RX 300
ELECTRICAL WIRING DIAGRAM
SYSTEM CIRCUITS

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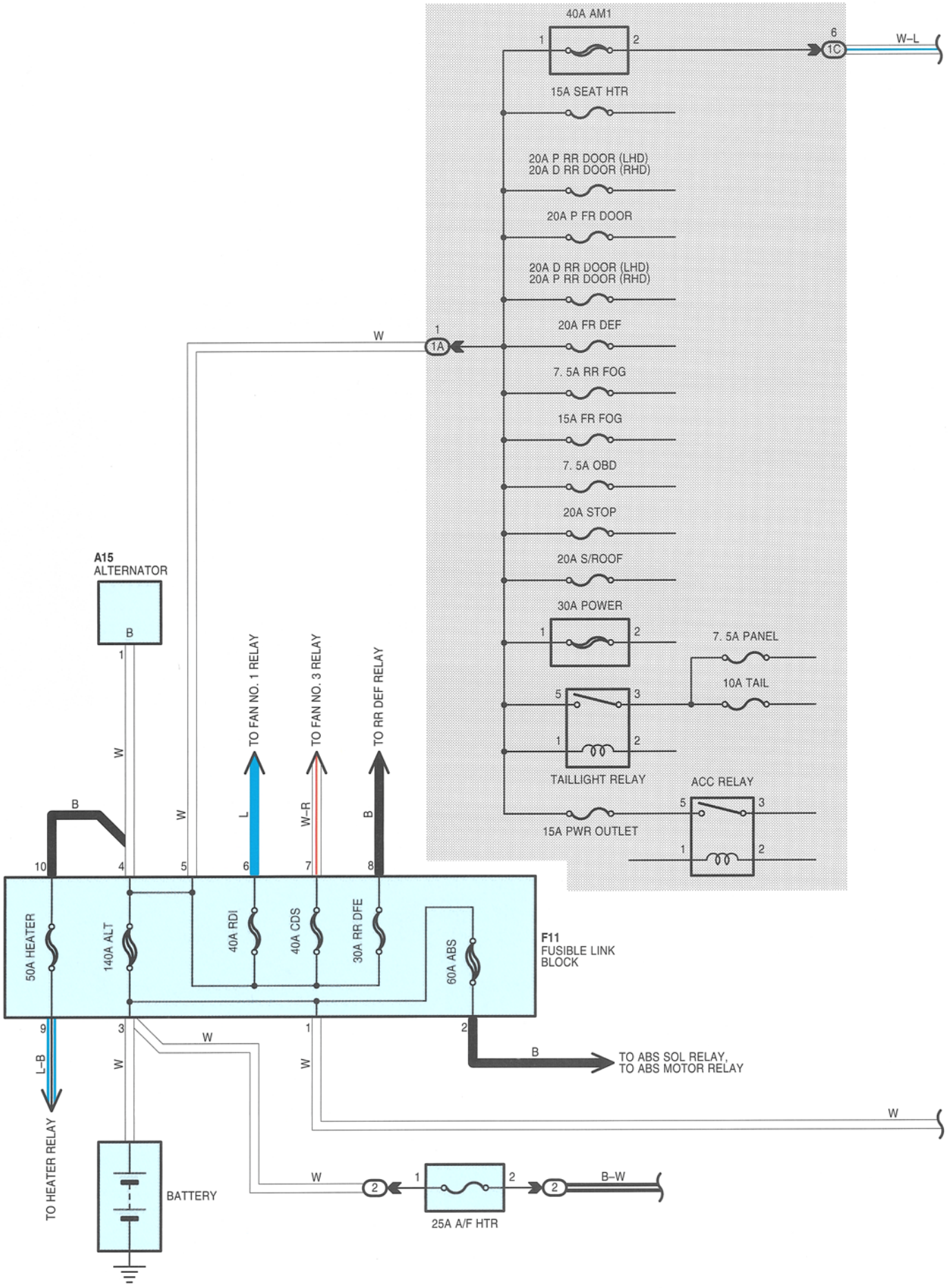
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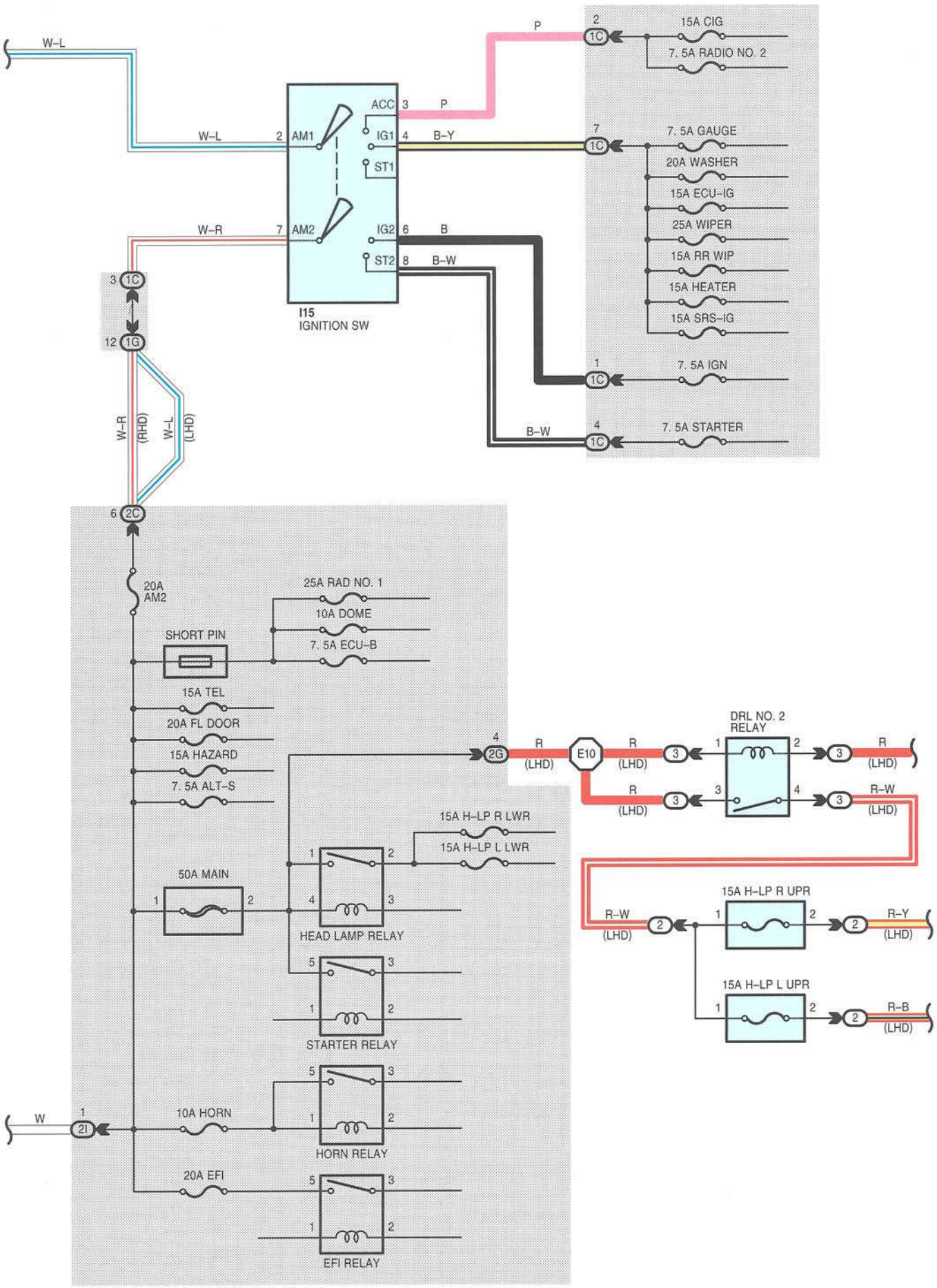
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VSC	360
ZIGARETTENANZÜNDER	200

POWER SOURCE




W-L
W-L
2 AM1
W-R
7 AM2
ACC 3 P
IG1 4 B-Y
ST1
IG2 6 B
ST2 8 B-W
I15
IGNITION SW
3 1C
12 1G
W-R (RHD)
W-L (LHD)
6 2C
P
2 1C
15A CIG
7. 5A RADIO NO. 2
7 1C
7. 5A GAUGE
20A WASHER
15A ECU-IG
25A WIPER
15A RR WIP
15A HEATER
15A SRS-IG
1 1C
7. 5A IGN
B-W
4 1C
7. 5A STARTER
20A AM2
25A RAD NO. 1
10A DOME
7. 5A ECU-B
SHORT PIN
15A TEL
20A FL DOOR
15A HAZARD
7. 5A ALT-S
50A MAIN
15A H-LP R LWR
15A H-LP L LWR
HEAD LAMP RELAY
STARTER RELAY
10A HORN
HORN RELAY
20A EFI
EFI RELAY
W
1 2I
4 2G
R (LHD)
E10
DRL NO. 2 RELAY
R-W (LHD)
15A H-LP R UPR
R-Y (LHD)
15A H-LP L UPR
R-B (LHD)

POWER SOURCE

SERVICE HINTS

HEAD LAMP RELAY

1-2 : Closed with the light control SW at **HEAD** position or dimmer SW at **FLASH** position

TAILLIGHT RELAY

5-3 : Closed with the light control SW at **TAIL** or **HEAD** position

I15 IGNITION SW

2-3 : Closed with the ignition SW at **ACC** or **ON** position
2-4 : Closed with the ignition SW at **ON** or **ST** position
7-6 : Closed with the ignition SW at **ON** or **ST** position
7-8 : Closed with the ignition SW at **ST** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A15	90 (LHD)	F11	90 (LHD)	I15	93 (LHD)
	98 (RHD)		98 (RHD)		101 (RHD)

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	88	R/B No.2 (Engine Compartment Left)
3	88	R/B No.3 (Engine Compartment Front Left)

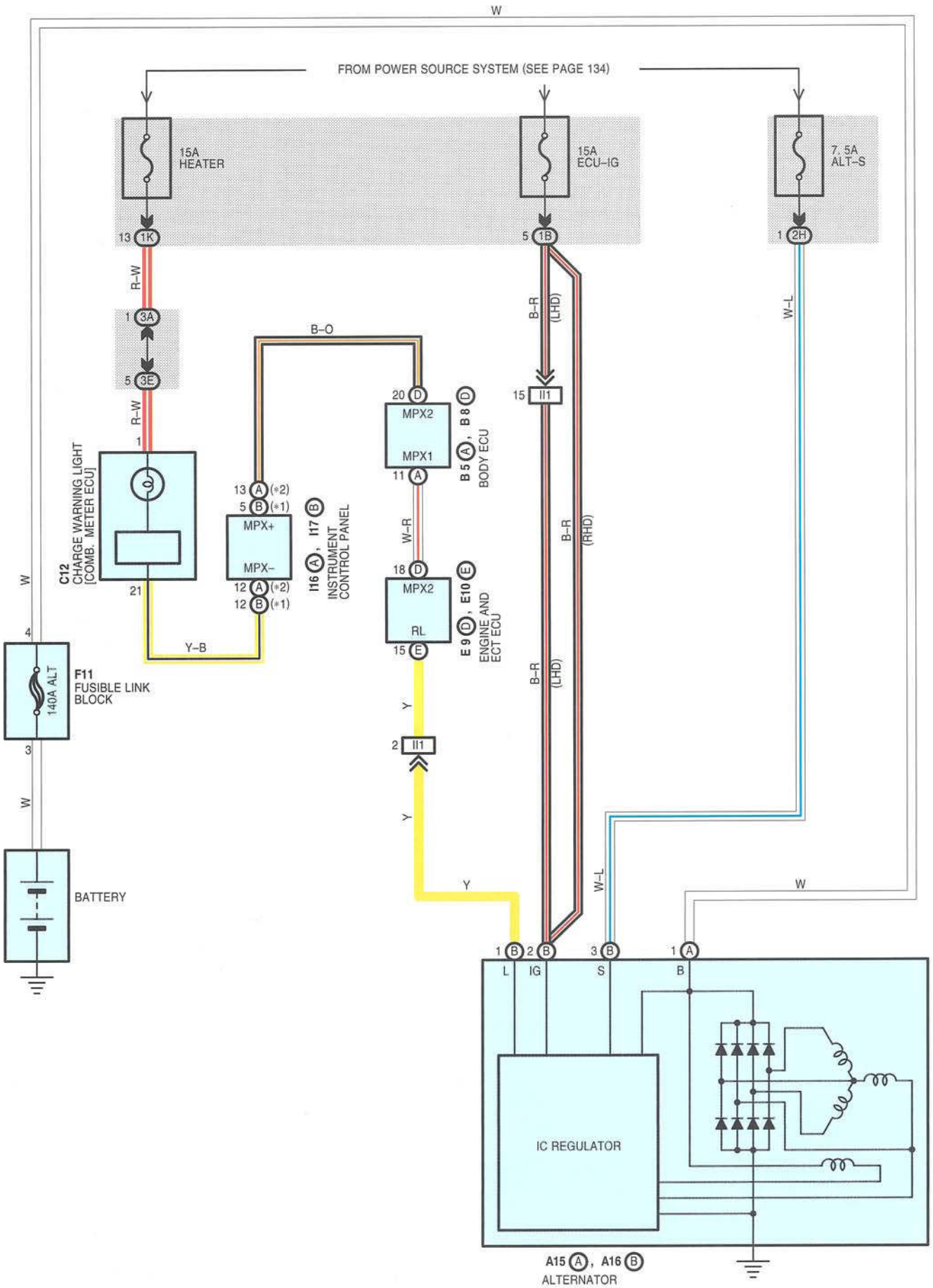
▭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1C	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1G	78 (LHD)	
	80 (RHD)	
2C	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2G	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2I		

⬡ : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	106 (LHD)	Engine Room Main Wire			

* 1 : RHD EUROPE, LHD
* 2 : EXCEPT *1



SERVICE HINTS

A16 (B) ALTERNATOR

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

(B) 2-GROUND : **0-4** volts with the ignition SW at **ON** position and engine not running

○ : PARTS LOCATION

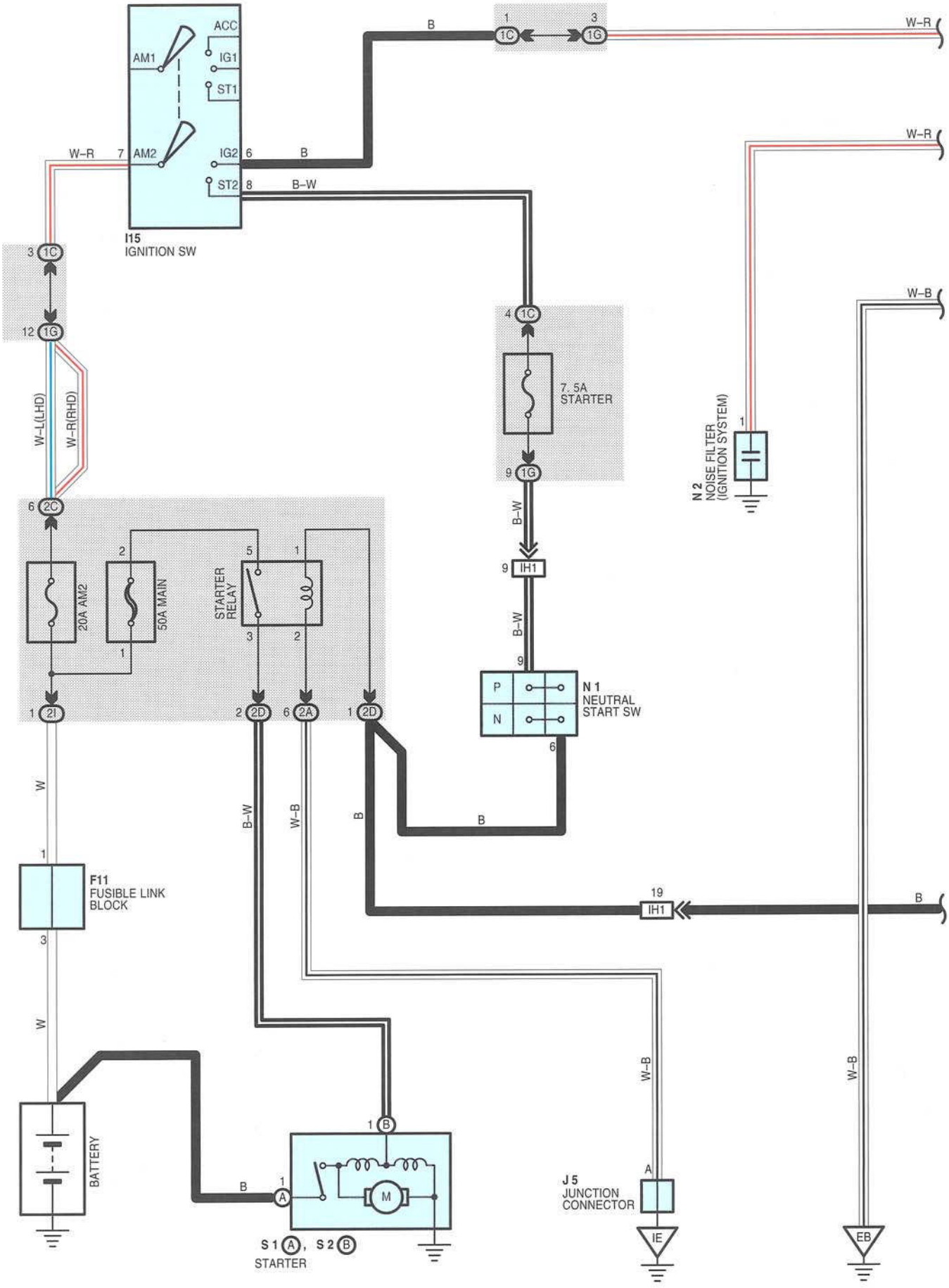
Code		See Page	Code		See Page	Code		See Page
A15	A	90 (LHD)	B8	D	100 (RHD)	F11		90 (LHD)
		98 (RHD)	C12		92 (LHD)			98 (RHD)
A16	B	90 (LHD)			100 (RHD)	I16	A	101 (RHD)
		98 (RHD)	E9	D	92 (LHD)	I17	B	93 (LHD)
B5	A	92 (LHD)			100 (RHD)			101 (RHD)
		100 (RHD)	E10	E	92 (LHD)			
B8	D	92 (LHD)			100 (RHD)			

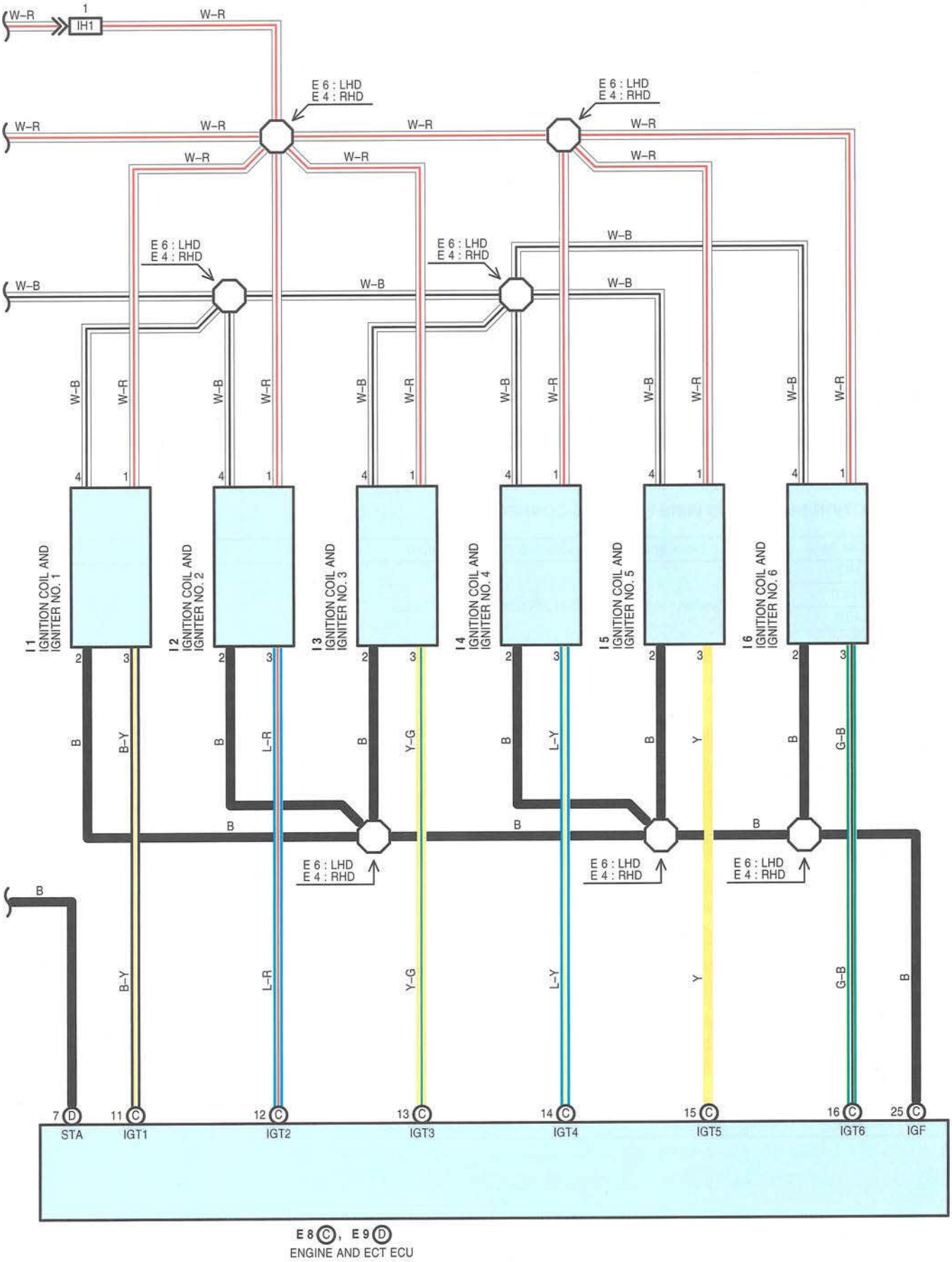
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
2H	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
	120 (RHD)	


ACC
AM1
IG1
ST1
AM2
IG2
ST2
I15
IGNITION SW
B
W-R
B-W
1C
1G
2C
2I
2D
2A
IH1
7. 5A
STARTER
20A AM2
50A MAIN
STARTER
RELAY
W-L(LHD)
W-R(RHD)
W-B
B-W
N 1
NEUTRAL
START SW
N 2
NOISE FILTER
(IGNITION SYSTEM)
F11
FUSIBLE LINK
BLOCK
BATTERY
S 1 A , S 2 B
STARTER
J 5
JUNCTION
CONNECTOR
IE
EB


W-R
1
IH1
E 6 : LHD
E 4 : RHD
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
B-Y
L-R
Y-G
L-Y
Y
G-B
7 D STA
11 C IGT1
12 C IGT2
13 C IGT3
14 C IGT4
15 C IGT5
16 C IGT6
25 C IGF
E 8 C , E 9 D
ENGINE AND ECT ECU

STARTING AND IGNITION

SERVICE HINTS

I15 IGNITION SW

7–6 : Closed with the ignition SW at **ON** or **ST** position
7–8 : Closed with the ignition SW at **ST** position

N1 NEUTRAL START SW

5–6 : Closed with the A/T shift lever in **P** or **N** position

S1 (A), S2 (B) STARTER

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

: PARTS LOCATION

Code		See Page	Code	See Page	Code		See Page
E8	C	92 (LHD)	I3	91 (LHD)	J5		93 (LHD)
		100 (RHD)		99 (RHD)			101 (RHD)
E9	D	92 (LHD)	I4	91 (LHD)	N1		91 (LHD)
		100 (RHD)		99 (RHD)			99 (RHD)
F11		90 (LHD)	I5	91 (LHD)	N2		91 (LHD)
		98 (RHD)		99 (RHD)			99 (RHD)
I1		91 (LHD)	I6	91 (LHD)	S1	A	91 (LHD)
		99 (RHD)		99 (RHD)			99 (RHD)
I2		91 (LHD)	I15	93 (LHD)	S2	B	91 (LHD)
		99 (RHD)		101 (RHD)			99 (RHD)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1G	78 (LHD)	
	80 (RHD)	
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2C		
2D	82	Engine Wire and Engine Room J/B (Engine Compartment Left)
2I	82	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)
IH1	110 (LHD)	Engine Wire and Cowl Wire (Behind the Glove Box)
	120 (RHD)	

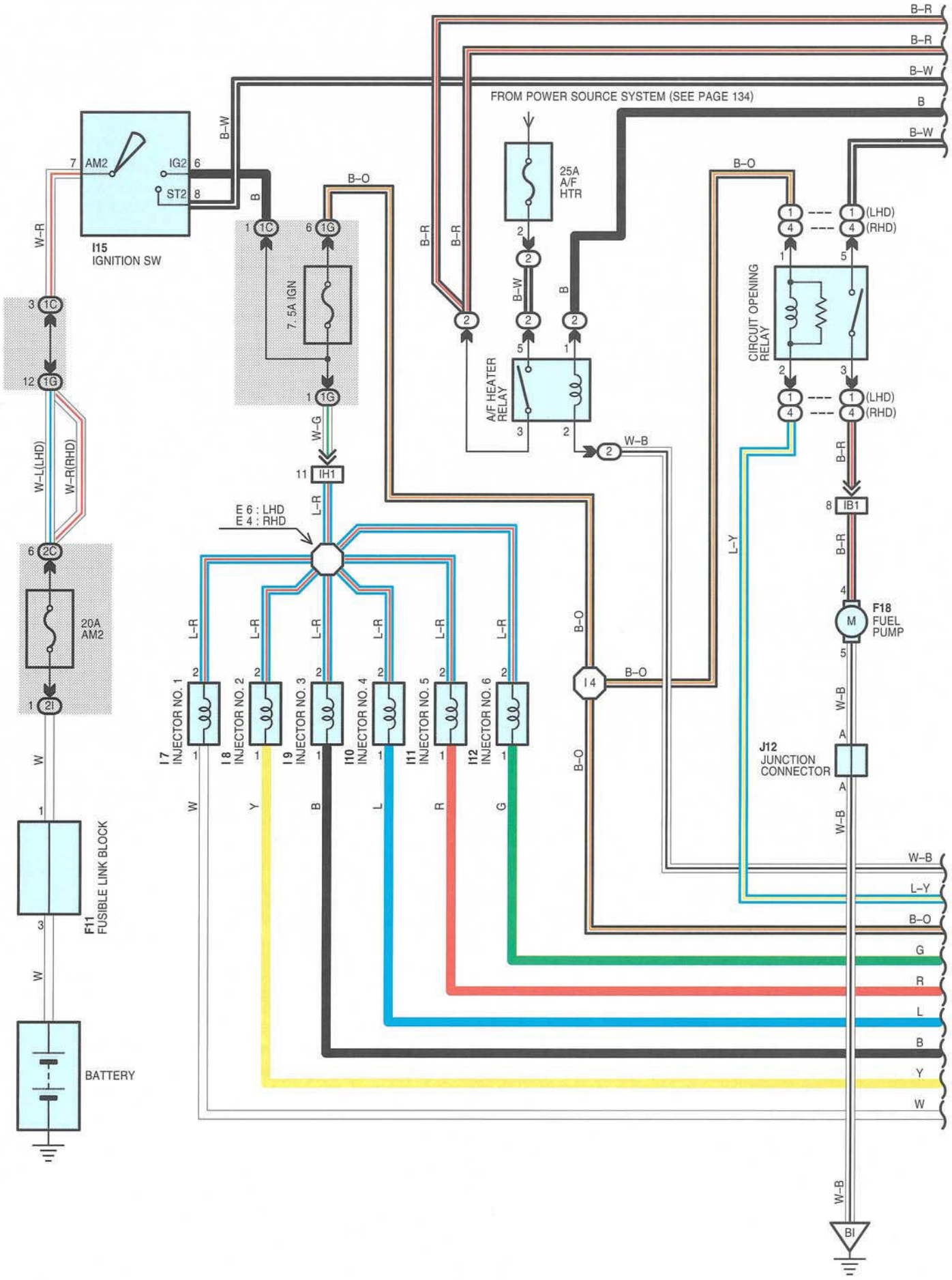
: GROUND POINTS

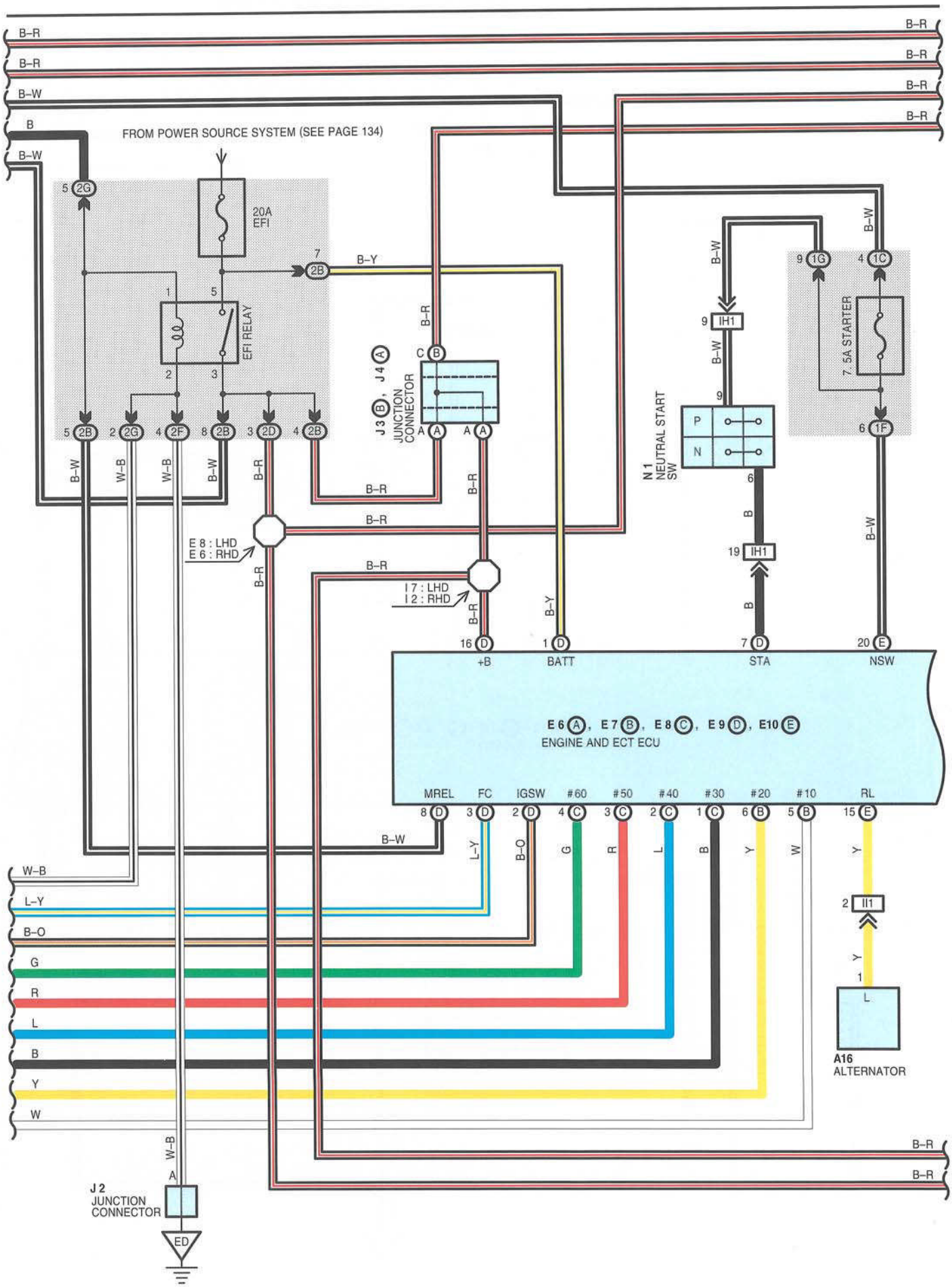
Code	See Page	Ground Points Location
EB	106 (LHD)	Surge Tank RH
	116 (RHD)	
IE	108 (LHD)	Cowl Side Panel LH
	118 (RHD)	

: SPLICE POINTS

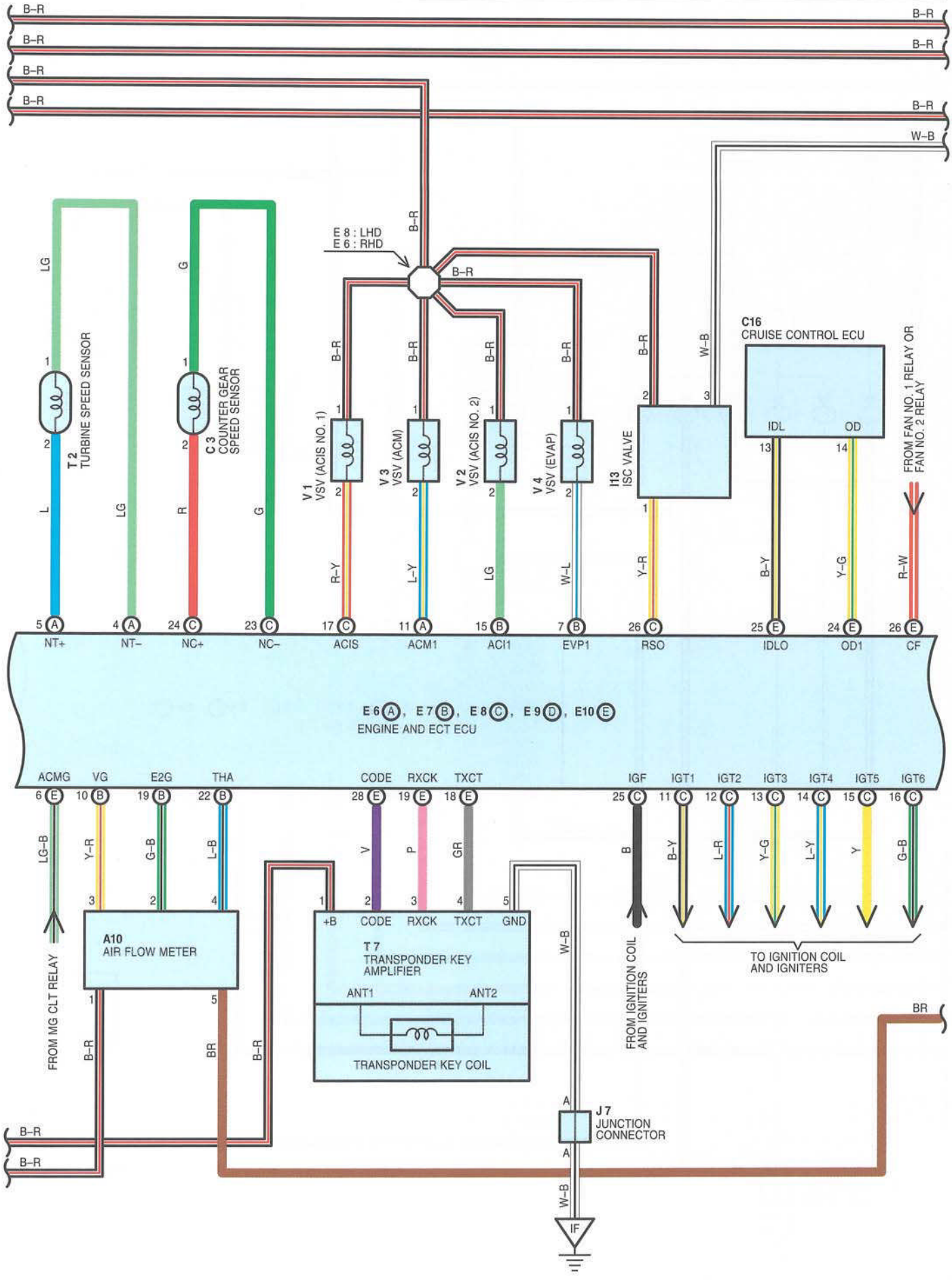
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E4	116 (RHD)	Engine Wire	E6	106 (LHD)	Engine Wire

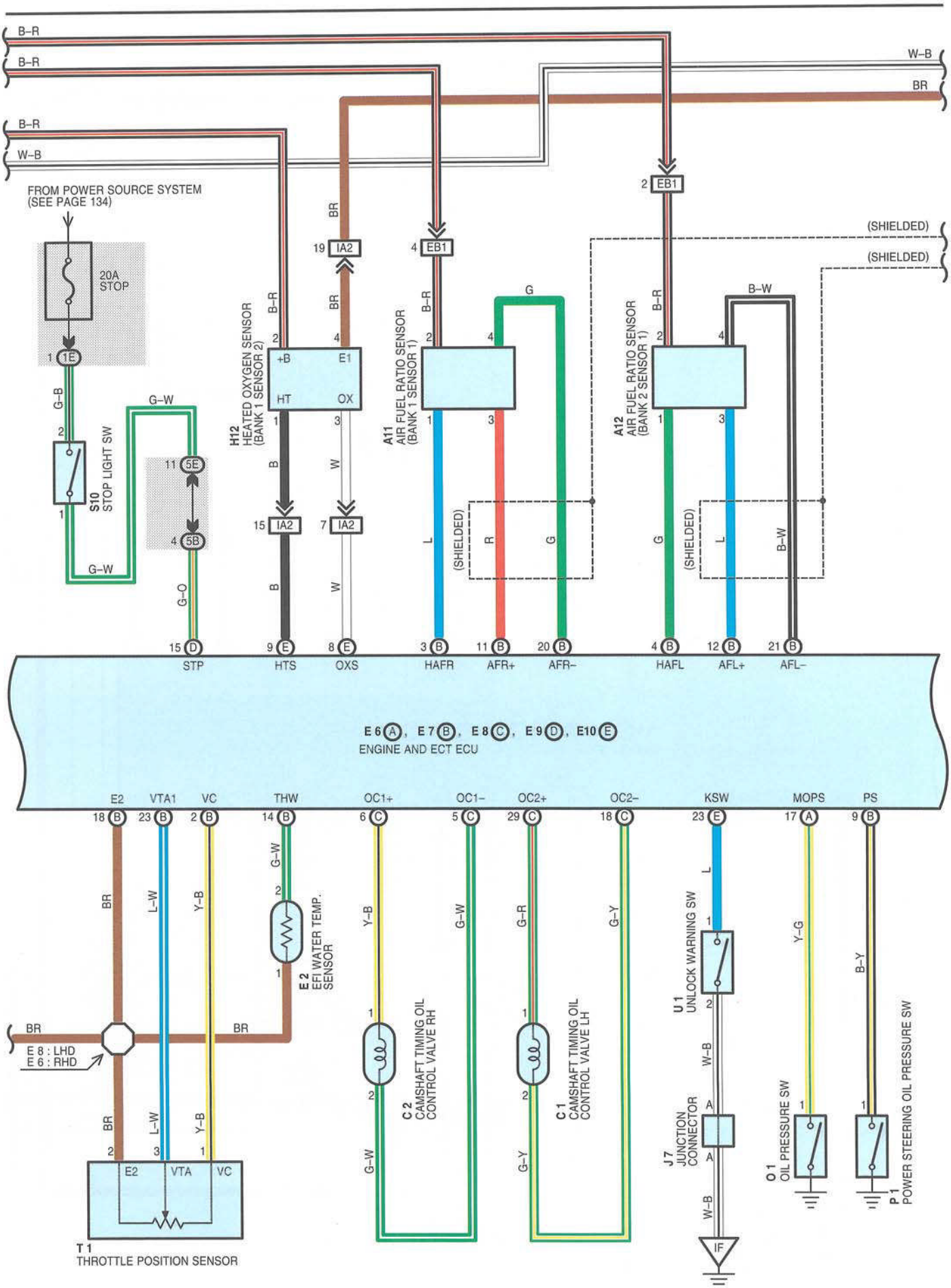
ENGINE CONTROL AND ENGINE IMMOBILISER SYSTEM



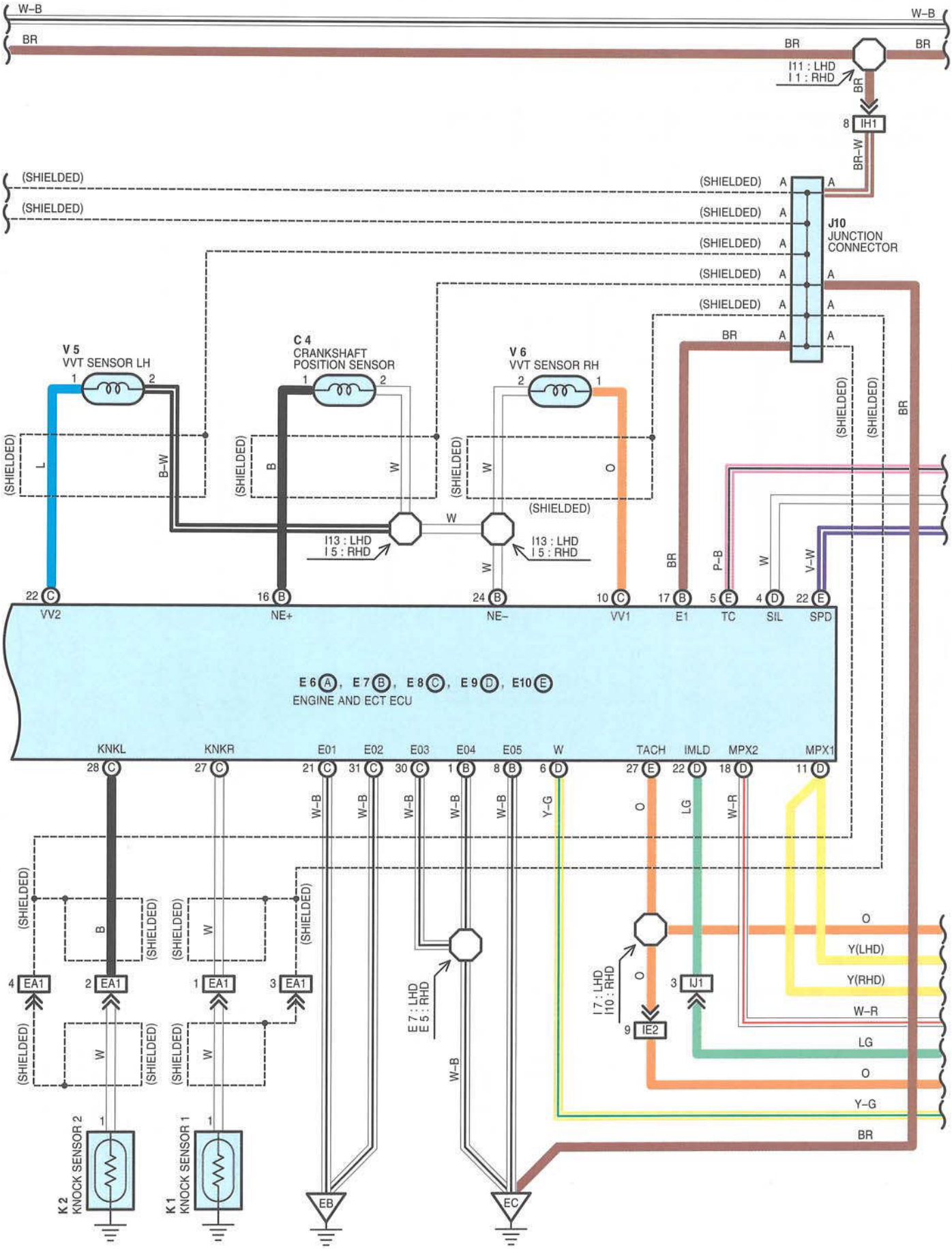

B–R
B–W
B
FROM POWER SOURCE SYSTEM (SEE PAGE 134)
5 2G
20A EFI
7 2B
B–Y
1
5
EFI RELAY
2
3
5 2B
2 2G
4 2F
8 2B
3 2D
4 2B
B–W
W–B
W–B
B–W
B–R
B–R
J3 B, J4 A
JUNCTION CONNECTOR
C B
A A
A A
B–R
B–R
B–R
E 8 : LHD
E 6 : RHD
B–R
I 7 : LHD
I 2 : RHD
B–R
B–Y
16 D
+B
1 D
BATT
B–W
9 IH1
B–W
9
N 1
NEUTRAL START SW
P
N
6
B
19 IH1
B
7 D
STA
9 1G
4 1C
7.5A STARTER
6 1F
20 E
NSW
E6 A, E7 B, E8 C, E9 D, E10 E
ENGINE AND ECT ECU
MREL
FC
IGSW
#60
#50
#40
#30
#20
#10
RL
8 D
3 D
2 D
4 C
3 C
2 C
1 C
6 B
5 B
15 E
B–W
L–Y
B–O
G
R
L
B
Y
W
Y
2 I1
Y
1
L
A16
ALTERNATOR
W–B
W–B
B–R
B–R
A
J2
JUNCTION CONNECTOR
ED

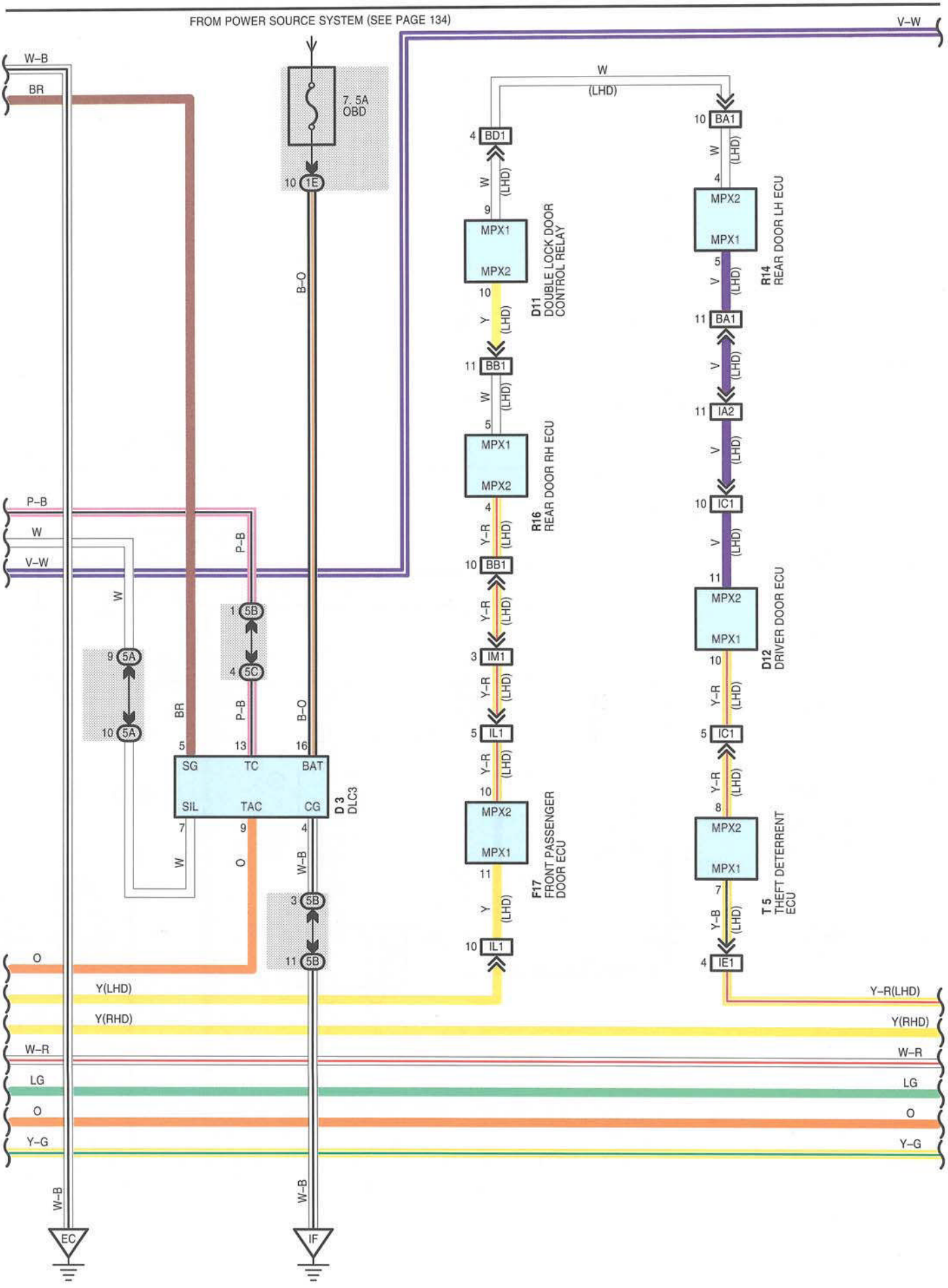
ENGINE CONTROL AND ENGINE IMMOBILISER SYSTEM



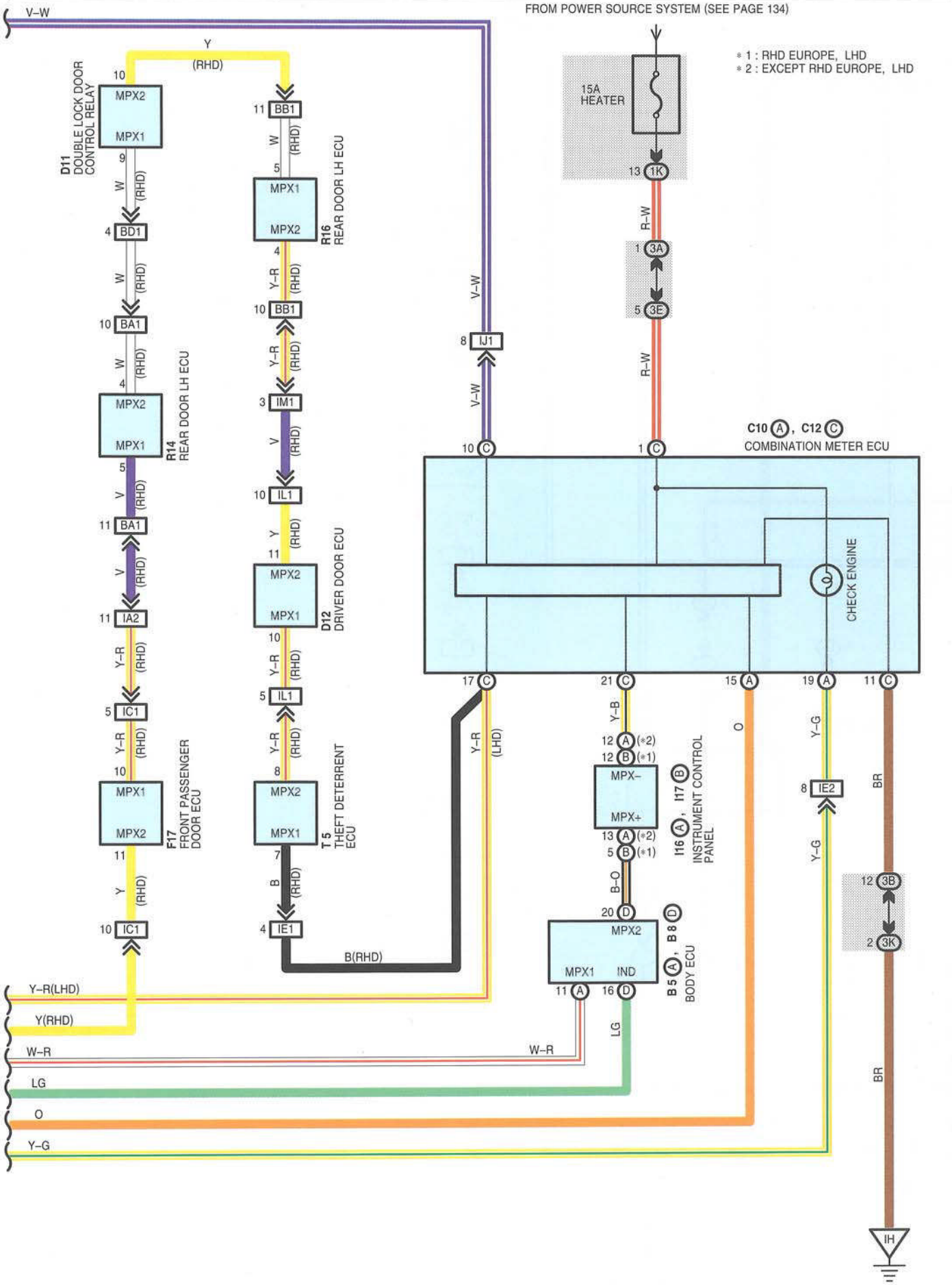

B–R
B–R
B–R
W–B
W–B
BR
FROM POWER SOURCE SYSTEM
(SEE PAGE 134)
20A
STOP
1E
G–B
G–W
S10
STOP LIGHT SW
11 5E
4 5B
G–W
G–O
15 D
STP
H12
HEATED OXYGEN SENSOR
(BANK 1 SENSOR 2)
B–R
2
+B
E1
HT
OX
1
3
B
W
15 IA2
7 IA2
9 E
8 E
HTS
OXS
19 IA2
BR
4 EB1
A11
AIR FUEL RATIO SENSOR
(BANK 1 SENSOR 1)
L
R
G
(SHIELDED)
3 B
11 B
20 B
HAFR
AFR+
AFR–
2 EB1
A12
AIR FUEL RATIO SENSOR
(BANK 2 SENSOR 1)
B–W
4 B
12 B
21 B
HAFL
AFL+
AFL–
(SHIELDED)
(SHIELDED)
E6 A, E7 B, E8 C, E9 D, E10 E
ENGINE AND ECT ECU
E2
VTA1
VC
THW
OC1+
OC1–
OC2+
OC2–
KSW
MOPS
PS
18 B
23 B
2 B
14 B
6 C
5 C
29 C
18 C
23 E
17 A
9 B
BR
L–W
Y–B
G–W
Y–B
G–W
G–R
G–Y
L
W–B
Y–G
B–Y
E 8 : LHD
E 6 : RHD
E2
VTA
VC
T1
THROTTLE POSITION SENSOR
E2
EFI WATER TEMP.
SENSOR
C2
CAMSHAFT TIMING OIL
CONTROL VALVE RH
C1
CAMSHAFT TIMING OIL
CONTROL VALVE LH
U1
UNLOCK WARNING SW
J7
JUNCTION
CONNECTOR
IF
O1
OIL PRESSURE SW
P1
POWER STEERING OIL PRESSURE SW

ENGINE CONTROL AND ENGINE IMMOBILISER SYSTEM




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
V-W
W-B
BR
7.5A
OBD
10 1E
B-O
W
(LHD)
4 BD1
W (LHD) 9
MPX1
MPX2
10
Y (LHD)
11 BB1
W (LHD) 5
MPX1
MPX2
4
Y-R (LHD)
10 BB1
Y-R (LHD)
3 IM1
Y-R (LHD)
5 IL1
Y-R (LHD)
10
MPX2
MPX1
11
Y (LHD)
10 IL1
D11
DOUBLE LOCK DOOR
CONTROL RELAY
R16
REAR DOOR RH ECU
F17
FRONT PASSENGER
DOOR ECU
10 BA1
W (LHD) 4
MPX2
MPX1
5
V (LHD)
11 BA1
V (LHD)
11 IA2
V (LHD)
10 IC1
V (LHD)
11
MPX2
MPX1
10
Y-R (LHD)
5 IC1
Y-R (LHD)
8
MPX2
MPX1
7
Y-B (LHD)
4 IE1
R14
REAR DOOR LH ECU
D12
DRIVER DOOR ECU
T5
THEFT DETERRENT
ECU
P-B
W
V-W
W
9 5A
10 5A
1 5B
4 5C
BR
P-B
B-O
5
13
16
SG
TC
BAT
SIL
TAC
CG
7
9
4
W
O
W-B
3 5B
11 5B
D3
DLC3
O
Y(LHD)
Y(RHD)
W-R
LG
O
Y-G
Y-R(LHD)
Y(RHD)
W-R
LG
O
Y-G
W-B
W-B
EC
IF

ENGINE CONTROL AND ENGINE IMMOBILISER SYSTEM



SYSTEM OUTLINE

The engine control system utilizes a microcomputer and maintains overall control of the engine, transmission etc. An outline of the engine control is given here.

1. INPUT SIGNALS

(1) Engine coolant temp. signal circuit

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

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the air flow meter and detects the intake air temp. which is input as a control signal to TERMINAL THA of the engine and ECT ECU.

(3) Vehicle speed signal circuit

The vehicle speed signal is input from the ABS speed sensor to ABS & BA & TRC & VSC ECU, and are sent to the engine and ECT ECU through communication control.

(4) RPM signal circuit

Camshaft position is detected by the VVT sensors and its signal is input to TERMINALS VV1 and VV2 of the engine and ECT ECU as a control signal. Also, engine RPM is detected by the crankshaft position sensor and is input as a control signal to TERMINAL NE+.

(5) Throttle position 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 and ECT ECU.

(6) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine and ECT ECU. With the ignition SW turned on, the voltage for engine and ECT ECU start-up power supply is applied to TERMINAL +B of the engine and ECT ECU via the EFI relay.

The current flowing through the IGN fuse flows to TERMINAL IGSW of the engine and ECT ECU.

(7) Intake air volume signal circuit

Intake air volume is detected by the air flow meter and the signal is input to TERMINAL VG of the engine and ECT ECU as a control signal.

(8) Stop light SW signal circuit

The stop light SW is used to detect whether the vehicle is braking or not and the signal is input into TERMINAL STP of the engine and ECT ECU as a control signal.

(9) Starter signal circuit

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

(10) Engine knock signal circuit

Engine knocking is detected by knock sensors and the signal is input into TERMINALS KNKL and KNKR of the engine and ECT ECU as a control signal.

2. CONTROL SYSTEM

* EFI system

The EFI system monitors the engine condition through the signals input from each sensor (Input signals from (1) to (10) etc.) to the engine and ECT ECU. And the control signal is output to TERMINALS #10, #20, #30, #40, #50 and #60 of the engine and ECT ECU to operate the injector (Inject the fuel). The SFI system controls the fuel injection operation by the engine and ECT ECU in response to the driving conditions.

* ESA system

The ESA system monitors the engine condition through the signals input to the engine and ECT ECU from each sensor (Input signals from (1) to (10) etc.). The best ignition timing is decided according to this data and the memorized data in the engine and ECT ECU 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.

* ACIS

The ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened or closed according to the driving conditions to control the intake manifold length in three stages, for increased engine output in all ranges from low to high speeds, when idling.

ENGINE CONTROL AND ENGINE IMMOBILISER SYSTEM

3. DIAGNOSIS SYSTEM

With the diagnosis system, when there is a malfunction in the engine and ECT ECU signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed by the check engine warning light.

4. FAIL-SAFE SYSTEM

When a malfunction has occurred in any system, 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 and ECT ECU memory or else stops the engine.

SERVICE HINTS

CIRCUIT OPENING RELAY

5-3 : Closed with the starter running

EFI RELAY

5-3 : Closed with the ignition SW at **ON** or **ST** position

E6 (A), E7 (B), E8 (C), E9 (D), E10 (E) ENGINE AND ECT ECU

Voltage at engine and ECT ECU wiring connector

BATT-E1 : Always **9.0-14.0** volts
+B-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)
IGF-E1 : **4.5-5.5** volts (Ignition SW at **ON** position)
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)
NSW-E1 : **9.0-14.0** volts (Ignition SW on and other shift position in **P** or **N** position)
0-3.0 volts (Ignition SW on and shift position in **P** or **N** position)
EVP1-E01 : **9.0-14.0** volts (Ignition SW at **ON** position)
TC-E1 : **9.0-14.0** volts (Ignition SW at **ON** position)
STP-E1 : **7.5-14.0** volts (Ignition SW on and brake pedal depressed)
0-1.5 volts (Ignition SW on and brake pedal depressed)
OXS-E1 : Pulse generation (Maintain engine speed at **2500** rpm for two minutes after warming up)
KNKL, KNKR-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
A10	90 (LHD)
	98 (RHD)
A11	90 (LHD)
	98 (RHD)
A12	90 (LHD)
	98 (RHD)
A16	90 (LHD)
	98 (RHD)
B5 A	92 (LHD)
	100 (RHD)
B8 D	92 (LHD)
	100 (RHD)
C1	90 (LHD)
	98 (RHD)
C2	90 (LHD)
	98 (RHD)
C3	90 (LHD)
	98 (RHD)
C4	90 (LHD)
	98 (RHD)
C10 A	92 (LHD)
	100 (RHD)
C12 C	92 (LHD)
	100 (RHD)
C16	92 (LHD)
	100 (RHD)
D3	92 (LHD)
	100 (RHD)
D11	94 (LHD)
	102 (RHD)
D12	94 (LHD)
	102 (RHD)
E2	90 (LHD)
	98 (RHD)
E6 A	92 (LHD)
	100 (RHD)
E7 B	92 (LHD)
	100 (RHD)
E8 C	92 (LHD)
	100 (RHD)
E9 D	92 (LHD)

Code	See Page
E9 D	100 (RHD)
E10 E	92 (LHD)
	100 (RHD)
F11	90 (LHD)
	98 (RHD)
F17	94 (LHD)
	102 (RHD)
F18	94 (LHD)
	102 (RHD)
H12	94 (LHD)
	102 (RHD)
I7	91 (LHD)
	99 (RHD)
I8	91 (LHD)
	99 (RHD)
I9	91 (LHD)
	99 (RHD)
I10	91 (LHD)
	99 (RHD)
I11	91 (LHD)
	99 (RHD)
I12	91 (LHD)
	99 (RHD)
I13	91 (LHD)
	99 (RHD)
I15	93 (LHD)
	101 (RHD)
I16 A	101 (RHD)
I17 B	93 (LHD)
	101 (RHD)
J2	91 (LHD)
	99 (RHD)
J3 B	93 (LHD)
	101 (RHD)
J4 A	93 (LHD)
	101 (RHD)
J7	93 (LHD)
	101 (RHD)
J10	93 (LHD)
	101 (RHD)
J12	94 (LHD)

Code	See Page
J12	102 (RHD)
K1	91 (LHD)
	99 (RHD)
K2	91 (LHD)
	99 (RHD)
N1	91 (LHD)
	99 (RHD)
O1	91 (LHD)
	99 (RHD)
P1	91 (LHD)
	99 (RHD)
R14	95 (LHD)
	103 (RHD)
R16	95 (LHD)
	103 (RHD)
S10	93 (LHD)
	101 (RHD)
T1	91 (LHD)
	99 (RHD)
T2	91 (LHD)
	99 (RHD)
T5	93 (LHD)
	101 (RHD)
T7	93 (LHD)
	101 (RHD)
U1	93 (LHD)
	101 (RHD)
V1	91 (LHD)
	99 (RHD)
V2	91 (LHD)
	99 (RHD)
V3	91 (LHD)
	99 (RHD)
V4	91 (LHD)
	99 (RHD)
V5	91 (LHD)
	99 (RHD)
V6	91 (LHD)
	99 (RHD)

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	87	R/B No.1 (Lower Finish Panel)
2	88	R/B No.2 (Engine Compartment Left)
4	89	R/B No.4 (Left Kick Panel)

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1E	78 (LHD)	
	80 (RHD)	
1F	78 (LHD)	
	80 (RHD)	
1G	78 (LHD)	
	80 (RHD)	
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
2B	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2C		
2D	82	Engine Wire and Engine Room J/B (Engine Compartment Left)
2F	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2I		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3E		
3K		
5A	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5B		
5C		
5E		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	106 (LHD) 116 (RHD)	Engine Wire and Sensor Wire (Head Cover RH)
EB1	106 (LHD) 116 (RHD)	Engine Wire and Engine Room Main Wire (Under the Engine Room J/B)
IA2	108 (LHD) 118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IB1	108 (LHD) 118 (RHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
IC1	108 (LHD) 118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IE1	108 (LHD) 118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IE2	108 (LHD) 118 (RHD)	
IH1	110 (LHD) 120 (RHD)	Engine Wire and Cowl Wire (Behind the Glove Box)
II1	110 (LHD) 120 (RHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
IJ1	110 (LHD) 120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	110 (LHD) 120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	110 (LHD) 120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
BA1	112 (LHD) 122 (RHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD) 122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BD1	112 (LHD) 122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

: GROUND POINTS

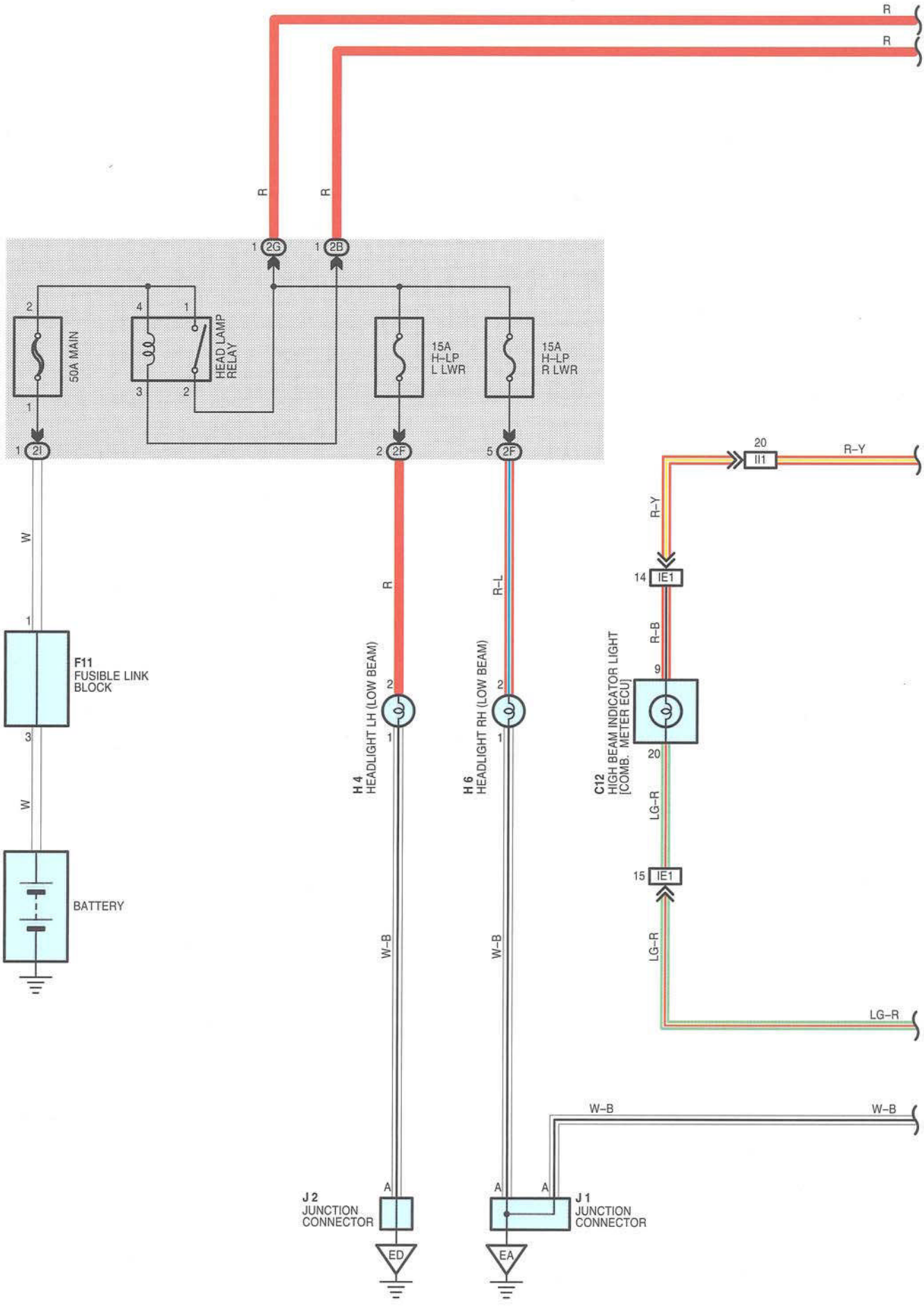
Code	See Page	Ground Points Location
EB	106 (LHD) 116 (RHD)	Surge Tank RH
EC	106 (LHD) 116 (RHD)	Rear Side of Surge Tank
ED	106 (LHD) 116 (RHD)	Right Radiator Side Support
IF	108 (LHD) 118 (RHD)	Dash Panel Center
IH	108 (LHD) 118 (RHD)	Instrument Panel Brace RH
BI	112 (LHD) 122 (RHD)	Upper the Rear Axle Housing Left

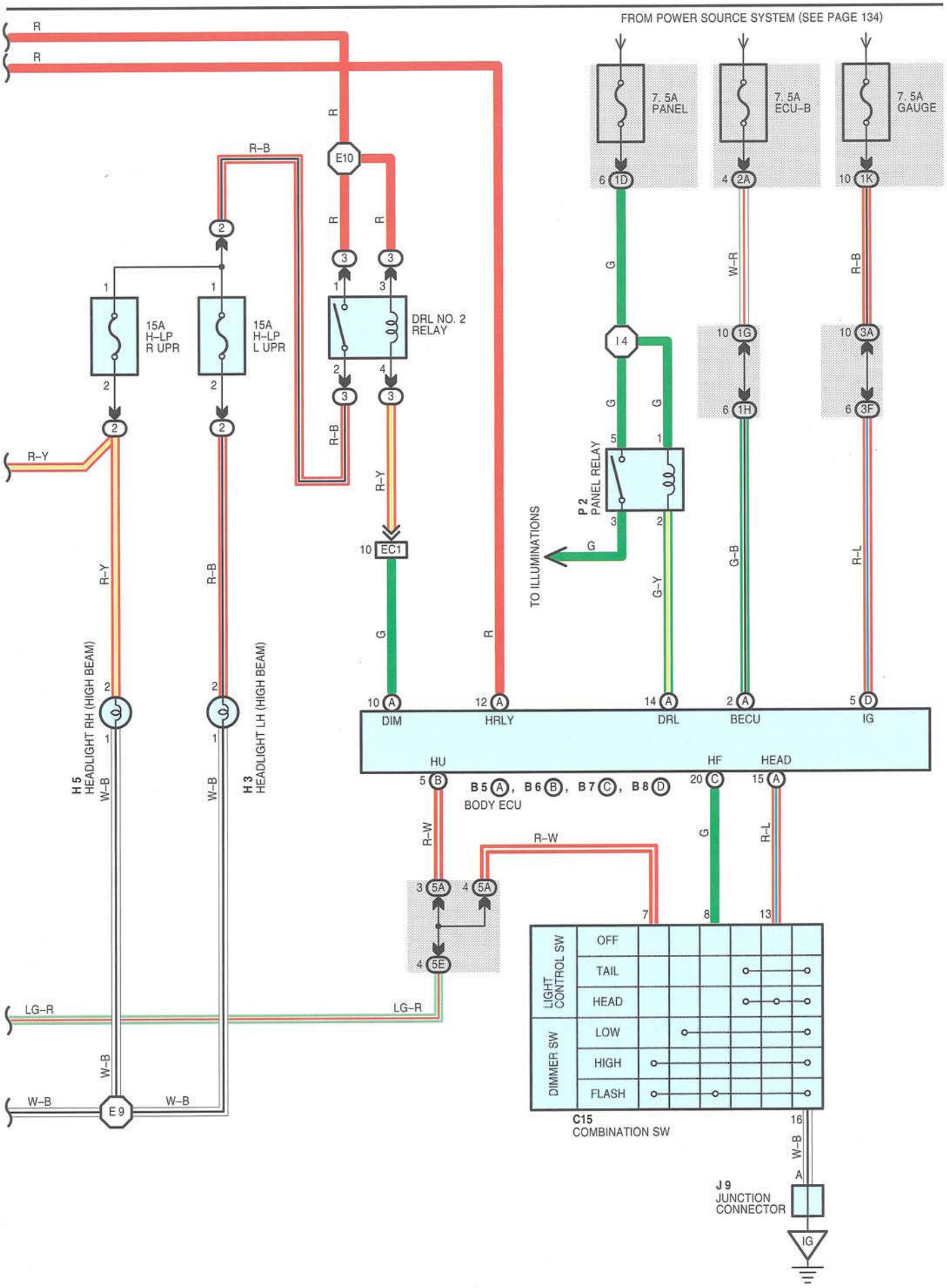
ENGINE CONTROL AND ENGINE IMMOBILISER SYSTEM

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E4	116 (RHD)	Engine Wire	I4	110 (LHD)	Cowl Wire
E5				120 (RHD)	
E6	106 (LHD)		I5	120 (RHD)	Engine Wire
	116 (RHD)		I7	110 (LHD)	Cowl Wire
E7	106 (LHD)		I10	120 (RHD)	
E8			I11	110 (LHD)	
I1	120 (RHD)	Cowl Wire	I13	110 (LHD)	Engine Wire
I2					

HEADLIGHT (LHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
R
R
7.5A PANEL
7.5A ECU-B
7.5A GAUGE
6 1D
4 2A
10 1K
E10
R-B
R
R
R
3
3
3
1
3
2
4
3
3
15A H-LP R UPR
15A H-LP L UPR
DRL NO. 2 RELAY
1
1
2
2
2
2
G
W-R
R-B
I 4
G
G
10 1G
10 3A
6 1H
6 3F
5
1
P 2 PANEL RELAY
3
2
R-Y
R-B
R-Y
G
G-Y
G-B
R-L
TO ILLUMINATIONS
10 EC1
R-Y
R-B
G
R
10 A
12 A
14 A
2 A
5 D
DIM
HRLY
DRL
BECU
IG
H 5 HEADLIGHT RH (HIGH BEAM)
H 3 HEADLIGHT LH (HIGH BEAM)
W-B
W-B
HU
HF
HEAD
5 B
20 C
15 A
B5 A, B6 B, B7 C, B8 D
BODY ECU
R-W
R-W
G
R-L
3 5A
4 5A
4 5E
7
8
13
LIGHT CONTROL SW
OFF
TAIL
HEAD
DIMMER SW
LOW
HIGH
FLASH
LG-R
LG-R
W-B
W-B
W-B
E 9
C15 COMBINATION SW
16
W-B
A
J 9 JUNCTION CONNECTOR
IG

HEADLIGHT (LHD)

SYSTEM OUTLINE

DAYTIME RUNNING LIGHT OPERATION

This system will operates for turning the headlight (Low beam) and the taillight on by controlling the body ECU when the both conditions that the ignition SW is on and the taillight SW is off are fulfilled.

