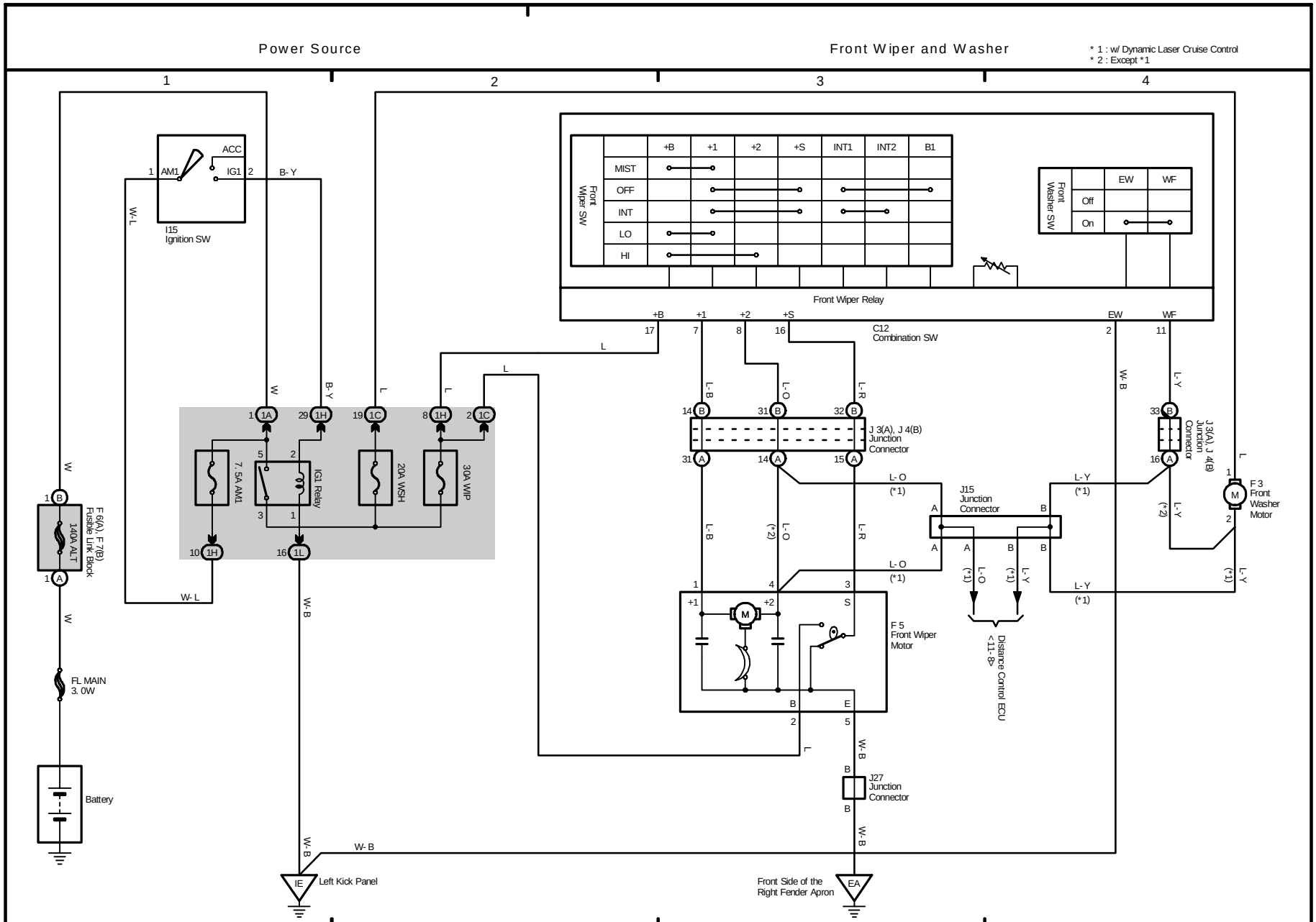
M OVERALL ELECTRICAL WIRING DIAGRAM



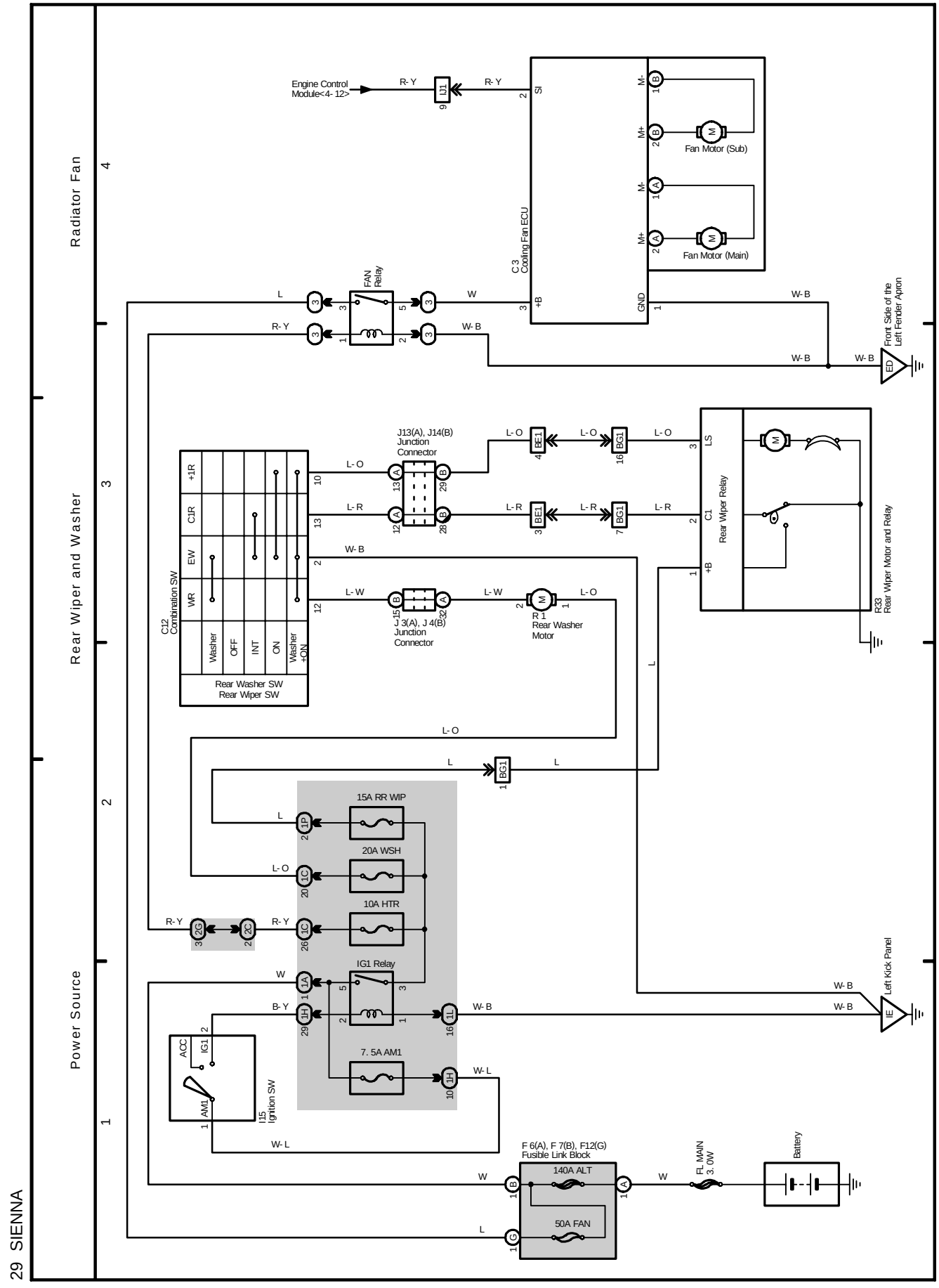

Power Source
Power Outlet (115V)
Power Outlet (12V)
1
2
3
4
I15
Ignition SW
ACC
IG1
AM1
7. 5A AM1
IG1 Relay
ACC Relay
15A PWR OUTLET
15A AC INV
10A ECU- IG
M 2
Main SW
ILL+
ILL-
Illumination System<6- 5>
Engine Control Module<4- 8>
I17
Inverter Relay
V11
Voltage Inverter
+B
AC1
AC2
E
J11(A), J12(B) Junction Connector
P20 Power Outlet No. 2 (115V)
P19 Power Outlet No. 1 (115V)
P8 Power Outlet (Front)
P18 Power Outlet (Rear)
J15 Junction Connector
J20 Junction Connector
F 6(A), F 7(B) Fusible Link Block
140A ALT
FL MAIN
3. 0W
Battery
IE
Left Kick Panel
IG
Right Kick Panel
BM
Left Rear Quarter Panel
BH
Under the Left Center Pillar

M OVERALL ELECTRICAL WIRING DIAGRAM

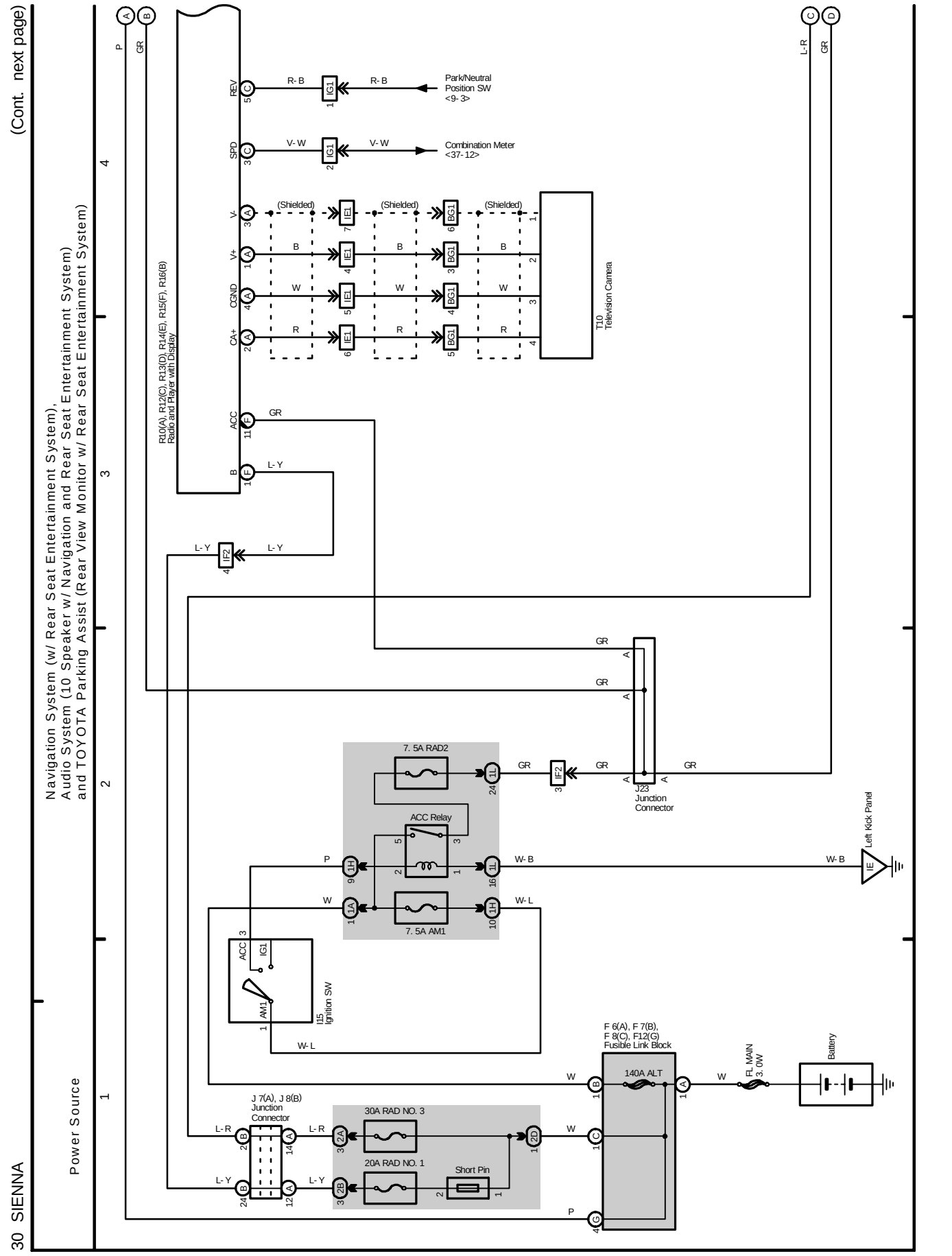



Power Source
Front Wiper and Washer
* 1 : w/ Dynamic Laser Cruise Control
* 2 : Except *1
1
2
3
4
ACC
AM1
IG1
B- Y
I15
Ignition SW
W- L
Front Wiper SW
MIST
OFF
INT
LO
HI
+B
+1
+2
+S
INT1
INT2
B1
Front Wiper Relay
Front Washer SW
Off
On
EW
WF
C12
Combination SW
17
7
8
16
2
11
L
W
B- Y
W- B
L- Y
L- B
L- O
L- R
1A
29 1H
19 1C
8 1H
2 1C
7. 5A AM1
IG1 Relay
20A WSH
30A WIP
J 3(A), J 4(B)
Junction
Connector
J15
Junction
Connector
F 3
Front
Washer
Motor
(*1)
(*2)
F 6(A), F 7(B)
Fusible Link Block
140A ALT
FL MAIN
3. 0W
Battery
F 5
Front Wiper
Motor
Distance Control ECU
<11- 8>
J27
Junction
Connector
IE
Left Kick Panel
EA
Front Side of the
Right Fender Apron

M OVERALL ELECTRICAL WIRING DIAGRAM

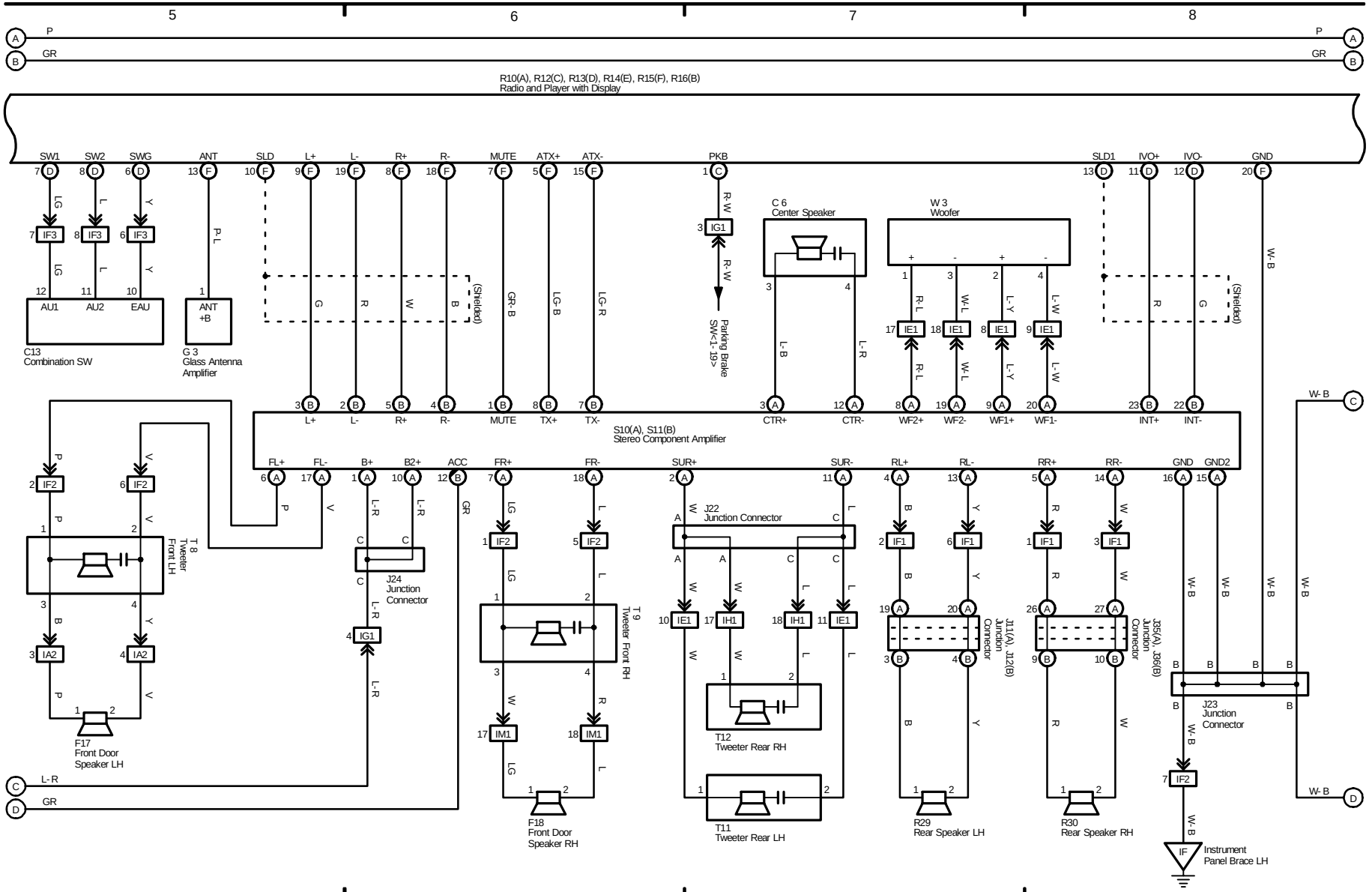


M OVERALL ELECTRICAL WIRING DIAGRAM



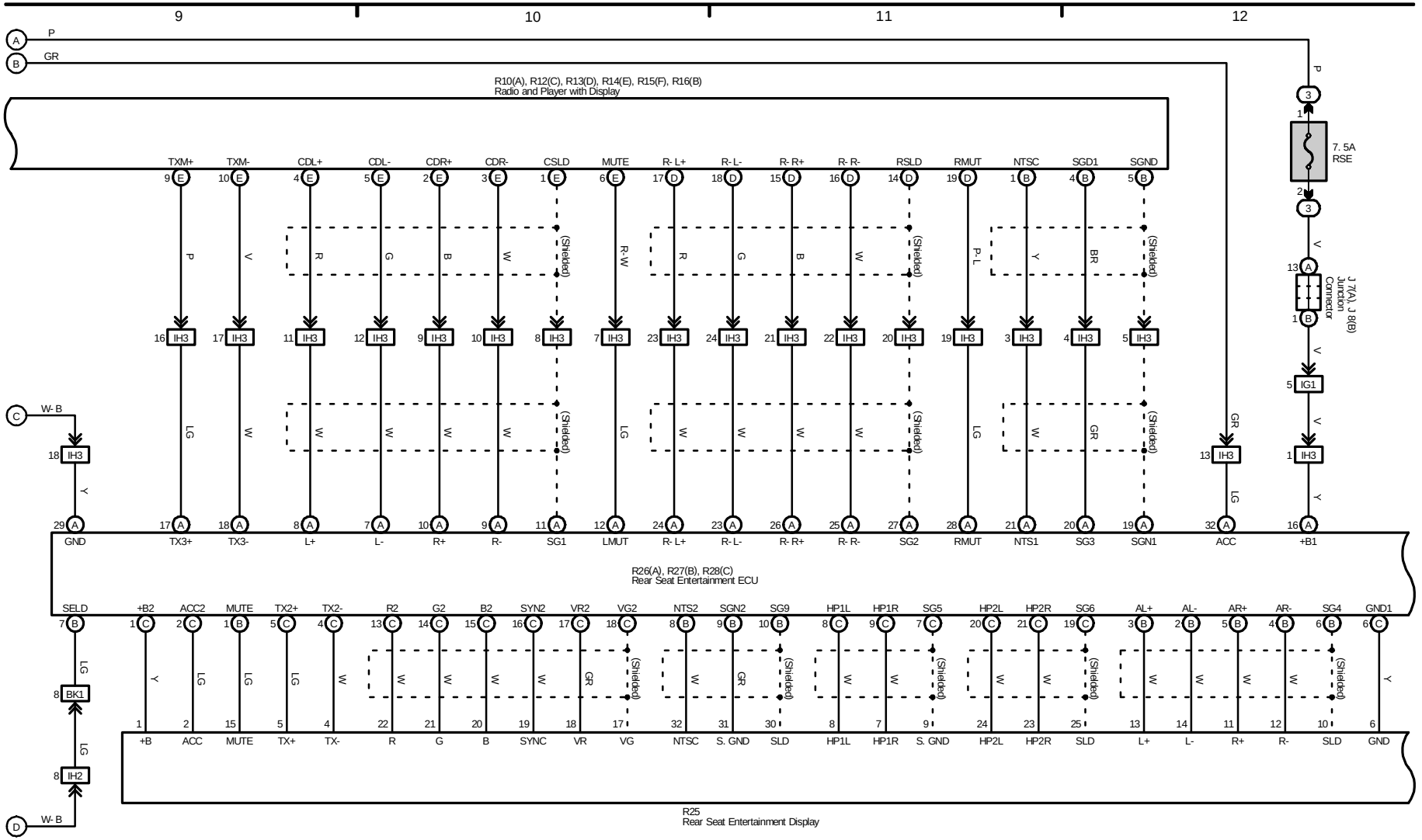
(Cont. next page)

Navigation System (w/ Rear Seat Entertainment System),
Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System)
and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Entertainment System)



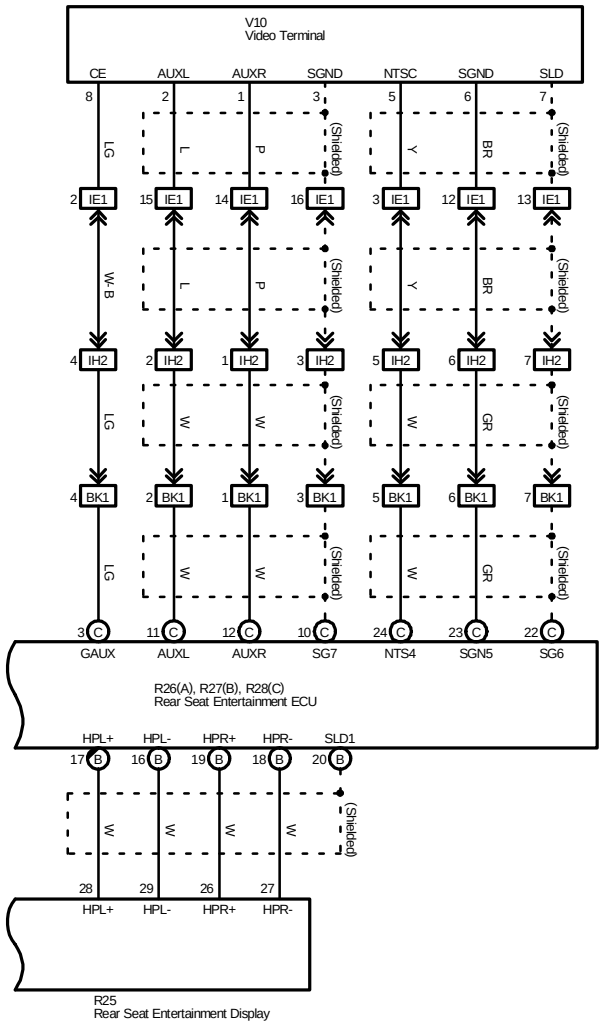
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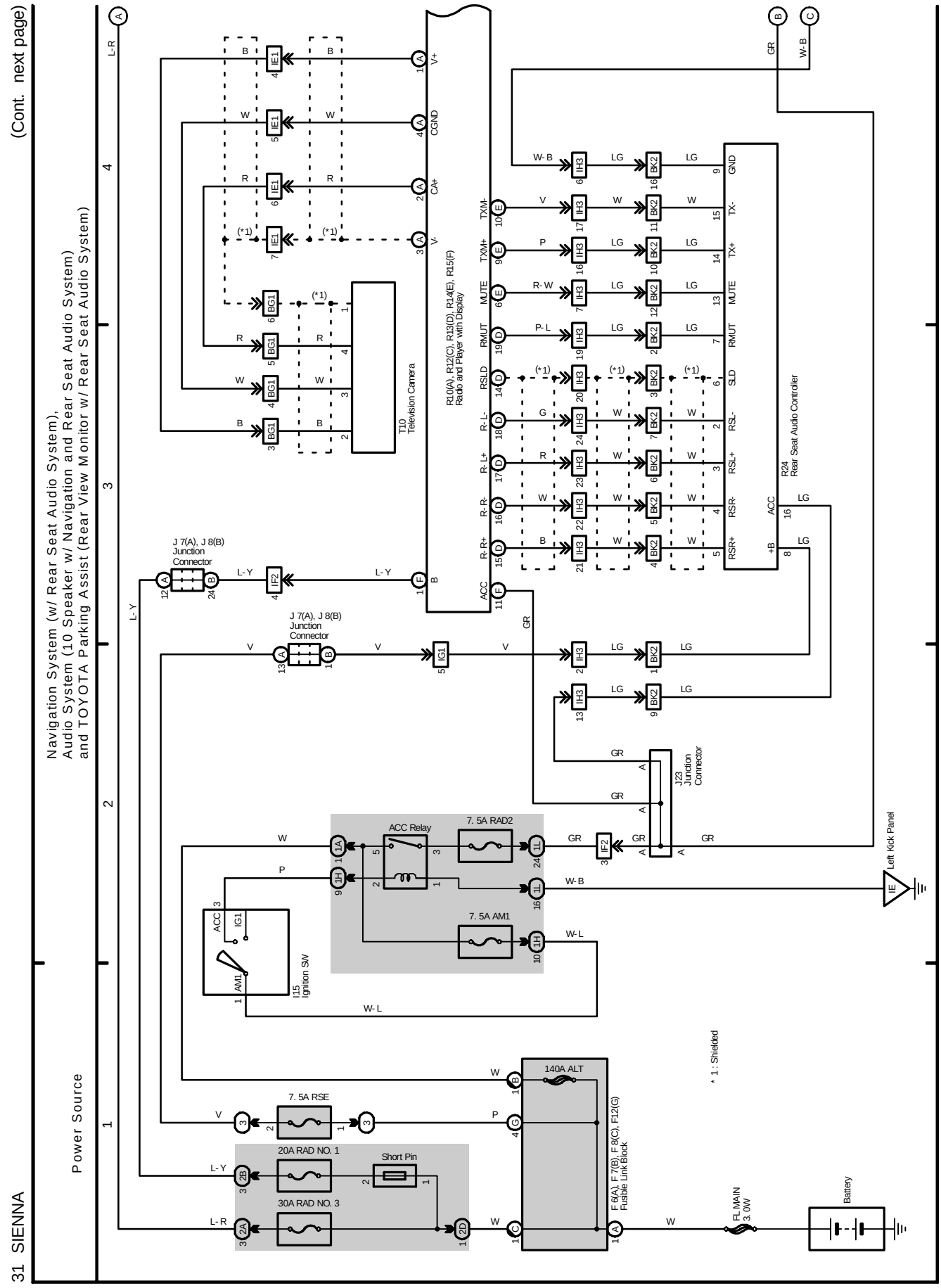
Navigation System (w/ Rear Seat Entertainment System),
Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System)
and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Entertainment System)



Navigation System (w/ Rear Seat Entertainment System),
Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System)
and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Entertainment System)

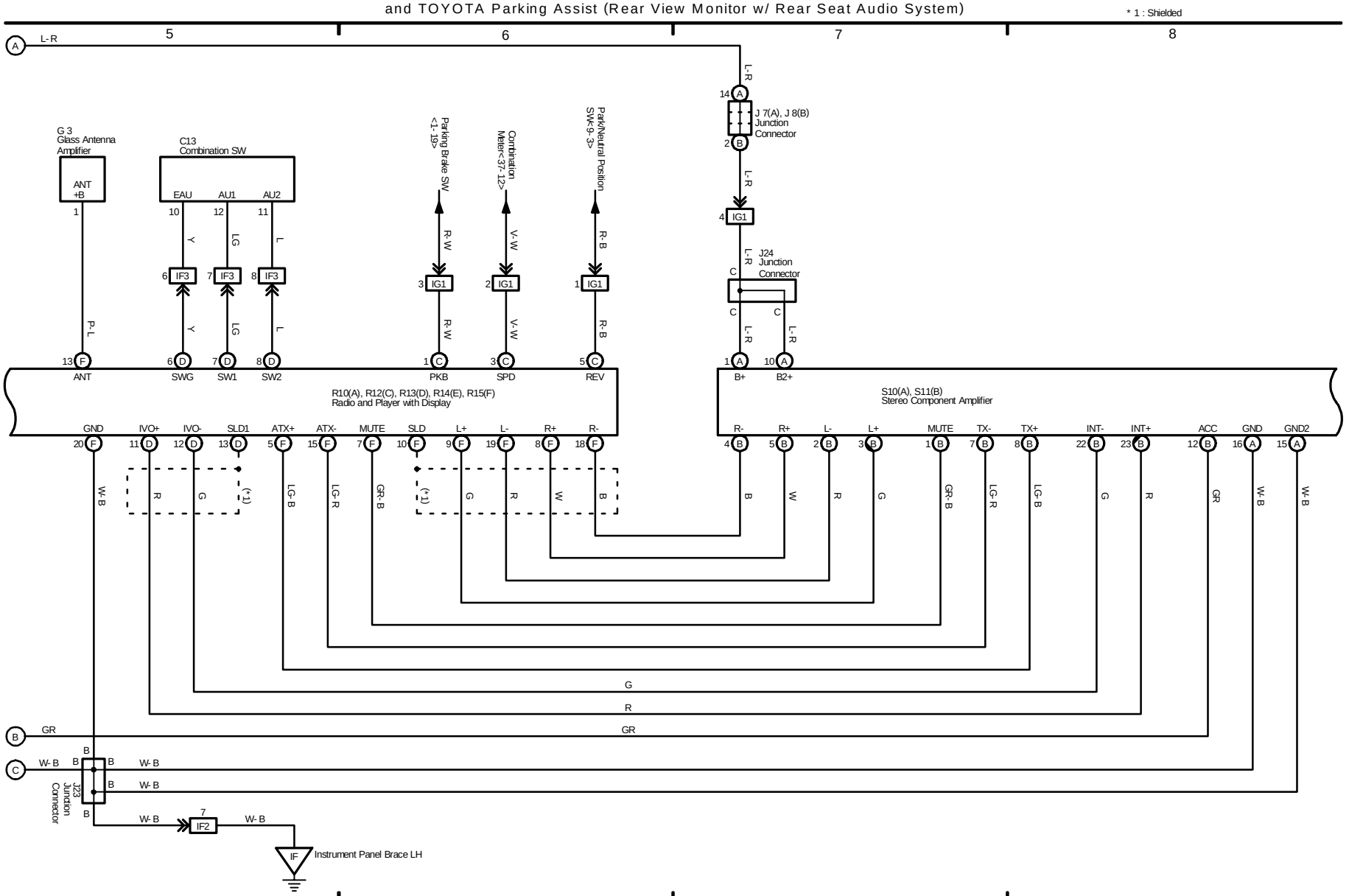
13 14 15 16

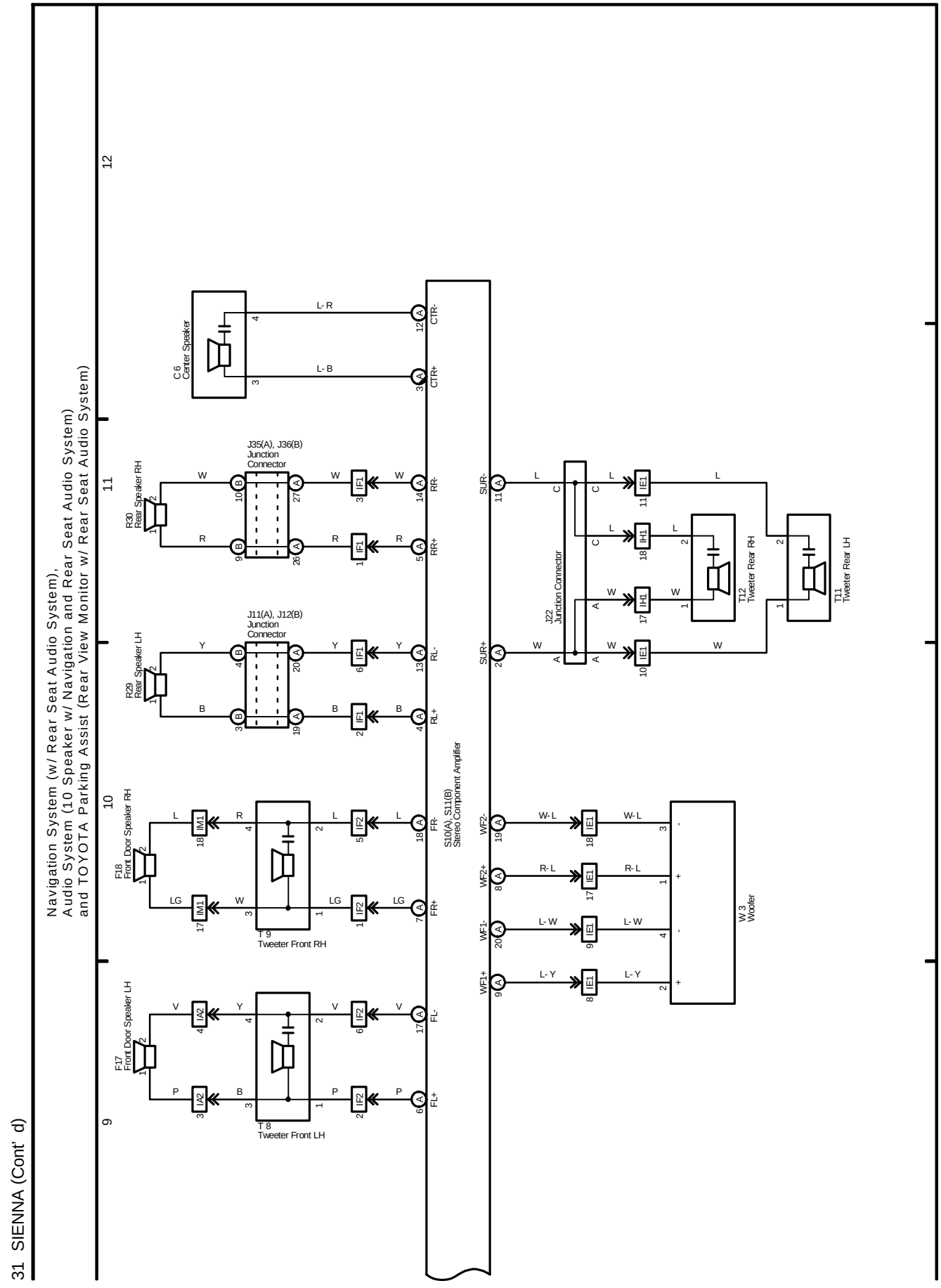



(Cont. next page)
Navigation System (w/ Rear Seat Audio System),
Audio System (10 Speaker w/ Navigation and Rear Seat Audio System)
and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Audio System)
Power Source
31 SIENNA
R10(A), R12(C), R13(D), R14(E), R15(F)
Radio and Player with Display
T10
Television Camera
R24
Rear Seat Audio Controller
J 7(A), J 8(B)
Junction
Connector
J23
Junction
Connector
ACC Relay
7. 5A RAD2
7. 5A AM1
7. 5A RSE
20A RAD NO. 1
30A RAD NO. 3
Short Pin
140A ALT
I15
Ignition SW
F 6(A), F 7(B), F 8(C), F12(G)
Fusible Link Block
FL MAIN
3. 0W
Battery
Left Kick Panel
* 1 : Shielded