SERVICE HINTS

HEAD LAMP RELAY

1-2 : Closed with the light control SW at **HEAD** position or dimmer SW at **FLASH** position
: During the daytime running light is operated

C15 COMBINATION SW

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

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
B5	A	92 (LHD)	C15	92 (LHD)	H6	90 (LHD)
B6	B	92 (LHD)	F11	90 (LHD)	J1	91 (LHD)
B7	C	92 (LHD)	H3	90 (LHD)	J2	91 (LHD)
B8	D	92 (LHD)	H4	90 (LHD)	J9	93 (LHD)
C12		92 (LHD)	H5	90 (LHD)	P2	93 (LHD)

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	88	R/B No.2 (Engine Compartment Left)
3	88	R/B No.3 (Engine Compartment Front Left)

▭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2F	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2I		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		
5A	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5E		

▭ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	106 (LHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)

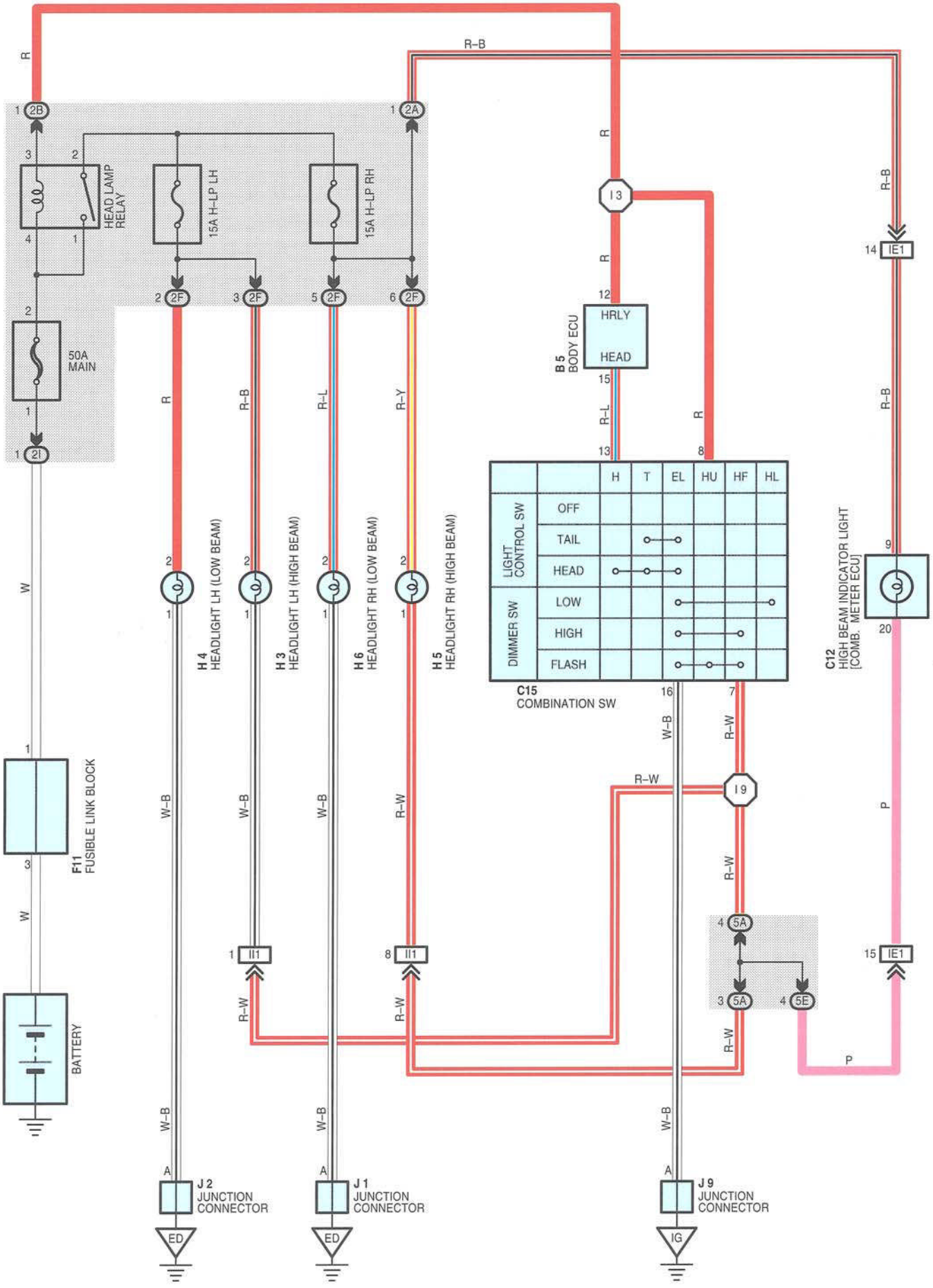
▽ : GROUND POINTS

Code	See Page	Ground Points Location
EA	106 (LHD)	Engine Compartment Right
ED	106 (LHD)	Right Radiator Side Support
IG	108 (LHD)	Cowl Side Panel RH

: **SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E9	106 (LHD)	Engine Room Main Wire	I4	110 (LHD)	Cowl Wire
E10					

HEADLIGHT (RHD)



SERVICE HINTS

HEAD LAMP RELAY

1-2 : Closed with the light control SW at **HEAD** position or dimmer SW at **FLASH** position

C15 COMBINATION SW

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

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5	100 (RHD)	H3	98 (RHD)	J1	99 (RHD)
C12	100 (RHD)	H4	98 (RHD)	J2	99 (RHD)
C15	100 (RHD)	H5	98 (RHD)	J9	101 (RHD)
F11	98 (RHD)	H6	98 (RHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2F	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2I		
5A	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5E		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
II1	120 (RHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)

▽ : GROUND POINTS

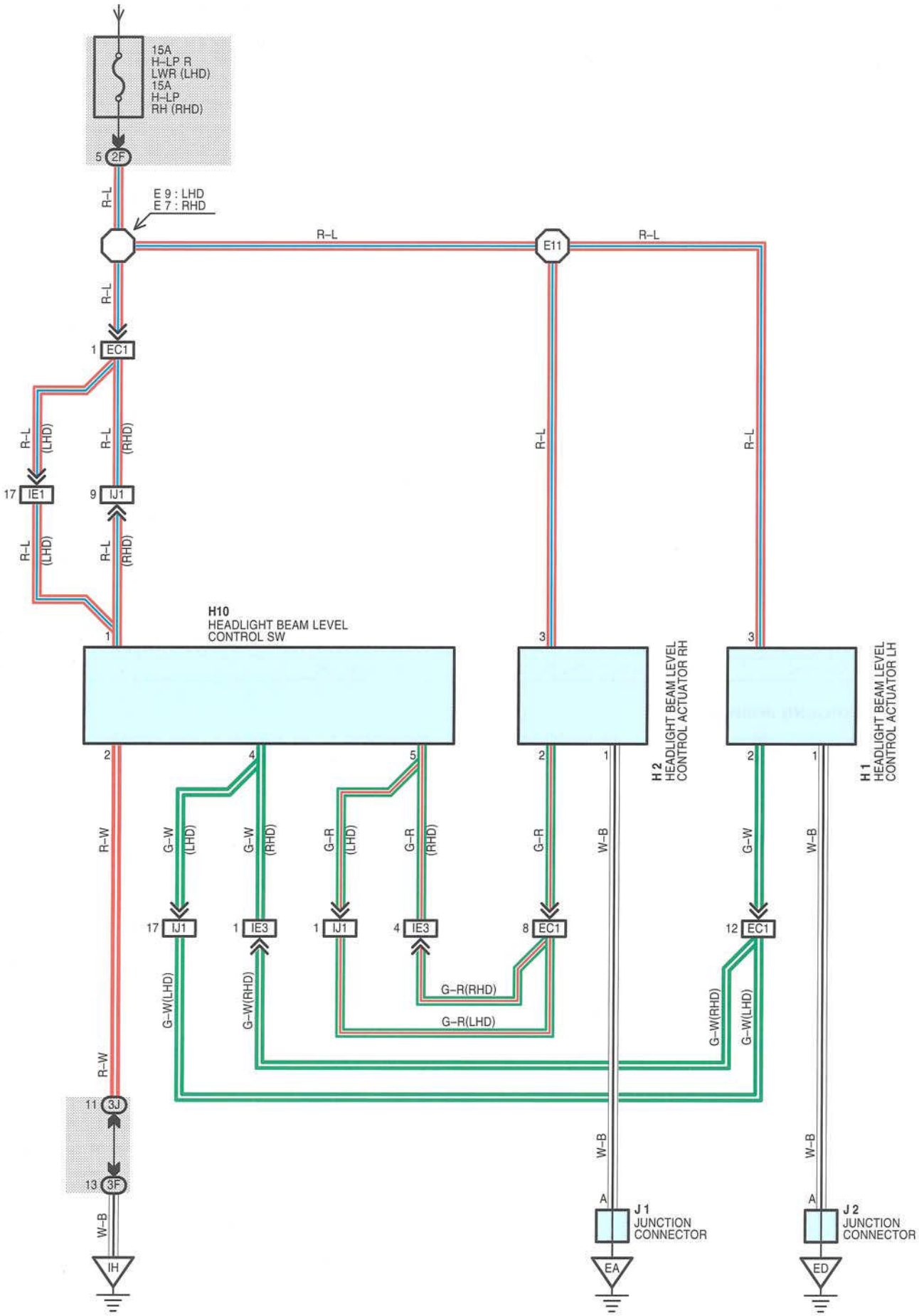
Code	See Page	Ground Points Location
ED	116 (RHD)	Right Radiator Side Support
IG	118 (RHD)	Cowl Side Panel RH

⬡ : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I3	120 (RHD)	Cowl Wire	I9	120 (RHD)	Cowl Wire

HEADLIGHT BEAM LEVEL CONTROL

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



SERVICE HINTS

H1, H2 HEADLIGHT BEAM LEVEL CONTROL ACTUATOR LH, RH

3-GROUND : Approx. **12** volts with the light control SW at **HEAD** position
1-GROUND : Always continuity

H10 HEADLIGHT BEAM LEVEL CONTROL SW

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

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
H1	90 (LHD)	H10	93 (LHD)	J2	91 (LHD)
	98 (RHD)		101 (RHD)		99 (RHD)
H2	90 (LHD)	J1	91 (LHD)		
	98 (RHD)		99 (RHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3F	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3J		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	106 (LHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
	116 (RHD)	
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IE3	118 (RHD)	
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)

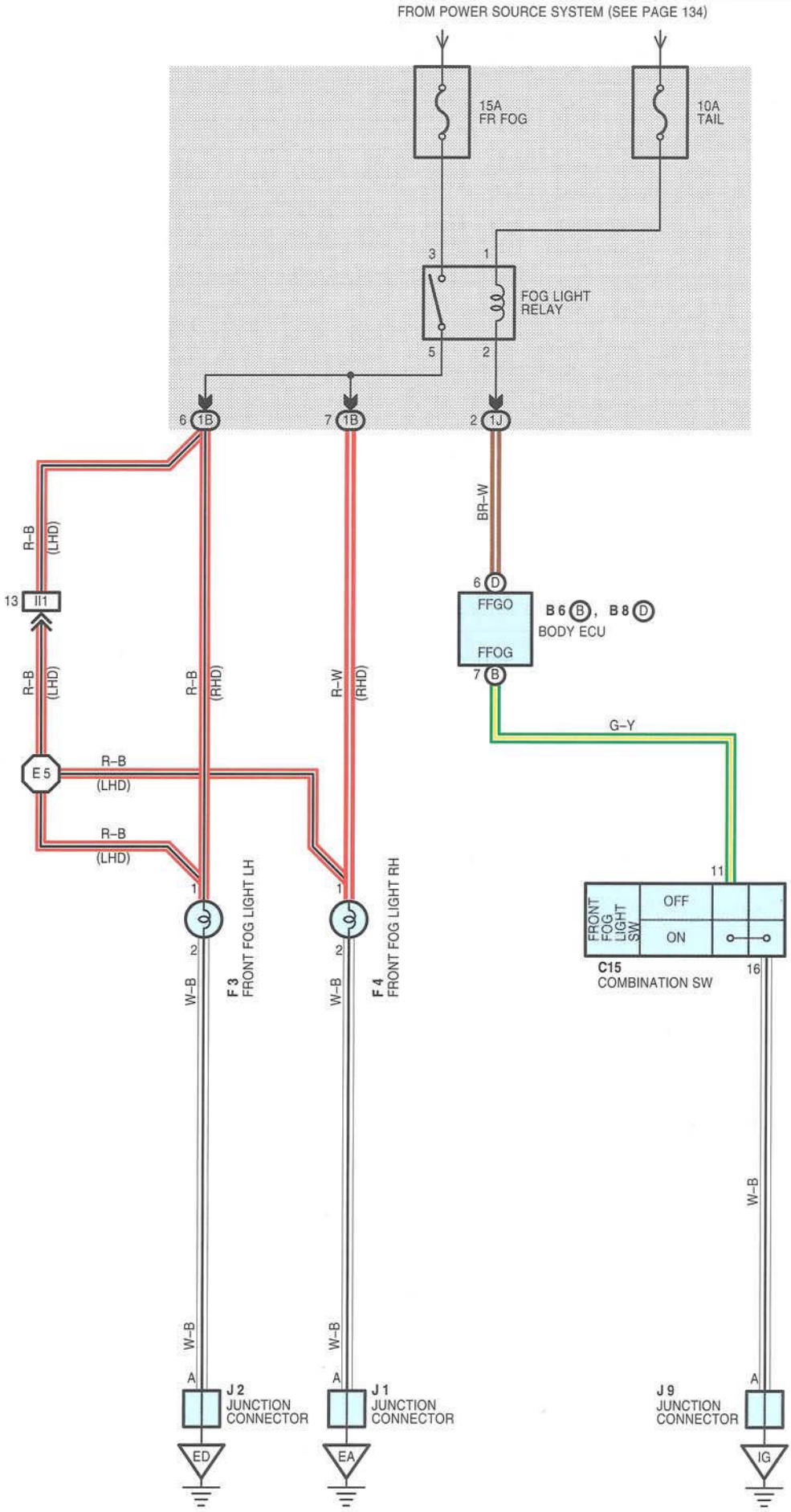
▽ : GROUND POINTS

Code	See Page	Ground Points Location
EA	106 (LHD)	Engine Compartment Right
	116 (RHD)	
ED	106 (LHD)	Right Radiator Side Support
	116 (RHD)	
IH	108 (LHD)	Instrument Panel Brace RH
	118 (RHD)	

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E7	116 (RHD)	Engine Room Main Wire	E11	106 (LHD)	Engine Room Main Wire
E9	106 (LHD)				

FRONT FOG LIGHT



SERVICE HINTS

FOG LIGHT RELAY

3–5 : Closed with the light control SW at TAIL position and front fog light SW on

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
B6	B	92 (LHD)	F3	90 (LHD)	J2	91 (LHD)
		100 (RHD)		98 (RHD)		99 (RHD)
B8	D	92 (LHD)	F4	90 (LHD)	J9	93 (LHD)
		100 (RHD)		98 (RHD)		101 (RHD)
C15		92 (LHD)	J1	91 (LHD)		
		100 (RHD)		99 (RHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)

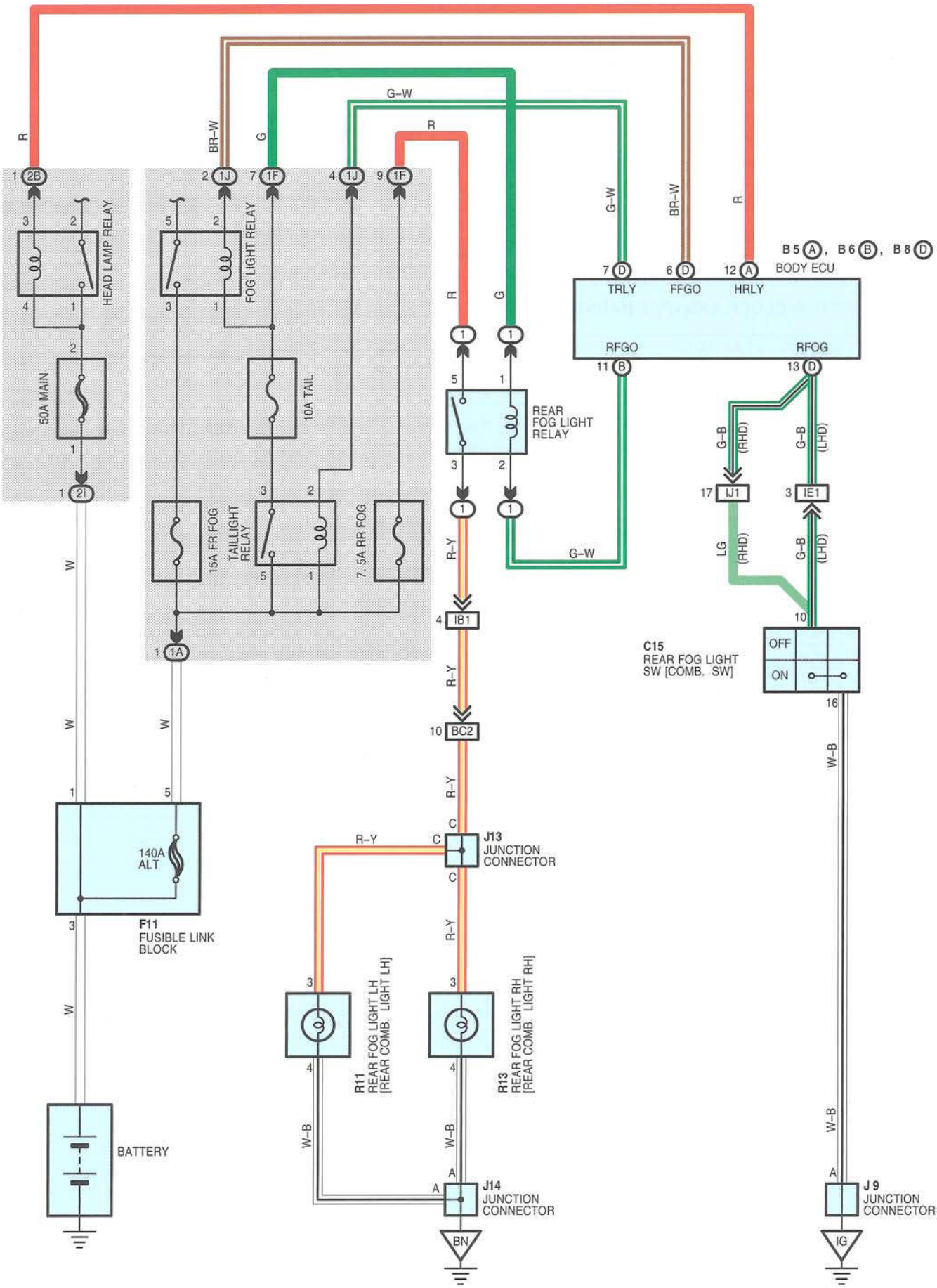
: GROUND POINTS

Code	See Page	Ground Points Location
EA	106 (LHD)	Engine Compartment Right
	116 (RHD)	
ED	106 (LHD)	Right Radiator Side Support
	116 (RHD)	
IG	108 (LHD)	Cowl Side Panel RH
	118 (RHD)	

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E5	106 (LHD)	Engine Room Main Wire			

REAR FOG LIGHT



SERVICE HINTS

REAR FOG LIGHT RELAY

5-3 : Closed with the light control SW at TAIL position and rear fog light SW on

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
B5	A	92 (LHD)	C15	100 (RHD)	J14	94 (LHD)
		100 (RHD)	F11	90 (LHD)		102 (RHD)
B6	B	92 (LHD)		98 (RHD)	R11	95 (LHD)
		100 (RHD)	J9	93 (LHD)		103 (RHD)
B8	D	92 (LHD)		101 (RHD)	R13	95 (LHD)
		100 (RHD)	J13	94 (LHD)		103 (RHD)
C15		92 (LHD)		102 (RHD)		

⬭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	87	R/B No.1 (Lower Finish Panel)

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1F	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
2B	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2I	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

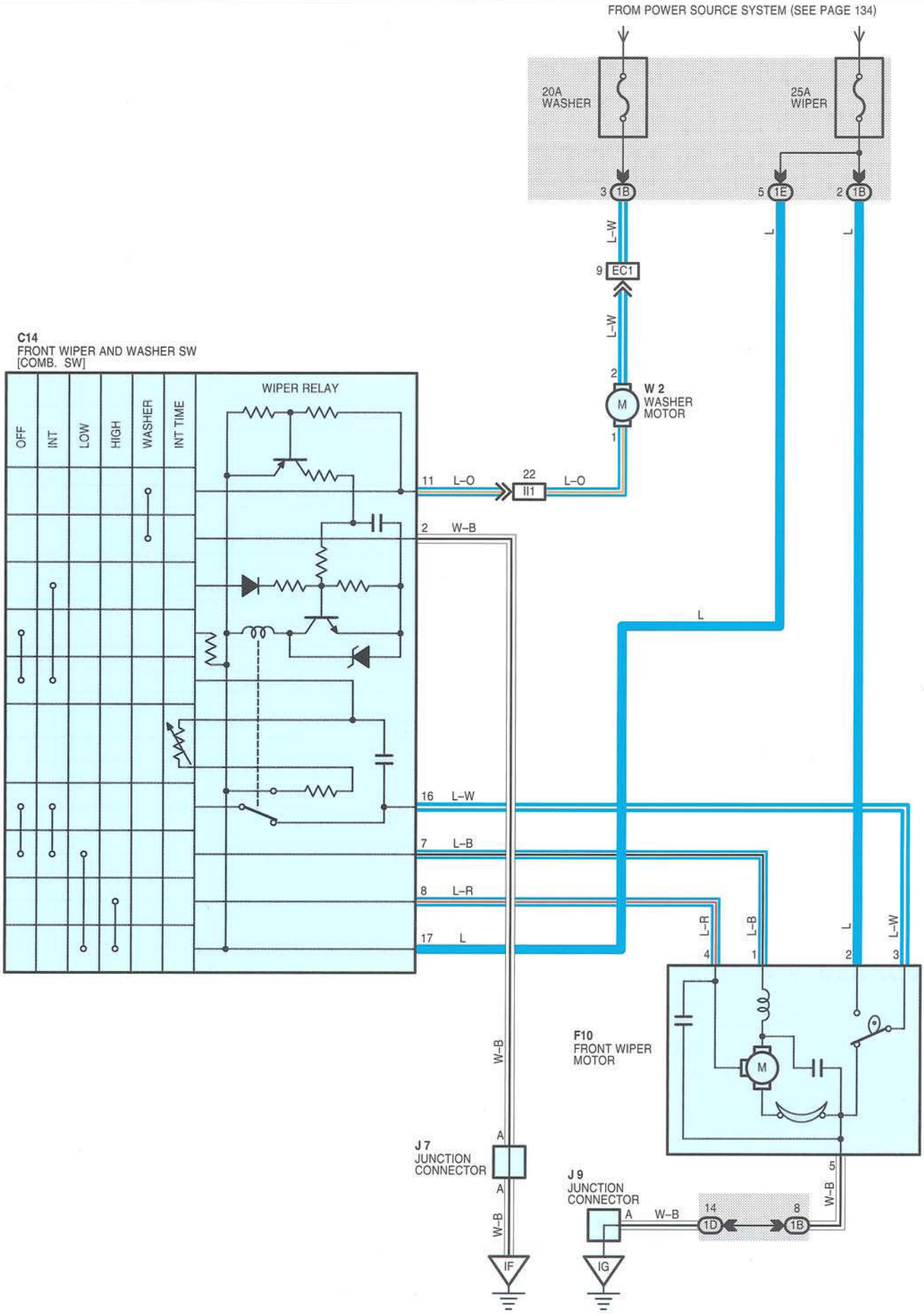
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	108 (LHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
	118 (RHD)	
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
	118 (RHD)	
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
	120 (RHD)	
BC2	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
	122 (RHD)	

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IG	108 (LHD)	Cowl Side Panel RH
	118 (RHD)	
BN	112 (LHD)	Back Panel Center
	122 (RHD)	

FRONT WIPER AND WASHER (LHD)



SYSTEM OUTLINE

With the ignition SW turned on, the current flows to TERMINAL 17 of the front wiper and washer SW, TERMINAL 2 of the front wiper motor through the WIPER fuse, the current flows to TERMINAL 2 of the washer motor through WASHER fuse.

1. LOW SPEED POSITION

With the wiper SW turned to LOW position, the current flows through 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 wiper motor to run at low speed.

2. HIGH SPEED POSITION

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

3. INT POSITION

With the wiper SW turned to INT position, the relay operates and the current which is connected by relay function flows through TERMINAL 17 of the front wiper and washer SW to TERMINAL 2 to GROUND. This flow of current operates the intermittent circuit and the current flows through 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 functions.
The intermittent operation is controlled by a condenser's charged and discharged function installed in the relay and the intermittent time is controlled by a time control SW to charge the charging time of condenser.

4. WASHER CONTINUOUS OPERATION

With the washer SW turned to on, the current flows through TERMINAL 2 of the washer motor to TERMINAL 1 to TERMINAL 11 of the front wiper and washer SW to TERMINAL 2 to GROUND and causes the washer motor to run and the window washer to jet. This causes the current to flow to washer continuous operation circuit in 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 functions.

SERVICE HINTS

C14 FRONT WIPER AND WASHER SW [COMB. SW]

2-GROUND : Always continuity
17-GROUND : Approx. **12** volts with the ignition SW at **ON** position
7-GROUND : Approx. **12** volts with the front wiper and washer SW at **LOW** position
Approx. **12** volts **2** to **11** seconds intermittently with the front wiper and washer SW at **INT** position
16-GROUND : Approx. **12** volts with the ignition SW on unless the front wiper motor at **STOP** position
8-GROUND : Approx. **12** volts with the front wiper and washer SW at **HIGH** position

F10 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
C14	92 (LHD)	J7	93 (LHD)	W2	91 (LHD)
F10	90 (LHD)	J9	93 (LHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1D		
1E		

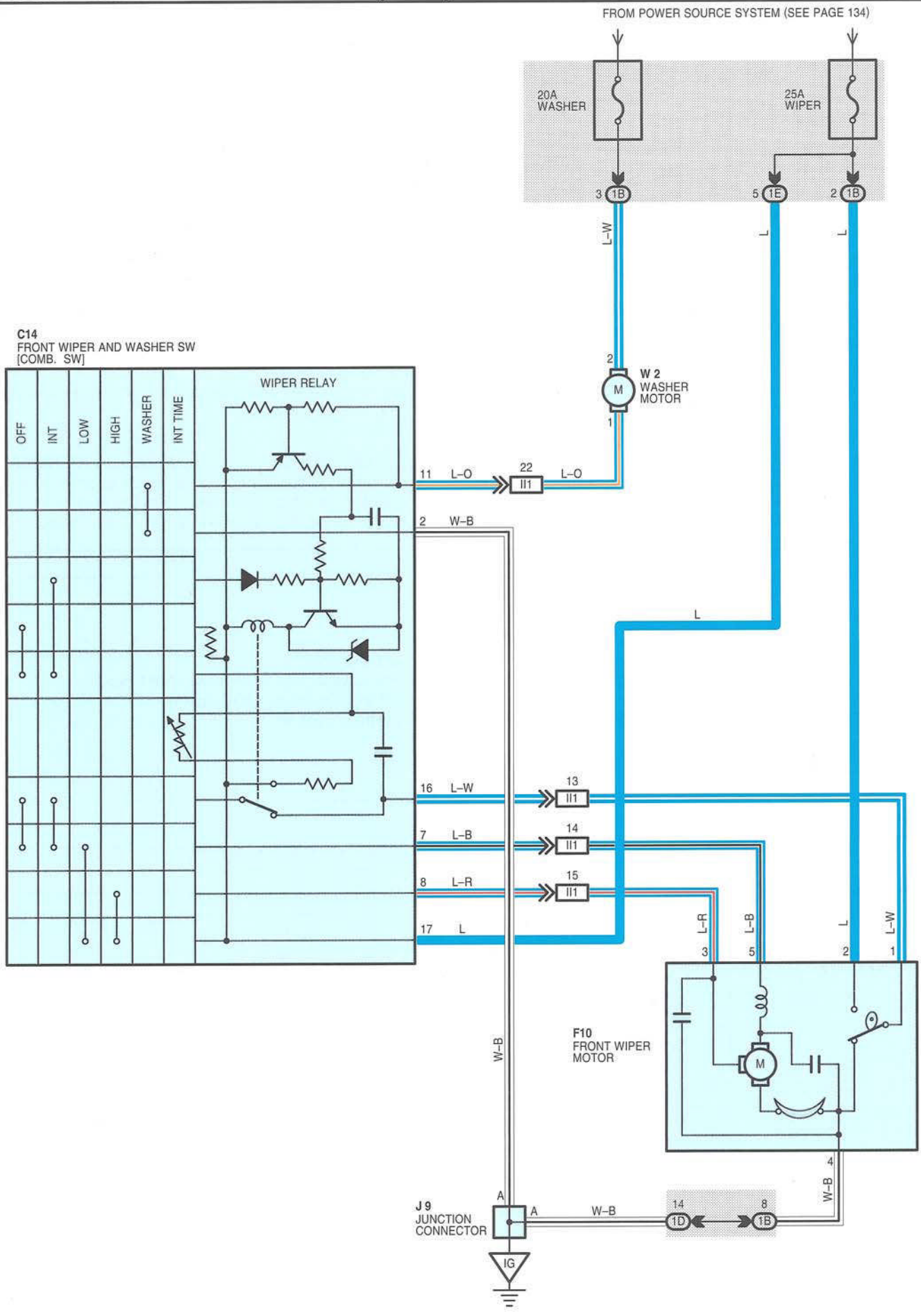
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	106 (LHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	108 (LHD)	Dash Panel Center
IG	108 (LHD)	Cowl Side Panel RH

FRONT WIPER AND WASHER (RHD)



SYSTEM OUTLINE

With the ignition SW turned on, the current flows to TERMINAL 17 of the front wiper and washer SW, TERMINAL 2 of the front wiper motor through the WIPER fuse, the current flows to TERMINAL 2 of the washer motor through WASHER fuse.

1. LOW SPEED POSITION

With the wiper SW turned to LOW position, the current flows through TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the front wiper motor to TERMINAL 4 to GROUND and causes the wiper motor to run at low speed.

2. HIGH SPEED POSITION

With the wiper SW turned to HIGH position, the current flows through TERMINAL 17 of the front wiper and washer SW to TERMINAL 8 to TERMINAL 3 of the front wiper motor to TERMINAL 4 to GROUND and causes the wiper motor to run at high speed.

3. INT POSITION

With the wiper SW turned to INT position, the relay operates and the current which is connected by relay function flows through TERMINAL 17 of the front wiper and washer SW to TERMINAL 2 to GROUND. This flow of current operates the intermittent circuit and the current flows through TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the front wiper motor to TERMINAL 4 to GROUND and the wiper functions.
The intermittent operation is controlled by a condenser's charged and discharged function installed in the relay and the intermittent time is controlled by a time control SW to charge the charging time of condenser.

4. WASHER CONTINUOUS OPERATION

With the washer SW turned to on, the current flows through TERMINAL 2 of the washer motor to TERMINAL 1 to TERMINAL 11 of the front wiper and washer SW to TERMINAL 2 to GROUND and causes the washer motor to run and the window washer to jet. This causes the current to flow to washer continuous operation circuit in TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the front wiper motor to TERMINAL 4 to GROUND and the wiper functions.

SERVICE HINTS

C14 FRONT WIPER AND WASHER SW [COMB. SW]

2-GROUND : Always continuity
17-GROUND : Approx. **12** volts with the ignition SW at **ON** position
7-GROUND : Approx. **12** volts with the front wiper and washer SW at **LOW** position
Approx. **12** volts **2** to **11** seconds intermittently with the front wiper and washer SW at **INT** position
16-GROUND : Approx. **12** volts with the ignition SW on unless the front wiper motor at **STOP** position
8-GROUND : Approx. **12** volts with the front wiper and washer SW at **HIGH** position

F10 FRONT WIPER MOTOR

2-1 : Closed unless the front wiper motor at **STOP** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C14	100 (RHD)	J9	101 (RHD)		
F10	98 (RHD)	W2	99 (RHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		

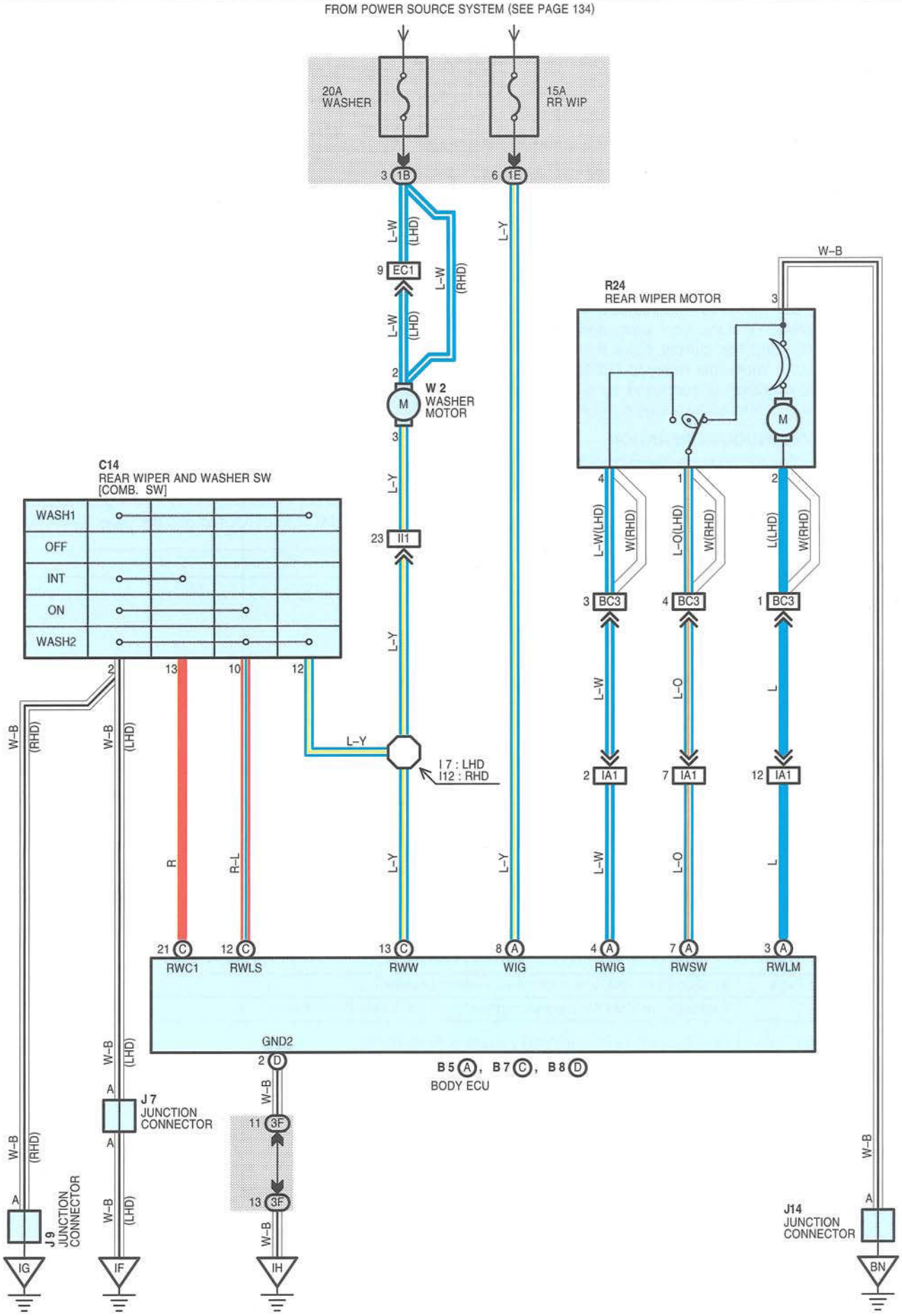
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II1	120 (RHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IG	118 (RHD)	Cowl Side Panel RH

REAR WIPER AND WASHER



SYSTEM OUTLINE

When the ignition SW is turned to on, the current flows from RR WIP fuse to TERMINAL WIG of the body ECU, and from WASHER fuse to TERMINAL 2 of the washer motor.

1. REAR WIPER NORMAL OPERATION

When the ignition SW is on and the rear wiper and washer SW is turned to ON position, a signal is input to TERMINAL RWLS of the body ECU, and current flows from TERMINAL RWLM of the body ECU to TERMINAL 1 of the rear wiper motor to TERMINAL 2 to GROUND, and rotates the motor to operate the wiper.

2. REAR WIPER INTERMITTENT FUNCTION

When the ignition SW is on and the rear wiper and washer SW is turned to INT position, a signal is input to TERMINAL RWCI of the body ECU. As a result, the body ECU controls wiper motor operation time, and operates the wiper intermittently.

3. WASHER FUNCTION

When the ignition SW is on and the rear wiper and washer SW is turned to WASH1 position, only the washer motor operates, and with the SW at WASH2 position, the wiper motor also operates following the washer motor operation.

SERVICE HINTS

B5 (A), B8 (D) BODY ECU

(A) 8-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(D) 2-GROUND : Always continuity

W2 WASHER MOTOR

2-GROUND : Approx. **12** volts with the ignition SW at **ON** position
3-GROUND : Continuity with the washer SW turned on

C14 REAR WIPER AND WASHER SW [COMB. SW]

10-GROUND : Continuity with the rear wiper SW at **ON** position
13-GROUND : Continuity with the rear wiper SW at **INT** position
2-GROUND : Always continuity

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
B5	A	92 (LHD)	C14	92 (LHD)	R24	95 (LHD)
		100 (RHD)		100 (RHD)		103 (RHD)
B7	C	92 (LHD)	J7	93 (LHD)	W2	91 (LHD)
		100 (RHD)	J9	101 (RHD)		99 (RHD)
B8	D	92 (LHD)	J14	94 (LHD)		
		100 (RHD)		102 (RHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1E	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
3F	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	106 (LHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IA1	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
	118 (RHD)	
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
	120 (RHD)	
BC3	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
	122 (RHD)	

REAR WIPER AND WASHER

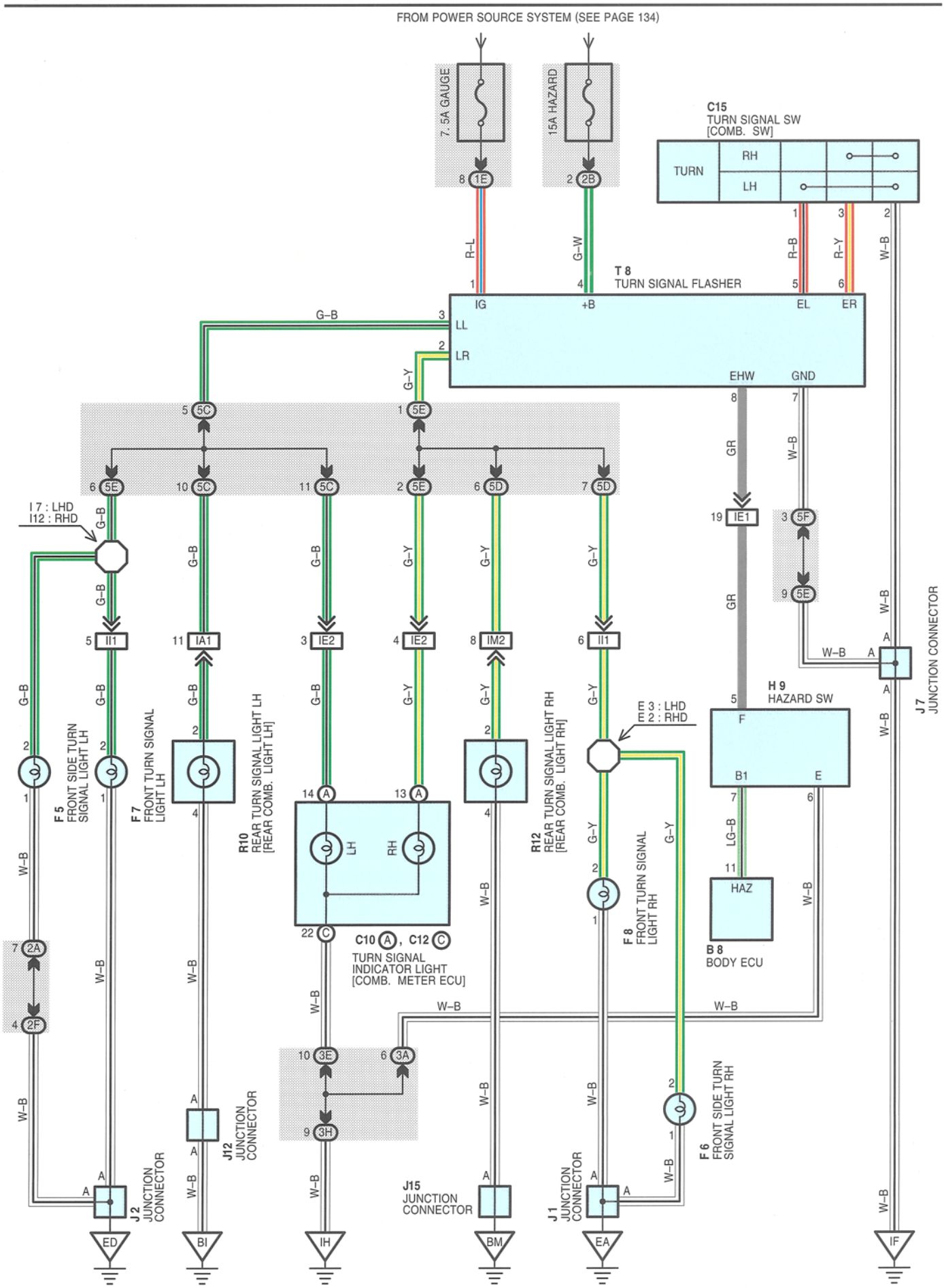
 **: GROUND POINTS**

Code	See Page	Ground Points Location
IF	108 (LHD)	Dash Panel Center
IG	118 (RHD)	Cowl Side Panel RH
IH	108 (LHD)	Instrument Panel Brace RH
	118 (RHD)	
BN	112 (LHD)	Back Panel Center
	122 (RHD)	

 **: SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I6	110 (LHD)	Cowl Wire	I7	110 (LHD)	Cowl Wire
	120 (RHD)	Instrument Panel Wire	I12	120 (RHD)	

TURN SIGNAL AND HAZARD WARNING LIGHT



SERVICE HINTS

T8 TURN SIGNAL FLASHER

8-GROUND : Approx. **12** volts with the ignition SW at **ON** position or hazard SW on

7-GROUND : Always continuity

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
B8		92 (LHD)	F7	90 (LHD)	J12	94 (LHD)
		100 (RHD)		98 (RHD)		102 (RHD)
C10	A	92 (LHD)	F8	90 (LHD)	J15	94 (LHD)
		100 (RHD)		98 (RHD)		102 (RHD)
C12	C	92 (LHD)	H9	93 (LHD)	R10	95 (LHD)
		100 (RHD)		101 (RHD)		103 (RHD)
C15		92 (LHD)	J1	91 (LHD)	R12	95 (LHD)
		100 (RHD)		99 (RHD)		103 (RHD)
F5		90 (LHD)	J2	91 (LHD)	T8	93 (LHD)
		98 (RHD)		99 (RHD)		101 (RHD)
F6		90 (LHD)	J7	93 (LHD)		
		98 (RHD)		101 (RHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2F	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
3H		
5C	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5D		
5E		
5F		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
	118 (RHD)	
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
	118 (RHD)	
IE2	108 (LHD)	
	118 (RHD)	
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
	120 (RHD)	
IM2	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
	120 (RHD)	

TURN SIGNAL AND HAZARD WARNING LIGHT

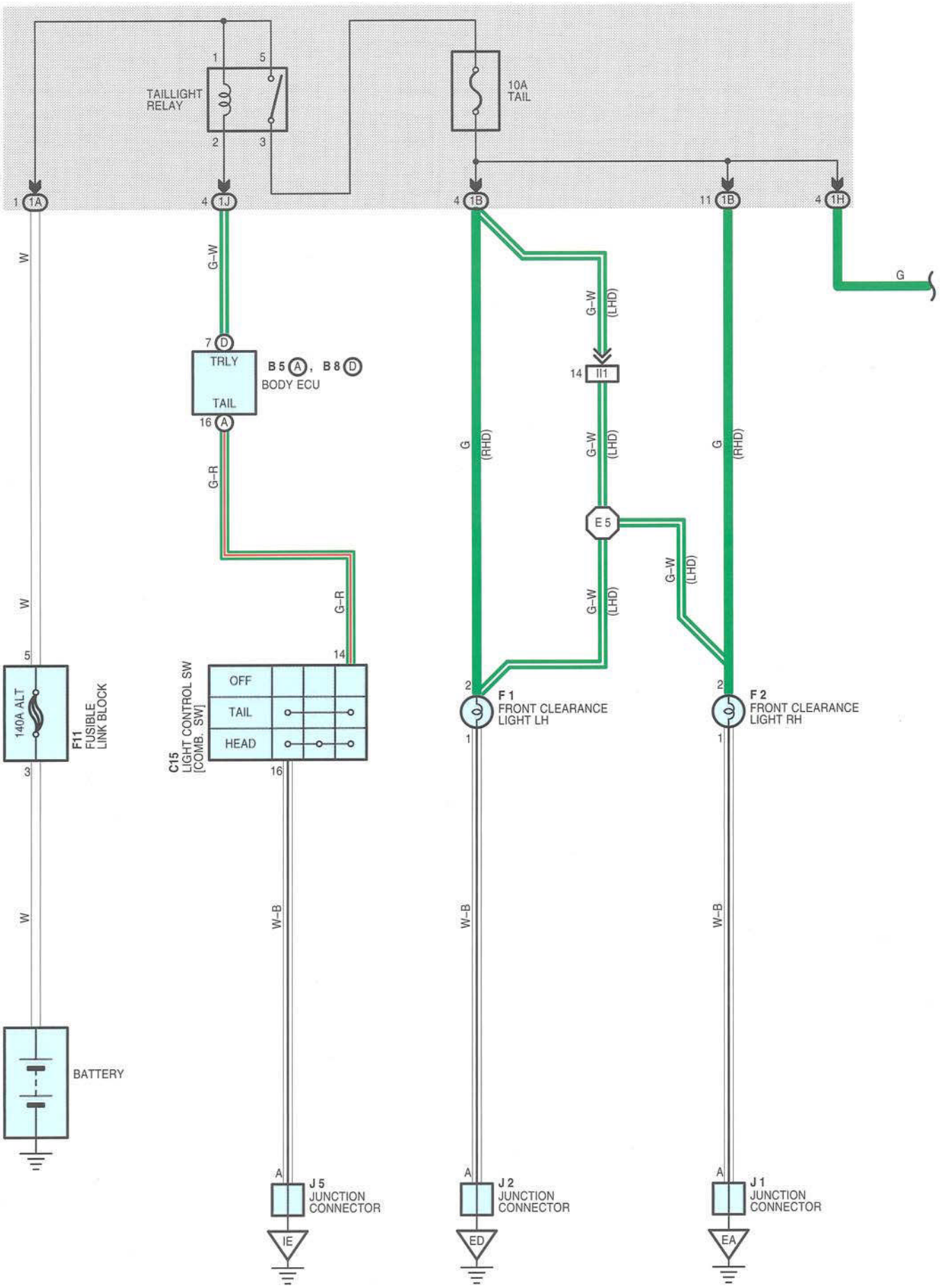
 **: GROUND POINTS**

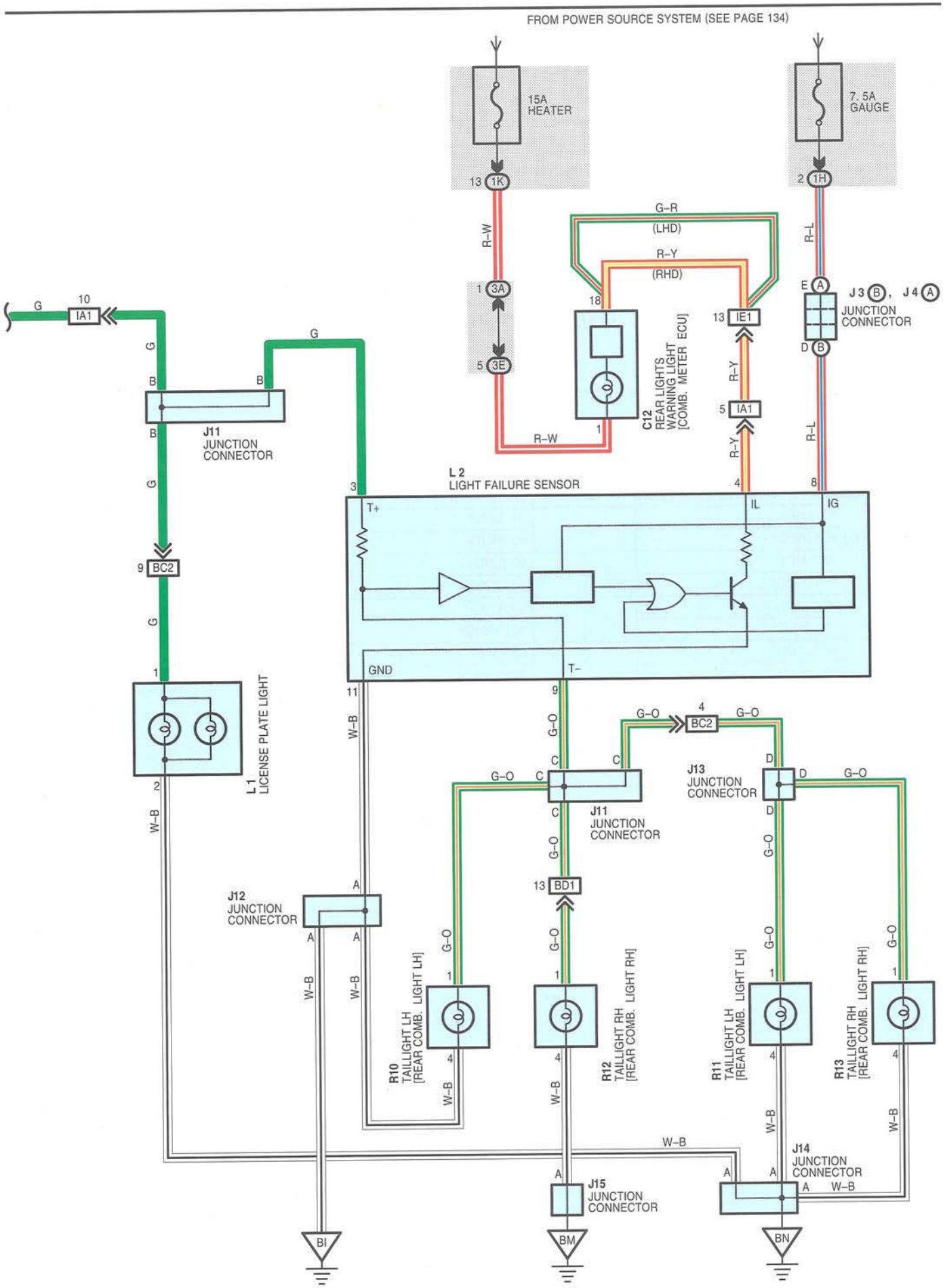
Code	See Page	Ground Points Location
EA	106 (LHD) 116 (RHD)	Engine Compartment Right
ED	106 (LHD) 116 (RHD)	Right Radiator Side Support
IF	108 (LHD) 118 (RHD)	Dash Panel Center
IH	108 (LHD) 118 (RHD)	Instrument Panel Brace RH
BI	112 (LHD) 122 (RHD)	Upper the Rear Axle Housing Left
BM	112 (LHD) 122 (RHD)	Under the Rear RH Seat

 **: SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	116 (RHD)	Engine Room Main Wire	I7	110 (LHD)	Cowl Wire
E3	106 (LHD)		I12	120 (RHD)	

TAILLIGHT


TAILLIGHT RELAY
1
5
2
3
10A TAIL
1 1A
4 1J
4 1B
11 1B
4 1H
W
G-W
G
7 D
TRLY
TAIL
16 A
B5 A, B8 D
BODY ECU
G-R
G (RHD)
G-W (LHD)
14 I11
E5
5
140A ALT
F11 FUSIBLE LINK BLOCK
3
BATTERY
C15 LIGHT CONTROL SW [COMB. SW]
OFF
TAIL
HEAD
14
16
W-B
2
F1 FRONT CLEARANCE LIGHT LH
F2 FRONT CLEARANCE LIGHT RH
1
A
J5 JUNCTION CONNECTOR
J2 JUNCTION CONNECTOR
J1 JUNCTION CONNECTOR
IE
ED
EA


FROM POWER SOURCE SYSTEM (SEE PAGE 134)
15A HEATER
7.5A GAUGE
13 1K
2 1H
R-W
G-R (LHD)
R-Y (RHD)
R-L
1 3A
5 3E
18
13 IE1
C12 REAR LIGHTS WARNING LIGHT [COMB. METER ECU]
E A J3 B, J4 A
JUNCTION CONNECTOR
D B
10 IA1
G
J11 JUNCTION CONNECTOR
L2 LIGHT FAILURE SENSOR
3
4
8
T+
IL
IG
GND
T-
9 BC2
1
L1 LICENSE PLATE LIGHT
11
W-B
2
9
G-O
4 BC2
C
D
J13 JUNCTION CONNECTOR
J11 JUNCTION CONNECTOR
13 BD1
J12 JUNCTION CONNECTOR
A
R10 TAILLIGHT LH [REAR COMB. LIGHT LH]
R12 TAILLIGHT RH [REAR COMB. LIGHT RH]
R11 TAILLIGHT LH [REAR COMB. LIGHT LH]
R13 TAILLIGHT RH [REAR COMB. LIGHT RH]
J14 JUNCTION CONNECTOR
J15 JUNCTION CONNECTOR
BI
BM
BN

TAILLIGHT

SYSTEM OUTLINE

When the light control SW is turned to the TAIL or HEAD position, the signal is input to TERMINAL TAIL of the body ECU. This activates the body ECU to flow the current from the battery into the ALT fuse, taillight relay (Coil side), TERMINAL TRLY of the body ECU to GROUND in that order to turn on the taillight relay. The current flows from the TAIL fuse into the front clearance lights, license plate lights, TERMINAL 3 of the light failure sensor to TERMINAL 9 to taillights in that order to turn on each light.

TAILLIGHT DISCONNECTION WARNING

If any taillight wiring is faulty when the ignition SW is turned to the ON position with the light control SW set at TAIL or HEAD, the light failure sensor detects a voltage difference and is activated to turn on the rear lights warning light in the combination meter to warn the driver. The warning light is remained lit until the ignition SW is turned to the OFF position.

SERVICE HINTS

C15 LIGHT CONTROL SW [COMB. SW]

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

L2 LIGHT FAILURE SENSOR

8–GROUND : Approx. **12** volts with the ignition SW at **ON** position
3–GROUND : Approx. **12** volts with the light control SW at **TAIL** or **HEAD** position
11–GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5 A	92 (LHD) 100 (RHD)	J2	91 (LHD) 99 (RHD)	J15	94 (LHD) 102 (RHD)
B8 D	92 (LHD) 100 (RHD)	J3 B	93 (LHD) 101 (RHD)	L1	94 (LHD) 102 (RHD)
C12	92 (LHD) 100 (RHD)	J4 A	93 (LHD) 101 (RHD)	L2	94 (LHD) 102 (RHD)
C15	92 (LHD) 100 (RHD)	J5	93 (LHD) 101 (RHD)	R10	95 (LHD) 103 (RHD)
F1	90 (LHD) 98 (RHD)	J11	94 (LHD) 102 (RHD)	R11	95 (LHD) 103 (RHD)
F2	90 (LHD) 98 (RHD)	J12	94 (LHD) 102 (RHD)	R12	95 (LHD) 103 (RHD)
F11	90 (LHD) 98 (RHD)	J13	94 (LHD) 102 (RHD)	R13	95 (LHD) 103 (RHD)
J1	91 (LHD) 99 (RHD)	J14	94 (LHD) 102 (RHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1H	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1K	78 (LHD)	
	80 (RHD)	
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	108 (LHD) 118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IE1	108 (LHD) 118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
BC2	112 (LHD) 122 (RHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD1	112 (LHD) 122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

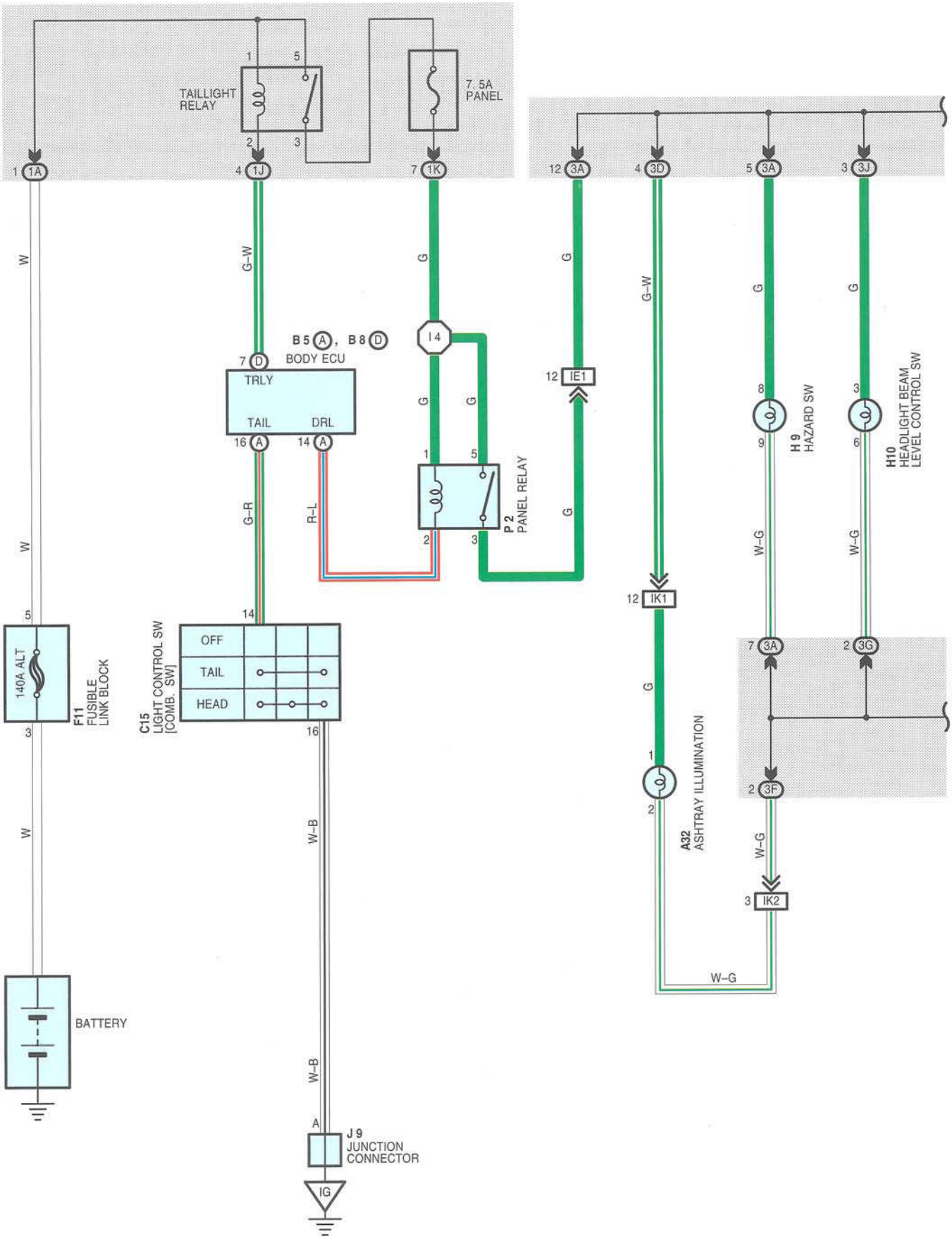
: GROUND POINTS

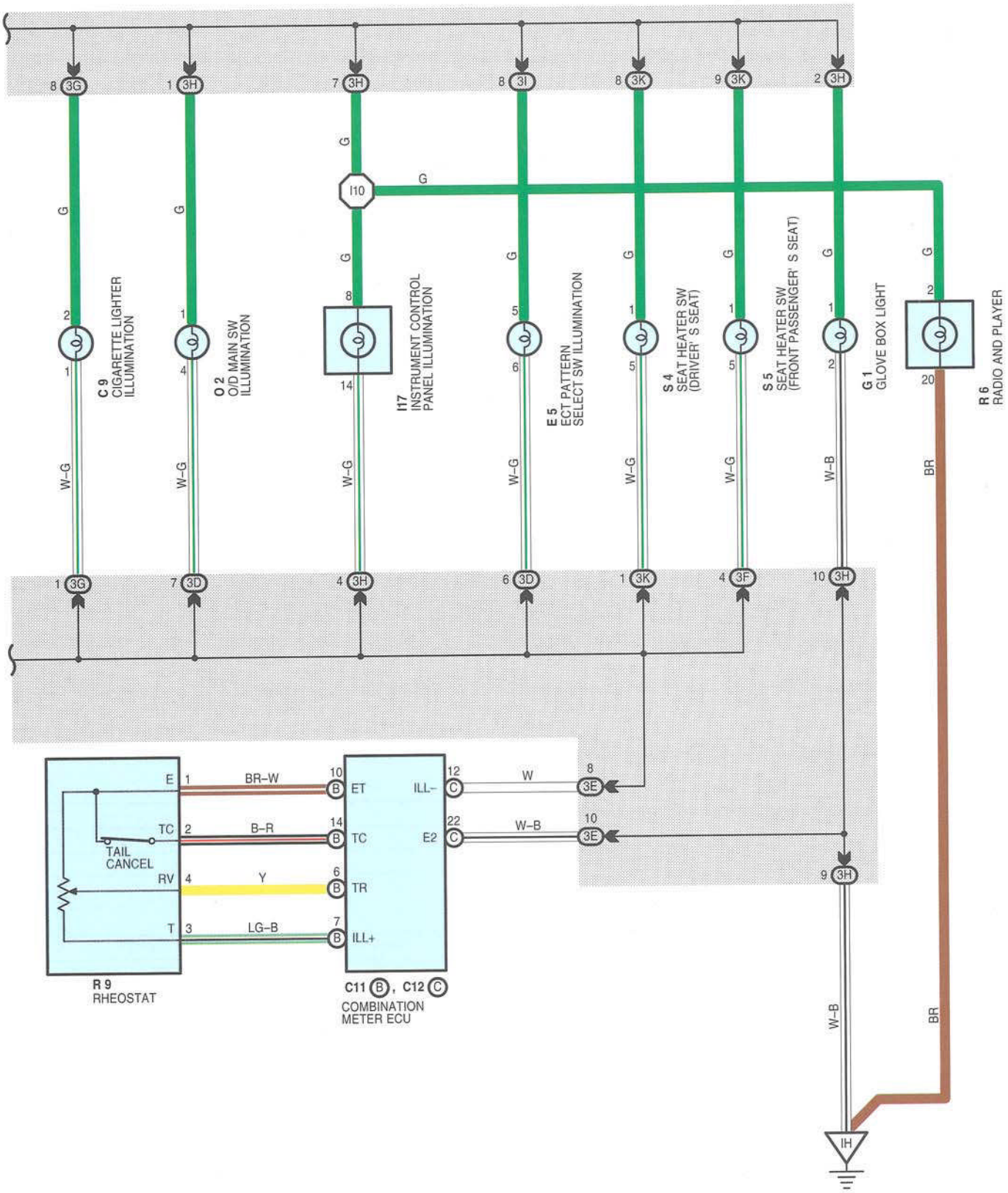
Code	See Page	Ground Points Location
EA	106 (LHD) 116 (RHD)	Engine Compartment Right
ED	106 (LHD) 116 (RHD)	Right Radiator Side Support
IE	108 (LHD) 118 (RHD)	Cowl Side Panel LH
BI	112 (LHD) 122 (RHD)	Upper the Rear Axle Housing Left
BM	112 (LHD) 122 (RHD)	Under the Rear RH Seat
BN	112 (LHD) 122 (RHD)	Back Panel Center

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E5	106 (LHD)	Engine Room Main Wire			

ILLUMINATION (LHD)




C 9
CIGARETTE LIGHTER ILLUMINATION
O 2
O/D MAIN SW ILLUMINATION
I17
INSTRUMENT CONTROL PANEL ILLUMINATION
E 5
ECT PATTERN SELECT SW ILLUMINATION
S 4
SEAT HEATER SW (DRIVER' S SEAT)
S 5
SEAT HEATER SW (FRONT PASSENGER' S SEAT)
G 1
GLOVE BOX LIGHT
R 6
RADIO AND PLAYER
I10
TAIL CANCEL
R 9
RHEOSTAT
C11 B , C12 C
COMBINATION METER ECU
BR-W
B-R
Y
LG-B
W
W-B
W-G
BR
G
ET
TC
TR
ILL+
ILL-
E2
E
RV
T
IH

ILLUMINATION (LHD)

SERVICE HINTS

TAILLIGHT RELAY

5-3 : Closed with the light control SW at **TAIL** or **HEAD** position

C15 LIGHT CONTROL SW [COMB. 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
A32	92 (LHD)	E5	92 (LHD)	O2	93 (LHD)
B5 A	92 (LHD)	F11	90 (LHD)	P2	93 (LHD)
B8 D	92 (LHD)	G1	93 (LHD)	R6	93 (LHD)
C9	92 (LHD)	H9	93 (LHD)	R9	93 (LHD)
C11 B	92 (LHD)	H10	93 (LHD)	S4	93 (LHD)
C12 C	92 (LHD)	I17	93 (LHD)	S5	93 (LHD)
C15	92 (LHD)	J9	93 (LHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3E		
3F		
3G		
3H		
3I		
3J		
3K		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

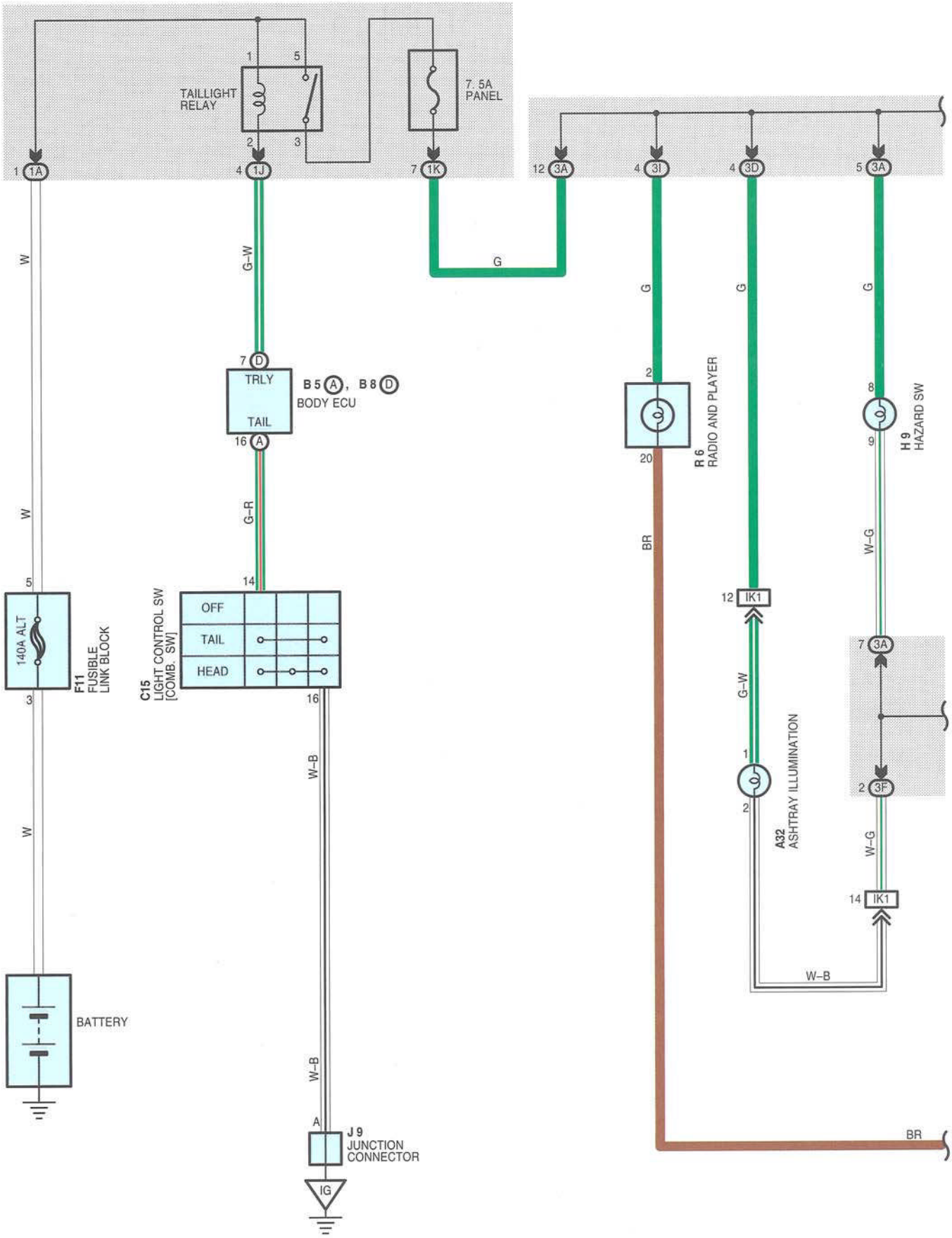
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IK1	110 (LHD)	Floor Wire and Instrument Panel Wire (Behind the Glove Box)
IK2		

▽ : GROUND POINTS

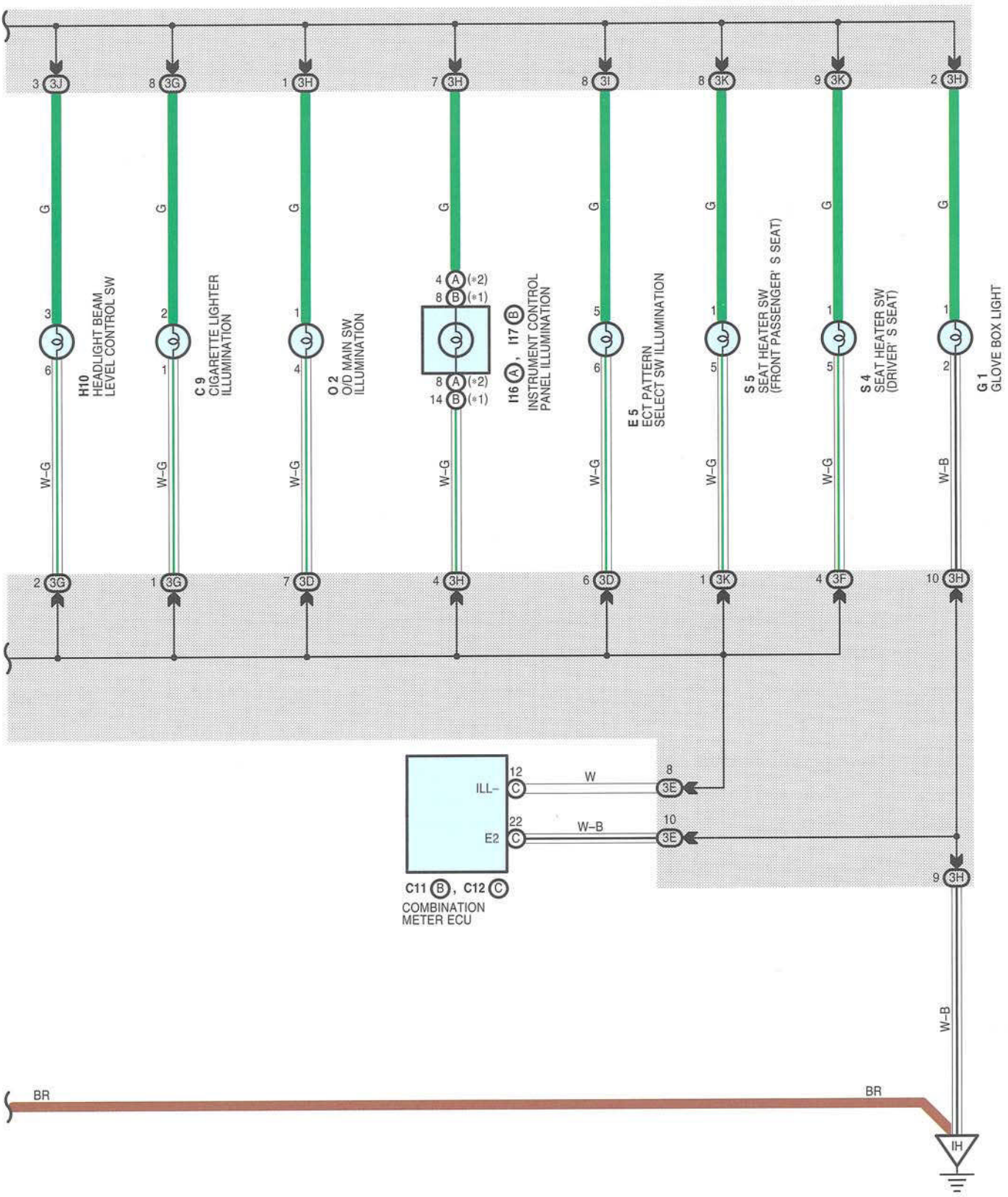
Code	See Page	Ground Points Location
IG	108 (LHD)	Cowl Side Panel RH
IH	108 (LHD)	Instrument Panel Brace RH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	110 (LHD)	Cowl Wire	I10	110 (LHD)	Instrument Panel Wire


TAILLIGHT RELAY
7. 5A PANEL
1A
1J
1K
3A
3I
3D
3A
W
G-W
G
TRLY
TAIL
B5 A, B8 D
BODY ECU
16 A
G-R
R6
RADIO AND PLAYER
H9
HAZARD SW
W-G
140A ALT
F11
FUSIBLE LINK BLOCK
C15
LIGHT CONTROL SW [COMB. SW]
OFF
TAIL
HEAD
BR
IK1
A32
ASHTRAY ILLUMINATION
3F
W-B
BATTERY
J9
JUNCTION CONNECTOR
IG

* 1 : EUROPE
* 2 : EXCEPT EUROPE



ILLUMINATION (RHD)

SERVICE HINTS

TAILLIGHT RELAY

5-3 : Closed with the light control SW at **TAIL** or **HEAD** position

C15 LIGHT CONTROL SW [COMB. 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
A32	100 (RHD)	E5	100 (RHD)	J9	101 (RHD)
B5 A	100 (RHD)	F11	98 (RHD)	O2	101 (RHD)
B8 D	100 (RHD)	G1	101 (RHD)	R6	101 (RHD)
C9	100 (RHD)	H9	101 (RHD)	S4	101 (RHD)
C11 B	100 (RHD)	H10	101 (RHD)	S5	101 (RHD)
C12 C	100 (RHD)	I16 A	101 (RHD)		
C15	100 (RHD)	I17 B	101 (RHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1J	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3E		
3F		
3G		
3H		
3I		
3J		
3K		

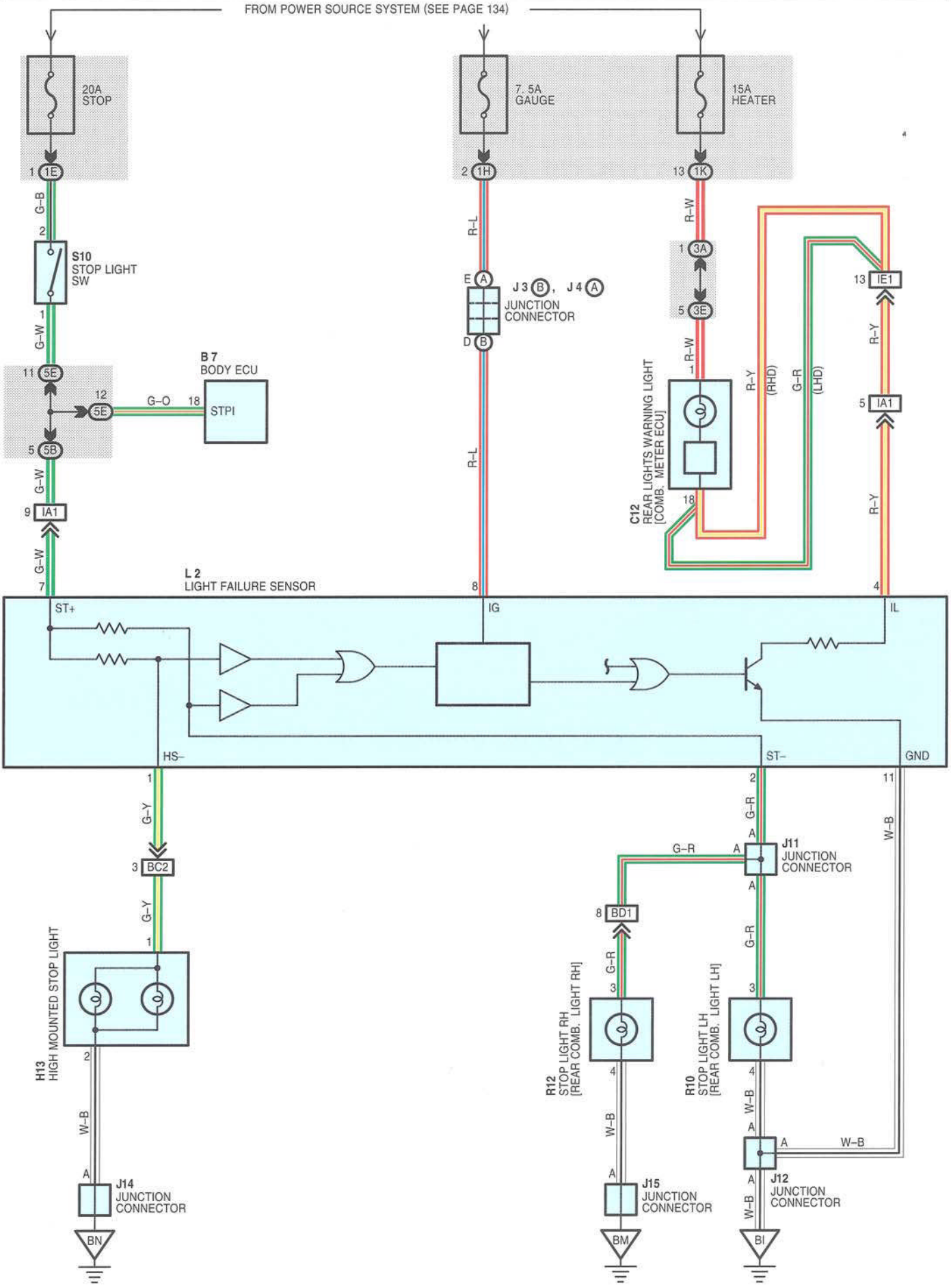
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IK1	120 (RHD)	Instrument Panel Wire and Floor Wire (Instrument Panel Brace RH)

: GROUND POINTS

Code	See Page	Ground Points Location
IG	118 (RHD)	Cowl Side Panel RH
IH	118 (RHD)	Instrument Panel Brace RH

STOP LIGHT


FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A STOP
7.5A GAUGE
15A HEATER
1E
1H
1K
G-B
R-L
R-W
S10 STOP LIGHT SW
3A
3E
J3 B, J4 A JUNCTION CONNECTOR
E A
D B
G-W
11 5E
12 5E
G-O
18
STPI
B7 BODY ECU
5 5B
9 IA1
13 IE1
5 IA1
R-Y
C12 REAR LIGHTS WARNING LIGHT [COMB. METER ECU]
18
R-Y (RHD)
G-R (LHD)
L2 LIGHT FAILURE SENSOR
7
8
4
ST+
IG
IL
HS-
ST-
GND
11
W-B
G-Y
3 BC2
2
G-R
A
J11 JUNCTION CONNECTOR
8 BD1
H13 HIGH MOUNTED STOP LIGHT
R12 STOP LIGHT RH [REAR COMB. LIGHT RH]
R10 STOP LIGHT LH [REAR COMB. LIGHT LH]
J14 JUNCTION CONNECTOR
J15 JUNCTION CONNECTOR
J12 JUNCTION CONNECTOR
BN
BM
BI

SYSTEM OUTLINE

The current always flows from the STOP fuse into TERMINAL 2 of the stop light SW. If the brake pedal is depressed, the stop lights light up.