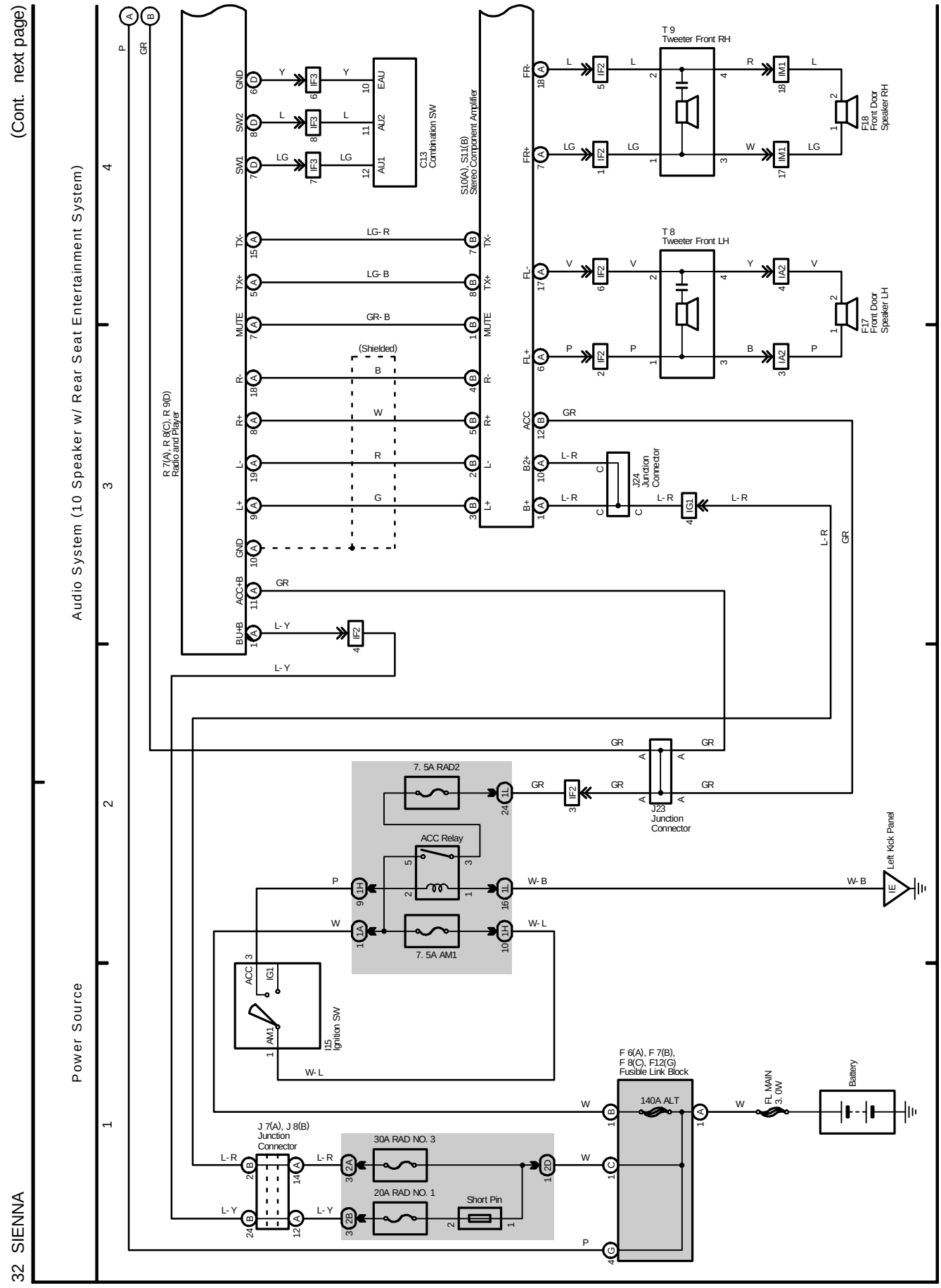
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Navigation System (w/ Rear Seat Audio System),
Audio System (10 Speaker w/ Navigation and Rear Seat Audio System)
and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Audio System)



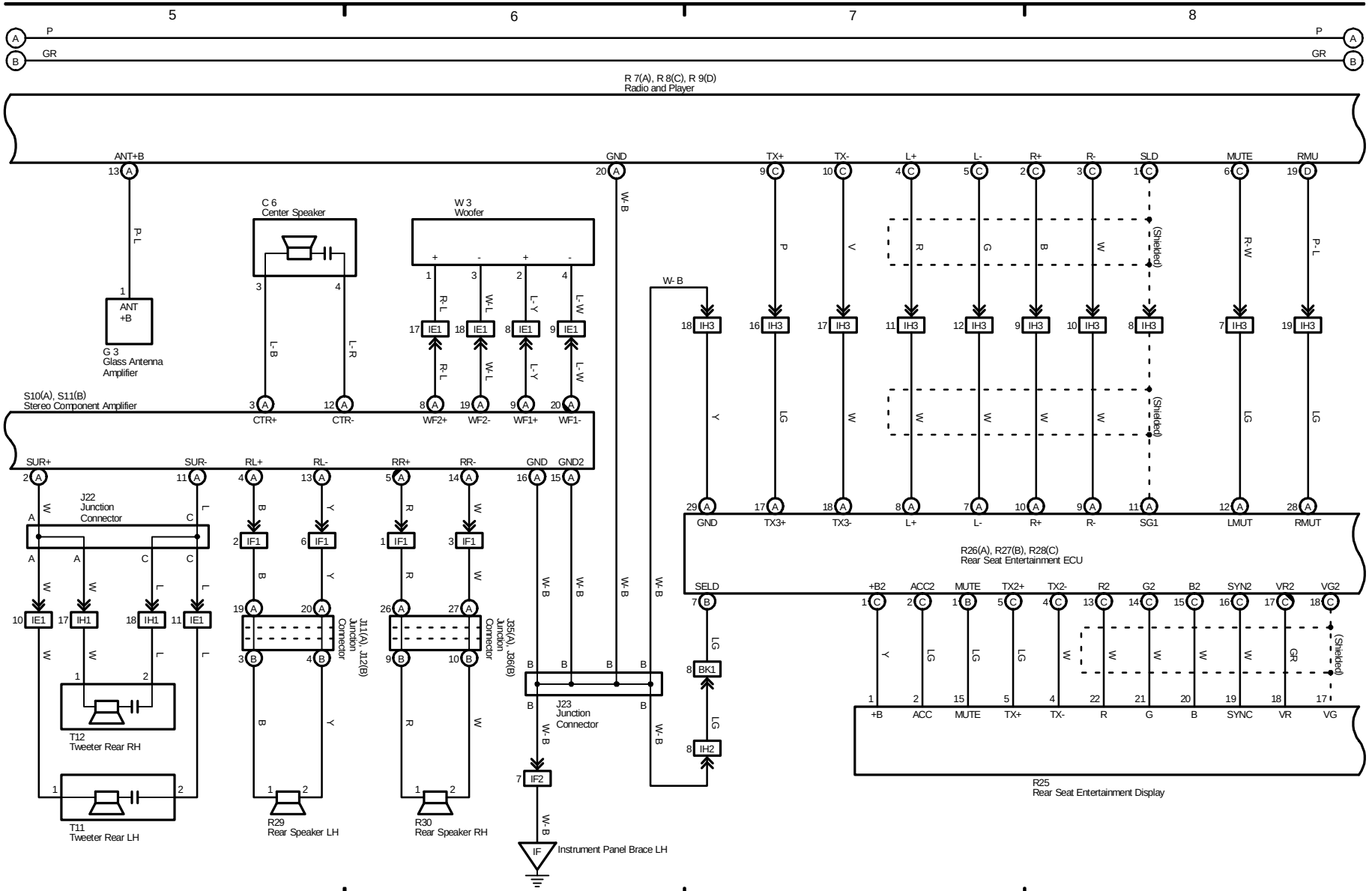

31 SIENNA (Cont' d)
Navigation System (w/ Rear Seat Audio System),
Audio System (10 Speaker w/ Navigation and Rear Seat Audio System)
and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Audio System)
12
11
10
9
C6
Center Speaker
L-R
L-B
CTR-
CTR+
J35(A), J36(B)
Junction
Connector
R30
Rear Speaker RH
RR-
RR+
J11(A), J12(B)
Junction
Connector
R29
Rear Speaker LH
RL-
RL+
F18
Front Door Speaker RH
T 9
Tweeter Front RH
FR-
FR+
F17
Front Door Speaker LH
T 8
Tweeter Front LH
FL-
FL+
S10(A), S11(B)
Stereo Component Amplifier
SUR-
SUR+
J22
Junction Connector
T12
Tweeter Rear RH
T11
Tweeter Rear LH
WF2-
WF2+
WF1-
WF1+
W-L
R-L
L-W
L-Y
W 3
Woofer

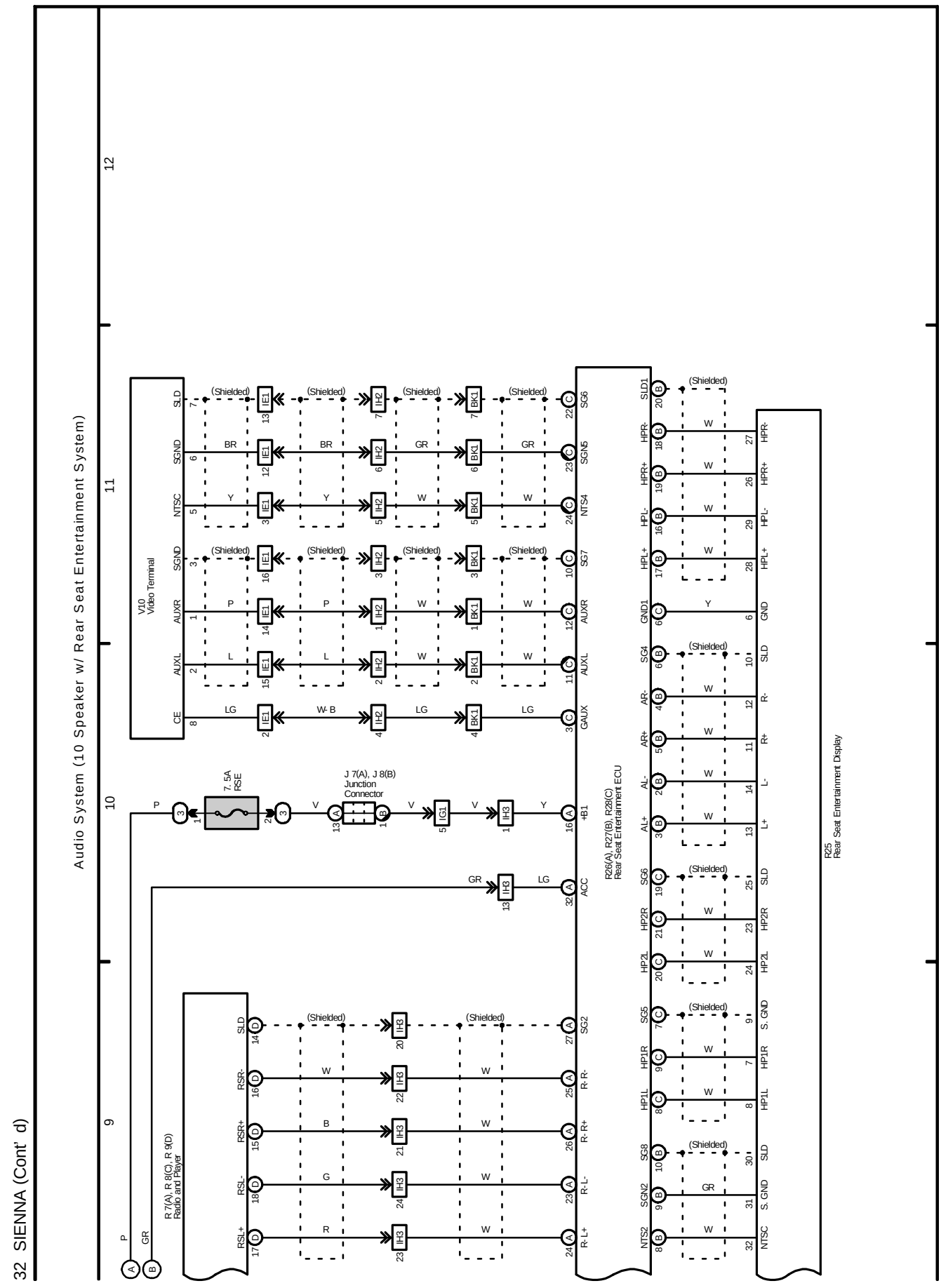
M OVERALL ELECTRICAL WIRING DIAGRAM



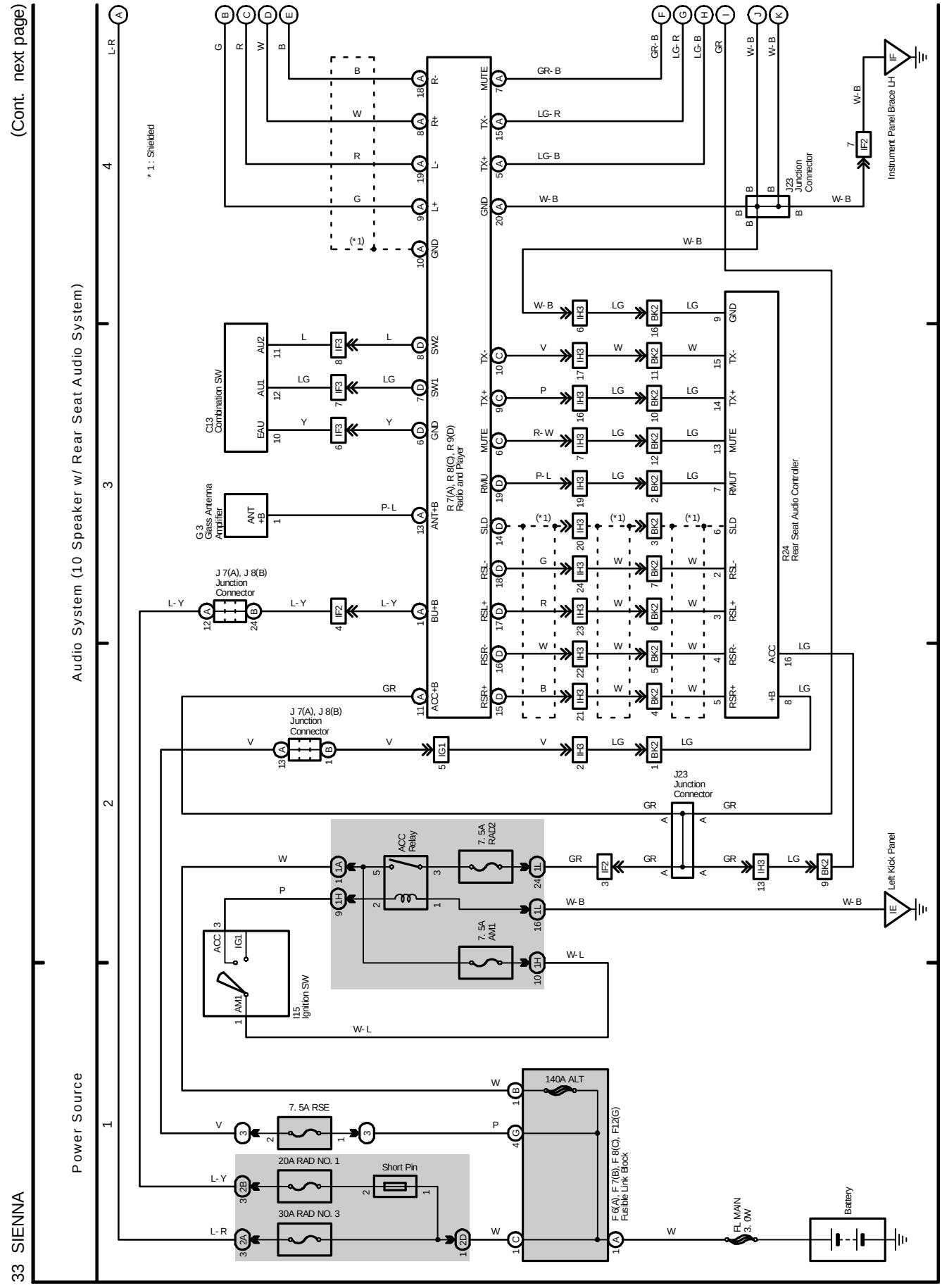
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Audio System (10 Speaker w/ Rear Seat Entertainment System)

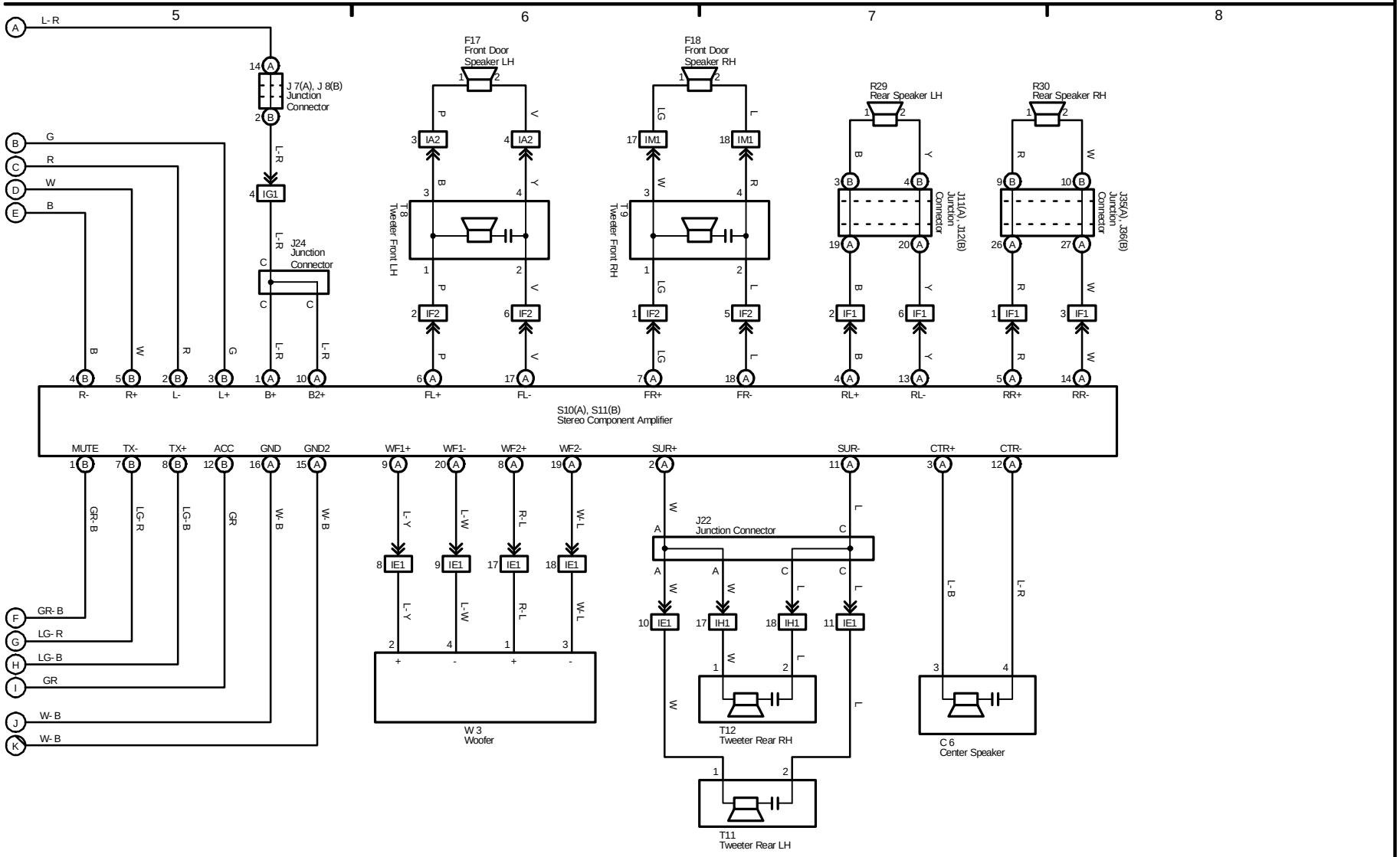


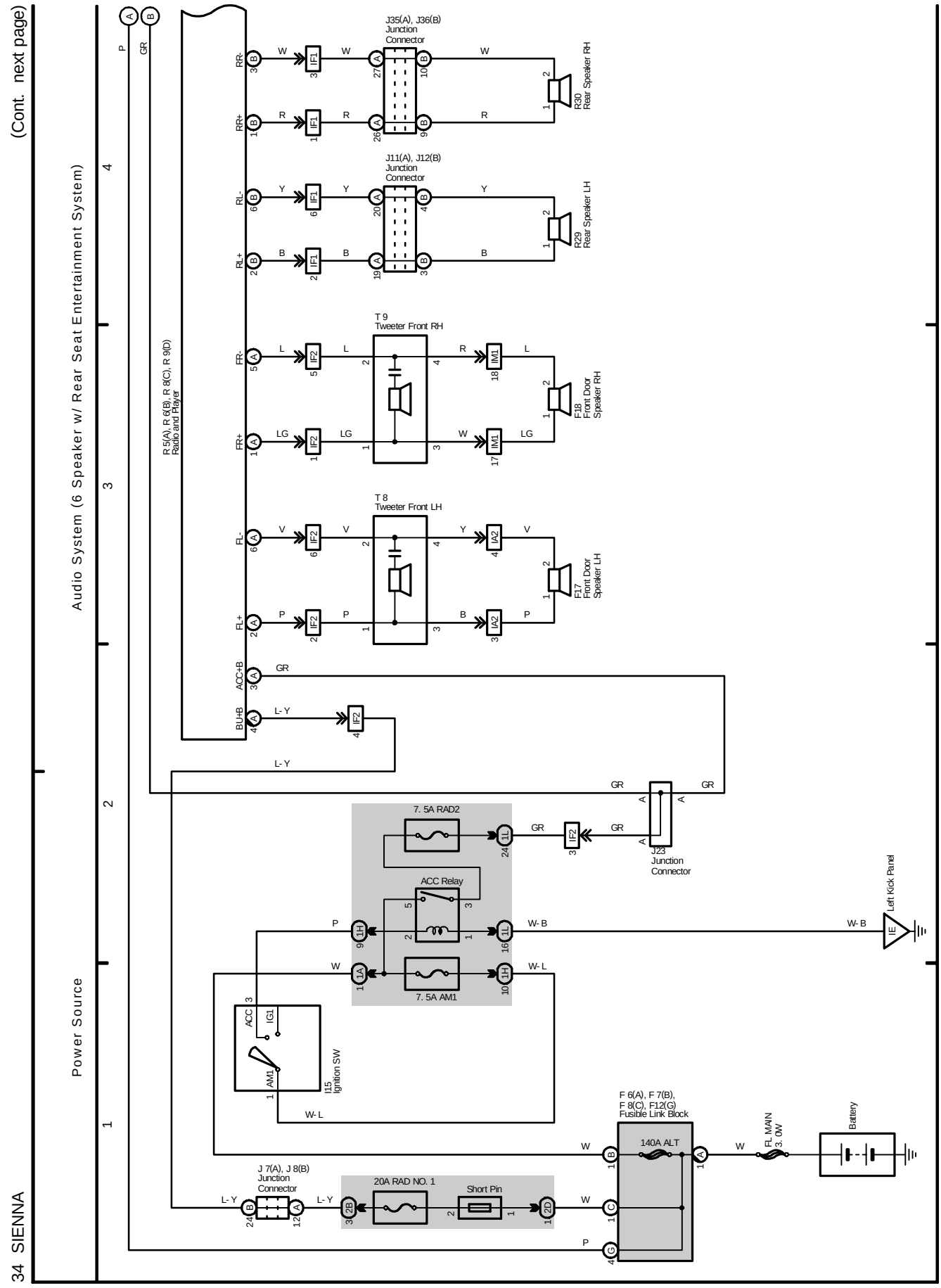

32 SIENNA (Cont' d)
Audio System (10 Speaker w/ Rear Seat Entertainment System)
9
10
11
12
V10
Video Terminal
AUXL
AUXR
SGND
NTSC
SLD
CE
(Shielded)
7.5A
RSE
J 7(A), J 8(B)
Junction
Connector
IG1
IH3
+B1
ACC
GAUX
SG2
SG6
SGN5
NTS4
SG7
R26(A), R27(B), R28(C)
Rear Seat Entertainment ECU
R25
Rear Seat Entertainment Display
R.7(A), R.8(C), R.9(D)
Radio and Player
RSL+
RSL-
RSR+
RSR-
R-L+
R-L-
R-R+
R-R-
SG8
SGN2
NTS2
SG5
HP1R
HP1L
HP2R
HP2L
S. GND
SG4
AL+
AL-
AR+
AR-
GND1
HPL+
HPL-
HPR+
HPR-
SLD1

M OVERALL ELECTRICAL WIRING DIAGRAM

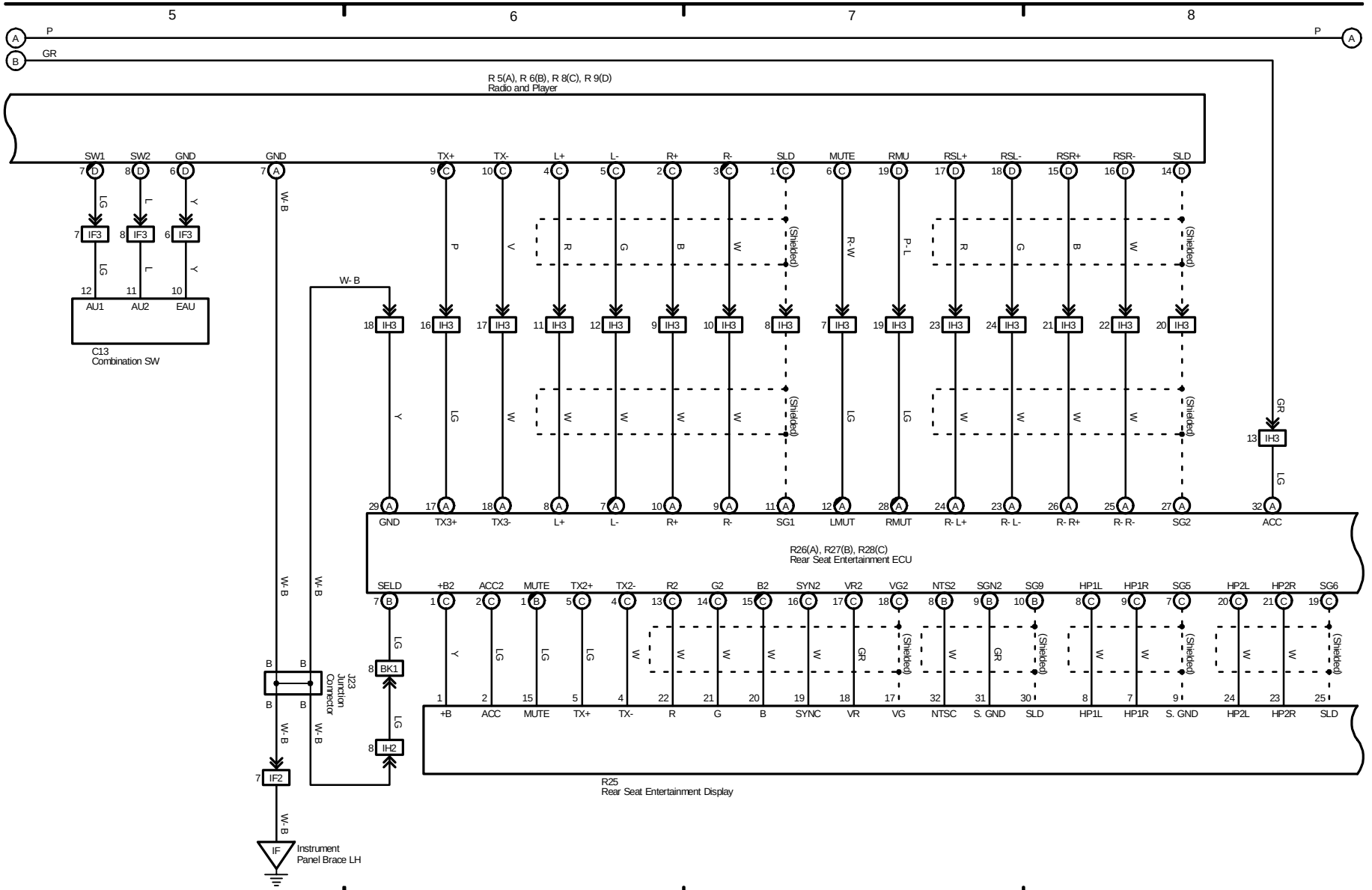


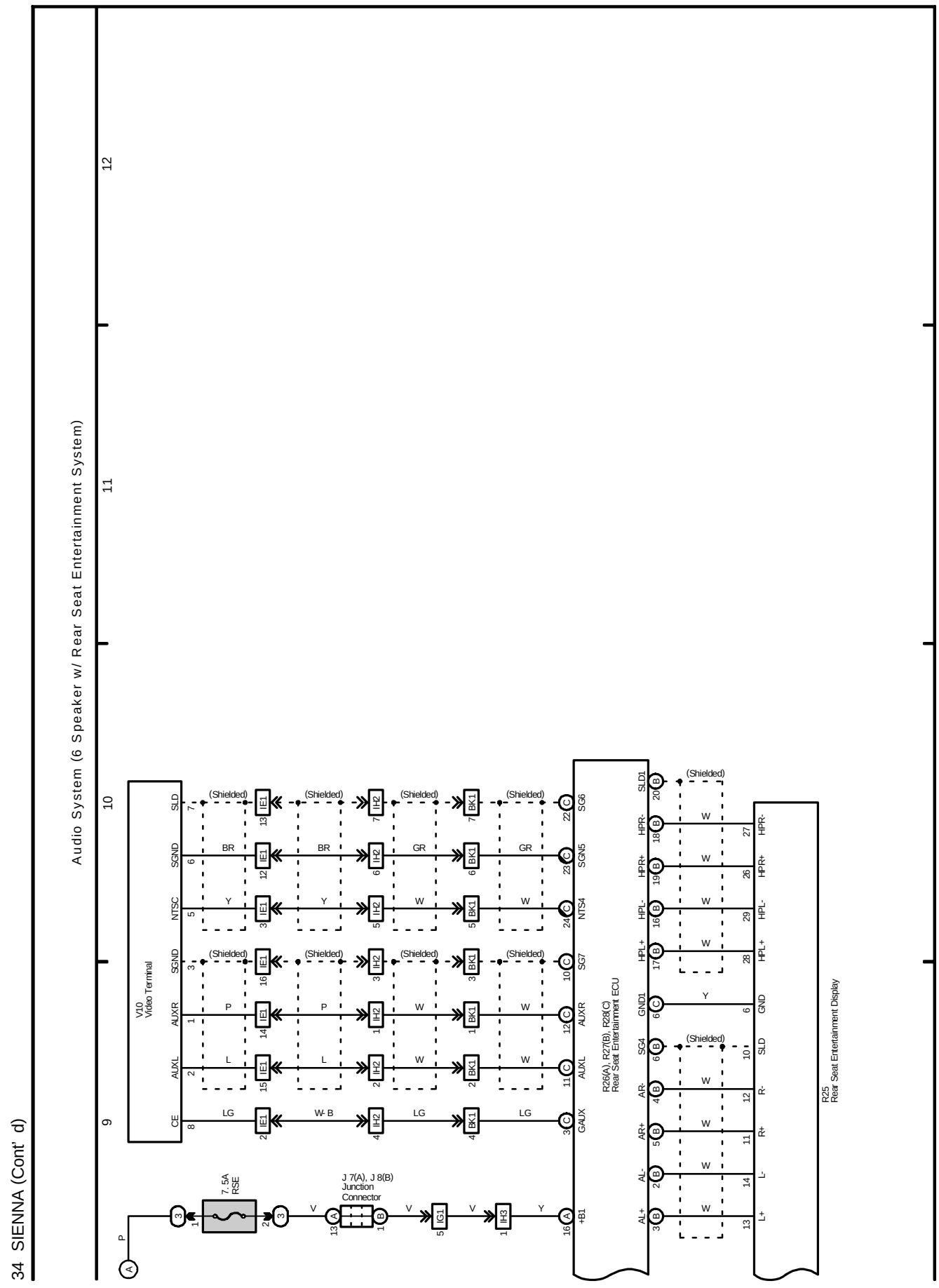
Audio System (10 Speaker w/ Rear Seat Audio System)

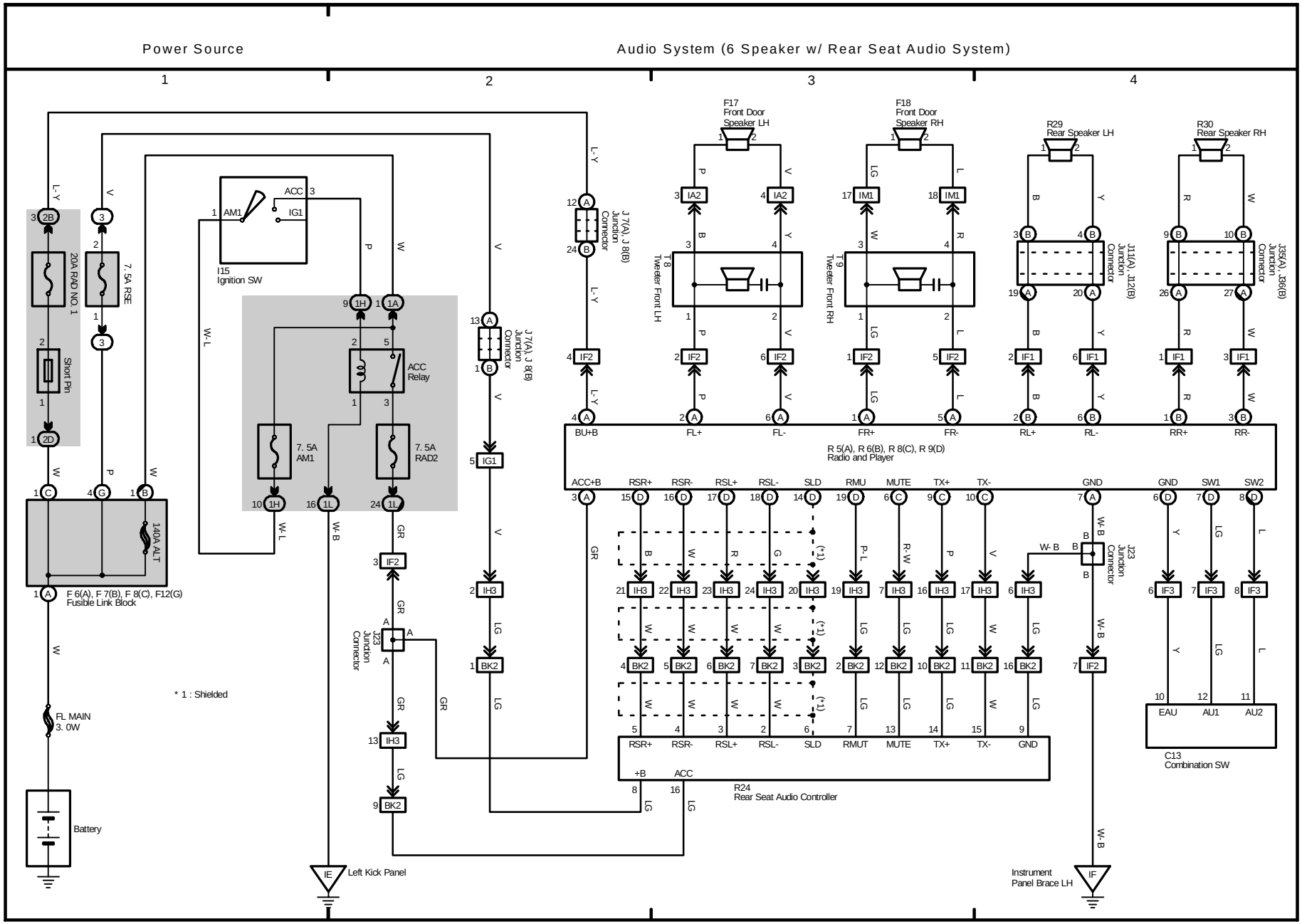



(Cont. next page)
Audio System (6 Speaker w/ Rear Seat Entertainment System)
Power Source
34 SIENNA
J35(A), J36(B) Junction Connector
R30 Rear Speaker RH
J11(A), J12(B) Junction Connector
R29 Rear Speaker LH
T 9 Tweeter Front RH
F18 Front Door Speaker RH
T 8 Tweeter Front LH
F17 Front Door Speaker LH
R 5(A), R 6(B), R 8(C), R 9(D) Radio and Player
J23 Junction Connector
7. 5A RAD2
ACC Relay
7. 5A AM1
I15 Ignition SW
Left Kick Panel
F 6(A), F 7(B), F 8(C), F12(G) Fusible Link Block
140A ALT
FL MAIN 3. 0W
Battery
J 7(A), J 8(B) Junction Connector
20A RAD NO. 1
Short Pin