STOP LIGHT DISCONNECTION WARNING

If any stop light wiring is faulty when the brake pedal is depressed with the ignition SW set at ON, the light failure sensor detects a voltage difference and is activated to turn on the rear lights warning light in the combination meter to warn the driver. The warning light is remained lit until the ignition SW is turned to the OFF position.

SERVICE HINTS

S10 STOP LIGHT SW

1-2 : Closed with the brake pedal depressed

L2 LIGHT FAILURE SENSOR

7-GROUND : Approx. **12** volts with the stop light SW on
8-GROUND : Approx. **12** volts with the ignition SW at **ON** position
11-GROUND : Always continuity

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
B7		92 (LHD)	J4	A	101 (RHD)	L2	94 (LHD)
		100 (RHD)	J11		94 (LHD)		102 (RHD)
C12		92 (LHD)			102 (RHD)	R10	95 (LHD)
		100 (RHD)	J12		94 (LHD)		103 (RHD)
H13		94 (LHD)			102 (RHD)	R12	95 (LHD)
		102 (RHD)	J14		94 (LHD)		103 (RHD)
J3	B	93 (LHD)			102 (RHD)	S10	93 (LHD)
		101 (RHD)	J15		94 (LHD)		101 (RHD)
J4	A	93 (LHD)			102 (RHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1H	78 (LHD)	
	80 (RHD)	
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5E		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

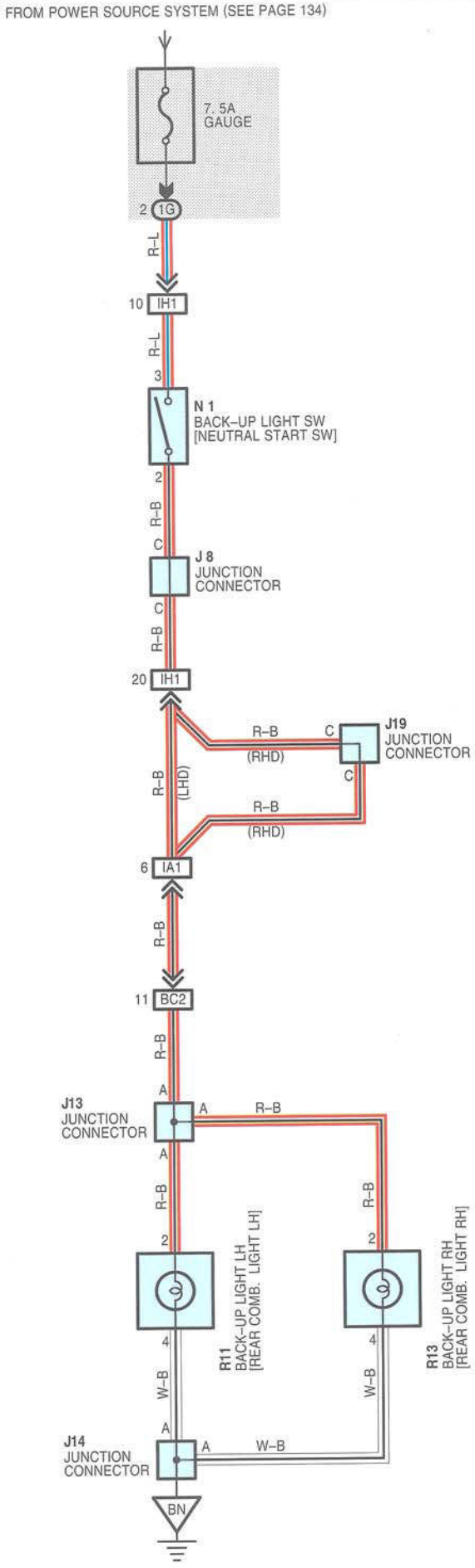
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
	118 (RHD)	
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
	118 (RHD)	
BC2	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
	122 (RHD)	
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)
	122 (RHD)	

STOP LIGHT

▽ : GROUND POINTS

Code	See Page	Ground Points Location
BI	112 (LHD) 122 (RHD)	Upper the Rear Axle Housing Left
BM	112 (LHD) 122 (RHD)	Under the Rear RH Seat
BN	112 (LHD) 122 (RHD)	Back Panel Center

BACK-UP LIGHT



SERVICE HINTS

N1 BACK-UP LIGHT SW [NEUTRAL START SW]

3-2 : Closed with the shift lever in **R** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J8	93 (LHD)	J14	102 (RHD)	R11	103 (RHD)
	101 (RHD)	J19	101 (RHD)	R13	95 (LHD)
J13	94 (LHD)	N1	91 (LHD)		103 (RHD)
	102 (RHD)		99 (RHD)		
J14	94 (LHD)	R11	95 (LHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

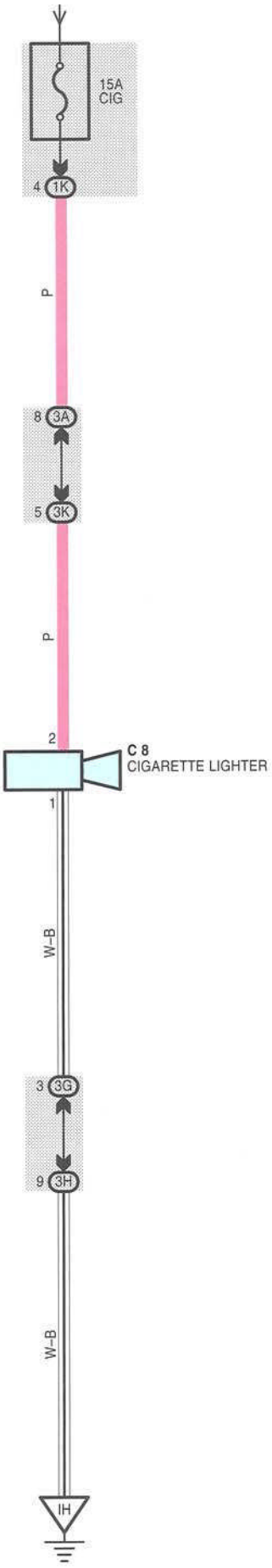
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
	118 (RHD)	
IH1	110 (LHD)	Engine Wire and Cowl Wire (Behind the Glove Box)
	120 (RHD)	
BC2	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
	122 (RHD)	

▽ : GROUND POINTS

Code	See Page	Ground Points Location
BN	112 (LHD)	Back Panel Center
	122 (RHD)	

CIGARETTE LIGHTER

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



SERVICE HINTS

C8 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
C8	92 (LHD)	C8	100 (RHD)		

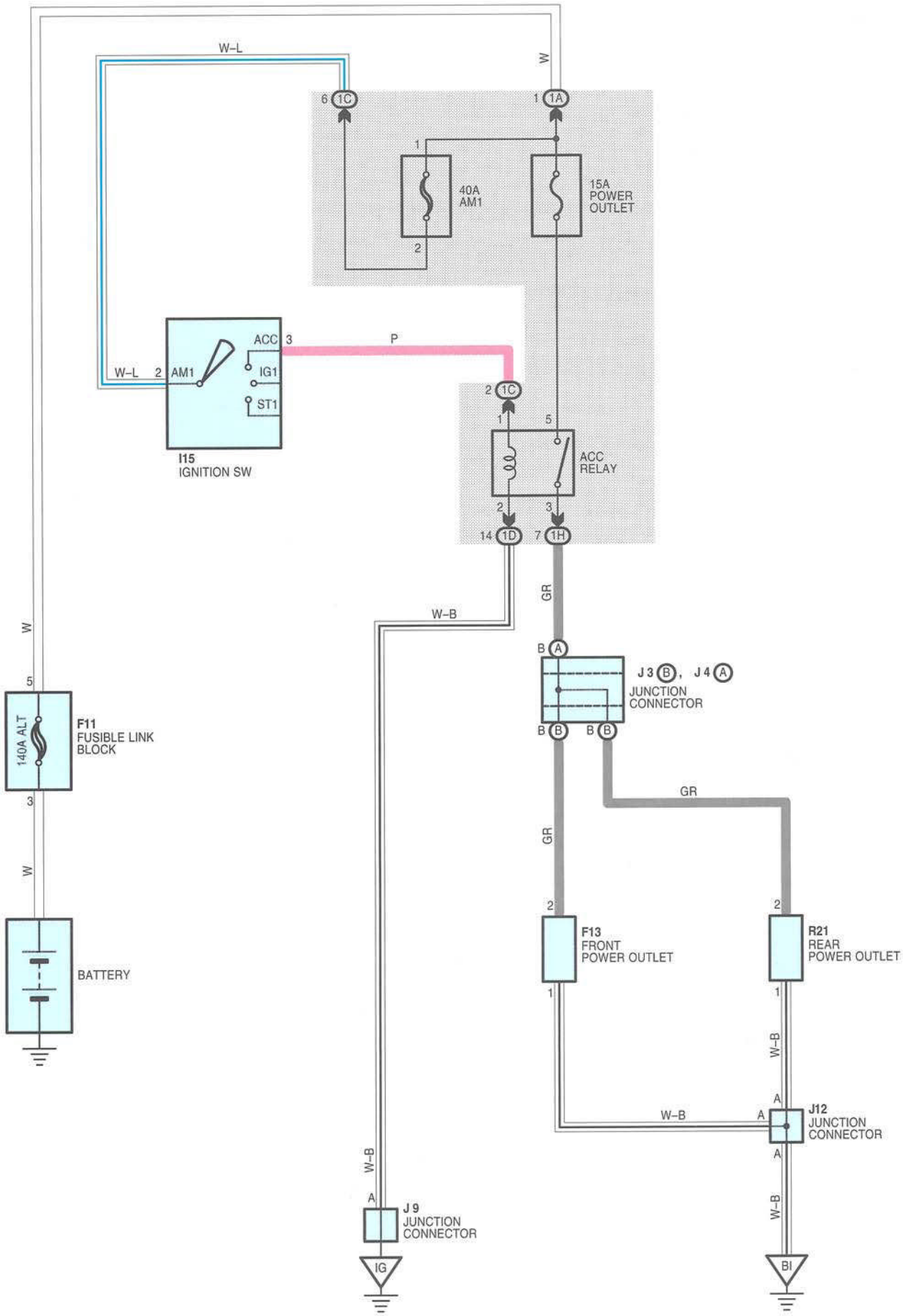
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	78 (LHD) 80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3A 3G 3H 3K	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IH	108 (LHD) 118 (RHD)	Instrument Panel Brace RH

POWER OUTLET



SERVICE HINTS

F13 FRONT POWER OUTLET

2-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
1-GROUND : Always continuity

R21 REAR POWER OUTLET

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
F11	90 (LHD)	J3	B	93 (LHD)	J12	94 (LHD)
	98 (RHD)			101 (RHD)		102 (RHD)
F13	93 (LHD)	J4	A	93 (LHD)	R21	95 (LHD)
	101 (RHD)			101 (RHD)		103 (RHD)
I15	93 (LHD)	J9		93 (LHD)		
	101 (RHD)			101 (RHD)		

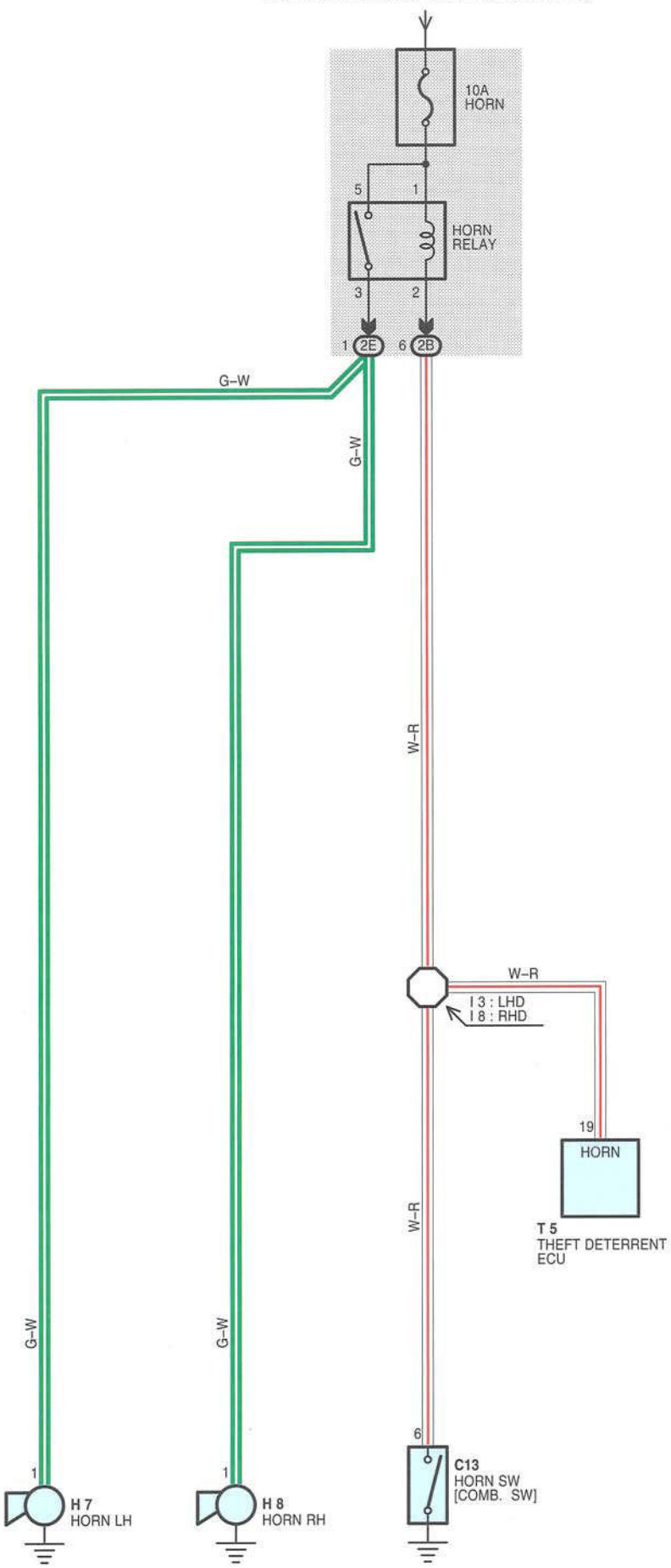
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1C	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1D	78 (LHD)	
	80 (RHD)	
1H	78 (LHD)	
	80 (RHD)	

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IG	108 (LHD)	Cowl Side Panel RH
	118 (RHD)	
BI	112 (LHD)	Upper the Rear Axle Housing Left
	122 (RHD)	

HORN


FROM POWER SOURCE SYSTEM (SEE PAGE 134)
10A
HORN
5
1
HORN
RELAY
3
2
1
2E
6
2B
G–W
G–W
W–R
W–R
I 3 : LHD
I 8 : RHD
19
HORN
T 5
THEFT DETERRENT
ECU
W–R
6
C13
HORN SW
[COMB. SW]
G–W
G–W
1
H 7
HORN LH
1
H 8
HORN RH

SERVICE HINTS

HORN RELAY

5-3 : Closed with the horn SW on

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C13	92 (LHD)	H7	98 (RHD)	T5	93 (LHD)
	100 (RHD)	H8	90 (LHD)		101 (RHD)
H7	90 (LHD)		98 (RHD)		

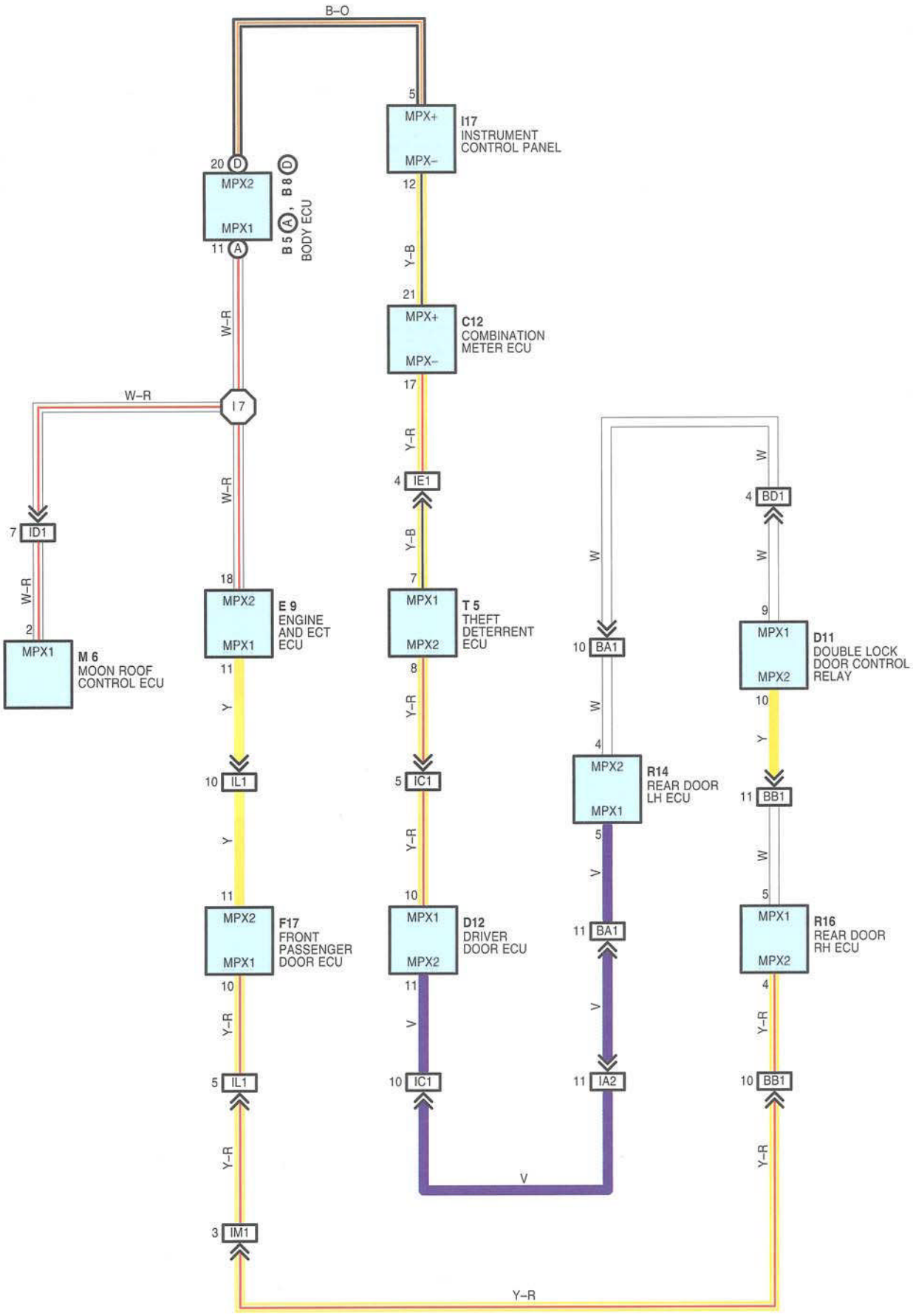
▭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2E	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

⯃ : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I3	110 (LHD)	Cowl Wire	I8	120 (RHD)	Cowl Wire

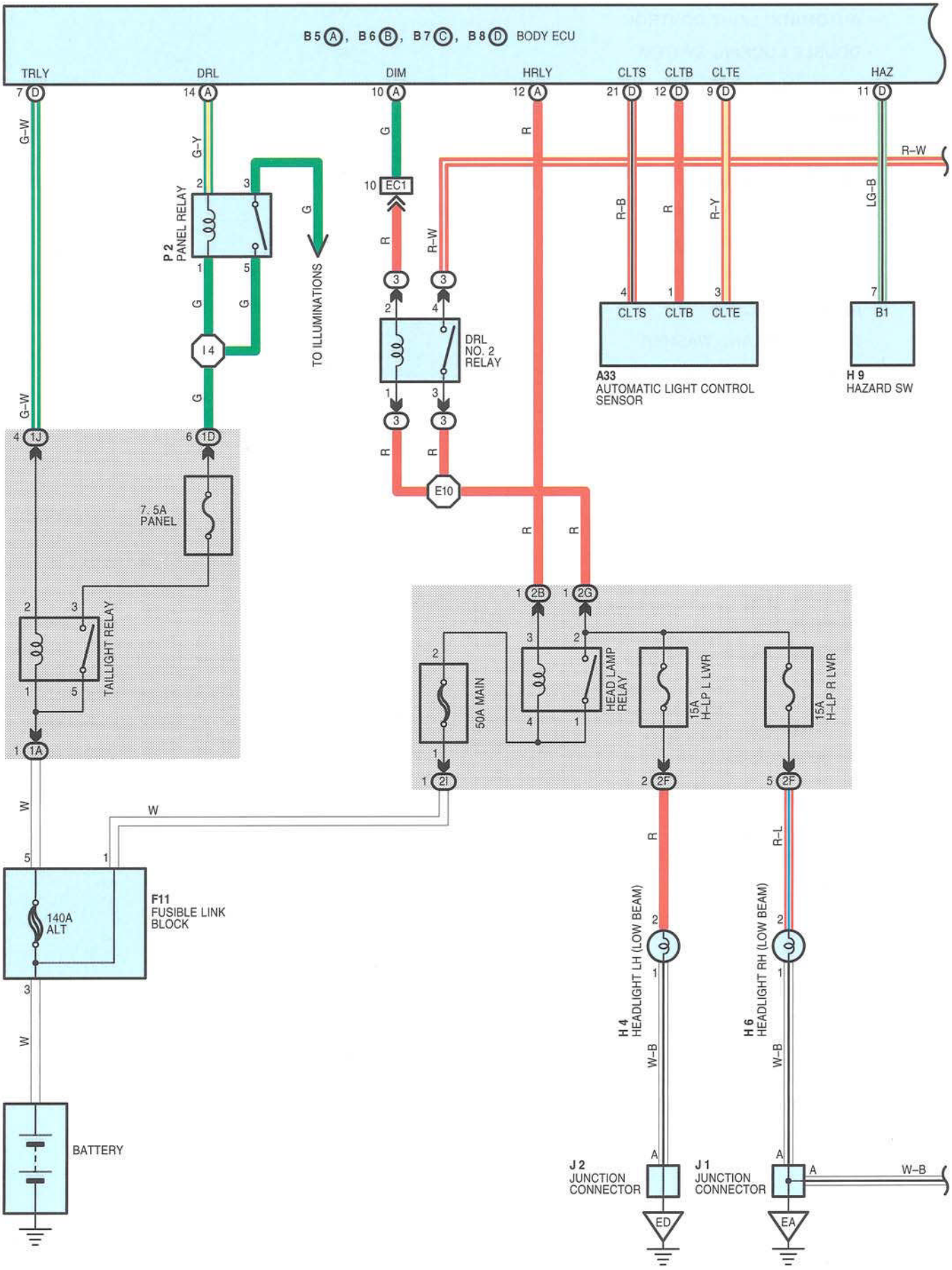
MULTIPLEX COMMUNICATION SYSTEM (COMMUNICATION BUS) [LHD]

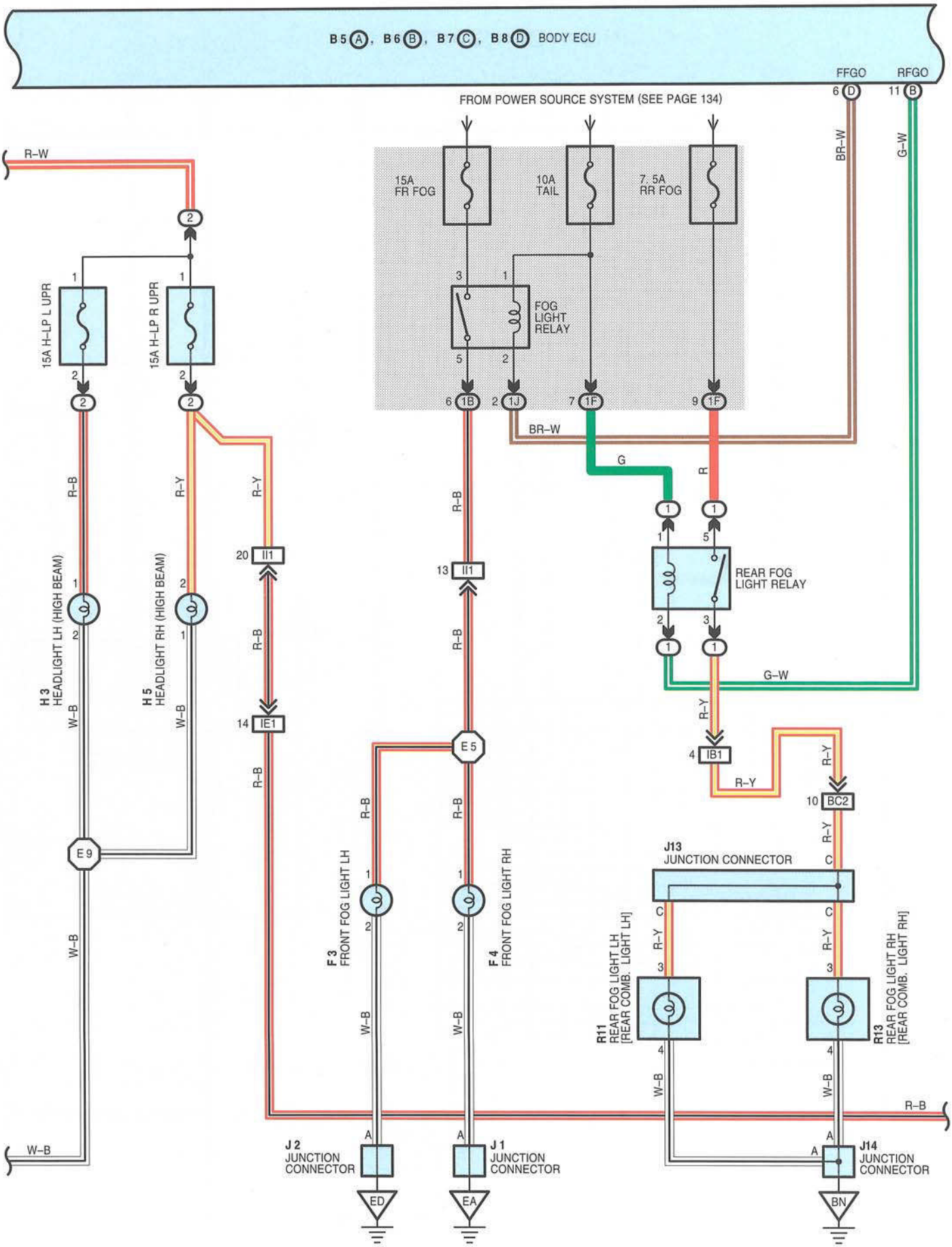


MULTIPLEX COMMUNICATION SYSTEM INCLUDES FOLLOWING SYSTEMS

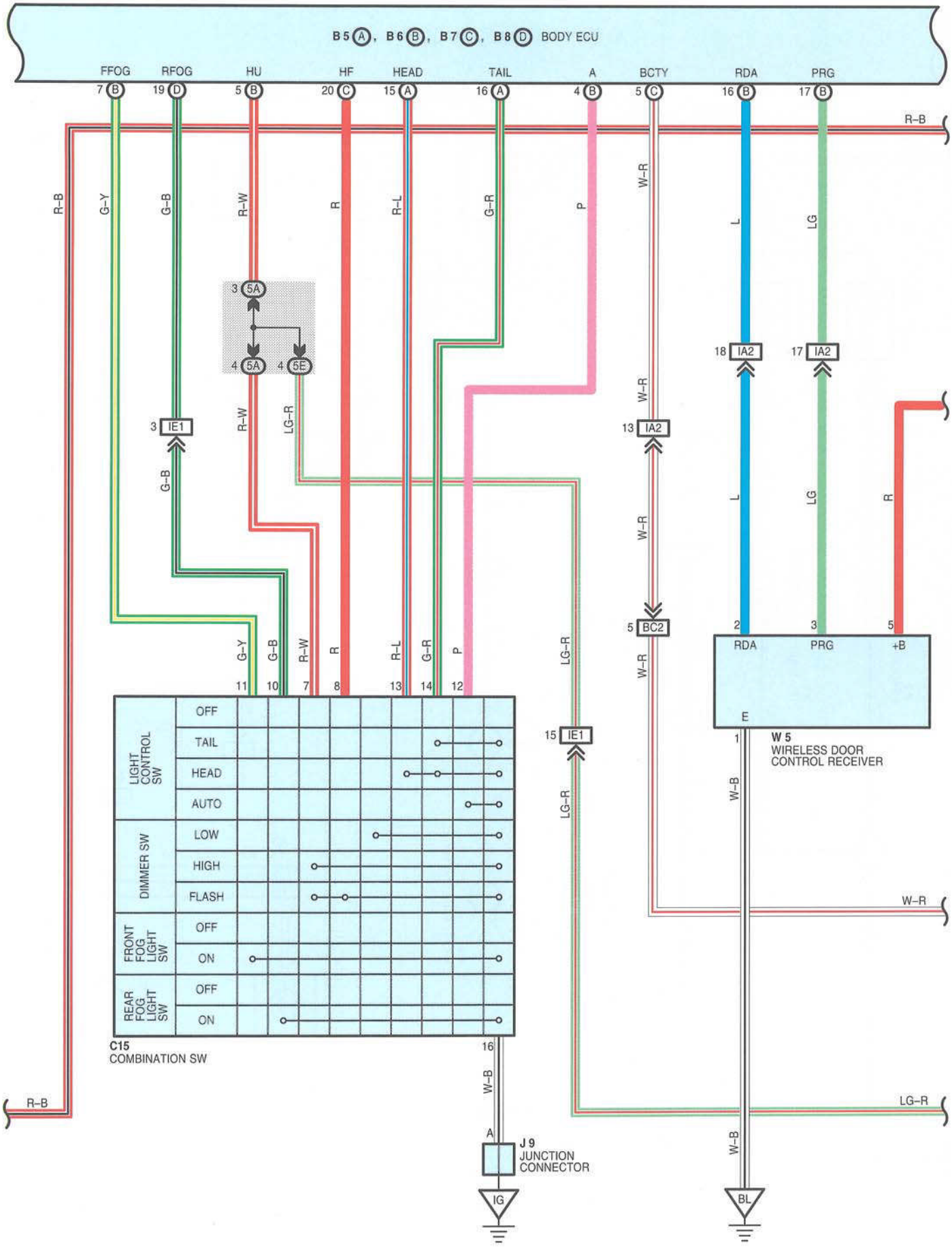
* AUTOMATIC LIGHT CONTROL
* DOUBLE LOCKING SYSTEM
* FRONT FOG LIGHT
* HEADLIGHT
* INTERIOR LIGHT
* SEAT BELT WARNING
* LIGHT AUTO TURN OFF
* LIGHT REMINDER BUZZER
* POWER WINDOW
* REAR FOG LIGHT
* REAR WIPER AND WASHER
* THEFT DETERRENT AND DOOR LOCK CONTROL
* WIRELESS DOOR LOCK CONTROL

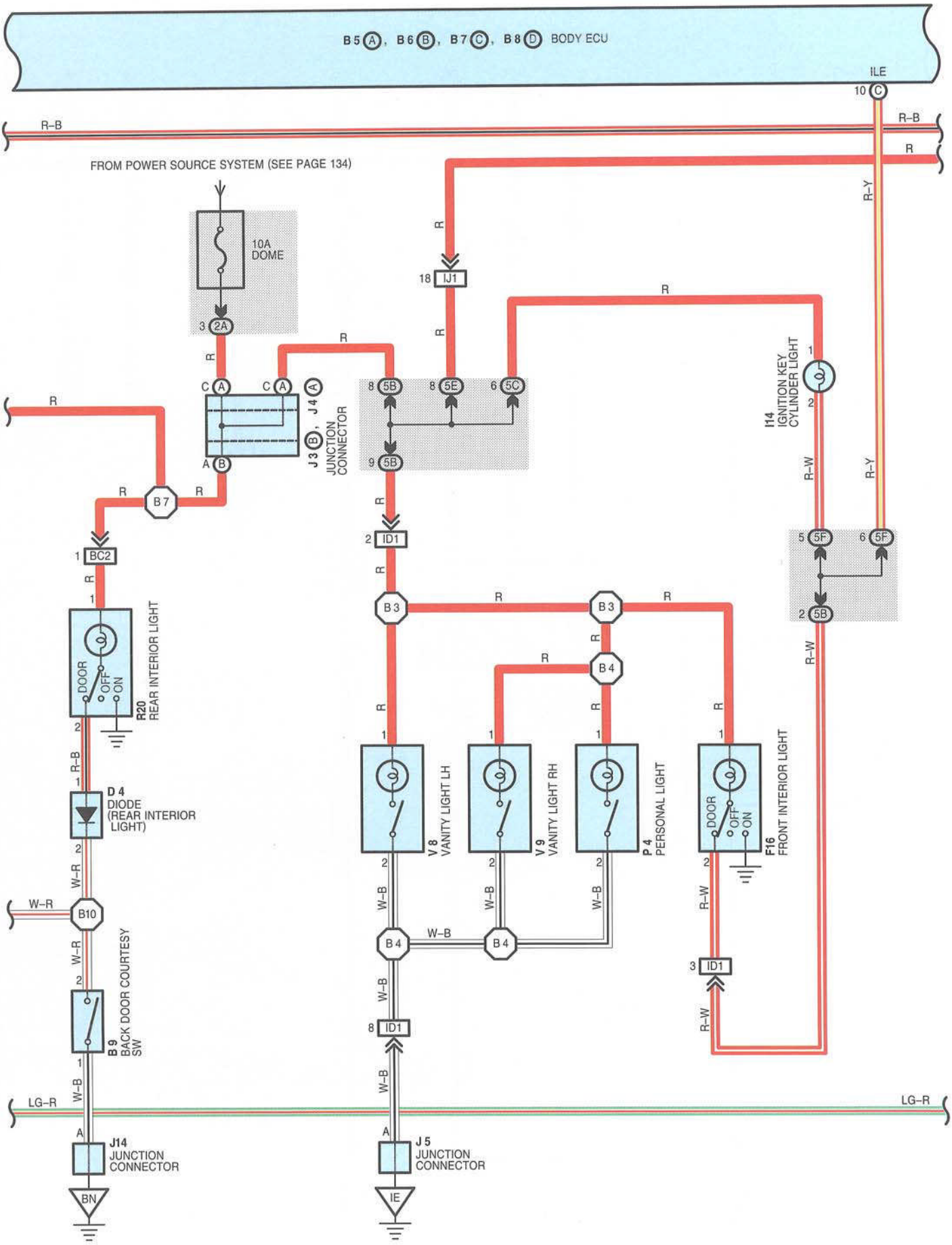
MULTIPLEX COMMUNICATION SYSTEM (LHD)



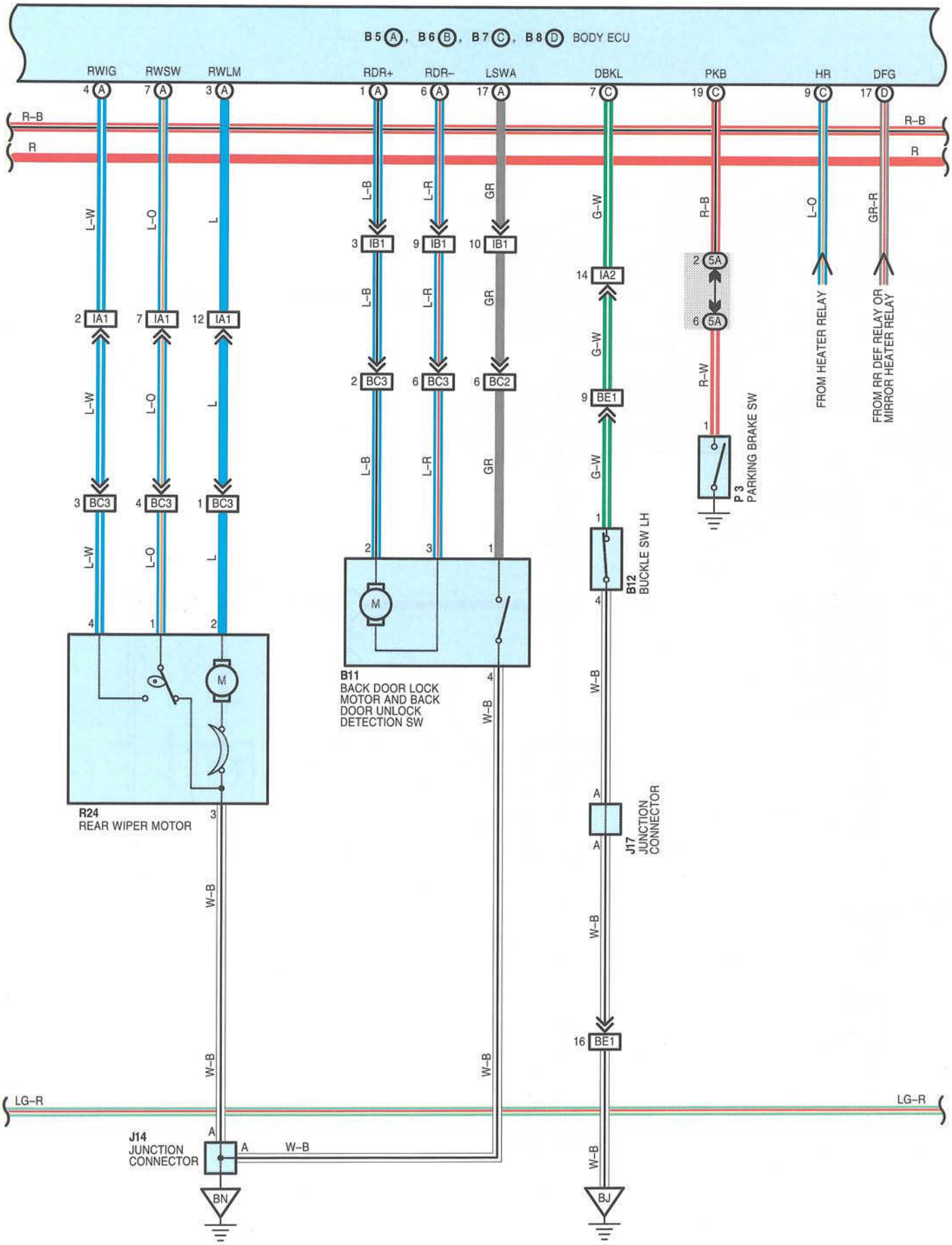

B5 A, B6 B, B7 C, B8 D BODY ECU
FFGO
RFGO
FROM POWER SOURCE SYSTEM (SEE PAGE 134)
15A FR FOG
10A TAIL
7.5A RR FOG
FOG LIGHT RELAY
REAR FOG LIGHT RELAY
15A H-LP L UPR
15A H-LP R UPR
H3 HEADLIGHT LH (HIGH BEAM)
H5 HEADLIGHT RH (HIGH BEAM)
F3 FRONT FOG LIGHT LH
F4 FRONT FOG LIGHT RH
J13 JUNCTION CONNECTOR
R11 REAR FOG LIGHT LH [REAR COMB. LIGHT LH]
R13 REAR FOG LIGHT RH [REAR COMB. LIGHT RH]
J2 JUNCTION CONNECTOR
J1 JUNCTION CONNECTOR
J14 JUNCTION CONNECTOR
E9
E5
II1
IE1
IB1
BC2
ED
EA
BN
R-W
W-B
R-B
R-Y
BR-W
G
G-W

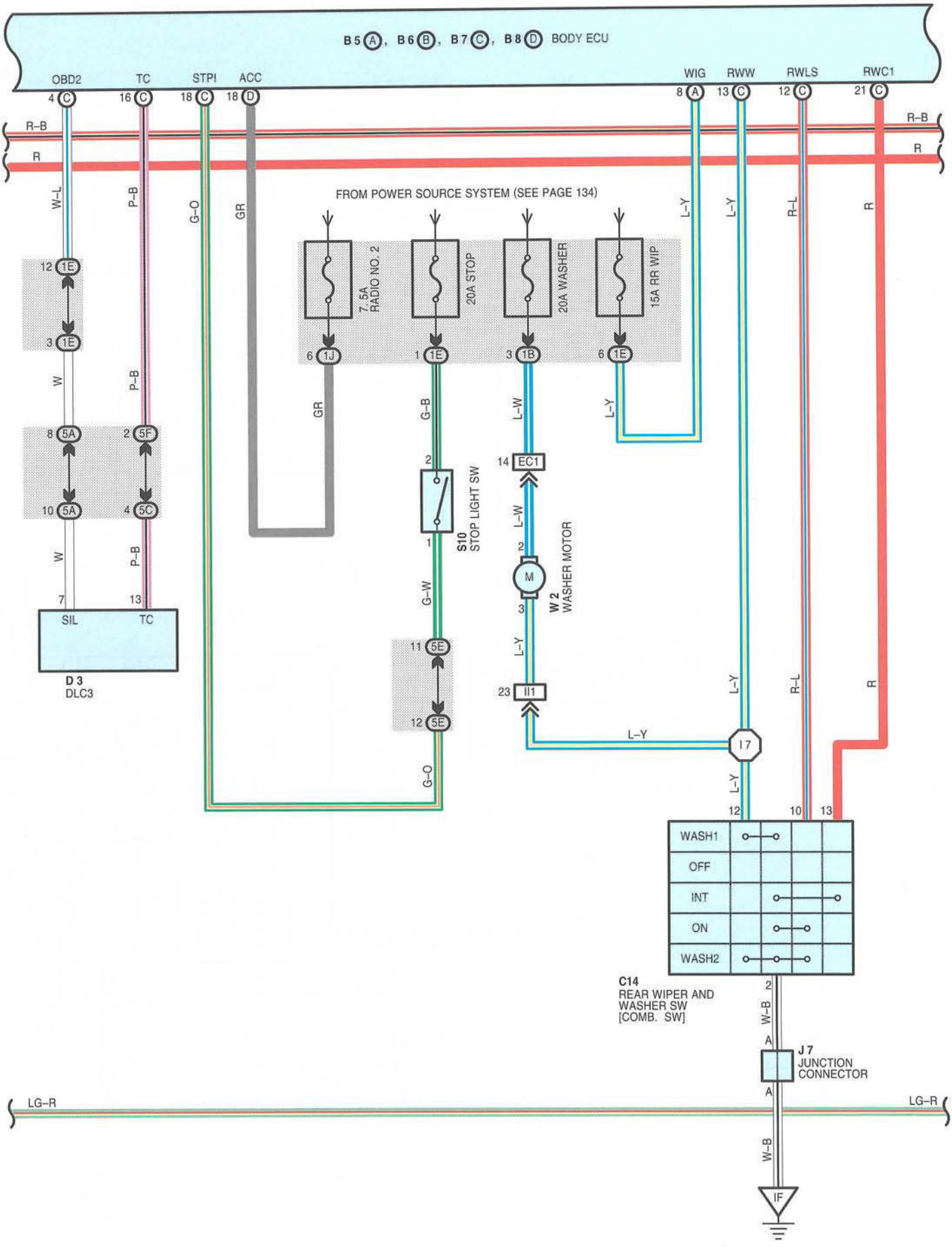
MULTIPLEX COMMUNICATION SYSTEM (LHD)



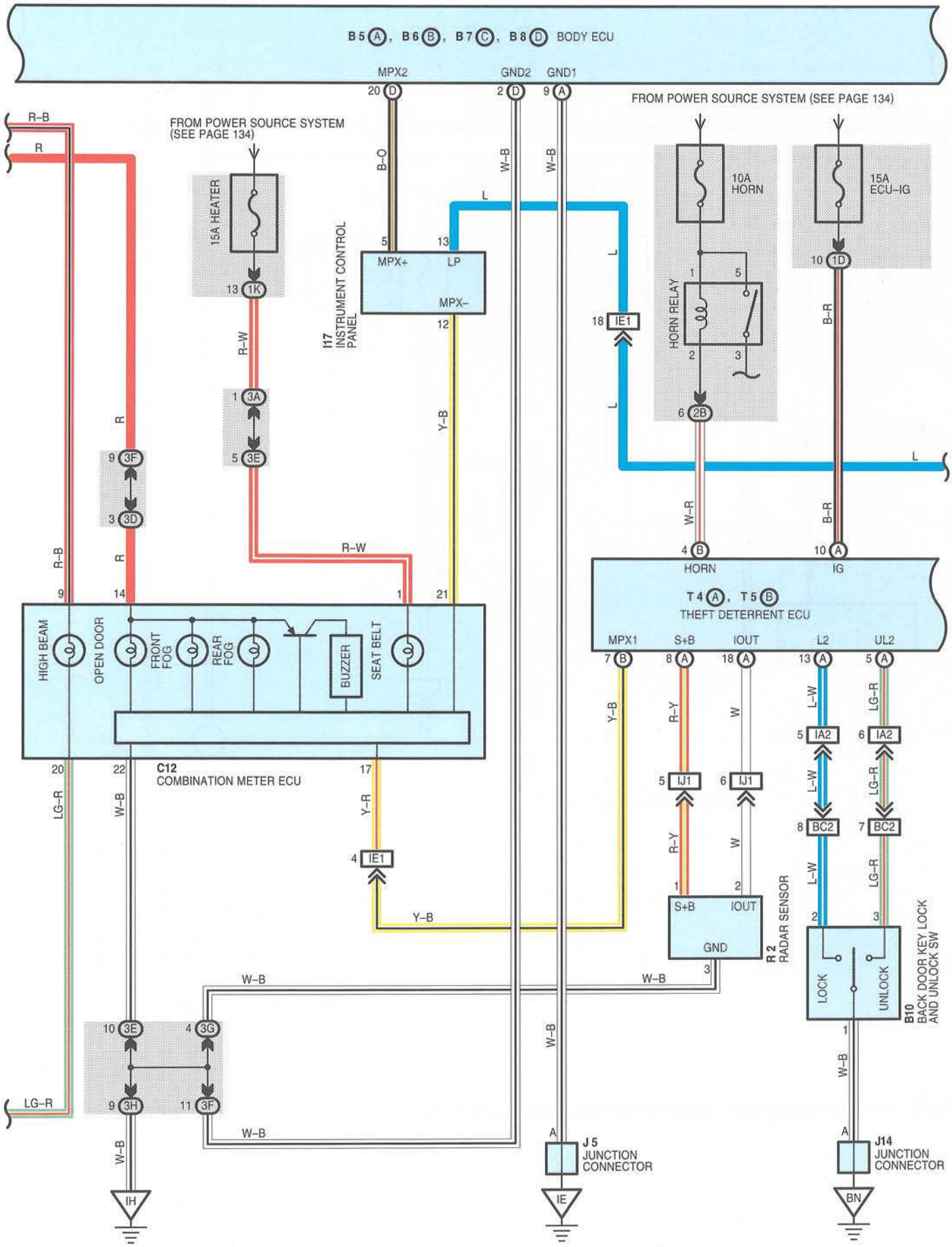

B5 (A), B6 (B), B7 (C), B8 (D) BODY ECU
ILE
10 C
R-B
R
R-Y
FROM POWER SOURCE SYSTEM (SEE PAGE 134)
10A DOME
3 2A
18 IJ1
8 5B
8 5E
6 5C
9 5B
J3 (B), J4 (A) JUNCTION CONNECTOR
I14 IGNITION KEY CYLINDER LIGHT
R-W
5 5F
6 5F
2 5B
B7
1 BC2
2 ID1
B3
B4
R20 REAR INTERIOR LIGHT
DOOR
OFF
ON
D4 DIODE (REAR INTERIOR LIGHT)
W-R
B10
B9 BACK DOOR COURTESY SW
W-B
V8 VANITY LIGHT LH
V9 VANITY LIGHT RH
P4 PERSONAL LIGHT
F16 FRONT INTERIOR LIGHT
3 ID1
8 ID1
LG-R
J14 JUNCTION CONNECTOR
J5 JUNCTION CONNECTOR
BN
IE

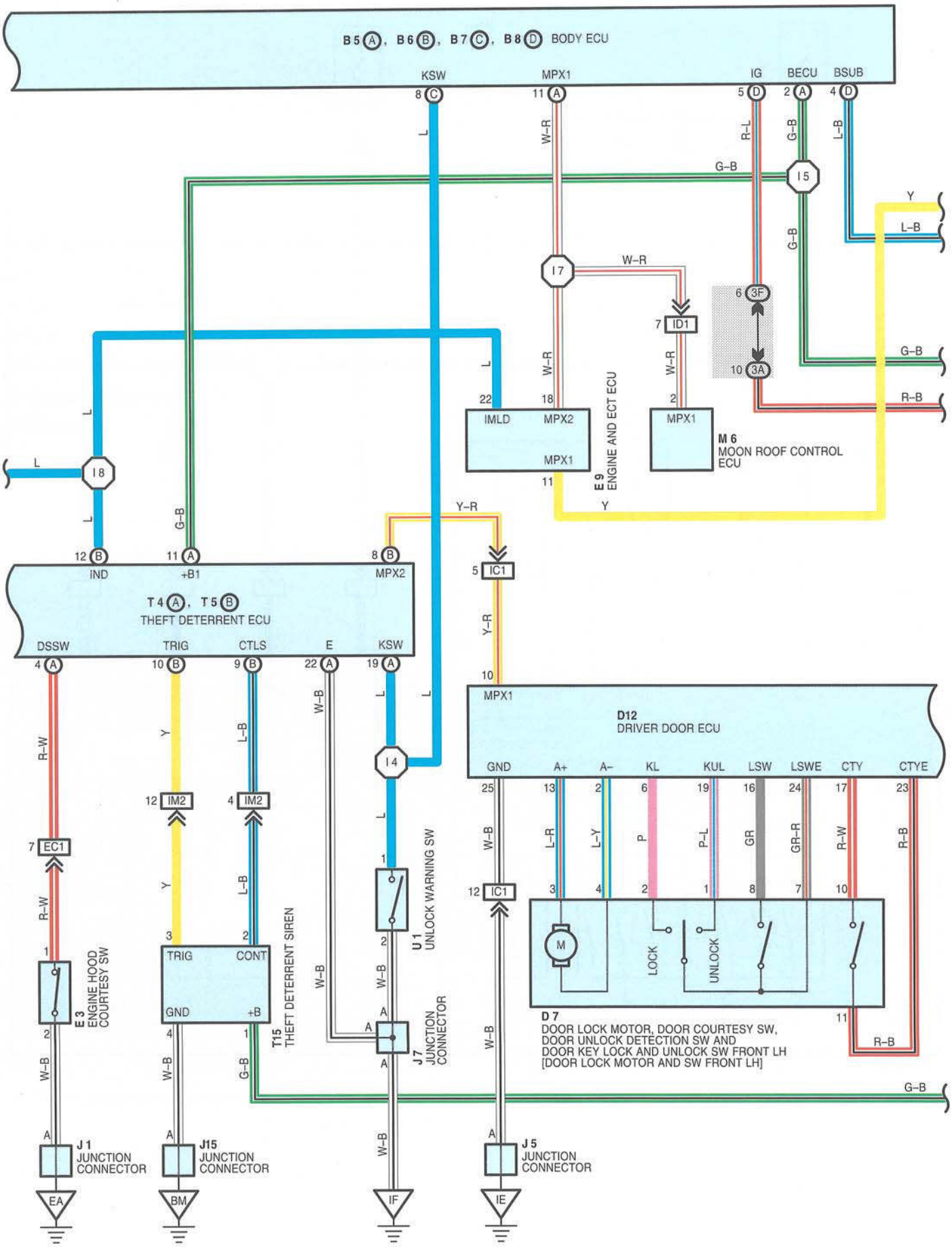
MULTIPLEX COMMUNICATION SYSTEM (LHD)



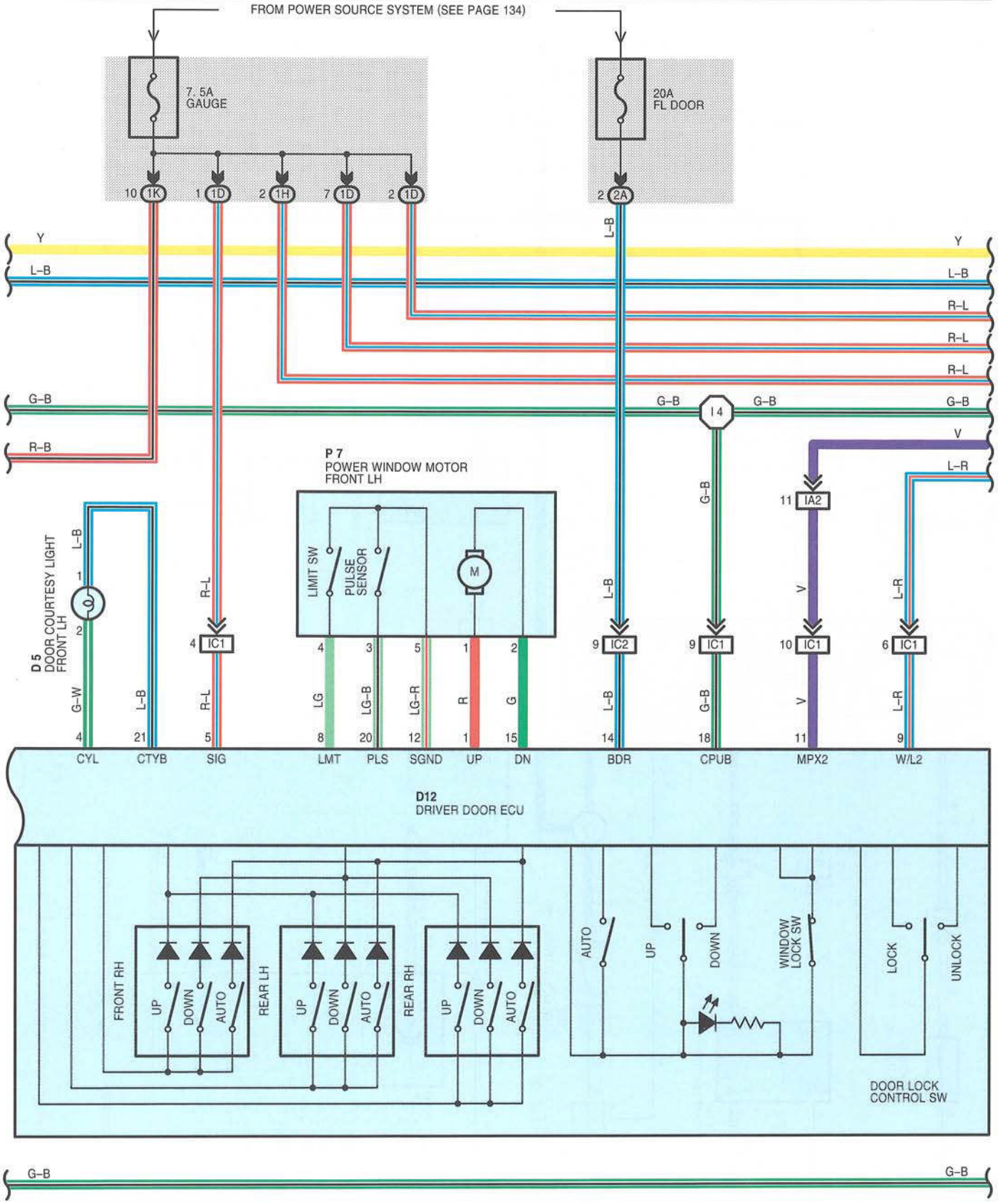

B5 A, B6 B, B7 C, B8 D BODY ECU
OBD2
TC
STPI
ACC
WIG
RWW
RWLS
RWC1
4 C
16 C
18 C
18 D
8 A
13 C
12 C
21 C
R-B
R
W-L
P-B
G-O
GR
L-Y
R-L
R
FROM POWER SOURCE SYSTEM (SEE PAGE 134)
7.5A RADIO NO. 2
20A STOP
20A WASHER
15A RR WIP
6 1J
1 1E
3 1B
6 1E
12 1E
3 1E
W
8 5A
2 5F
10 5A
4 5C
7
13
SIL
TC
D 3
DLC3
G-B
L-W
2
S10
STOP LIGHT SW
1
G-W
11 5E
12 5E
14 EC1
2
M
3
W 2
WASHER MOTOR
23 II1
I 7
12
10
13
WASH1
OFF
INT
ON
WASH2
C14
REAR WIPER AND
WASHER SW
[COMB. SW]
2
W-B
A
J 7
JUNCTION
CONNECTOR
A
LG-R
LG-R
W-B
IF

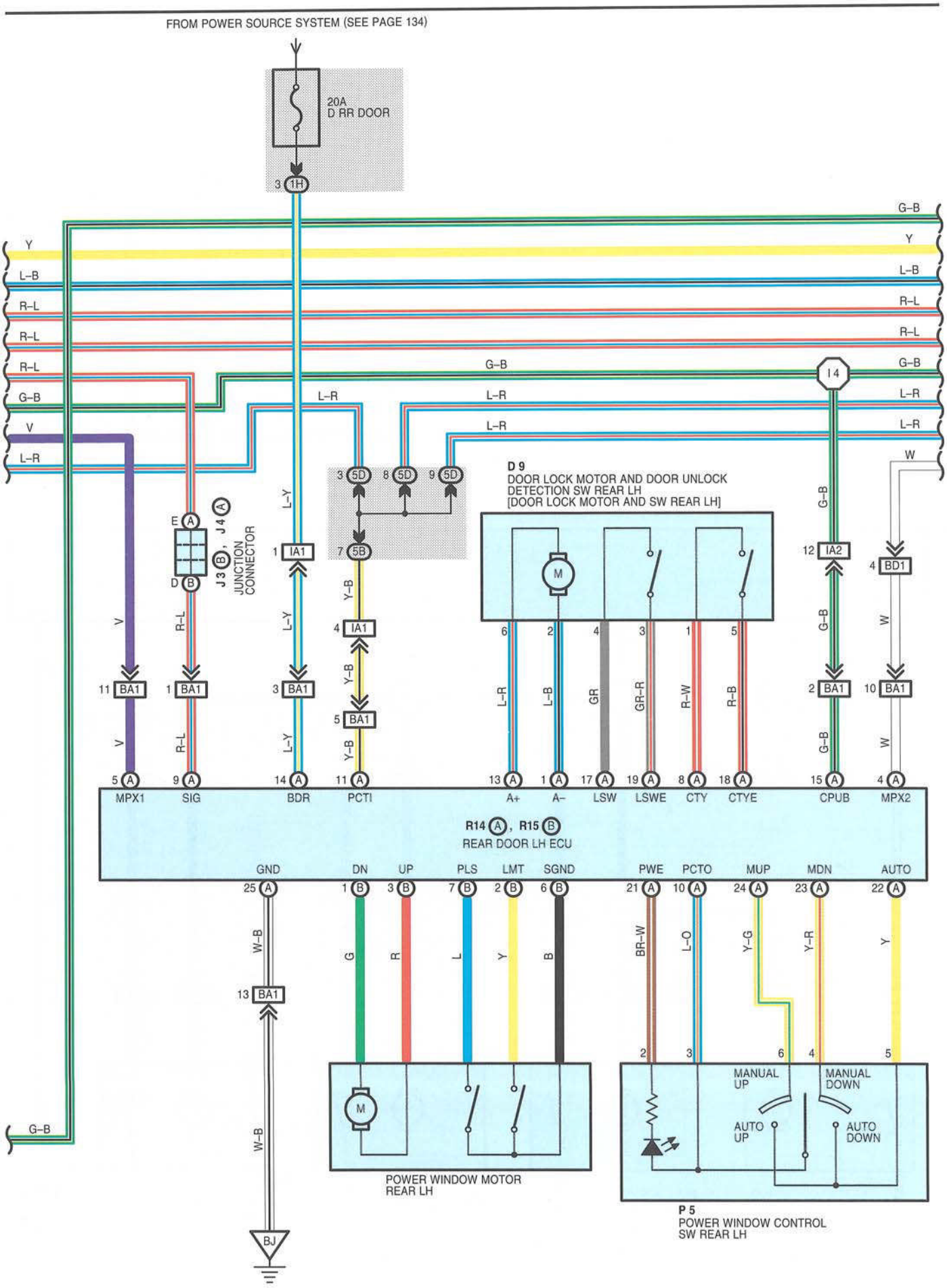
MULTIPLEX COMMUNICATION SYSTEM (LHD)



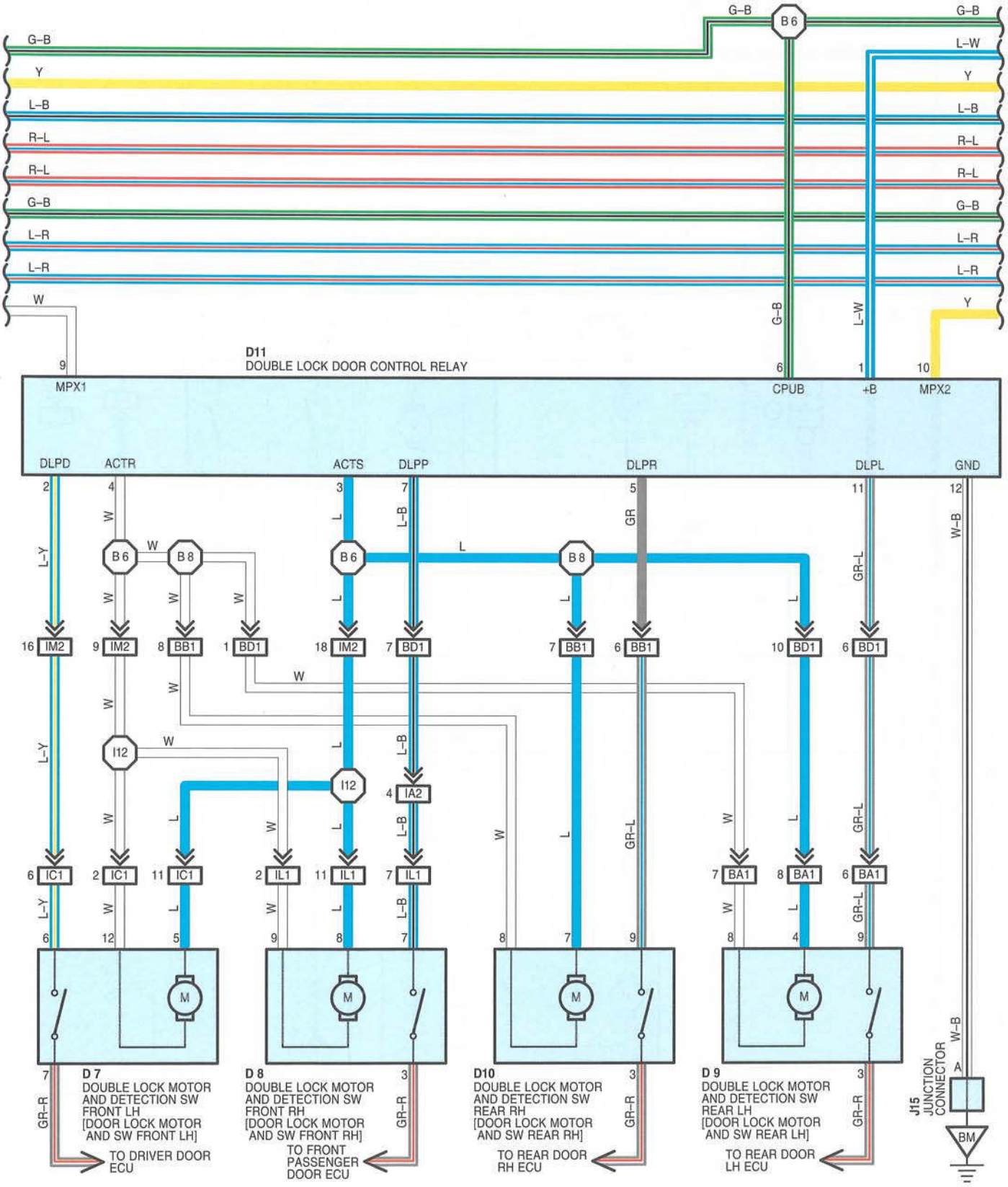

B5 A, B6 B, B7 C, B8 D BODY ECU
KSW
MPX1
IG
BECU
BSUB
I5
I7
I8
ID1
6 3F
10 3A
IMLD
MPX2
MPX1
M 6
MOON ROOF CONTROL ECU
E 9
ENGINE AND ECT ECU
T4 A, T5 B
THEFT DETERRENT ECU
DSSW
TRIG
CTLS
E
KSW
IND
+B1
MPX2
IC1
I4
EC1
IM2
D12
DRIVER DOOR ECU
GND
A+
A−
KL
KUL
LSW
LSWE
CTY
CTYE
E 3
ENGINE HOOD COURTESY SW
T15
THEFT DETERRENT SIREN
U 1
UNLOCK WARNING SW
J7
JUNCTION CONNECTOR
D 7
DOOR LOCK MOTOR, DOOR COURTESY SW, DOOR UNLOCK DETECTION SW AND DOOR KEY LOCK AND UNLOCK SW FRONT LH [DOOR LOCK MOTOR AND SW FRONT LH]
LOCK
UNLOCK
J 1
JUNCTION CONNECTOR
J15
JUNCTION CONNECTOR
J 5
JUNCTION CONNECTOR
EA
BM
IF
IE

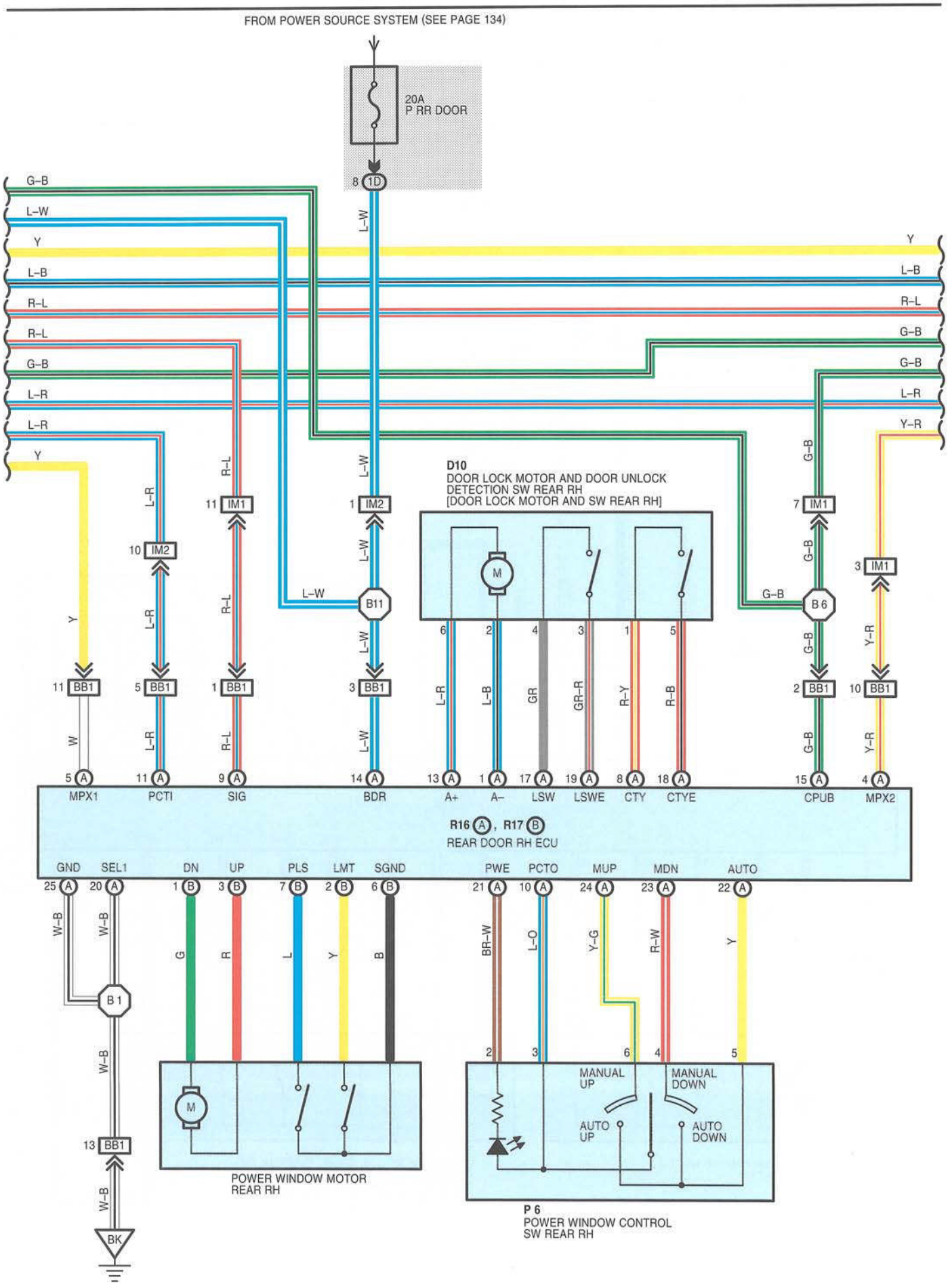
MULTIPLEX COMMUNICATION SYSTEM (LHD)



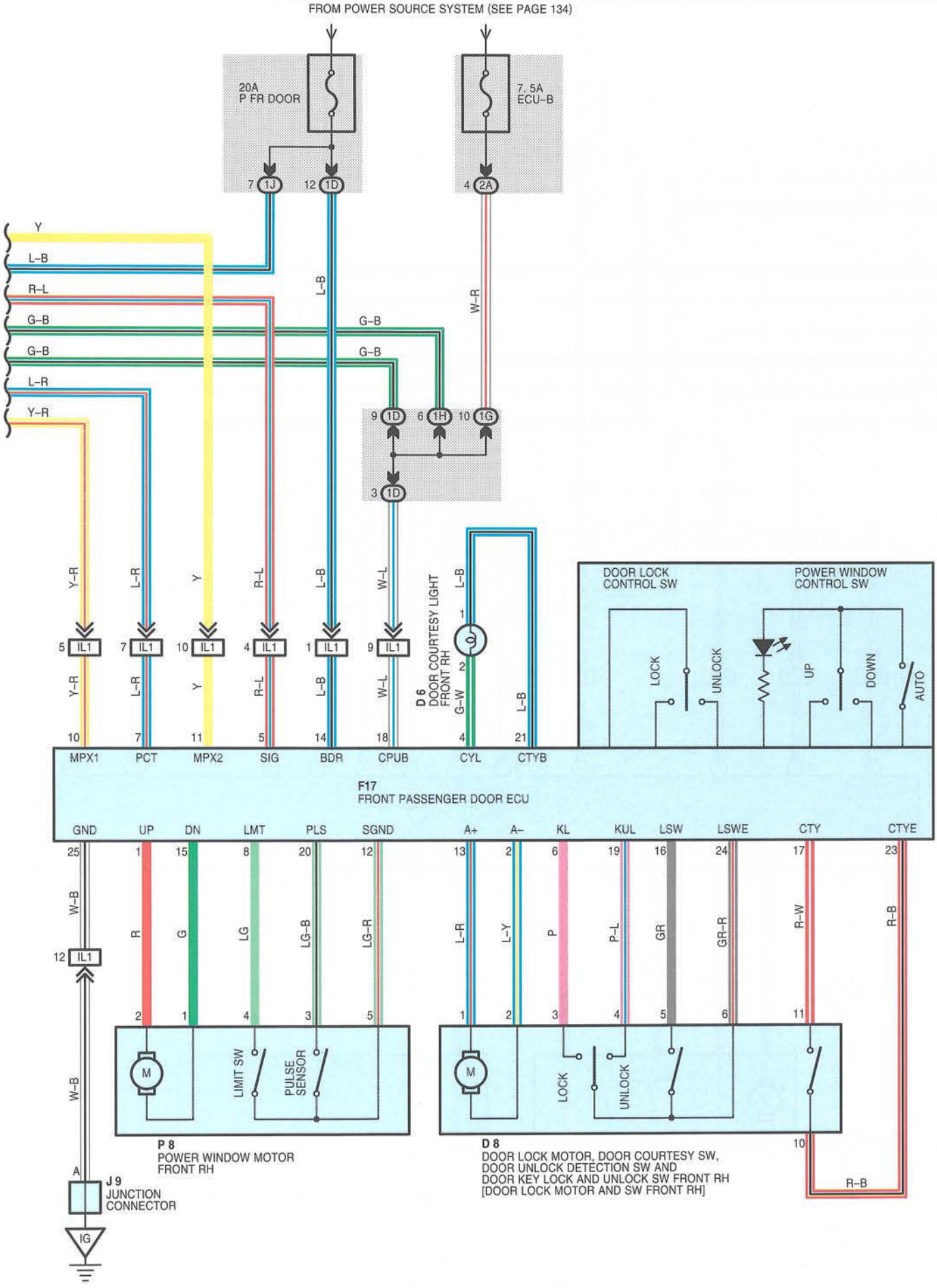

FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
D RR DOOR
3 1H
G-B
Y
L-B
R-L
R-L
R-L
G-B
V
L-R
G-B
L-R
L-R
L-R
I4
W
D 9
DOOR LOCK MOTOR AND DOOR UNLOCK
DETECTION SW REAR LH
[DOOR LOCK MOTOR AND SW REAR LH]
3 5D
8 5D
9 5D
7 5B
E A
D B
J3 B, J4 A
JUNCTION
CONNECTOR
1 IA1
4 IA1
5 BA1
L-Y
Y-B
Y-B
Y-B
11 BA1
1 BA1
3 BA1
V
R-L
L-Y
12 IA2
2 BA1
4 BD1
10 BA1
G-B
W
6
2
4
3
1
5
L-R
L-B
GR
GR-R
R-W
R-B
5 A
9 A
14 A
11 A
13 A
1 A
17 A
19 A
8 A
18 A
15 A
4 A
MPX1
SIG
BDR
PCTI
A+
A-
LSW
LSWE
CTY
CTYE
CPUB
MPX2
R14 A, R15 B
REAR DOOR LH ECU
GND
DN
UP
PLS
LMT
SGND
PWE
PCTO
MUP
MDN
AUTO
25 A
1 B
3 B
7 B
2 B
6 B
21 A
10 A
24 A
23 A
22 A
W-B
G
R
L
Y
B
BR-W
L-O
Y-G
Y-R
Y
13 BA1
W-B
2
3
6
4
5
MANUAL
UP
MANUAL
DOWN
AUTO
UP
AUTO
DOWN
BJ
G-B
POWER WINDOW MOTOR
REAR LH
P 5
POWER WINDOW CONTROL
SW REAR LH

MULTIPLEX COMMUNICATION SYSTEM (LHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
P RR DOOR
8 1D
G-B
L-W
Y
L-B
R-L
R-L
G-B
L-R
L-R
Y
D10
DOOR LOCK MOTOR AND DOOR UNLOCK
DETECTION SW REAR RH
[DOOR LOCK MOTOR AND SW REAR RH]
11 IM1
1 IM2
10 IM2
7 IM1
3 IM1
B11
B6
11 BB1
5 BB1
1 BB1
3 BB1
2 BB1
10 BB1
5 A MPX1
11 A PCTI
9 A SIG
14 A BDR
13 A A+
1 A A-
17 A LSW
19 A LSWE
8 A CTY
18 A CTYE
15 A CPUB
4 A MPX2
R16 A, R17 B
REAR DOOR RH ECU
GND
SEL1
DN
UP
PLS
LMT
SGND
PWE
PCTO
MUP
MDN
AUTO
25 A
20 A
1 B
3 B
7 B
2 B
6 B
21 A
10 A
24 A
23 A
22 A
B1
13 BB1
BK
POWER WINDOW MOTOR
REAR RH
MANUAL
UP
MANUAL
DOWN
AUTO
UP
AUTO
DOWN
P6
POWER WINDOW CONTROL
SW REAR RH

MULTIPLEX COMMUNICATION SYSTEM (LHD)



SYSTEM OUTLINE

MULTIPLEX COMMUNICATION SYSTEM

The system is comprised of the communication modes of the body ECU, driver door ECU, front passenger door ECU, rear door LH ECU, rear door RH ECU, engine and ECT ECU, combination meter ECU, instrument control panel, double lock door control relay, theft deterrent ECU and moon roof control ECU. The body electrical systems are controlled by a serial communication in which each ECU is linked to another via a single communication line. This system is also equipped with a self-diagnosis function.

The table below shows the systems under the control of the multiplex communication system and related ECUs (Communication nodes).

SYSTEM \ ECU	Body ECU	Driver Door ECU	Front Passenger Door ECU	Rear Door LH ECU	Rear Door RH ECU	Engine and ECT ECU	Combination Meter ECU	Instrument Control Panel	Double Lock Door Control Relay	Theft Deterrent ECU	Moon Roof Control ECU
Power Window	2	1	2	2	2	–	–	–	–	–	–
Theft Deterrent and Door Lock Control	1	2	2	2	2	–	–	–	–	1	–
Wireless Door Lock Control	1	2	2	2	2	–	–	–	–	–	–
Light Reminder Buzzer	1	2	2	2	2	–	–	–	–	–	–
Illuminated Entry	1	2	2	2	2	–	–	–	–	–	–
Light Auto Turn Off	1	2	–	–	–	–	–	–	–	–	–
Rear Wiper	1	–	–	–	–	–	–	–	–	–	–
Headlight	1	–	–	–	–	–	–	–	–	–	–
Seat Belt Warning	1	–	–	–	–	–	–	–	–	–	–
Double Locking System	2	2	2	2	2	–	–	–	1	–	–
Automatic Light Control	1	–	–	–	–	–	–	–	–	–	–

1 : Master control 2 : Sub control

1. COMMUNICATION OUTLINE

Communication is implemented among the body, driver door, front passenger door, rear door LH, rear door RH, instrument control panel, combination meter, moon roof control, double lock door control relay, theft deterrent, engine and ECT ECU.

Upon receiving signals from applicable switches such as the door lock control switch or door courtesy light switch, each ECU determines the conditions of the switches as well as of the doors, and after converting this information into digital signals, outputs them to other ECUs via serial data communication. The ECU that receives these digital signals determines the conditions of the switches and doors so that it can implement various controls such as to activate a door lock motor.

However, if there are no changes in the input signals because no doors were opened and no switches were used within 30 seconds, the body ECU interrupts the communication to save electricity. Following this interruption, any changes in the input signals will cause the communication to resume.

For details please refer to the new car features and repair manuals.

MULTIPLEX COMMUNICATION SYSTEM (LHD)

SERVICE HINTS

B5 (A), B8 (D) BODY ECU

(A) 8, (D) 5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(D)18-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(A) 9-GROUND : Always continuity
(D) 4-GROUND : Always approx. **12** volts
(A) 2-GROUND : Always approx. **12** volts
(D) 2-GROUND : Always continuity

D12 DRIVER DOOR ECU

5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
18-GROUND : Always approx. **12** volts
25-GROUND : Always continuity

F17 FRONT PASSENGER DOOR ECU

5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
18-GROUND : Always approx. **12** volts
25-GROUND : Always continuity

R14 (A) REAR DOOR LH ECU

(A) 9-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(A)14-GROUND : Always approx. **12** volts
(A)15-GROUND : Always approx. **12** volts
(A)25-GROUND : Always continuity

R16 (A) REAR DOOR RH ECU

(A) 9-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(A)14-GROUND : Always approx. **12** volts
(A)15-GROUND : Always approx. **12** volts
(A) 20, (A) 25-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A33	92 (LHD)	F4	90 (LHD)	P4	95 (LHD)
B5 A	92 (LHD)	F11	90 (LHD)	P5	95 (LHD)
B6 B	92 (LHD)	F16	94 (LHD)	P6	95 (LHD)
B7 C	92 (LHD)	F17	94 (LHD)	P7	95 (LHD)
B8 D	92 (LHD)	H3	90 (LHD)	P8	95 (LHD)
B9	94 (LHD)	H4	90 (LHD)	R2	93 (LHD)
B10	94 (LHD)	H5	90 (LHD)	R11	95 (LHD)
B11	94 (LHD)	H6	90 (LHD)	R13	95 (LHD)
B12	96 (LHD)	H9	93 (LHD)	R14 A	95 (LHD)
C12	92 (LHD)	I14	93 (LHD)	R15 B	95 (LHD)
C14	92 (LHD)	I17	93 (LHD)	R16 A	95 (LHD)
C15	92 (LHD)	J1	91 (LHD)	R17 B	95 (LHD)
D3	92 (LHD)	J2	91 (LHD)	R20	95 (LHD)
D4	94 (LHD)	J3 B	93 (LHD)	R24	95 (LHD)
D5	94 (LHD)	J4 A	93 (LHD)	S10	93 (LHD)
D6	94 (LHD)	J5	93 (LHD)	T4 A	93 (LHD)
D7	94 (LHD)	J7	93 (LHD)	T5 B	93 (LHD)
D8	94 (LHD)	J9	93 (LHD)	T15	95 (LHD)
D9	94 (LHD)	J13	94 (LHD)	U1	93 (LHD)
D10	94 (LHD)	J14	94 (LHD)	V8	95 (LHD)
D11	94 (LHD)	J15	94 (LHD)	V9	95 (LHD)
D12	94 (LHD)	J17	96 (LHD)	W2	91 (LHD)
E3	90 (LHD)	M6	94 (LHD)	W5	95 (LHD)
E9	92 (LHD)	P2	93 (LHD)		
F3	90 (LHD)	P3	93 (LHD)		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	87	R/B No.1 (Lower Finish Panel)
2	88	R/B No.2 (Engine Compartment Left)
3	88	R/B No.3 (Engine Compartment Front Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1D		
1E		
1F		
1G		
1H		
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2F	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2I		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3E		
3F		
3G		
3H		
5A	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5B		
5C		
5D		
5E		
5F		

MULTIPLEX COMMUNICATION SYSTEM (LHD)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	106 (LHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IA1	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB1	108 (LHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
ID1	108 (LHD)	Roof Wire and Cowl Wire (Left Side of Instrument Panel)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	112 (LHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC2	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BC3		
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)
BE1	114 (LHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)

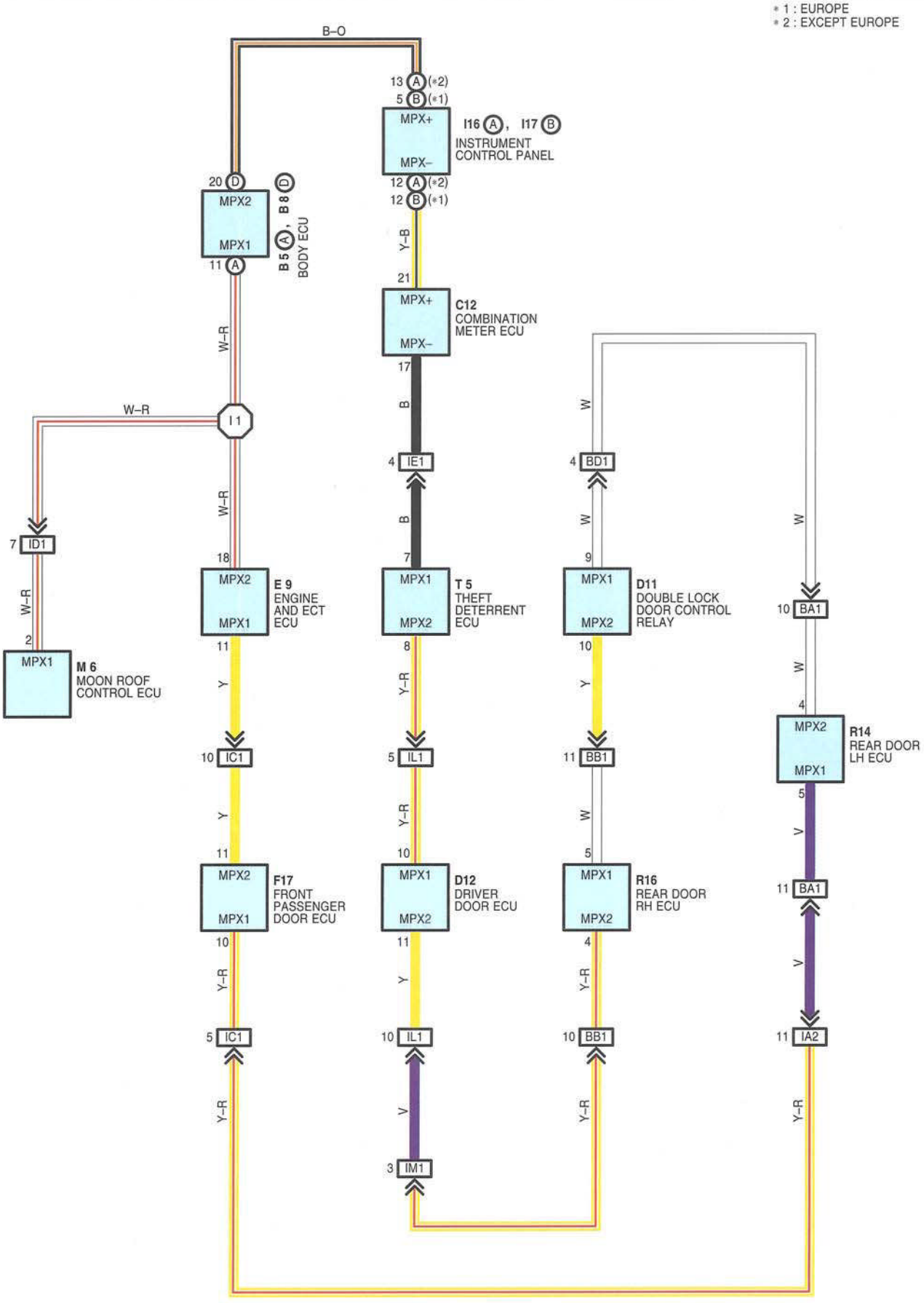
: GROUND POINTS

Code	See Page	Ground Points Location
EA	106 (LHD)	Engine Compartment Right
ED	106 (LHD)	Right Radiator Side Support
IE	108 (LHD)	Cowl Side Panel LH
IF	108 (LHD)	Dash Panel Center
IG	108 (LHD)	Cowl Side Panel RH
IH	108 (LHD)	Instrument Panel Brace RH
BJ	112 (LHD)	Under the Left Center Pillar
BK	112 (LHD)	Under the Right Center Pillar
BL	112 (LHD)	Left Rear Quarter Panel
BM	112 (LHD)	Under the Rear RH Seat
BN	112 (LHD)	Back Panel Center

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E5	106 (LHD)	Engine Room Main Wire	B1	112 (LHD)	Rear Door RH Wire
E9			B3	112 (LHD)	Roof Wire
E10			B4		
I4	110 (LHD)	Cowl Wire	B6	112 (LHD)	Floor Wire
I5			B7	112 (LHD)	Floor No.2 Wire
I7			B8	112 (LHD)	Floor Wire
I8			B10	112 (LHD)	Back Door No.1 Wire
I12			B11	112 (LHD)	Floor Wire

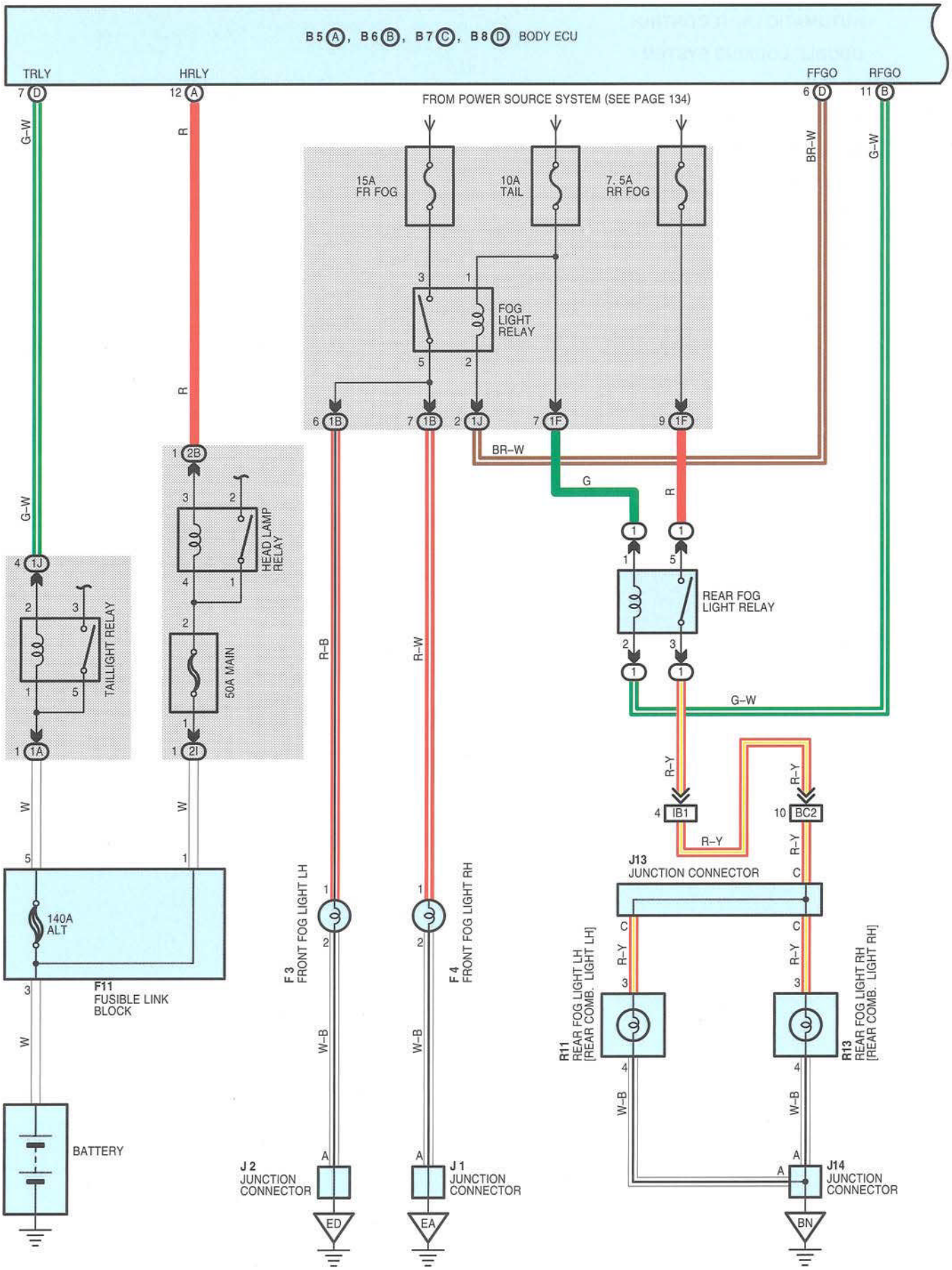
MULTIPLEX COMMUNICATION SYSTEM (COMMUNICATION BUS) [RHD]

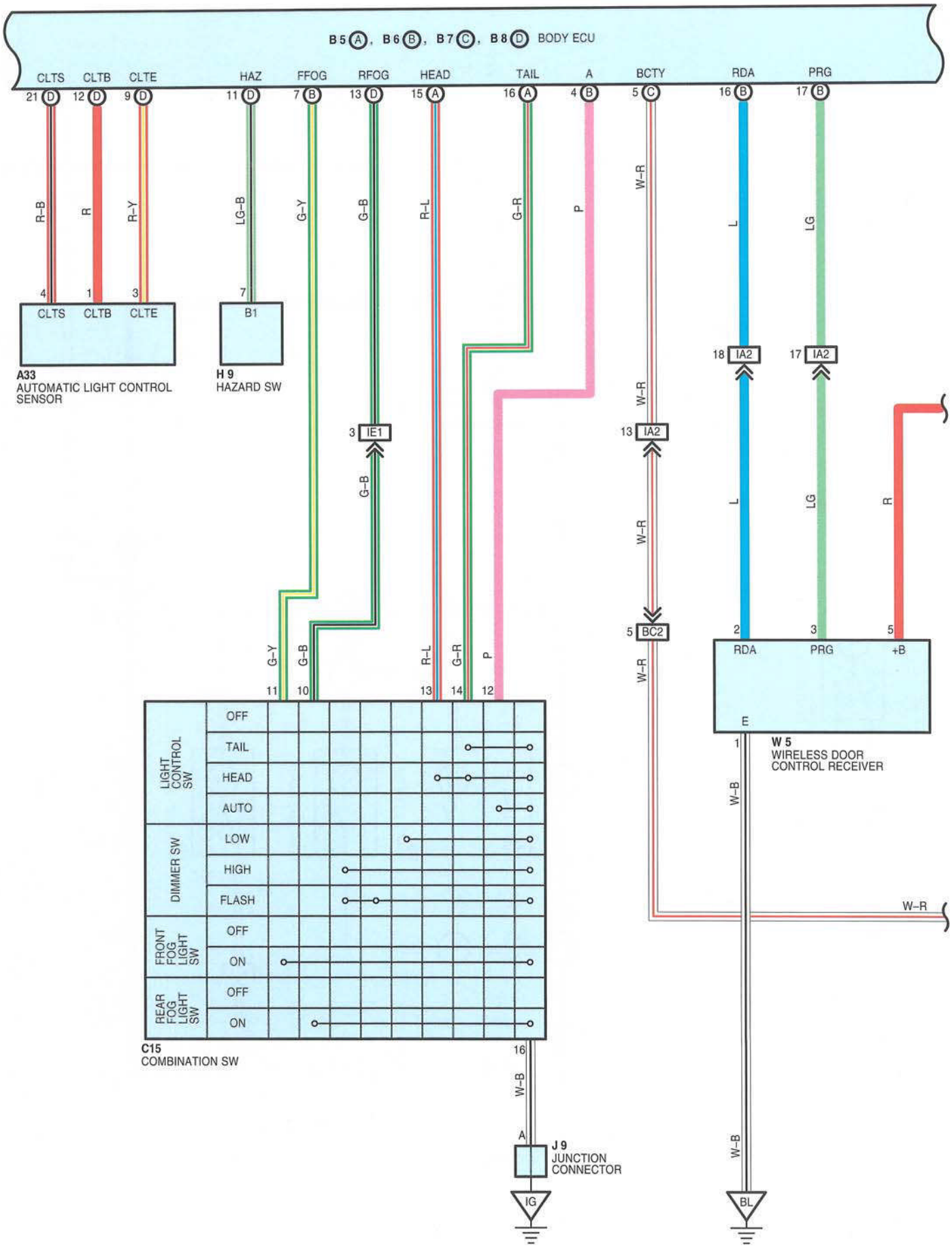


MULTIPLEX COMMUNICATION SYSTEM INCLUDES FOLLOWING SYSTEMS

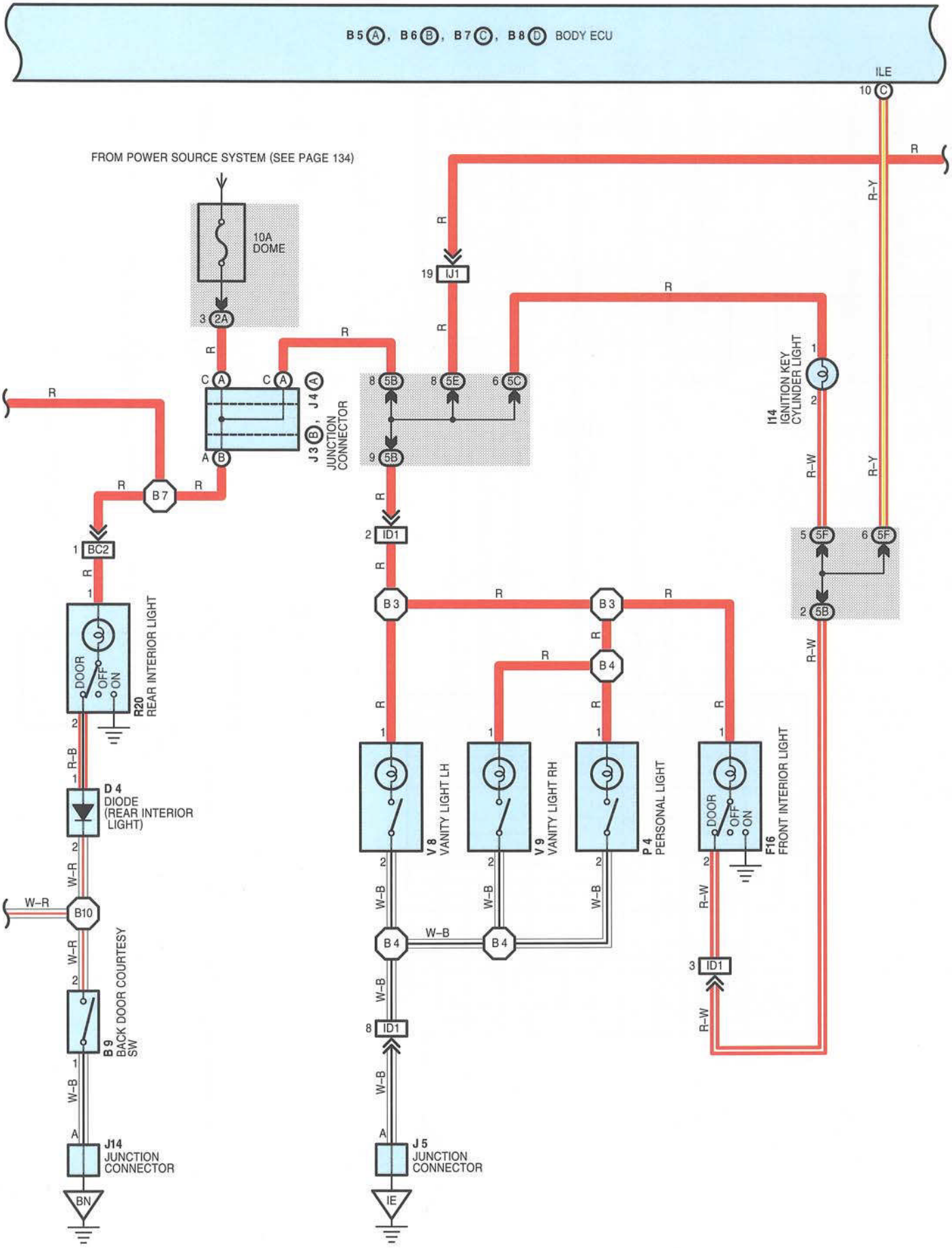
* AUTOMATIC LIGHT CONTROL
* DOUBLE LOCKING SYSTEM
* FRONT FOG LIGHT
* INTERIOR LIGHT
* SEAT BELT WARNING
* LIGHT AUTO TURN OFF
* LIGHT REMINDER BUZZER
* POWER WINDOW
* REAR FOG LIGHT
* REAR WIPER AND WASHER
* THEFT DETERRENT AND DOOR LOCK CONTROL
* WIRELESS DOOR LOCK CONTROL

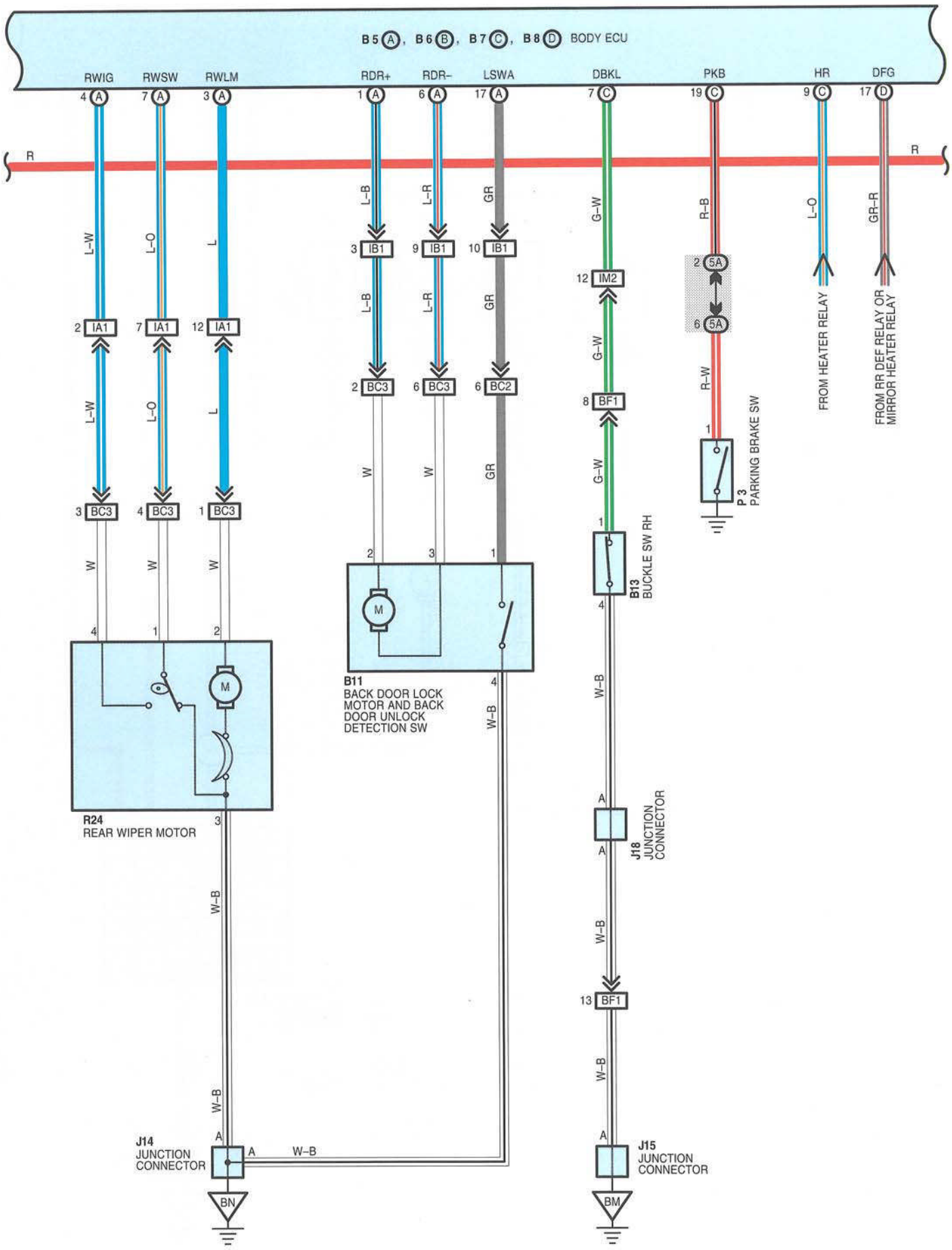
MULTIPLEX COMMUNICATION SYSTEM (RHD)



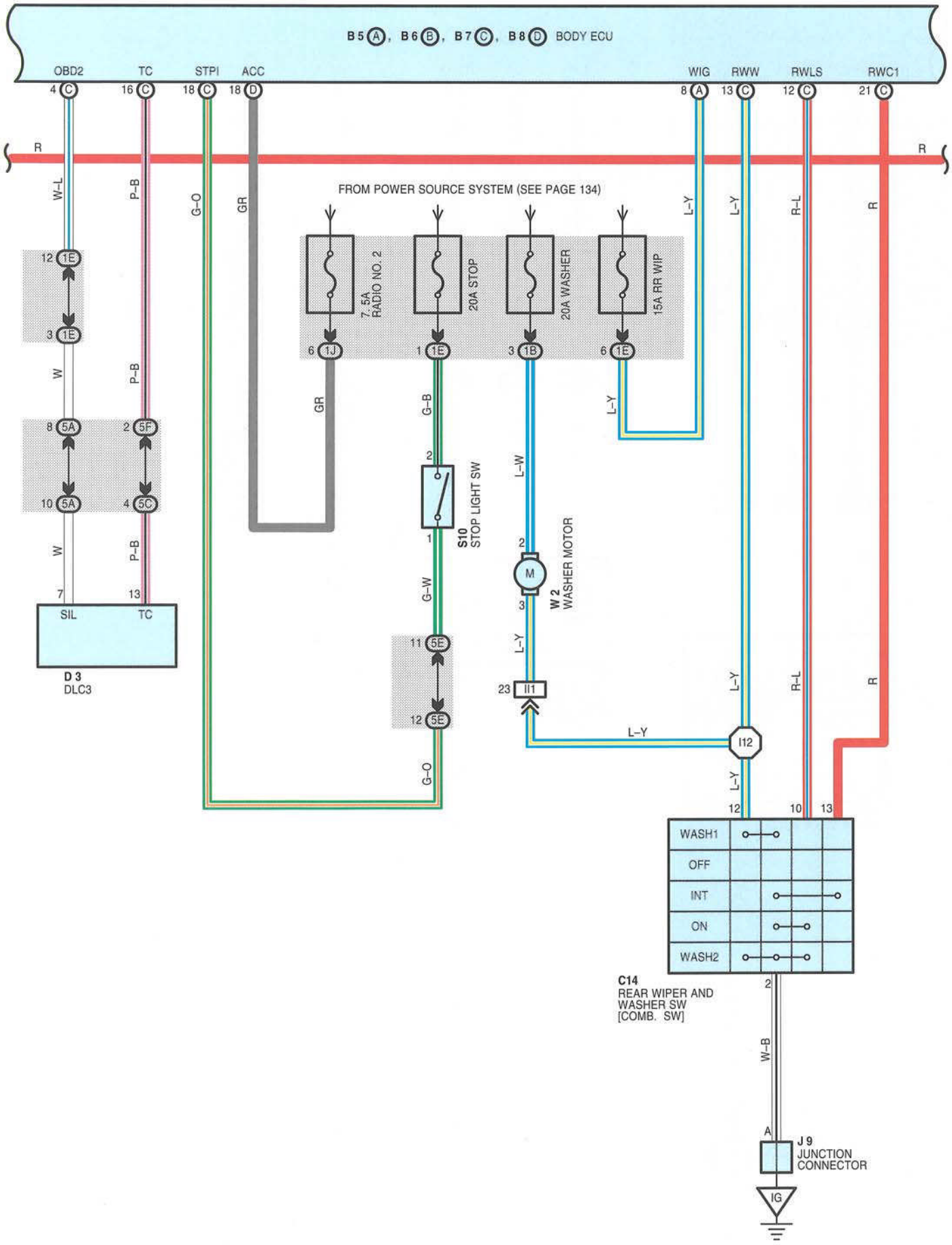

B5 A, B6 B, B7 C, B8 D BODY ECU
CLTS
CLTB
CLTE
HAZ
FFOG
RFOG
HEAD
TAIL
A
BCTY
RDA
PRG
21 D
12 D
9 D
11 D
7 B
13 D
15 A
16 A
4 B
5 C
16 B
17 B
R-B
R
R-Y
LG-B
G-Y
G-B
R-L
G-R
P
W-R
L
LG
4
1
3
7
CLTS
CLTB
CLTE
B1
A33
AUTOMATIC LIGHT CONTROL SENSOR
H 9
HAZARD SW
3 IE1
18 IA2
17 IA2
13 IA2
5 BC2
2
3
5
RDA
PRG
+B
E
W 5
WIRELESS DOOR CONTROL RECEIVER
1
W-B
R
11
10
13
14
12
G-Y
G-B
R-L
G-R
P
LIGHT CONTROL SW
OFF
TAIL
HEAD
AUTO
DIMMER SW
LOW
HIGH
FLASH
FRONT FOG LIGHT SW
OFF
ON
REAR FOG LIGHT SW
OFF
ON
C15
COMBINATION SW
16
W-B
A
J 9
JUNCTION CONNECTOR
IG
BL
W-R

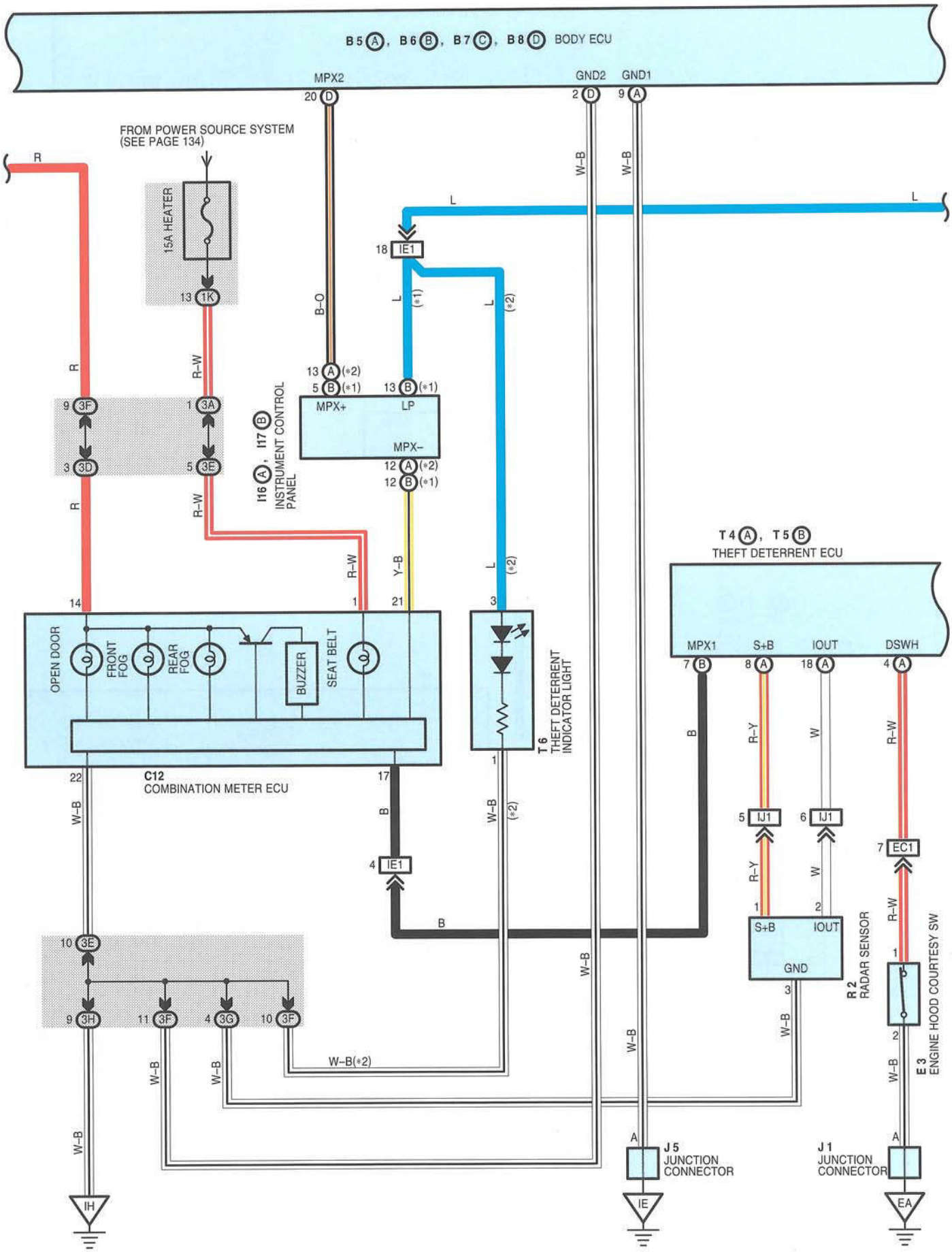
MULTIPLEX COMMUNICATION SYSTEM (RHD)



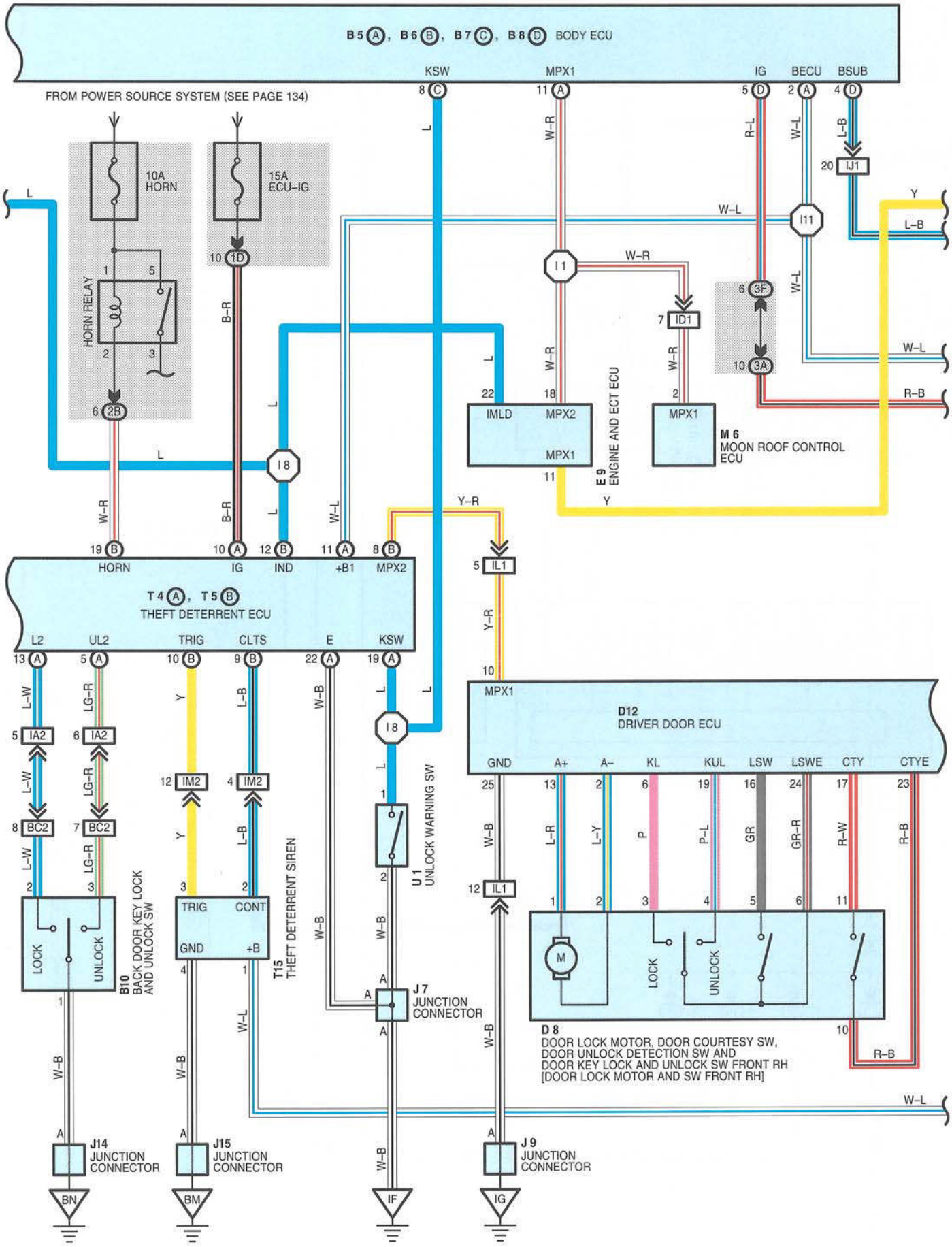

B5 A, B6 B, B7 C, B8 D BODY ECU
RWIG
RWSW
RWLM
RDR+
RDR-
LSWA
DBKL
PKB
HR
DFG
R
L-W
L-O
L
L-B
L-R
GR
G-W
R-B
R-W
L-O
GR-R
IA1
IB1
BC3
BC2
IM2
BF1
5A
W
W-B
M
R24
REAR WIPER MOTOR
B11
BACK DOOR LOCK MOTOR AND BACK DOOR UNLOCK DETECTION SW
B13
BUCKLE SW RH
P3
PARKING BRAKE SW
FROM HEATER RELAY
FROM RR DEF RELAY OR MIRROR HEATER RELAY
J14
JUNCTION CONNECTOR
J18
JUNCTION CONNECTOR
J15
JUNCTION CONNECTOR
BN
BM

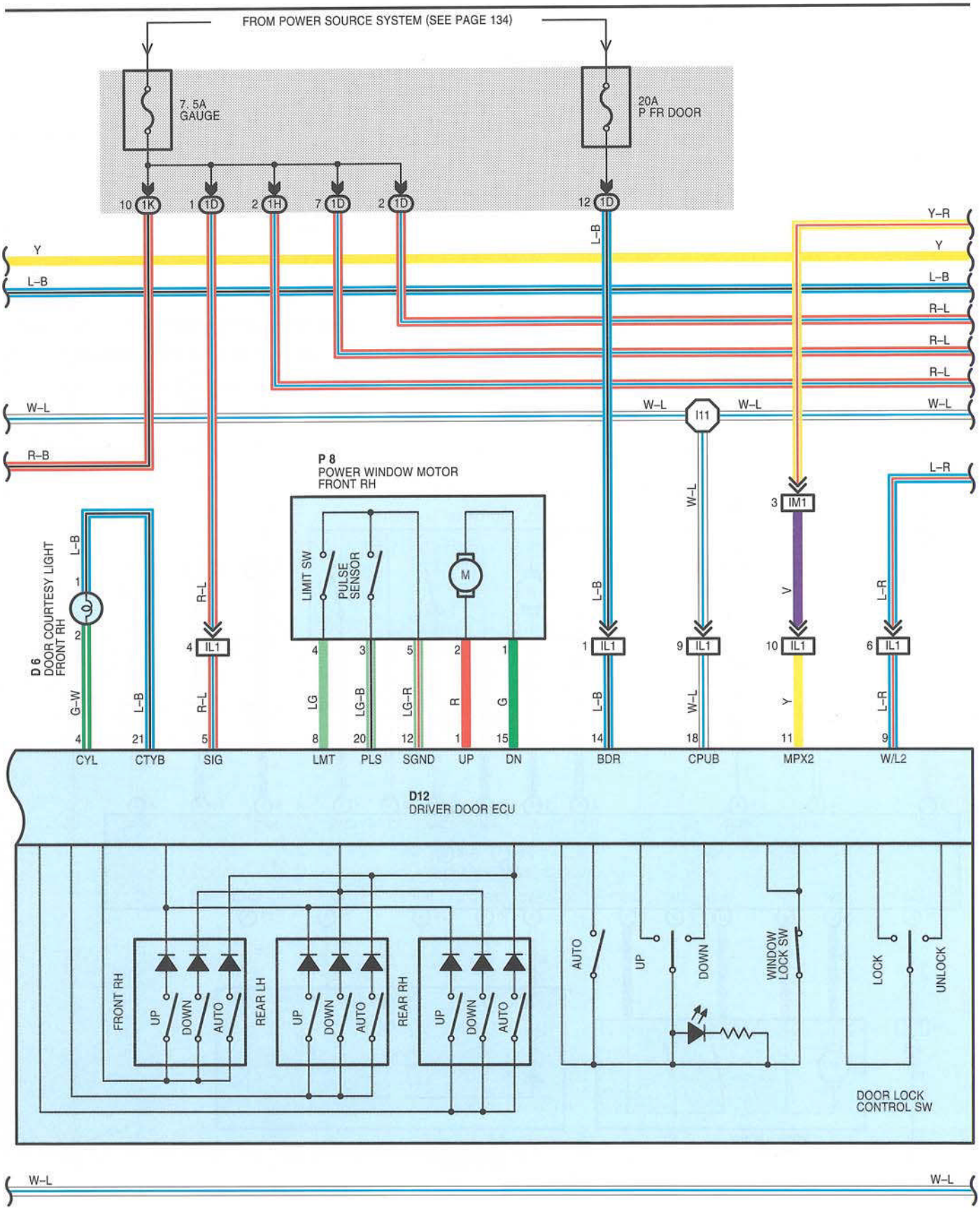
MULTIPLEX COMMUNICATION SYSTEM (RHD)




B5 A, B6 B, B7 C, B8 D BODY ECU
MPX2
GND2
GND1
FROM POWER SOURCE SYSTEM (SEE PAGE 134)
15A HEATER
I16 A, I17 B INSTRUMENT CONTROL PANEL
MPX+
LP
MPX-
OPEN DOOR
FRONT FOG
REAR FOG
BUZZER
SEAT BELT
C12 COMBINATION METER ECU
T6 THEFT DETERRENT INDICATOR LIGHT
T4 A, T5 B THEFT DETERRENT ECU
MPX1
S+B
IOUT
DSWH
GND
R2 RADAR SENSOR
E3 ENGINE HOOD COURTESY SW
J5 JUNCTION CONNECTOR
J1 JUNCTION CONNECTOR
IH
IE
EA

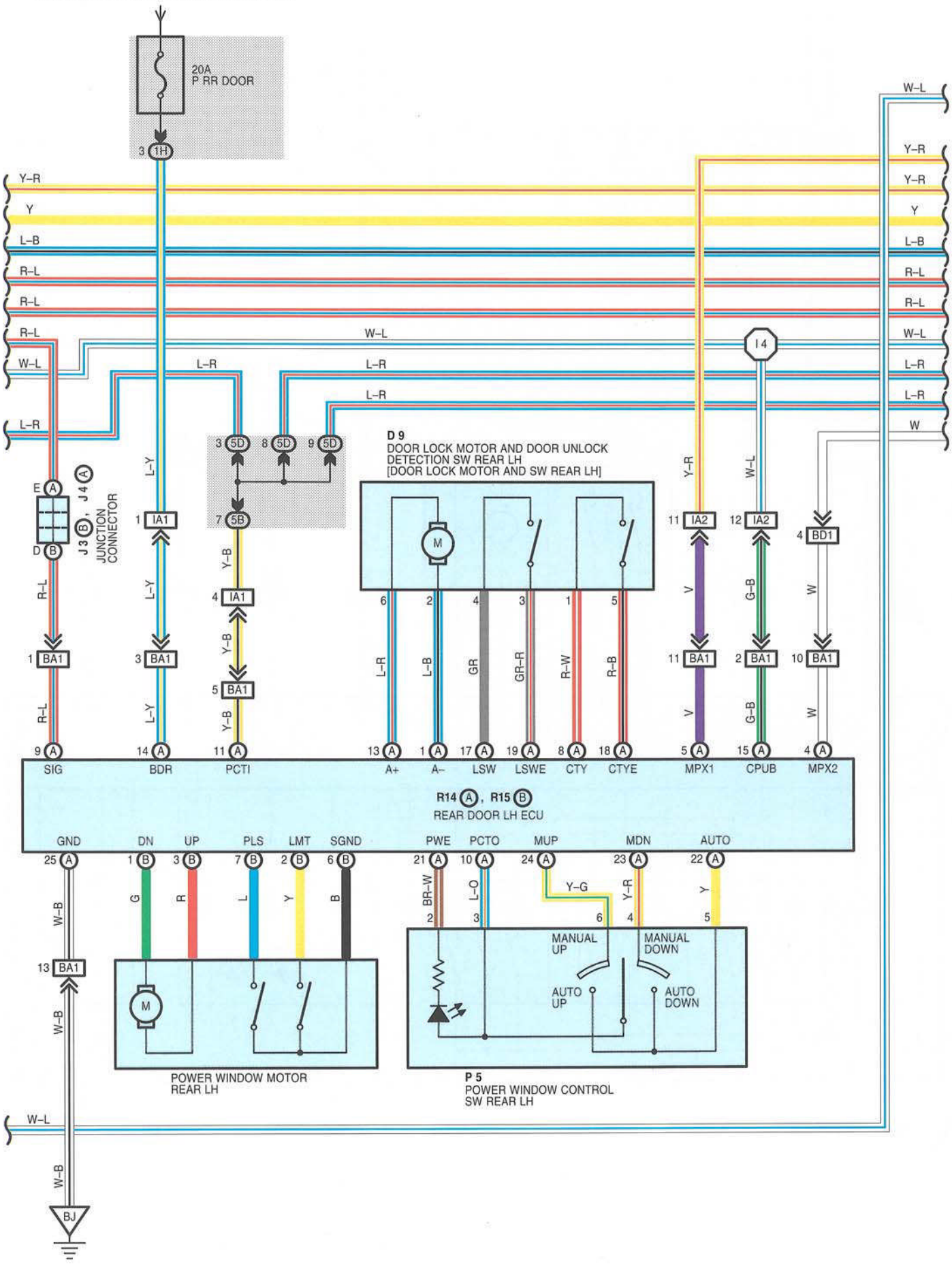
MULTIPLEX COMMUNICATION SYSTEM (RHD)

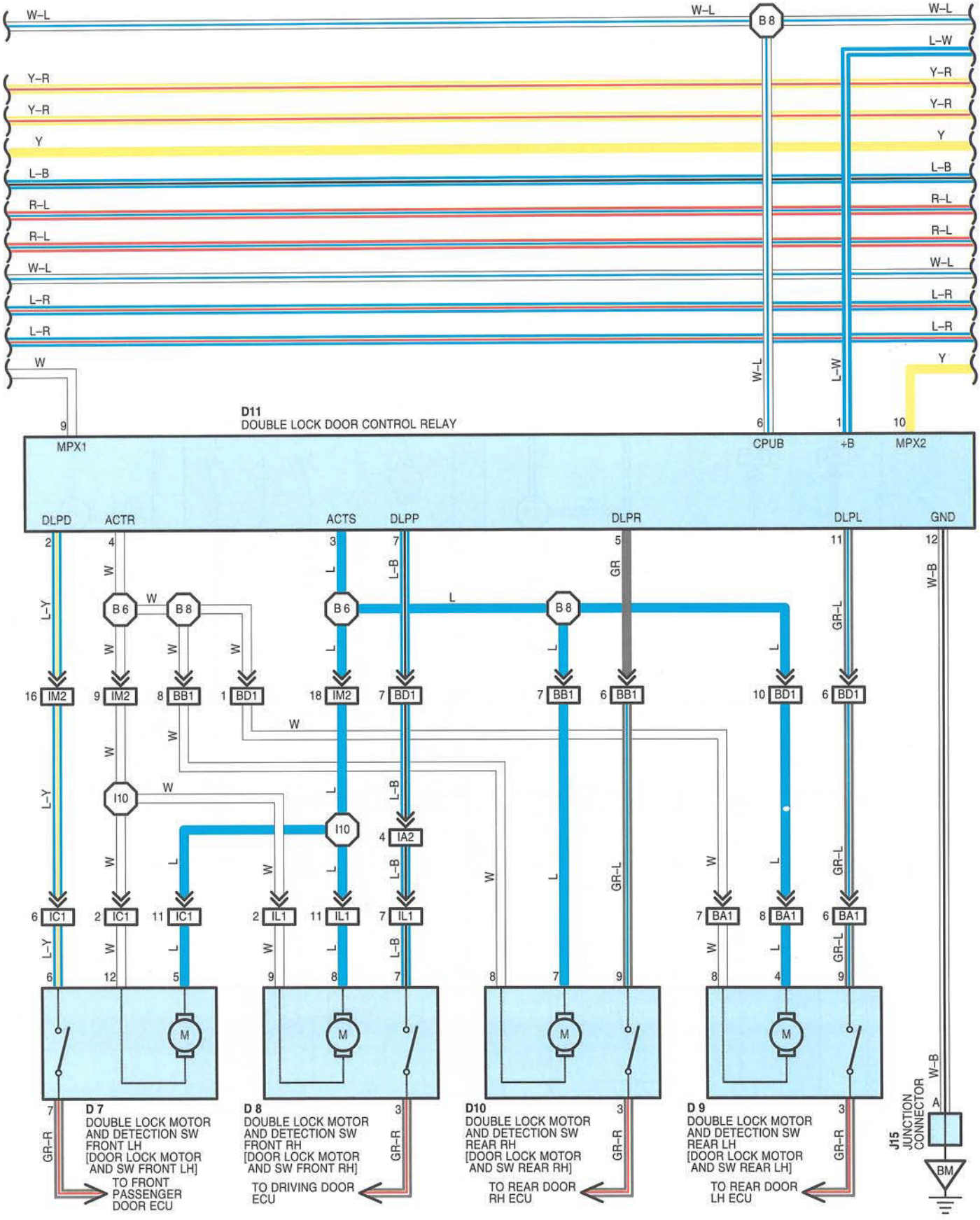



FROM POWER SOURCE SYSTEM (SEE PAGE 134)
7. 5A
GAUGE
20A
P FR DOOR
10 1K
1 1D
2 1H
7 1D
2 1D
12 1D
Y
L-B
W-L
R-B
L-B
R-L
R-L
R-L
Y-R
Y
L-B
R-L
R-L
R-L
W-L
W-L
I11
W-L
W-L
L-B
W-L
V
L-R
L-R
D6
DOOR COURTESY LIGHT
FRONT RH
P 8
POWER WINDOW MOTOR
FRONT RH
LIMIT SW
PULSE
SENSOR
M
IL1
IM1
CYL
CTYB
SIG
LMT
PLS
SGND
UP
DN
BDR
CPUB
MPX2
W/L2
D12
DRIVER DOOR ECU
FRONT RH
REAR LH
REAR RH
UP
DOWN
AUTO
AUTO
UP
DOWN
WINDOW
LOCK SW
LOCK
UNLOCK
DOOR LOCK
CONTROL SW
W-L
W-L

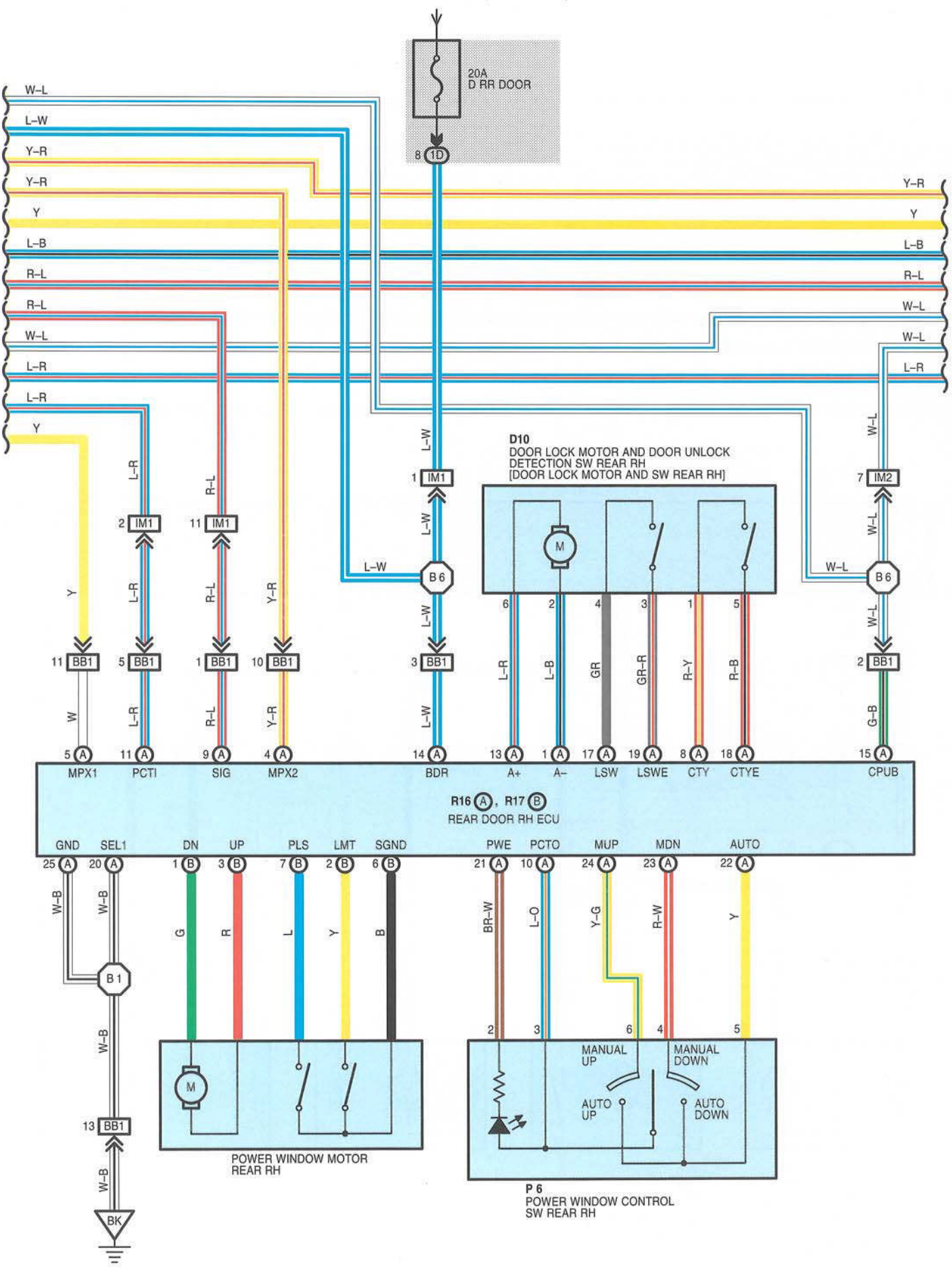
MULTIPLEX COMMUNICATION SYSTEM (RHD)

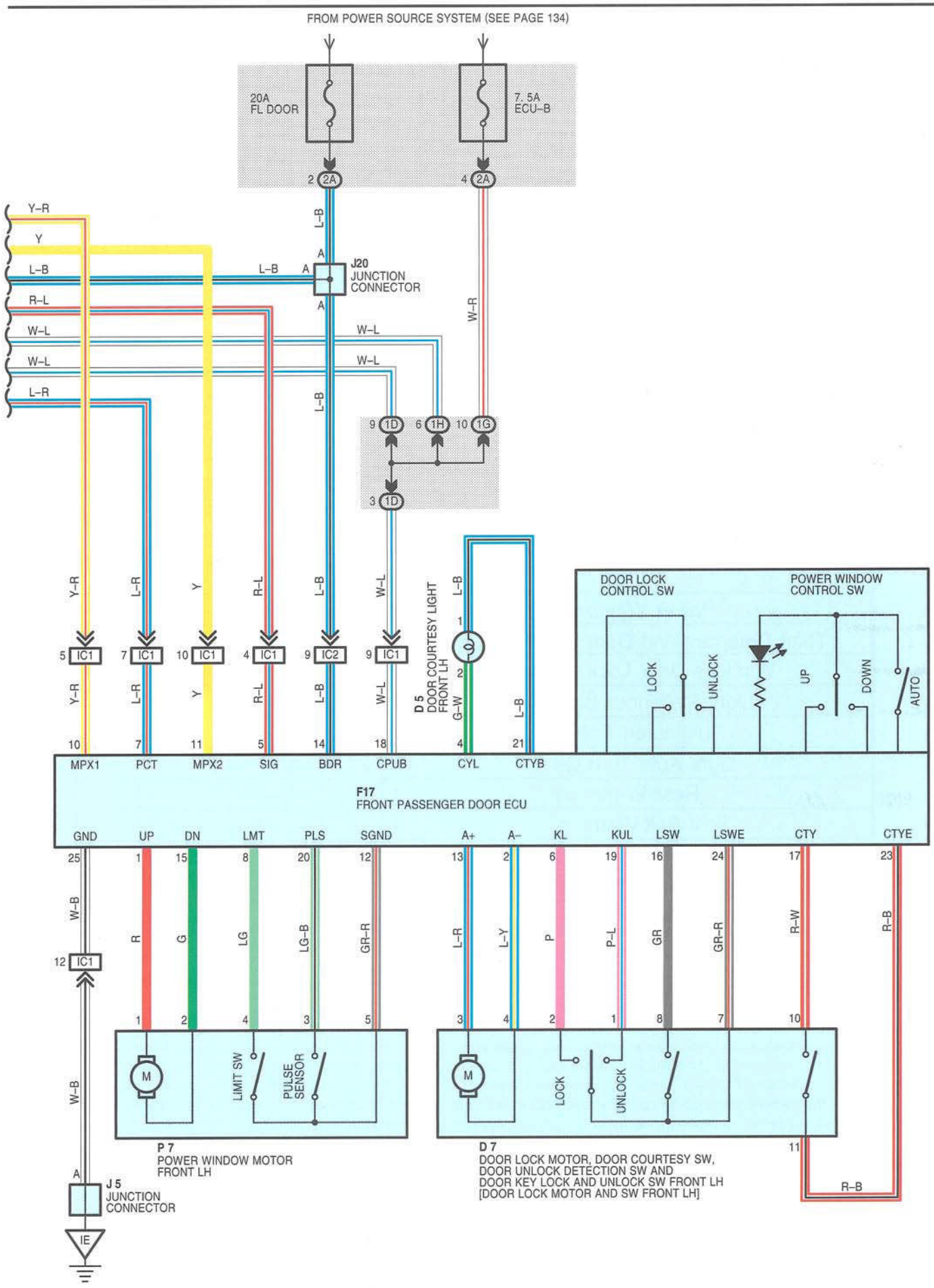
FROM POWER SOURCE SYSTEM (SEE PAGE 134)




W-L
W-L
B 8
W-L
L-W
Y-R
Y-R
Y-R
Y
Y
L-B
L-B
R-L
R-L
R-L
W-L
W-L
L-R
L-R
L-R
W
W-L
L-W
Y
9
MPX1
D11
DOUBLE LOCK DOOR CONTROL RELAY
6
CPUB
1
+B
10
MPX2
DLPD
ACTR
ACTS
DLPP
DLPR
DLPL
GND
2
4
3
7
5
11
12
L-Y
W
L
L-B
GR
GR-L
W-B
B 6
B 8
B 6
B 8
16 IM2
9 IM2
8 BB1
1 BD1
18 IM2
7 BD1
7 BB1
6 BB1
10 BD1
6 BD1
I10
I10
4 IA2
6 IC1
2 IC1
11 IC1
2 IL1
11 IL1
7 IL1
7 BA1
8 BA1
6 BA1
M
D 7
DOUBLE LOCK MOTOR AND DETECTION SW FRONT LH [DOOR LOCK MOTOR AND SW FRONT LH]
TO FRONT PASSENGER DOOR ECU
D 8
DOUBLE LOCK MOTOR AND DETECTION SW FRONT RH [DOOR LOCK MOTOR AND SW FRONT RH]
TO DRIVING DOOR ECU
D10
DOUBLE LOCK MOTOR AND DETECTION SW REAR RH [DOOR LOCK MOTOR AND SW REAR RH]
TO REAR DOOR RH ECU
D 9
DOUBLE LOCK MOTOR AND DETECTION SW REAR LH [DOOR LOCK MOTOR AND SW REAR LH]
TO REAR DOOR LH ECU
J15
JUNCTION CONNECTOR
A
BM

MULTIPLEX COMMUNICATION SYSTEM (RHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A FL DOOR
7.5A ECU-B
2 2A
4 2A
L-B
J20 JUNCTION CONNECTOR
W-R
Y-R
Y
L-B
R-L
W-L
W-L
L-R
W-L
W-L
L-B
9 1D
6 1H
10 1G
3 1D
D5 DOOR COURTESY LIGHT FRONT LH
G-W
L-B
DOOR LOCK CONTROL SW
POWER WINDOW CONTROL SW
LOCK
UNLOCK
UP
DOWN
AUTO
5 IC1
7 IC1
10 IC1
4 IC1
9 IC2
9 IC1
10 MPX1
7 PCT
11 MPX2
5 SIG
14 BDR
18 CPUB
4 CYL
21 CTYB
F17
FRONT PASSENGER DOOR ECU
GND
UP
DN
LMT
PLS
SGND
A+
A-
KL
KUL
LSW
LSWE
CTY
CTYE
25
1
15
8
20
12
13
2
6
19
16
24
17
23
W-B
R
G
LG
LG-B
GR-R
L-R
L-Y
P
P-L
GR
GR-R
R-W
R-B
12 IC1
1
2
4
3
5
3
4
2
1
8
7
10
11
M
LIMIT SW
PULSE SENSOR
M
LOCK
UNLOCK
P7
POWER WINDOW MOTOR FRONT LH
D7
DOOR LOCK MOTOR, DOOR COURTESY SW, DOOR UNLOCK DETECTION SW AND DOOR KEY LOCK AND UNLOCK SW FRONT LH [DOOR LOCK MOTOR AND SW FRONT LH]
R-B
W-B
A
J5 JUNCTION CONNECTOR
IE

MULTIPLEX COMMUNICATION SYSTEM (RHD)

SYSTEM OUTLINE

MULTIPLEX COMMUNICATION SYSTEM

The system is comprised of the communication modes of the body ECU, driver door ECU, front passenger door ECU, rear door LH ECU, rear door RH ECU, engine and ECT ECU, combination meter ECU, instrument control panel, double lock door control relay, theft deterrent ECU and moon roof control ECU. The body electrical systems are controlled by a serial communication in which each ECU is linked to another via a single communication line. This system is also equipped with a self-diagnosis function.

The table below shows the systems under the control of the multiplex communication system and related ECUs (Communication nodes).

SYSTEM \ ECU	Body ECU	Driver Door ECU	Front Passenger Door ECU	Rear Door LH ECU	Rear Door RH ECU	Engine and ECT ECU	Combination Meter ECU	Instrument Control Panel	Double Lock Door Control Relay	Theft Deterrent ECU	Moon Roof Control ECU
Power Window	2	1	2	2	2	–	–	–	–	–	–
Theft Deterrent and Door Lock Control	1	2	2	2	2	–	–	–	–	1	–
Wireless Door Lock Control	1	2	2	2	2	–	–	–	–	–	–
Light Reminder Buzzer	1	2	2	2	2	–	–	–	–	–	–
Illuminated Entry	1	2	2	2	2	–	–	–	–	–	–
Light Auto Turn Off	1	2	–	–	–	–	–	–	–	–	–
Rear Wiper	1	–	–	–	–	–	–	–	–	–	–
Seat Belt Warning	1	–	–	–	–	–	–	–	–	–	–
Double Locking System	2	2	2	2	2	–	–	–	1	–	–
Automatic Light Control	1	–	–	–	–	–	–	–	–	–	–

1 : Master control 2 : Sub control

1. COMMUNICATION OUTLINE

Communication is implemented among the body, driver door, front passenger door, rear door LH, rear door RH, instrument control panel, combination meter, moon roof control, double lock door control relay, theft deterrent, engine and ECT ECU.

Upon receiving signals from applicable switches such as the door lock control switch or door courtesy light switch, each ECU determines the conditions of the switches as well as of the doors, and after converting this information into digital signals, outputs them to other ECUs via serial data communication. The ECU that receives these digital signals determines the conditions of the switches and doors so that it can implement various controls such as to activate a door lock motor.

However, if there are no changes in the input signals because no doors were opened and no switches were used within 30 seconds, the body ECU interrupts the communication to save electricity. Following this interruption, any changes in the input signals will cause the communication to resume.

For details please refer to the new car features and repair manuals.