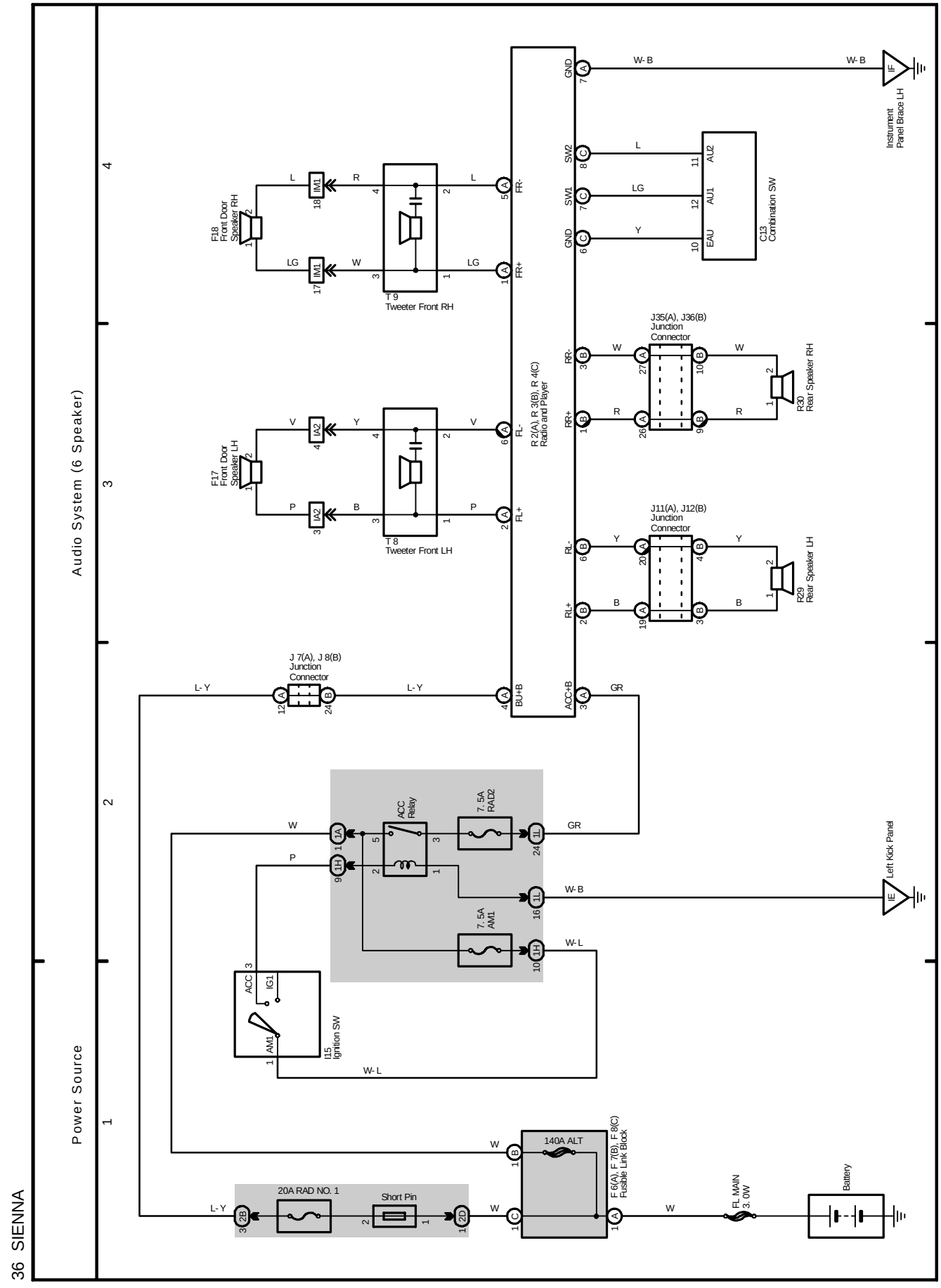
Audio System (6 Speaker w/ Rear Seat Entertainment System)



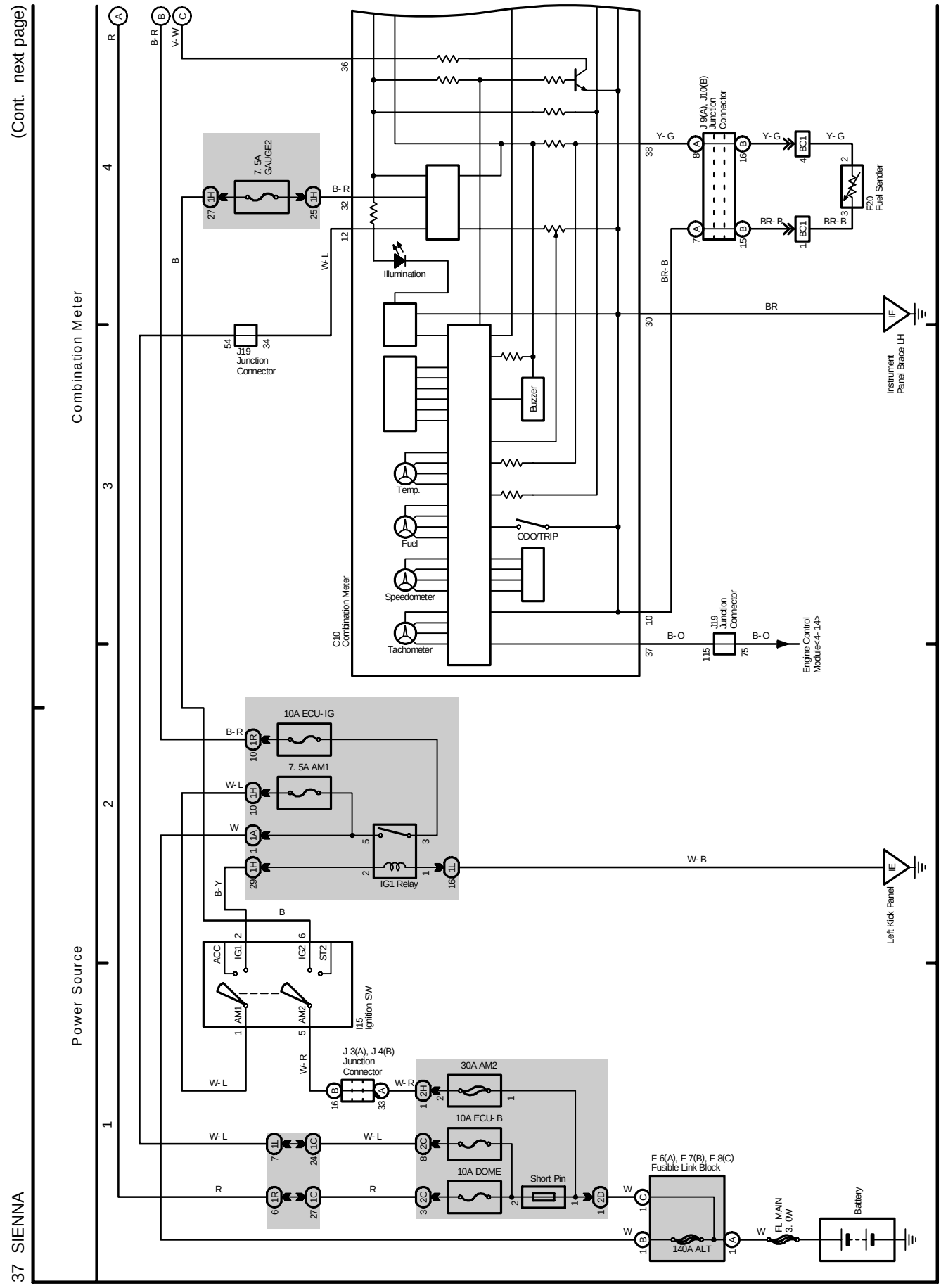

34 SIENNA (Cont' d)
Audio System (6 Speaker w/ Rear Seat Entertainment System)
9
10
11
12
V10
Video Terminal
SLD
SGND
NTSC
SGND
AUXR
AUXL
CE
(Shielded)
IE1
IH2
BK1
BR
Y
P
L
LG
W-B
GR
W
SG6
SGN5
NTS4
SG7
AUXR
AUXL
GAUX
R26(A), R27(B), R28(C)
Rear Seat Entertainment ECU
SLD1
HPR-
HPR+
HPL-
HPL+
GND1
SG4
AR-
AR+
AL-
AL+
GND
SLD
R-
R+
L-
L+
R25
Real Seat Entertainment Display
7.5A
RSE
J 7(A), J 8(B)
Junction
Connector
IG1
IH3
+B1
V
Y


Power Source
Audio System (6 Speaker w/ Rear Seat Audio System)
1
2
3
4
F17
Front Door
Speaker LH
F18
Front Door
Speaker RH
R29
Rear Speaker LH
R30
Rear Speaker RH
T8
Tweeter Front LH
T9
Tweeter Front RH
J7(A), J 8(B)
Junction
Connector
J11(A), J12(B)
Junction
Connector
J35(A), J36(B)
Junction
Connector
J23
Junction
Connector
20A RAD NO. 1
7. 5A RSE
Short Pin
140A ALT
F 6(A), F 7(B), F 8(C), F12(G)
Fusible Link Block
FL MAIN
3. 0W
Battery
I15
Ignition SW
ACC
Relay
7. 5A
AM1
7. 5A
RAD2
* 1 : Shielded
BU+B
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
R 5(A), R 6(B), R 8(C), R 9(D)
Radio and Player
ACC+B
RSR+
RSR-
RSL+
RSL-
SLD
RMU
MUTE
TX+
TX-
GND
SW1
SW2
EAU
AU1
AU2
C13
Combination SW
R24
Rear Seat Audio Controller
+B
ACC
Left Kick Panel
Instrument
Panel Brace LH

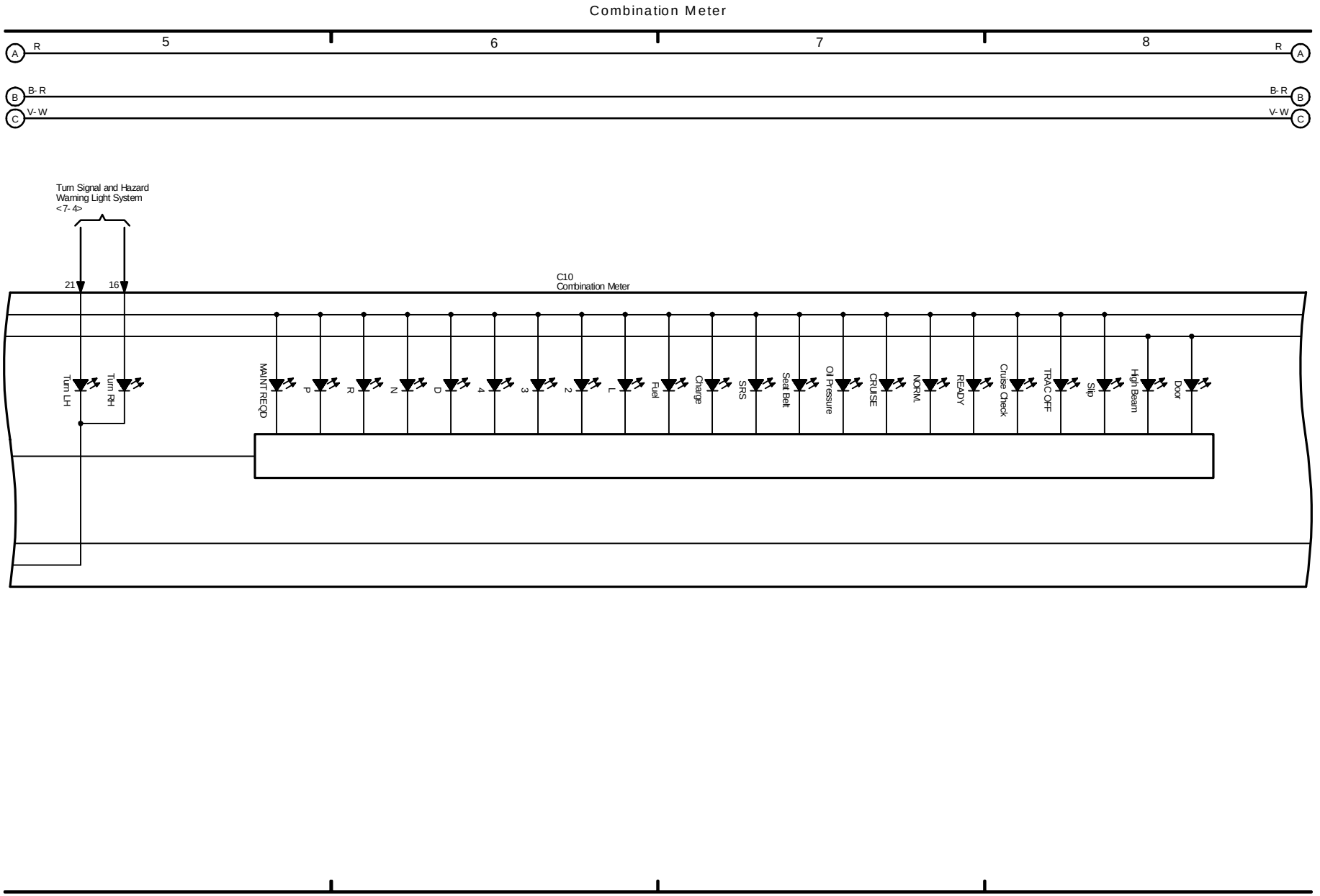
M OVERALL ELECTRICAL WIRING DIAGRAM



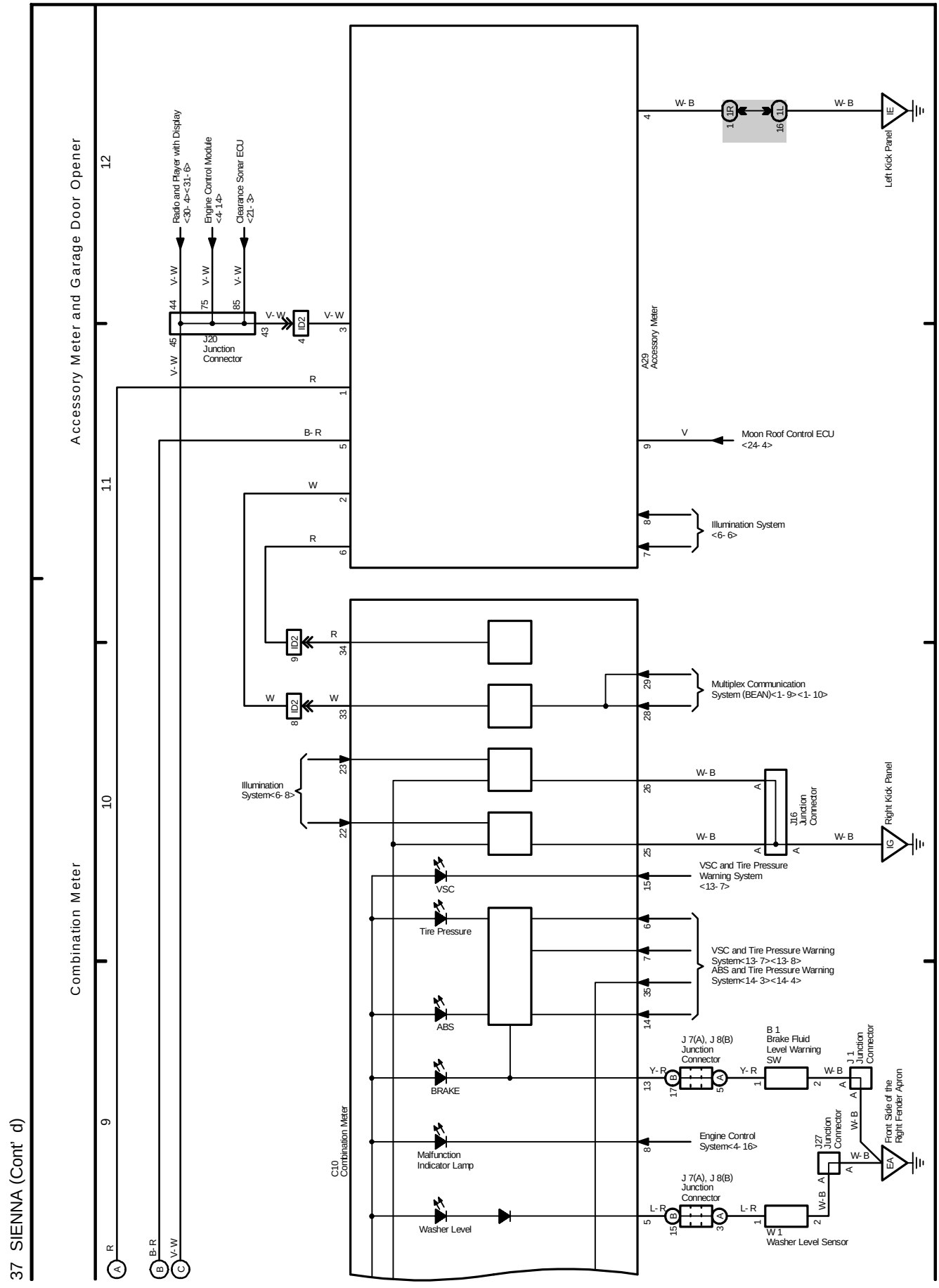
M OVERALL ELECTRICAL WIRING DIAGRAM



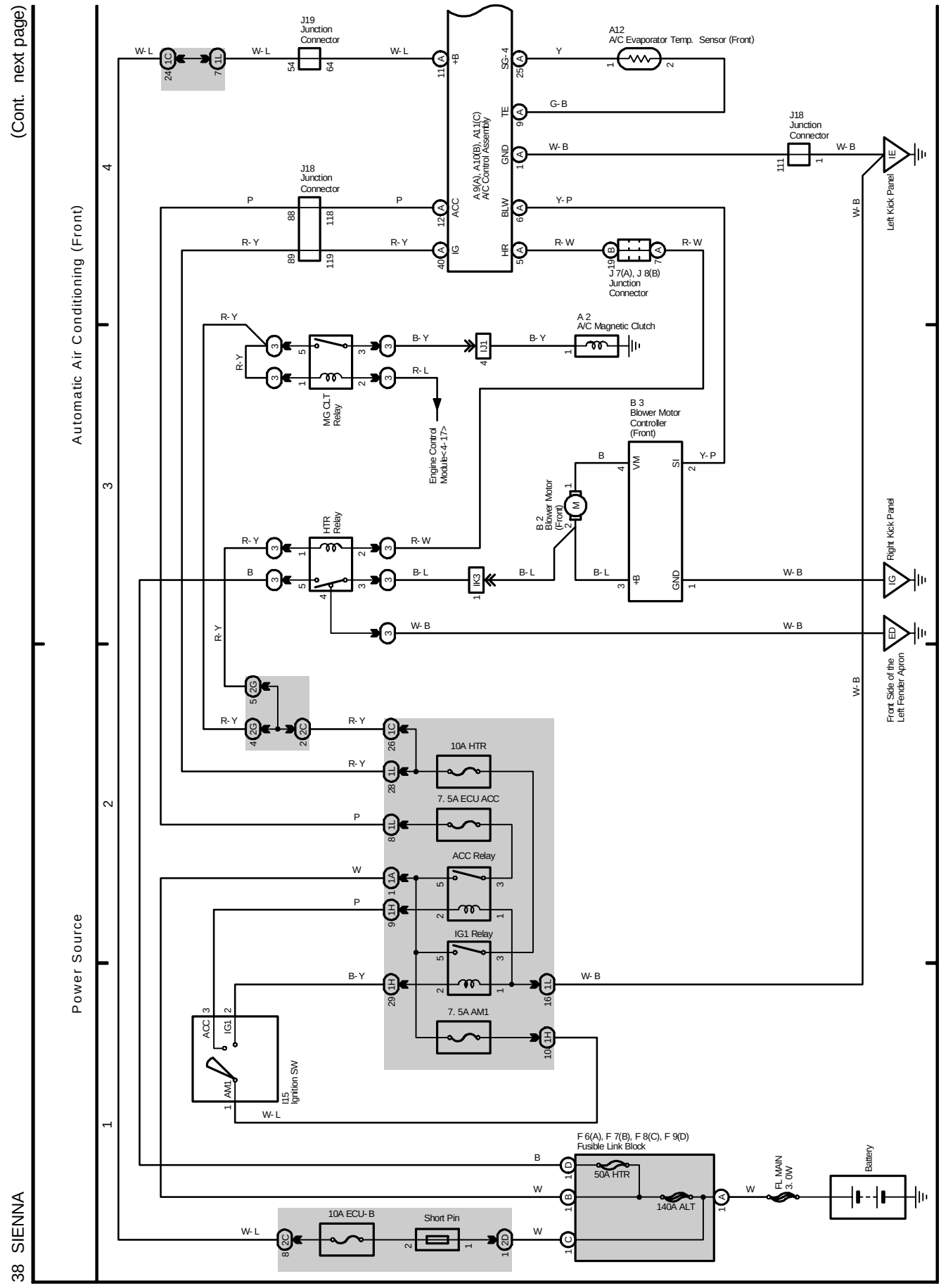
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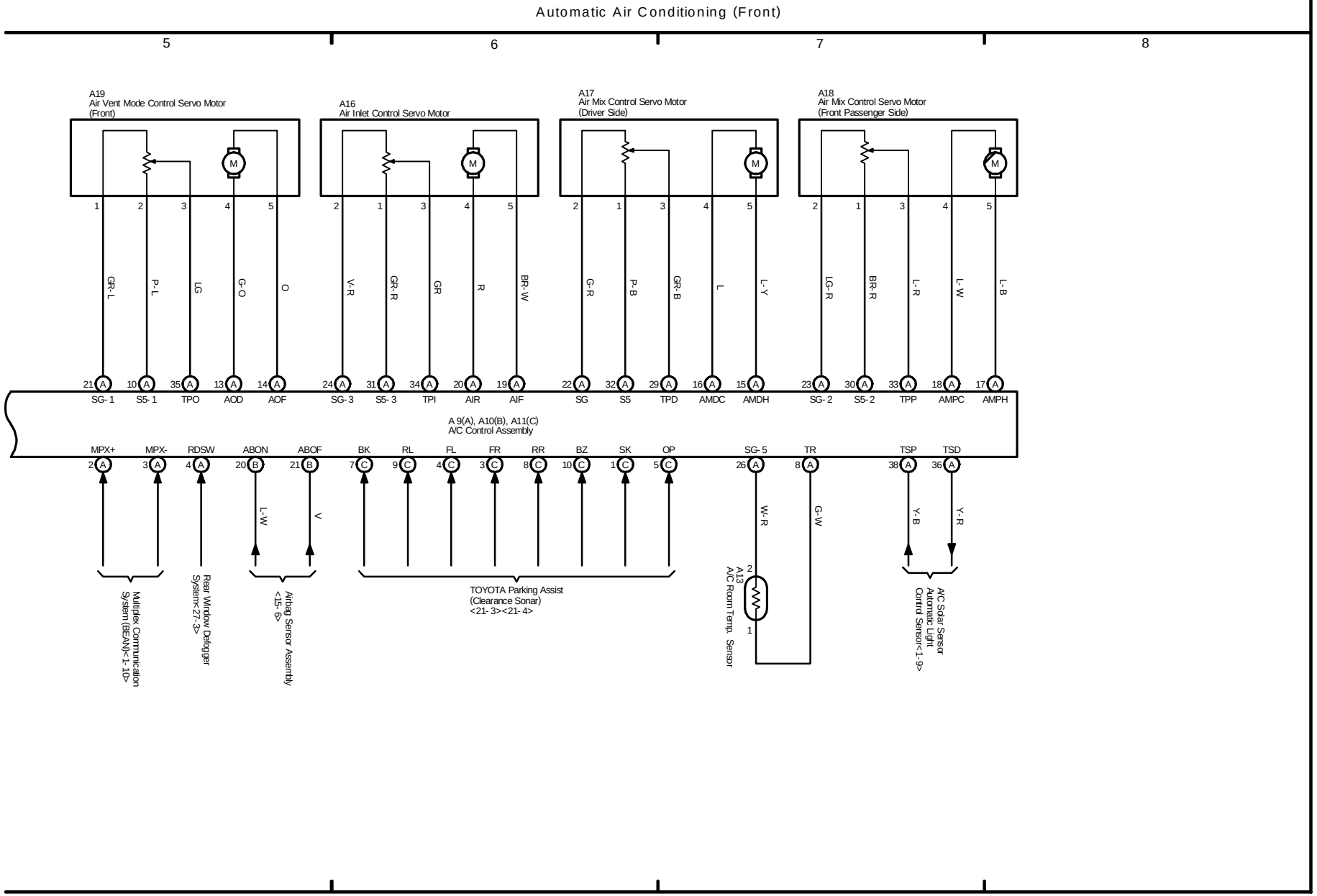


M OVERALL ELECTRICAL WIRING DIAGRAM

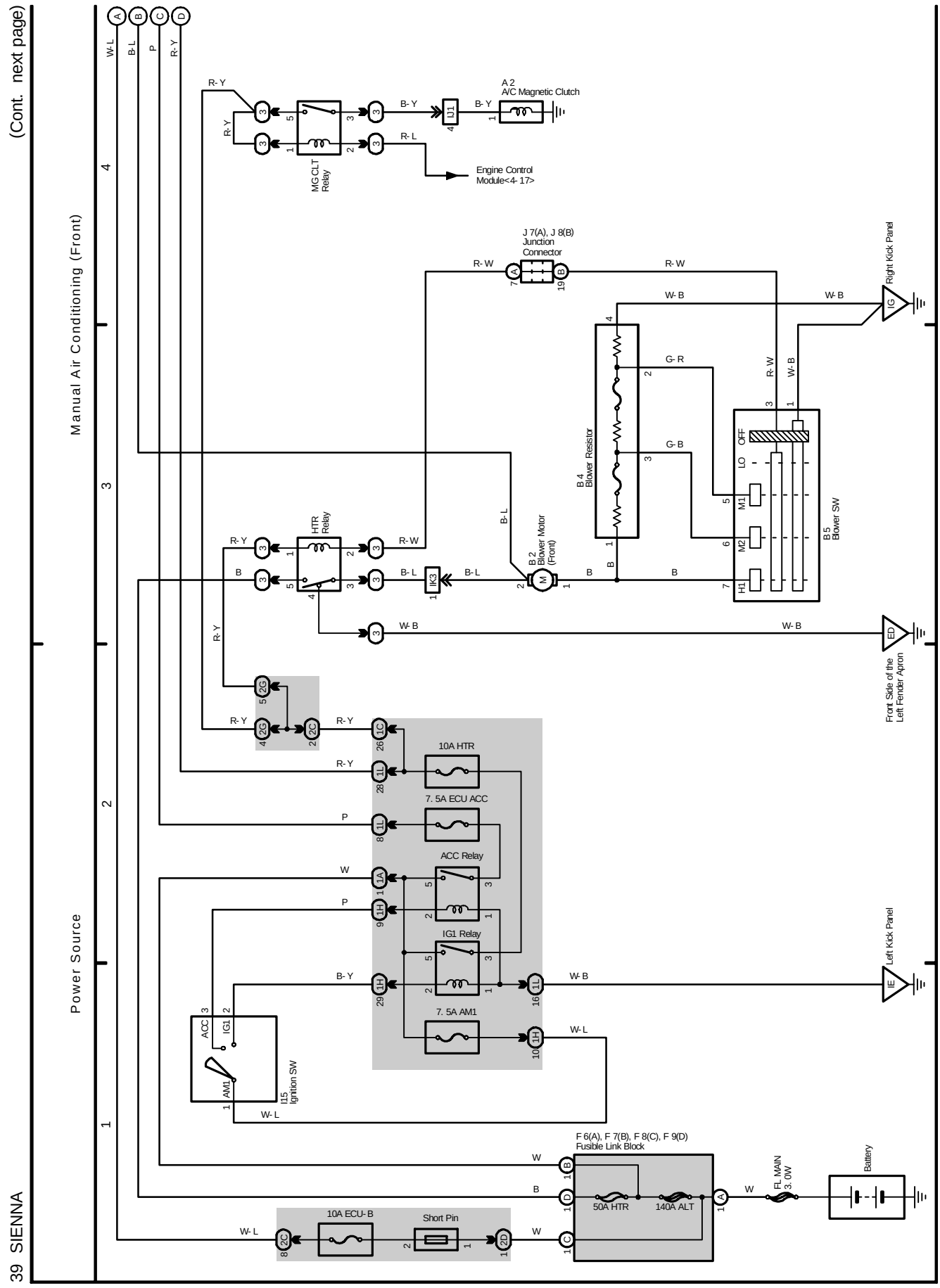


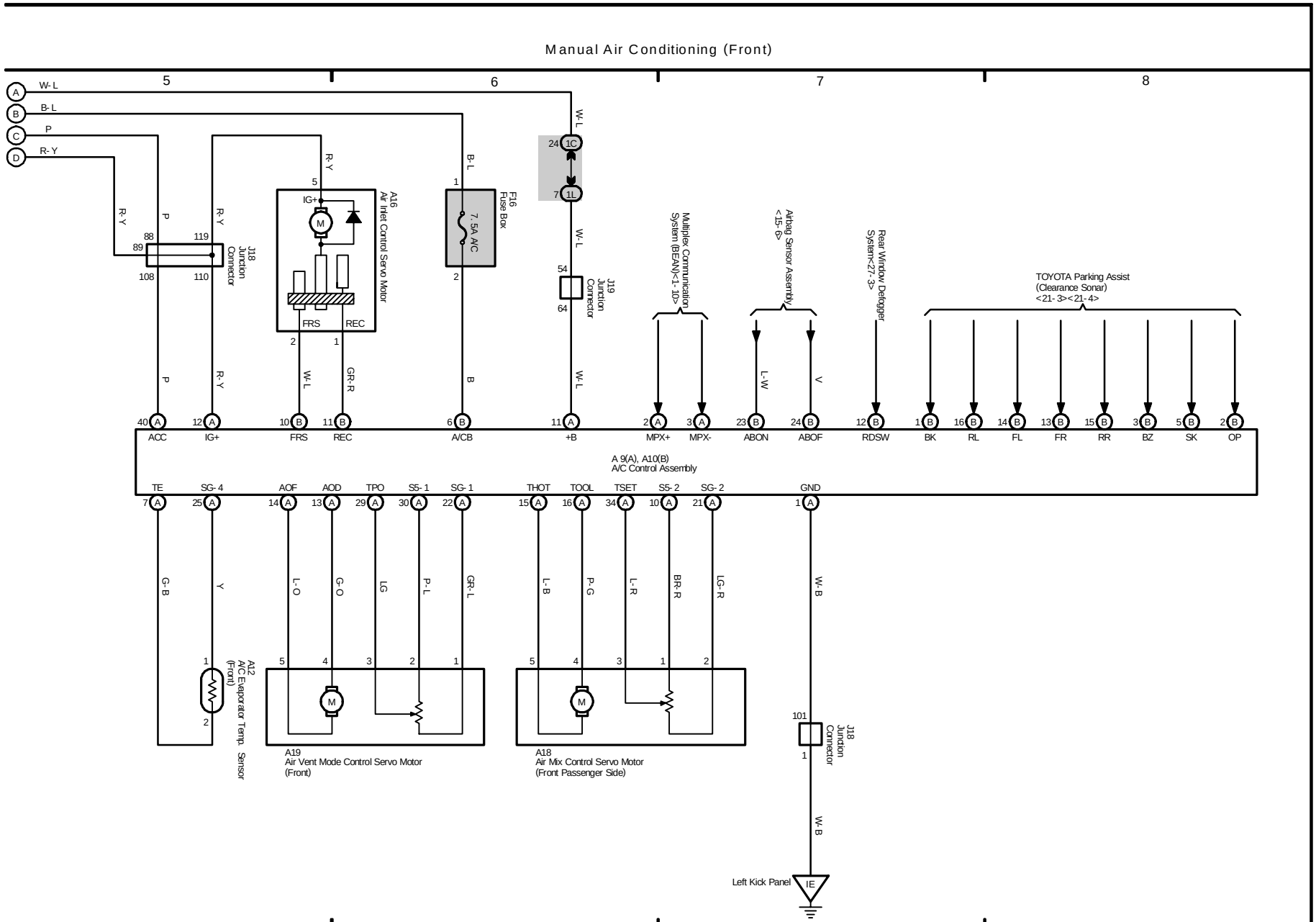
M OVERALL ELECTRICAL WIRING DIAGRAM



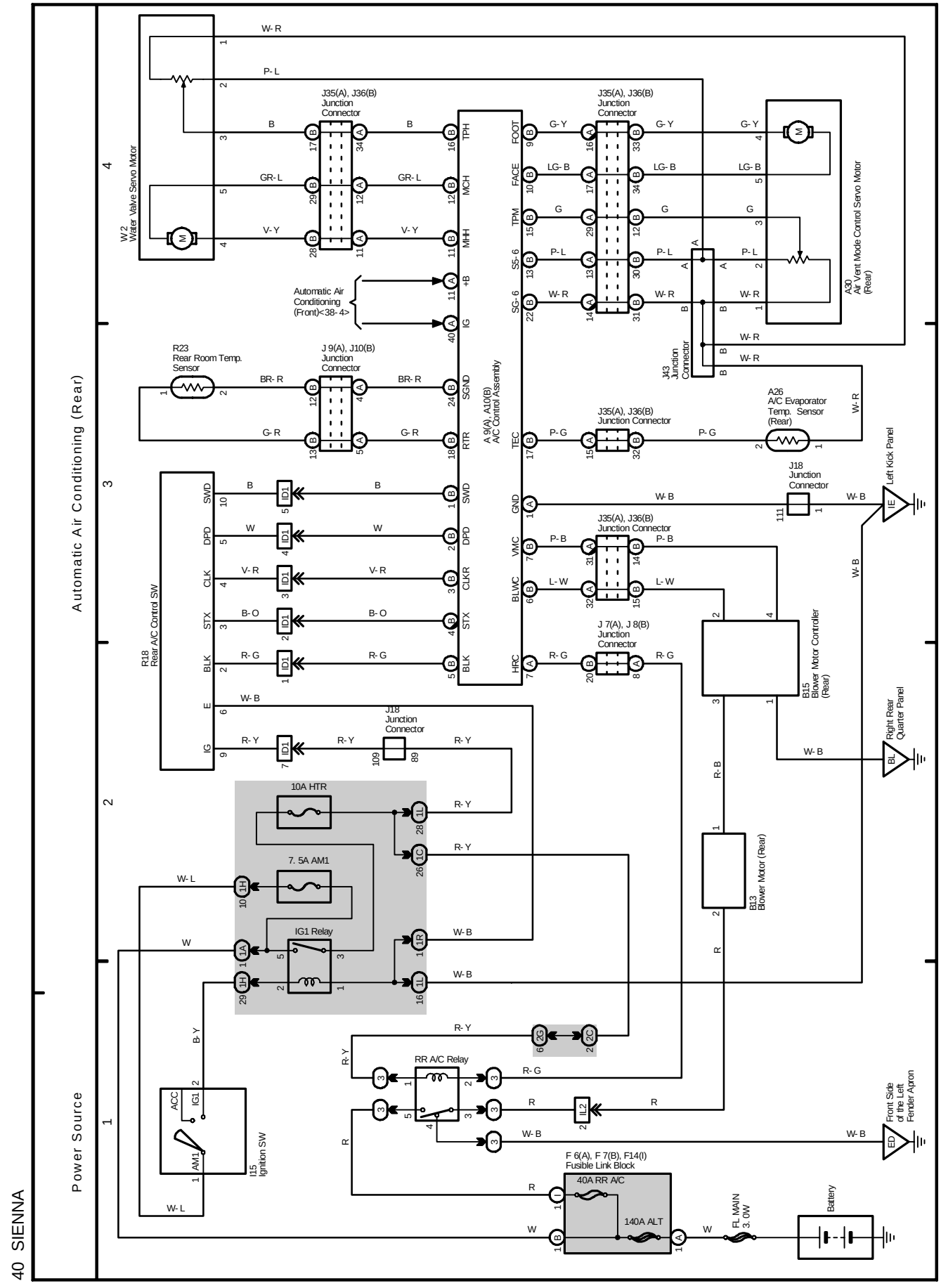

Automatic Air Conditioning (Front)
5
6
7
8
A19
Air Vent Mode Control Servo Motor
(Front)
A16
Air Inlet Control Servo Motor
A17
Air Mix Control Servo Motor
(Driver Side)
A18
Air Mix Control Servo Motor
(Front Passenger Side)
GR-L
P-L
LG
G-O
O
V-R
GR-R
GR
R
BR-W
G-R
P-B
GR-B
L
L-Y
LG-R
BR-R
L-R
L-W
L-B
SG-1
S5-1
TPO
AOD
AOF
SG-3
S5-3
TPI
AIR
AIF
SG
S5
TPD
AMDC
AMDH
SG-2
S5-2
TPP
AMPC
AMPH
A 9(A), A10(B), A11(C)
A/C Control Assembly
MPX+
MPX-
RDSW
ABON
ABOF
BK
RL
FL
FR
RR
BZ
SK
OP
SG-5
TR
TSP
TSD
L-W
V
W-R
G-W
Y-B
Y-R
Multiplex Communication
System (BEAN)<1-10>
Rear Window Defogger
System<27-3>
Airbag Sensor Assembly
<15-6>
TOYOTA Parking Assist
(Clearance Sonar)
<21-3><21-4>
A13
A/C Room Temp. Sensor
A/C Solar Sensor
Automatic Light
Control Sensor<1-9>