SERVICE HINTS

B5 (A), B8 (D) BODY ECU

(A) 8, (D) 5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(D)18-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(A) 9-GROUND : Always continuity
(D) 4-GROUND : Always approx. **12** volts
(A) 2-GROUND : Always approx. **12** volts
(D) 2-GROUND : Always continuity

D12 DRIVER DOOR ECU

5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
18-GROUND : Always approx. **12** volts
25-GROUND : Always continuity

F17 FRONT PASSENGER DOOR ECU

5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
18-GROUND : Always approx. **12** volts
25-GROUND : Always continuity

R14 (A) REAR DOOR LH ECU

(A) 9-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(A)14-GROUND : Always approx. **12** volts
(A)15-GROUND : Always approx. **12** volts
(A)25-GROUND : Always continuity

R16 (A) REAR DOOR RH ECU

(A) 9-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(A)14-GROUND : Always approx. **12** volts
(A)15-GROUND : Always approx. **12** volts
(A) 20, (A) 25-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A33	100 (RHD)	F3	98 (RHD)	P5	103 (RHD)
B5 A	100 (RHD)	F4	98 (RHD)	P6	103 (RHD)
B6 B	100 (RHD)	F11	98 (RHD)	P7	103 (RHD)
B7 C	100 (RHD)	F16	102 (RHD)	P8	103 (RHD)
B8 D	100 (RHD)	F17	102 (RHD)	R2	101 (RHD)
B9	102 (RHD)	H9	101 (RHD)	R11	103 (RHD)
B10	102 (RHD)	I14	101 (RHD)	R13	103 (RHD)
B11	102 (RHD)	I16 A	101 (RHD)	R14 A	103 (RHD)
B13	104 (RHD)	I17 B	101 (RHD)	R15 B	103 (RHD)
C12	100 (RHD)	J1	99 (RHD)	R16 A	103 (RHD)
C14	100 (RHD)	J2	99 (RHD)	R17 B	103 (RHD)
C15	100 (RHD)	J3 B	101 (RHD)	R20	103 (RHD)
D3	100 (RHD)	J4 A	101 (RHD)	R24	103 (RHD)
D4	102 (RHD)	J5	101 (RHD)	S10	101 (RHD)
D5	102 (RHD)	J7	101 (RHD)	T4 A	101 (RHD)
D6	102 (RHD)	J9	101 (RHD)	T5 B	101 (RHD)
D7	102 (RHD)	J13	102 (RHD)	T6	101 (RHD)
D8	102 (RHD)	J14	102 (RHD)	T15	103 (RHD)
D9	102 (RHD)	J15	102 (RHD)	U1	101 (RHD)
D10	102 (RHD)	J18	104 (RHD)	V8	103 (RHD)
D11	102 (RHD)	J20	101 (RHD)	V9	103 (RHD)
D12	102 (RHD)	M6	102 (RHD)	W2	99 (RHD)
E3	98 (RHD)	P3	101 (RHD)	W5	103 (RHD)
E9	100 (RHD)	P4	103 (RHD)		

MULTIPLEX COMMUNICATION SYSTEM (RHD)

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	87	R/B No.1 (Lower Finish Panel)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1H		
1J	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2I	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3E		
3F		
3G		
3H		
5A	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5B		
5C		
5D		
5E		
5F		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	116 (RHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IA1	118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB1	118 (RHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
IC1	118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
ID1	118 (RHD)	Roof Wire and Cowl Wire (Left Side of Instrument Panel)
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
II1	120 (RHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
IJ1	120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	122 (RHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC2	122 (RHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BC3		
BD1	122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)
BF1	124 (RHD)	Floor Wire and Front Seat RH Wire (Under the Driver's Seat)

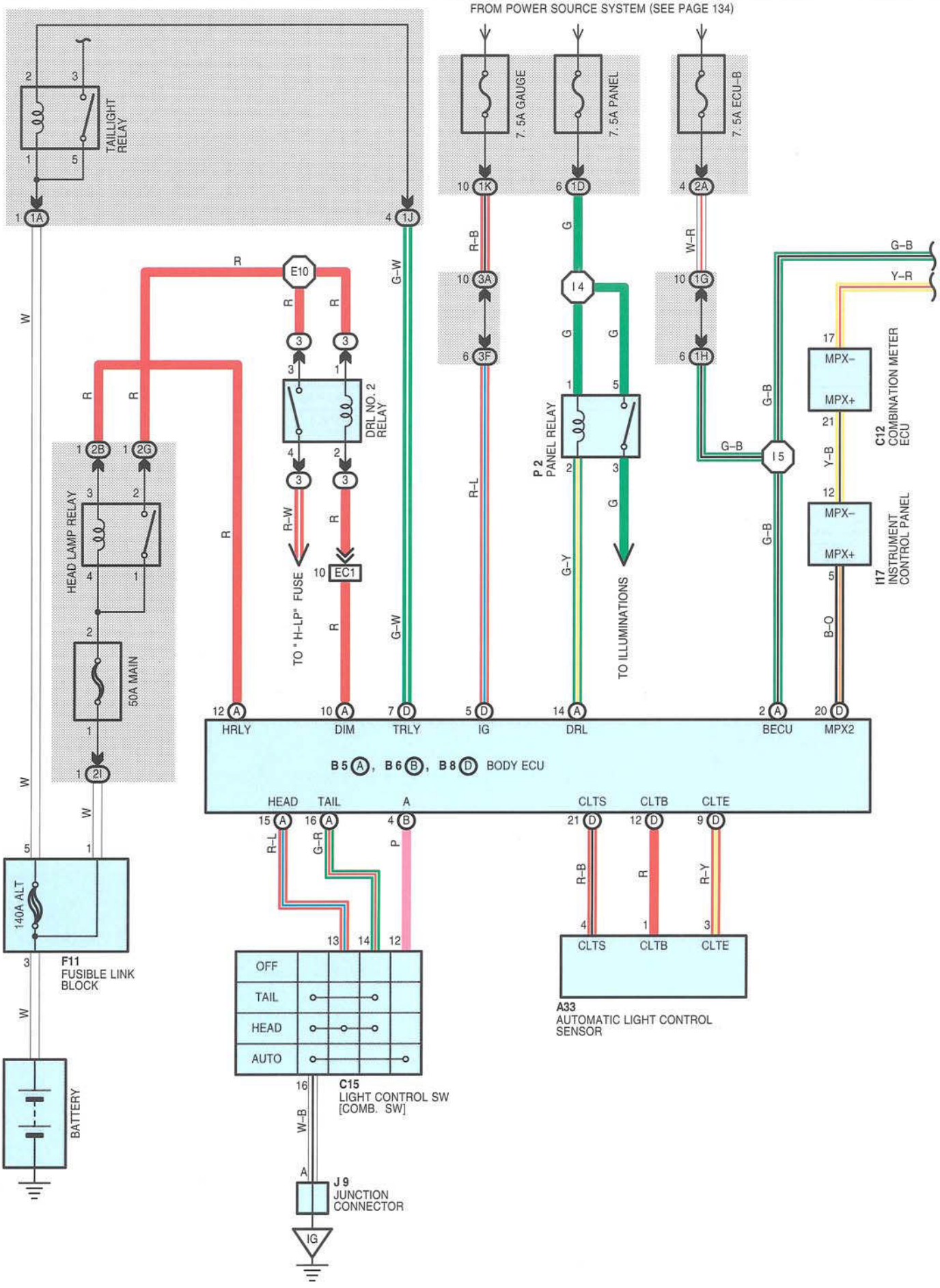
: GROUND POINTS

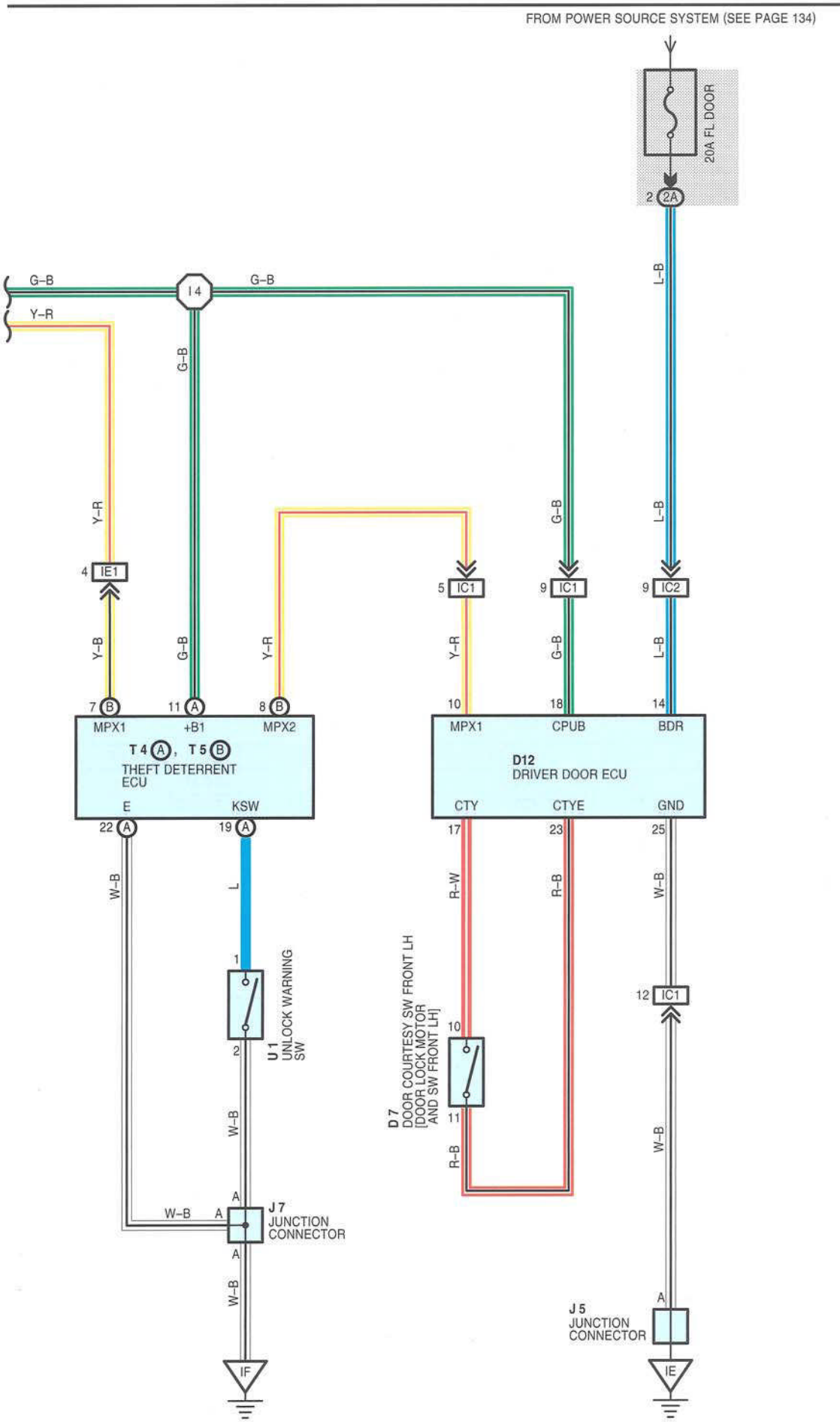
Code	See Page	Ground Points Location
EA	116 (RHD)	Engine Compartment Right
ED	116 (RHD)	Right Radiator Side Support
IE	118 (RHD)	Cowl Side Panel LH
IF	118 (RHD)	Dash Panel Center
IG	118 (RHD)	Cowl Side Panel RH
IH	118 (RHD)	Instrument Panel Brace RH
BJ	122 (RHD)	Under the Left Center Pillar
BK	122 (RHD)	Under the Right Center Pillar
BL	122 (RHD)	Left Rear Quarter Panel
BM	122 (RHD)	Under the Rear RH Seat
BN	122 (RHD)	Back Panel Center

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I1	120 (RHD)	Cowl Wire	B1	122 (RHD)	Rear Door RH Wire
I4			B3	122 (RHD)	Roof Wire
I8			B4		
I10			B6	122 (RHD)	Floor Wire
I11			B7	122 (RHD)	Floor No.2 Wire
I12			B8	122 (RHD)	Floor Wire

AUTOMATIC LIGHT CONTROL (LHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A FL DOOR
2 2A
L-B
G-B
I4
G-B
Y-R
G-B
Y-R
4 IE1
Y-B
7 B
MPX1
11 A
+B1
G-B
8 B
MPX2
T4 A, T5 B
THEFT DETERRENT ECU
E
KSW
22 A
19 A
W-B
L
1
2
U1
UNLOCK WARNING SW
W-B
A
W-B
A
J7
JUNCTION CONNECTOR
A
W-B
IF
5 IC1
Y-R
10
9 IC1
G-B
18
9 IC2
L-B
14
MPX1
CPUB
BDR
D12
DRIVER DOOR ECU
CTY
CTYE
GND
17
23
25
R-W
R-B
W-B
D7
DOOR COURTESY SW FRONT LH
[DOOR LOCK MOTOR AND SW FRONT LH]
10
11
R-B
12 IC1
W-B
A
J5
JUNCTION CONNECTOR
IE

AUTOMATIC LIGHT CONTROL (LHD)

SYSTEM OUTLINE

When the light control SW is set at AUTO, the automatic light control system automatically turns on or off the taillights and headlights depending on the brightness around the vehicle.

AUTOMATIC LIGHT CONTROL OPERATION

The automatic light control sensor converts the intensity of the illumination into frequency and inputs it to the body ECU. When the light control SW is set at AUTO, the signal is input to TERMINAL A of the body ECU. Through communication control of the body ECU and door ECU etc. , the taillights and headlights are automatically turned on or off.

* Turn on Function
  When the body ECU receives a frequency signal from the automatic light control sensor, and determines that the brightness around the vehicle is below a predetermined level, it controls the TERMINALS TRLY and HRLY. This turns on the taillight relay and HEAD LAMP relay, and thus turns on the headlights and taillights.
* Turn off Function
  When the body ECU receivers a frequency signal from the automatic light control sensor, and determines that the brightness around the vehicle is above a predetermined level, it controls the TERMINALS TRLY and HRLY. This turns off the taillight relay and HEAD LAMP relay, and thus turns off the headlights and taillights. In addition, the headlights and taillights will be turned off when the ignition SW is turned from on to off and the driver door is opened, during automatic light control.

SERVICE HINTS

C15 LIGHT CONTROL SW [COMB. SW]

14–16 : Closed with the light control SW at **TAIL** or **HEAD** position
13–16 : Closed with the light control SW at **HEAD** position
12–16 : Closed with the light control SW at **AUTO** position

D7 DOOR COURTESY SW FRONT LH

10–11 : Closed with the door open

D12 DRIVER DOOR ECU

17–23 : Continuity with the driver door open

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A33	92 (LHD)	D7	94 (LHD)	J9	93 (LHD)
B5 A	92 (LHD)	D12	94 (LHD)	P2	93 (LHD)
B6 B	92 (LHD)	F11	90 (LHD)	T4 A	93 (LHD)
B8 D	92 (LHD)	I17	93 (LHD)	T5 B	93 (LHD)
C12	92 (LHD)	J5	93 (LHD)	U1	93 (LHD)
C15	92 (LHD)	J7	93 (LHD)		

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
3	88	R/B No.3 (Engine Compartment Front Left)

▭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A 1D 1G 1H	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J 1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A 2B	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2G 2I	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A 3F	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	106 (LHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)

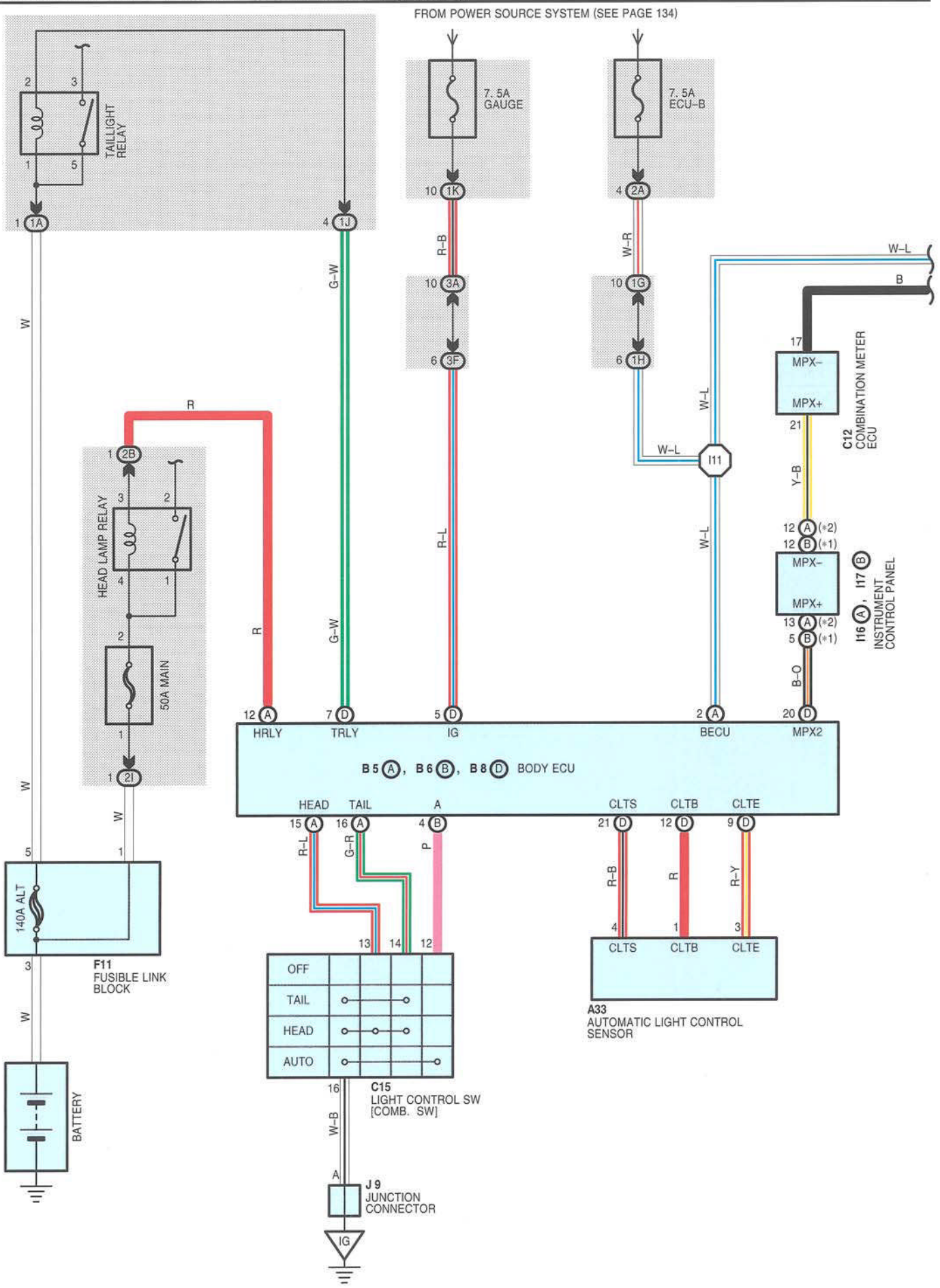
: GROUND POINTS

Code	See Page	Ground Points Location
IE	108 (LHD)	Cowl Side Panel LH
IF	108 (LHD)	Dash Panel Center
IG	108 (LHD)	Cowl Side Panel RH

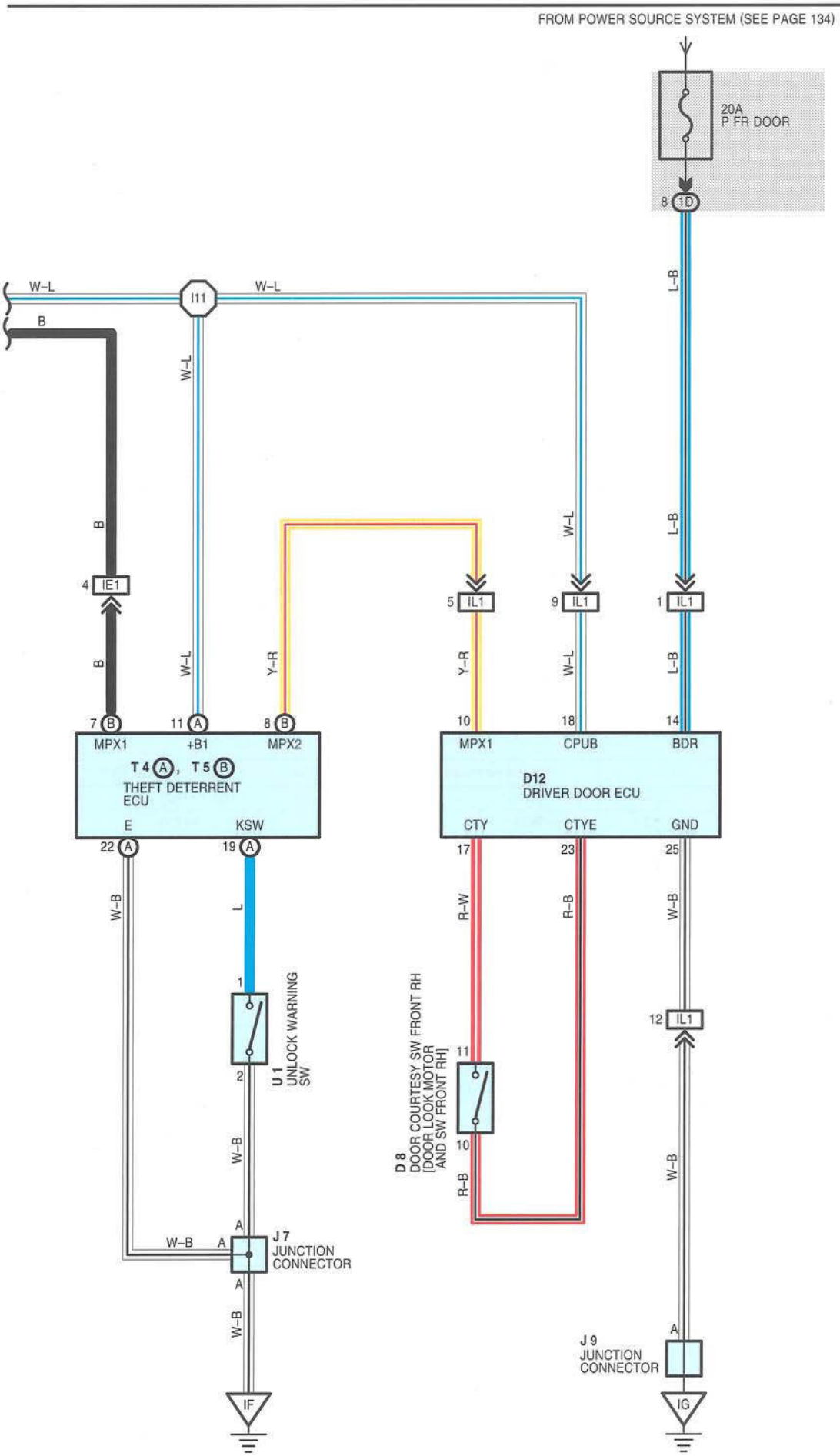
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	106 (LHD)	Engine Room Main Wire	I5	110 (LHD)	Cowl Wire
I4	110 (LHD)	Cowl Wire			

AUTOMATIC LIGHT CONTROL (RHD)



* 1 : EUROPE
* 2 : EXCEPT EUROPE



AUTOMATIC LIGHT CONTROL (RHD)

SYSTEM OUTLINE

When the light control SW is set at AUTO, the automatic light control system automatically turns on or off the taillights and headlights depending on the brightness around the vehicle.

AUTOMATIC LIGHT CONTROL OPERATION

The automatic light control sensor converts the intensity of the illumination into frequency and inputs it to the body ECU. When the light control SW is set at AUTO, the signal is input to TERMINAL A of the body ECU. Through communication control of the body ECU and door ECU etc. , the taillights and headlights are automatically turned on or off.

* Turn on Function
  When the body ECU receives a frequency signal from the automatic light control sensor, and determines that the brightness around the vehicle is below a predetermined level, it controls the TERMINALS TRLY and HRLY. This turns on the taillight relay and HEAD LAMP relay, and thus turns on the headlights and taillights.
* Turn off Function
  When the body ECU receivers a frequency signal from the automatic light control sensor, and determines that the brightness around the vehicle is above a predetermined level, it controls the TERMINALS TRLY and HRLY. This turns off the taillight relay and HEAD LAMP relay, and thus turns off the headlights and taillights. In addition, the headlights and taillights will be turned off when the ignition SW is turned from on to off and the driver door is opened, during automatic light control.

SERVICE HINTS

C15 LIGHT CONTROL SW [COMB. SW]

14–16 : Closed with the light control SW at **TAIL** or **HEAD** position
13–16 : Closed with the light control SW at **HEAD** position
12–16 : Closed with the light control SW at **AUTO** position

D8 DOOR COURTESY SW FRONT RH

11–10 : Closed with the door open

D12 DRIVER DOOR ECU

17–23 : Continuity with the driver door open

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
A33		100 (RHD)	D8		102 (RHD)	J9		101 (RHD)
B5	A	100 (RHD)	D12		102 (RHD)	T4	A	101 (RHD)
B6	B	100 (RHD)	F11		98 (RHD)	T5	B	101 (RHD)
B8	D	100 (RHD)	I16	A	101 (RHD)	U1		101 (RHD)
C12		100 (RHD)	I17	B	101 (RHD)			
C15		100 (RHD)	J7		101 (RHD)			

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1J	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2I	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)

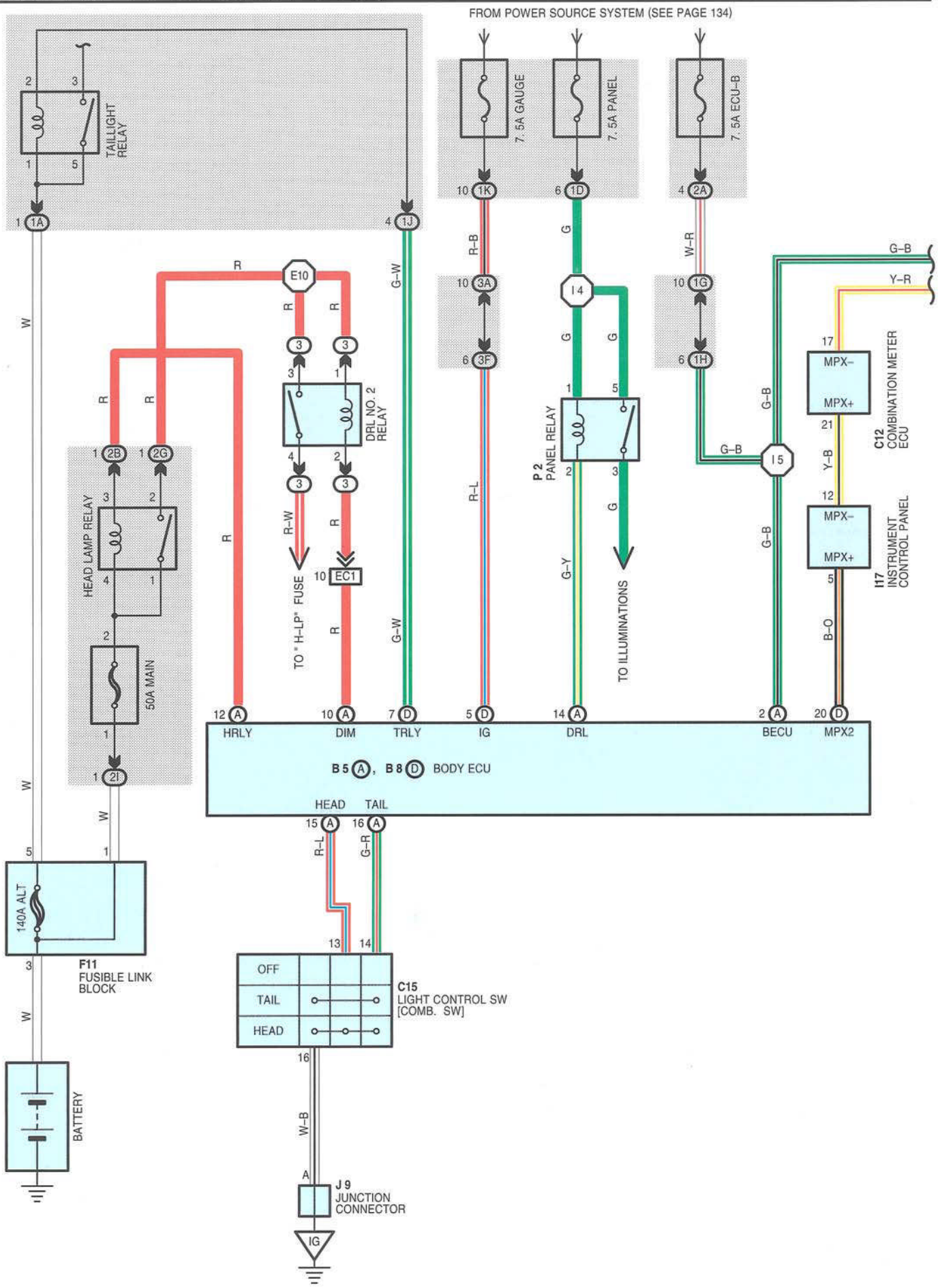
: GROUND POINTS

Code	See Page	Ground Points Location
IF	118 (RHD)	Dash Panel Center
IG	118 (RHD)	Cowl Side Panel RH

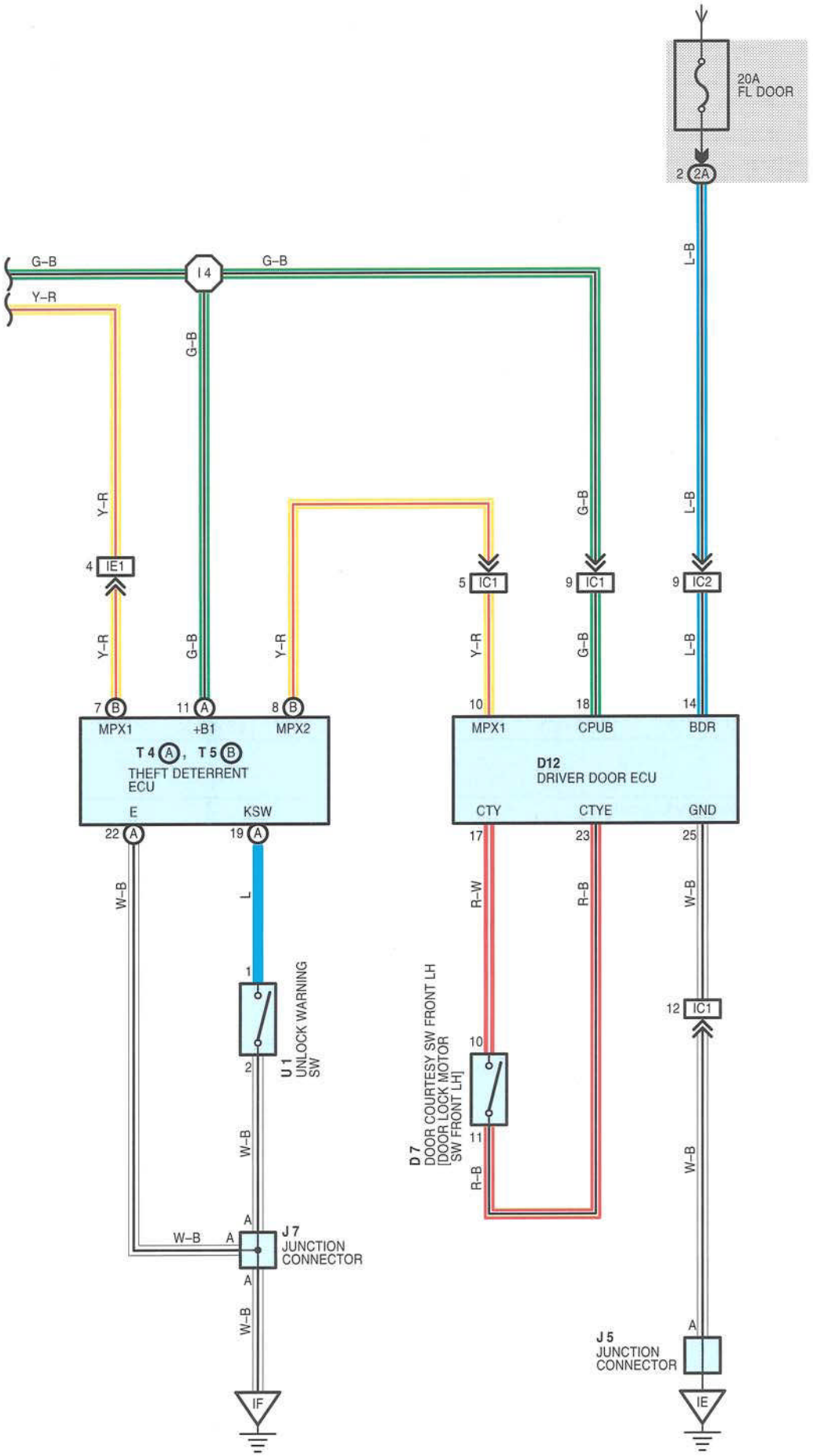
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I11	120 (RHD)	Cowl Wire			

LIGHT AUTO TURN OFF (LHD)



FROM POWER SOURCE SYSTEM (SEE PAGE 134)



LIGHT AUTO TURN OFF (LHD)

SYSTEM OUTLINE

This system automatically turns off the front fog lights and/or headlights when the driver door is opened and closed to prevent the lights from remaining lit.

LIGHT AUTO TURN OFF OPERATION

* Front fog lights and headlights on

If the ignition SW is turned from on to off with the front fog light and headlights turned on (The light control SW at HEAD position), the signal is input to TERMINAL IG of the body ECU. At this time, if the driver door is opened, the signal is input from the door courtesy SW front LH to TERMINAL CTY of the driver door ECU. After that, TERMINALS TAIL and HEAD of the body ECU is controlled through communication control of the body ECU and door ECU etc. to turn off the taillight relay and HEAD LAMP relay. As a result, the current flowing into the front fog lights and headlights is cut off to turn off the front fog lights and headlights.

SERVICE HINTS

C15 LIGHT CONTROL SW [COMB. SW]

14–16 : Closed with the light control SW at **TAIL** or **HEAD** position
13–16 : Closed with the light control SW at **HEAD** position

D7 DOOR COURTESY SW FRONT LH

10–11 : Closed with the door open

D12 DRIVER DOOR ECU

17–23 : Continuity with the driver door open

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code		See Page
B5	A	92 (LHD)	D12	94 (LHD)	J9		93 (LHD)
B8	D	92 (LHD)	F11	90 (LHD)	P2		93 (LHD)
C12		92 (LHD)	I17	93 (LHD)	T4	A	93 (LHD)
C15		92 (LHD)	J5	93 (LHD)	T5	B	93 (LHD)
D7		94 (LHD)	J7	93 (LHD)	U1		93 (LHD)

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
3	88	R/B No.3 (Engine Compartment Front Left)

▭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1D		
1G		
1H		
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2G	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2I		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	106 (LHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)

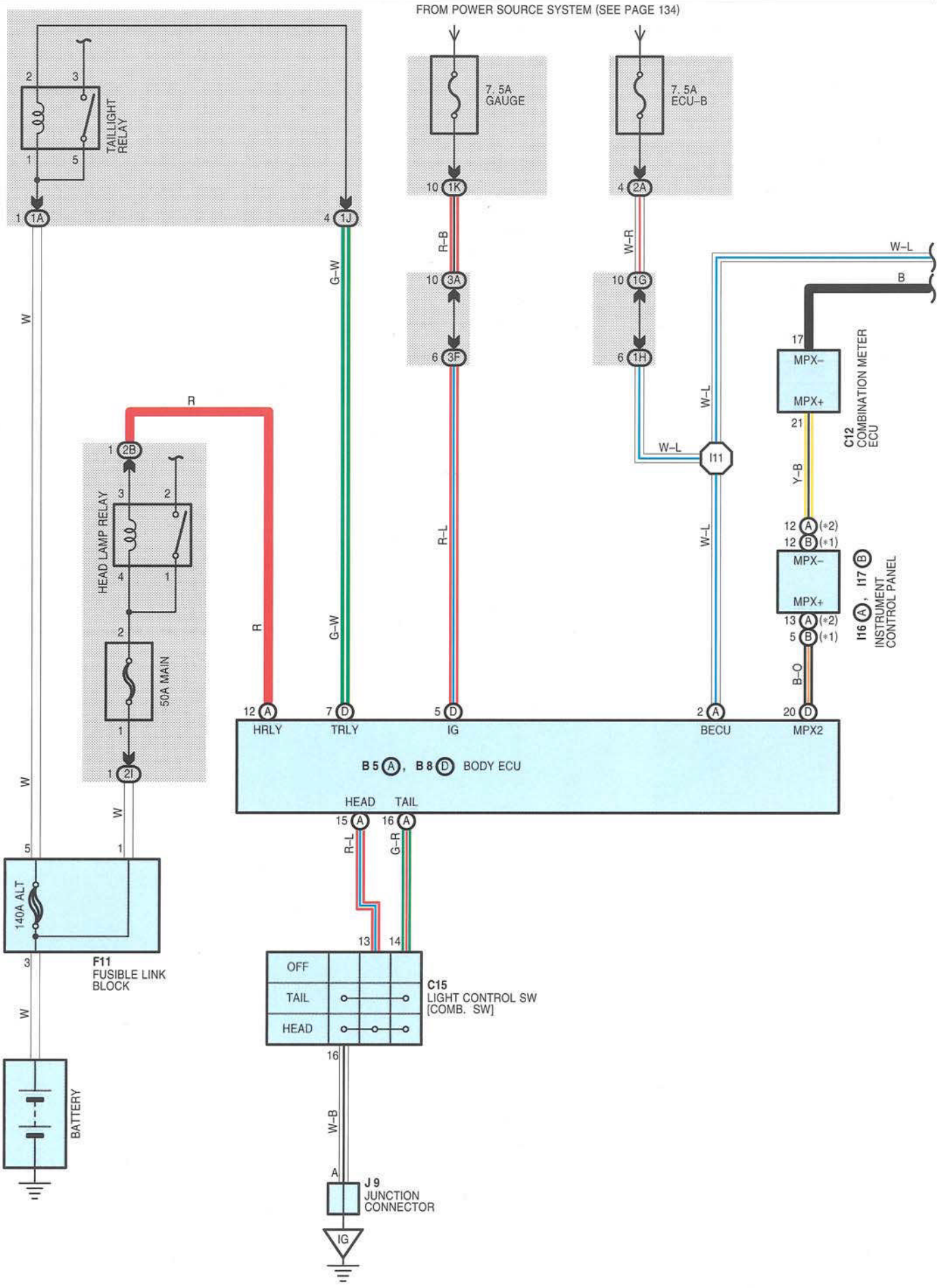
: GROUND POINTS

Code	See Page	Ground Points Location
IE	108 (LHD)	Cowl Side Panel LH
IF	108 (LHD)	Dash Panel Center
IG	108 (LHD)	Cowl Side Panel RH

: SPLICE POINTS

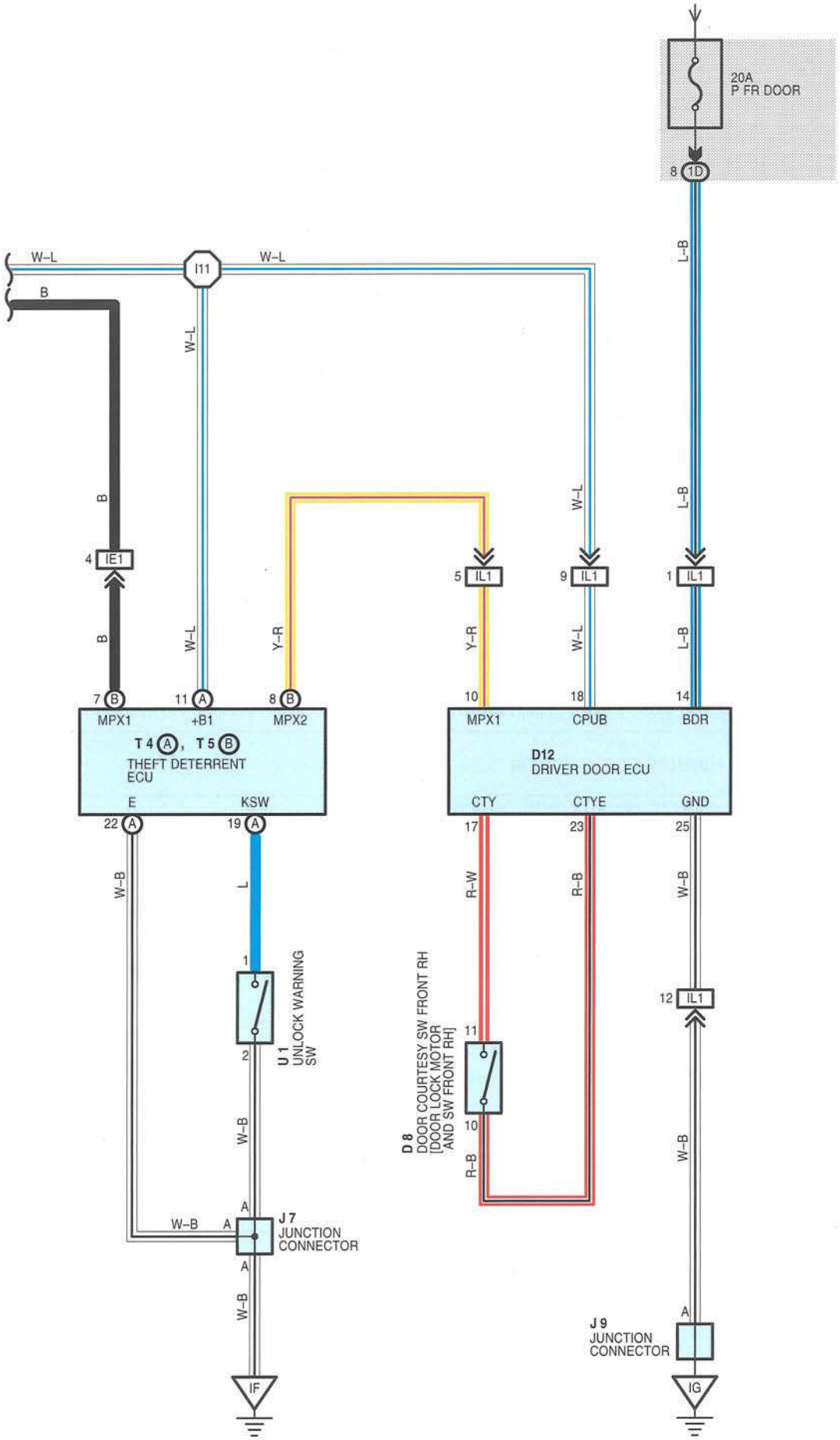
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	106 (LHD)	Engine Room Main Wire	I5	110 (LHD)	Cowl Wire
I4	110 (LHD)	Cowl Wire			

LIGHT AUTO TURN OFF (RHD)



* 1 : EUROPE
* 2 : EXCEPT EUROPE

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



LIGHT AUTO TURN OFF (RHD)

SYSTEM OUTLINE

This system automatically turns off the front fog lights and/or headlights when the driver door is opened and closed to prevent the lights from remaining lit.

LIGHT AUTO TURN OFF OPERATION

* Front fog lights and headlights on

If the ignition SW is turned from on to off with the front fog light and headlights turned on (The light control SW at HEAD position), the signal is input to TERMINAL IG of the body ECU. At this time, if the driver door is opened, the signal is input from the door courtesy SW front RH to TERMINAL CTY of the driver door ECU. After that, TERMINALS TAIL and HEAD of the body ECU is controlled through communication control of the body ECU and door ECU etc. to turn off the taillight relay and HEAD LAMP relay. As a result, the current flowing into the front fog lights and headlights is cut off to turn off the front fog lights and headlights.

SERVICE HINTS

C15 LIGHT CONTROL SW [COMB. SW]

14-16 : Closed with the light control SW at **TAIL** or **HEAD** position
13-16 : Closed with the light control SW at **HEAD** position

D8 DOOR COURTESY SW FRONT RH

11-10 : Closed with the door open

D12 DRIVER DOOR ECU

17-23 : Continuity with the driver door open

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B5	A	100 (RHD)	D12		102 (RHD)	J9		101 (RHD)
B8	D	100 (RHD)	F11		98 (RHD)	T4	A	101 (RHD)
C12		100 (RHD)	I16	A	101 (RHD)	T5	B	101 (RHD)
C15		100 (RHD)	I17	B	101 (RHD)	U1		101 (RHD)
D8		102 (RHD)	J7		101 (RHD)			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1J	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2I	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)

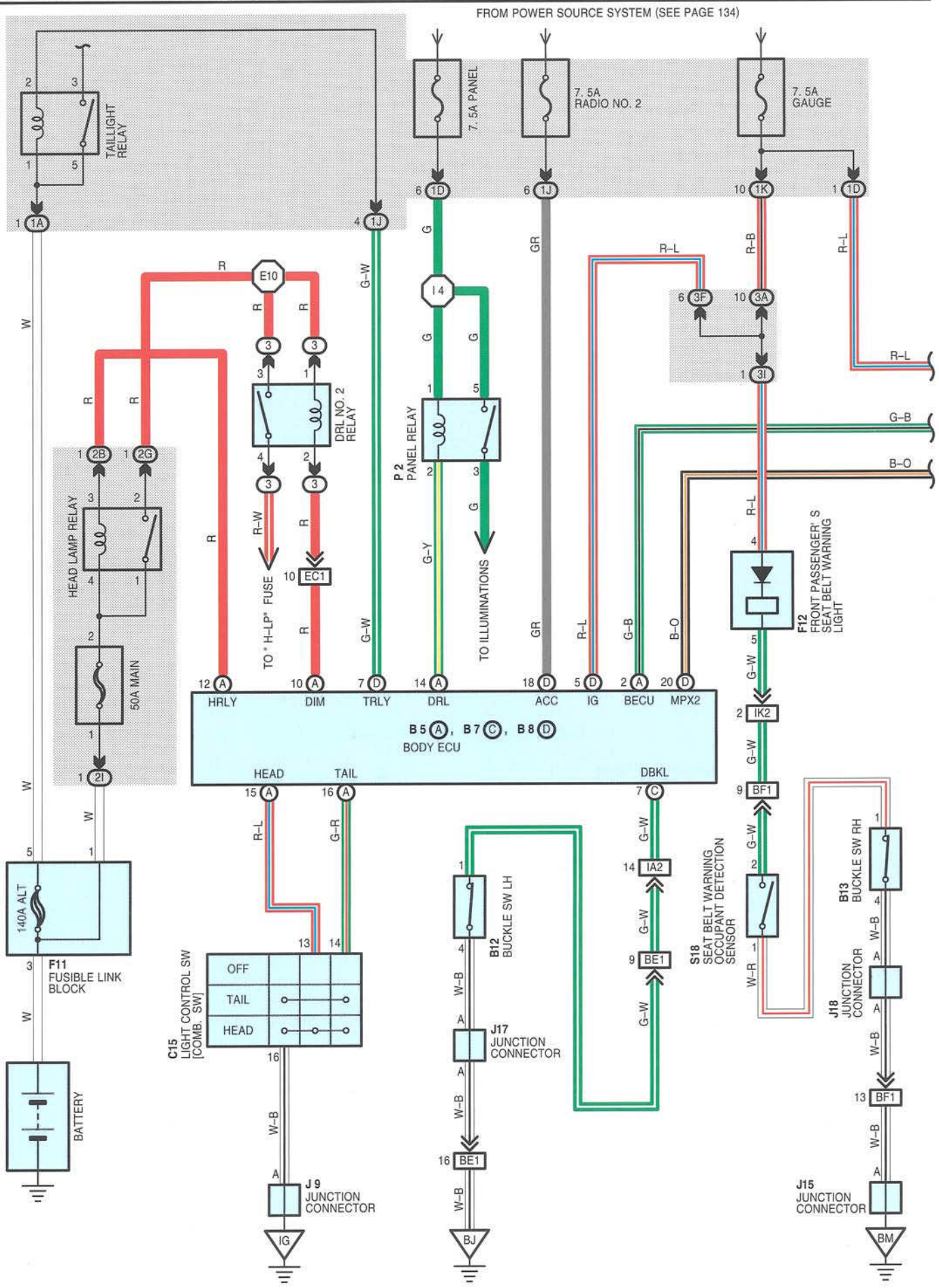
▽ : GROUND POINTS

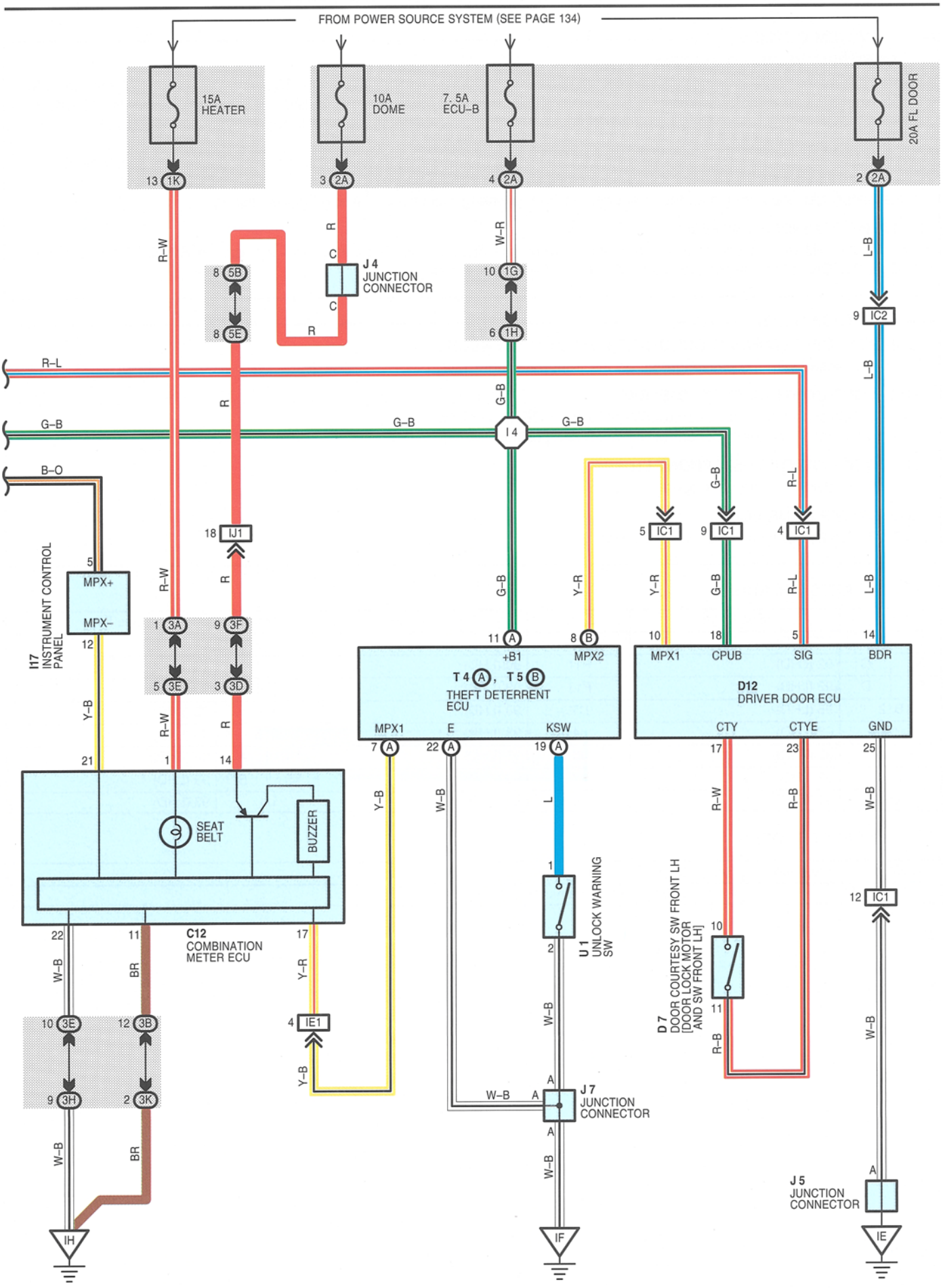
Code	See Page	Ground Points Location
IF	118 (RHD)	Dash Panel Center
IG	118 (RHD)	Cowl Side Panel RH

: **SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I11	120 (RHD)	Cowl Wire			

LIGHT REMINDER AND SEAT BELT WARNING (LHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
15A HEATER
10A DOME
7.5A ECU-B
20A FL DOOR
13 1K
3 2A
4 2A
2 2A
R-W
R
W-R
L-B
J4 JUNCTION CONNECTOR
8 5B
8 5E
10 1G
6 1H
9 IC2
R-L
G-B
I4
B-O
I17 INSTRUMENT CONTROL PANEL
MPX+
MPX-
5
12
18 IJ1
1 3A
9 3F
5 3E
3 3D
21
1
14
Y-B
11 A
8 B
+B1
MPX2
5 IC1
9 IC1
4 IC1
10
18
5
14
MPX1
CPUB
SIG
BDR
T4 A, T5 B
THEFT DETERRENT ECU
D12
DRIVER DOOR ECU
MPX1
E
KSW
CTY
CTYE
GND
7 A
22 A
19 A
17
23
25
SEAT BELT
BUZZER
C12
COMBINATION METER ECU
22
11
17
10 3E
12 3B
9 3H
2 3K
4 IE1
U1 UNLOCK WARNING SW
1
2
W-B
BR
Y-R
L
D7
DOOR COURTESY SW FRONT LH
[DOOR LOCK MOTOR AND SW FRONT LH]
10
11
R-B
12 IC1
J7 JUNCTION CONNECTOR
A
J5 JUNCTION CONNECTOR
IH
IF
IE

LIGHT REMINDER AND SEAT BELT WARNING (LHD)

SYSTEM OUTLINE

1. SEAT BELT WARNING SYSTEM

When the ignition SW is turned to the ON position, the signal is input to the body ECU and door ECU. At this time, to determine whether or not the driver fastens the seat belt, the signal from the buckle SW LH is input to TERMINAL DBKL of the body ECU. If the driver does not fasten the seat belt, the seat belt warning light in the combination meter light up goes on, in response to the communication control of the body ECU and door ECU etc.
Additionally, the sensor (Seat belt warning occupant detection sensor) installed on the front passenger seat detects the passenger and determines whether or not the passenger fastens the seat belt.
If the passenger does not fasten the seat belt, the front passenger seat belt warning light is flashed.

2. LIGHT REMINDER SYSTEM

The buzzer will remind you to turn the lights off when the driver's door is opened with the ignition SW OFF and also the taillight SW ON. If the taillight SW is turned to OFF, the buzzer will stop

SERVICE HINTS

S18 SEAT BELT WARNING OCCUPANT DETECTION SENSOR

1-2 : Closed with the passenger sit on the front passenger seat

C15 LIGHT CONTROL SW [COMB. SW]

14-16 : Closed with the light control SW at **TAIL** or **HEAD** position
13-16 : Closed with the light control SW at **HEAD** position

D7 DOOR COURTESY SW FRONT LH

10-11 : Closed with the door open

D12 DRIVER DOOR ECU

17-23 : Continuity with the driver door open

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code		See Page
B5	A	92 (LHD)	D12	94 (LHD)	J15		94 (LHD)
B7	C	92 (LHD)	F11	90 (LHD)	J17		96 (LHD)
B8	D	92 (LHD)	F12	93 (LHD)	J18		96 (LHD)
B12		96 (LHD)	I17	93 (LHD)	P2		93 (LHD)
B13		96 (LHD)	J4	93 (LHD)	S18		96 (LHD)
C12		92 (LHD)	J5	93 (LHD)	T4	A	93 (LHD)
C15		92 (LHD)	J7	93 (LHD)	T5	B	93 (LHD)
D7		94 (LHD)	J9	93 (LHD)	U1		93 (LHD)

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
3	88	R/B No.3 (Engine Compartment Front Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1D		
1G		
1H		
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2G	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2I		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3D		
3E		
3F		
3H		
3I		
3K		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5E		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	106 (LHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IA2	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IK2	110 (LHD)	Floor Wire and Instrument Panel Wire (Behind the Glove Box)
BE1	114 (LHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)
BF1	114 (LHD)	Floor Wire and Front Seat RH Wire (Under the Front Passenger's Seat)

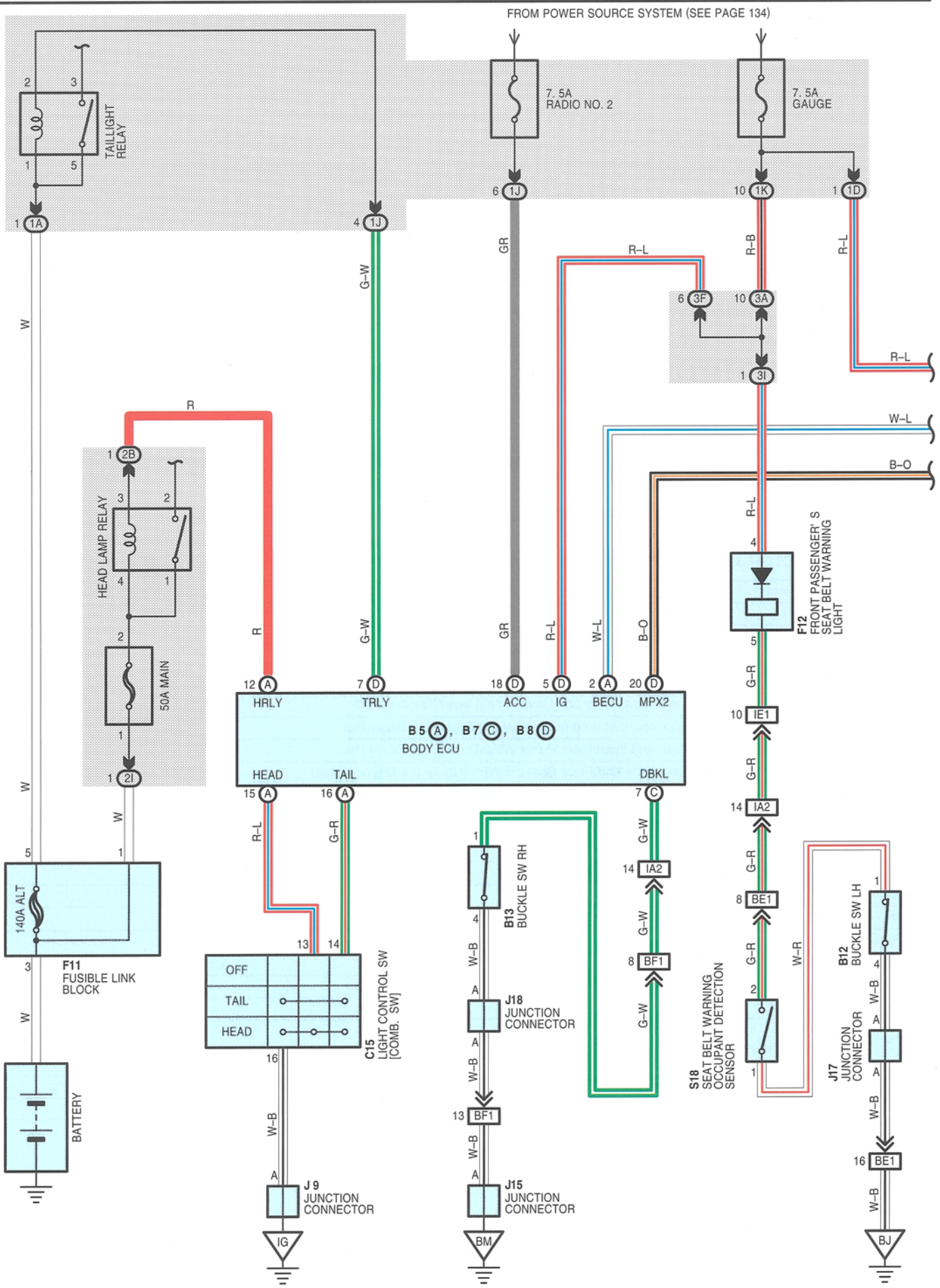
: GROUND POINTS

Code	See Page	Ground Points Location
IE	108 (LHD)	Cowl Side Panel LH
IF	108 (LHD)	Dash Panel Center
IG	108 (LHD)	Cowl Side Panel RH
IH	108 (LHD)	Instrument Panel Brace RH
BJ	112 (LHD)	Under the Left Center Pillar
BM	112 (LHD)	Under the Rear RH Seat

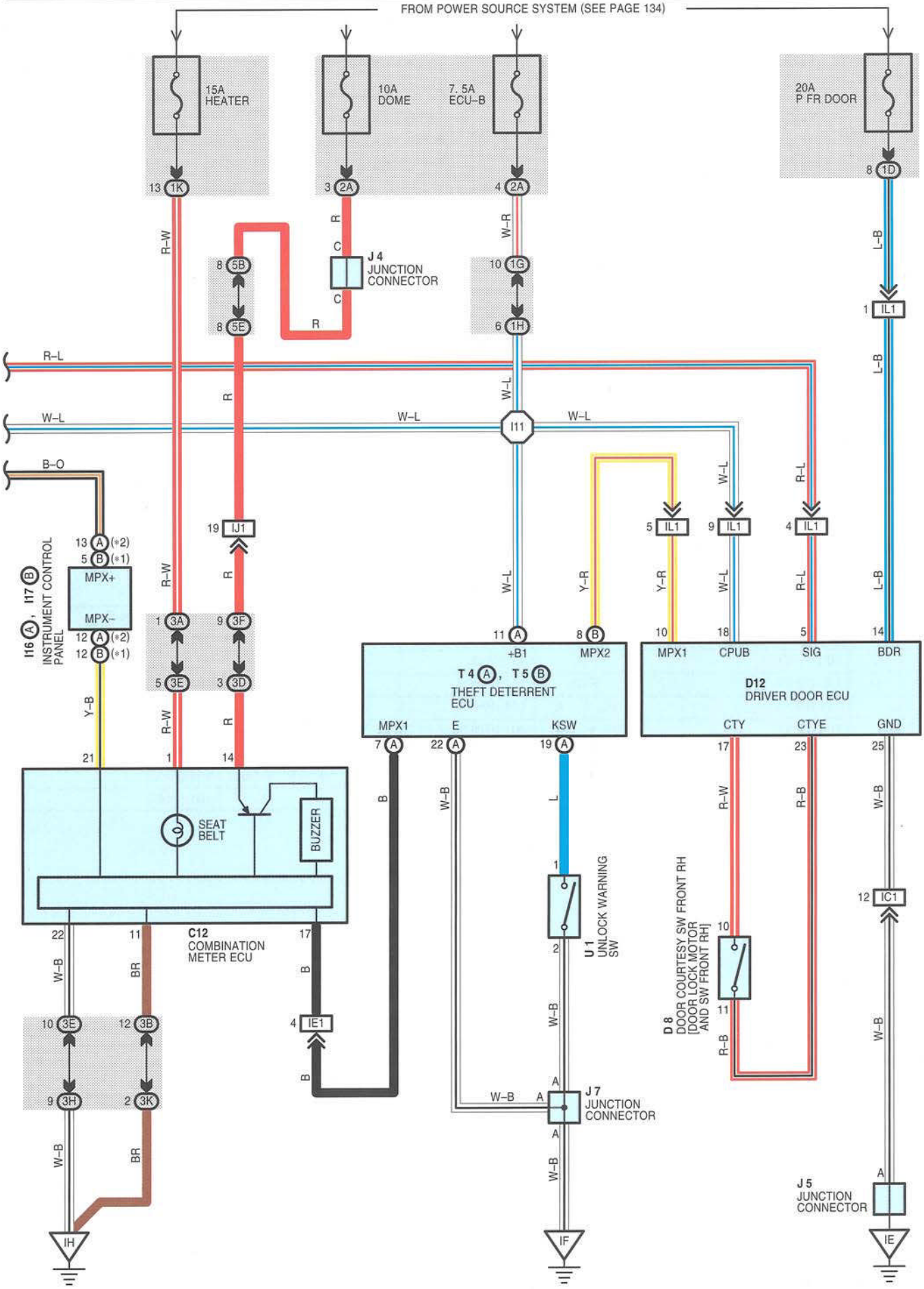
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	106 (LHD)	Engine Room Main Wire	I4	110 (LHD)	Cowl Wire

LIGHT REMINDER AND SEAT BELT WARNING (RHD)



* 1 : EUROPE
* 2 : EXCEPT EUROPE



LIGHT REMINDER AND SEAT BELT WARNING (RHD)

SYSTEM OUTLINE

1. SEAT BELT WARNING SYSTEM

When the ignition SW is turned to the ON position, the signal is input to the body ECU and door ECU. At this time, to determine whether or not the driver fastens the seat belt, the signal from the buckle SW RH is input to TERMINAL DBKL of the body ECU. If the driver does not fasten the seat belt, the seat belt warning light in the combination meter light up and the alarm buzzer goes on, in response to the communication control of the body ECU and door ECU etc.
Additionally, the sensor (Seat belt warning occupant detection sensor) installed on the front passenger seat detects the passenger and determines whether or not the passenger fastens the seat belt.
If the passenger does not fasten the seat belt, the front passenger seat belt warning light is flashed.

2. LIGHT REMINDER SYSTEM

The buzzer will remind you to turn the lights off when the driver's door is opened with the ignition SW OFF and also the taillight SW ON. If the taillight SW is turned to OFF, the buzzer will stop

SERVICE HINTS

S17 SEAT BELT WARNING OCCUPANT DETECTION SENSOR

1-2 : Closed with the passenger sit on the front passenger seat

C15 LIGHT CONTROL SW [COMB. SW]

14-16 : Closed with the light control SW at **TAIL** or **HEAD** position
13-16 : Closed with the light control SW at **HEAD** position

D8 DOOR COURTESY SW FRONT RH

10-11 : Closed with the door open

D12 DRIVER DOOR ECU

17-23 : Continuity with the driver door open

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B5	A	100 (RHD)	D12		102 (RHD)	J9		101 (RHD)
B7	C	100 (RHD)	F11		98 (RHD)	J15		102 (RHD)
B8	D	100 (RHD)	F12		101 (RHD)	J17		104 (RHD)
B12		104 (RHD)	I16	A	101 (RHD)	J18		104 (RHD)
B13		104 (RHD)	I17	B	101 (RHD)	S18		104 (RHD)
C12		100 (RHD)	J4		101 (RHD)	T4	A	101 (RHD)
C15		100 (RHD)	J5		101 (RHD)	T5	B	101 (RHD)
D8		102 (RHD)	J7		101 (RHD)	U1		101 (RHD)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1J	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2I	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3D		
3E		
3F		
3H		
3I		
3K		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5E		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC1	118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IJ1	120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
BE1	124 (RHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat)
BF1	124 (RHD)	Floor Wire and Front Seat RH Wire (Under the Driver's Seat)

: GROUND POINTS

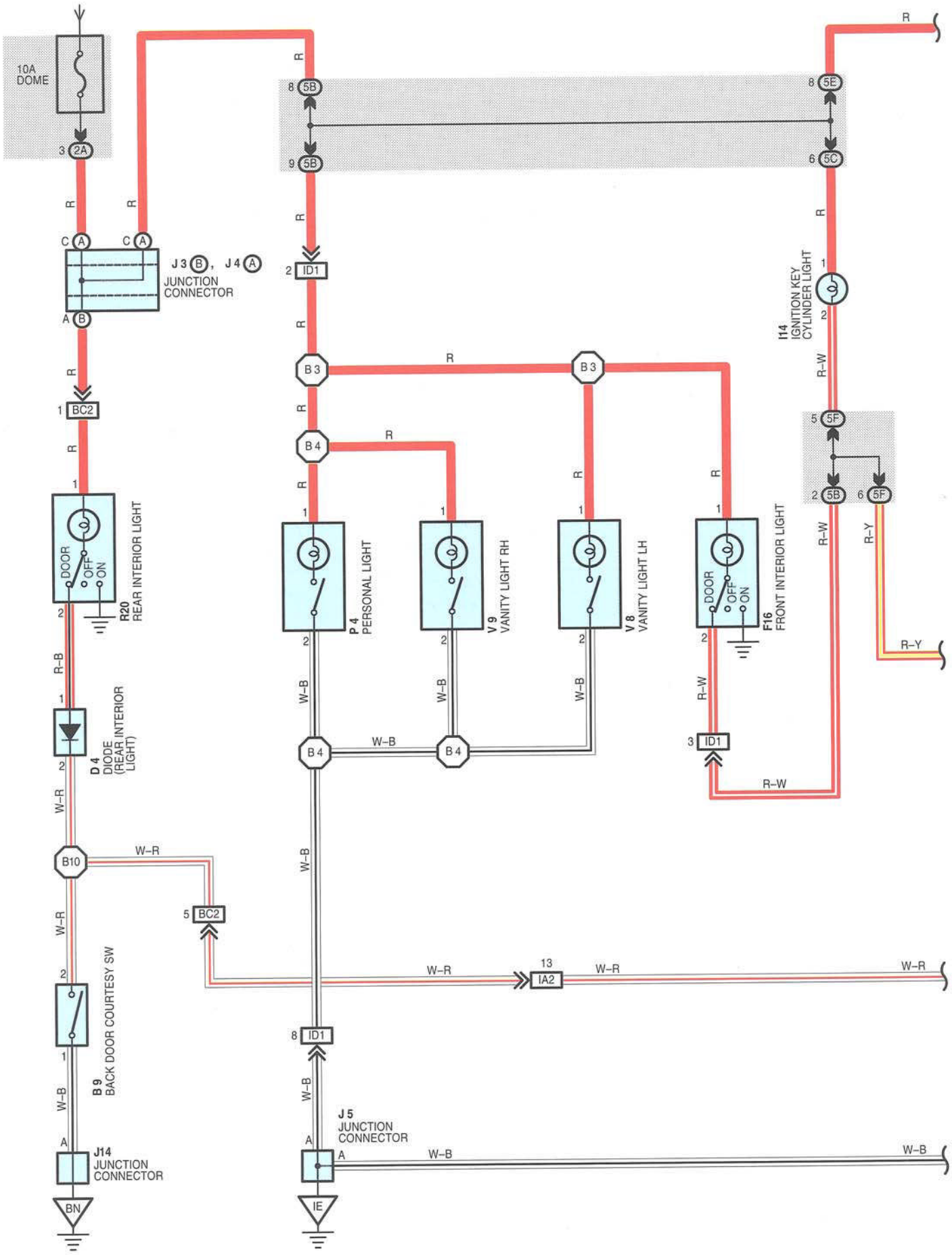
Code	See Page	Ground Points Location
IE	118 (RHD)	Cowl Side Panel LH
IF	118 (RHD)	Dash Panel Center
IG	118 (RHD)	Cowl Side Panel RH
IH	118 (RHD)	Instrument Panel Brace RH
BJ	122 (RHD)	Under the Left Center Pillar
BM	122 (RHD)	Under the Rear RH Seat

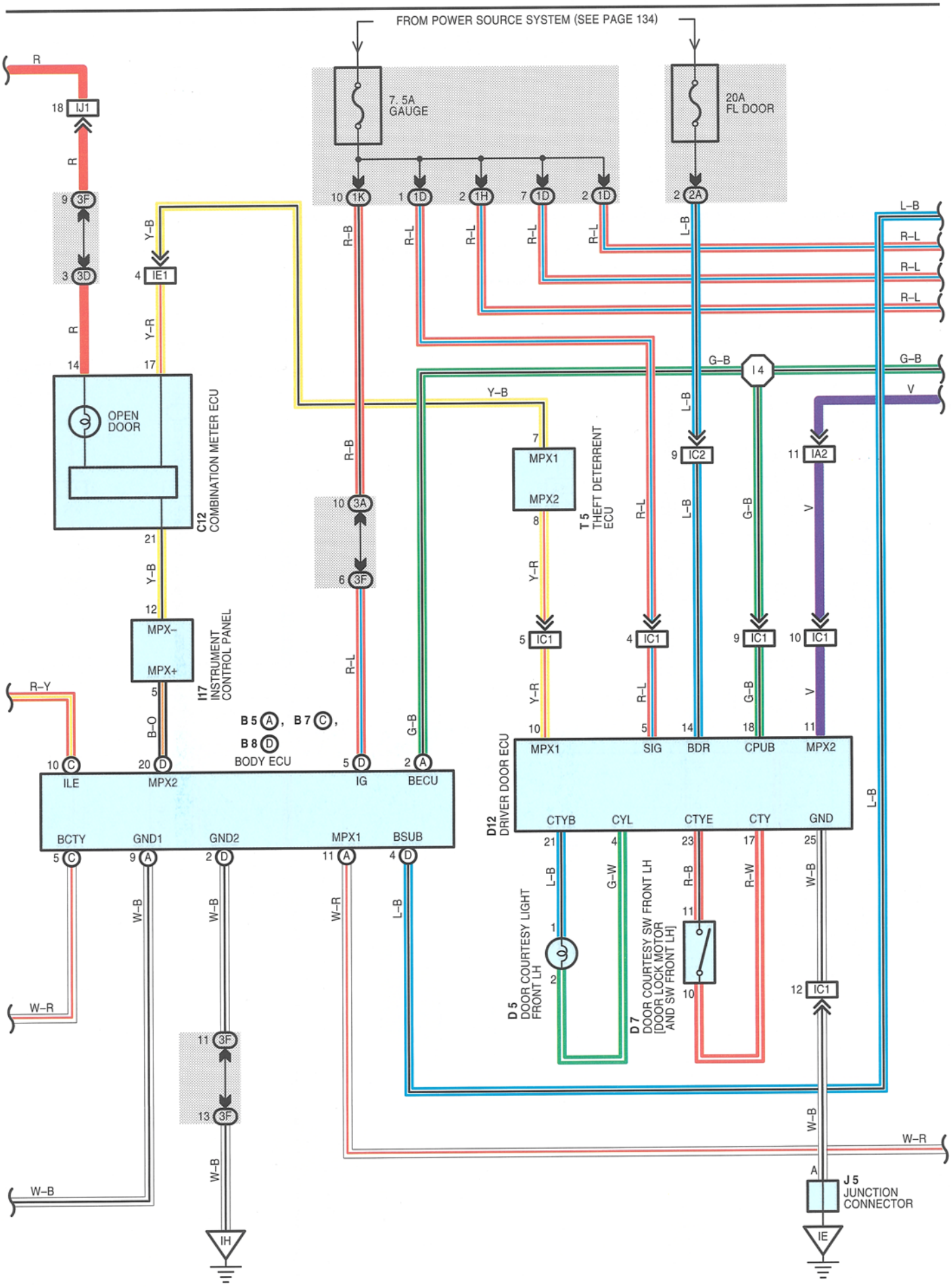
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I11	120 (RHD)	Cowl Wire			

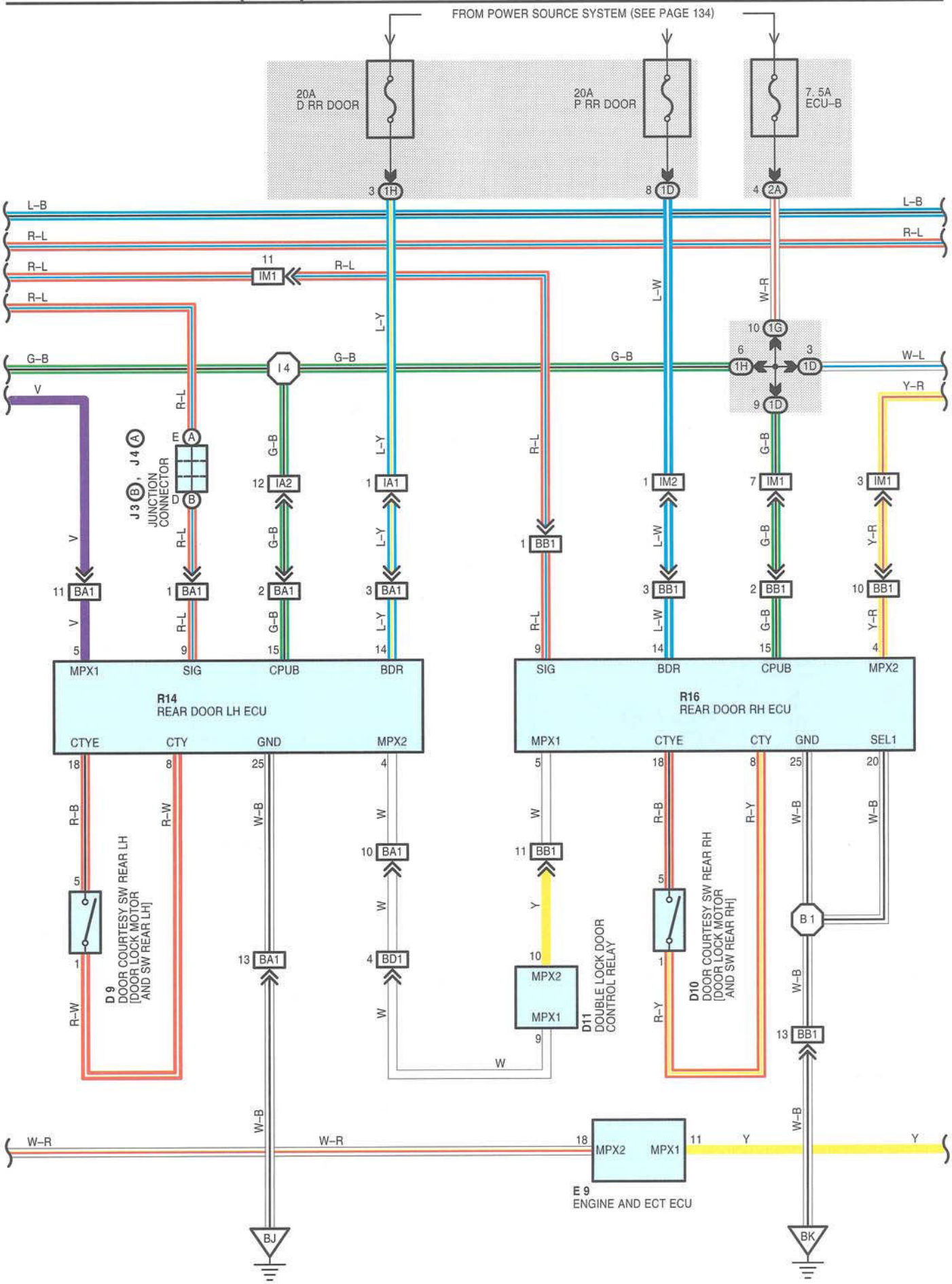
INTERIOR LIGHT (LHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

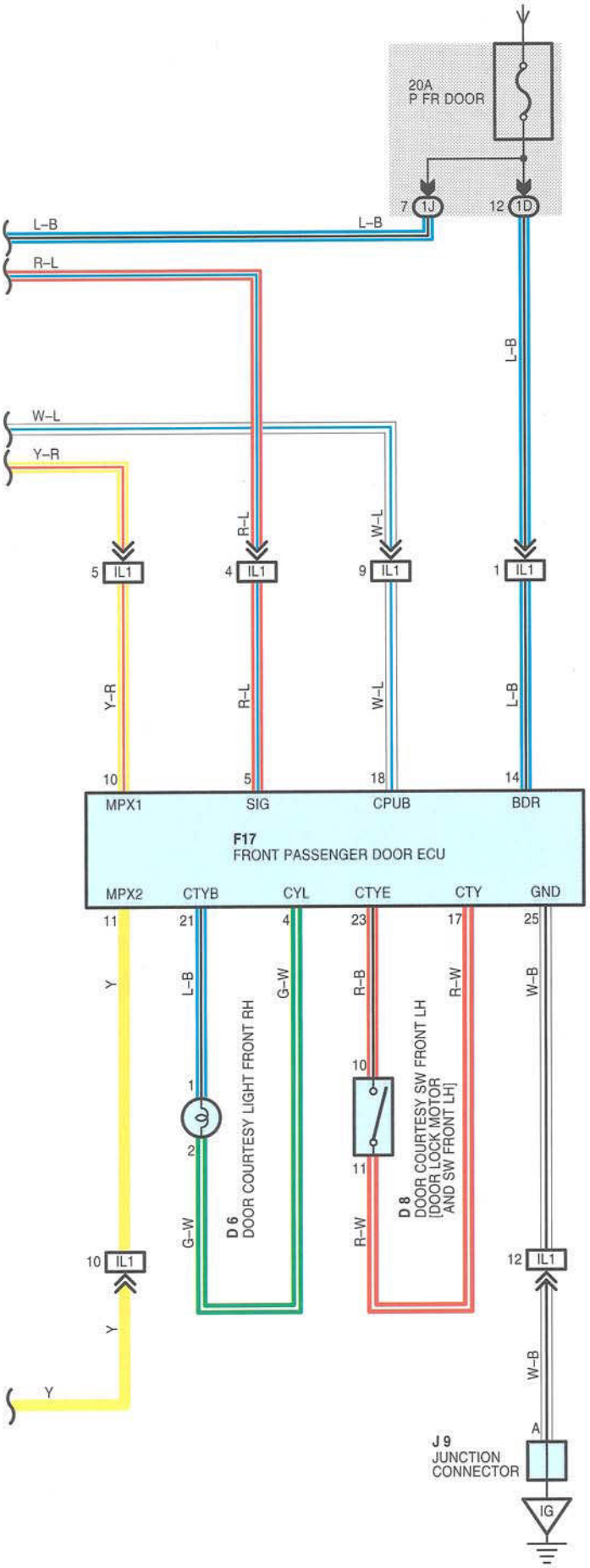



FROM POWER SOURCE SYSTEM (SEE PAGE 134)
7.5A GAUGE
20A FL DOOR
OPEN DOOR
C12 COMBINATION METER ECU
I17 INSTRUMENT CONTROL PANEL
MPX-
MPX+
B5 A, B7 C, B8 D BODY ECU
ILE
MPX2
IG
BECU
BCTY
GND1
GND2
MPX1
BSUB
T5 THEFT DETERRENT ECU
MPX1
MPX2
D12 DRIVER DOOR ECU
MPX1
SIG
BDR
CPUB
MPX2
CTYB
CYL
CTYE
CTY
GND
D5 DOOR COURTESY LIGHT FRONT LH
D7 DOOR COURTESY SW FRONT LH [DOOR LOCK MOTOR AND SW FRONT LH]
J5 JUNCTION CONNECTOR
IH
IE

INTERIOR LIGHT (LHD)



FROM POWER SOURCE SYSTEM (SEE PAGE 134)



INTERIOR LIGHT (LHD)

SYSTEM OUTLINE

ILLUMINATED ENTRY SYSTEM

This system provides various functions listed below through communication control of the body ECU and door ECU etc.

* Each relevant light lights up if any door is opened.
* If all the doors are closed with the ignition SW set at OFF after any door is opened, each light lights up for 15 sec., and then fades out when the time set on the timer has elapsed.
* If any door is unlocked from the driver or passenger side or if any door is unlocked with the unlock SW on the transmitter after all the doors are closed and locked, each light lights up for 15 sec., and then fades out when the time set on the timer has elapsed.
* If the ignition SW is turned to the ACC or ON position while each light is being lit by the timer, the timer lighting is cancelled and the light fades out.
* If all the doors are closed and locked from the driver or passenger side or with the lock SW on the transmitter while each light is being lit, the timer lighting is cancelled and the light fades out.
* If all the doors are closed with the ignition SW set at ACC or ON after any door is opened, the timer lighting is cancelled and the light fades out.
* Each light above is the front interior light, ignition key cylinder light.

SERVICE HINTS

D7, D8 DOOR COURTESY SW FRONT LH, RH

10–11 : Closed with the door open

D9, D10 DOOR COURTESY SW REAR LH, RH

1–5 : Closed with the door open

B9 BACK DOOR COURTESY SW

1–2 : Closed with the door open

D12 DRIVER DOOR ECU

17–23 : Continuity with the driver door open

F17 FRONT PASSENGER DOOR ECU

17–23 : Continuity with the front passenger door open

R14 REAR DOOR LH ECU

8–18 : Continuity with the rear LH door open

R16 REAR DOOR RH ECU

8–18 : Continuity with the rear RH door open

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5 A	92 (LHD)	D10	94 (LHD)	J9	93 (LHD)
B7 C	92 (LHD)	D11	94 (LHD)	J14	94 (LHD)
B8 D	92 (LHD)	D12	94 (LHD)	P4	95 (LHD)
B9	94 (LHD)	E9	92 (LHD)	R14	95 (LHD)
C12	92 (LHD)	F16	94 (LHD)	R16	95 (LHD)
D4	94 (LHD)	F17	94 (LHD)	R20	95 (LHD)
D5	94 (LHD)	I14	93 (LHD)	T5	93 (LHD)
D6	94 (LHD)	I17	93 (LHD)	V8	95 (LHD)
D7	94 (LHD)	J3 B	93 (LHD)	V9	95 (LHD)
D8	94 (LHD)	J4 A	93 (LHD)		
D9	94 (LHD)	J5	93 (LHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3F		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5C		
5E		
5F		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
ID1	108 (LHD)	Roof Wire and Cowl Wire (Left Side of Instrument Panel)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	112 (LHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC2	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

: GROUND POINTS

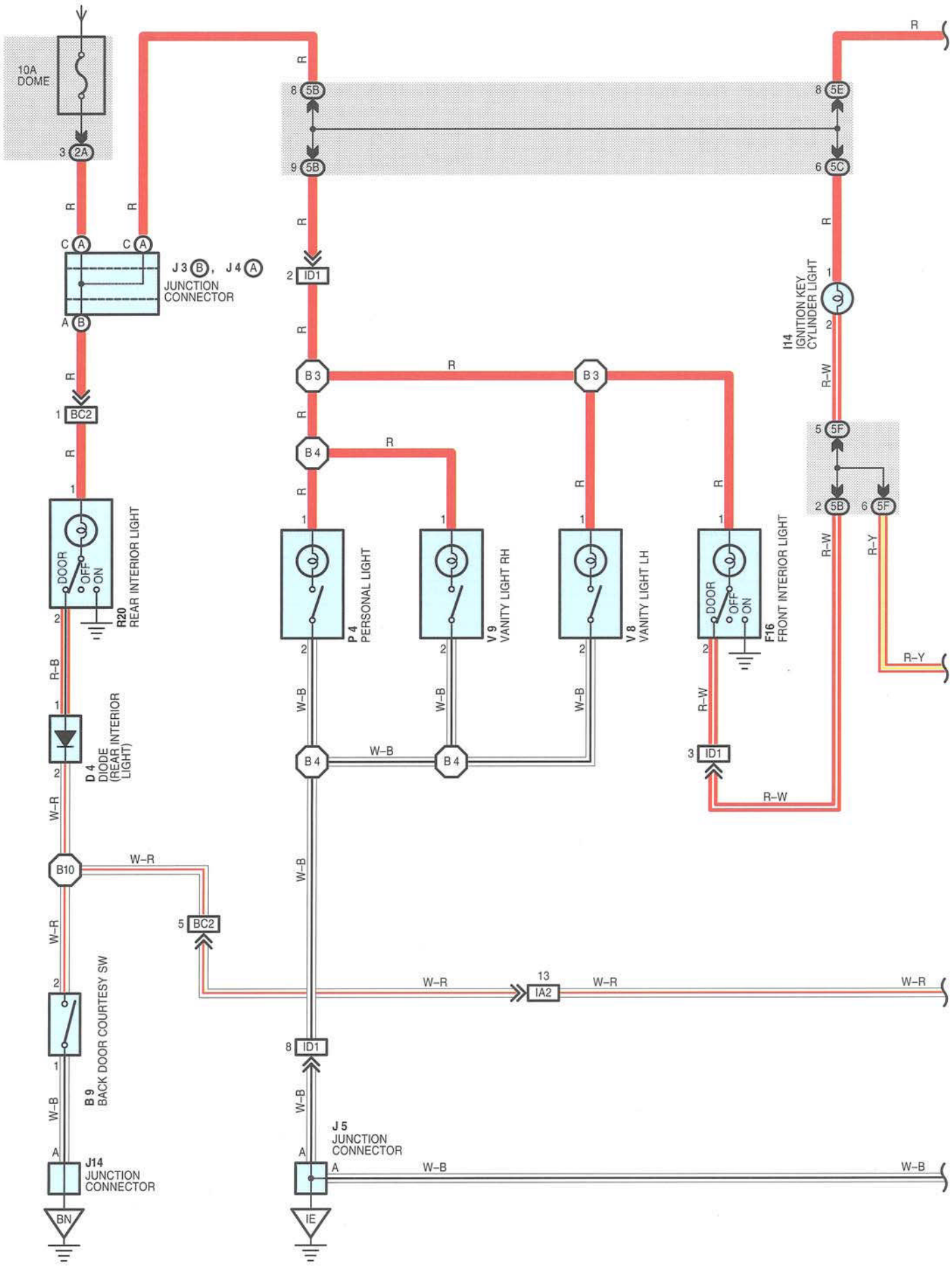
Code	See Page	Ground Points Location
IE	108 (LHD)	Cowl Side Panel LH
IG	108 (LHD)	Cowl Side Panel RH
IH	108 (LHD)	Instrument Panel Brace RH
BJ	112 (LHD)	Under the Left Center Pillar
BK	112 (LHD)	Under the Right Center Pillar
BN	112 (LHD)	Back Panel Center

: SPLICE POINTS

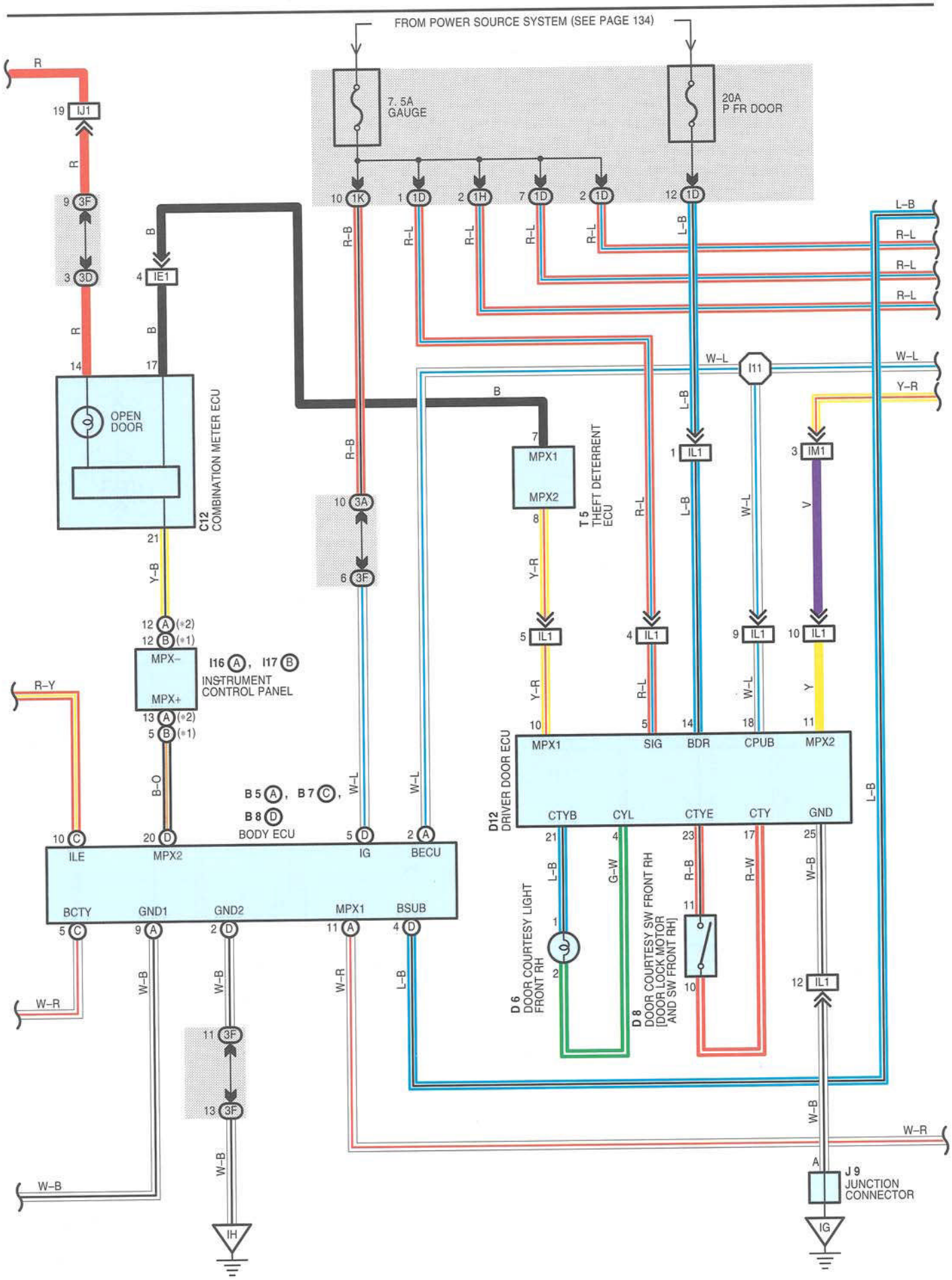
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	110 (LHD)	Cowl Wire	B4	112 (LHD)	Roof Wire
B1	112 (LHD)	Rear Door RH Wire	B10	112 (LHD)	Back Door No.1 Wire
B3	112 (LHD)	Roof Wire			

INTERIOR LIGHT (RHD)

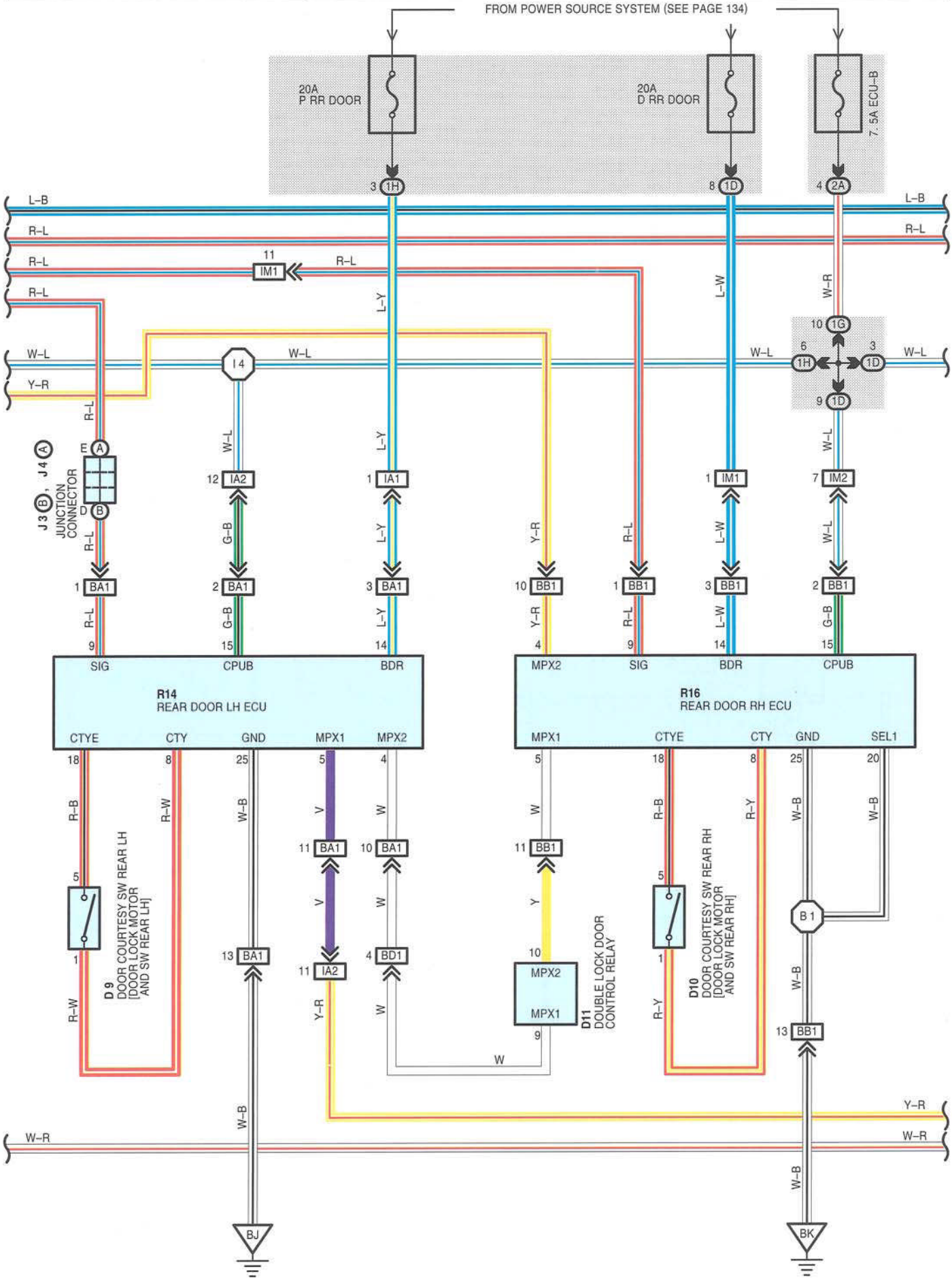
FROM POWER SOURCE SYSTEM (SEE PAGE 134)

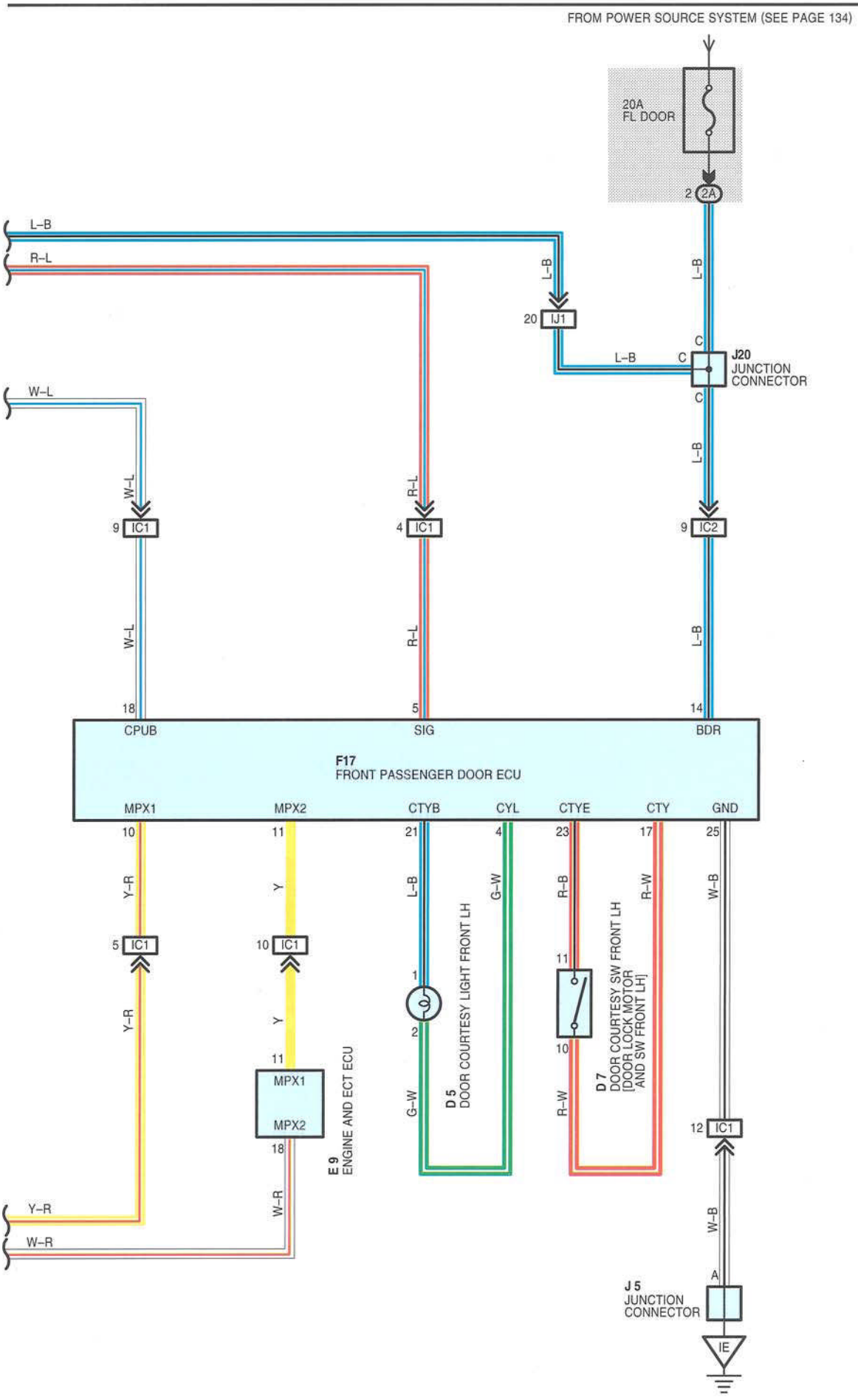


* 1 : EUROPE
* 2 : EXCEPT EUROPE



INTERIOR LIGHT (RHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
FL DOOR
2
2A
L-B
R-L
L-B
20
IJ1
L-B
C
C
J20
JUNCTION
CONNECTOR
C
L-B
W-L
W-L
9
IC1
R-L
4
IC1
9
IC2
W-L
R-L
L-B
18
5
14
CPUB
SIG
BDR
F17
FRONT PASSENGER DOOR ECU
MPX1
MPX2
CTYB
CYL
CTYE
CTY
GND
10
11
21
4
23
17
25
Y-R
Y
L-B
G-W
R-B
R-W
W-B
5
IC1
10
IC1
1
11
2
10
12
IC1
Y-R
Y
G-W
R-W
W-B
11
MPX1
MPX2
18
W-R
E 9
ENGINE AND ECT ECU
D 5
DOOR COURTESY LIGHT FRONT LH
D 7
DOOR COURTESY SW FRONT LH
[DOOR LOCK MOTOR
AND SW FRONT LH]
Y-R
W-R
A
J 5
JUNCTION
CONNECTOR
IE

INTERIOR LIGHT (RHD)

SYSTEM OUTLINE

ILLUMINATED ENTRY SYSTEM

This system provides various functions listed below through communication control of the body ECU and door ECU etc.

* Each relevant light lights up if any door is opened.
* If all the doors are closed with the ignition SW set at OFF after any door is opened, each light lights up for 15 sec., and then fades out when the time set on the timer has elapsed.
* If any door is unlocked from the driver or passenger side or if any door is unlocked with the unlock SW on the transmitter after all the doors are closed and locked, each light lights up for 15 sec., and then fades out when the time set on the timer has elapsed.
* If the ignition SW is turned to the ACC or ON position while each light is being lit by the timer, the timer lighting is cancelled and the light fades out.
* If all the doors are closed and locked from the driver or passenger side or with the lock SW on the transmitter while each light is being lit, the timer lighting is cancelled and the light fades out.
* If all the doors are closed with the ignition SW set at ACC or ON after any door is opened, the timer lighting is cancelled and the light fades out.
* Each light above is the front interior light, ignition key cylinder light.

SERVICE HINTS

D7, D8 DOOR COURTESY SW FRONT LH, RH

10–11 : Closed with the door open

D9, D10 DOOR COURTESY SW REAR LH, RH

1–5 : Closed with the door open

B9 BACK DOOR COURTESY SW

1–2 : Closed with the door open

D12 DRIVER DOOR ECU

17–23 : Continuity with the driver door open

F17 FRONT PASSENGER DOOR ECU

17–23 : Continuity with the front passenger door open

R14 REAR DOOR LH ECU

8–18 : Continuity with the rear LH door open

R16 REAR DOOR RH ECU

8–18 : Continuity with the rear RH door open

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5 A	100 (RHD)	D10	102 (RHD)	J5	101 (RHD)
B7 C	100 (RHD)	D11	102 (RHD)	J9	101 (RHD)
B8 D	100 (RHD)	D12	102 (RHD)	J14	102 (RHD)
B9	102 (RHD)	E9	100 (RHD)	J20	101 (RHD)
C12	100 (RHD)	F16	102 (RHD)	P4	103 (RHD)
D4	102 (RHD)	F17	102 (RHD)	R14	103 (RHD)
D5	102 (RHD)	I14	101 (RHD)	R16	103 (RHD)
D6	102 (RHD)	I16 A	101 (RHD)	R20	103 (RHD)
D7	102 (RHD)	I17 B	101 (RHD)	T5	101 (RHD)
D8	102 (RHD)	J3 B	101 (RHD)	V8	103 (RHD)
D9	102 (RHD)	J4 A	101 (RHD)	V9	103 (RHD)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1K	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3F		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5C		
5E		
5F		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IC1	118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
ID1	118 (RHD)	Roof Wire and Cowl Wire (Left Side of Instrument Panel)
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IJ1	120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	122 (RHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC2	122 (RHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD1	122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

: GROUND POINTS

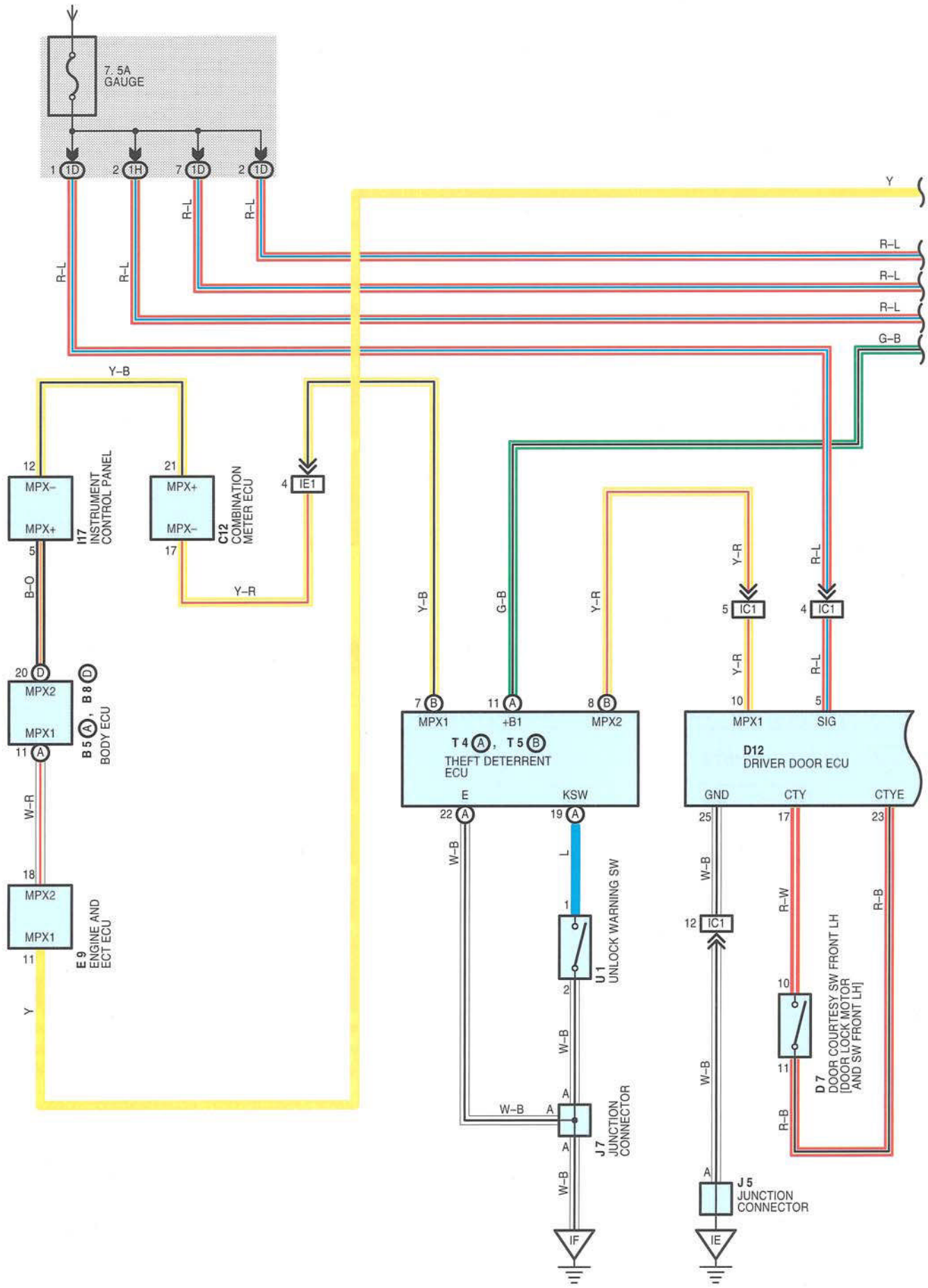
Code	See Page	Ground Points Location
IE	118 (RHD)	Cowl Side Panel LH
IG	118 (RHD)	Cowl Side Panel RH
IH	118 (RHD)	Instrument Panel Brace RH
BJ	122 (RHD)	Under the Left Center Pillar
BK	122 (RHD)	Under the Right Center Pillar
BN	122 (RHD)	Back Panel Center

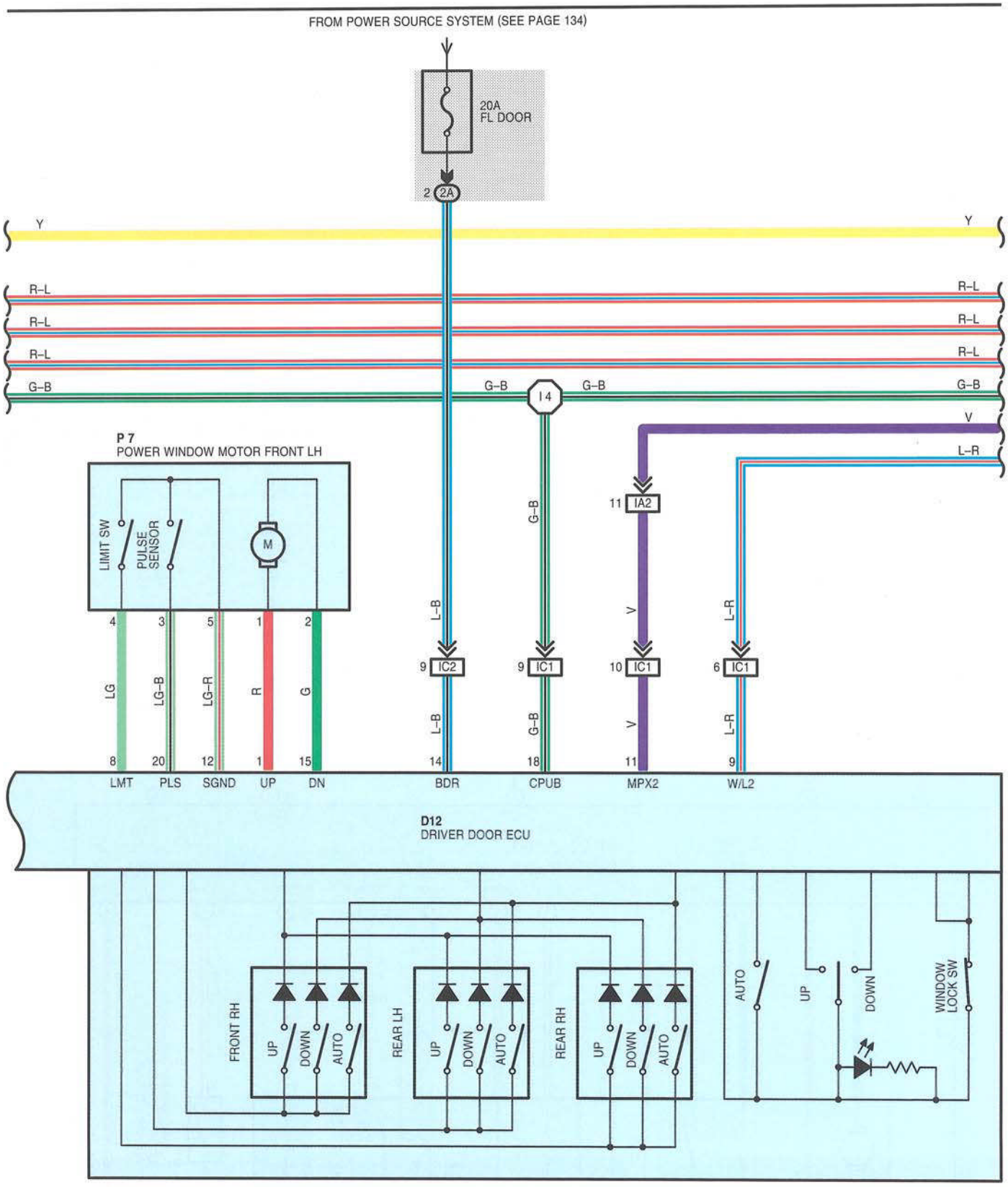
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	120 (RHD)	Cowl Wire	B3	122 (RHD)	Roof Wire
I11			B4		
B1	122 (RHD)	Rear Door RH Wire			

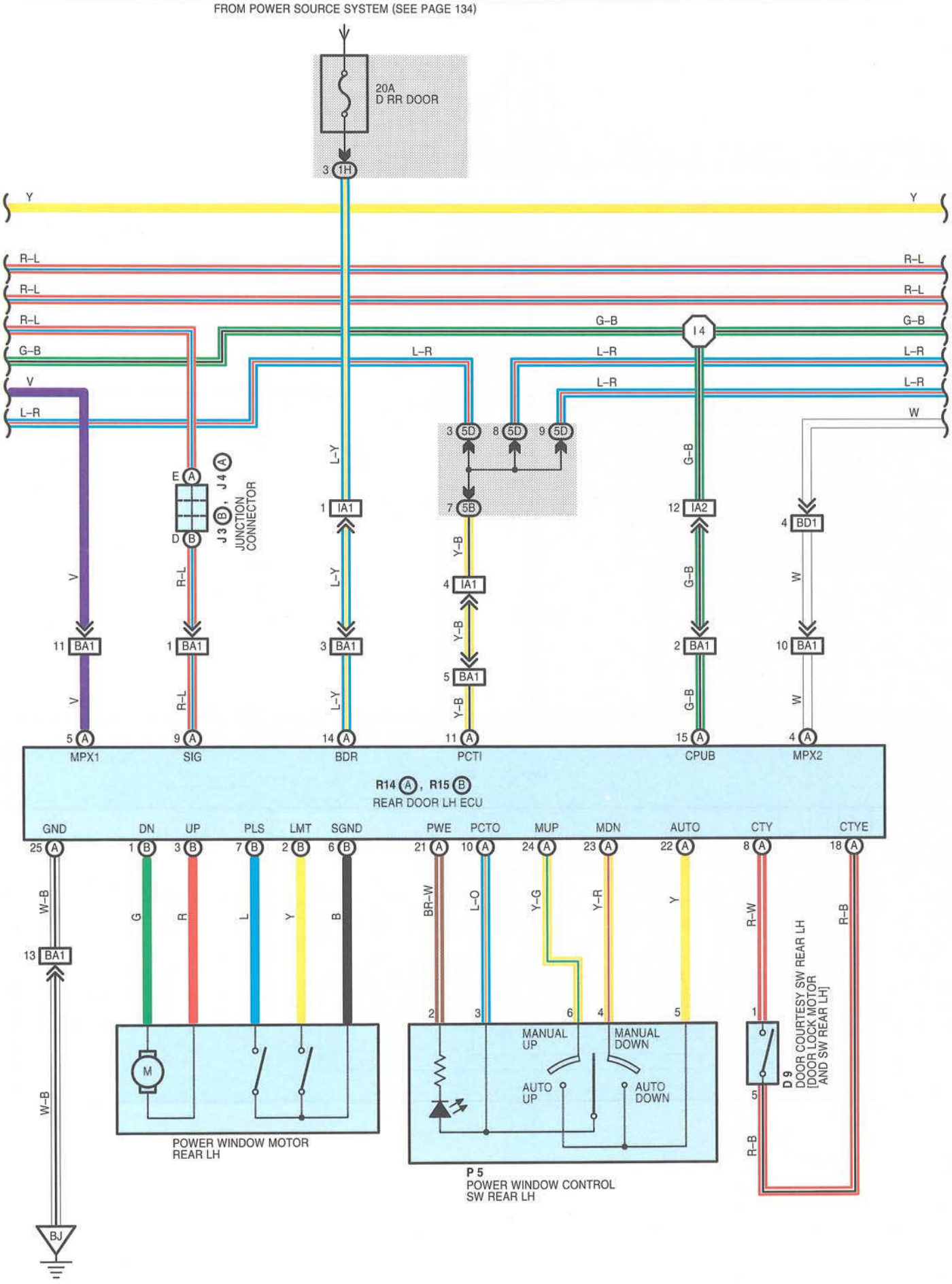
POWER WINDOW (LHD)

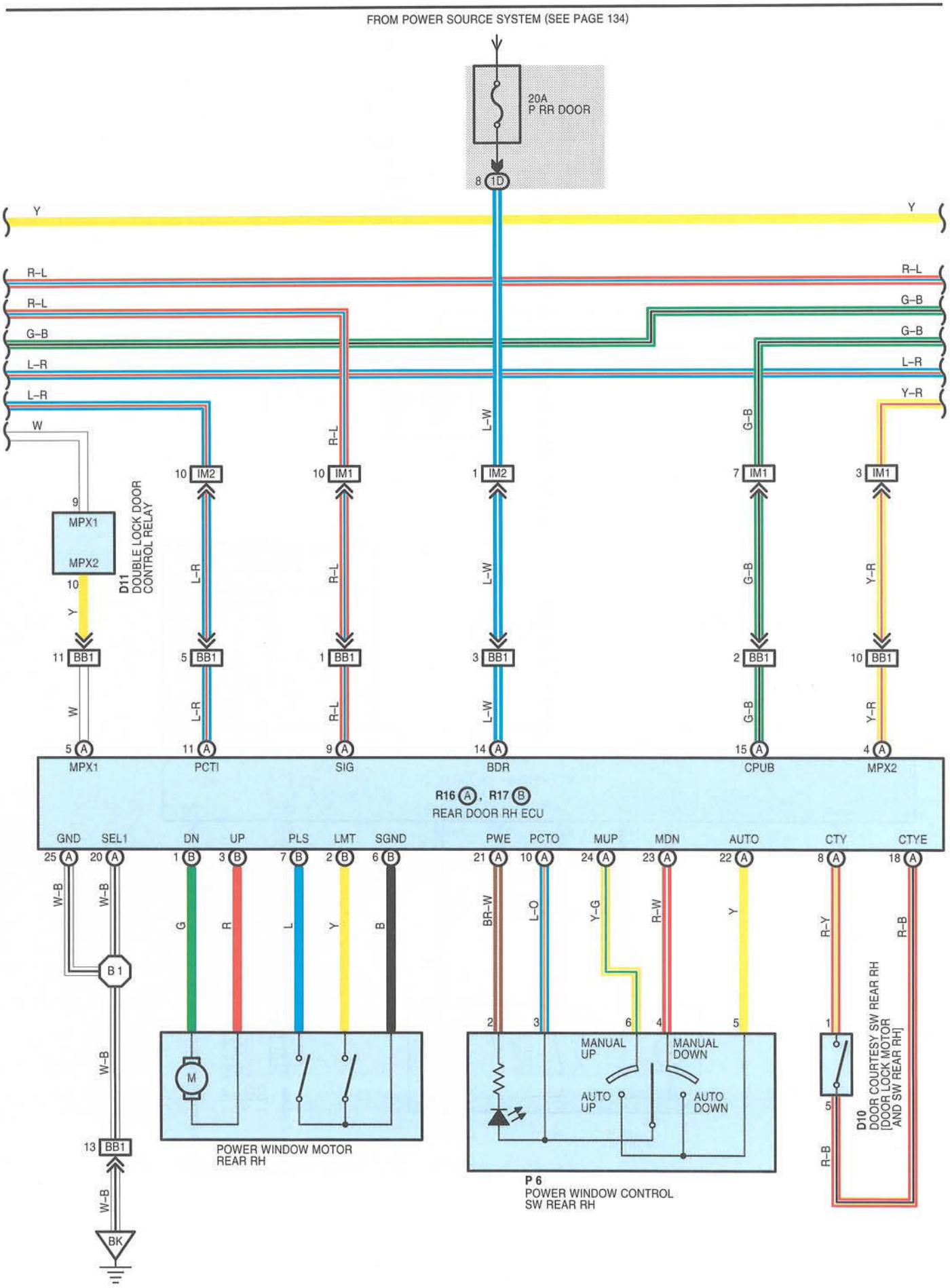
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



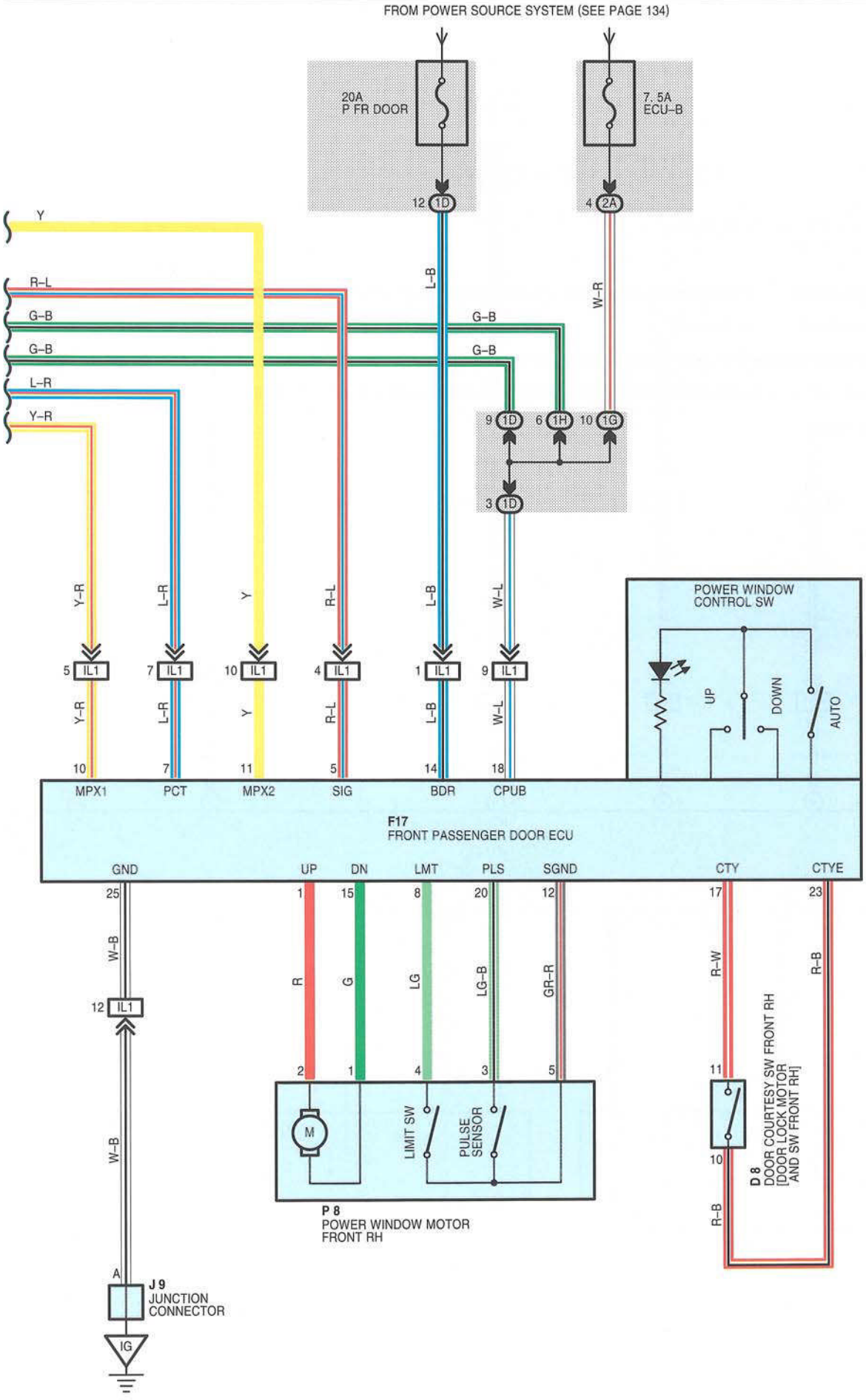

FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
FL DOOR
2
2A
Y
Y
R-L
R-L
R-L
R-L
R-L
R-L
G-B
G-B
G-B
G-B
I 4
V
L-R
P 7
POWER WINDOW MOTOR FRONT LH
LIMIT SW
PULSE SENSOR
M
11 IA2
G-B
L-B
V
L-R
9 IC2
9 IC1
10 IC1
6 IC1
4
3
5
1
2
LG
LG-B
LG-R
R
G
8
20
12
1
15
14
18
11
9
LMT
PLS
SGND
UP
DN
BDR
CPUB
MPX2
W/L2
D12
DRIVER DOOR ECU
FRONT RH
REAR LH
REAR RH
UP
DOWN
AUTO
AUTO
UP
DOWN
WINDOW LOCK SW

POWER WINDOW (LHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
P RR DOOR
8 1D
Y
R-L
R-L
G-B
L-R
L-R
W
G-B
G-B
L-R
Y-R
L-W
G-B
R-L
10 IM2
10 IM1
1 IM2
7 IM1
3 IM1
9
MPX1
MPX2
10
D11
DOUBLE LOCK DOOR
CONTROL RELAY
Y
11 BB1
5 BB1
1 BB1
3 BB1
2 BB1
10 BB1
W
L-R
R-L
L-W
G-B
Y-R
5 A
11 A
9 A
14 A
15 A
4 A
MPX1
PCTI
SIG
BDR
CPUB
MPX2
R16 A , R17 B
REAR DOOR RH ECU
GND
SEL1
DN
UP
PLS
LMT
SGND
PWE
PCTO
MUP
MDN
AUTO
CTY
CTYE
25 A
20 A
1 B
3 B
7 B
2 B
6 B
21 A
10 A
24 A
23 A
22 A
8 A
18 A
W-B
W-B
G
R
L
Y
B
BR-W
L-O
Y-G
R-W
Y
R-Y
R-B
B1
W-B
M
2
3
6
4
5
1
MANUAL
UP
MANUAL
DOWN
AUTO
UP
AUTO
DOWN
5
D10
DOOR COURTESY SW REAR RH
[DOOR LOCK MOTOR
AND SW REAR RH]
R-B
13 BB1
W-B
BK
POWER WINDOW MOTOR
REAR RH
P 6
POWER WINDOW CONTROL
SW REAR RH

POWER WINDOW (LHD)



SYSTEM OUTLINE

1. MANUAL DOWN OR UP OPERATION

When the power window master SW (Driver's) in the driver door ECU is pressed one step, the current flows from TERMINAL DN of the driver door ECU to TERMINAL 2 of the power window motor front LH to TERMINAL 1 to TERMINAL UP of the driver door ECU to TERMINAL GND to GROUND, and rotates the motor to open the window.
When the power window master SW (Driver's) in the driver door ECU is pulled one step, the current flows from TERMINAL UP of the driver door ECU to TERMINAL 1 of the power window motor front LH to TERMINAL 2 to TERMINAL DN of the driver door ECU to TERMINAL GND to GROUND, and rotates the motor to the opposite direction and closes the window.
For the other windows, as the power window master SW and power window SW is operated, the relevant door window is opened or closed.

2. AUTO DOWN OR UP OPERATION

When the power window master SW (Driver's) in the driver door ECU is pushed two steps, the ECU determines it is in auto mode and the current flows from TERMINAL DN of the driver door ECU to TERMINAL 2 of the power window motor front LH to TERMINAL 1 to TERMINAL UP of the driver door ECU to TERMINAL GND to GROUND, and rotates the motor to open the window automatically.
Accordingly, when each window switch of the front power window master SW is pressed, the relevant door window is automatically opened through communication control of the body ECU and door ECU
When the power window master SW (Driver's) in the driver door ECU is pulled two steps, the ECU determines it is in auto mode and the current flows from TERMINAL UP of the driver door ECU to TERMINAL 1 of the power window motor front LH to TERMINAL 2 to TERMINAL DN of the driver door ECU to TERMINAL GND to GROUND, and rotates the motor to close the window automatically.
Accordingly, when each window switch of the front power window master SW is pulled, the relevant door window is automatically closed through communication control of the body ECU and door ECU. Furthermore, and the power window control SW of each door is operated, the window will open/close automatically.

3. POWER WINDOW OPERATION LINKED WITH DOOR KEY LOCK AND UNLOCK SW

When the ignition key is inserted into the door key cylinder on the driver side, and is kept turned to LOCK or UNLOCK position for approximately 2.5 seconds or longer, all the door windows can be opened or closed.

* Power window close operation
  When the ignition key is inserted into the door key cylinder and is kept turned to the LOCK position for 2.5 seconds or longer, the signal from the door key lock and unlock SW is input to the driver door ECU TERMINAL KL. Through communication control of the body ECU and door ECU, the current flows from TERMINAL UP of each door ECU to power window motor to TERMINAL DN of each door ECU to TERMINAL GND to GROUND, to close all the door windows.
* Power window open operation
  When the ignition key is inserted into the door key cylinder and is kept turned to the UNLOCK position for 2.5 seconds or longer, the signal from the door key lock and unlock SW is input to to the driver door ECU TERMINAL KUL. Through communication control of the body ECU and door ECU, the current flows from TERMINAL DN of each door ECU to power window motor to TERMINAL UP of each door ECU to TERMINAL GND to GROUND, to open all the door windows.

4. CATCHING PREVENTION FUNCTION

If any foreign matter is caught in the window while it is rising, the pulse sensor installed in the power window motor detects changes in the number of motor rotations, forcibly lowers the door window 50 mm or if the door window opening amount is 200 mm or less, the window is lowered so that the opening amount is 200 mm.

5. KEY OFF MOON ROOF OPERATION

Within approximately 45 sec. after the ignition SW is turned from on to off, the power window can be operated. However, if the driver or front passenger door is opened during this period of time, the power window operation is stopped even through 45 sec. have not elapsed.

POWER WINDOW (LHD)

SERVICE HINTS

B5 (A), B8 (D) BODY ECU

(A) 8, (D) 5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(D) 4-GROUND : Always approx. **12** volts
(A) 2-GROUND : Always approx. **12** volts
(D) 2-GROUND : Always continuity
(A) 9-GROUND : Always continuity

D12 DRIVER DOOR ECU

5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
18-GROUND : Always approx. **12** volts
25-GROUND : Always continuity

F17 FRONT PASSENGER DOOR ECU

5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
18-GROUND : Always approx. **12** volts
25-GROUND : Always continuity

R14 (A) REAR DOOR LH ECU

9-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
15-GROUND : Always approx. **12** volts
25-GROUND : Always continuity

R16 (A) REAR DOOR RH ECU

9-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
15-GROUND : Always approx. **12** volts
20-GROUND : Always continuity
25-GROUND : Always continuity

P5, P6 POWER WINDOW CONTROL SW REAR LH, RH

3-6 : Closed with the power window SW at MANUAL UP operation
3-4 : Closed with the power window SW at MANUAL DOWN operation
3-6, 5 : Closed with the power window SW at AUTO UP operation
3-4, 5 : Closed with the power window SW at AUTO DOWN operation

WINDOW LOCK SW

Closed with window lock SW at **LOCK** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5 A	92 (LHD)	F17	94 (LHD)	P8	95 (LHD)
B8 D	92 (LHD)	I17	93 (LHD)	R14 A	95 (LHD)
C12	92 (LHD)	J3 B	93 (LHD)	R15 B	95 (LHD)
D7	94 (LHD)	J4 A	93 (LHD)	R16 A	95 (LHD)
D8	94 (LHD)	J5	93 (LHD)	R17 B	95 (LHD)
D9	94 (LHD)	J7	93 (LHD)	T4 A	93 (LHD)
D10	94 (LHD)	J9	93 (LHD)	T5 B	93 (LHD)
D11	94 (LHD)	P5	95 (LHD)	U1	93 (LHD)
D12	94 (LHD)	P6	95 (LHD)		
E9	92 (LHD)	P7	95 (LHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5D		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IL1	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	112 (LHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

: GROUND POINTS

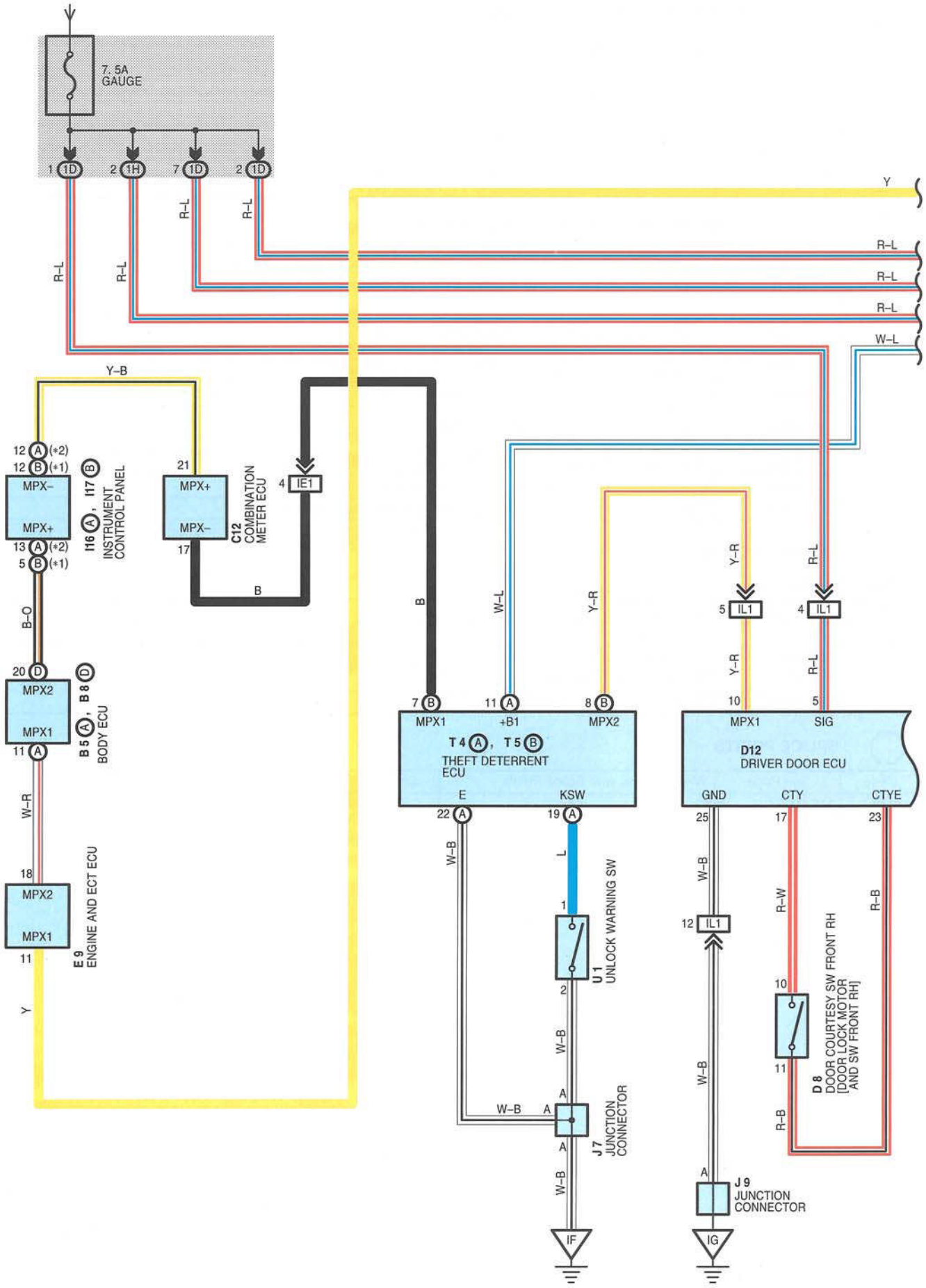
Code	See Page	Ground Points Location
IE	108 (LHD)	Cowl Side Panel LH
IF	108 (LHD)	Dash Panel Center
IG	108 (LHD)	Cowl Side Panel RH
BJ	112 (LHD)	Under the Left Center Pillar
BK	112 (LHD)	Under the Right Center Pillar

: SPLICE POINTS

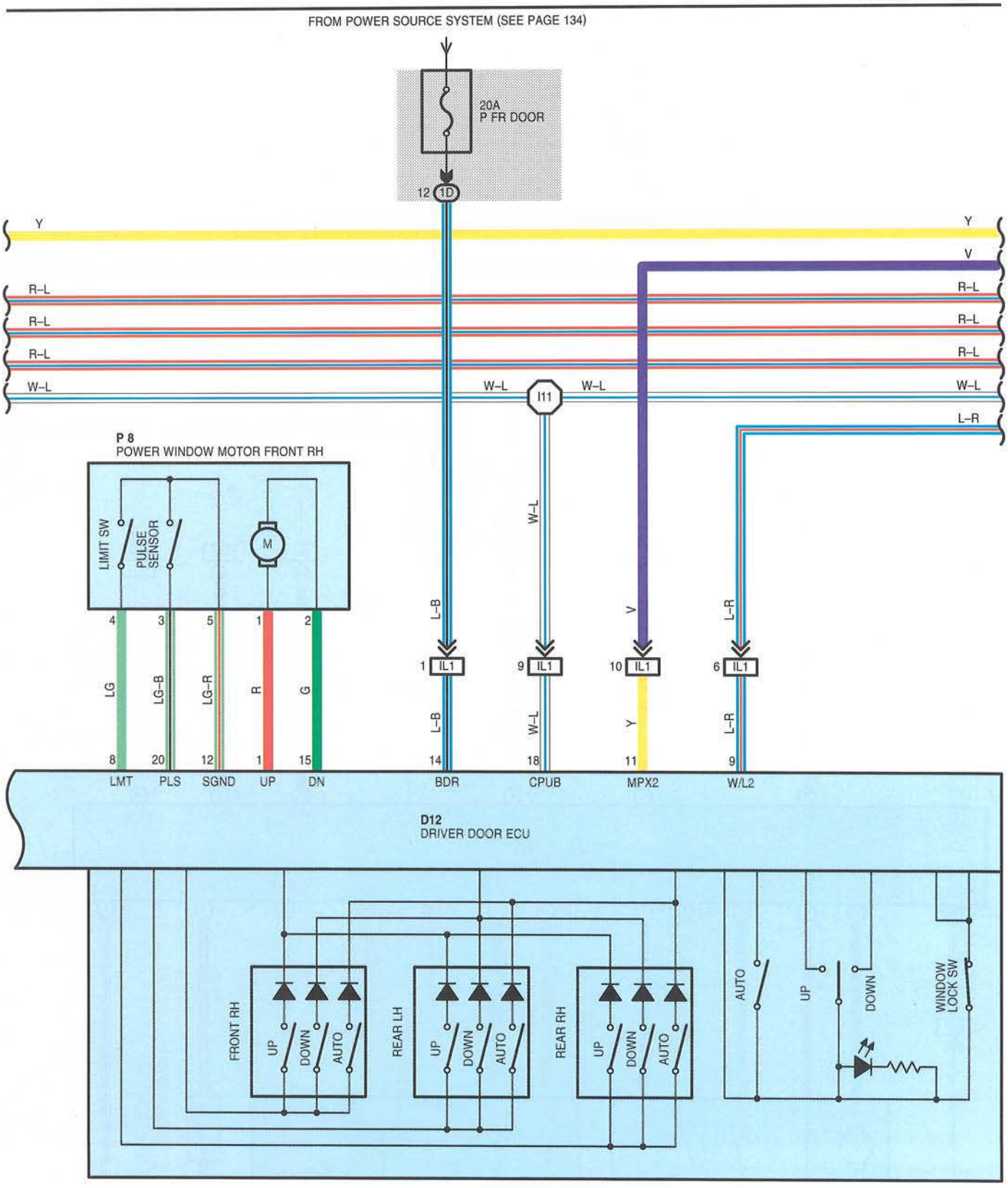
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	110 (LHD)	Cowl Wire	B1	112 (LHD)	Rear Door RH Wire

POWER WINDOW (RHD)

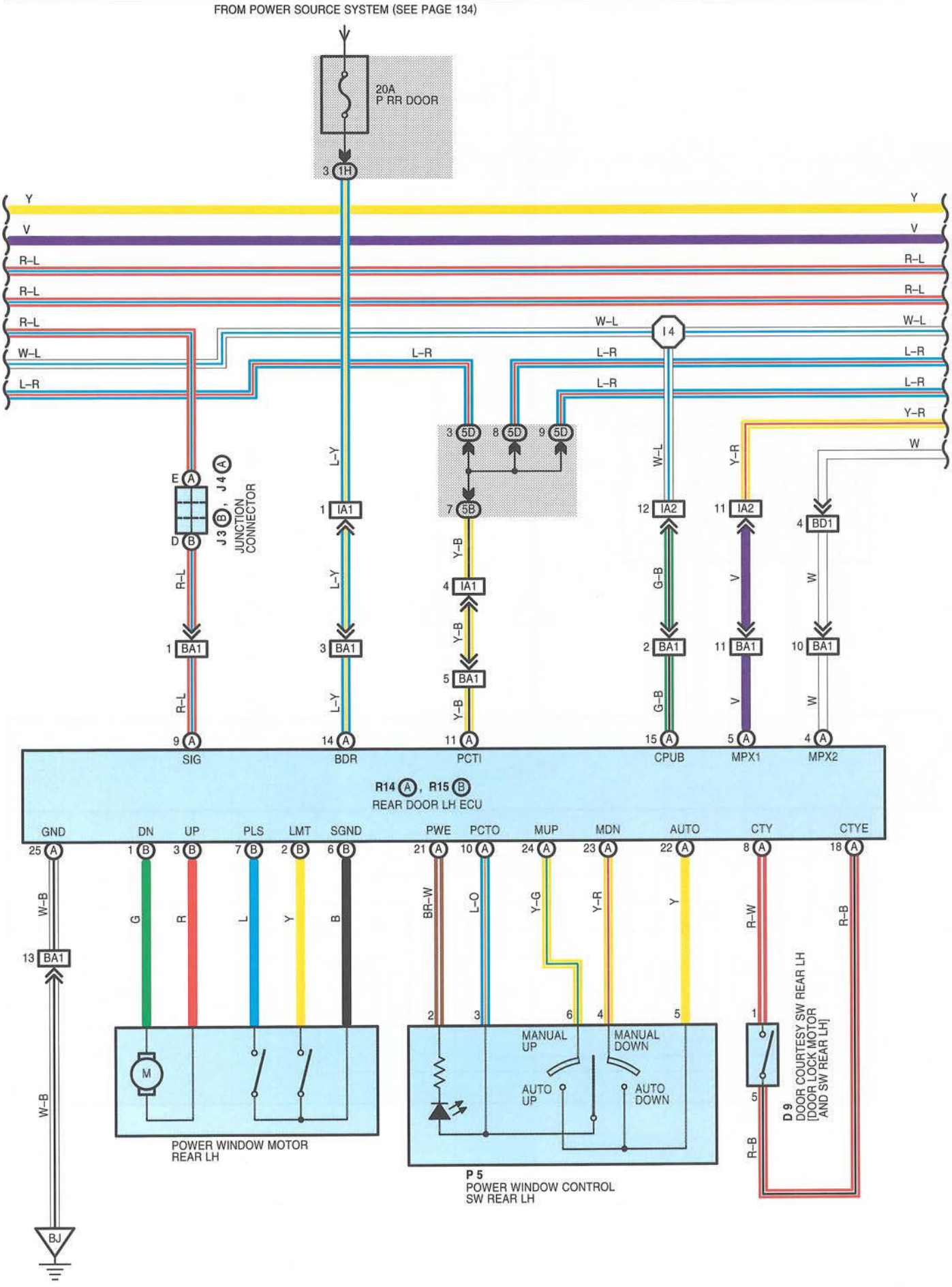
FROM POWER SOURCE SYSTEM (SEE PAGE 134)

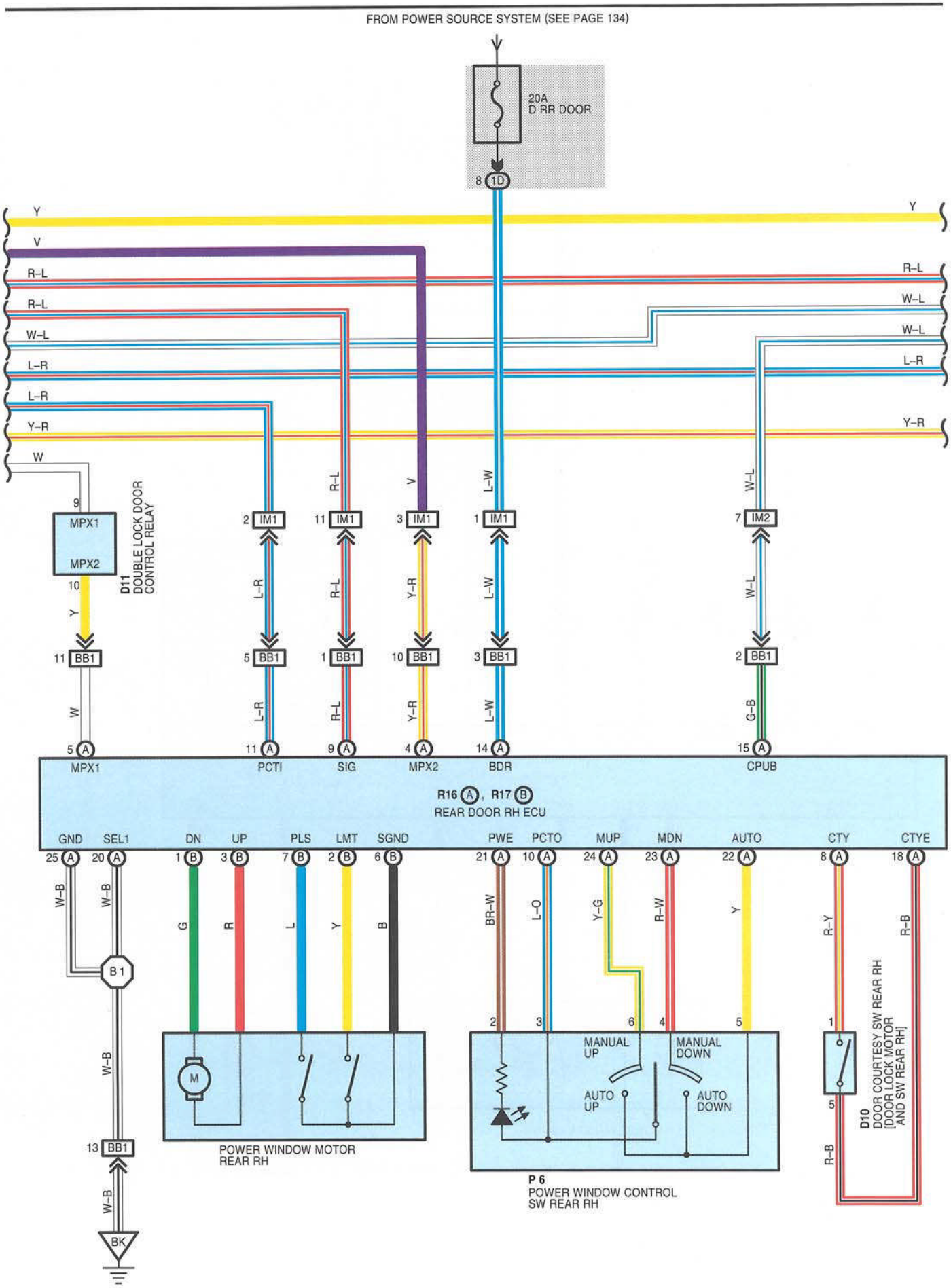


* 1 : EUROPE
* 2 : EXCEPT EUROPE

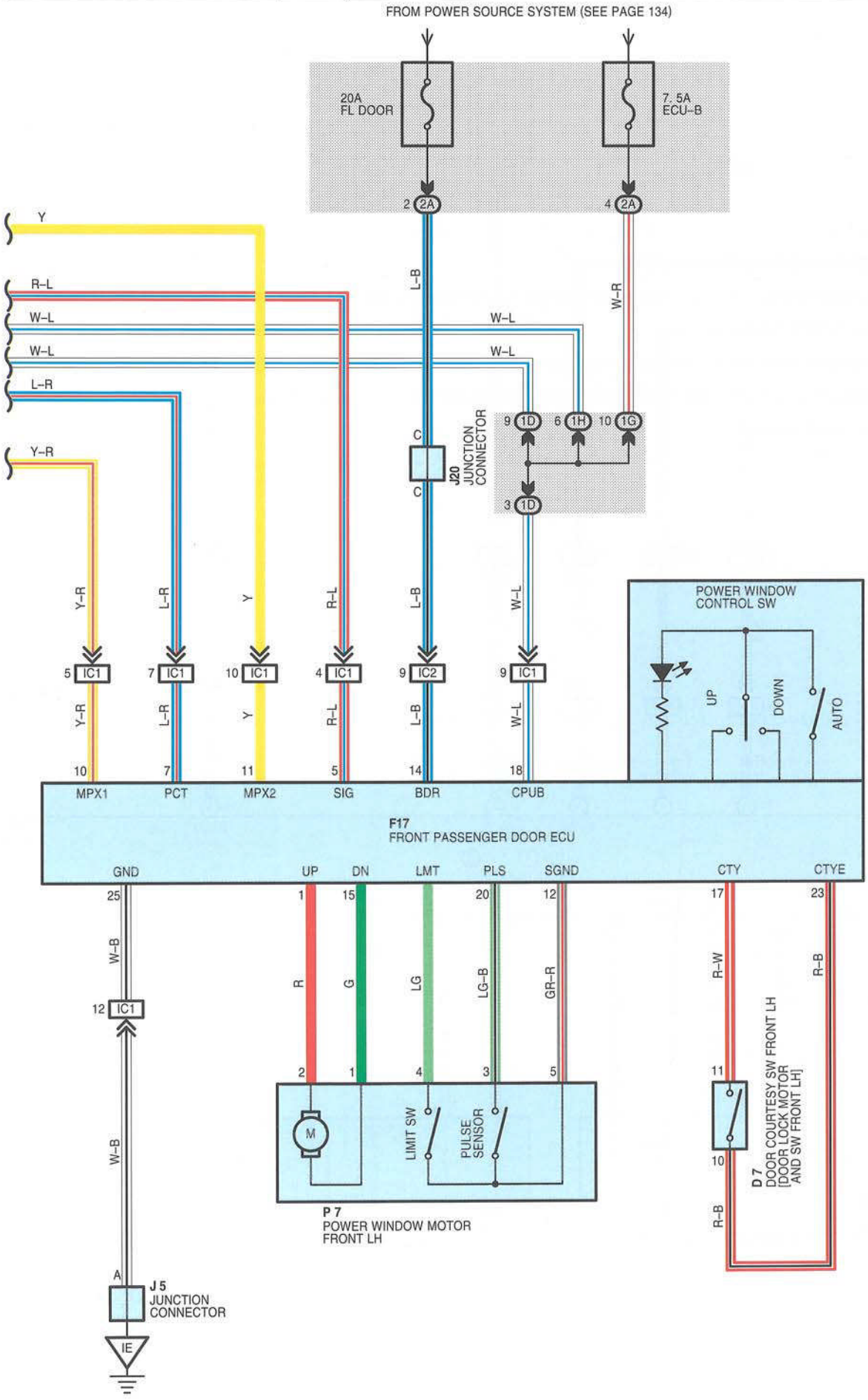


POWER WINDOW (RHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
D RR DOOR
8 1D
Y
V
R-L
R-L
W-L
L-R
L-R
Y-R
W
9
MPX1
MPX2
10
D11
DOUBLE LOCK DOOR
CONTROL RELAY
Y
11 BB1
W
5 A
MPX1
2 IM1
L-R
5 BB1
L-R
11 A
PCTI
11 IM1
R-L
1 BB1
R-L
9 A
SIG
3 IM1
V
Y-R
10 BB1
Y-R
4 A
MPX2
1 IM1
L-W
3 BB1
L-W
14 A
BDR
7 IM2
W-L
2 BB1
G-B
15 A
CPUB
R16 A , R17 B
REAR DOOR RH ECU
GND
SEL1
DN
UP
PLS
LMT
SGND
PWE
PCTO
MUP
MDN
AUTO
CTY
CTYE
25 A
20 A
1 B
3 B
7 B
2 B
6 B
21 A
10 A
24 A
23 A
22 A
8 A
18 A
W-B
W-B
G
R
L
Y
B
BR-W
L-O
Y-G
R-W
Y
R-Y
R-B
B1
W-B
13 BB1
W-B
BK
M
POWER WINDOW MOTOR
REAR RH
2
3
6
4
5
MANUAL
UP
MANUAL
DOWN
AUTO
UP
AUTO
DOWN
P 6
POWER WINDOW CONTROL
SW REAR RH
1
5
R-B
D10
DOOR COURTESY SW REAR RH
[DOOR LOCK MOTOR
AND SW REAR RH]

POWER WINDOW (RHD)



SYSTEM OUTLINE

1. MANUAL DOWN OR UP OPERATION

When the power window master SW (Driver's) in the driver door ECU is pressed one step, the current flows from TERMINAL DN of the driver door ECU to TERMINAL 2 of the power window motor front RH to TERMINAL 1 to TERMINAL UP of the driver door ECU to TERMINAL GND to GROUND, and rotates the motor to open the window.
When the power window master SW (Driver's) in the driver door ECU is pulled one step, the current flows from TERMINAL UP of the driver door ECU to TERMINAL 1 of the power window motor front RH to TERMINAL 2 to TERMINAL DN of the driver door ECU to TERMINAL GND to GROUND, and rotates the motor to the opposite direction and closes the window.
For the other windows, as the power window master SW and power window SW is operated, the relevant door window is opened or closed.

2. AUTO DOWN OR UP OPERATION

When the power window master SW (Driver's) in the driver door ECU is pushed two steps, the ECU determines it is in auto mode and the current flows from TERMINAL DN of the driver door ECU to TERMINAL 2 of the power window motor front RH to TERMINAL 1 to TERMINAL UP of the driver door ECU to TERMINAL GND to GROUND, and rotates the motor to open the window automatically.
Accordingly, when each window switch of the front power window master SW is pressed, the relevant door window is automatically opened through communication control of the body ECU and door ECU
When the power window master SW (Driver's) in the driver door ECU is pulled two steps, the ECU determines it is in auto mode and the current flows from TERMINAL UP of the driver door ECU to TERMINAL 1 of the power window motor front RH to TERMINAL 2 to TERMINAL DN of the driver door ECU to TERMINAL GND to GROUND, and rotates the motor to close the window automatically.
Accordingly, when each window switch of the power window master SW is pulled, the relevant door window is automatically closed through communication control of the body ECU and door ECU. Furthermore, and the power window control SW of each door is operated, the window will open/close automatically.