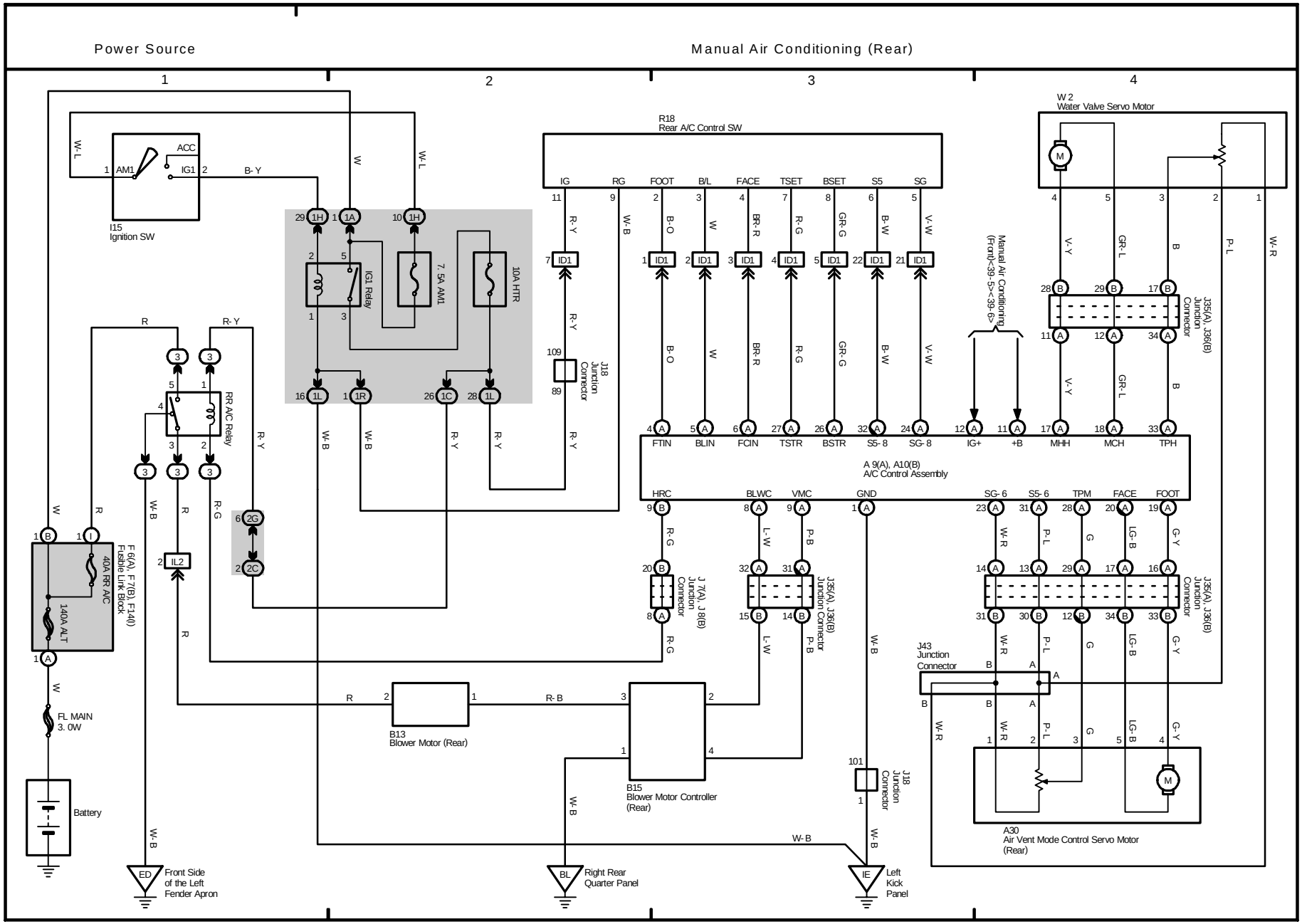
M OVERALL ELECTRICAL WIRING DIAGRAM

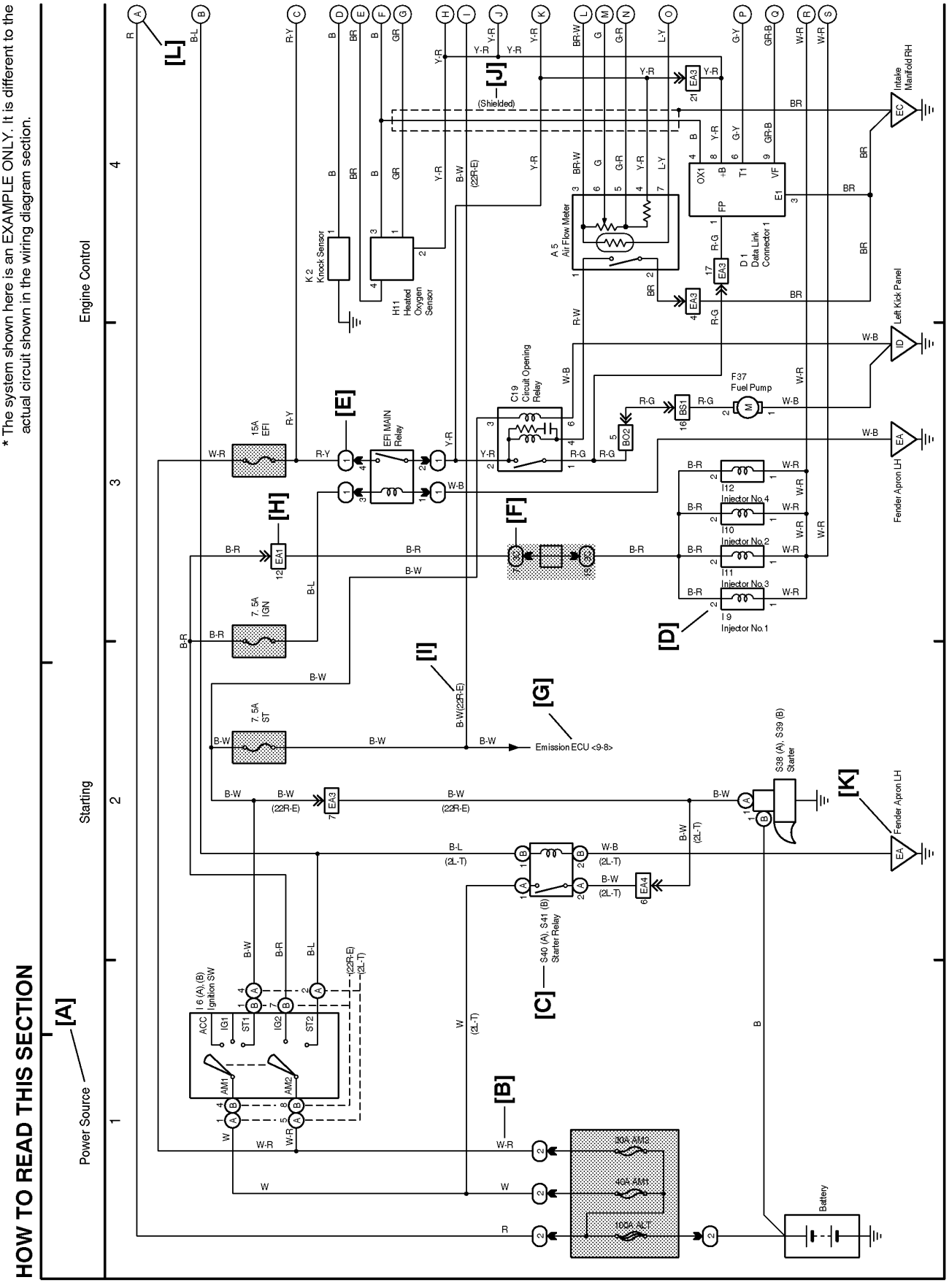



Manual Air Conditioning (Front)
5
6
7
8
W-L
B-L
P
R-Y
J18 Junction Connector
A16 Air Inlet Control Servo Motor
IG+
FRS
REC
F16 Fuse Box
7.5A A/C
J19 Junction Connector
Multiplex Communication System (BEAN)<1-10>
Airbag Sensor Assembly <15-6>
Rear Window Defogger System<27-3>
TOYOTA Parking Assist (Clearance Sonar) <21-3><21-4>
ACC
IG+
FRS
REC
A/CB
+B
MPX+
MPX-
ABON
ABOF
RDSW
BK
RL
FL
FR
RR
BZ
SK
OP
A 9(A), A10(B)
A/C Control Assembly
TE
SG-4
AOF
AOD
TPO
S5-1
SG-1
THOT
TOOL
TSET
S5-2
SG-2
GND
A12 A/C Evaporator Temp. Sensor (Front)
A19 Air Vent Mode Control Servo Motor (Front)
A18 Air Mix Control Servo Motor (Front Passenger Side)
J18 Junction Connector
Left Kick Panel
IE

M OVERALL ELECTRICAL WIRING DIAGRAM




Power Source
Manual Air Conditioning (Rear)
1
2
3
4
I15
Ignition SW
ACC
AM1
IG1
B-Y
W-L
W
IG1 Relay
7.5A AM1
10A HTR
RR A/C Relay
R
R-Y
W-B
R-G
F6(A), F7(B), FJ4(I)
Fusible Link Block
40A RR A/C
140A ALT
FL MAIN
3.0W
Battery
ED
Front Side
of the Left
Fender Apron
B13
Blower Motor (Rear)
B15
Blower Motor Controller
(Rear)
BL
Right Rear
Quarter Panel
IE
Left
Kick
Panel
J18
Junction
Connector
R18
Rear A/C Control SW
IG
RG
FOOT
B/L
FACE
TSET
BSET
S5
SG
B-O
W
BR-R
R-G
GR-G
B-W
V-W
Manual Air Conditioning
(Front)<39-5><39-6>
FTIN
BLIN
FCIN
TSTR
BSTR
S5-8
SG-8
IG+
+B
MHH
MCH
TPH
A 9(A), A10(B)
A/C Control Assembly
HRC
BLWC
VMC
GND
SG-6
S5-6
TPM
FACE
FOOT
L-W
P-B
W-R
P-L
G
LG-B
G-Y
J35(A), J36(B)
Junction Connector
J7(A), J8(B)
Junction Connector
J43
Junction
Connector
W2
Water Valve Servo Motor
A30
Air Vent Mode Control Servo Motor
(Rear)


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the wiring diagram section.
HOW TO READ THIS SECTION
Power Source
Starting
Engine Control
[A]
[B]
[C]
[D]
[E]
[F]
[G]
[H]
[I]
[J]
[K]
[L]
(Shielded)
K 2 Knock Sensor
H11 Heated Oxygen Sensor
A 5 Air Flow Meter
D 1 Data Link Connector 1
C19 Circuit Opening Relay
F37 Fuel Pump
EFI MAIN Relay
15A EFI
7. 5A IGN
7. 5A ST
I 6 (A), (B) Ignition SW
S40 (A), S41 (B) Starter Relay
S38 (A), S39 (B) Starter
I12 Injector No.4
I10 Injector No.2
I11 Injector No.3
I 9 Injector No.1
Intake Manifold RH
Left Kick Panel
Fender Apron LH
Emission ECU <9-8>
Battery
80A AM2
40A AM1
100A ALT

[A] : System Title

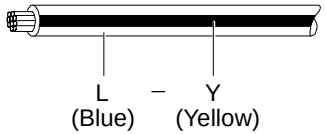
[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B	= Black	W	= White	BR	= Brown
L	= Blue	V	= Violet	SB	= Sky Blue
R	= Red	G	= Green	LG	= Light Green
P	= Pink	Y	= Yellow	GR	= Gray
O	= Orange				

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

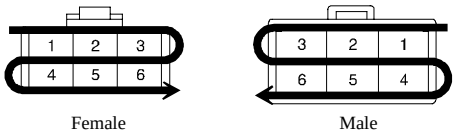
Example: L - Y



[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

[D] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right / Numbered in order from upper right to lower left



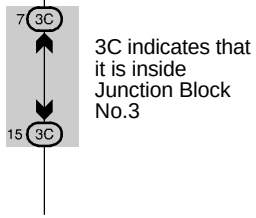
The numbering system for the overall wiring diagram is the same as above

[E] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

Example : (1) Indicates Relay Block No.1

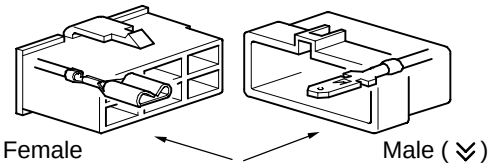
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[G] : Indicates related system.

[H] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (»). Outside numerals are pin numbers.



[I] : ( ) is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[J] : Indicates a shielded cable.



[K] : Indicates and located on ground point.

[L] : The same code occuring on the next page indicates that the wire harness is continuous.

SYSTEM INDEX

SYSTEMS	LOCATION
ABS	14-2
Accessory Meter	37-11
Audio System (10 Speaker w/ Navigation and Rear Seat Audio System)	31-2
Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System)	30-2
Audio System (10 Speaker w/ Rear Seat Audio System)	33-2
Audio System (10 Speaker w/ Rear Seat Entertainment System)	32-2
Audio System (6 Speaker)	36-2
Audio System (6 Speaker w/ Rear Seat Audio System)	35-2
Audio System (6 Speaker w/ Rear Seat Entertainment System)	34-2
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Automatic Air Conditioning (Rear)	40-2
Automatic Glare-Resistant EC Mirror with Compass	24-2
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Charging	2-4
Cigarette Lighter	25-4
Combination Meter	37-3
Cruise Control	12-3
Dynamic Laser Cruise Control	11-3
Electronically Controlled Transmission and A/T Indicator	10-3
Engine Control	4-5
Engine Immobilizer System	4-19
Front Window Deicer	27-2
Front Wiper and Washer	28-2
Garage Door Opener	37-11
Headlight Beam Level Control	22-3
Horn	22-2
Ignition	3-2
Illumination	6-2
Manual Air Conditioning (Front)	39-3
Manual Air Conditioning (Rear)	41-2
Mirror Heater	27-4
Moon Roof	24-4
Multiplex Communication System (BEAN)	1-2
∗ Automatic Light Control	
∗ Back Door Opener (w/o Power Back Door)	
∗ Door Lock Control	
∗ Fog Light	
∗ Headlight	
∗ Interior Light	
∗ Key Reminder	
∗ Light Auto Turn Off System	
∗ Seat Belt Warning	
∗ Theft Deterrent	
∗ Wireless Door Lock Control	
Multiplex Communication System (CAN)	13-9
Navigation System (w/ Rear Seat Audio System)	31-2
Navigation System (w/ Rear Seat Entertainment System)	30-2
Power Back Door	19-2
Power Outlet (115V)	26-2
Power Outlet (12V)	26-4
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Power Slide Door	18-2
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Rear Wiper and Washer	29-2
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Seat Heater	23-2
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SRS	15-2
Starting	2-3
Stop Light	8-2
Taillight	5-2
Tire Pressure Warning System (w/ VSC)	13-3
Tire Pressure Warning System (w/o VSC)	14-2
TOYOTA Parking Assist (Clearance Sonar)	21-2
TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Audio System)	31-2
TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Entertainment System)	30-2
Turn Signal and Hazard Warning Light	7-2
VSC	13-3

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070
A 2	A/C Magnetic Clutch	90980-11271
A 3	ABS Speed Sensor Front LH	90980-11002
A 4	ABS Speed Sensor Front RH	
A 5	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980-11178
A 6	Air Fuel Ratio Sensor (Bank 2 Sensor 1)	
A 7	Airbag Sensor Front LH	90980-11856
A 8	Airbag Sensor Front RH	
A 9	A/C Control Assembly	90980-12169
A10	A/C Control Assembly	90980-12200
A11	A/C Control Assembly	90980-11923
A12	A/C Evaporator Temp. Sensor (Front)	90980-11918
A13	A/C Room Temp. Sensor	
A14	A/T Shift Lever Illumination	90980-12063
A15	Accel Position Sensor	90980-11858
A16	Air Inlet Control Servo Motor	90980-11909
A17	Air Mix Control Servo Motor (Driver Side)	
A18	Air Mix Control Servo Motor (Front Passenger Side)	
A19	Air Vent Mode Control Servo Motor (Front)	
A20	Airbag Sensor Assembly (w/ Side Airbag)	82824-50160
	Airbag Sensor Assembly (w/o Side Airbag)	90980-11869
A21	Airbag Sensor Assembly	90980-11872
A22	Airbag Sensor Assembly (w/ Side Airbag)	82824-50150
	Airbag Sensor Assembly (w/o Side Airbag)	90980-11867
A23	Airbag Squib (Front Passenger Airbag Assembly)	90980-12160
A24	Airbag Squib (Steering Wheel Pad)	
A25	Automatic Light Control Sensor	90980-12056
A26	A/C Evaporator Temp. Sensor (Rear)	90980-11918
A27	ABS Speed Sensor Rear LH	90980-10905
A28	ABS Speed Sensor Rear RH	
A29	Accessory Meter	90980-11923
A30	Air Vent Mode Control Servo Motor (Rear)	90980-11909
B 1	Brake Fluid Level Warning SW	90980-11070
B 2	Blower Motor (Front)	90980-10903
B 3	Blower Motor Controller (Front)	90980-11676
B 4	Blower Resistor	90980-11136
B 5	Blower SW	90980-11686
B 6	Body ECU	90980-12150
B 7	Body ECU	90980-12330
B 8	Body ECU	90980-12328
B 9	Body ECU	90980-12329
B10	Back Door Lock Assembly	90980-11011
B11	Back Door Lock Assembly	
B12	Back Door Opener SW	90980-11967
B13	Blower Motor (Rear)	90980-10916

Code	Part Name	Part Number
B15	Blower Motor Controller (Rear)	90980-11136
B17	Buckle SW RH	90980-11019
B18	Buckle SW LH (w/ Power Seat)	90980-12381
	Buckle SW LH (w/o Power Seat)	90980-10942
	Seat Position Sensor (w/ Power Seat)	90980-12381
	Seat Position Sensor (w/o Power Seat)	90980-10942
C 1	Camshaft Timing Oil Control Valve LH	90980-10947
C 2	Camshaft Timing Oil Control Valve RH	
C 3	Cooling Fan ECU	90980-12058
C 4	Counter Gear Speed Sensor	90980-11156
C 5	Crankshaft Position Sensor	90980-10947
C 6	Center Speaker	90980-11013
C 7	Cigarette Lighter	90980-10760
C 8	Clearance Sonar Buzzer	90980-10825
C 9	Clearance Sonar ECU	90980-12200
C10	Combination Meter	90980-12169
C11	Combination SW	90980-11672
C12	Combination SW	90980-11594
C13	Combination SW	90980-12222
C14	Curtain Shield Airbag Squib Front LH	90980-12219
C15	Curtain Shield Airbag Squib Front RH	
C16	Curtain Shield Airbag Squib Rear LH	
C17	Curtain Shield Airbag Squib Rear RH	
D 1	Data Link Connector 3	90980-11665
D 2	Distance Control ECU	90980-12203
D 3	Dome Cut Relay	82660-20340
D 4	Door Lock Control Receiver	90980-11909
D 5	Door Courtesy Light Front LH	82824-12260
D 6	Door Courtesy Light Front RH	
D 7	Door Courtesy SW Front LH	82824-52010
D 8	Door Courtesy SW Front RH	
D 9	Door Lock Control SW Front LH	90980-12122
	Power Window Master SW	
D10	Door Lock Control SW Front RH	82824-12270
D11	Door Lock Motor Front LH	90980-12226
	Door Unlock Detection SW Front LH	
D12	Door Lock Motor Front RH	
	Door Unlock Detection SW Front RH	
E 1	Electronically Controlled Transmission Solenoid	90980-12326
E 2	Engine Coolant Temp. Sensor	90980-10737
E 3	Engine Hood Courtesy SW	90980-11003
E 4	Engine Control Module	90980-12142
E 5	Engine Control Module	90980-12146
E 6	Engine Control Module	90980-12143
E 7	Engine Control Module	90980-12145

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number
E 8	Engine Control Module	90980-12144
F 1	Front Fog Light LH	90980-11156
F 2	Front Fog Light RH	
F 3	Front Washer Motor	90980-11019
F 4	Front Window Deicer	90980-11002
F 5	Front Wiper Motor	90980-11599
F 6	Fusible Link Block	82675-45020
F 7	Fusible Link Block	82675-45010
F 8	Fusible Link Block	82675-45020
F 9	Fusible Link Block	99141-13005
F10	Fusible Link Block	99141-12006
F11	Fusible Link Block	90980-09877
F12	Fusible Link Block	90980-12332
F13	Fusible Link Block	90980-12333
F14	Fusible Link Block	90980-12331
F15	Front Window Deicer Relay	82660-20340
F16	Fuse Box	82610-20080
F17	Front Door Speaker LH	82824-12260
F18	Front Door Speaker RH	
F19	Fuel Lid Courtesy SW	82824-52020
F20	Fuel Pump	90980-11077
	Fuel Sender	
G 1	Generator	90980-09876
G 2	Generator	90980-11964
G 3	Glass Antenna Amplifier	90980-10871
H 1	Headlight Beam Level Control Actuator LH	90980-11016
H 2	Headlight Beam Level Control Actuator RH	
H 3	Headlight Control ECU LH	90980-11003
H 4	Headlight Control ECU RH	
H 5	Headlight LH (High)	90980-11659
H 6	Headlight LH (Low)	90980-11660
H 7	Headlight RH (High)	90980-11659
H 8	Headlight RH (Low)	90980-11660
H 9	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980-11930
H10	Horn (High)	90980-10619
H11	Horn (Low)	
H12	Hazard SW	90980-10933
	Rear Window Defogger SW	
H13	Headlight Beam Level Control SW	90980-10996
H14	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980-11012
H15	High Mounted Stop Light	90980-11060
I 1	Ignition Coil and Igniter No.1	90980-11885
I 2	Ignition Coil and Igniter No.2	
I 3	Ignition Coil and Igniter No.3	
I 4	Ignition Coil and Igniter No.4	
I 5	Ignition Coil and Igniter No.5	

Code	Part Name	Part Number
I 6	Ignition Coil and Igniter No.6	90980-11885
I 7	Injector No.1	90980-11153
I 8	Injector No.2	
I 9	Injector No.3	
I10	Injector No.4	
I11	Injector No.5	
I12	Injector No.6	
I13	Ignition Key Cylinder Light	90980-11148
I14	Ignition Key Cylinder Light	90980-12092
	Transponder Key Amplifier	
I15	Ignition SW	90980-11778
I16	Interior Light SW	90980-10801
I17	Inverter	Relay
I18	Inner Mirror	90980-11794
I19	Interior Light LH No.1	90980-10908
I20	Interior Light LH No.2	
I21	Interior Light RH No.1	
I22	Interior Light RH No.2	
J 1	Junction Connector	90980-10803
J 2	Junction Connector	
J 3	Junction Connector	90980-12320
J 4	Junction Connector	
J 5	Junction Connector	90980-12315
J 6	Junction Connector	
J 7	Junction Connector	90980-12308
J 8	Junction Connector	
J 9	Junction Connector	90980-12318
J10	Junction Connector	
J11	Junction Connector	90980-12314
J12	Junction Connector	
J13	Junction Connector	90980-12311
J14	Junction Connector	
J15	Junction Connector	90980-10803
J16	Junction Connector	
J17	Junction Connector	90980-11915
J18	Junction Connector	90980-12085
J19	Junction Connector	
J20	Junction Connector	
J21	Junction Connector	90980-11398
J22	Junction Connector	90980-10803
J23	Junction Connector	90980-11542
J24	Junction Connector	
J25	Junction Connector	90980-11661
J26	Junction Connector	
J27	Junction Connector	90980-10803
J28	Junction Connector	

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
J29	Junction Connector	90980-11542
J30	Junction Connector	
J31	Junction Connector	90980-12318
J32	Junction Connector	
J33	Junction Connector	90980-12308
J34	Junction Connector	
J35	Junction Connector	90980-12320
J36	Junction Connector	
J37	Junction Connector	90980-12085
J38	Junction Connector	90980-10799
J39	Junction Connector	90980-10803
J40	Junction Connector	90980-11398
J41	Junction Connector	90980-10830
J42	Junction Connector	90980-11398
J43	Junction Connector	90980-11529
J44	Junction Connector	90980-12374
J45	Junction Connector	
K 1	Keyless Buzzer	90980-11142
K 2	Knock Sensor (Bank 1)	90980-11875
K 3	Knock Sensor (Bank 2)	
K 4	Key Interlock Solenoid	90980-10795
	Unlock Warning SW	
L 1	Laser Sensor	90980-12292
L 2	License Plate Light LH	90980-11148
L 3	License Plate Light RH	
L 4	Luggage Compartment Light	82824-12260
M 1	Mass Air Flow Meter	90980-11317
M 2	Main SW	90980-10933
	Security Indicator Light	
M 3	Mirror Heater LH	90980-11922
	Remote Control Mirror LH	
M 4	Mirror Heater RH	
	Remote Control Mirror RH	
M 5	Moon Roof Control ECU	90980-10997
N 1	Noise Filter	90980-10843
O 1	Oil Pressure SW	90980-11363
O 3	Occupant Classification ECU	90980-12356
O 4	Occupant Classification ECU	90980-12357
O 5	Occupant Classification Sensor Front LH	90980-12353
O 6	Occupant Classification Sensor Front RH	90980-12354
O 7	Occupant Classification Sensor Rear LH	
O 8	Occupant Classification Sensor Rear RH	90980-12353
P 1	Park/Neutral Position SW	90980-12362
P 2	Parking Light LH	90980-11020
	Turn Signal Light LH	

Code	Part Name	Part Number
P 3	Parking Light RH	90980-11020
	Turn Signal Light RH	
P 4	Power Steering Oil Pressure SW	90980-11428
P 5	Pressure SW	90980-10943
P 6	Parking Brake SW	90980-10871
P 7	Power Back Door Main SW	90980-10957
P 8	Power Outlet (Front)	90980-10760
P 9	Power Quarter Window SW	90980-10801
P10	Power Slide Door Main SW	90980-10933
P11	Personal Light	90980-10908
P12	Power Back Door Drive Unit	90980-11527
P13	Power Back Door ECU	90980-12203
P14	Power Back Door ECU	90980-11362
P15	Power Back Door Touch Sensor LH	90980-11967
P16	Power Back Door Touch Sensor RH	
P17	Power Back Door Warning Buzzer	90980-11142
P18	Power Outlet (Rear)	90980-10760
P19	Power Outlet No.1 (115V)	90980-10601
P20	Power Outlet No.2 (115V)	
P21	Power Slide Door Control Motor and Clutch LH	90980-11537
P22	Power Slide Door Control Motor and Clutch RH	
P23	Power Slide Door Control SW LH	90980-11909
P24	Power Slide Door Control SW RH	
P25	Power Slide Door ECU LH	90980-12203
P26	Power Slide Door ECU LH	90980-11362
P27	Power Slide Door ECU RH	90980-12203
P28	Power Slide Door ECU RH	90980-11362
P29	Power Slide Door Lock Assembly LH	90980-10799
P30	Power Slide Door Lock Assembly RH	
P31	Power Slide Door Touch Sensor LH	90980-11917
P32	Power Slide Door Touch Sensor RH	
P33	Power Slide Door Warning Buzzer LH	90980-11142
P34	Power Slide Door Warning Buzzer RH	
P35	Power Vent Window Motor LH	82824-52020
P36	Power Vent Window Motor RH	
P37	Power Window Control SW Front RH	82824-12230
P38	Power Window Control SW Rear LH	90980-10831
P39	Power Window Control SW Rear RH	90980-10631
P40	Power Window Motor Front LH	82824-12270
P41	Power Window Motor Front RH	
P42	Power Window Motor Rear LH	90980-11900
P43	Power Window Motor Rear RH	

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number
P44	Pretensioner LH	90980-12253
P45	Pretensioner RH	
P46	Power Seat Control SW (Driver's Seat)	90980-10997
P47	Power Seat Motor (Driver's Seat Reclining Control)	90980-10825
P49	Power Seat Control SW (Driver's Seat Lumbar Support Control)	90980-10789
P50	Power Seat Control SW (Front Passenger's Seat)	90980-10997
P51	Power Seat Motor (Driver's Seat Front Vertical Control)	90980-10825
P52	Power Seat Motor (Driver's Seat Lifter Control)	
P53	Power Seat Motor (Driver's Seat Lumbar Support Control)	
P54	Power Seat Motor (Driver's Seat Slide Control)	
P55	Power Seat Motor (Front Passenger's Seat Reclining Control)	
P56	Power Seat Motor (Front Passenger's Seat Slide Control)	
R 1	Rear Washer Motor	90980-11019
R 2	Radio and Player	90980-10997
R 3	Radio and Player	90980-10996
R 4	Radio and Player	90980-12259
R 5	Radio and Player	90980-10997
R 6	Radio and Player	90980-10996
R 7	Radio and Player	90980-12038
R 8	Radio and Player	90980-12183
R 9	Radio and Player	90980-12259
R10	Radio and Player with Display	90980-12211
R12	Radio and Player with Display	90980-11909
R13	Radio and Player with Display	90980-12259
R14	Radio and Player with Display	90980-12183
R15	Radio and Player with Display	90980-12038
R16	Radio and Player with Display	90980-12209
R17	Remote Control Mirror SW	90980-11657
R18	Rear A/C Control SW (Automatic A/C)	90980-11923
	Rear A/C Control SW (Manual A/C)	90980-11911
R19	Rear Combination Light LH	90980-11013
R20	Rear Combination Light LH	90980-10795
R21	Rear Combination Light RH	90980-11013
R22	Rear Combination Light RH	90980-10795
R23	Rear Room Temp. Sensor	90980-11918
R24	Rear Seat Audio Controller	90980-12156
R25	Rear Seat Entertainment Display	90980-12268
R26	Rear Seat Entertainment ECU	
R27	Rear Seat Entertainment ECU	90980-12266

Code	Part Name	Part Number
R28	Rear Seat Entertainment ECU	90980-12267
R29	Rear Speaker LH	82824-12260
R30	Rear Speaker RH	
R31	Rear Window Defogger	90980-10914
R32	Rear Window Defogger	90980-10913
R33	Rear Wiper Motor and Relay	90980-10908
S 1	Side Marker Light LH	90980-11156
S 2	Side Marker Light RH	
S 3	Skid Control ECU with Actuator (w/ VSC)	90980-12297
	Skid Control ECU with Actuator (w/o VSC)	90980-12020
S 4	Starter	90980-11400
S 5	Starter	90980-09463
S 6	Seat Heater SW (Driver's Seat)	90980-10957
S 7	Seat Heater SW (Front Passenger's Seat)	90980-10933
S 8	Shift Lock Control ECU	90980-12183
	Transmission Control SW	
S 9	Steering Sensor	82824-45030
S10	Stereo Component Amplifier	90980-10821
S11	Stereo Component Amplifier	90980-12200
S12	Stop Light SW	90980-11118
S13	Satellite SW	90980-12113
S14	Side Airbag Sensor Front LH	90980-12225
S15	Side Airbag Sensor Front RH	
S16	Side Airbag Sensor Rear LH	
S17	Side Airbag Sensor Rear RH	
S18	Side Airbag Squib LH	90980-11864
S19	Side Airbag Squib RH	
S20	Slide Door Attachment Control LH	90980-10797
S21	Slide Door Attachment Control LH	90980-11019
S22	Slide Door Attachment Control LH	90980-11150
S23	Slide Door Attachment Control RH	90980-10797
S24	Slide Door Attachment Control RH	90980-11019
S25	Slide Door Attachment Control RH	90980-11150
S26	Slide Door Courtesy Light LH	90980-11148
S27	Slide Door Courtesy Light RH	
S28	Slide Door Courtesy SW LH	82824-52010
S29	Slide Door Courtesy SW RH	
S30	Seat Heater ECU LH	82824-24040
S31	Seat Heater ECU RH	
T 1	Theft Deterrent Horn	90980-10619
T 2	Throttle Control Motor	90980-11858
	Throttle Position Sensor	
T 3	Turbine Speed Sensor	90980-11156
T 4	Tire Pressure Warning Standardization SW	90980-10906
T 5	TRAC Off SW	90980-10933

L PART NUMBER OF CONNECTORS

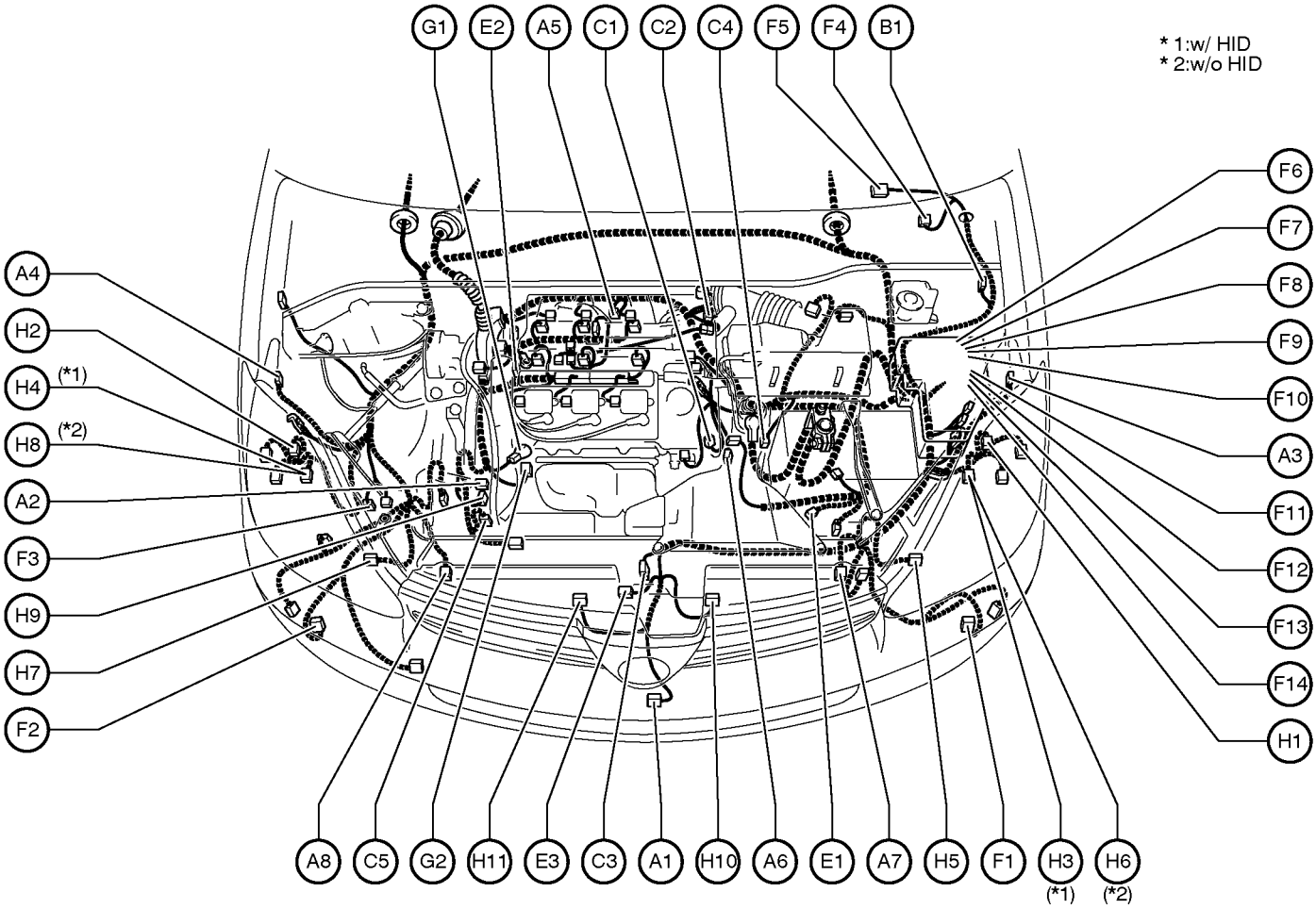
Code	Part Name	Part Number
T 6	Transponder Key Computer	90980-11911
T 7	Turn Signal Flasher	90980-10799
T 8	Tweeter Front LH	90980-11013
T 9	Tweeter Front RH	
T10	Television Camera	90980-12211
T11	Tweeter Rear LH	82824-52030
T12	Tweeter Rear RH	
U 1	Ultrasonic Sensor (Front Left)	90980-11246
U 2	Ultrasonic Sensor (Front Right)	
U 3	Ultrasonic Sensor (Rear Left Center)	
U 4	Ultrasonic Sensor (Rear Left)	
U 5	Ultrasonic Sensor (Rear Right Center)	
U 6	Ultrasonic Sensor (Rear Right)	
V 1	VSV (ACIS)	90980-11149
V 2	VSV (AICV)	90980-11156
V 3	VSV (EVAP)	
V 4	VVT Solenoid LH	90980-11162
V 5	VVT Solenoid RH	
V 6	VSC Warning Buzzer	90980-10906
V 7	Vanity Light LH	90980-11918
V 8	Vanity Light RH	
V 9	Vapor Pressure Sensor	90980-11143
V10	Video Terminal	90980-12221
V11	Voltage Inverter	90980-10799
V12	VSV (Canister Closed Valve)	90980-11859
W 1	Washer Level Sensor	90980-11068
W 2	Water Valve Servo Motor	90980-11909
W 3	Woofer	90980-10795
Y 1	Yaw Rate Sensor	90980-11904