3. POWER WINDOW OPERATION LINKED WITH DOOR KEY LOCK AND UNLOCK SW

When the ignition key is inserted into the door key cylinder on the driver side, and is kept turned to LOCK or UNLOCK position for approximately 2.5 seconds or longer, all the door windows can be opened or closed.

* Power window close operation
  When the ignition key is inserted into the door key cylinder and is kept turned to the LOCK position for 2.5 seconds or longer, the signal from the door key lock and unlock SW is input to the driver door ECU TERMINAL KL. Through communication control of the body ECU and door ECU, the current flows from TERMINAL UP of each door ECU to power window motor to TERMINAL DN of each door ECU to TERMINAL GND to GROUND, to close all the door windows.
* Power window open operation
  When the ignition key is inserted into the door key cylinder and is kept turned to the UNLOCK position for 2.5 seconds or longer, the signal from the door key lock and unlock SW is input to to the driver door ECU TERMINAL KUL. Through communication control of the body ECU and door ECU, the current flows from TERMINAL DN of each door ECU to power window motor to TERMINAL UP of each door ECU to TERMINAL GND to GROUND, to open all the door windows.

4. CATCHING PREVENTION FUNCTION

If any foreign matter is caught in the window while it is rising, the pulse sensor installed in the power window motor detects changes in the number of motor rotations, forcibly lowers the door window 50 mm or if the door window opening amount is 200 mm or less, the window is lowered so that the opening amount is 200 mm.

5. KEY OFF MOON ROOF OPERATION

Within approximately 45 sec. after the ignition SW is turned from on to off, the power window can be operated. However, if the driver or front passenger door is opened during this period of time, the power window operation is stopped even through 45 sec. have not elapsed.

POWER WINDOW (RHD)

SERVICE HINTS

B5 (A), B8 (D) BODY ECU

(A) 8, (D) 5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(D) 4-GROUND : Always approx. **12** volts
(A) 2-GROUND : Always approx. **12** volts
(D) 2-GROUND : Always continuity
(A) 9-GROUND : Always continuity

D12 DRIVER DOOR ECU

5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
18-GROUND : Always approx. **12** volts
25-GROUND : Always continuity

F17 FRONT PASSENGER DOOR ECU

5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
18-GROUND : Always approx. **12** volts
25-GROUND : Always continuity

R14 (A) REAR DOOR LH ECU

9-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
15-GROUND : Always approx. **12** volts
25-GROUND : Always continuity

R16 (A) REAR DOOR RH ECU

9-GROUND : Approx. **12** volts with the ignition SW at **ON** position
14-GROUND : Always approx. **12** volts
15-GROUND : Always approx. **12** volts
20-GROUND : Always continuity
25-GROUND : Always continuity

P5, P6 POWER WINDOW CONTROL SW REAR LH, RH

3-6 : Closed with the power window SW at MANUAL UP operation
3-4 : Closed with the power window SW at MANUAL DOWN operation
3-6, 5 : Closed with the power window SW at AUTO UP operation
3-4, 5 : Closed with the power window SW at AUTO DOWN operation

WINDOW LOCK SW

Closed with window lock SW at **LOCK** position

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B5	A	100 (RHD)	F17		102 (RHD)	P6		103 (RHD)
B8	D	100 (RHD)	I16	A	101 (RHD)	P7		103 (RHD)
C12		100 (RHD)	I17	B	101 (RHD)	P8		103 (RHD)
D7		102 (RHD)	J3	B	101 (RHD)	R14	A	103 (RHD)
D8		102 (RHD)	J4	A	101 (RHD)	R15	B	103 (RHD)
D9		102 (RHD)	J5		101 (RHD)	R16	A	103 (RHD)
D10		102 (RHD)	J7		101 (RHD)	R17	B	103 (RHD)
D11		102 (RHD)	J9		101 (RHD)	T4	A	101 (RHD)
D12		102 (RHD)	J20		101 (RHD)	T5	B	101 (RHD)
E9		100 (RHD)	P5		103 (RHD)	U1		101 (RHD)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5D		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IC1	118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	122 (RHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BD1	122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

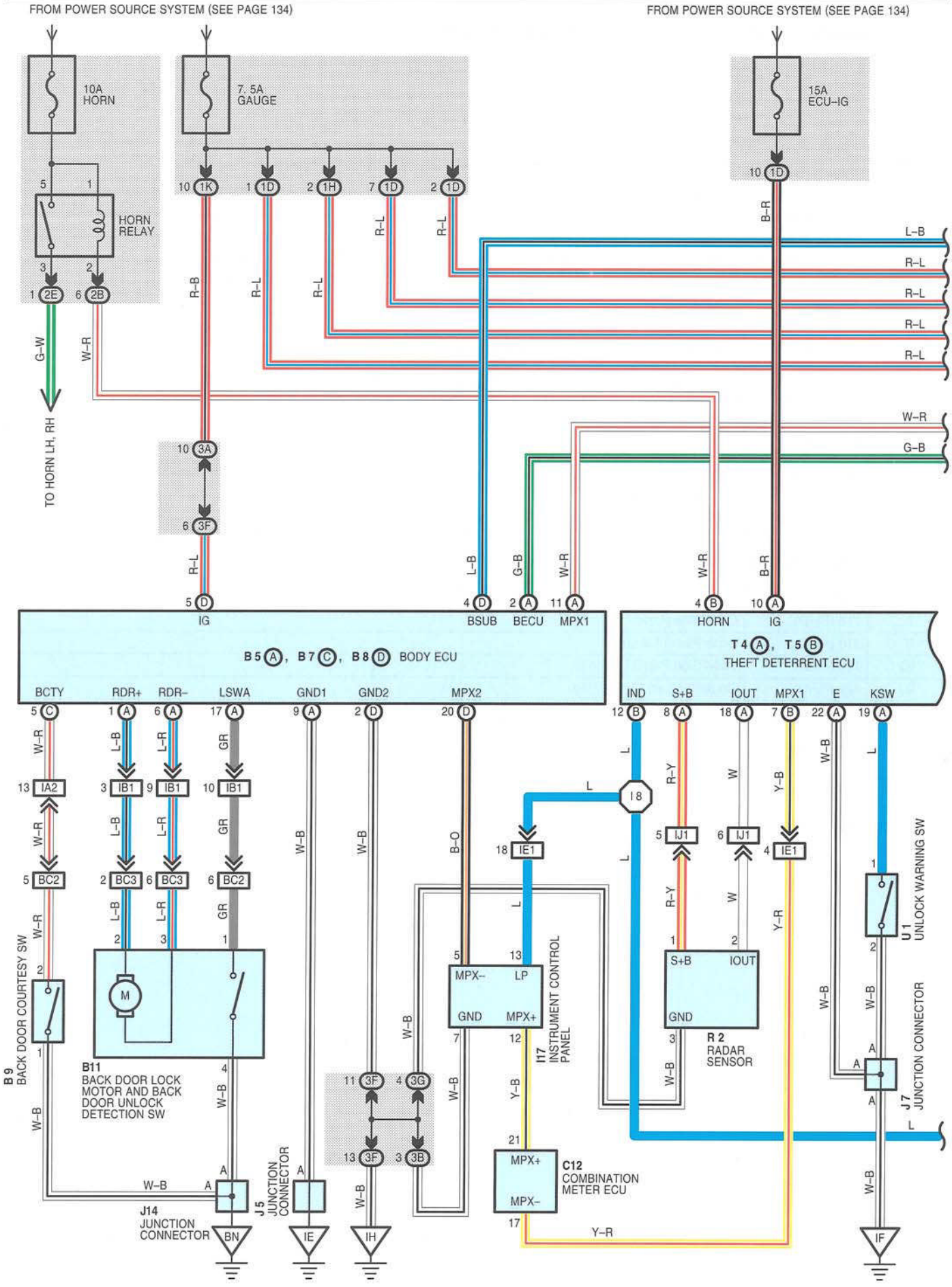
: GROUND POINTS

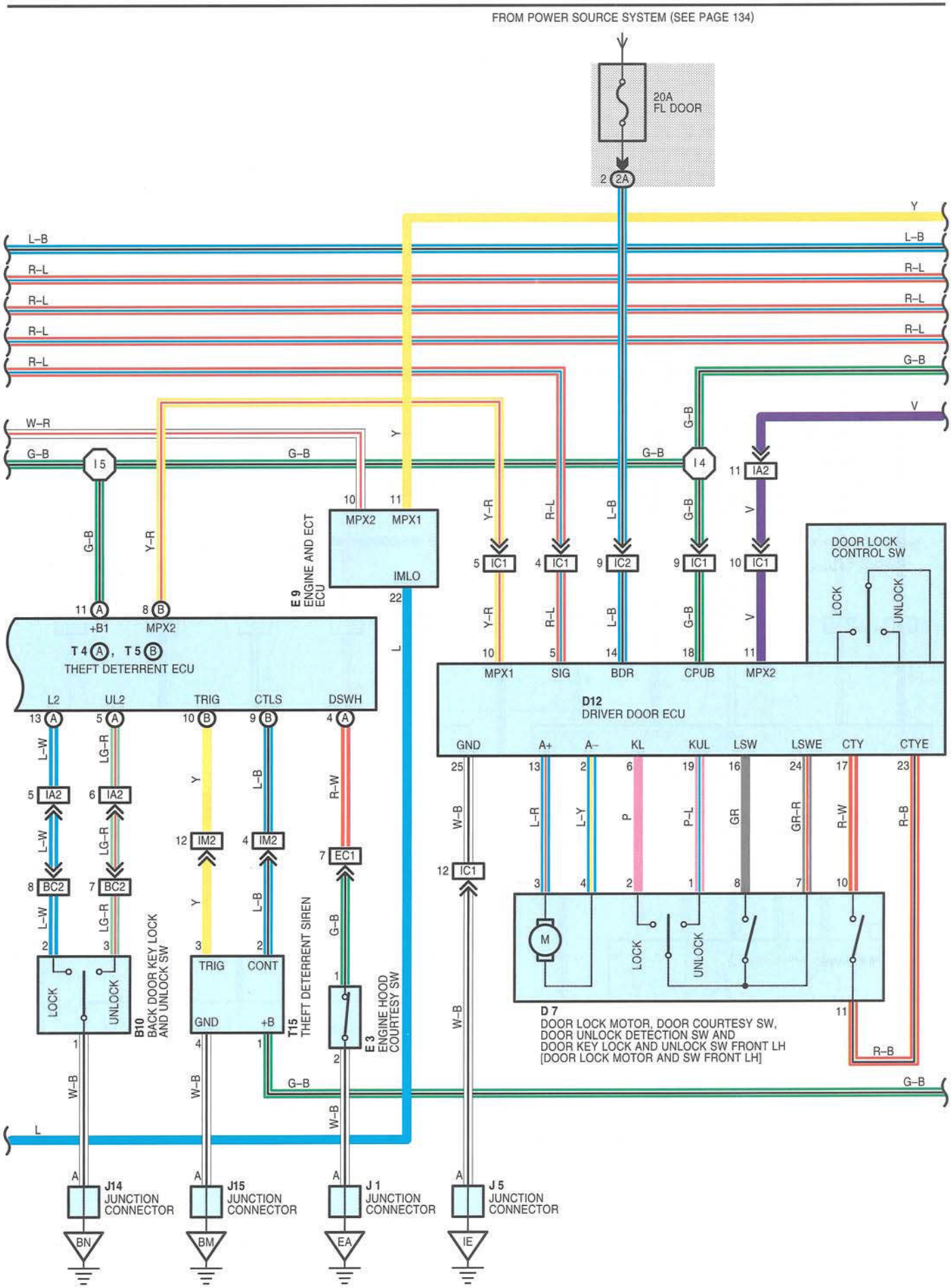
Code	See Page	Ground Points Location
IE	118 (RHD)	Cowl Side Panel LH
IF	118 (RHD)	Dash Panel Center
IG	118 (RHD)	Cowl Side Panel RH
BJ	122 (RHD)	Under the Left Center Pillar
BK	122 (RHD)	Under the Right Center Pillar

: SPLICE POINTS

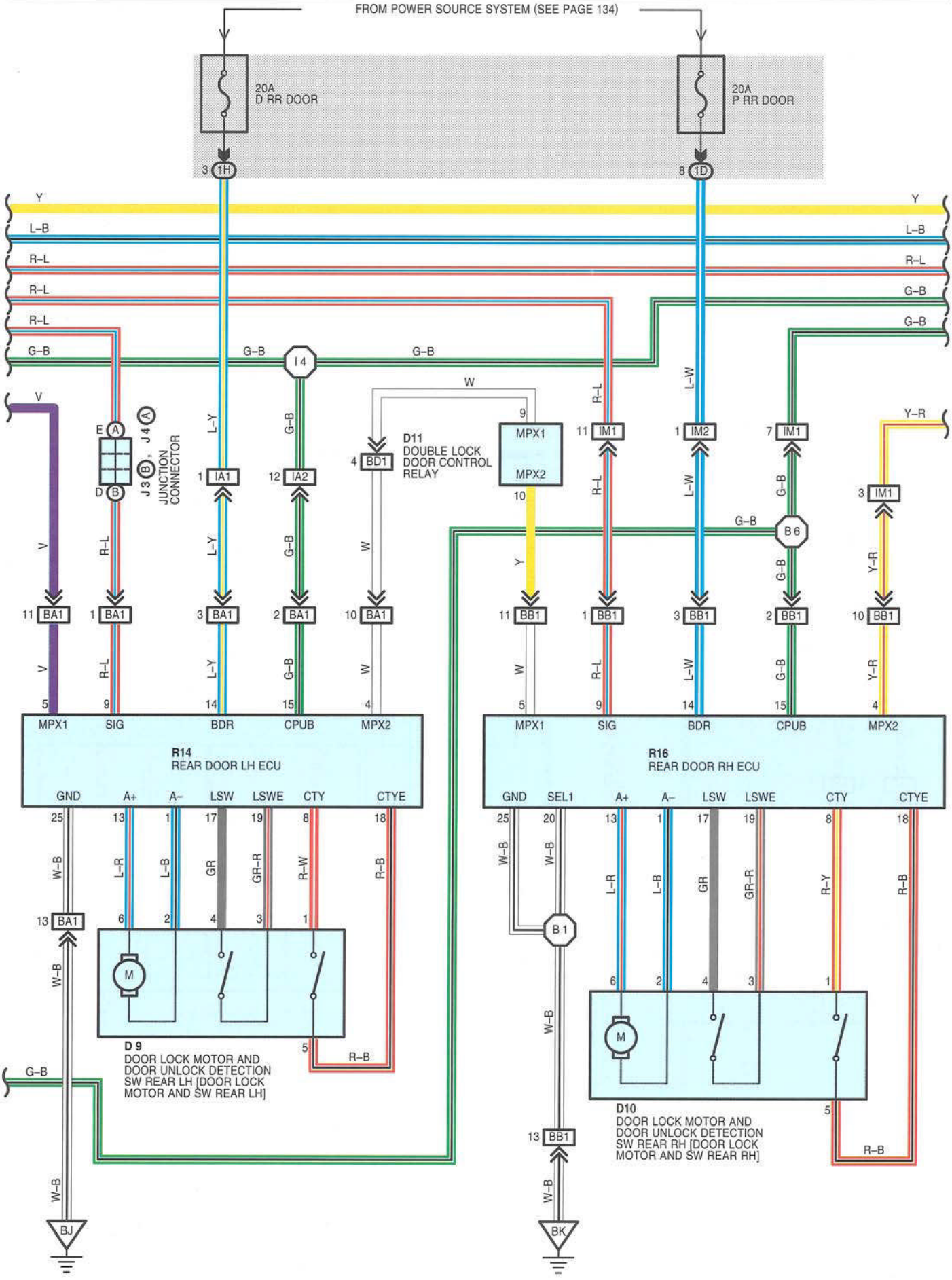
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	120 (RHD)	Cowl Wire	B1	122 (RHD)	Rear Door RH Wire
I11					

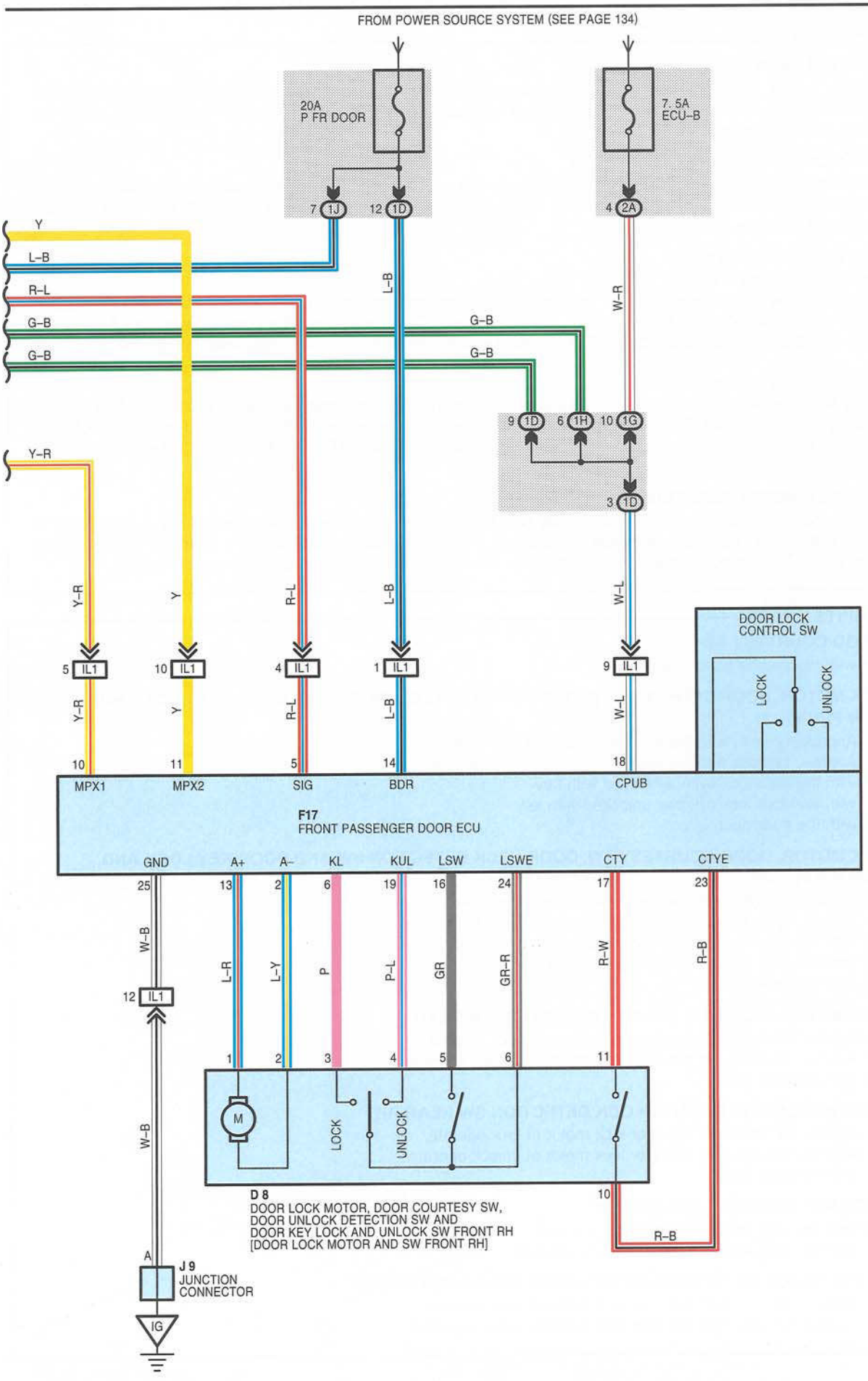
THEFT DETERRENT AND DOOR LOCK CONTROL (LHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
FL DOOR
2A
L-B
R-L
R-L
R-L
R-L
R-L
Y
L-B
R-L
R-L
R-L
G-B
W-R
G-B
I5
G-B
G-B
Y
G-B
G-B
I4
V
11 IA2
G-B
Y-R
10
11
MPX2
MPX1
IMLO
E9
ENGINE AND ECT
ECU
22
Y-R
R-L
L-B
G-B
V
5 IC1
4 IC1
9 IC2
9 IC1
10 IC1
DOOR LOCK
CONTROL SW
LOCK
UNLOCK
11 A
8 B
+B1
MPX2
T4 A, T5 B
THEFT DETERRENT ECU
L
10
5
14
18
11
MPX1
SIG
BDR
CPUB
MPX2
D12
DRIVER DOOR ECU
L2
UL2
TRIG
CTLS
DSWH
GND
A+
A-
KL
KUL
LSW
LSWE
CTY
CTYE
13 A
5 A
10 B
9 B
4 A
25
13
2
6
19
16
24
17
23
L-W
LG-R
Y
L-B
R-W
W-B
L-R
L-Y
P
P-L
GR
GR-R
R-W
R-B
5 IA2
6 IA2
12 IM2
4 IM2
7 EC1
12 IC1
8 BC2
7 BC2
3
4
2
1
8
7
10
M
LOCK
UNLOCK
LOCK
UNLOCK
B10
BACK DOOR KEY LOCK
AND UNLOCK SW
TRIG
CONT
GND
+B
T15
THEFT DETERRENT SIREN
E3
ENGINE HOOD
COURTESY SW
D7
DOOR LOCK MOTOR, DOOR COURTESY SW,
DOOR UNLOCK DETECTION SW AND
DOOR KEY LOCK AND UNLOCK SW FRONT LH
[DOOR LOCK MOTOR AND SW FRONT LH]
11
R-B
G-B
W-B
L
A
J14
JUNCTION
CONNECTOR
J15
JUNCTION
CONNECTOR
J1
JUNCTION
CONNECTOR
J5
JUNCTION
CONNECTOR
BN
BM
EA
IE

THEFT DETERRENT AND DOOR LOCK CONTROL (LHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
P FR DOOR
7. 5A
ECU-B
7 1J
12 1D
4 2A
Y
L-B
R-L
G-B
G-B
L-B
W-R
G-B
G-B
9 1D
6 1H
10 1G
3 1D
Y-R
Y
R-L
L-B
W-L
DOOR LOCK
CONTROL SW
LOCK
UNLOCK
5 IL1
10 IL1
4 IL1
1 IL1
9 IL1
Y-R
Y
R-L
L-B
W-L
10
11
5
14
18
MPX1
MPX2
SIG
BDR
CPUB
F17
FRONT PASSENGER DOOR ECU
GND
A+
A-
KL
KUL
LSW
LSWE
CTY
CTYE
25
13
2
6
19
16
24
17
23
W-B
L-R
L-Y
P
P-L
GR
GR-R
R-W
R-B
12 IL1
1
2
3
4
5
6
11
M
LOCK
UNLOCK
D 8
DOOR LOCK MOTOR, DOOR COURTESY SW,
DOOR UNLOCK DETECTION SW AND
DOOR KEY LOCK AND UNLOCK SW FRONT RH
[DOOR LOCK MOTOR AND SW FRONT RH]
10
R-B
W-B
A
J 9
JUNCTION
CONNECTOR
IG

THEFT DETERRENT AND DOOR LOCK CONTROL (LHD)

SYSTEM OUTLINE

1. MANUAL UNLOCK OPERATION

When the door lock control SW of the driver or front passenger side to pressed to unlock side , through communication control of the door ECU, the current flows from TERMINAL A– of the door ECU to door lock motor to TERMINAL A+ of the door ECU to GROUND, and unlocks the door.

2. MANUAL LOCK OPERATION

When the door lock control SW of the driver or front passenger side to pressed to lock side, through communication control of the door ECU, the current flows from TERMINAL A+ of the door ECU to door lock motor to TERMINAL A– of the door ECU to GROUND, and locks the door,

3. DOOR KEY UNLOCK OPERATION

* Unlock operation from the driver door
  When unlocking from the driver door with the ignition key, a signal from the door key lock and unlock SW is input to TERMINAL KUL of the driver door ECU. As a result, the driver door ECU operates and the current flows from TERMINAL A– of the driver door ECU to door lock motor to TERMINAL A+ of the door ECU to GROUND, and unlocks the driver side door only.
* Unlock operation from the passenger door
  When unlocking from the passenger door with the ignition key, a signal from the door key lock and unlock SW is input to TERMINAL KUL of the driver door ECU. As a result, through communication control of the body ECU and door ECU, the current flows from TERMINAL A– of the door ECU to door lock motor to TERMINAL A+ of the door ECU to GROUND, and unlocks all the doors at once.

4. IGNITION KEY REMINDER OPERATION

When the door lock operation is made using the door knob with the ignition key remained inserted in the key cylinder and the door open, unlock operation is automatically made. Additionally, if lock operation is made with the door lock control SW or door key lock and unlock SW, unlock operation is automatically made after the lock operation has been completed.

SERVICE HINTS

E3 ENGINE HOOD COURTESY SW

1–2 : Closed with the engine hood open

D7 DOOR LOCK MOTOR, DOOR COURTESY SW, DOOR LOCK DETECTION SW AND DOOR KEY LOCK AND UNLOCK SW FRONT LH

3–GROUND : Approx. **12** volts with the door lock motor at lock operate
4–GROUND : Approx. **12** volts with the door lock motor at unlock operate
2–7 : Closed with the door lock cylinder locked with key
1–7 : Closed with the door lock cylinder unlocked with key
10–11 : Closed with the door open

D8 DOOR LOCK MOTOR, DOOR COURTESY SW, DOOR LOCK DETECTION SW AND DOOR KEY LOCK AND UNLOCK SW FRONT RH

1–GROUND : Approx. **12** volts with the door lock motor at lock operate
2–GROUND : Approx. **12** volts with the door lock motor at unlock operate
3–6 : Closed with the door lock cylinder locked with key
4–6 : Closed with the door lock cylinder unlocked with key
10–11 : Closed with the door open

D9 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR LH

6–GROUND : Approx. **12** volts with the door lock motor at lock operate
2–GROUND : Approx. **12** volts with the door lock motor at unlock operate
1–5 : Closed with the door open

D10 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR RH

6–GROUND : Approx. **12** volts with the door lock motor at lock operate
2–GROUND : Approx. **12** volts with the door lock motor at unlock operate
1–5 : Closed with the door open

B10 BACK DOOR KEY LOCK AND UNLOCK SW

2–1 : Closed with the door lock cylinder locked with key
3–1 : Closed with the door lock cylinder unlocked with key

B11 BACK DOOR UNLOCK DETECTION SW AND BACK DOOR LOCK MOTOR

2–GROUND : Approx. **12** volts with the door lock motor at lock operate
3–GROUND : Approx. **12** volts with the door lock motor at unlock operate

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5 A	92 (LHD)	D11	94 (LHD)	J9	93 (LHD)
B7 C	92 (LHD)	D12	94 (LHD)	J14	94 (LHD)
B8 D	92 (LHD)	E3	90 (LHD)	J15	94 (LHD)
B9	94 (LHD)	E9	92 (LHD)	R2	93 (LHD)
B10	94 (LHD)	F17	94 (LHD)	R14	95 (LHD)
B11	94 (LHD)	I17	93 (LHD)	R16	95 (LHD)
C12	92 (LHD)	J1	91 (LHD)	T4 A	93 (LHD)
D7	94 (LHD)	J3 B	93 (LHD)	T5 B	93 (LHD)
D8	94 (LHD)	J4 A	93 (LHD)	T15	95 (LHD)
D9	94 (LHD)	J5	93 (LHD)	U1	93 (LHD)
D10	94 (LHD)	J7	93 (LHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D 1G 1H	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J 1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A 2B	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2E	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A 3B 3F 3G	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	106 (LHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IA1 IA2	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IB1	108 (LHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
IC1 IC2	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1 IM2	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
BA1	112 (LHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC2 BC3	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

THEFT DETERRENT AND DOOR LOCK CONTROL (LHD)

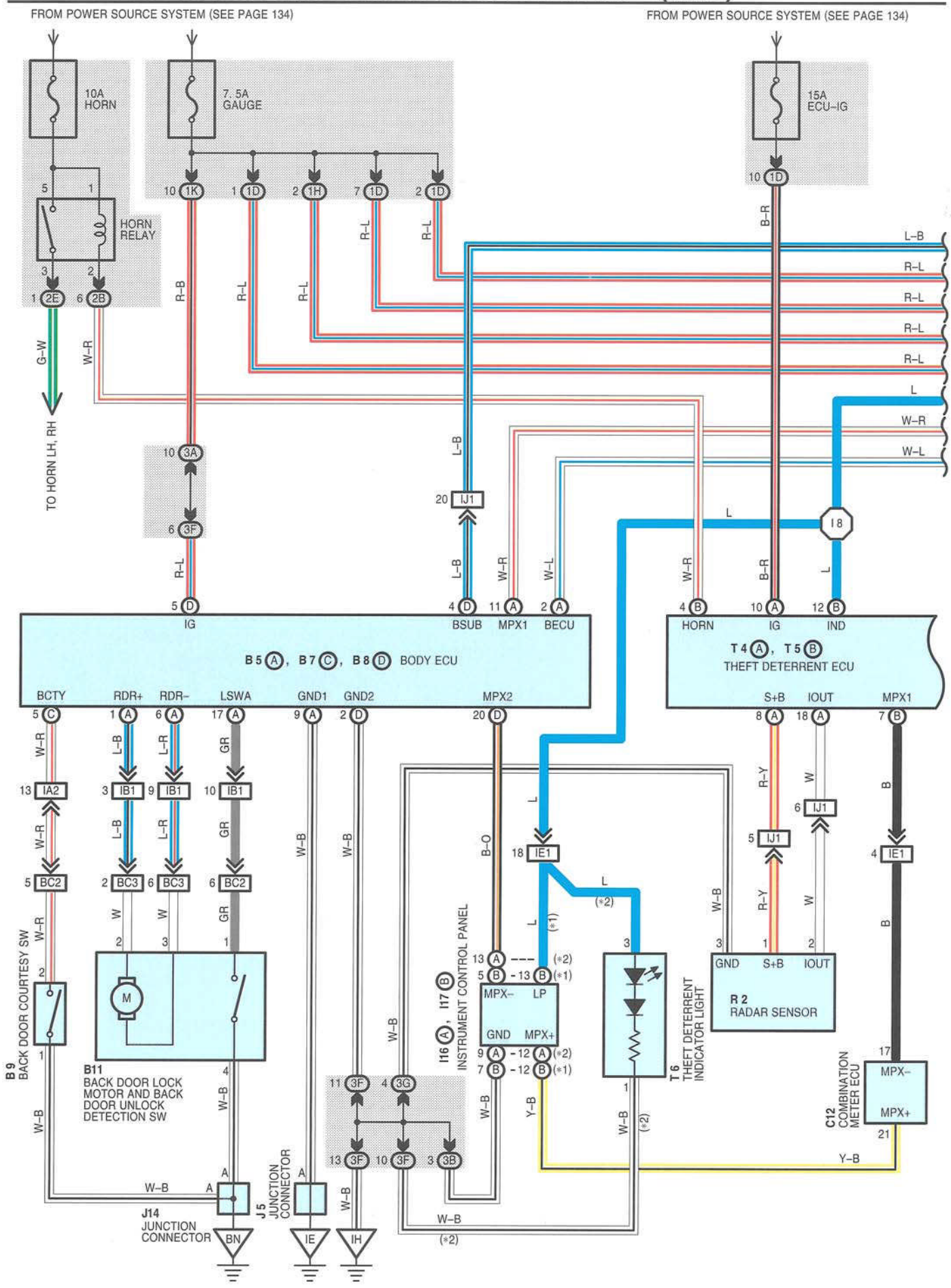
 **: GROUND POINTS**

Code	See Page	Ground Points Location
EA	106 (LHD)	Engine Compartment Right
IE	108 (LHD)	Cowl Side Panel LH
IF	108 (LHD)	Dash Panel Center
IG	108 (LHD)	Cowl Side Panel RH
IH	108 (LHD)	Instrument Panel Brace RH
BJ	112 (LHD)	Under the Left Center Pillar
BK	112 (LHD)	Under the Right Center Pillar
BM	112 (LHD)	Under the Rear RH Seat
BN	112 (LHD)	Back Panel Center

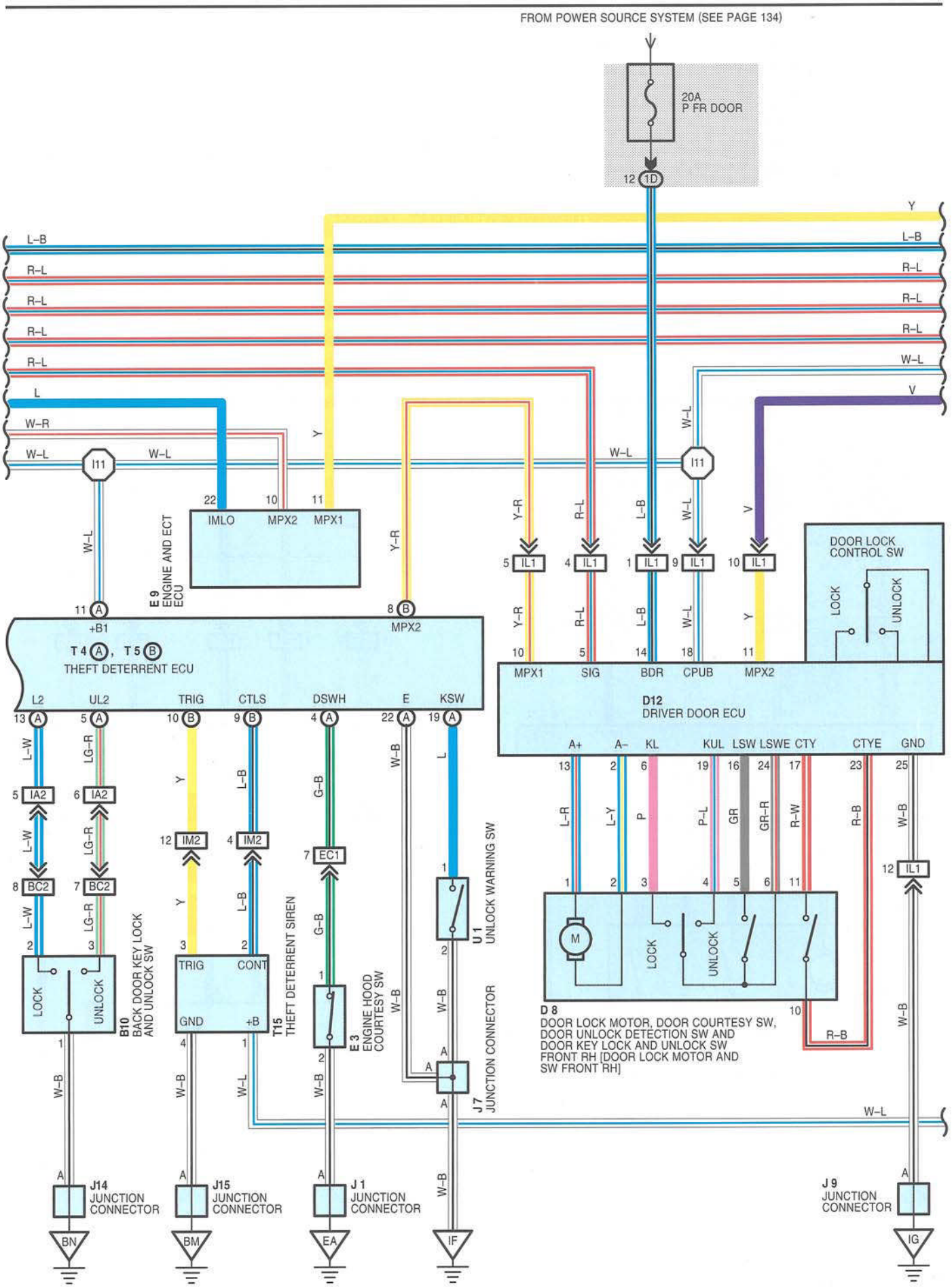
 **: SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	110 (LHD)	Cowl Wire	B1	112 (LHD)	Rear Door RH Wire
I5			B6	112 (LHD)	Floor Wire
I8					

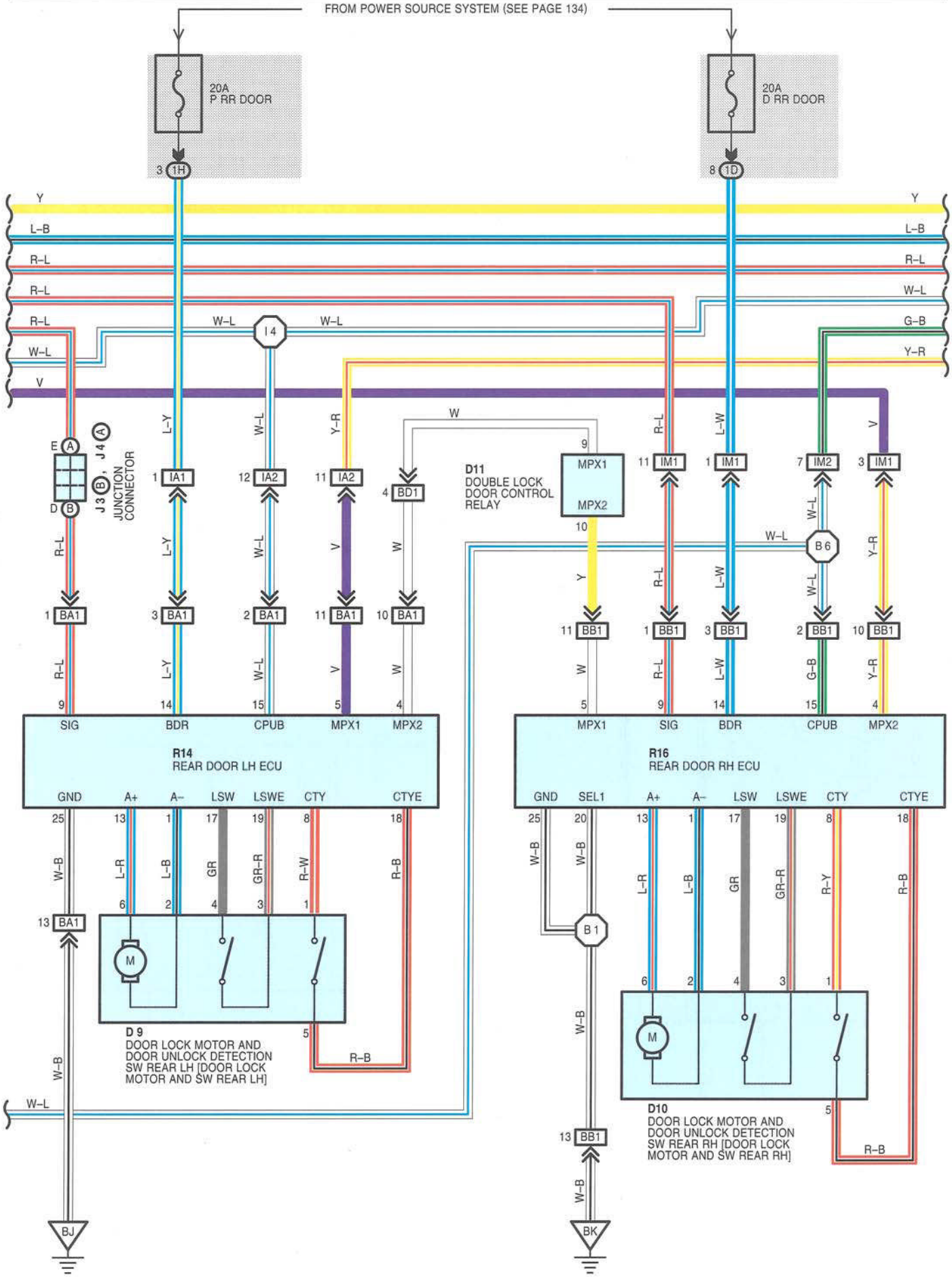
THEFT DETERRENT AND DOOR LOCK CONTROL (RHD)

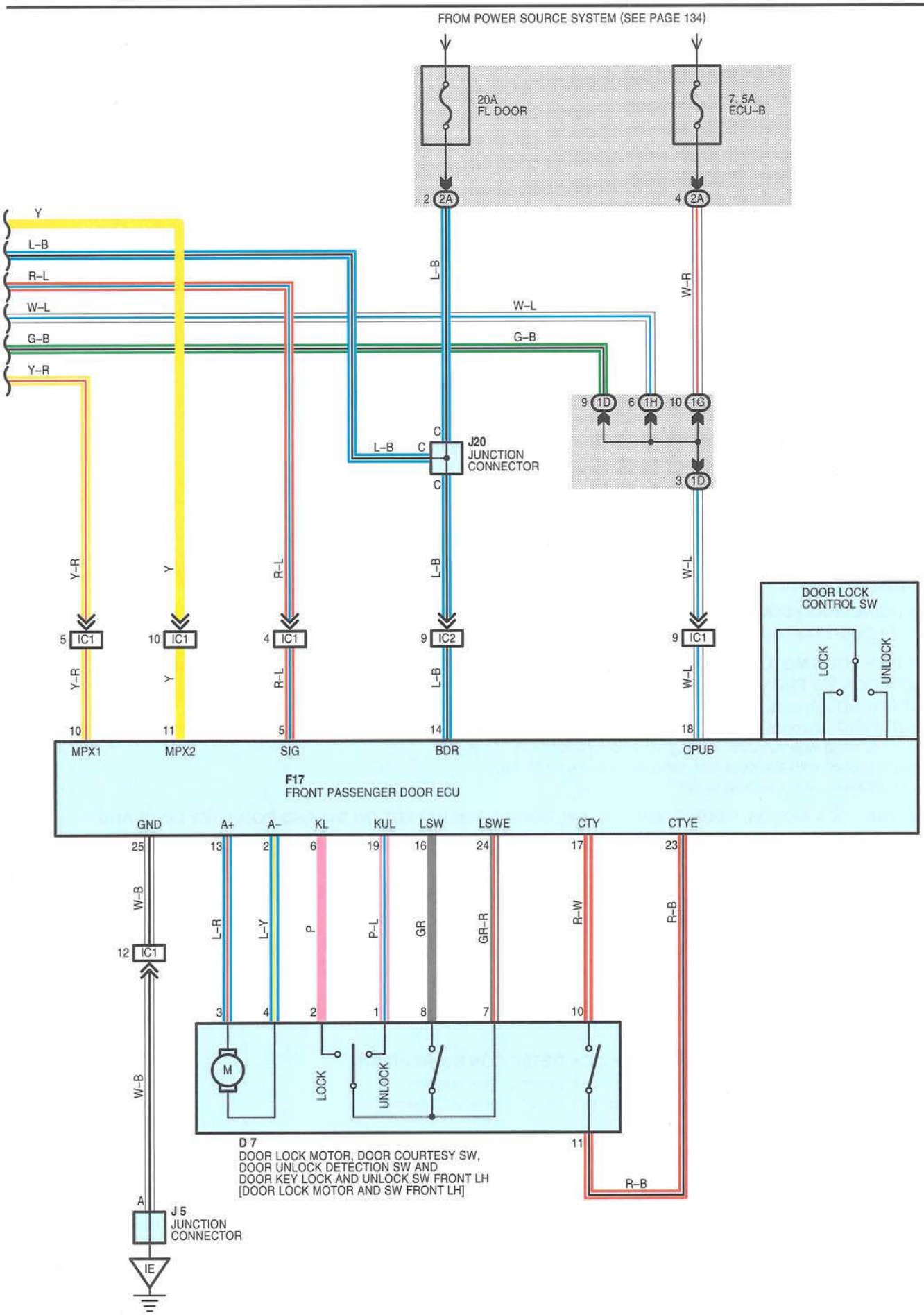


* 1 : EUROPE
* 2 : EXCEPT EUROPE



THEFT DETERRENT AND DOOR LOCK CONTROL (RHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
FL DOOR
7.5A
ECU-B
2 2A
4 2A
Y
L-B
R-L
W-L
G-B
Y-R
L-B
W-R
W-L
G-B
9 1D
6 1H
10 1G
3 1D
C
J20
JUNCTION
CONNECTOR
L-B
Y-R
Y
R-L
L-B
W-L
5 IC1
10 IC1
4 IC1
9 IC2
9 IC1
DOOR LOCK
CONTROL SW
LOCK
UNLOCK
10
11
5
14
18
MPX1
MPX2
SIG
BDR
CPUB
F17
FRONT PASSENGER DOOR ECU
GND
A+
A-
KL
KUL
LSW
LSWE
CTY
CTYE
25
13
2
6
19
16
24
17
23
W-B
L-R
L-Y
P
P-L
GR
GR-R
R-W
R-B
12 IC1
3
4
2
1
8
7
10
11
M
LOCK
UNLOCK
D7
DOOR LOCK MOTOR, DOOR COURTESY SW,
DOOR UNLOCK DETECTION SW AND
DOOR KEY LOCK AND UNLOCK SW FRONT LH
[DOOR LOCK MOTOR AND SW FRONT LH]
R-B
W-B
A
J5
JUNCTION
CONNECTOR
IE

THEFT DETERRENT AND DOOR LOCK CONTROL (RHD)

SYSTEM OUTLINE

1. MANUAL UNLOCK OPERATION

When the door lock control SW of the driver or front passenger side to pressed to unlock side , through communication control of the door ECU, the current flows from TERMINAL A- of the door ECU to door lock motor to TERMINAL A+ of the door ECU to GROUND, and unlocks the door.

2. MANUAL LOCK OPERATION

When the door lock control SW of the driver or front passenger side to pressed to lock side, through communication control of the door ECU, the current flows from TERMINAL A+ of the door ECU to door lock motor to TERMINAL A- of the door ECU to GROUND, and locks the door,

3. DOOR KEY UNLOCK OPERATION

* Unlock operation from the driver door
  When unlocking from the driver door with the ignition key, a signal from the door key lock and unlock SW is input to TERMINAL KUL of the driver door ECU. As a result, the driver door ECU operates and the current flows from TERMINAL A- of the driver door ECU to door lock motor to TERMINAL A+ of the door ECU to GROUND, and unlocks the driver side door only.
* Unlock operation from the passenger door
  When unlocking from the passenger door with the ignition key, a signal from the door key lock and unlock SW is input to TERMINAL KUL of the driver door ECU. As a result, through communication control of the body ECU and door ECU, the current flows from TERMINAL A- of the door ECU to door lock motor to TERMINAL A+ of the door ECU to GROUND, and unlocks all the doors at once.

4. IGNITION KEY REMINDER OPERATION

When the door lock operation is made using the door knob with the ignition key remained inserted in the key cylinder and the door open, unlock operation is automatically made. Additionally, if lock operation is made with the door lock control SW or door key lock and unlock SW, unlock operation is automatically made after the lock operation has been completed.

SERVICE HINTS

E3 ENGINE HOOD COURTESY SW

1-2 : Closed with the engine hood open

D7 DOOR LOCK MOTOR, DOOR COURTESY SW, DOOR LOCK DETECTION SW AND DOOR KEY LOCK AND UNLOCK SW FRONT LH

3-GROUND : Approx. **12** volts with the door lock motor at lock operate
4-GROUND : Approx. **12** volts with the door lock motor at unlock operate
2-7 : Closed with the door lock cylinder locked with key
1-7 : Closed with the door lock cylinder unlocked with key
10-11 : Closed with the door open

D8 DOOR LOCK MOTOR, DOOR COURTESY SW, DOOR LOCK DETECTION SW AND DOOR KEY LOCK AND UNLOCK SW FRONT RH

1-GROUND : Approx. **12** volts with the door lock motor at lock operate
2-GROUND : Approx. **12** volts with the door lock motor at unlock operate
3-6 : Closed with the door lock cylinder locked with key
4-6 : Closed with the door lock cylinder unlocked with key
10-11 : Closed with the door open

D9 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR LH

6-GROUND : Approx. **12** volts with the door lock motor at lock operate
2-GROUND : Approx. **12** volts with the door lock motor at unlock operate
1-5 : Closed with the door open

D10 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR RH

6-GROUND : Approx. **12** volts with the door lock motor at lock operate
2-GROUND : Approx. **12** volts with the door lock motor at unlock operate
1-5 : Closed with the door open

B10 BACK DOOR KEY LOCK AND UNLOCK SW

2-1 : Closed with the door lock cylinder locked with key
3-1 : Closed with the door lock cylinder unlocked with key

B11 BACK DOOR UNLOCK DETECTION SW AND BACK DOOR LOCK MOTOR

2-GROUND : Approx. **12** volts with the door lock motor at lock operate
3-GROUND : Approx. **12** volts with the door lock motor at unlock operate

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5 A	100 (RHD)	D12	102 (RHD)	J14	102 (RHD)
B7 C	100 (RHD)	E3	98 (RHD)	J15	102 (RHD)
B8 D	100 (RHD)	E9	100 (RHD)	J20	101 (RHD)
B9	102 (RHD)	F17	102 (RHD)	R14	103 (RHD)
B10	102 (RHD)	I16 A	101 (RHD)	R16	103 (RHD)
B11	102 (RHD)	I17 B	101 (RHD)	R26	103 (RHD)
C12	100 (RHD)	J1	99 (RHD)	T4 A	101 (RHD)
D7	102 (RHD)	J3 B	101 (RHD)	T5 B	101 (RHD)
D8	102 (RHD)	J4 A	101 (RHD)	T6	101 (RHD)
D9	102 (RHD)	J5	101 (RHD)	T15	103 (RHD)
D10	102 (RHD)	J7	101 (RHD)	U1	101 (RHD)
D11	102 (RHD)	J9	101 (RHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1K	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2E	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3F		
3G		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	116 (RHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IA1	118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB1	118 (RHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
IC1	118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IJ1	120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	122 (RHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC2	122 (RHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BC3		
BD1	122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

THEFT DETERRENT AND DOOR LOCK CONTROL (RHD)

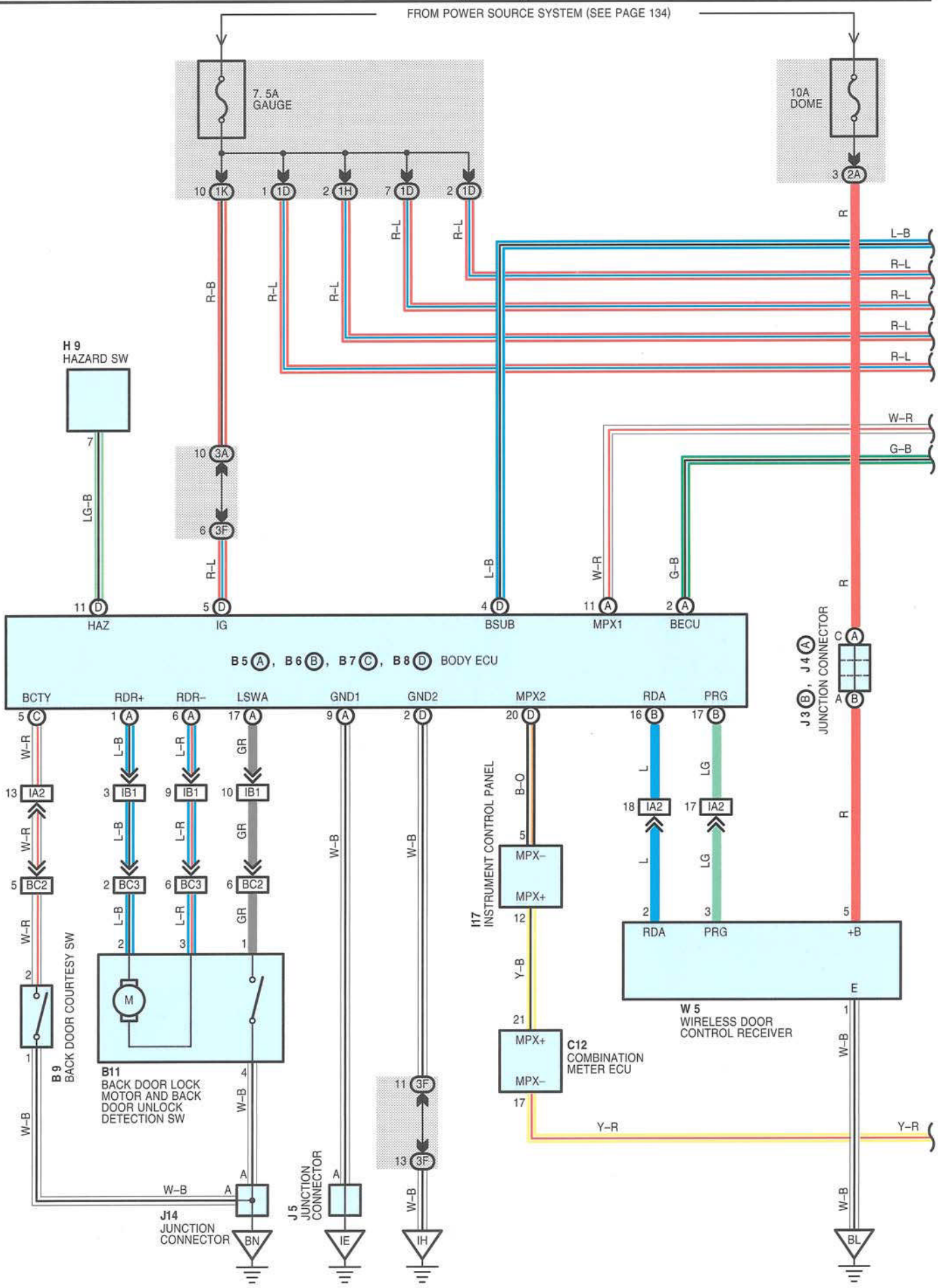
 : GROUND POINTS

Code	See Page	Ground Points Location
EA	116 (RHD)	Engine Compartment Right
IE	118 (RHD)	Cowl Side Panel LH
IF	118 (RHD)	Dash Panel Center
IG	118 (RHD)	Cowl Side Panel RH
IH	118 (RHD)	Instrument Panel Brace RH
BJ	122 (RHD)	Under the Left Center Pillar
BK	122 (RHD)	Under the Right Center Pillar
BM	122 (RHD)	Under the Rear RH Seat
BN	122 (RHD)	Back Panel Center

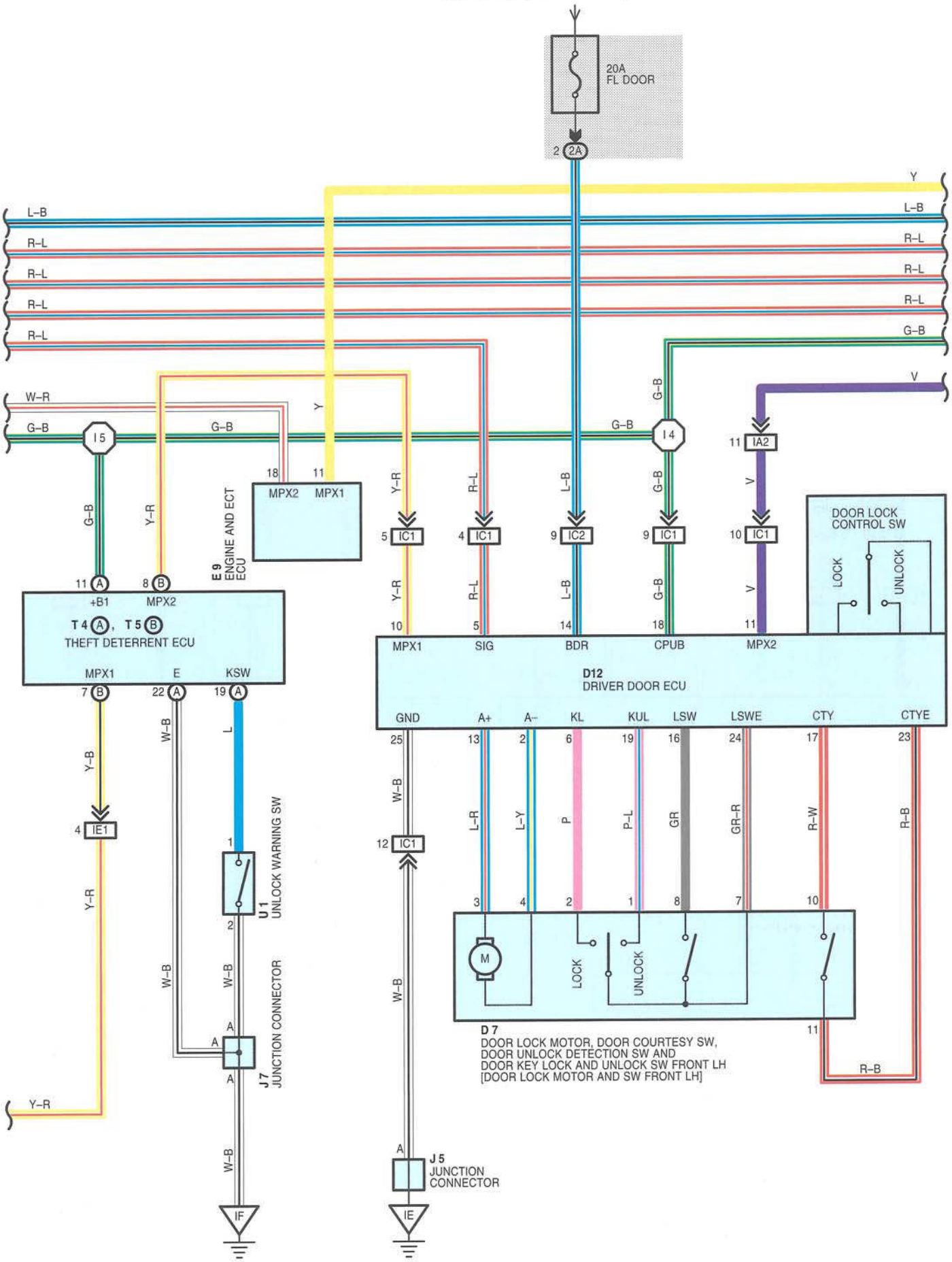
 : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	120 (RHD)	Cowl Wire	B1	122 (RHD)	Rear Door RH Wire
I8			B6	122 (RHD)	Floor Wire
I11					

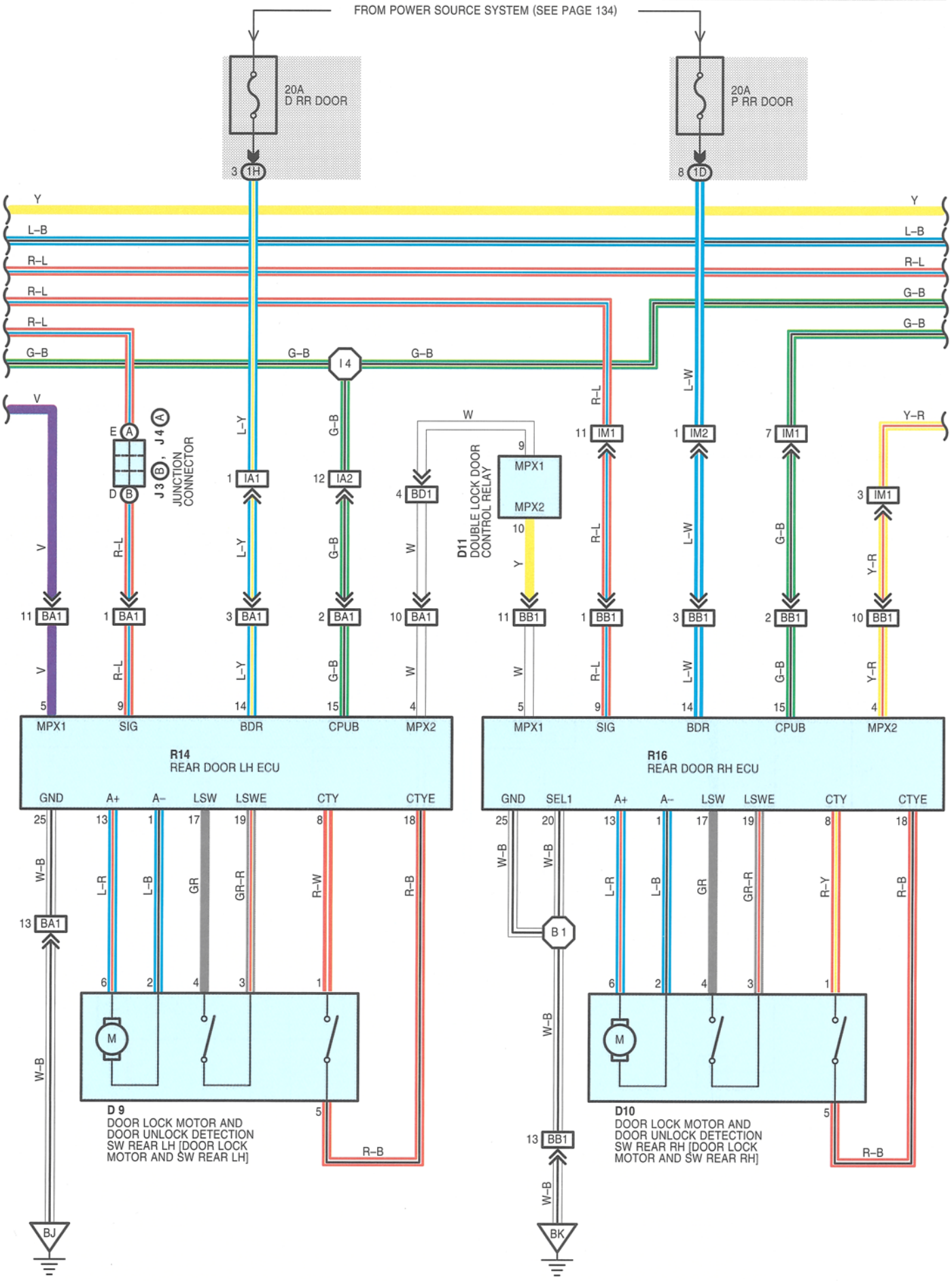
WIRELESS DOOR LOCK CONTROL (LHD)

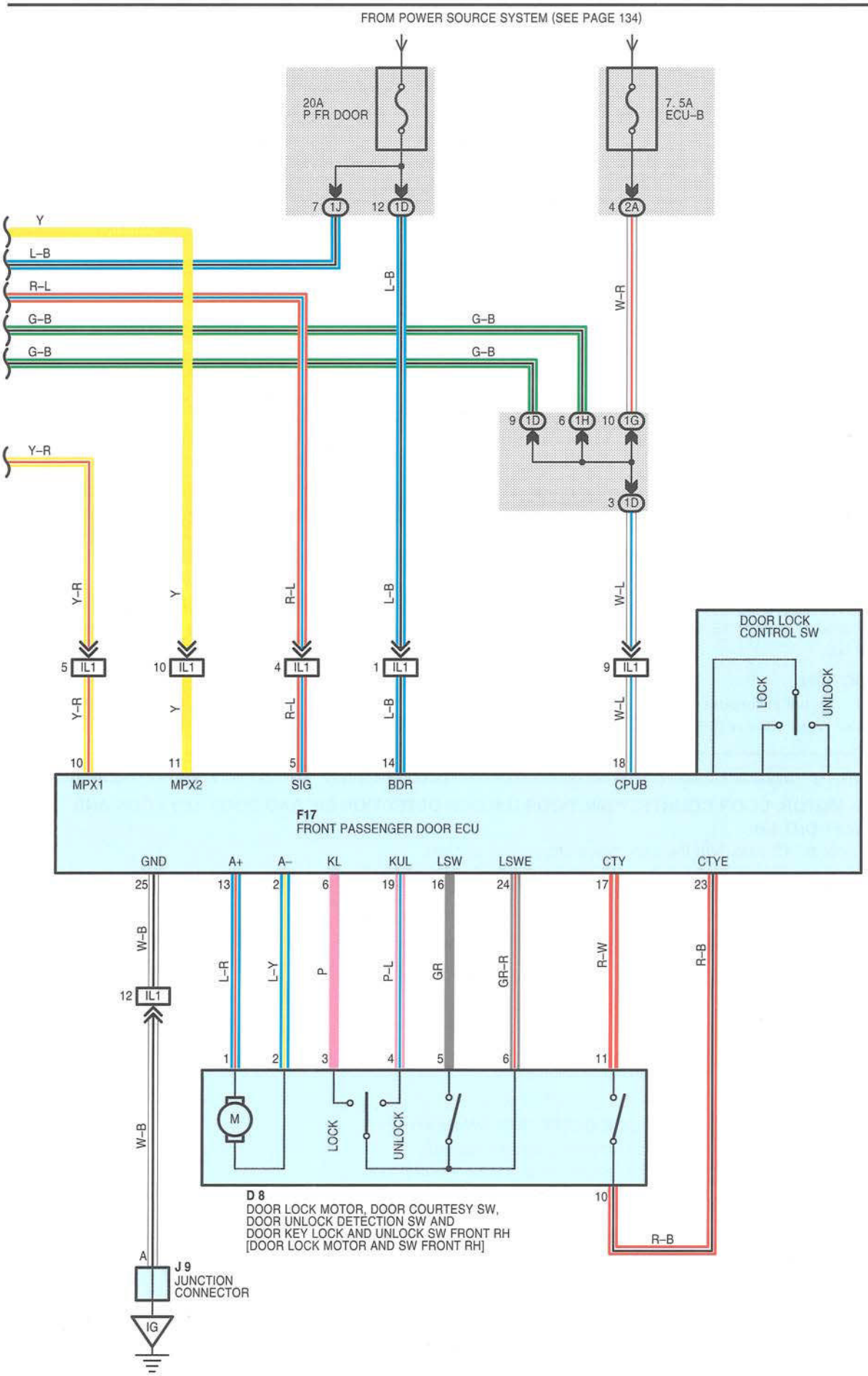


FROM POWER SOURCE SYSTEM (SEE PAGE 134)



WIRELESS DOOR LOCK CONTROL (LHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
P FR DOOR
7. 5A
ECU-B
7 1J
12 1D
4 2A
Y
L-B
R-L
G-B
G-B
L-B
W-R
G-B
G-B
9 1D
6 1H
10 1G
3 1D
Y-R
Y
R-L
L-B
W-L
DOOR LOCK
CONTROL SW
LOCK
UNLOCK
5 IL1
10 IL1
4 IL1
1 IL1
9 IL1
Y-R
Y
R-L
L-B
W-L
10
11
5
14
18
MPX1
MPX2
SIG
BDR
CPUB
F17
FRONT PASSENGER DOOR ECU
GND
A+
A-
KL
KUL
LSW
LSWE
CTY
CTYE
25
13
2
6
19
16
24
17
23
W-B
L-R
L-Y
P
P-L
GR
GR-R
R-W
R-B
12 IL1
1
2
3
4
5
6
11
M
LOCK
UNLOCK
10
R-B
W-B
D 8
DOOR LOCK MOTOR, DOOR COURTESY SW,
DOOR UNLOCK DETECTION SW AND
DOOR KEY LOCK AND UNLOCK SW FRONT RH
[DOOR LOCK MOTOR AND SW FRONT RH]
A
J 9
JUNCTION
CONNECTOR
IG

WIRELESS DOOR LOCK CONTROL (LHD)

SYSTEM OUTLINE

In this system, the wireless door lock ECU receives weak radio wave transmitted from the transmitter built into the ignition key, and outputs signals to the body ECU. Through communication control of the body ECU and door ECU, all the doors can be locked and unlocked by remote control.

1. NORMAL OPERATION

* Lock operation
  When the lock SW on the transmitter is pressed, all doors are locked.
* Unlock operation
  When the unlock SW on the transmitter is pressed once, only the driver door is unlocked.

2. AUTO LOCK FUNCTION

If the door is not opened within 30 seconds after the door has been unlocked by pressing the unlock SW on the transmitter, all the doors will be locked automatically.

3. WIRELESS DOOR LOCK STOP FUNCTION

If any of the following conditions is detected, the wireless door lock does not function.

* Lock operation
  Any door is open (The door courtesy SW is on). The ignition key is inserted into the ignition key cylinder (The unlock warning SW is on). The ignition SW is turned to the ON position.
* Unlock operation
  The ignition SW is turned to the ON position.

4. VISUAL CONFIRMATION OF LOCK OR UNLOCK FUNCTION

When doors are locked by using the transmitter, the hazard warning lights blink once. When doors are unlock by using the transmitter, the hazard warning lights blinks twice. If UNLOCK SW of the transmitter is pushed while all the doors are locked, doors are unlocked and the room lights are turned on simultaneously.

5. ILLUMINATED ENTRY FUNCTION

When the ECU detects the unlock state after the unlock operation has been made, it turns on the front interior light, such as the ignition key cylinder light for 15 sec. If all the doors are locked during this operation, lighting is cancelled and the lights immediately fade out.

6. REPEAT FUNCTION

If the lock detection signal in response to the output signal is not received after the body ECU has output the lock signal, the lock signal is output again after approximately 2 sec.