Code	Part Name	Part Number

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number	Code	Part Name	Part Number

Position of Parts in Engine Compartment



A 1 A/C Ambient Temp. Sensor
A 2 A/C Magnetic Clutch
A 3 ABS Speed Sensor Front LH
A 4 ABS Speed Sensor Front RH
A 5 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
A 6 Air Fuel Ratio Sensor (Bank 2 Sensor 1)
A 7 Airbag Sensor Front LH
A 8 Airbag Sensor Front RH

B 1 Brake Fluid Level Warning SW

C 1 Camshaft Timing Oil Control Valve LH
C 2 Camshaft Timing Oil Control Valve RH
C 3 Cooling Fan ECU
C 4 Counter Gear Speed Sensor
C 5 Crankshaft Position Sensor

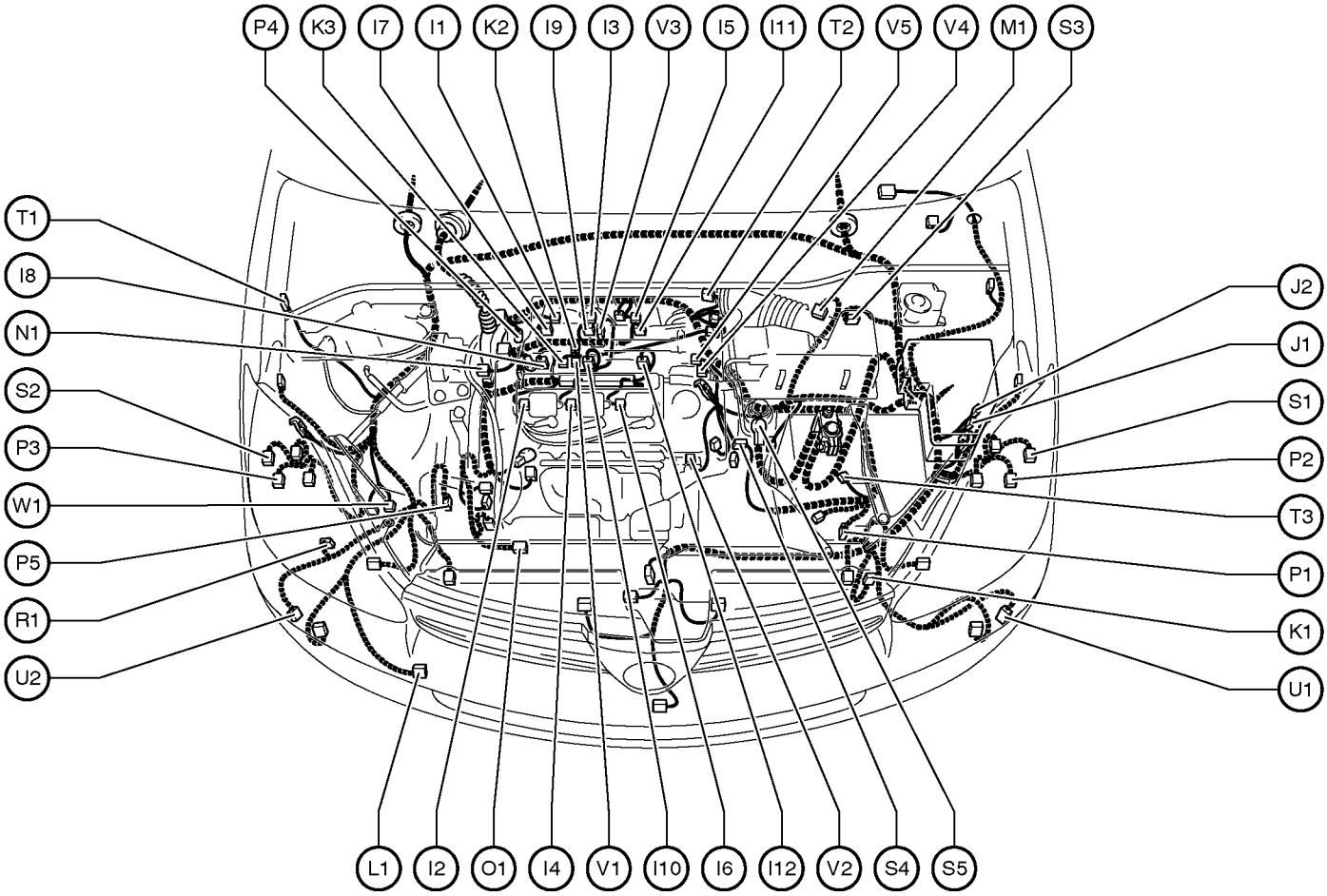
E 1 Electronically Controlled Transmission Solenoid
E 2 Engine Coolant Temp. Sensor
E 3 Engine Hood Courtesy SW

F 1 Front Fog Light LH
F 2 Front Fog Light RH
F 3 Front Washer Motor
F 4 Front Window Deicer
F 5 Front Wiper Motor
F 6 Fusible Link Block
F 7 Fusible Link Block
F 8 Fusible Link Block
F 9 Fusible Link Block
F 10 Fusible Link Block
F 11 Fusible Link Block
F 12 Fusible Link Block
F 13 Fusible Link Block
F 14 Fusible Link Block

G 1 Generator
G 2 Generator

H 1 Headlight Beam Level Control Actuator LH
H 2 Headlight Beam Level Control Actuator RH
H 3 Headlight Control ECU LH
H 4 Headlight Control ECU RH
H 5 Headlight LH (High)
H 6 Headlight LH (Low)
H 7 Headlight RH (High)
H 8 Headlight RH (Low)
H 9 Heated Oxygen Sensor (Bank 2 Sensor 2)
H 10 Horn (High)
H 11 Horn (Low)

Position of Parts in Engine Compartment



I 1 Ignition Coil and Igniter No.1
I 2 Ignition Coil and Igniter No.2
I 3 Ignition Coil and Igniter No.3
I 4 Ignition Coil and Igniter No.4
I 5 Ignition Coil and Igniter No.5
I 6 Ignition Coil and Igniter No.6
I 7 Injector No.1
I 8 Injector No.2
I 9 Injector No.3
I 10 Injector No.4
I 11 Injector No.5
I 12 Injector No.6

J 1 Junction Connector
J 2 Junction Connector

K 1 Keyless Buzzer
K 2 Knock Sensor (Bank 1)
K 3 Knock Sensor (Bank 2)

L 1 Laser Sensor

M 1 Mass Air Flow Meter

N 1 Noise Filter

O 1 Oil Pressure SW

P 1 Park/Neutral Position SW
P 2 Parking Light LH
Turn Signal Light LH
P 3 Parking Light RH
Turn Signal Light RH
P 4 Power Steering Oil Pressure SW
P 5 Pressure SW

R 1 Rear Washer Motor

S 1 Side Marker Light LH
S 2 Side Marker Light RH
S 3 Skid Control ECU with Actuator
S 4 Starter
S 5 Starter

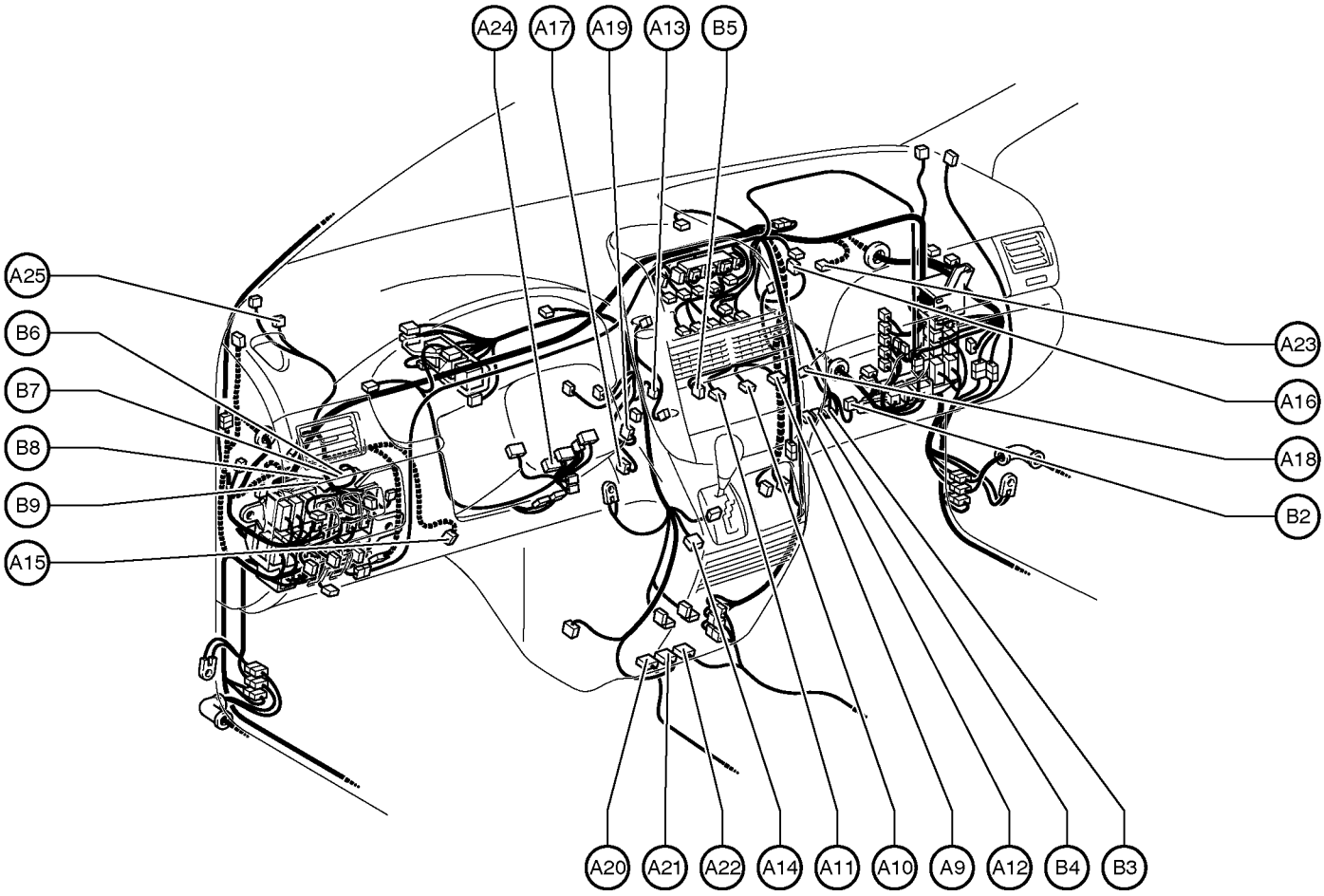
T 1 Theft Deterrent Horn
T 2 Throttle Control Motor
Throttle Position Sensor
T 3 Turbine Speed Sensor

U 1 Ultrasonic Sensor (Front Left)
U 2 Ultrasonic Sensor (Front Right)

V 1 VSV (ACIS)
V 2 VSV (AICV)
V 3 VSV (EVAP)
V 4 VVT Solenoid LH
V 5 VVT Solenoid RH

W 1 Washer Level Sensor

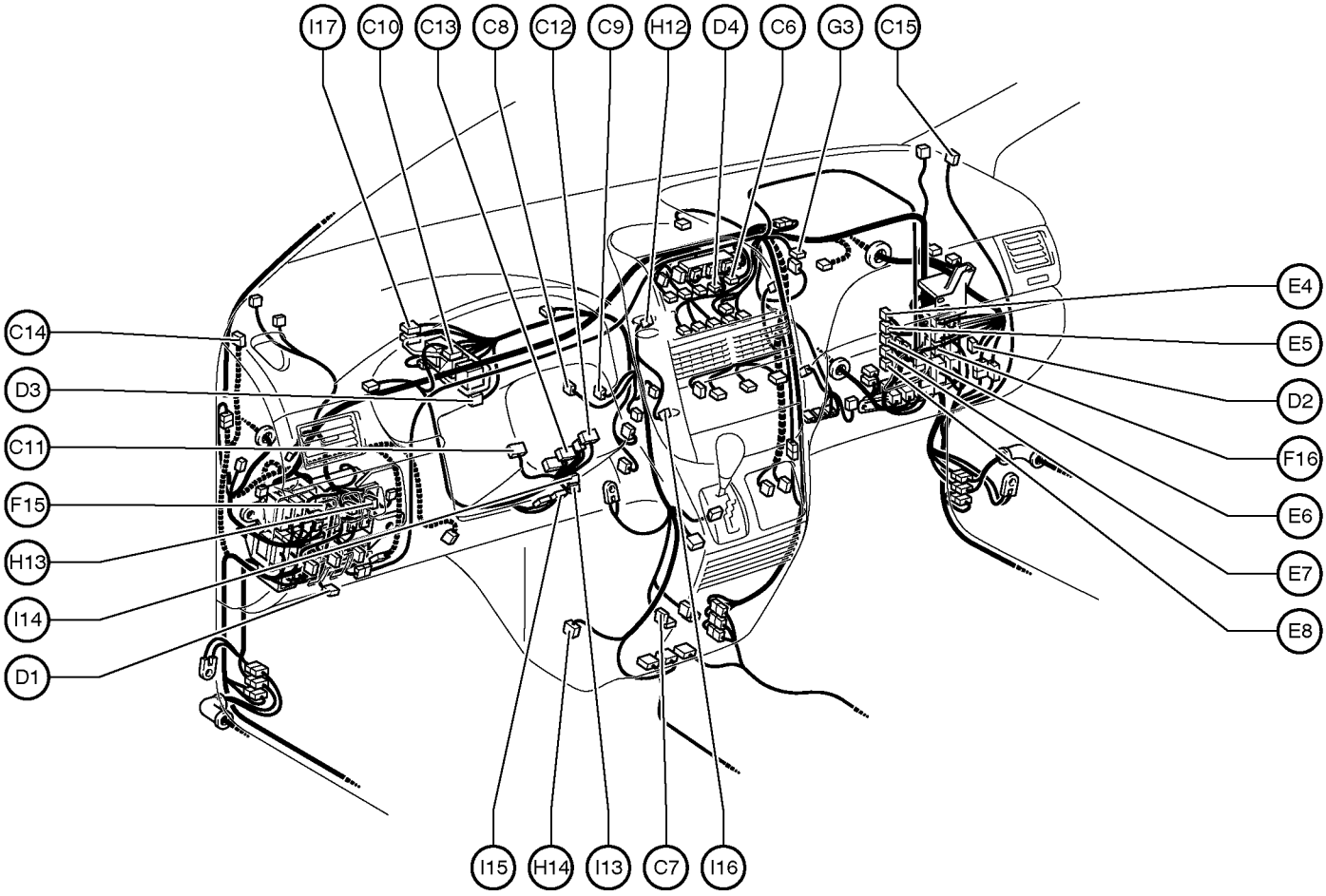
Position of Parts in Instrument Panel



A 9 A/C Control Assembly
A10 A/C Control Assembly
A11 A/C Control Assembly
A12 A/C Evaporator Temp. Sensor (Front)
A13 A/C Room Temp. Sensor
A14 A/T Shift Lever Illumination
A15 Accel Position Sensor
A16 Air Inlet Control Servo Motor
A17 Air Mix Control Servo Motor (Driver Side)
A18 Air Mix Control Servo Motor (Front Passenger Side)
A19 Air Vent Mode Control Servo Motor (Front)
A20 Airbag Sensor Assembly
A21 Airbag Sensor Assembly
A22 Airbag Sensor Assembly
A23 Airbag Squib (Front Passenger Airbag Assembly)
A24 Airbag Squib (Steering Wheel Pad)
A25 Automatic Light Control Sensor

B 2 Blower Motor (Front)
B 3 Blower Motor Controller (Front)
B 4 Blower Resistor
B 5 Blower SW
B 6 Body ECU
B 7 Body ECU
B 8 Body ECU
B 9 Body ECU

Position of Parts in Instrument Panel



C 6 Center Speaker
C 7 Cigarette Lighter
C 8 Clearance Sonar Buzzer
C 9 Clearance Sonar ECU
C10 Combination Meter
C11 Combination SW
C12 Combination SW
C13 Combination SW
C14 Curtain Shield Airbag Squib Front LH
C15 Curtain Shield Airbag Squib Front RH

D 1 Data Link Connector 3
D 2 Distance Control ECU
D 3 Dome Cut Relay
D 4 Door Lock Control Receiver

E 4 Engine Control Module
E 5 Engine Control Module
E 6 Engine Control Module
E 7 Engine Control Module
E 8 Engine Control Module

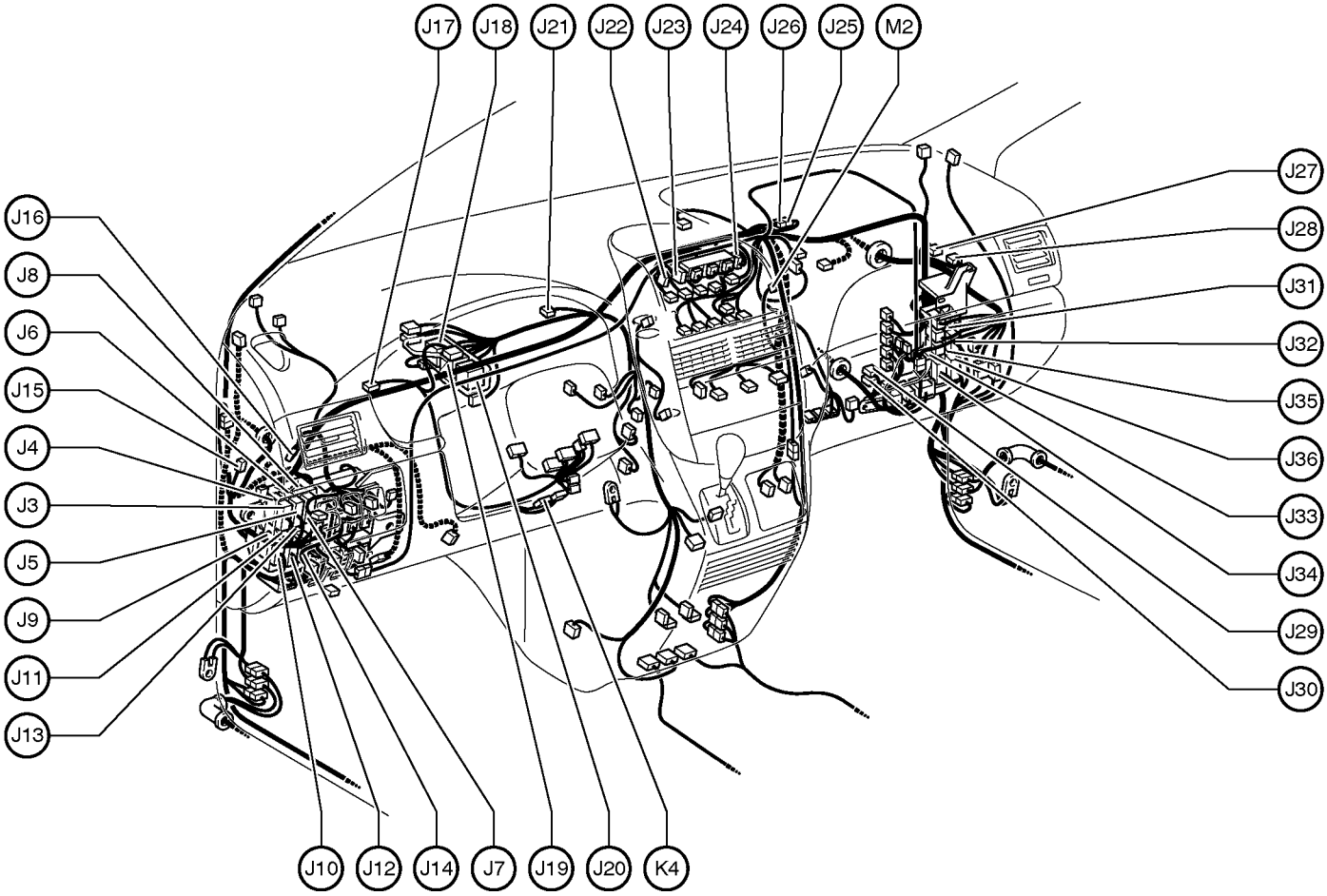
F 15 Front Window Deicer Relay
F 16 Fuse Box

G 3 Glass Antenna Amplifier

H12 Hazard SW
Rear Window Defogger SW
H13 Headlight Beam Level Control SW
H14 Heated Oxygen Sensor (Bank 1 Sensor 2)

I 13 Ignition Key Cylinder Light
I 14 Ignition Key Cylinder Light
Transponder Key Amplifier
I 15 Ignition SW
I 16 Interior Light SW
I 17 Inverter Relay

Position of Parts in Instrument Panel

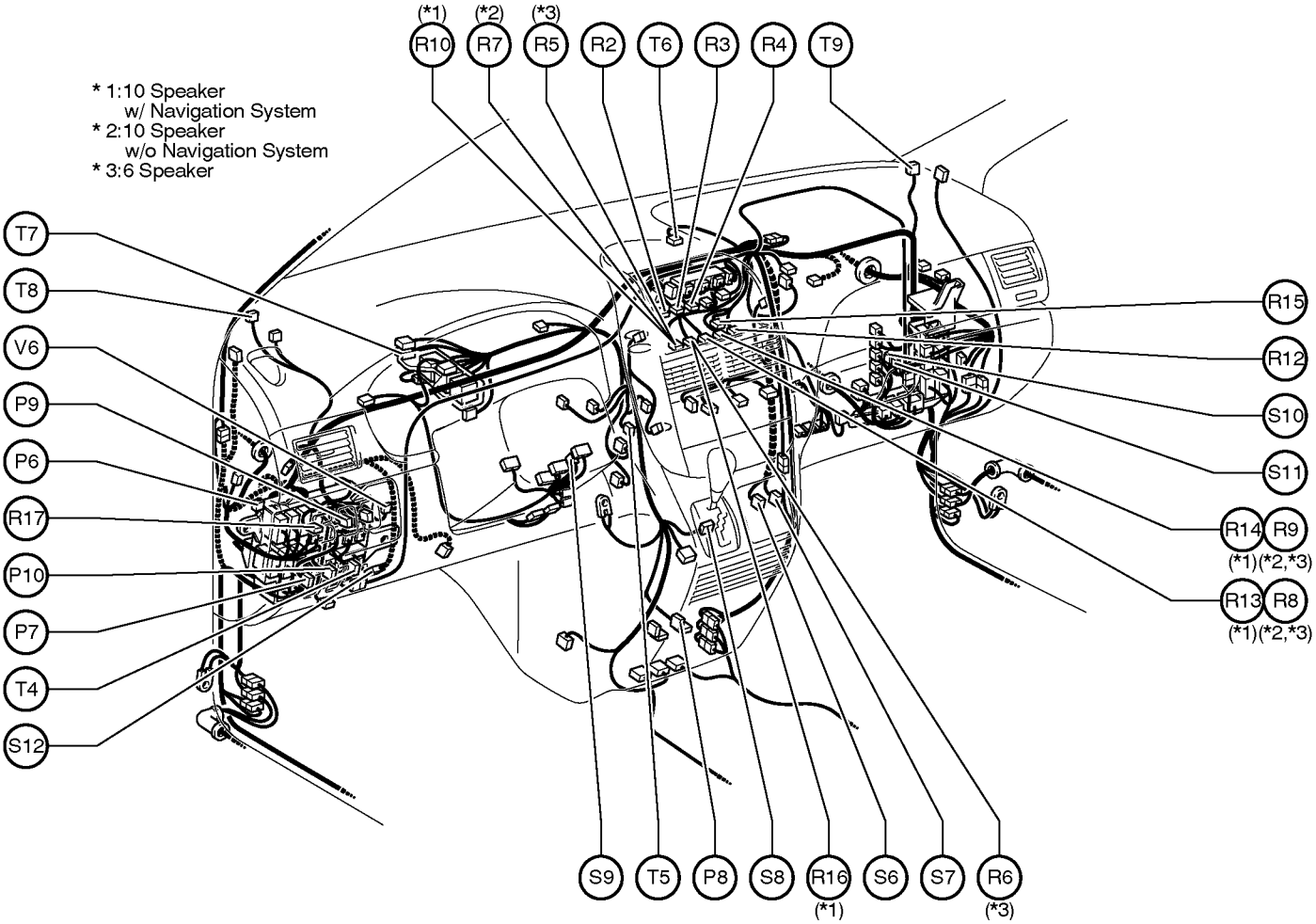


J 3 Junction Connector
J 4 Junction Connector
J 5 Junction Connector
J 6 Junction Connector
J 7 Junction Connector
J 8 Junction Connector
J 9 Junction Connector
J 10 Junction Connector
J 11 Junction Connector
J 12 Junction Connector
J 13 Junction Connector
J 14 Junction Connector
J 15 Junction Connector
J 16 Junction Connector
J 17 Junction Connector
J 18 Junction Connector
J 19 Junction Connector
J 20 Junction Connector
J 21 Junction Connector
J 22 Junction Connector
J 23 Junction Connector
J 24 Junction Connector
J 25 Junction Connector
J 26 Junction Connector
J 27 Junction Connector
J 28 Junction Connector
J 29 Junction Connector
J 30 Junction Connector
J 31 Junction Connector
J 32 Junction Connector
J 33 Junction Connector
J 34 Junction Connector
J 35 Junction Connector
J 36 Junction Connector

K 4 Key Interlock Solenoid
Unlock Warning SW

M 2 Main SW
Security Indicator Light

Position of Parts in Instrument Panel



P 6 Parking Brake SW
P 7 Power Back Door Main SW
P 8 Power Outlet (Front)
P 9 Power Quarter Window SW
P10 Power Slide Door Main SW

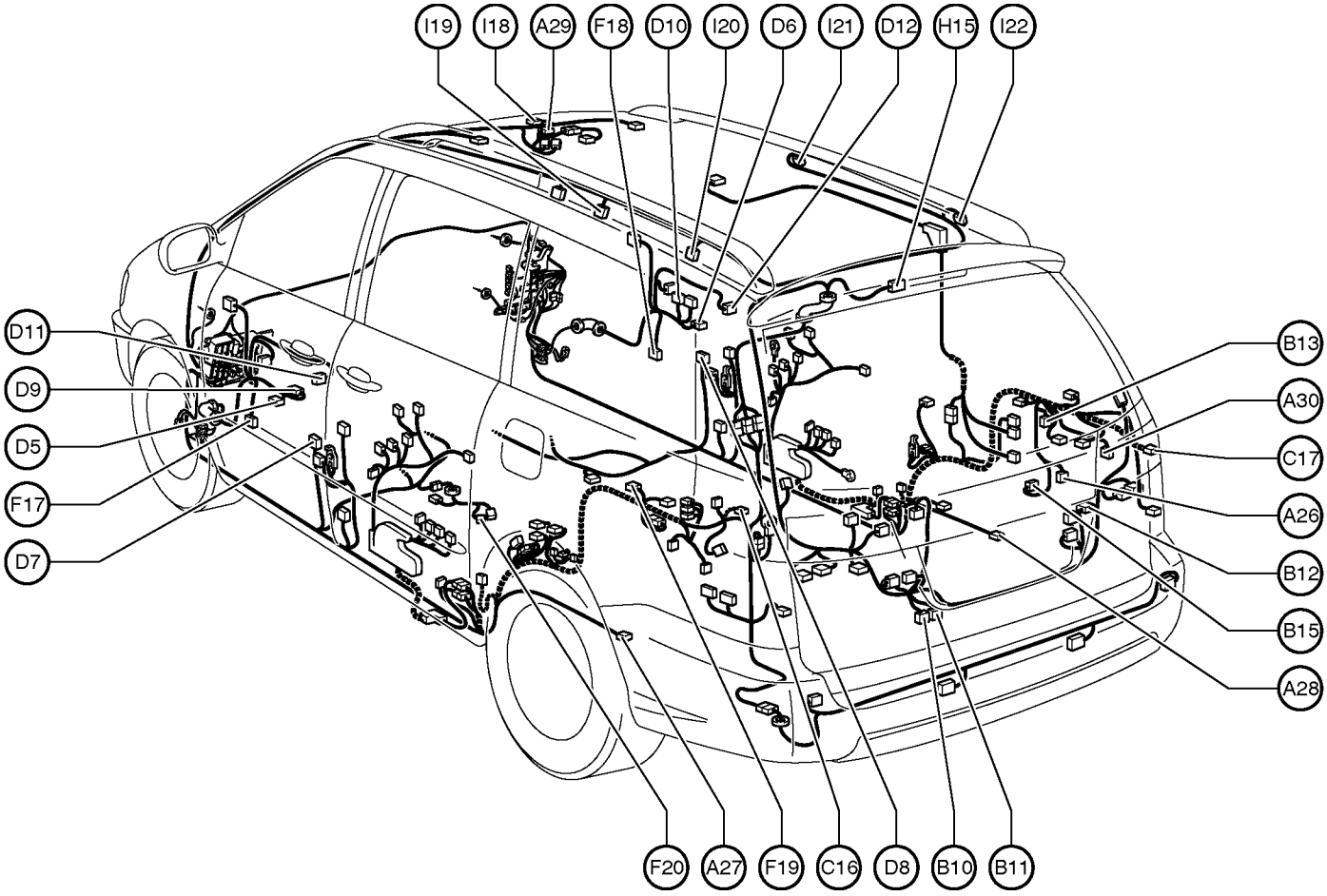
R 2 Radio and Player
R 3 Radio and Player
R 4 Radio and Player
R 5 Radio and Player
R 6 Radio and Player
R 7 Radio and Player
R 8 Radio and Player
R 9 Radio and Player
R10 Radio and Player with Display
R12 Radio and Player with Display
R13 Radio and Player with Display
R14 Radio and Player with Display
R15 Radio and Player with Display
R16 Radio and Player with Display
R17 Remote Control Mirror SW

S 6 Seat Heater SW (Driver's Seat)
S 7 Seat Heater SW (Front Passenger's Seat)
S 8 Shift Lock Control ECU
Transmission Control SW
S 9 Steering Sensor
S10 Stereo Component Amplifier
S11 Stereo Component Amplifier
S12 Stop Light SW

T 4 Tire Pressure Warning Standardization SW
T 5 TRAC Off SW
T 6 Transponder Key Computer
T 7 Turn Signal Flasher
T 8 Tweeter Front LH
T 9 Tweeter Front RH

V 6 VSC Warning Buzzer

Position of Parts in Body



A26 A/C Evaporator Temp. Sensor (Rear)
A27 ABS Speed Sensor Rear LH
A28 ABS Speed Sensor Rear RH
A29 Accessory Meter
A30 Air Vent Mode Control Servo Motor (Rear)

B10 Back Door Lock Assembly
B11 Back Door Lock Assembly
B12 Back Door Opener SW
B13 Blower Motor (Rear)
B15 Blower Motor Controller (Rear)

C16 Curtain Shield Airbag Squib Rear LH
C17 Curtain Shield Airbag Squib Rear RH

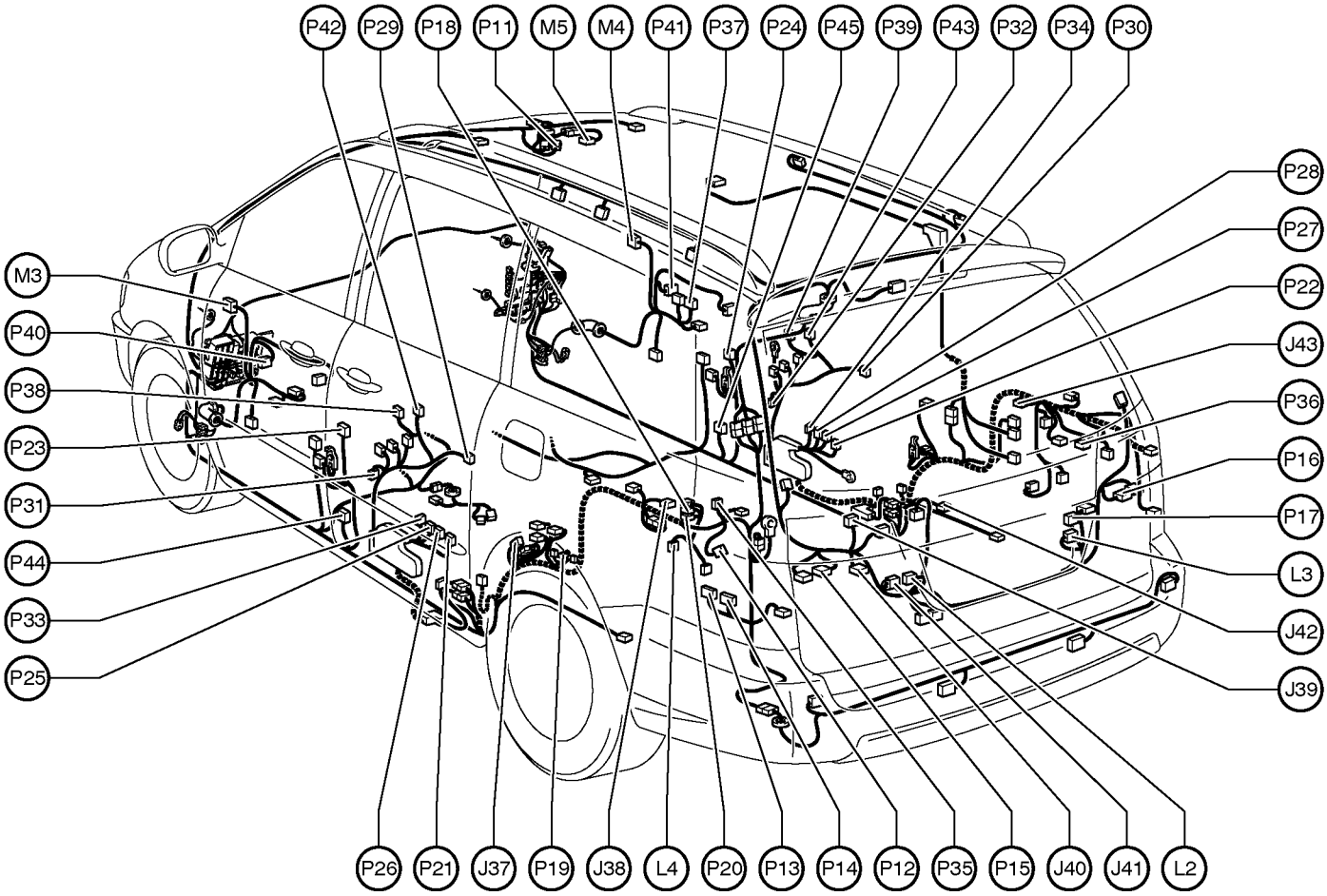
D 5 Door Courtesy Light Front LH
D 6 Door Courtesy Light Front RH
D 7 Door Courtesy SW Front LH
D 8 Door Courtesy SW Front RH
D 9 Door Lock Control SW Front LH
Power Window Master SW
D10 Door Lock Control SW Front RH
D11 Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D12 Door Lock Motor Front RH
Door Unlock Detection SW Front RH

F17 Front Door Speaker LH
F18 Front Door Speaker RH
F19 Fuel Lid Courtesy SW
F20 Fuel Pump
Fuel Sender

H15 High Mounted Stop Light

I 18 Inner Mirror
I 19 Interior Light LH No.1
I 20 Interior Light LH No.2
I 21 Interior Light RH No.1
I 22 Interior Light RH No.2

Position of Parts in Body



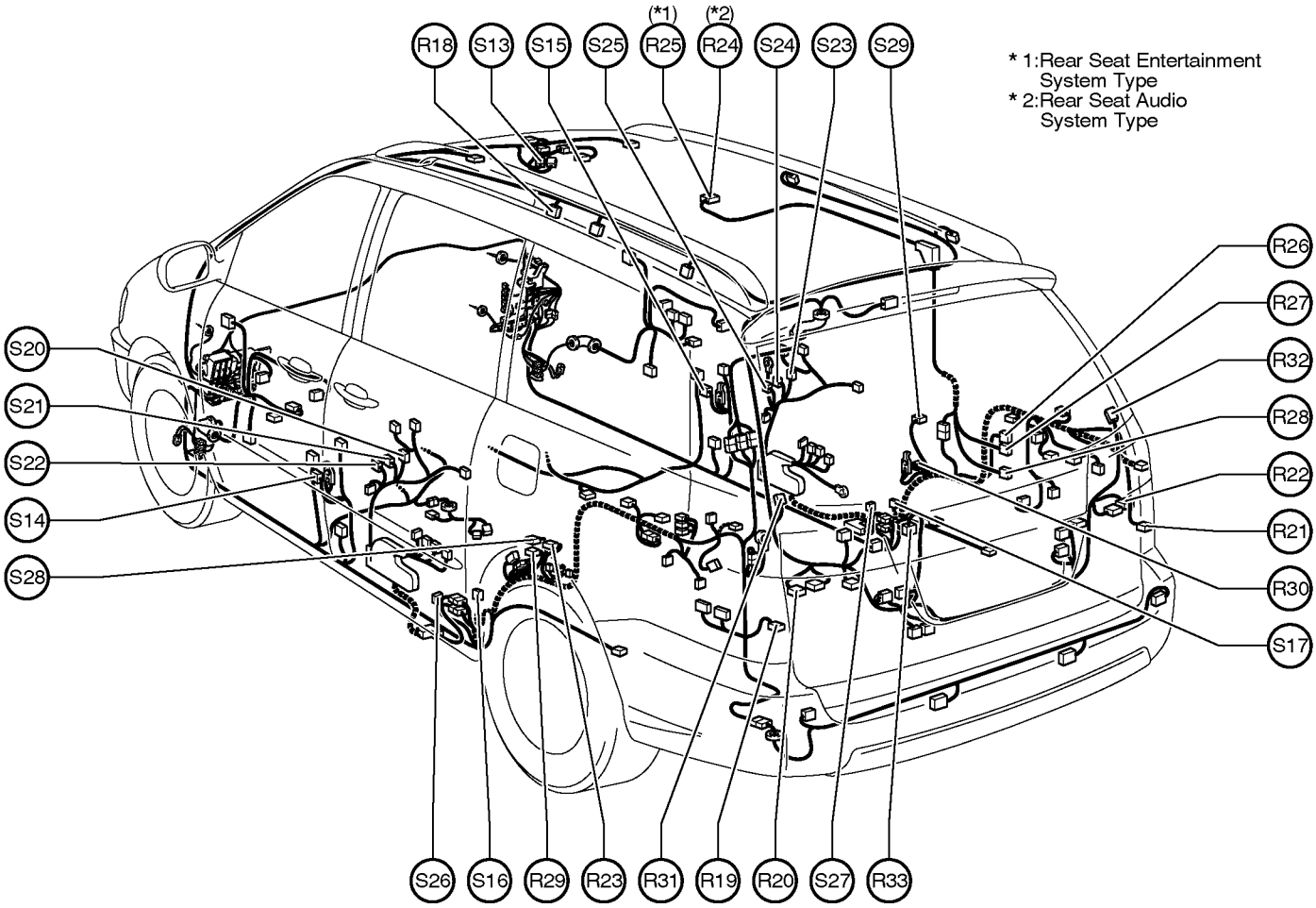
J 37 Junction Connector
J 38 Junction Connector
J 39 Junction Connector
J 40 Junction Connector
J 41 Junction Connector
J 42 Junction Connector
J 43 Junction Connector

L 2 License Plate Light LH
L 3 License Plate Light RH
L 4 Luggage Compartment Light

M 3 Mirror Heater LH
Remote Control Mirror LH
M 4 Mirror Heater RH
Remote Control Mirror RH
M 5 Moon Roof Control ECU

P 11 Personal Light
P 12 Power Back Door Drive Unit
P 13 Power Back Door ECU
P 14 Power Back Door ECU
P 15 Power Back Door Touch Sensor LH
P 16 Power Back Door Touch Sensor RH
P 17 Power Back Door Warning Buzzer
P 18 Power Outlet (Rear)
P 19 Power Outlet No.1 (115V)
P 20 Power Outlet No.2 (115V)
P 21 Power Slide Door Control Motor and Clutch LH
P 22 Power Slide Door Control Motor and Clutch RH
P 23 Power Slide Door Control SW LH
P 24 Power Slide Door Control SW RH
P 25 Power Slide Door ECU LH
P 26 Power Slide Door ECU LH
P 27 Power Slide Door ECU RH
P 28 Power Slide Door ECU RH
P 29 Power Slide Door Lock Assembly LH
P 30 Power Slide Door Lock Assembly RH
P 31 Power Slide Door Touch Sensor LH
P 32 Power Slide Door Touch Sensor RH
P 33 Power Slide Door Warning Buzzer LH
P 34 Power Slide Door Warning Buzzer RH
P 35 Power Vent Window Motor LH
P 36 Power Vent Window Motor RH
P 37 Power Window Control SW Front RH
P 38 Power Window Control SW Rear LH
P 39 Power Window Control SW Rear RH
P 40 Power Window Motor Front LH
P 41 Power Window Motor Front RH
P 42 Power Window Motor Rear LH
P 43 Power Window Motor Rear RH
P 44 Pretensioner LH
P 45 Pretensioner RH

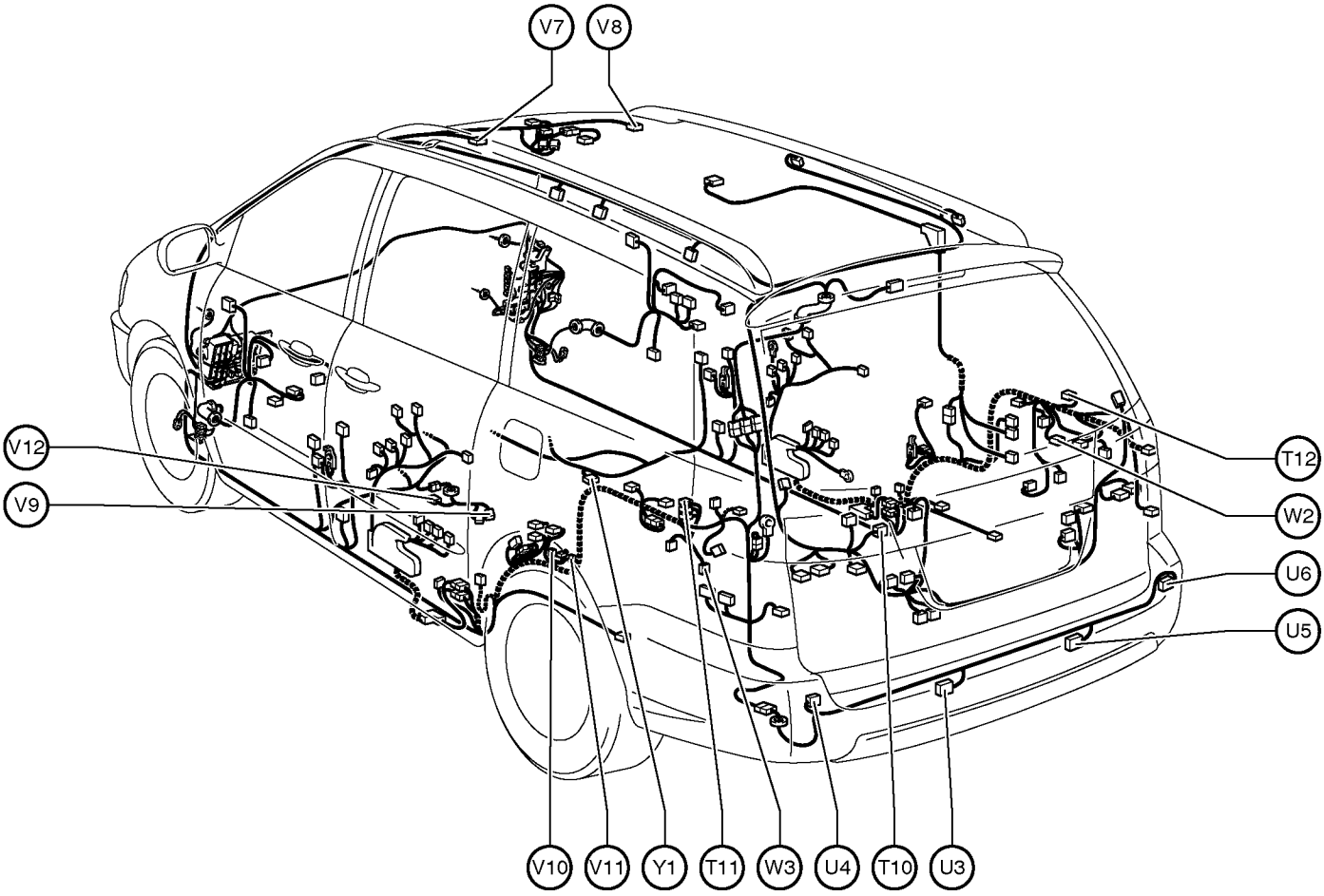
Position of Parts in Body



R18 Rear A/C Control SW
R19 Rear Combination Light LH
R20 Rear Combination Light LH
R21 Rear Combination Light RH
R22 Rear Combination Light RH
R23 Rear Room Temp. Sensor
R24 Rear Seat Audio Controller
R25 Rear Seat Entertainment Display
R26 Rear Seat Entertainment ECU
R27 Rear Seat Entertainment ECU
R28 Rear Seat Entertainment ECU
R29 Rear Speaker LH
R30 Rear Speaker RH
R31 Rear Window Defogger
R32 Rear Window Defogger
R33 Rear Wiper Motor and Relay

S13 Satellite SW
S14 Side Airbag Sensor Front LH
S15 Side Airbag Sensor Front RH
S16 Side Airbag Sensor Rear LH
S17 Side Airbag Sensor Rear RH
S20 Slide Door Attachment Control LH
S21 Slide Door Attachment Control LH
S22 Slide Door Attachment Control LH
S23 Slide Door Attachment Control RH
S24 Slide Door Attachment Control RH
S25 Slide Door Attachment Control RH
S26 Slide Door Courtesy Light LH
S27 Slide Door Courtesy Light RH
S28 Slide Door Courtesy SW LH
S29 Slide Door Courtesy SW RH

Position of Parts in Body



T 10 Television Camera
T 11 Tweeter Rear LH
T 12 Tweeter Rear RH

U 3 Ultrasonic Sensor (Rear Left Center)
U 4 Ultrasonic Sensor (Rear Left)
U 5 Ultrasonic Sensor (Rear Right Center)
U 6 Ultrasonic Sensor (Rear Right)

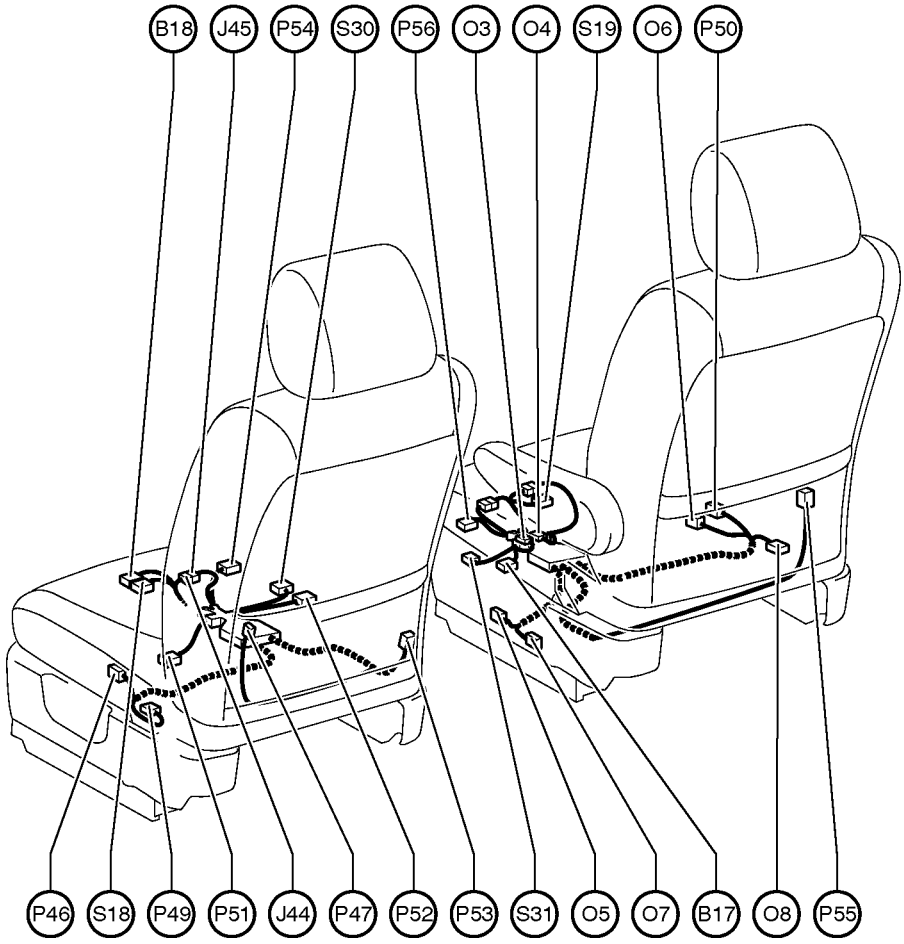
V 7 Vanity Light LH
V 8 Vanity Light RH
V 9 Vapor Pressure Sensor
V 10 Video Terminal
V 11 Voltage Inverter
V 12 VSV (Canister Closed Valve)

W 2 Water Valve Servo Motor
W 3 Woofer

Y 1 Yaw Rate Sensor

Position of Parts in Seat

[w/ Power Seat]



B17 Buckle SW RH
B18 Buckle SW LH
Seat Position Sensor

J 44 Junction Connector
J 45 Junction Connector

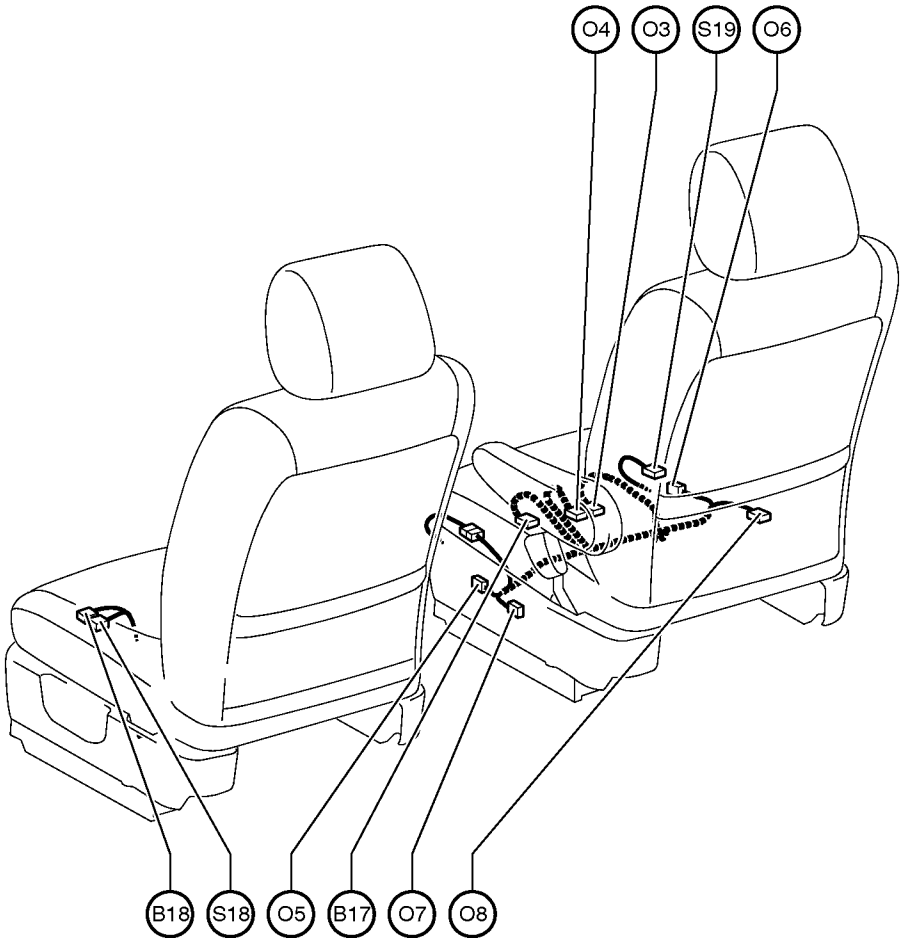
O 3 Occupant Classification ECU
O 4 Occupant Classification ECU
O 5 Occupant Classification Sensor Front LH
O 6 Occupant Classification Sensor Front RH
O 7 Occupant Classification Sensor Rear LH
O 8 Occupant Classification Sensor Rear RH

P46 Power Seat Control SW (Driver's Seat)
P47 Power Seat Motor (Driver's Seat Reclining Control)
P49 Power Seat Control SW
(Driver's Seat Lumbar Support Control)
P50 Power Seat Control SW (Front Passenger's Seat)
P51 Power Seat Motor (Driver's Seat Front Vertical Control)
P52 Power Seat Motor (Driver's Seat Lifter Control)
P53 Power Seat Motor
(Driver's Seat Lumbar Support Control)
P54 Power Seat Motor (Driver's Seat Slide Control)
P55 Power Seat Motor
(Front Passenger's Seat Reclining Control)
P56 Power Seat Motor
(Front Passenger's Seat Slide Control)

S18 Side Airbag Squib LH
S19 Side Airbag Squib RH
S30 Seat Heater ECU LH
S31 Seat Heater ECU RH

Position of Parts in Seat

[w/o Power Seat]



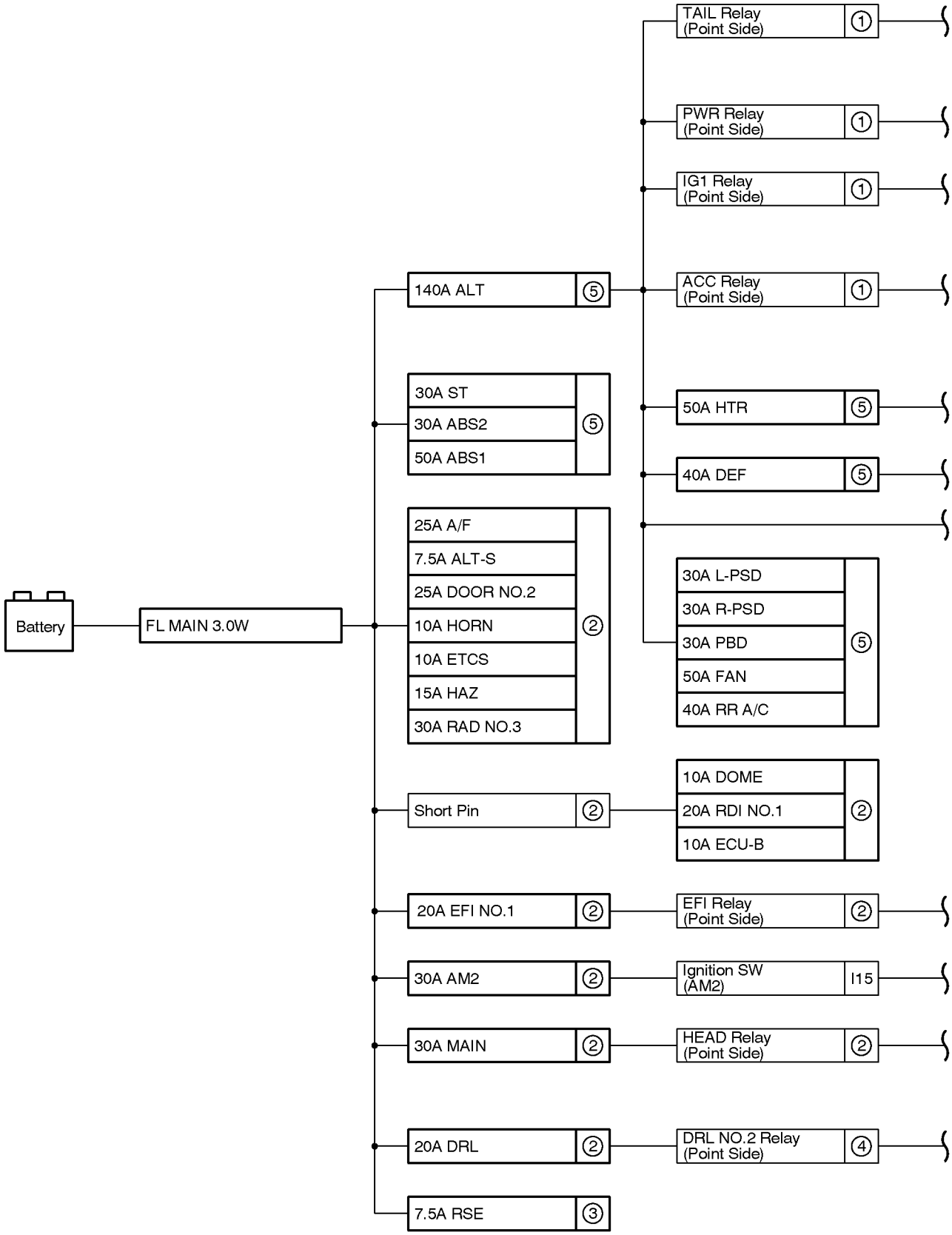
B17 Buckle SW RH
B18 Buckle SW LH
Seat Position Sensor

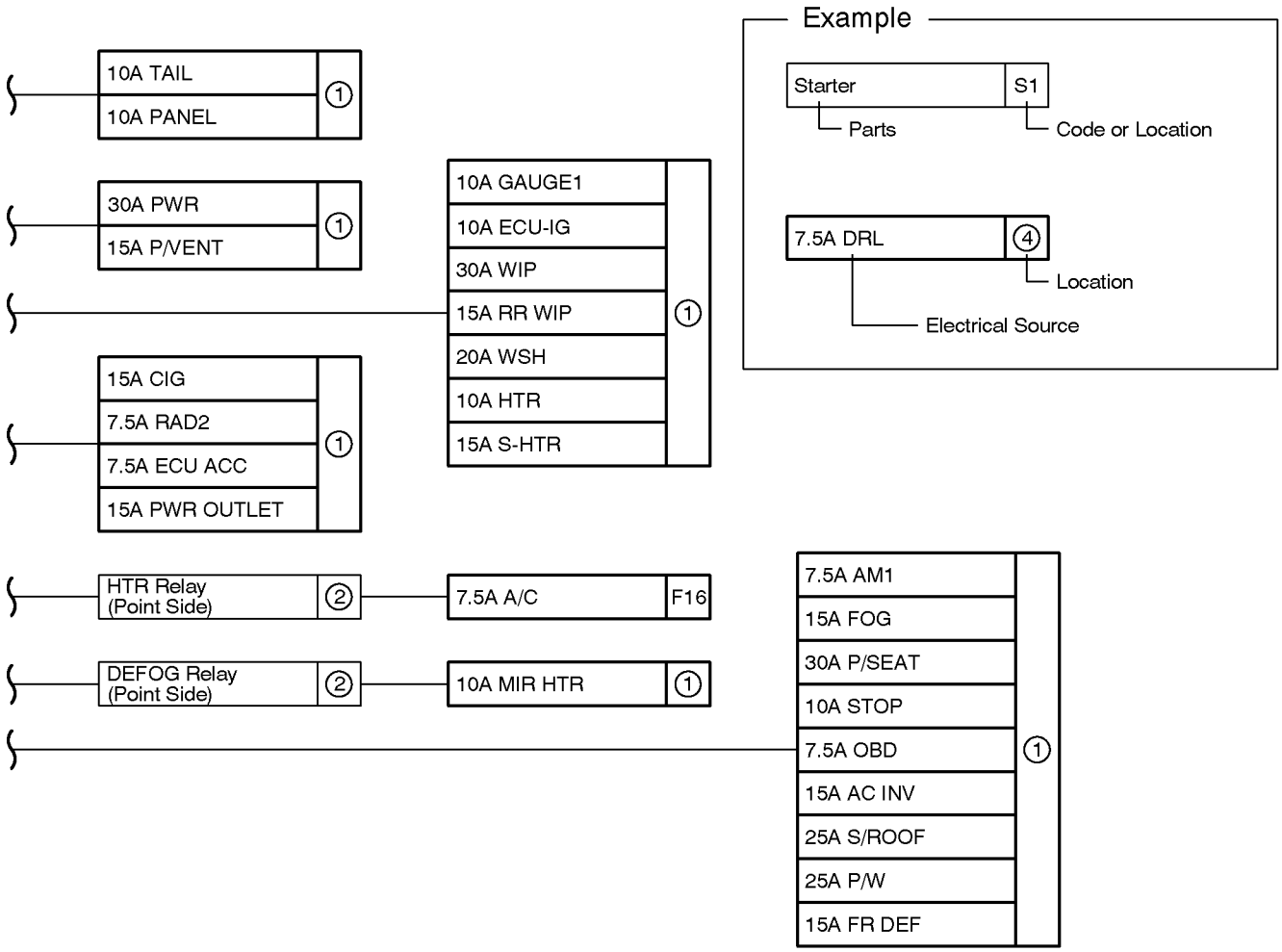
S18 Side Airbag Squib LH
S19 Side Airbag Squib RH

O 3 Occupant Classification ECU
O 4 Occupant Classification ECU
O 5 Occupant Classification Sensor Front LH
O 6 Occupant Classification Sensor Front RH
O 7 Occupant Classification Sensor Rear LH
O 8 Occupant Classification Sensor Rear RH

J POWER SOURCE (Current Flow Chart)

The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other Parts.





[Location]

① : Driver Side J/B (See Page 26)

② : Engine Room J/B (See Page 22)

③ : R/B No.3 (See Page 24)

④ : R/B No.4 (See Page 24)

⑤ : Fusible Link Block
(F6, F7, F8, F9, F10, F11, F12, F13, F14, on See Page 32)

Driver Side J/B (See Page 26)

Fuse		System	Page
7.5A	ECU ACC	Automatic Air Conditioning (Front)	350
		Automatic Light Control	118
		Back Door Opener (w/o Power Back Door)	184
		Door Lock Control	190
		Fog Light	116
		Headlight	108
		Interior Light	126
		Key Reminder	148
		Light Auto Turn Off System	120
		Manual Air Conditioning (Front)	354
		Moon Roof	262
		Multiplex Communication System (BEAN)	92
		Power Window (w/ Jam Protection)	162
		Power Window (w/o Jam Protection)	166
		Remote Control Mirror	268
		Seat Belt Warning	152
		Shift Lock	266
		Theft Deterrent	206
		Wireless Door Lock Control	198
7.5A	GAUGE2	ABS and Tire Pressure Warning System (w/o VSC)	248
		Accessory Meter and Garage Door Opener	270
		Charging	66
		Combination Meter	340
		Cruise Control	236
		Door Lock Control	190
		Dynamic Laser Cruise Control	224
		Electronically Controlled Transmission and A/T Indicator	216
		Engine Control	70
		Headlight	108
		Illumination	138
		Interior Light	126
		Key Reminder	148
		Moon Roof	262
		Multiplex Communication System (BEAN)	92
		Navigation System (w/ Rear Seat Audio System) and Audio System (10 Speaker w/ Navigation and Rear Seat Audio System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Audio System)	308
		Navigation System (w/ Rear Seat Entertainment System) and Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Entertainment System)	298
		Seat Belt Warning	152
		SRS	253

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
7.5A	GAUGE2	Theft Deterrent	206
		TOYOTA Parking Assist (Clearance Sonar)	294
		VSC and Tire Pressure Warning System (w/ VSC)	242
		Wireless Door Lock Control	198
7.5A	IGN	Cruise Control	236
		Dynamic Laser Cruise Control	224
		Electronically Controlled Transmission and A/T Indicator	216
		Engine Control	70
		Engine Immobilizer System	84
		SRS	253
7.5A	OBD	Engine Control	70
7.5A	RAD2	Audio System (10 Speaker w/ Rear Seat Audio System)	322
		Audio System (10 Speaker w/ Rear Seat Entertainment System)	316
		Audio System (6 Speaker)	338
		Audio System (6 Speaker w/ Rear Seat Audio System)	334
		Audio System (6 Speaker w/ Rear Seat Entertainment System)	328
		Navigation System (w/ Rear Seat Audio System) and Audio System (10 Speaker w/ Navigation and Rear Seat Audio System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Audio System)	308
		Navigation System (w/ Rear Seat Entertainment System) and Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Entertainment System)	298
10A	ECU-IG	ABS and Tire Pressure Warning System (w/o VSC)	248
		Accessory Meter and Garage Door Opener	270
		Automatic Glare-Resistant EC Mirror with Compass	280
		Automatic Light Control	118
		Back Door Opener (w/o Power Back Door)	184
		Door Lock Control	190
		Dynamic Laser Cruise Control	224
		Fog Light	116
		Headlight	108
		Interior Light	126
		Key Reminder	148
		Light Auto Turn Off System	120
		Moon Roof	262
		Multiplex Communication System (BEAN)	92
		Power Back Door	178
		Power Outlet (115V)	276
		Power Slide Door	170
		Power Window (w/ Jam Protection)	162
		Power Window (w/o Jam Protection)	166
		Seat Belt Warning	152
		Seat Heater	288
		Shift Lock	266

* These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
10A	ECU-IG	Stop Light	144
		Theft Deterrent	206
		TOYOTA Parking Assist (Clearance Sonar)	294
		VSC and Tire Pressure Warning System (w/ VSC)	242
		Wireless Door Lock Control	198
10A	GAUGE1	ABS and Tire Pressure Warning System (w/o VSC)	248
		Back-Up Light	146
		Charging	66
		Cruise Control	236
		Dynamic Laser Cruise Control	224
		Electronically Controlled Transmission and A/T Indicator	216
		Navigation System (w/ Rear Seat Audio System) and Audio System (10 Speaker w/ Navigation and Rear Seat Audio System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Audio System)	308
		Navigation System (w/ Rear Seat Entertainment System) and Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Entertainment System)	298
		Power Back Door	178
		Power Slide Door	170
		TOYOTA Parking Assist (Clearance Sonar)	294
		Turn Signal and Hazard Warning Light	122
10A	HTR	Automatic Air Conditioning (Front)	350
		Automatic Air Conditioning (Rear)	358
		Front Window Deicer and Rear Window Defogger	290
		Manual Air Conditioning (Front)	354
		Manual Air Conditioning (Rear)	362
		Mirror Heater	292
		Radiator Fan	348
		SRS	253
10A	MIR HTR	Mirror Heater	292
10A	PANEL	Accessory Meter and Garage Door Opener	270
		Illumination	138
10A	STOP	ABS and Tire Pressure Warning System (w/o VSC)	248
		Cruise Control	236
		Dynamic Laser Cruise Control	224
		Electronically Controlled Transmission and A/T Indicator	216
		Engine Control	70
		Shift Lock	266
		Stop Light	144
		VSC and Tire Pressure Warning System (w/ VSC)	242
10A	TAIL	Taillight	134
15A	AC INV	Power Outlet (115V)	276
15A	CIG	Cigarette Lighter	274

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
15A	FOG	Fog Light Multiplex Communication System (BEAN)	116 92
15A	FR DEF	Front Window Deicer and Rear Window Defogger	290
15A	INJ	Engine Control Starting and Ignition	70 62
15A	P/VENT	Power Rear Quarter Window	188
15A	PWR OUTLET	Power Outlet (12V)	278
15A	RR WIP	Rear Wiper and Washer	160
15A	S-HTR	Seat Heater	288
20A	WSH	Front Wiper and Washer Rear Wiper and Washer	156 160
25A	P/W	Power Window (w/ Jam Protection)	162
25A	S/ROOF	Moon Roof	262
30A	P/SEAT	Power Seat (Driver's Seat) Power Seat (Front Passenger's Seat)	284 286
30A	PWR	Power Window (w/ Jam Protection) Power Window (w/o Jam Protection)	162 166
30A	WIP	Front Wiper and Washer	156

Engine Room J/B (See Page 22)

Fuse		System	Page
7.5A	ALT-S	Charging	66
10A	DOME	Accessory Meter and Garage Door Opener Back Door Opener (w/o Power Back Door) Interior Light Multiplex Communication System (BEAN) Theft Deterrent Wireless Door Lock Control	270 184 126 92 206 198
10A	ECU-B	ABS and Tire Pressure Warning System (w/o VSC) Accessory Meter and Garage Door Opener Automatic Air Conditioning (Front) Automatic Air Conditioning (Rear) Automatic Light Control Back Door Opener (w/o Power Back Door) Charging Combination Meter Cruise Control Door Lock Control Dynamic Laser Cruise Control Electronically Controlled Transmission and A/T Indicator Engine Control Engine Immobilizer System Fog Light Headlight	248 270 350 358 118 184 66 340 236 190 224 216 70 84 116 108

* These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
10A	ECU-B	Illumination	138
		Interior Light	126
		Key Reminder	148
		Light Auto Turn Off System	120
		Manual Air Conditioning (Front)	354
		Manual Air Conditioning (Rear)	362
		Moon Roof	262
		Multiplex Communication System (BEAN)	92
		Navigation System (w/ Rear Seat Audio System) and Audio System (10 Speaker w/ Navigation and Rear Seat Audio System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Audio System)	308
		Navigation System (w/ Rear Seat Entertainment System) and Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Entertainment System)	298
		Power Back Door	178
		Power Slide Door	170
		Power Window (w/ Jam Protection)	162
		Power Window (w/o Jam Protection)	166
		Seat Belt Warning	152
		SRS	253
		Theft Deterrent	206
		TOYOTA Parking Assist (Clearance Sonar)	294
		VSC and Tire Pressure Warning System (w/ VSC)	242
		Wireless Door Lock Control	198
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		Engine Control	70
10A	ETCS	Cruise Control	236
		Dynamic Laser Cruise Control	224
		Electronically Controlled Transmission and A/T Indicator	216
		Engine Control	70
10A	HORN	Horn	282
		Multiplex Communication System (BEAN)	92
		Theft Deterrent	206
		Wireless Door Lock Control	198
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* These are the page numbers of the first page on which the related system is shown.

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		Dynamic Laser Cruise Control	224
		Electronically Controlled Transmission and A/T Indicator	216
		Engine Control	70
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		Navigation System (w/ Rear Seat Entertainment System) and Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Entertainment System)	298
25A	A/F	Engine Control	70
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30A	MAIN	Automatic Light Control	118
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30A	RAD NO.3	Audio System (10 Speaker w/ Rear Seat Audio System)	322
		Audio System (10 Speaker w/ Rear Seat Entertainment System)	316
		Navigation System (w/ Rear Seat Audio System) and Audio System (10 Speaker w/ Navigation and Rear Seat Audio System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Audio System)	308
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R/B No.3 (See Page 24)

Fuse		System	Page
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* These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
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		Navigation System (w/ Rear Seat Entertainment System) and Audio System (10 Speaker w/ Navigation and Rear Seat Entertainment System) and TOYOTA Parking Assist (Rear View Monitor w/ Rear Seat Entertainment System)	298
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10A	H-LP RH	Headlight	108
		Multiplex Communication System (BEAN)	92

Fusible Link Block (F6, F7, F8, F9, F10, F11, F12, F13, F14 on See Page 32)

Fuse		System	Page
30A	ABS2	ABS and Tire Pressure Warning System (w/o VSC)	248
		Dynamic Laser Cruise Control	224
		VSC and Tire Pressure Warning System (w/ VSC)	242
30A	L-PSD	Power Slide Door	170
30A	PBD	Power Back Door	178
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30A	ST	Starting and Ignition	62
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		VSC and Tire Pressure Warning System (w/ VSC)	242
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50A	HTR	Automatic Air Conditioning (Front)	350
		Manual Air Conditioning (Front)	354
140A	ALT	Automatic Air Conditioning (Front)	350
		Automatic Air Conditioning (Rear)	358
		Automatic Light Control	118
		Charging	66
		Front Window Deicer and Rear Window Defogger	290
		Illumination	138
		Light Auto Turn Off System	120
		Manual Air Conditioning (Front)	354
		Manual Air Conditioning (Rear)	362
		Mirror Heater	292
		Multiplex Communication System (BEAN)	92
		Power Back Door	178
		Power Slide Door	170

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
140A	ALT	Power Window (w/ Jam Protection)	162
		Power Window (w/o Jam Protection)	166
		Radiator Fan	348
		Taillight	134
		Theft Deterrent	206
		Wireless Door Lock Control	198

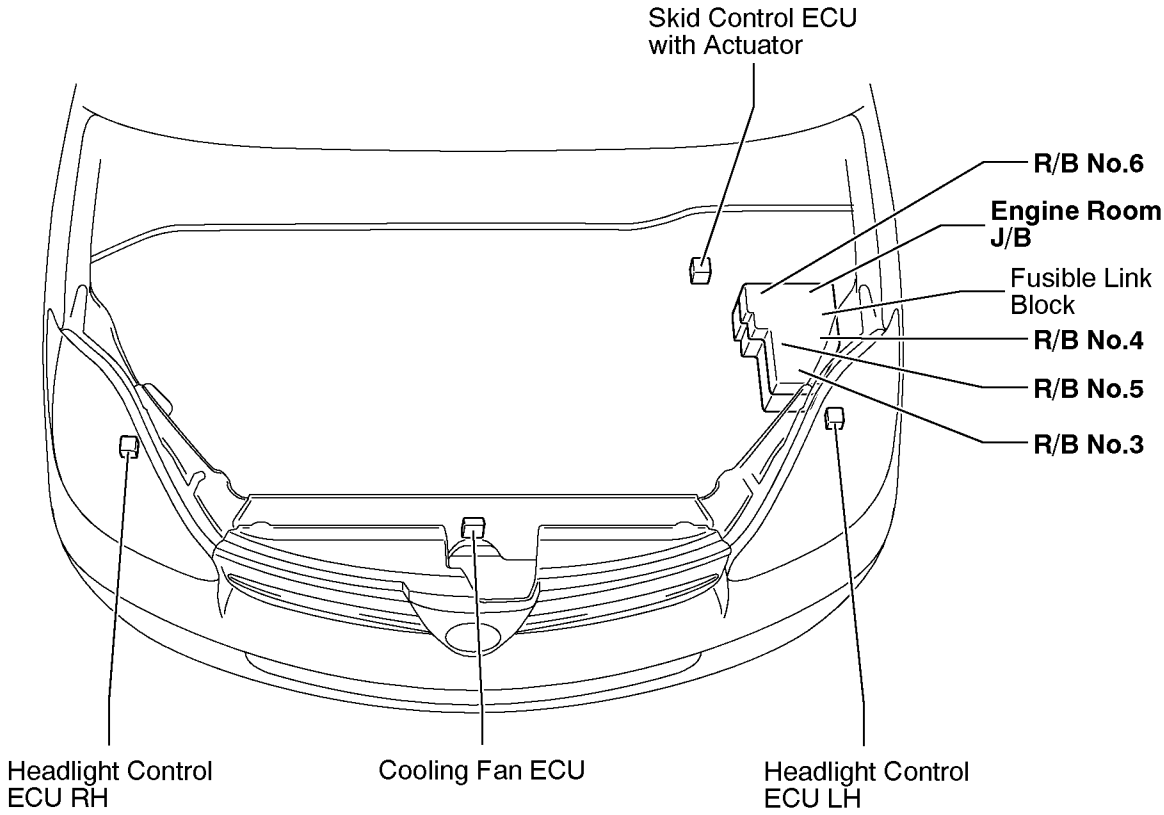
Fuse Box (See Page 25)

Fuse		System	Page
7.5A	A/C	Manual Air Conditioning (Front)	354
7.5A	ST	Electronically Controlled Transmission and A/T Indicator	216
		Engine Control	70
		Starting and Ignition	62

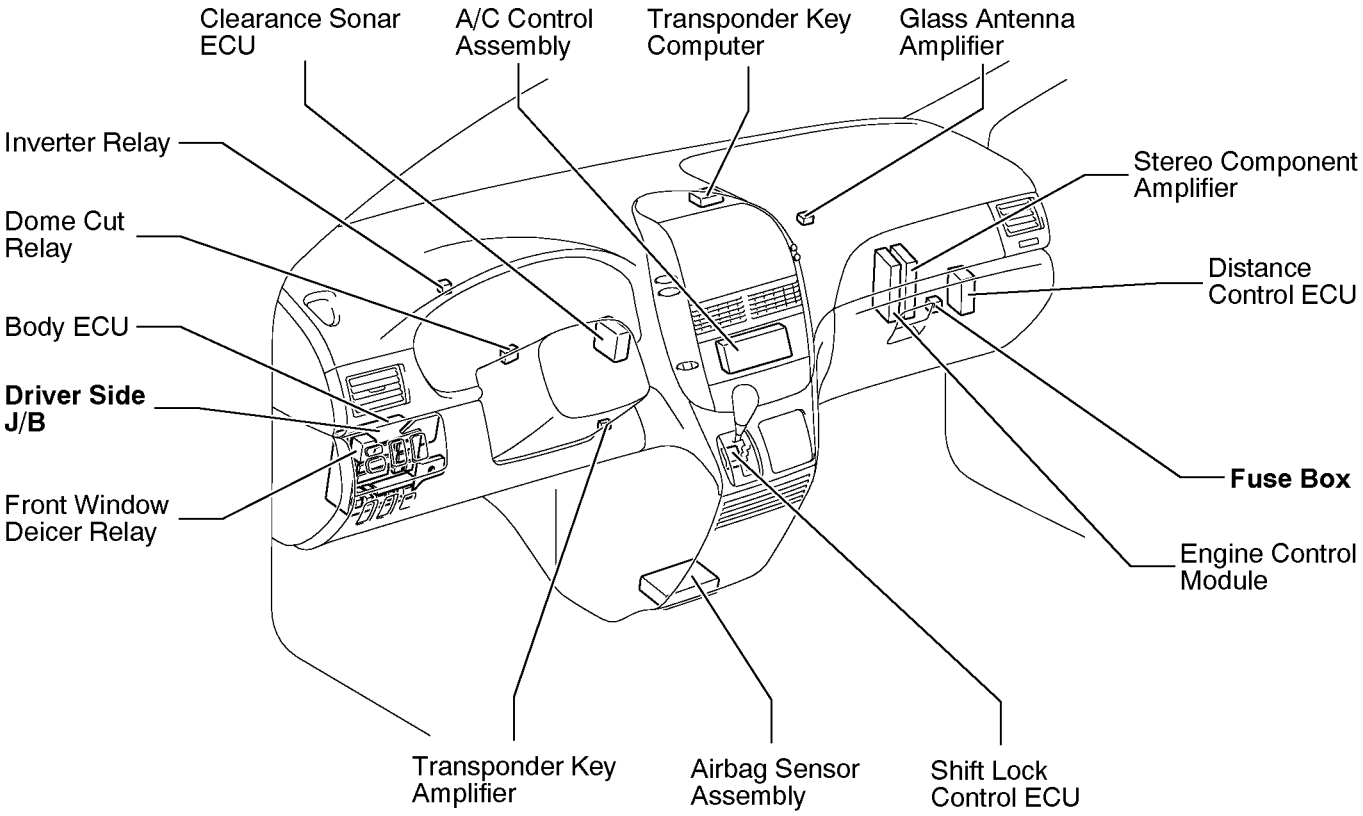
* These are the page numbers of the first page on which the related system is shown.

F RELAY LOCATIONS

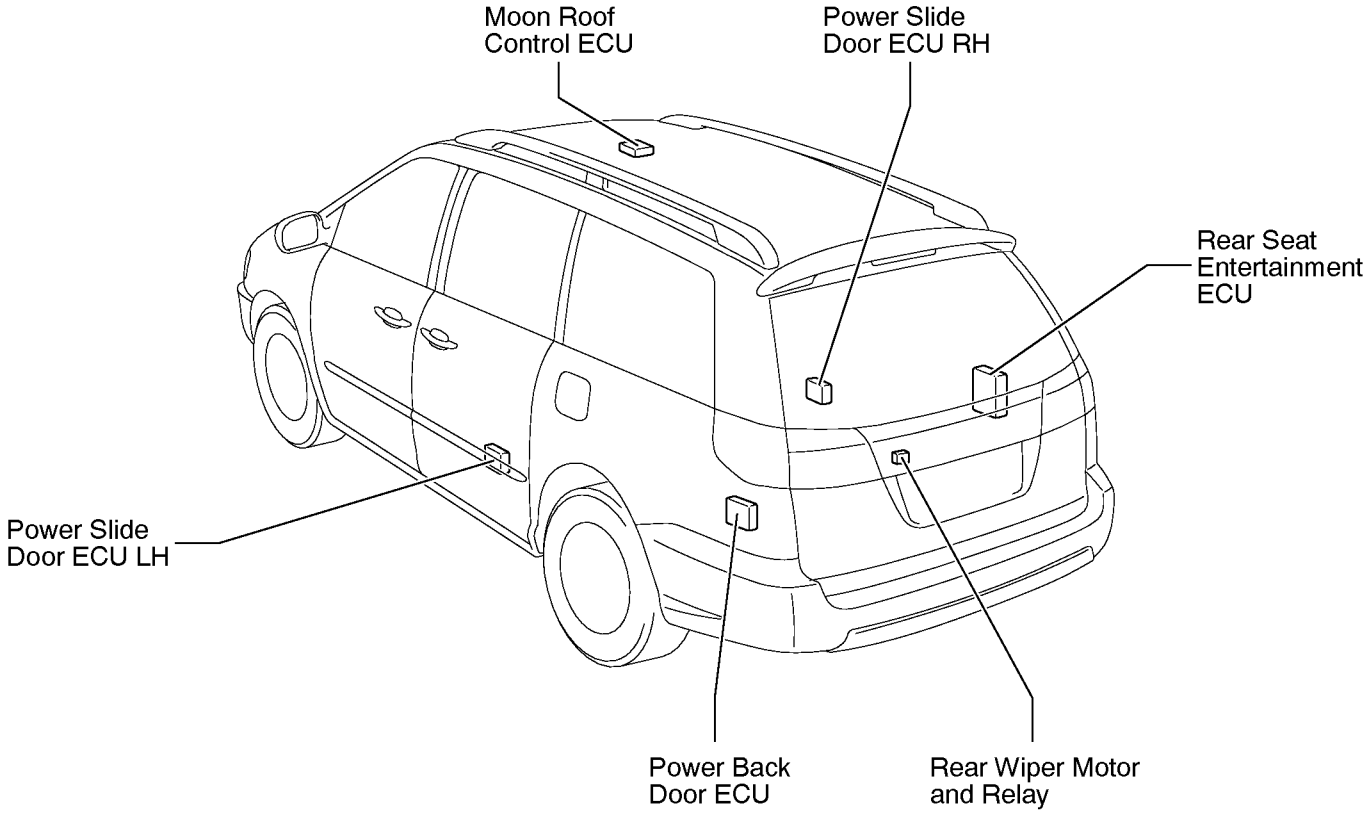
[Engine Compartment]



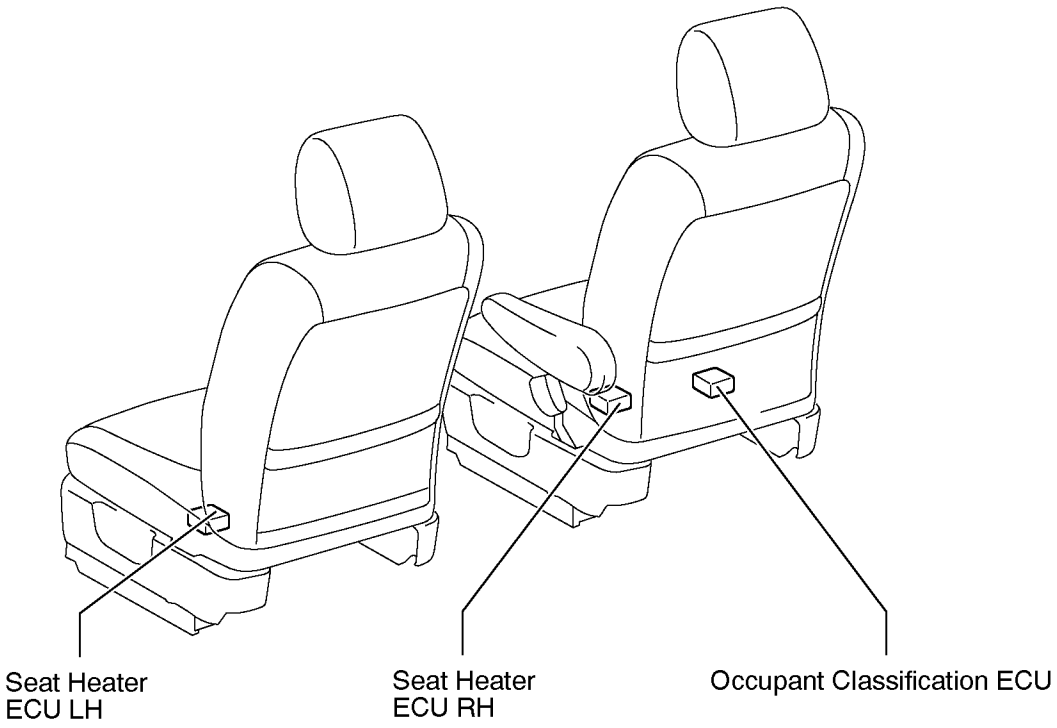
[Instrument Panel]



[Body]

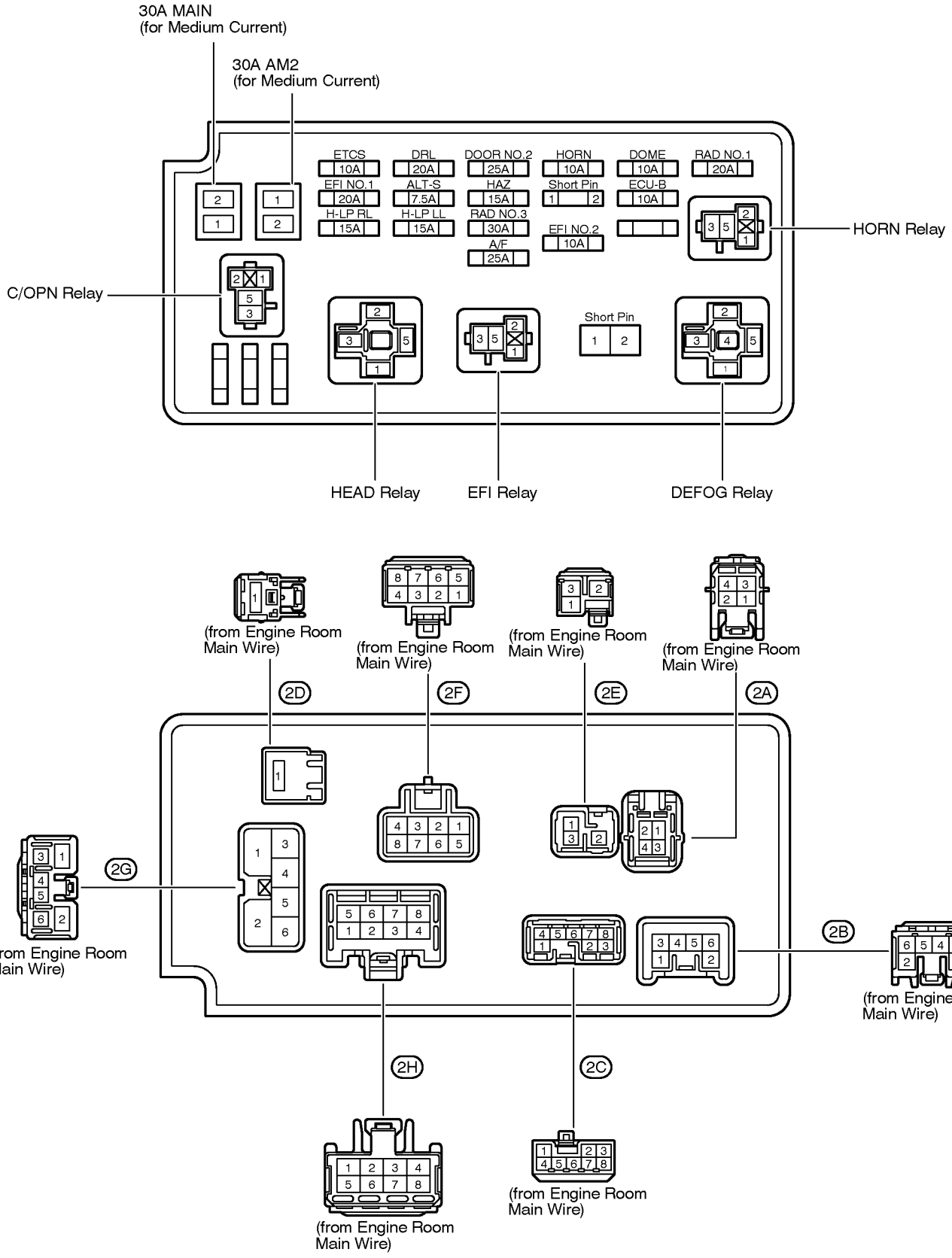

Moon Roof
Control ECU
Power Slide
Door ECU RH
Rear Seat
Entertainment
ECU
Power Slide
Door ECU LH
Power Back
Door ECU
Rear Wiper Motor
and Relay

[Seat]

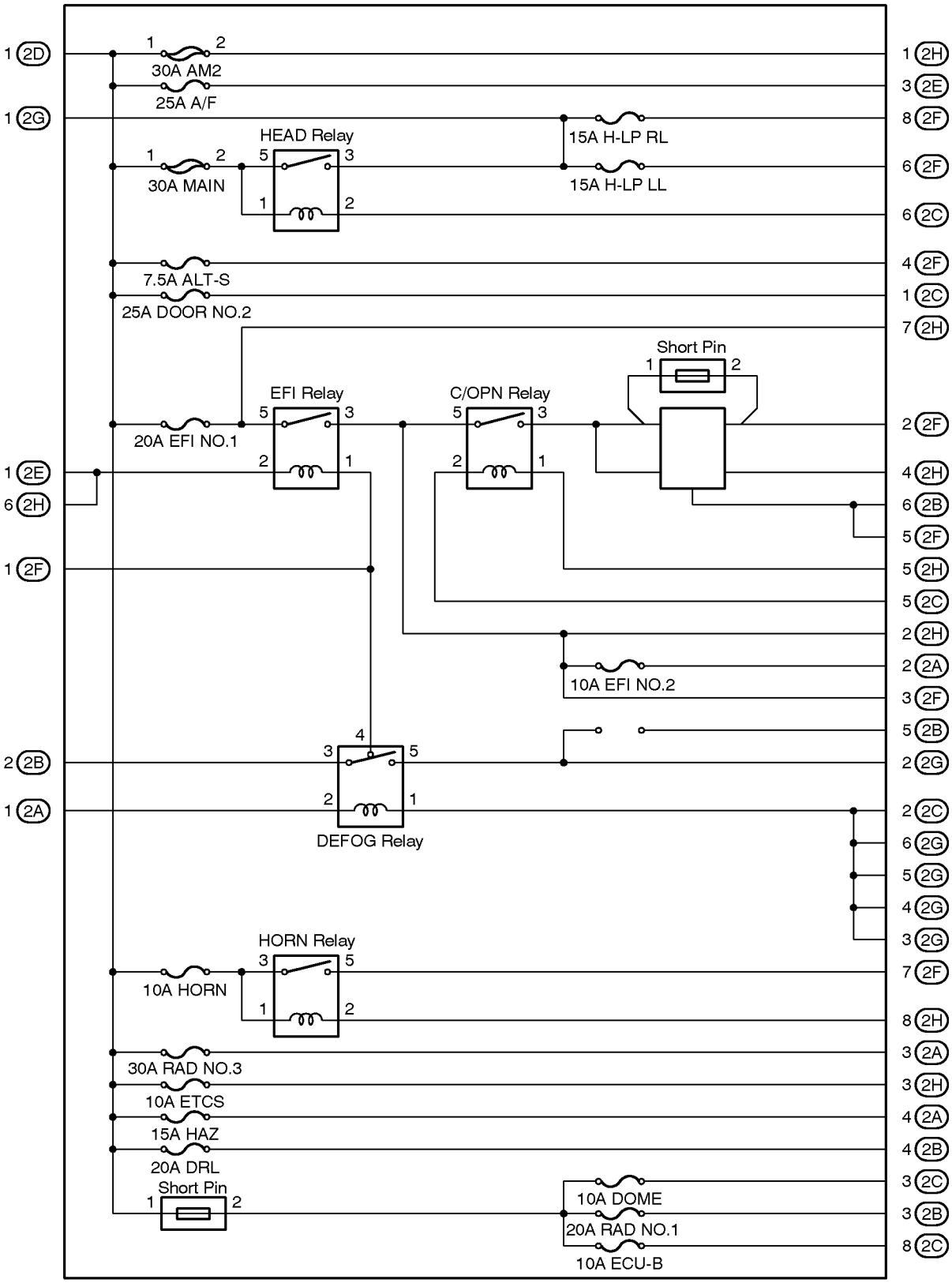

Seat Heater
ECU LH
Seat Heater
ECU RH
Occupant Classification ECU

F RELAY LOCATIONS

: Engine Room J/B	Engine Room Compartment Left (See Page 20)

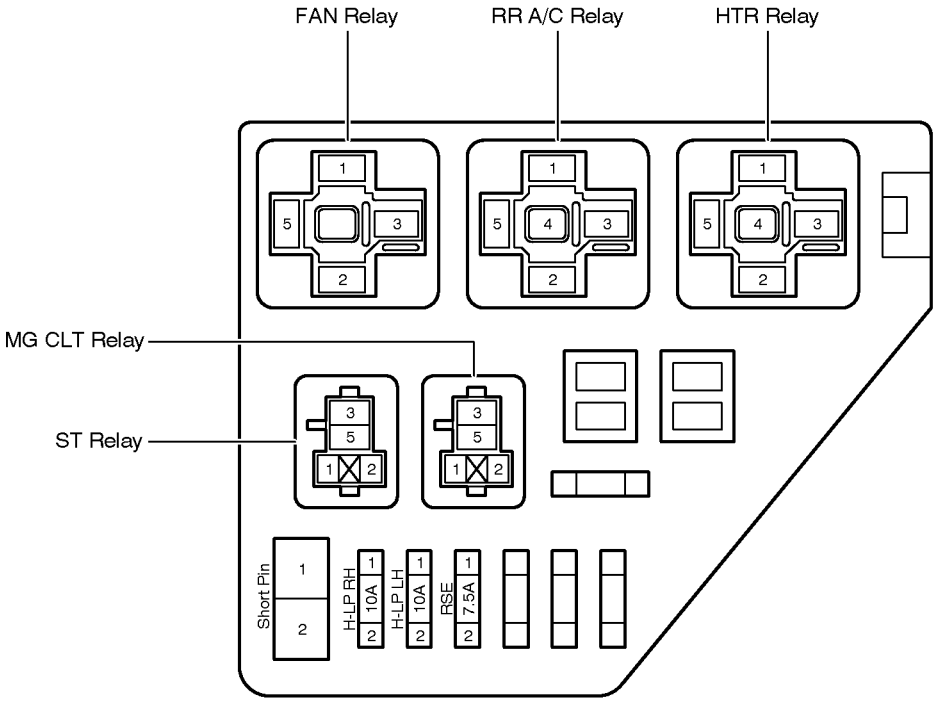


[Engine Room J/B Inner Circuit]

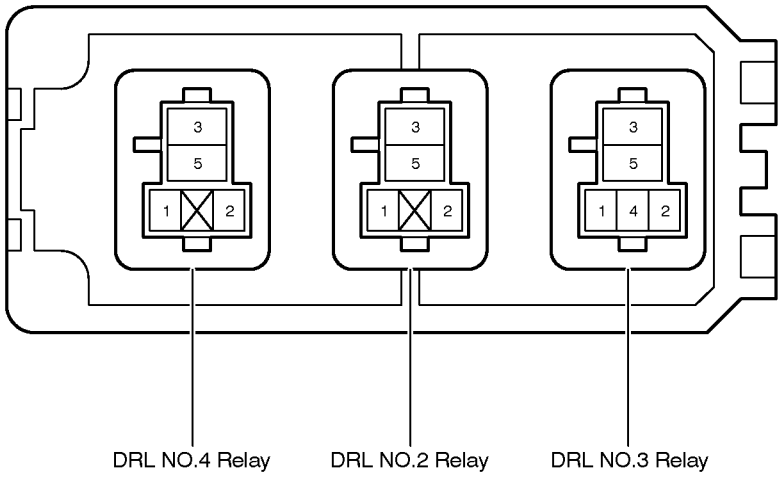


F RELAY LOCATIONS

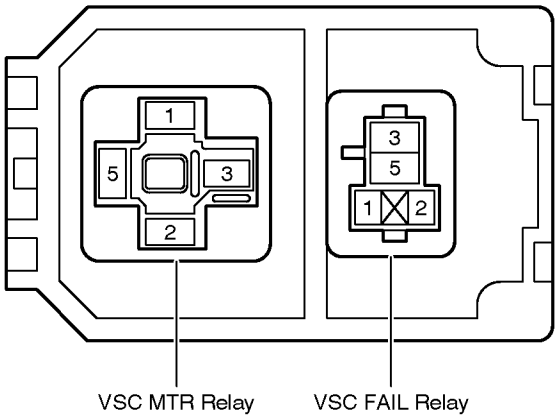
③ : R/B No.3	Engine Room Compartment Left (See Page 20)



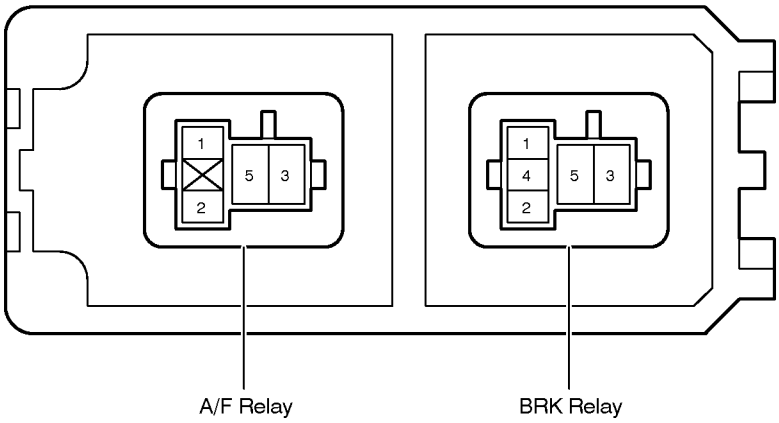
④ : R/B No.4	Engine Room Compartment Left (See Page 20)



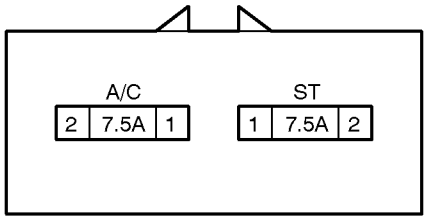
⑤ : R/B No.5	Engine Room Compartment Left (See Page 20)



⑥ : R/B No.6	Engine Room Compartment Left (See Page 20)

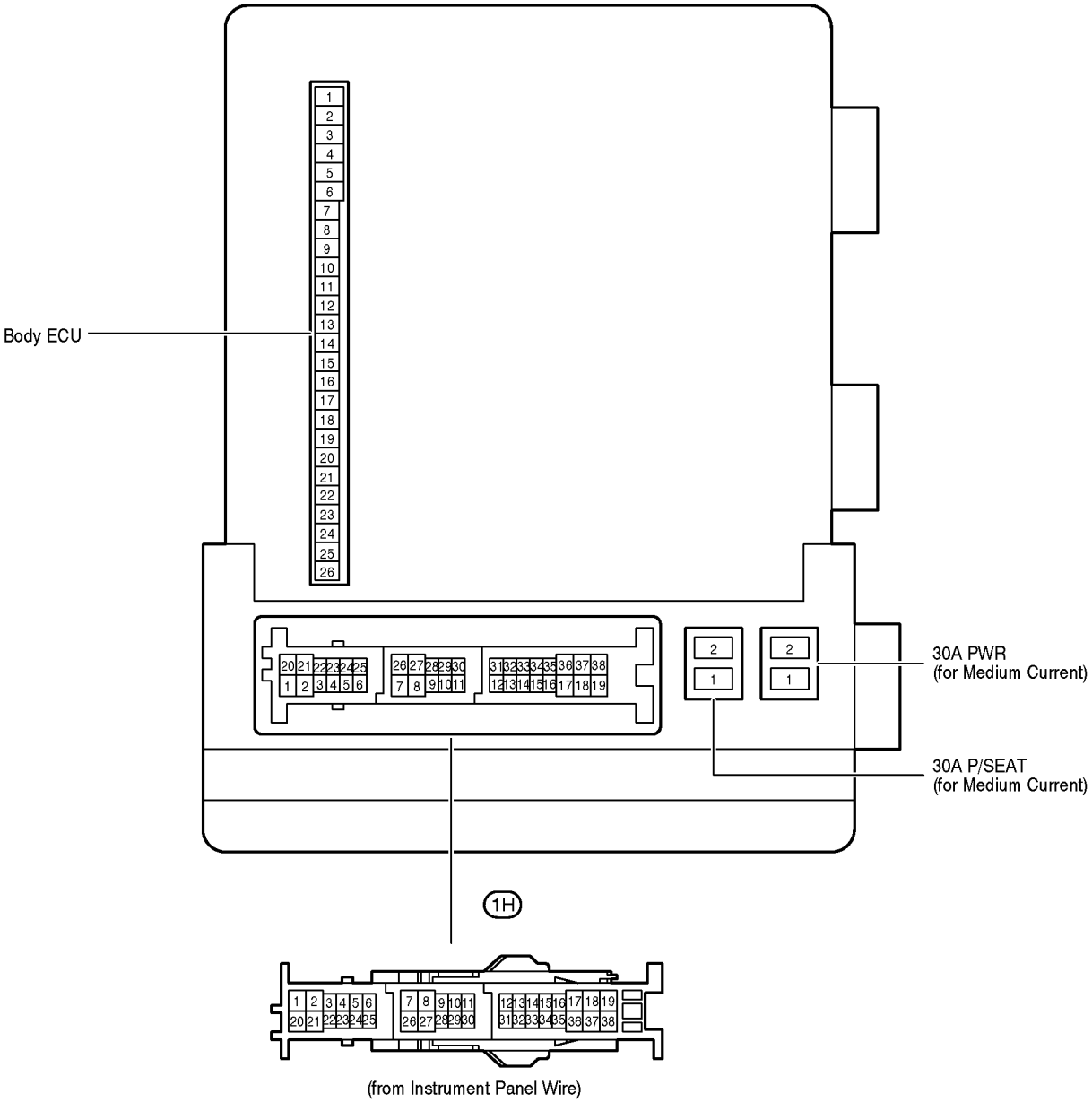


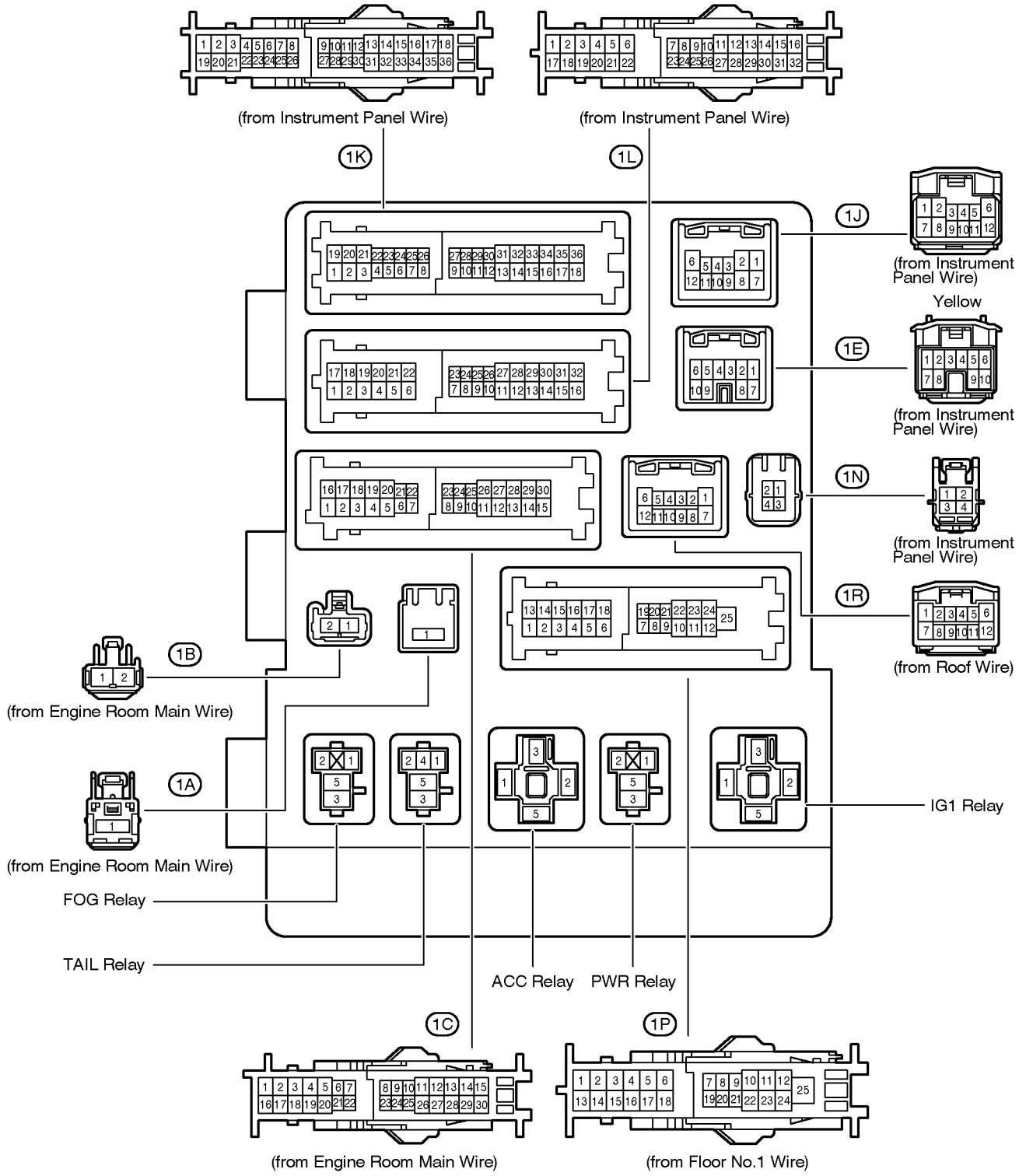
Fuse Box	Right Kick Panel (See Page 20)



F RELAY LOCATIONS

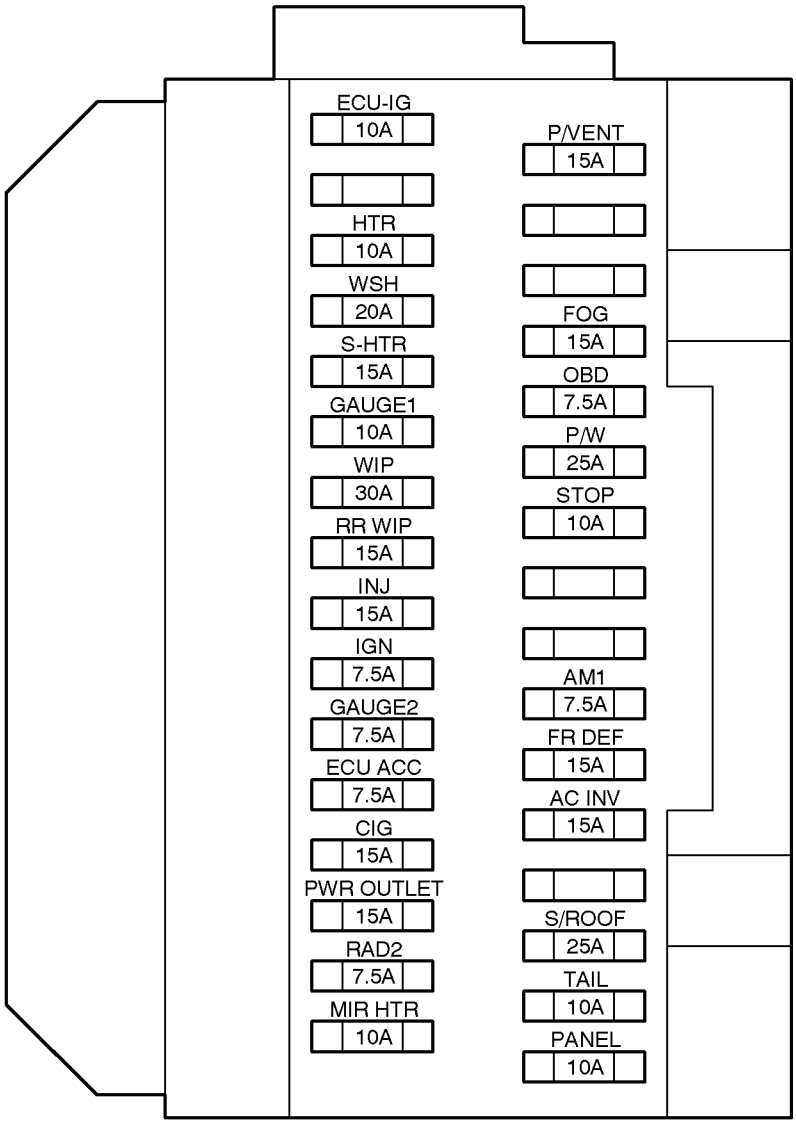
: Driver Side J/B	Lower Finish Panel (See Page 20)



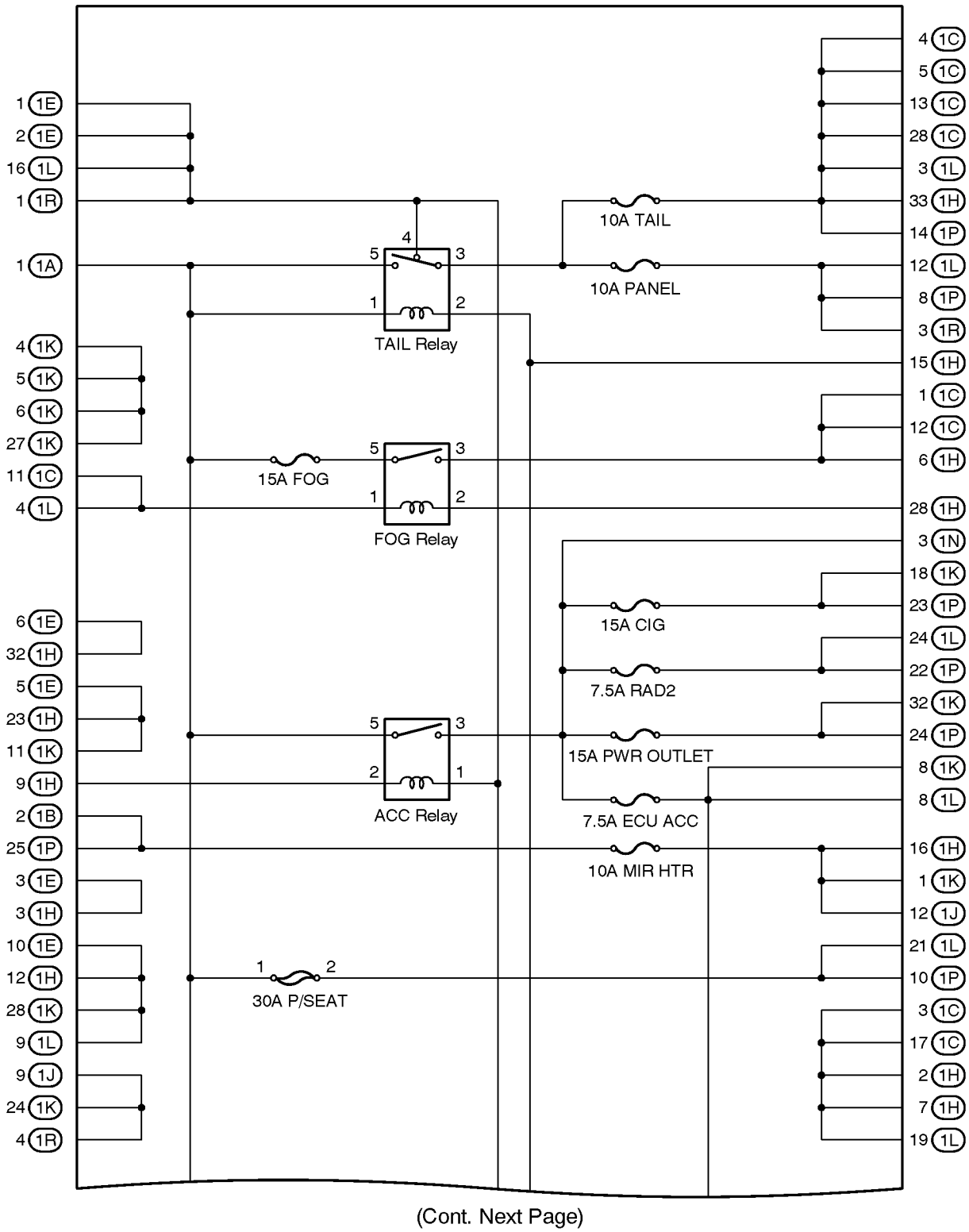

(from Instrument Panel Wire)
(from Instrument Panel Wire)
1K
1L
1J
(from Instrument Panel Wire)
Yellow
1E
(from Instrument Panel Wire)
1N
(from Instrument Panel Wire)
1R
(from Roof Wire)
1B
(from Engine Room Main Wire)
1A
(from Engine Room Main Wire)
IG1 Relay
FOG Relay
TAIL Relay
ACC Relay
PWR Relay
1C
1P
(from Engine Room Main Wire)
(from Floor No.1 Wire)

F RELAY LOCATIONS

: Driver Side J/B	Lower Finish Panel (See Page 20)

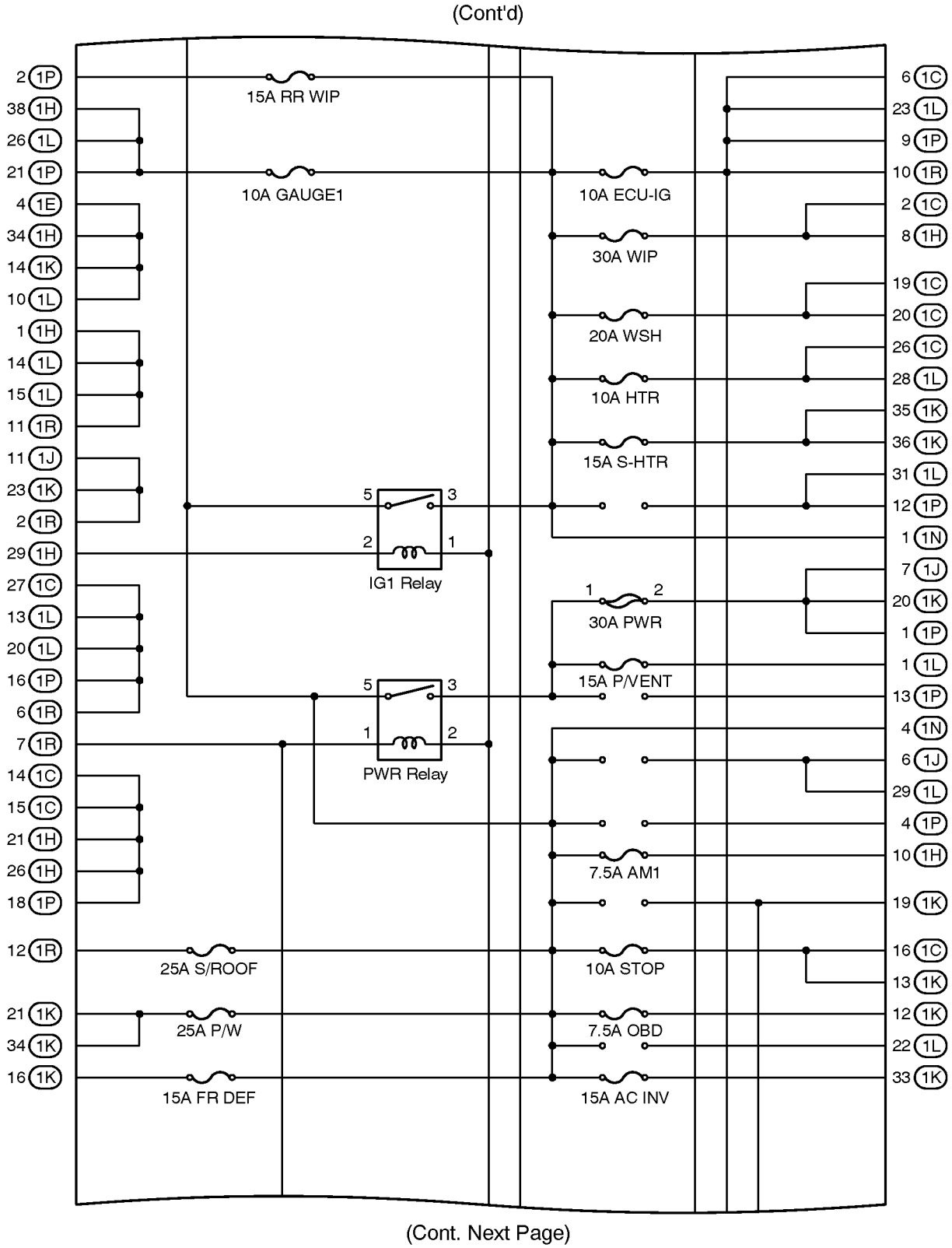


[Driver Side J/B Inner Circuit]

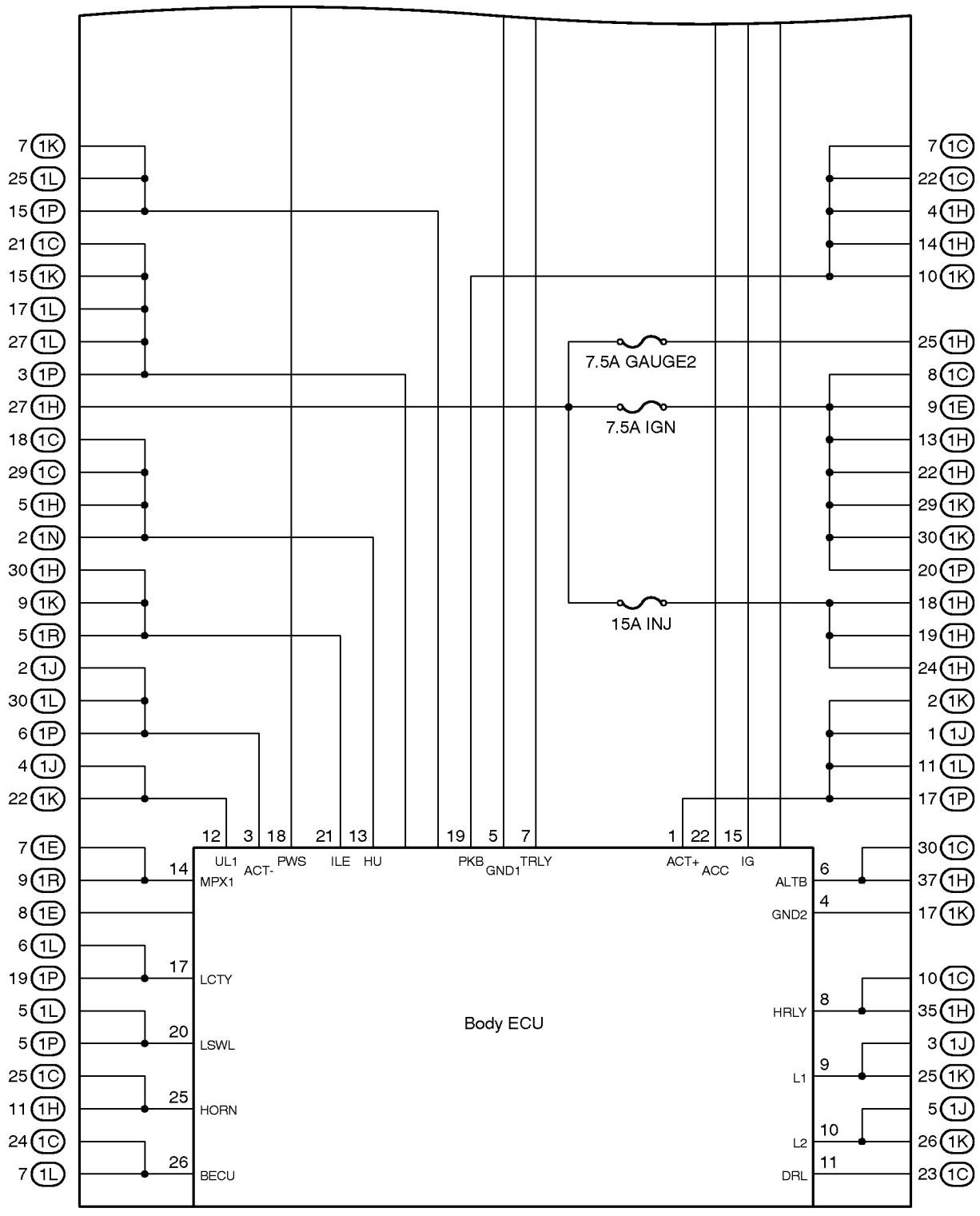


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[Driver Side J/B Inner Circuit]



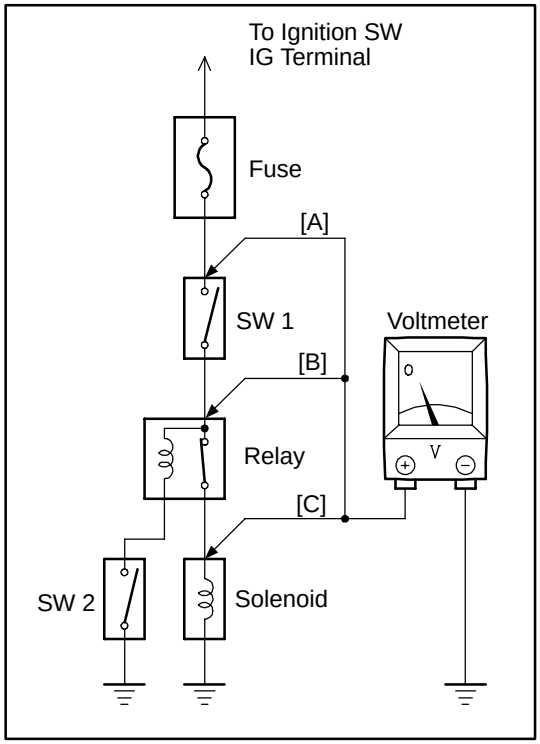
(Cont'd)


7.5A GAUGE2
7.5A IGN
15A INJ
Body ECU
MPX1
LCTY
LSWL
HORN
BECU
UL1
ACT-
PWS
ILE
HU
PKB
GND1
TRLY
ACT+
ACC
IG
ALTB
GND2
HRLY
L1
L2
DRL

2005 SIENNA
ELECTRICAL WIRING DIAGRAM
SYSTEM CIRCUITS

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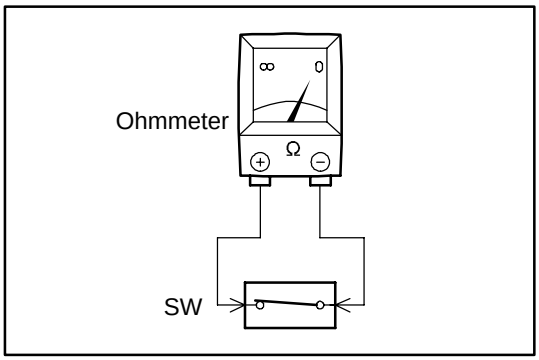


VOLTAGE CHECK

(a) Establish conditions in which voltage is present at the check point.

Example:
[A] - Ignition SW on
[B] - Ignition SW and SW 1 on
[C] - Ignition SW, SW 1 and Relay on (SW 2 off)

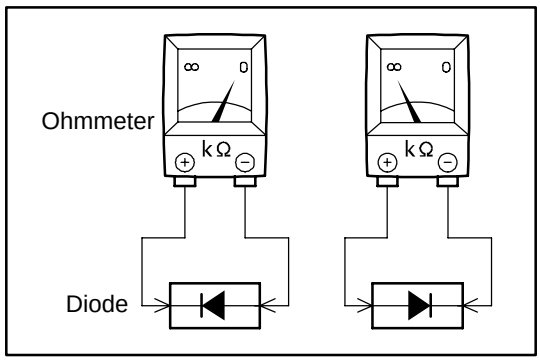
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.
This check can be done with a test light instead of a voltmeter.



CONTINUITY AND RESISTANCE CHECK

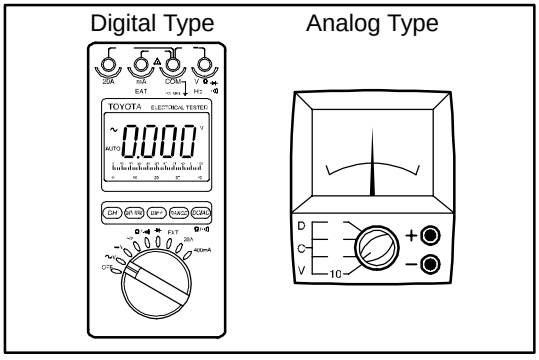
(a) Disconnect the battery terminal or wire so there is no voltage between the check points.

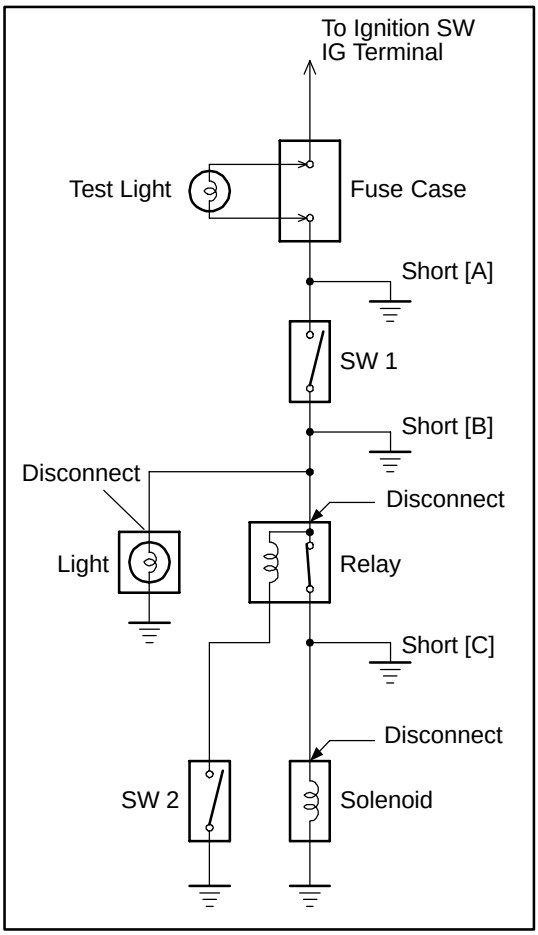
(b) Contact the two leads of an ohmmeter to each of the check points.



If the circuit has diodes, reverse the two leads and check again.
When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.
When contacting the two leads in reverse, there should be no continuity.

(c) Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting of the electrical circuit.





FINDING A SHORT CIRCUIT

(a) Remove the blown fuse and disconnect all loads of the fuse.

(b) Connect a test light in place of the fuse.

(c) Establish conditions in which the test light comes on.

Example:

[A] - Ignition SW on
[B] - Ignition SW and SW 1 on
[C] - Ignition SW, SW 1 and Relay on (Connect the Relay) and SW 2 off (or Disconnect SW 2)

(d) Disconnect and reconnect the connectors while watching the test light.
The short lies between the connector where the test light stays lit and the connector where the light goes out.

(e) Find the exact location of the short by lightly shaking the problem wire along the body.

CAUTION:

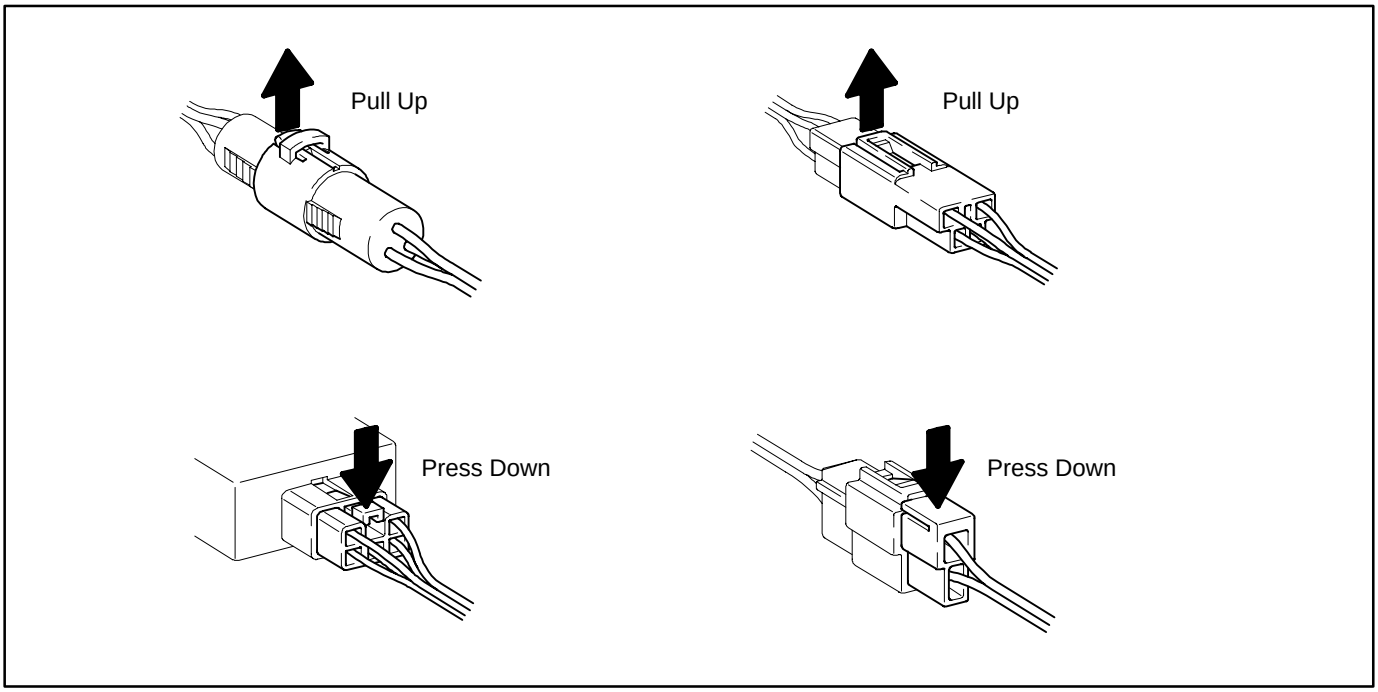
(a) Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

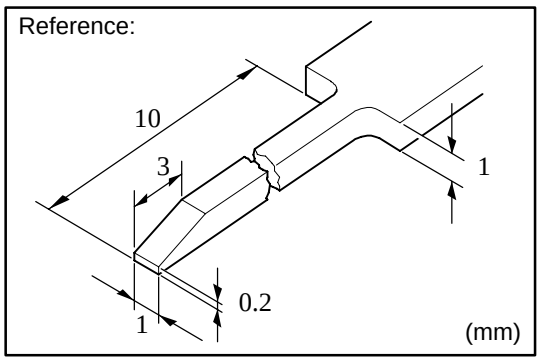
(b) When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).

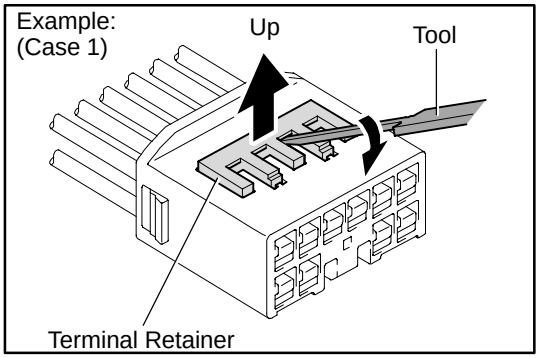
DISCONNECTION OF MALE AND FEMALE CONNECTORS

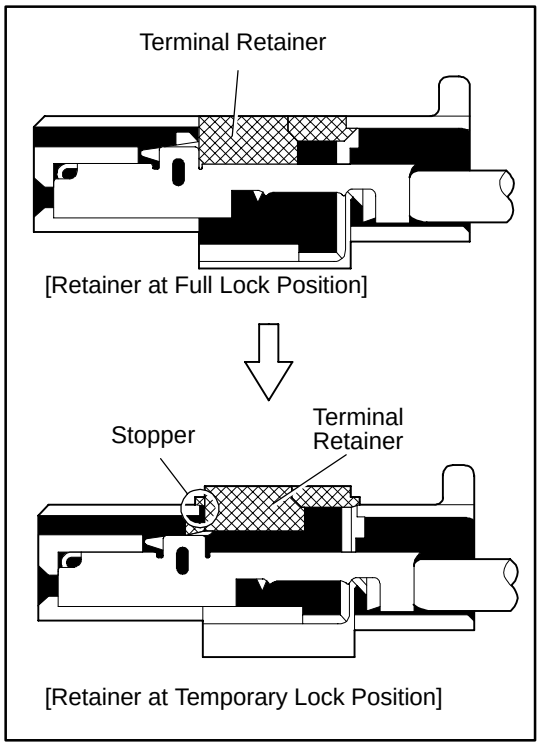
To pull apart the connectors, pull on the connector itself, not the wire harness.

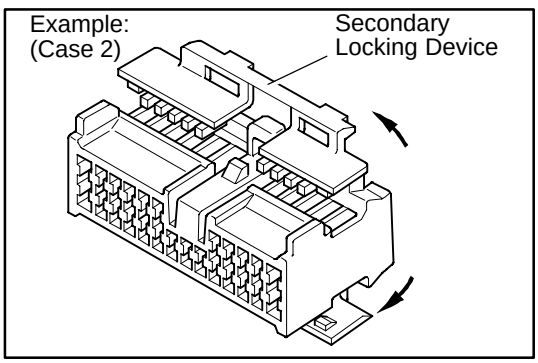
HINT : Check to see what kind of connector you are disconnecting before pulling apart.











HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

1. PREPARE THE SPECIAL TOOL

   HINT : To remove the terminal from the connector, please construct and use the special tool or like object shown on the left.

2. DISCONNECT CONNECTOR

3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

   (a) Locking device must be disengaged before the terminal locking clip can be released and the terminal removed from the connector.

   (b) Use a special tool or the terminal pick to unlock the secondary locking device or terminal retainer.

   NOTICE:
   Do not remove the terminal retainer from connector body.

   [A] For Non-Waterproof Type Connector

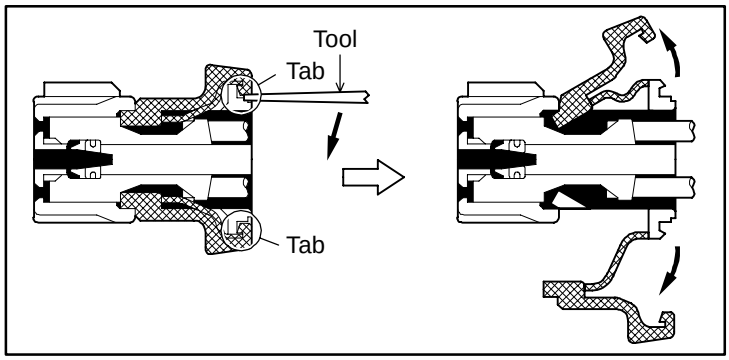
   HINT : The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

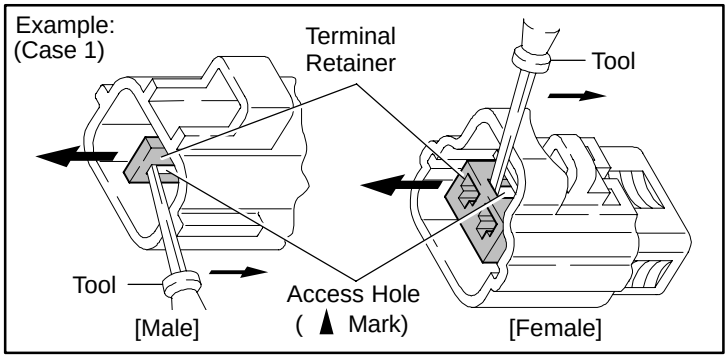
   "Case 1"

   Raise the terminal retainer up to the temporary lock position.

   "Case 2"

   Open the secondary locking device.



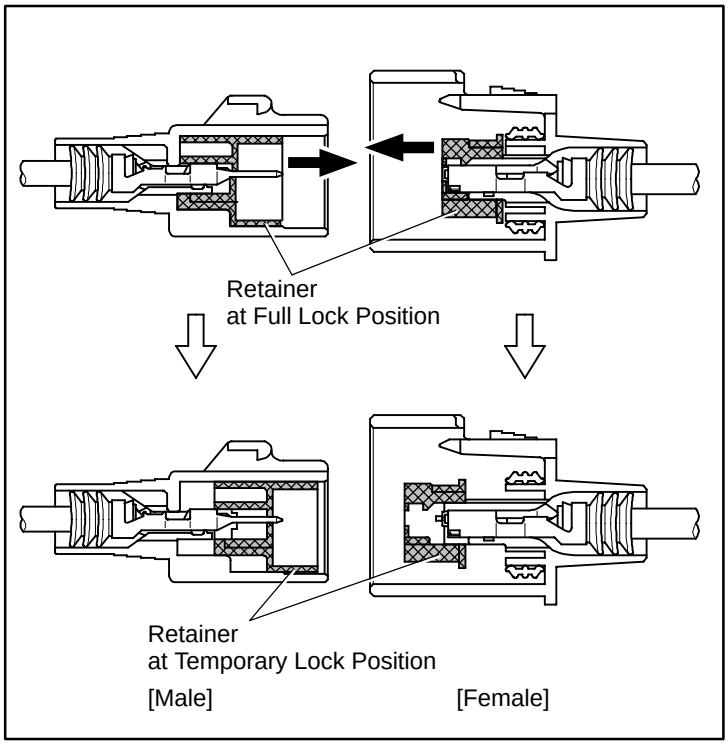


[B] For Waterproof Type Connector

HINT : Terminal retainer color is different according to connector body.

Example:

Terminal Retainer	: Connector Body
Black or White	: Gray
Black or White	: Dark Gray
Gray or White	: Black

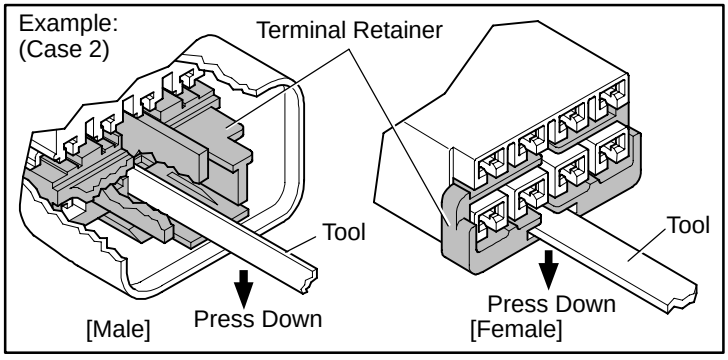


”Case 1”

Type where terminal retainer is pulled up to the temporary lock position (Pull Type).

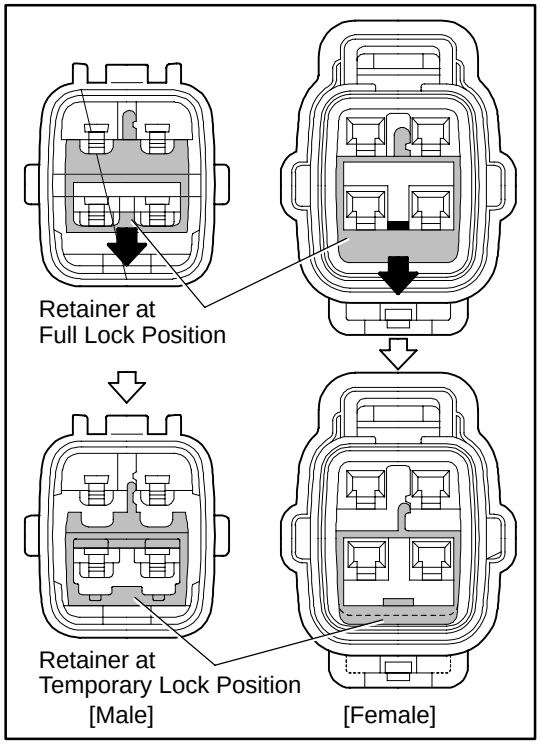
Insert the special tool into the terminal retainer access hole (▲Mark) and pull the terminal retainer up to the temporary lock position.

HINT : The needle insertion position varies according to the connector’s shape (Number of terminals etc.), so check the position before inserting it.

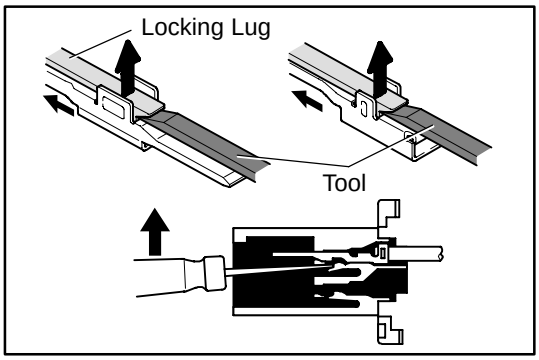


”Case 2”

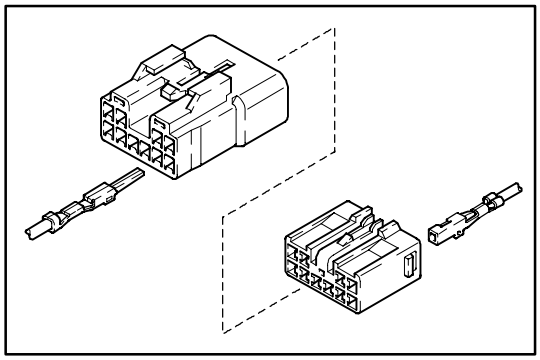
Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.



Push the terminal retainer down to the temporary lock position.



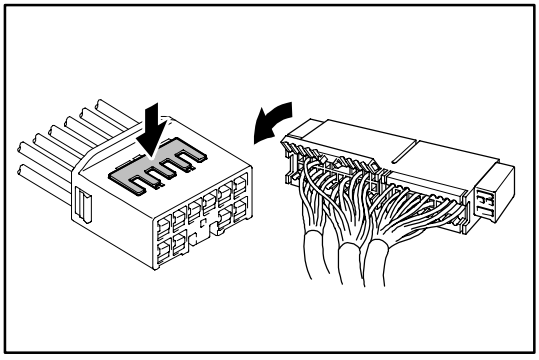
(c) Release the locking lug from terminal and pull the terminal out from rear.



4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

HINT:
1. Make sure the terminal is positioned correctly.
2. Insert the terminal until the locking lug locks firmly.
3. Insert the terminal with terminal retainer in the temporary lock position.



(b) Push the secondary locking device or terminal retainer in to the full lock position.

5. CONNECT CONNECTOR