SERVICE HINTS

D7 DOOR LOCK MOTOR, DOOR COURTESY SW, DOOR UNLOCK DETECTION SW AND DOOR KEY LOCK AND UNLOCK SW FRONT LH

3-GROUND : Approx. **12** volts with the door lock motor at lock operate
4-GROUND : Approx. **12** volts with the door lock motor at unlock operate
2-7 : Closed with the door lock cylinder locked with key
1-7 : Closed with the door lock cylinder unlocked with key
10-11 : Closed with the door open

D8 DOOR LOCK MOTOR, DOOR COURTESY SW, DOOR UNLOCK DETECTION SW AND DOOR KEY LOCK AND UNLOCK SW FRONT RH

1-GROUND : Approx. **12** volts with the door lock motor at lock operate
2-GROUND : Approx. **12** volts with the door lock motor at unlock operate
3-6 : Closed with the door lock cylinder locked with key
4-6 : Closed with the door lock cylinder unlocked with key
11-10 : Closed with the door open

D9 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR LH

6-GROUND : Approx. **12** volts with the door lock motor at lock operate
2-GROUND : Approx. **12** volts with the door lock motor at unlock operate

D10 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR RH

6-GROUND : Approx. **12** volts with the door lock motor at lock operate
2-GROUND : Approx. **12** volts with the door lock motor at unlock operate

B11 BACK DOOR LOCK MOTOR AND BACK DOOR UNLOCK DETECTION SW

2-GROUND : Approx. **12** volts with the door lock motor at lock operate
3-GROUND : Approx. **12** volts with the door lock motor at unlock operate

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5 A	92 (LHD)	D10	94 (LHD)	J7	93 (LHD)
B6 B	92 (LHD)	D11	94 (LHD)	J9	93 (LHD)
B7 C	92 (LHD)	D12	94 (LHD)	J14	94 (LHD)
B8 D	92 (LHD)	E9	92 (LHD)	R14	95 (LHD)
B9	94 (LHD)	F17	94 (LHD)	R16	95 (LHD)
B11	94 (LHD)	H9	93 (LHD)	T4 A	93 (LHD)
C12	92 (LHD)	I17	93 (LHD)	T5 B	93 (LHD)
D7	94 (LHD)	J3 B	93 (LHD)	U1	93 (LHD)
D8	94 (LHD)	J4 A	93 (LHD)	W5	95 (LHD)
D9	94 (LHD)	J5	93 (LHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB1	108 (LHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IL1	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	112 (LHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC2	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BC3		
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

▽ : GROUND POINTS

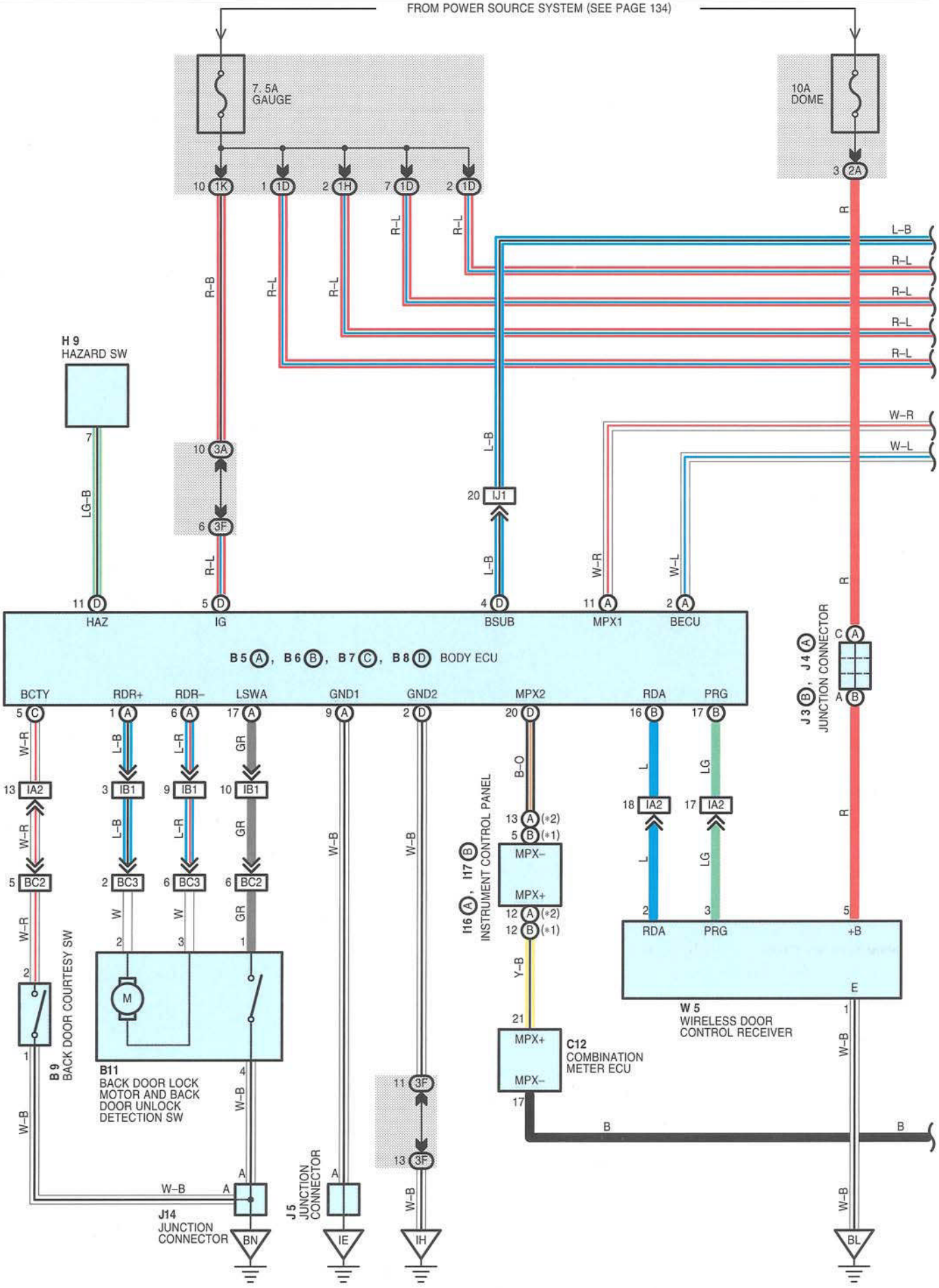
Code	See Page	Ground Points Location
IE	108 (LHD)	Cowl Side Panel LH
IF	108 (LHD)	Dash Panel Center
IG	108 (LHD)	Cowl Side Panel RH
IH	108 (LHD)	Instrument Panel Brace RH
BJ	112 (LHD)	Under the Left Center Pillar
BK	112 (LHD)	Under the Right Center Pillar
BL	112 (LHD)	Left Rear Quarter Panel
BN	112 (LHD)	Back Panel Center

WIRELESS DOOR LOCK CONTROL (LHD)

 : SPLICE POINTS

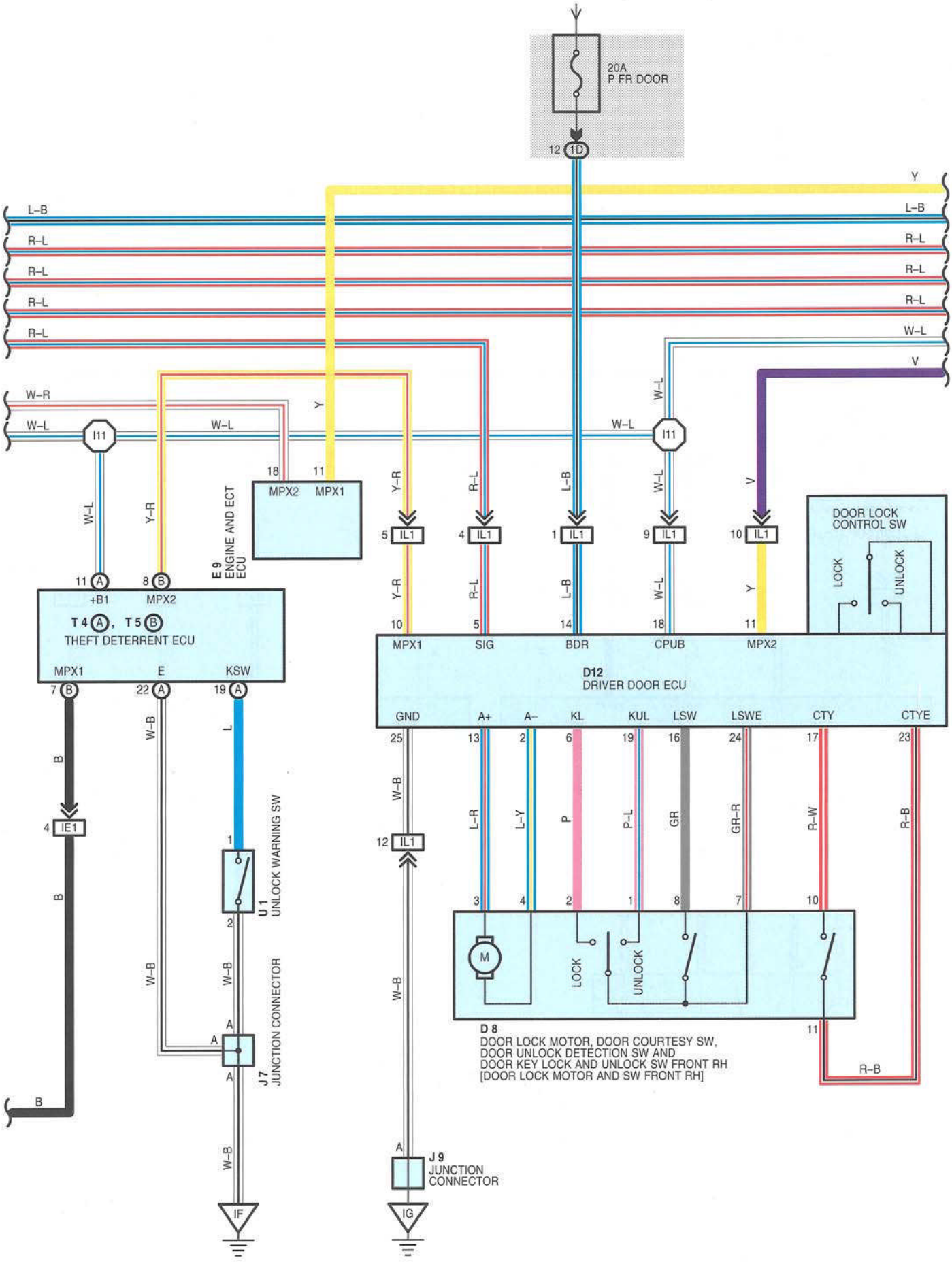
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	110 (LHD)	Cowl Wire	B1	112 (LHD)	Rear Door RH Wire
I5					

WIRELESS DOOR LOCK CONTROL (RHD)

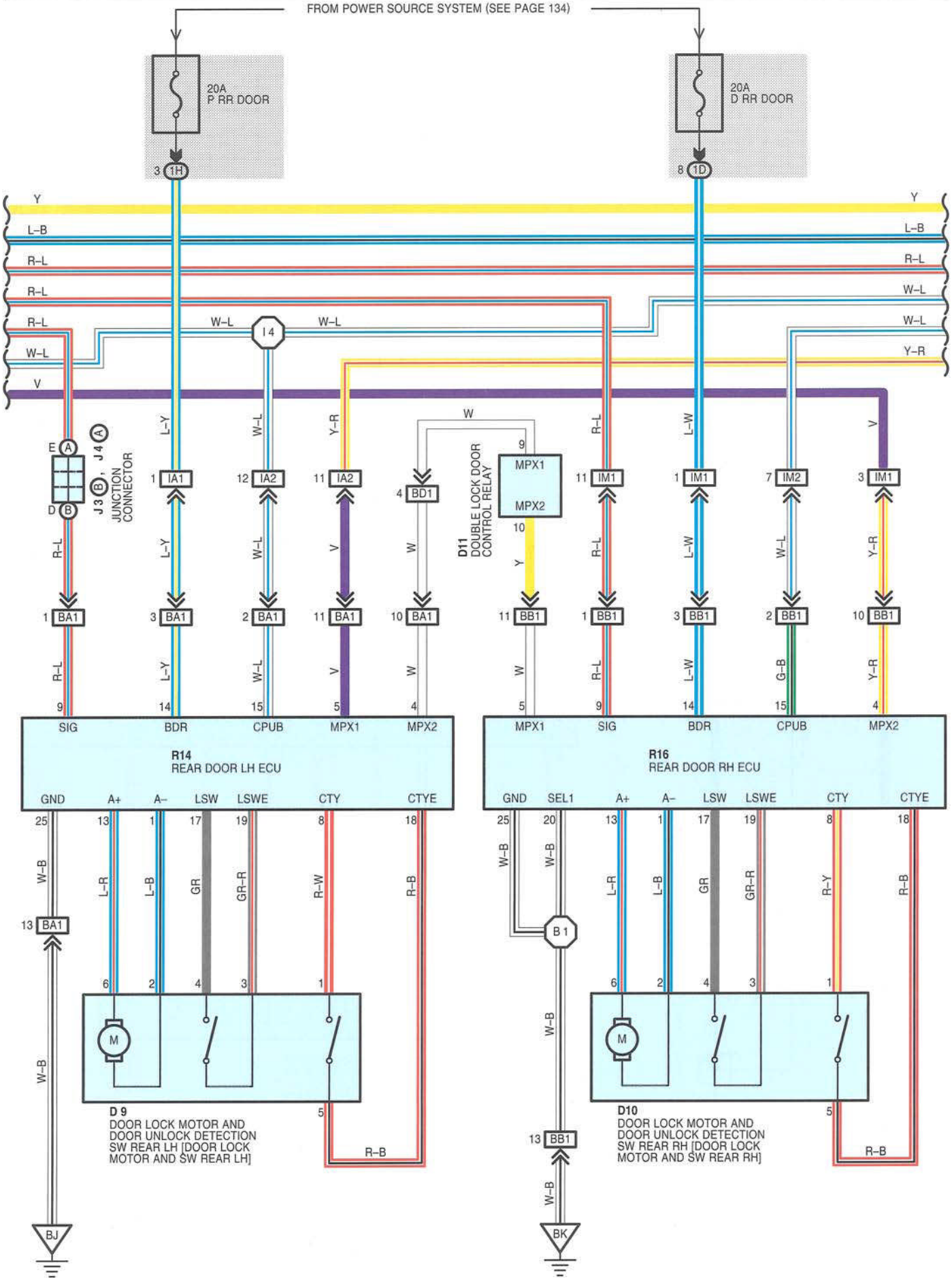


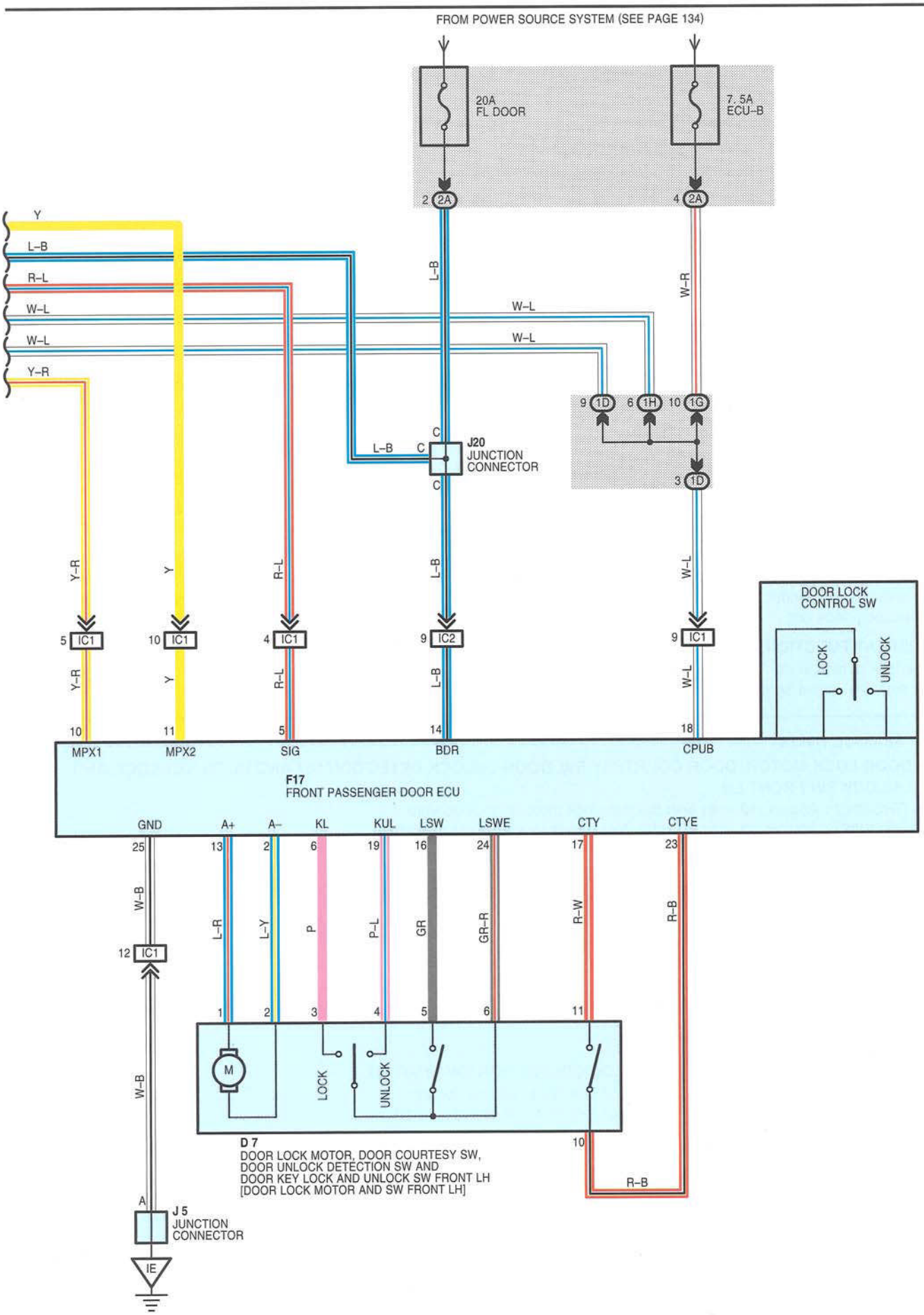
* 1 : EUROPE
* 2 : EXCEPT EUROPE

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



WIRELESS DOOR LOCK CONTROL (RHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
FL DOOR
7.5A
ECU-B
2 2A
4 2A
Y
L-B
R-L
W-L
W-L
Y-R
L-B
W-R
W-L
W-L
9 1D
6 1H
10 1G
3 1D
C
L-B C
J20
JUNCTION
CONNECTOR
C
Y-R
Y
R-L
L-B
W-L
5 IC1
10 IC1
4 IC1
9 IC2
9 IC1
DOOR LOCK
CONTROL SW
LOCK
UNLOCK
Y-R
Y
R-L
L-B
W-L
10
11
5
14
18
MPX1
MPX2
SIG
BDR
CPUB
F17
FRONT PASSENGER DOOR ECU
GND
A+
A-
KL
KUL
LSW
LSWE
CTY
CTYE
25
13
2
6
19
16
24
17
23
W-B
L-R
L-Y
P
P-L
GR
GR-R
R-W
R-B
12 IC1
1
2
3
4
5
6
11
M
LOCK
UNLOCK
10
R-B
D 7
DOOR LOCK MOTOR, DOOR COURTESY SW,
DOOR UNLOCK DETECTION SW AND
DOOR KEY LOCK AND UNLOCK SW FRONT LH
[DOOR LOCK MOTOR AND SW FRONT LH]
W-B
A
J 5
JUNCTION
CONNECTOR
IE

WIRELESS DOOR LOCK CONTROL (RHD)

SYSTEM OUTLINE

In this system, the wireless door lock ECU receives weak radio wave transmitted from the transmitter built into the ignition key, and outputs signals to the body ECU. Through communication control of the body ECU and door ECU, all the doors can be locked and unlocked by remote control.

1. NORMAL OPERATION

* Lock operation
  When the lock SW on the transmitter is pressed, all doors are locked.
* Unlock operation
  When the unlock SW on the transmitter is pressed once, only the driver door is unlocked.

2. AUTO LOCK FUNCTION

If the door is not opened within 30 seconds after the door has been unlocked by pressing the unlock SW on the transmitter, all the doors will be locked automatically.

3. WIRELESS DOOR LOCK STOP FUNCTION

If any of the following conditions is detected, the wireless door lock does not function.

* Lock operation
  Any door is open (The door courtesy SW is on). The ignition key is inserted into the ignition key cylinder (The unlock warning SW is on). The ignition SW is turned to the ON position.
* Unlock operation
  The ignition SW is turned to the ON position.

4. VISUAL CONFIRMATION OF LOCK OR UNLOCK FUNCTION

When doors are locked by using the transmitter, the hazard warning lights blink once. When doors are unlock by using the transmitter, the hazard warning lights blinks twice. If UNLOCK SW of the transmitter is pushed while all the doors are locked, doors are unlocked and the room lights are turned on simultaneously.

5. ILLUMINATED ENTRY FUNCTION

When the ECU detects the unlock state after the unlock operation has been made, it turns on the front interior light, such as the ignition key cylinder light for 15 sec. If all the doors are locked during this operation, lighting is cancelled and the lights immediately fade out.

6. REPEAT FUNCTION

If the lock detection signal in response to the output signal is not received after the body ECU has output the lock signal, the lock signal is output again after approximately 2 sec.

SERVICE HINTS

D7 DOOR LOCK MOTOR, DOOR COURTESY SW, DOOR UNLOCK DETECTION SW AND DOOR KEY LOCK AND UNLOCK SW FRONT LH

1-GROUND : Approx. **12** volts with the door lock motor at lock operate
2-GROUND : Approx. **12** volts with the door lock motor at unlock operate
3-6 : Closed with the door lock cylinder locked with key
4-6 : Closed with the door lock cylinder unlocked with key
11-10 : Closed with the door open

D8 DOOR LOCK MOTOR, DOOR COURTESY SW, DOOR UNLOCK DETECTION SW AND DOOR KEY LOCK AND UNLOCK SW FRONT RH

3-GROUND : Approx. **12** volts with the door lock motor at lock operate
4-GROUND : Approx. **12** volts with the door lock motor at unlock operate
2-7 : Closed with the door lock cylinder locked with key
1-7 : Closed with the door lock cylinder unlocked with key
10-11 : Closed with the door open

D9 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR LH

6-GROUND : Approx. **12** volts with the door lock motor at lock operate
2-GROUND : Approx. **12** volts with the door lock motor at unlock operate

D10 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR RH

6-GROUND : Approx. **12** volts with the door lock motor at lock operate
2-GROUND : Approx. **12** volts with the door lock motor at unlock operate

B11 BACK DOOR UNLOCK DETECTION SW AND BACK DOOR LOCK MOTOR

2-GROUND : Approx. **12** volts with the door lock motor at lock operate
3-GROUND : Approx. **12** volts with the door lock motor at unlock operate

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5 A	100 (RHD)	D11	102 (RHD)	J9	101 (RHD)
B6 B	100 (RHD)	D12	102 (RHD)	J14	102 (RHD)
B7 C	100 (RHD)	E9	100 (RHD)	J20	101 (RHD)
B8 D	100 (RHD)	F17	102 (RHD)	R14	103 (RHD)
B9	102 (RHD)	H9	101 (RHD)	R16	103 (RHD)
B11	102 (RHD)	I16 A	101 (RHD)	T4 A	101 (RHD)
C12	100 (RHD)	I17 B	101 (RHD)	T5 B	101 (RHD)
D7	102 (RHD)	J3 B	101 (RHD)	U1	101 (RHD)
D8	102 (RHD)	J4 A	101 (RHD)	W5	103 (RHD)
D9	102 (RHD)	J5	101 (RHD)		
D10	102 (RHD)	J7	101 (RHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1K	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		

▭ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB1	118 (RHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
IC1	118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IJ1	120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	122 (RHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC2	122 (RHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BC3		
BD1	122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

▽ : GROUND POINTS

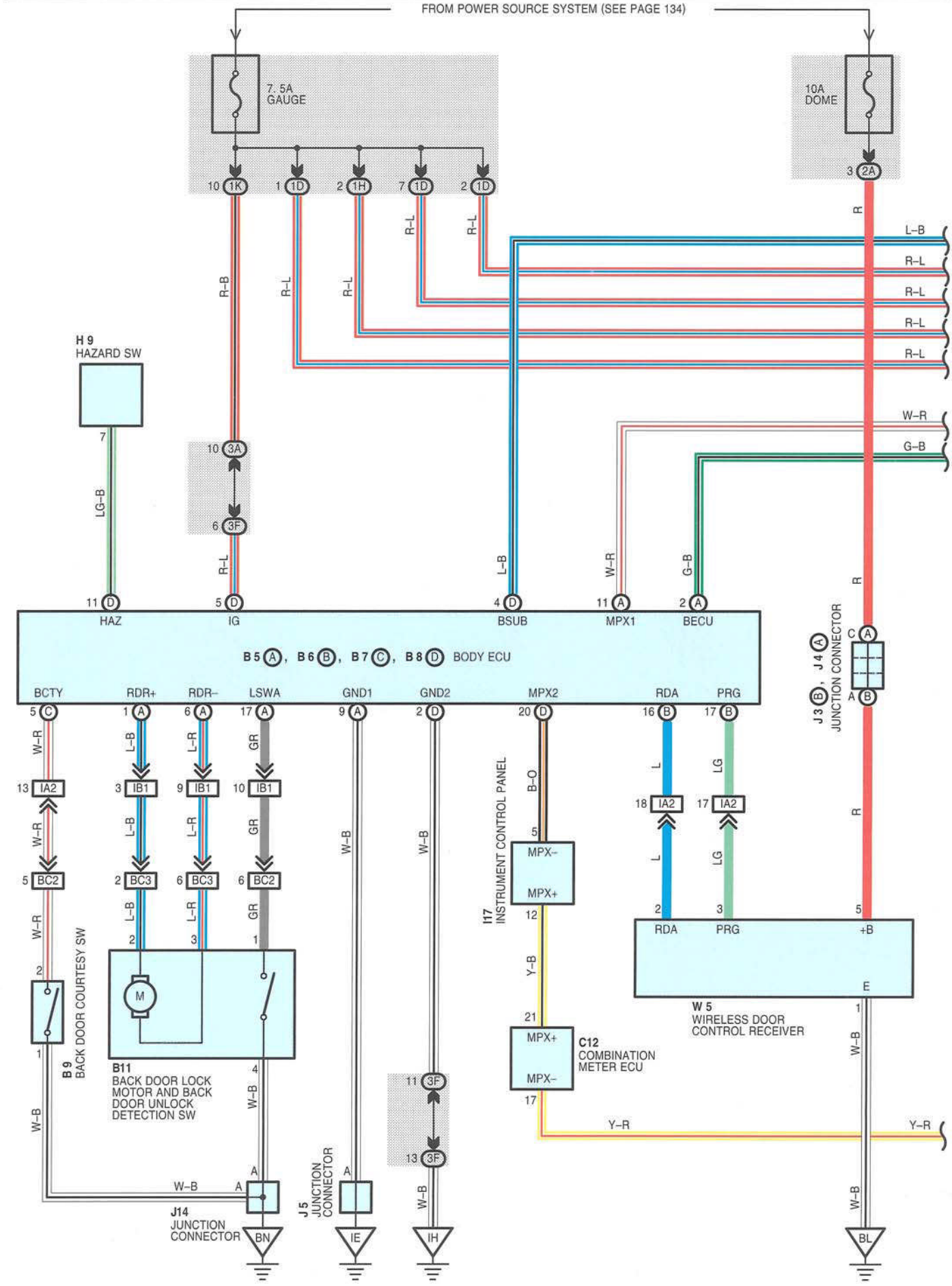
Code	See Page	Ground Points Location
IE	118 (RHD)	Cowl Side Panel LH
IF	118 (RHD)	Dash Panel Center
IG	118 (RHD)	Cowl Side Panel RH
IH	118 (RHD)	Instrument Panel Brace RH
BJ	122 (RHD)	Under the Left Center Pillar
BK	122 (RHD)	Under the Right Center Pillar
BL	122 (RHD)	Left Rear Quarter Panel
BN	122 (RHD)	Back Panel Center

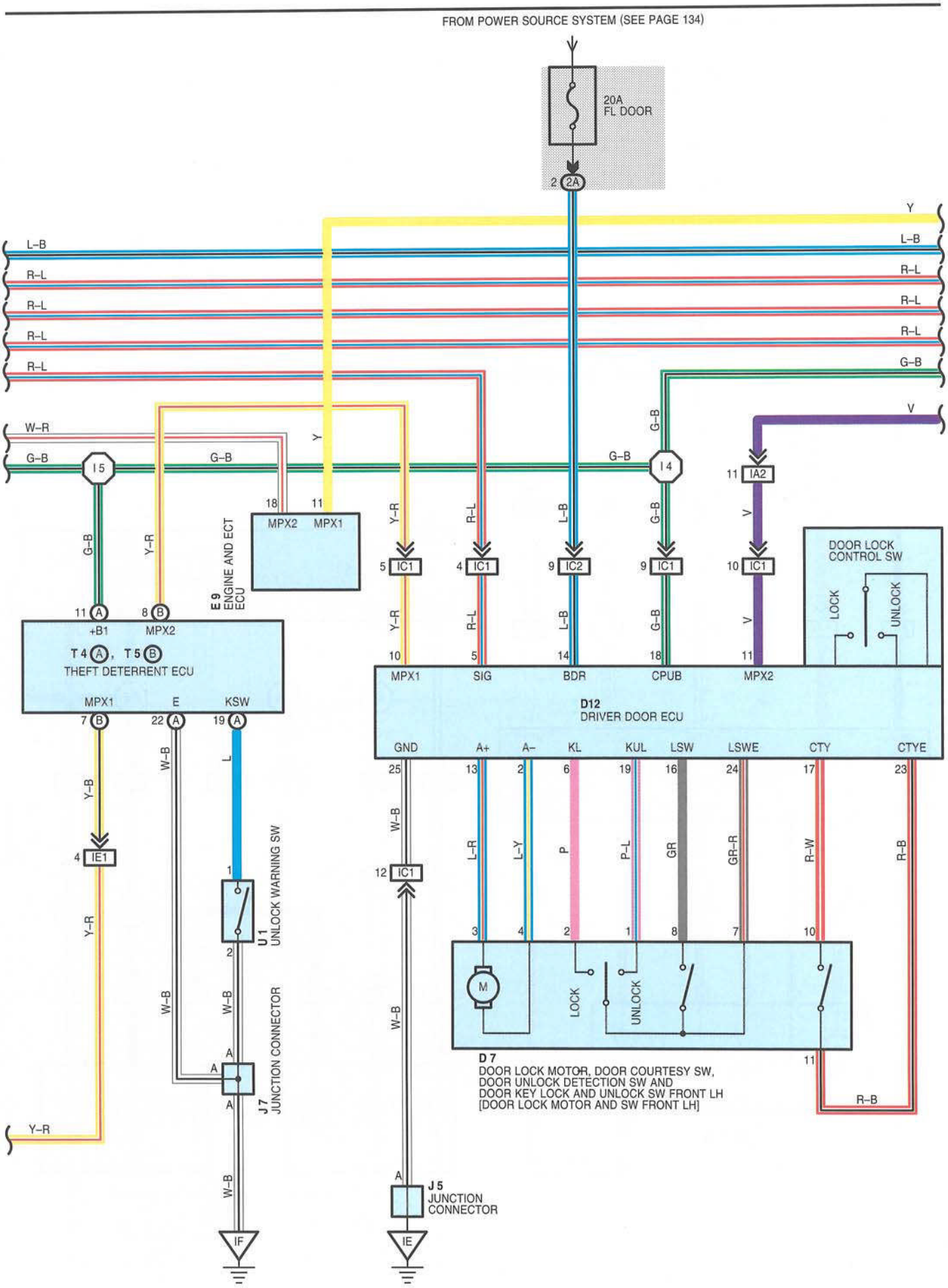
WIRELESS DOOR LOCK CONTROL (RHD)

: SPLICE POINTS

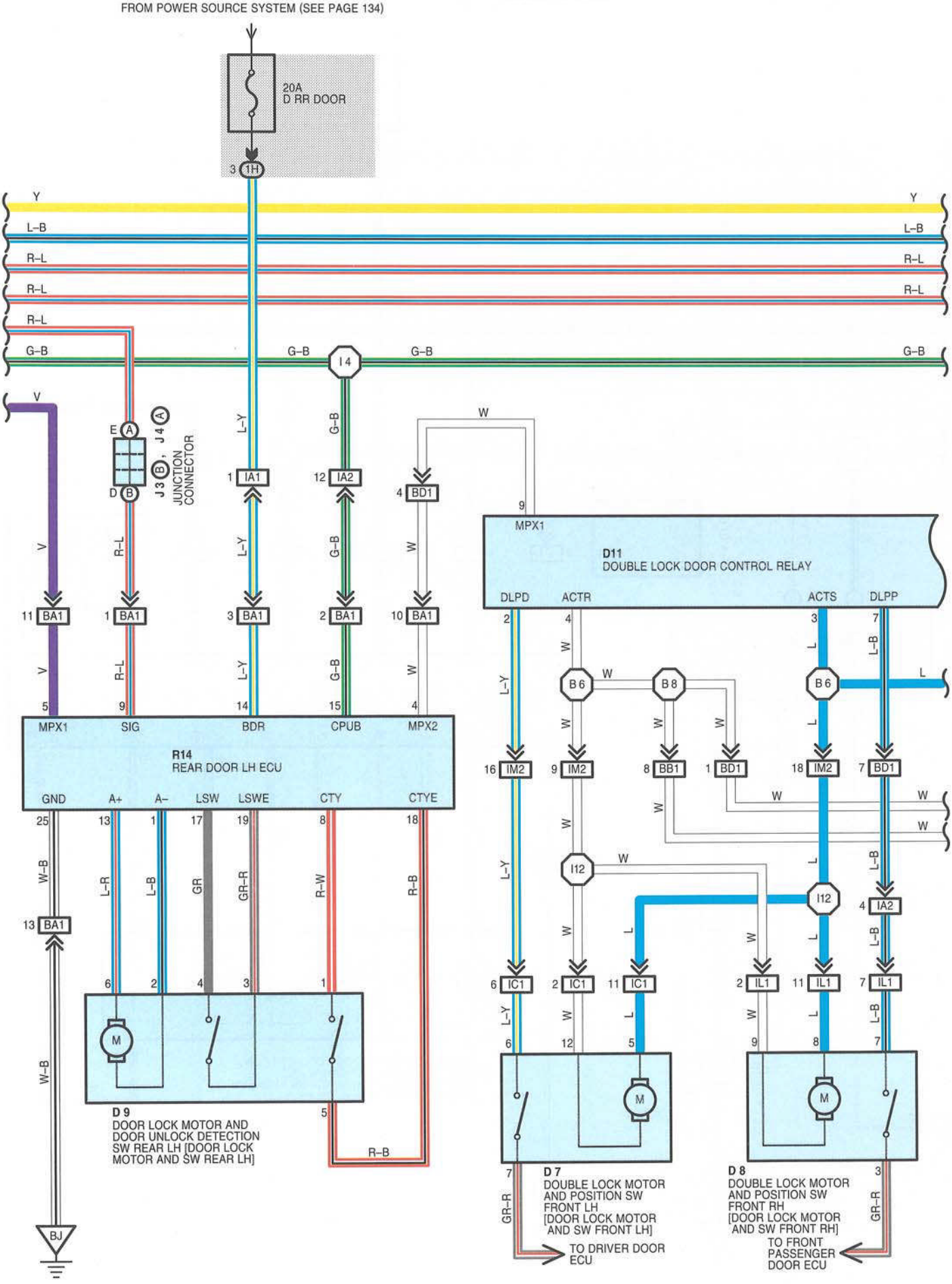
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	120 (RHD)	Cowl Wire	B1	122 (RHD)	Rear Door RH Wire
I11					

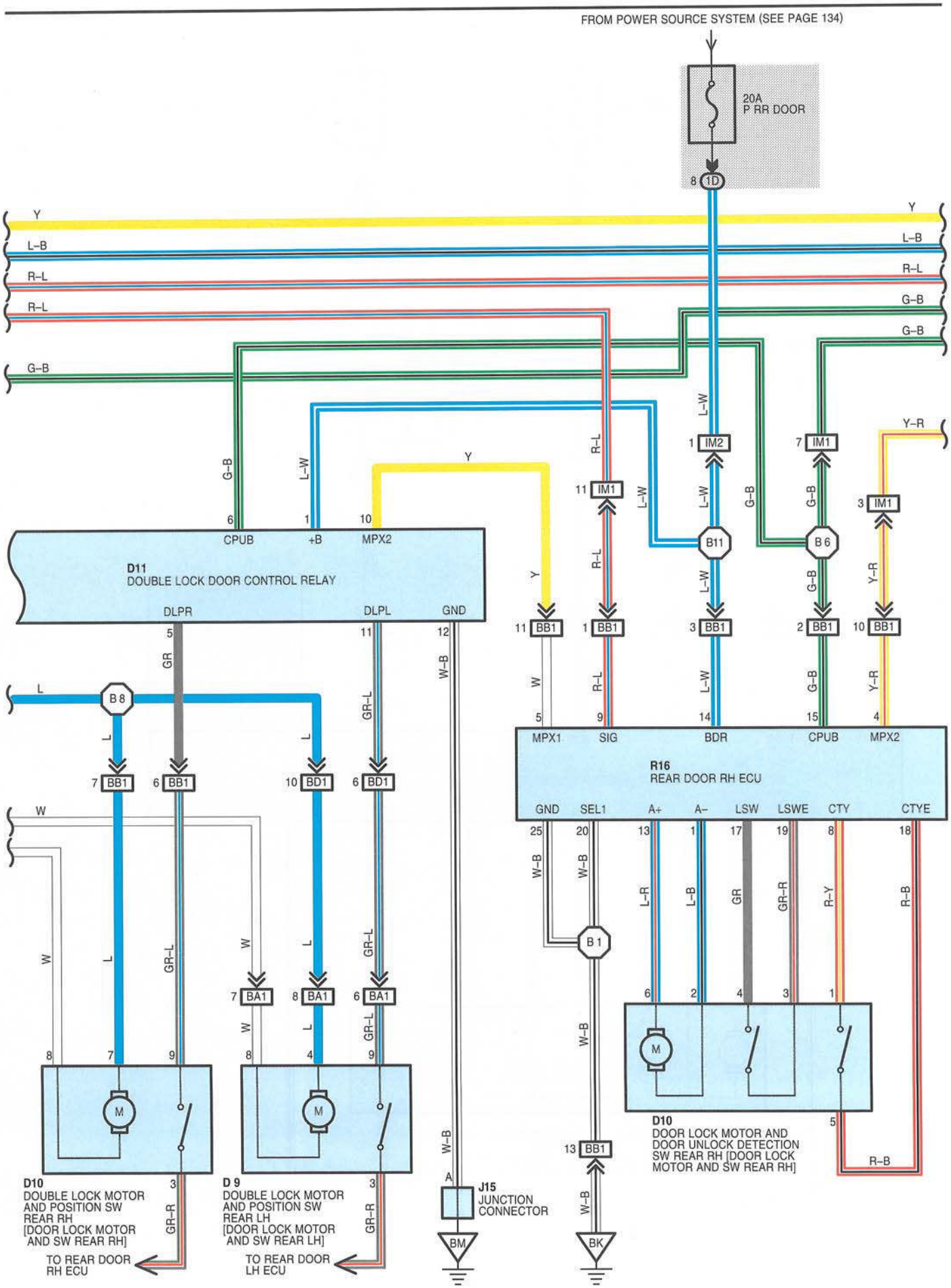
DOUBLE LOCKING (LHD)



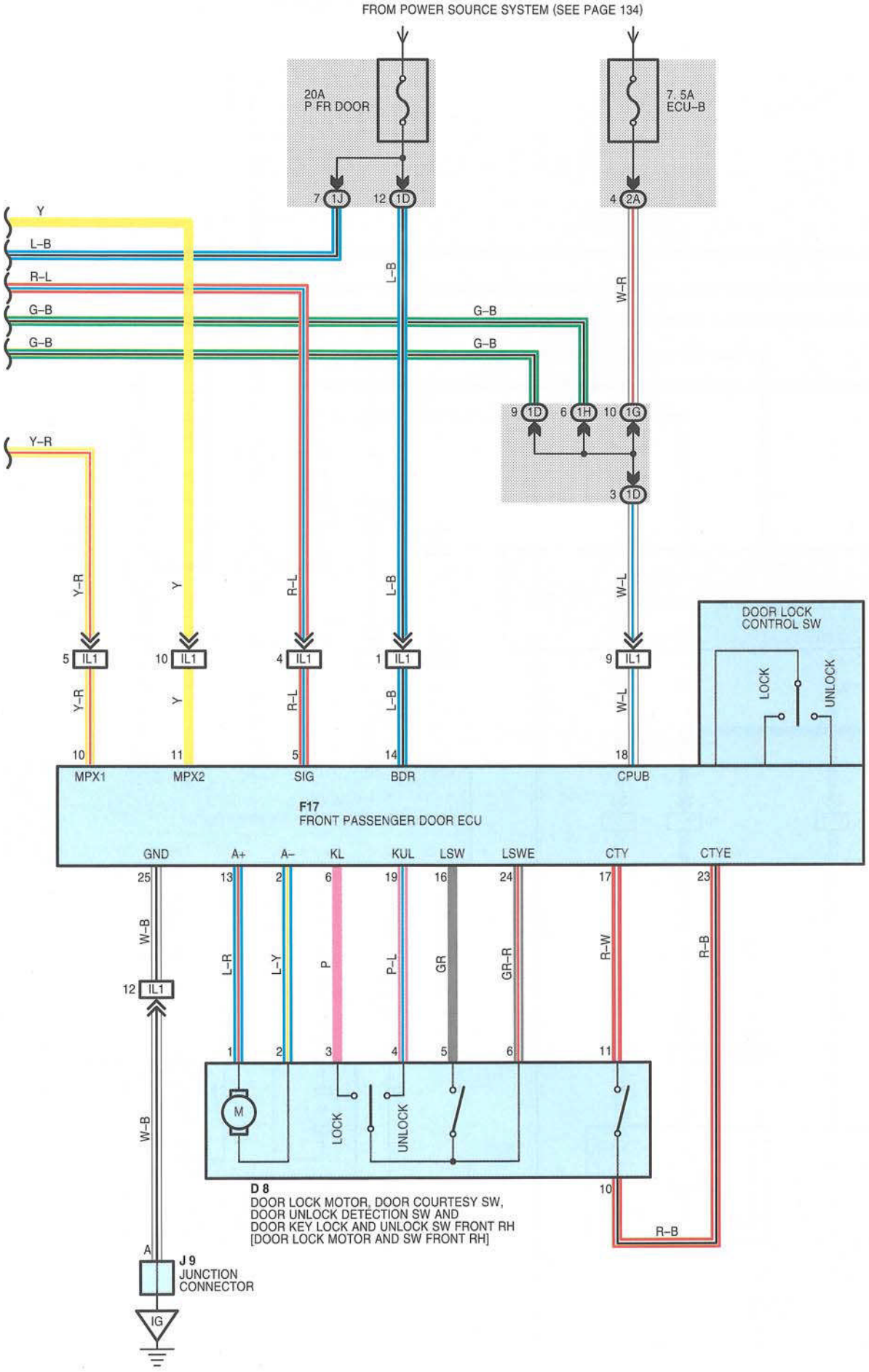

FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
FL DOOR
2A
L-B
R-L
R-L
R-L
R-L
Y
L-B
R-L
R-L
R-L
G-B
W-R
G-B
I5
G-B
Y
G-B
I4
G-B
V
11 IA2
18
11
MPX2
MPX1
E9
ENGINE AND ECT
ECU
Y-R
R-L
L-B
G-B
V
5 IC1
4 IC1
9 IC2
9 IC1
10 IC1
DOOR LOCK
CONTROL SW
LOCK
UNLOCK
11 A
8 B
+B1
MPX2
T4 A, T5 B
THEFT DETERRENT ECU
10
5
14
18
11
MPX1
SIG
BDR
CPUB
MPX2
D12
DRIVER DOOR ECU
MPX1
E
KSW
7 B
22 A
19 A
GND
A+
A-
KL
KUL
LSW
LSWE
CTY
CTYE
25
13
2
6
19
16
24
17
23
Y-B
W-B
L
L-R
L-Y
P
P-L
GR
GR-R
R-W
R-B
4 IE1
12 IC1
1
2
U1
UNLOCK WARNING SW
3
4
2
1
8
7
10
M
LOCK
UNLOCK
Y-R
W-B
W-B
W-B
A
A
A
J7
JUNCTION CONNECTOR
D7
DOOR LOCK MOTOR, DOOR COURTESY SW,
DOOR UNLOCK DETECTION SW AND
DOOR KEY LOCK AND UNLOCK SW FRONT LH
[DOOR LOCK MOTOR AND SW FRONT LH]
11
R-B
Y-R
W-B
A
J5
JUNCTION
CONNECTOR
IF
IE

DOUBLE LOCKING (LHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
P RR DOOR
8 1D
Y
L-B
R-L
R-L
G-B
G-B
G-B
L-W
Y
R-L
L-W
G-B
G-B
Y-R
6 CPUB
1 +B
10 MPX2
D11
DOUBLE LOCK DOOR CONTROL RELAY
DLPR
DLPL
GND
5
11
12
GR
GR-L
W-B
L
B 8
11 BB1
1 BB1
3 BB1
2 BB1
10 BB1
W
R-L
L-W
G-B
Y-R
5
9
14
15
4
MPX1
SIG
BDR
CPUB
MPX2
R16
REAR DOOR RH ECU
GND
SEL1
A+
A-
LSW
LSWE
CTY
CTYE
25
20
13
1
17
19
8
18
W-B
L-R
L-B
GR
GR-R
R-Y
R-B
B 1
6
2
4
3
1
5
7 BB1
6 BB1
10 BD1
6 BD1
7 BA1
8 BA1
6 BA1
W
L
GR-L
8
7
9
4
M
D10
DOUBLE LOCK MOTOR
AND POSITION SW
REAR RH
[DOOR LOCK MOTOR
AND SW REAR RH]
TO REAR DOOR
RH ECU
D 9
DOUBLE LOCK MOTOR
AND POSITION SW
REAR LH
[DOOR LOCK MOTOR
AND SW REAR LH]
TO REAR DOOR
LH ECU
D10
DOOR LOCK MOTOR AND
DOOR UNLOCK DETECTION
SW REAR RH [DOOR LOCK
MOTOR AND SW REAR RH]
R-B
A
J15
JUNCTION
CONNECTOR
BM
13 BB1
BK

DOUBLE LOCKING (LHD)



SERVICE HINTS

D11 DOUBLE LOCK DOOR CONTROL RELAY

1-GROUND : Always approx. **12** volts
6-GROUND : Always approx. **12** volts
12-GROUND : Always continuity

D7 DOUBLE LOCK MOTOR FRONT LH

5-GROUND : Approx. **12** volts with the double lock motor at lock operate
12-GROUND : Approx. **12** volts with the double lock motor at unlock operate

D8 DOUBLE LOCK MOTOR FRONT RH

8-GROUND : Approx. **12** volts with the double lock motor at lock operate
9-GROUND : Approx. **12** volts with the double lock motor at unlock operate

D9 DOUBLE LOCK MOTOR REAR LH

4-GROUND : Approx. **12** volts with the double lock motor at lock operate
8-GROUND : Approx. **12** volts with the double lock motor at unlock operate

D10 DOUBLE LOCK MOTOR REAR RH

7-GROUND : Approx. **12** volts with the double lock motor at lock operate
8-GROUND : Approx. **12** volts with the double lock motor at unlock operate

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B5	A	92 (LHD)	D10		94 (LHD)	J7		93 (LHD)
B6	B	92 (LHD)	D11		94 (LHD)	J9		93 (LHD)
B7	C	92 (LHD)	D12		94 (LHD)	J14		94 (LHD)
B8	D	92 (LHD)	E9		92 (LHD)	J15		94 (LHD)
B9		94 (LHD)	F17		94 (LHD)	R14		95 (LHD)
B11		94 (LHD)	H9		93 (LHD)	R16		95 (LHD)
C12		92 (LHD)	I17		93 (LHD)	T4	A	93 (LHD)
D7		94 (LHD)	J3	B	93 (LHD)	T5	B	93 (LHD)
D8		94 (LHD)	J4	A	93 (LHD)	U1		93 (LHD)
D9		94 (LHD)	J5		93 (LHD)	W5		95 (LHD)

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		

DOUBLE LOCKING (LHD)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB1	108 (LHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IL1	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	112 (LHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC2	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BC3		
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

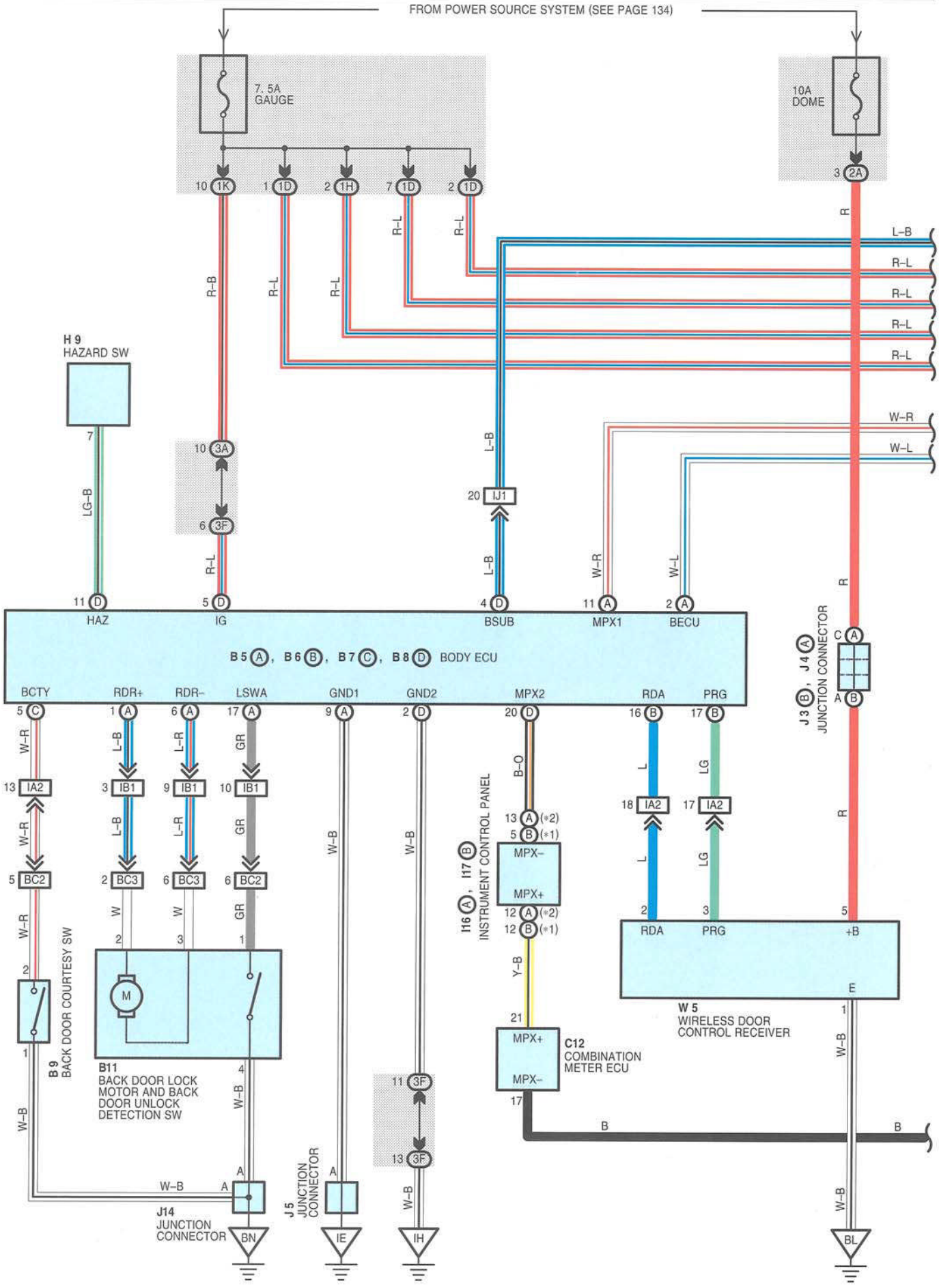
: GROUND POINTS

Code	See Page	Ground Points Location
IE	108 (LHD)	Cowl Side Panel LH
IF	108 (LHD)	Dash Panel Center
IG	108 (LHD)	Cowl Side Panel RH
IH	108 (LHD)	Instrument Panel Brace RH
BJ	112 (LHD)	Under the Left Center Pillar
BK	112 (LHD)	Under the Right Center Pillar
BL	112 (LHD)	Left Rear Quarter Panel
BM	112 (LHD)	Under the Rear RH Seat
BN	112 (LHD)	Back Panel Center

: SPLICE POINTS

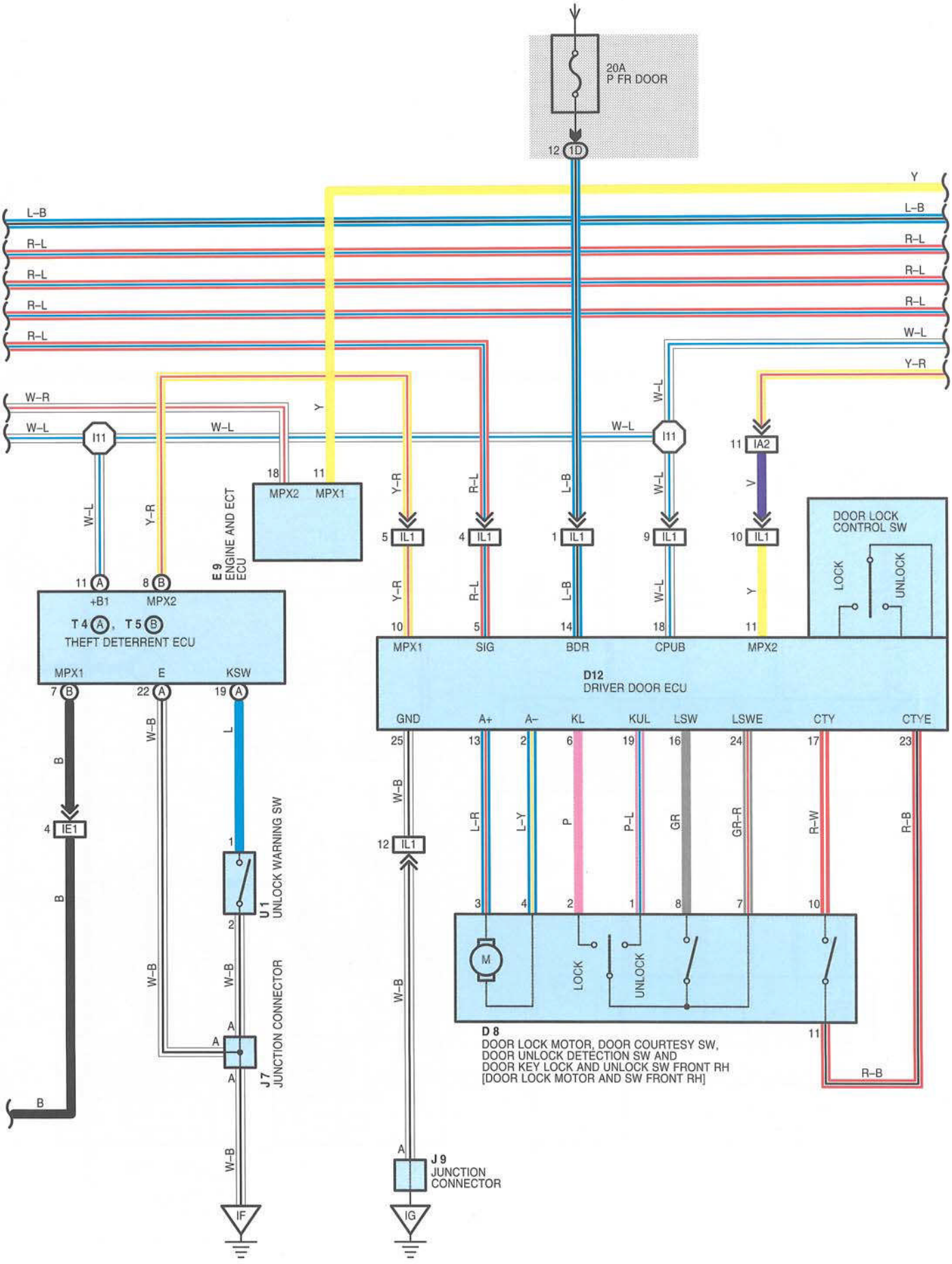
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	110 (LHD)	Cowl Wire	B6	112 (LHD)	Floor Wire
I5			B8		
I12			B11		
B1	112 (LHD)	Rear Door RH Wire			

DOUBLE LOCKING (RHD)

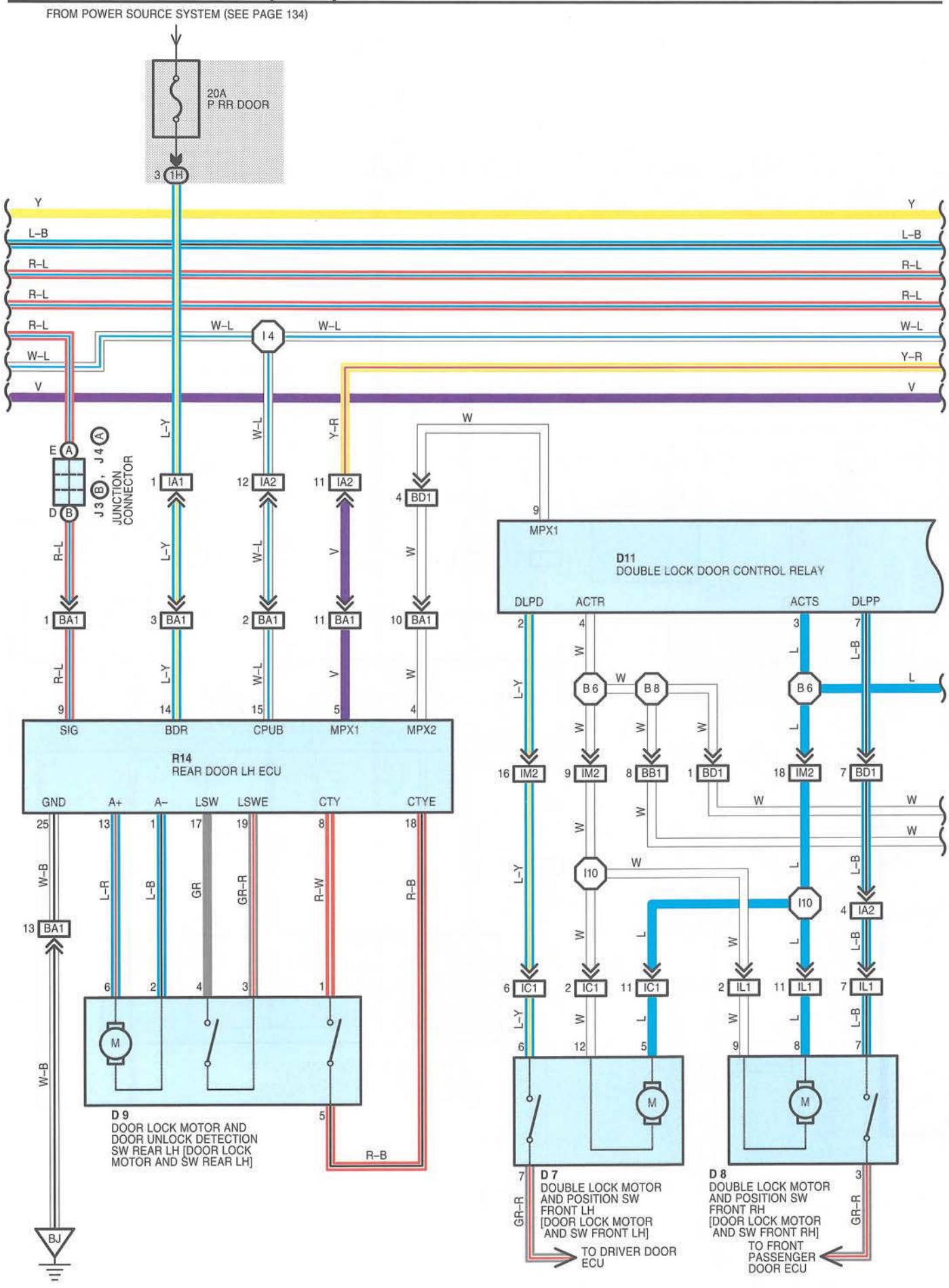


* 1 : EUROPE
* 2 : EXCEPT EUROPE

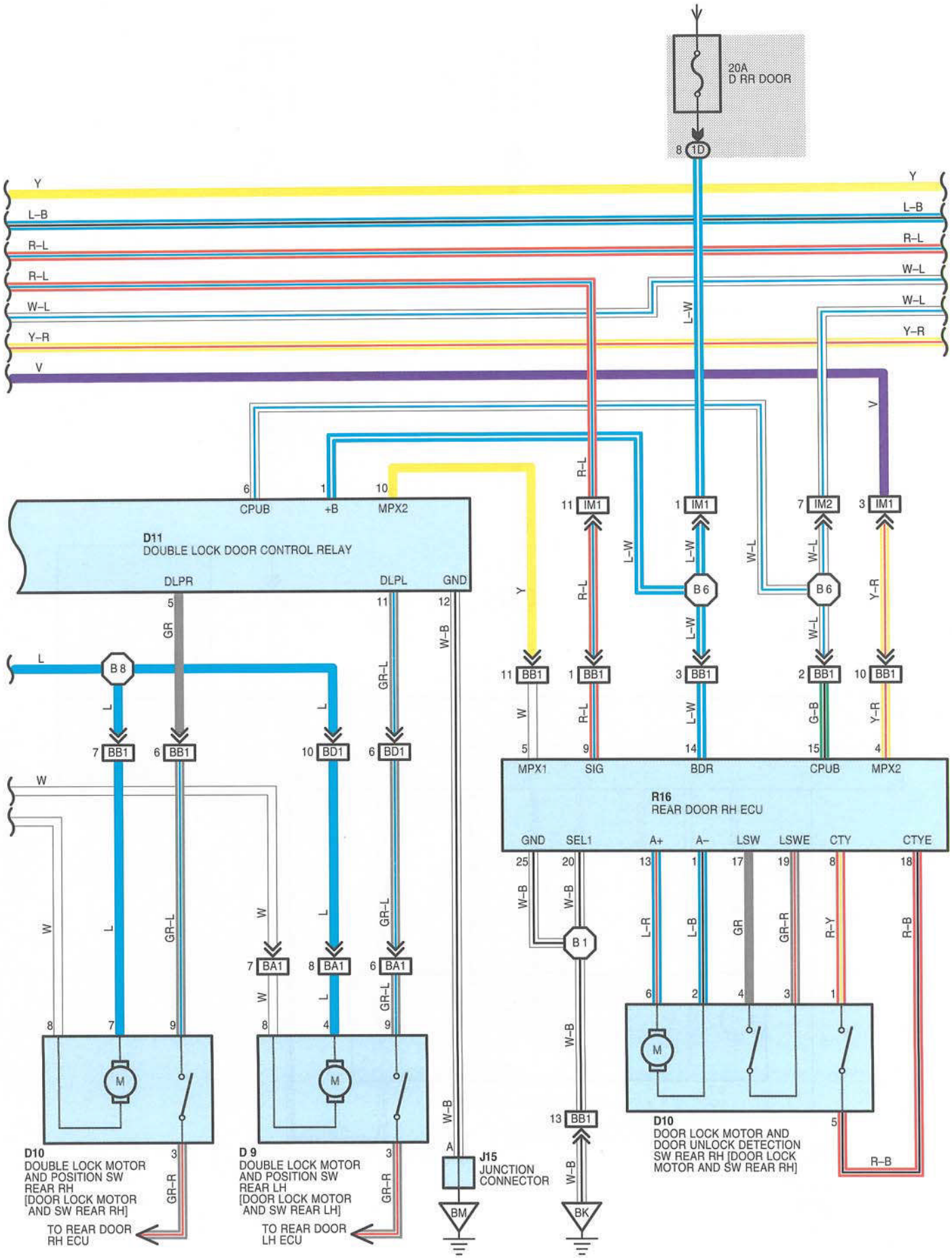
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



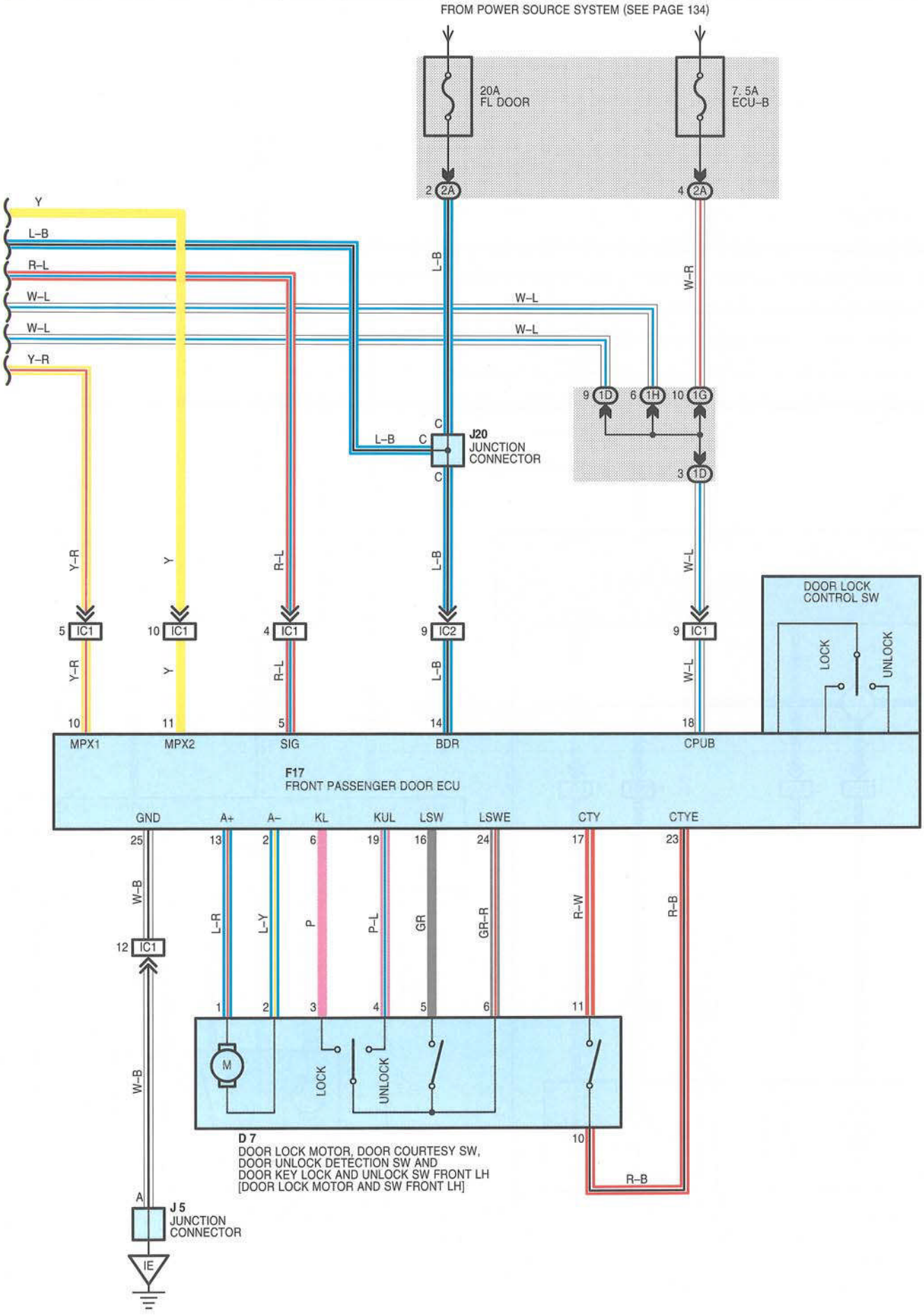
DOUBLE LOCKING (RHD)



FROM POWER SOURCE SYSTEM (SEE PAGE 134)



DOUBLE LOCKING (RHD)



SERVICE HINTS

D11 DOUBLE LOCK DOOR CONTROL RELAY

1-GROUND : Always approx. **12** volts
6-GROUND : Always approx. **12** volts
12-GROUND : Always continuity

D7 DOUBLE LOCK MOTOR FRONT LH

5-GROUND : Approx. **12** volts with the double lock motor at lock operate
12-GROUND : Approx. **12** volts with the double lock motor at unlock operate

D8 DOUBLE LOCK MOTOR FRONT RH

8-GROUND : Approx. **12** volts with the double lock motor at lock operate
9-GROUND : Approx. **12** volts with the double lock motor at unlock operate

D9 DOUBLE LOCK MOTOR REAR LH

4-GROUND : Approx. **12** volts with the double lock motor at lock operate
8-GROUND : Approx. **12** volts with the double lock motor at unlock operate

D10 DOUBLE LOCK MOTOR REAR RH

7-GROUND : Approx. **12** volts with the double lock motor at lock operate
8-GROUND : Approx. **12** volts with the double lock motor at unlock operate

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B5	A	100 (RHD)	D11		102 (RHD)	J9		101 (RHD)
B6	B	100 (RHD)	D12		102 (RHD)	J14		102 (RHD)
B7	C	100 (RHD)	E9		100 (RHD)	J15		102 (RHD)
B8	D	100 (RHD)	F17		102 (RHD)	J20		101 (RHD)
B9		102 (RHD)	H9		101 (RHD)	R14		103 (RHD)
B11		102 (RHD)	I16	A	101 (RHD)	R16		103 (RHD)
C12		100 (RHD)	I17	B	101 (RHD)	T4	A	101 (RHD)
D7		102 (RHD)	J3	B	101 (RHD)	T5	B	101 (RHD)
D8		102 (RHD)	J4	A	101 (RHD)	U1		101 (RHD)
D9		102 (RHD)	J5		101 (RHD)	W5		103 (RHD)
D10		102 (RHD)	J7		101 (RHD)			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1K	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		

DOUBLE LOCKING (RHD)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB1	118 (RHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
IC1	118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2		
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IJ1	120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IM2		
BA1	122 (RHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC2	122 (RHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BC3		
BD1	122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

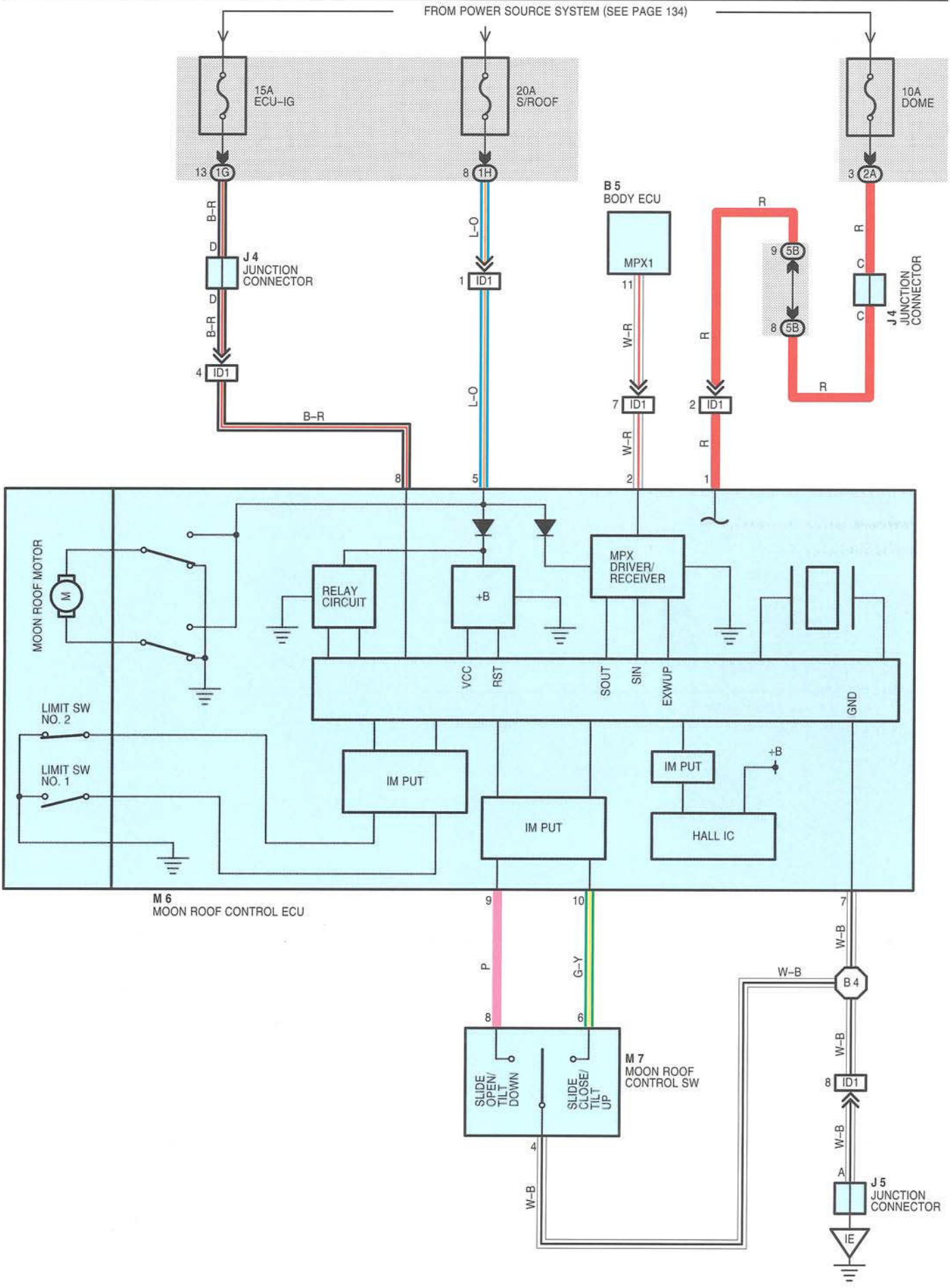
: GROUND POINTS

Code	See Page	Ground Points Location
IE	118 (RHD)	Cowl Side Panel LH
IF	118 (RHD)	Dash Panel Center
IG	118 (RHD)	Cowl Side Panel RH
IH	118 (RHD)	Instrument Panel Brace RH
BJ	122 (RHD)	Under the Left Center Pillar
BK	122 (RHD)	Under the Right Center Pillar
BL	122 (RHD)	Left Rear Quarter Panel
BM	122 (RHD)	Under the Rear RH Seat
BN	122 (RHD)	Back Panel Center

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	120 (RHD)	Cowl Wire	B1	122 (RHD)	Rear Door RH Wire
I10			B6	122 (RHD)	Floor Wire
I11			B8		

MOON ROOF


FROM POWER SOURCE SYSTEM (SEE PAGE 134)
15A ECU-IG
20A S/ROOF
10A DOME
13 1G
8 1H
3 2A
B-R
L-O
R
B 5 BODY ECU
MPX1
J 4 JUNCTION CONNECTOR
9 5B
8 5B
C
W-R
ID1
MOON ROOF MOTOR
RELAY CIRCUIT
+B
MPX DRIVER/ RECEIVER
VCC
RST
SOUT
SIN
EXWUP
GND
LIMIT SW NO. 2
LIMIT SW NO. 1
IM PUT
HALL IC
M 6 MOON ROOF CONTROL ECU
P
G-Y
W-B
B 4
M 7 MOON ROOF CONTROL SW
SLIDE OPEN/ TILT DOWN
SLIDE CLOSE/ TILT UP
J 5 JUNCTION CONNECTOR
IE

SYSTEM OUTLINE

In this system, the HALL IC in the moon roof control ECU detects the changes in motor rotation, and allows opening/closing, tilting up/down of the moon roof by one touch operation. In addition, catching prevention function during moon roof operation is also provided. Voltage is constantly applied from S/ROOF fuse to TERMINAL 5 of the moon roof control ECU, and from DOME fuse to TERMINAL 1 of the moon roof control ECU. When the ignition SW is turned on, the current flows from ECU-IG fuse to TERMINAL 8 of the moon roof control ECU.

1. SLIDE OPEN OPERATION

When the moon roof is fully closed (Limit SW No.1 off, limit SW No.2 on), and the moon roof control SW is kept pressed to OPEN position for approximately 0.3 seconds or longer, a signal is input from TERMINAL 8 of the moon roof control SW to TERMINAL 9 of the moon roof control ECU. This activates the relay and rotates the motor to open the moon roof automatically. Then, when the limit SW No.1 is turned on and then turned off again, the pulse signal sent from the HALL IC activates the relay, and if the pulse signal is not input for 0.5 seconds or longer, it determines that the moon roof is fully open, and stops the motor. If other operation SW or the open SW is operated while the moon roof is being opened, the relay is activated to stop the moon roof operation. In addition, when the moon roof is tilted up, the slide open operation does not function.

2. SLIDE CLOSE OPERATION

When the moon roof is fully opened (Limit SW No.1 off, limit SW No.2 off), and the moon roof control SW is kept pressed to CLOSE position for approximately 0.3 seconds or longer, a signal is input from TERMINAL 6 of the moon roof control SW to TERMINAL 10 of the moon roof control ECU. This activates the relay and rotates the motor to close the moon roof automatically. Then, when the limit SW No.2 is turned on, the pulse signal sent from the HALL IC activates the relay, and determines that the moon roof is closed fully, and stops the motor. If other operation SW or the close SW is operated while the moon roof is being closed, the relay is activated to stop the moon roof operation.

3. TILT UP OPERATION

When the moon roof is fully closed (Limit SW No.1 off, limit SW No.2 on), and the moon roof control SW is kept pressed to UP position for approximately 0.3 seconds or longer, a signal is input from TERMINAL 6 of the moon roof control SW to TERMINAL 10 of the moon roof control ECU. This activates the relay and rotates the motor to tilt up the moon roof automatically. If the pulse signal is not input from the HALL IC for 0.5 seconds or longer, it determines that the moon roof is fully tilted up, and stops the motor. If other operation SW or the tilt up SW is operated while the moon roof is being tilted up, the relay is activated to stop the moon roof operation. In addition, when the moon roof is opened, the tilt up operation does not function.

4. TILT DOWN OPERATION

When the moon roof is fully tilted up (Limit SW No.1 on, limit SW No.2 on). and the moon roof control SW is kept pressed to DOWN position for approximately 0.3 seconds or longer, a signal is input from TERMINAL 8 of the moon roof control SW to TERMINAL 9 of the moon roof control ECU. This activates the relay and rotates the motor to tilt down the moon roof automatically. Then, when the limit SW No.1 is turned off, the pulse signal sent from the HALL IC activates the relay, and determines that the moon roof is closed fully, and stops the motor. If other operation SW or the tilt down SW is operated while the moon roof is being tilted down, the relay is activated to stop the moon roof operation.

5. CATCHING PREVENTION FUNCTION

During slide close or tilt down operation, if the relay detects a catching load from the changes in the rotation of the motor, the operation is stopped, and the motor is rotated in the reverse direction.

* Slide Close Operation
  The moon roof is moved approximately 200 mm in the reverse direction (Slide open) after a catching load has been detected. However, if the full open position is detected before moving approximately 200 mm, the reverse movement is stopped.
* Tilt Down Operation
  If a catching load is detected, the moon roof is moved in the reverse direction until fully tilted up.

6. KEY OFF MOON ROOF OPERATION

Within approximately 45 sec. after the ignition SW is turned from on to off, the moon roof can be operated. However, if the driver or front passenger door is opened during this period of time, the moon roof operation is stopped even through 45 sec. have not elapsed.

MOON ROOF

7. MOON ROOF OPERATION LINKED WITH TRANSMITTER

When the unlock SW of the ignition key transmitter is kept pressed for 1.5 seconds or longer, the slide open/tilt up operation of the moon roof functions, through communication control.

8. MOON ROOF OPERATION LINKED WITH DOOR KEY LOCK AND UNLOCK SW

When the ignition key is inserted into the driver door key cylinder and kept turned to lock or unlock position for 1.5 seconds or longer, the slide open/close operation of the moon roof functions, through communication control.

9. FAIL-SAFE FUNCTION

If the moon roof is operated continuously in the same direction, the current flowing to the motor is cut off when the time shown below has elapsed after the motor operation has been started.

* Slide open/ close operation by the moon roof SW Approximately 20 sec.
* Tilt up/down operation by the moon roof SW Approximately 2 sec.
* Slide open operation for reverse movement in case of catching prevention function Approximately 20 sec.
* Tilt up operation for reverse movement in case of catching prevention function Approximately 2 sec.

SERVICE HINTS

M6 MOON ROOF CONTROL ECU

1-GROUND : Always approx. **12** volts
5-GROUND : Always approx. **12** volts
8-GROUND : Approx. **12** volts with the ignition SW at **ON** position
7-GROUND : Always continuity

M7 MOON ROOF CONTROL SW

8-4 : Closed with the moon roof control SW at **SLIDE OPEN** or **TILT DOWN** position
6-4 : Closed with the moon roof control SW at **SLIDE CLOSE** or **TILT UP** position
4-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5	92 (LHD)	J5	93 (LHD)	M7	94 (LHD)
	100 (RHD)		101 (RHD)		102 (RHD)
J4	93 (LHD)	M6	94 (LHD)		
	101 (RHD)		102 (RHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1H	78 (LHD)	
	80 (RHD)	
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	108 (LHD)	Roof Wire and Cowl Wire (Left Side of Instrument Panel)
	118 (RHD)	

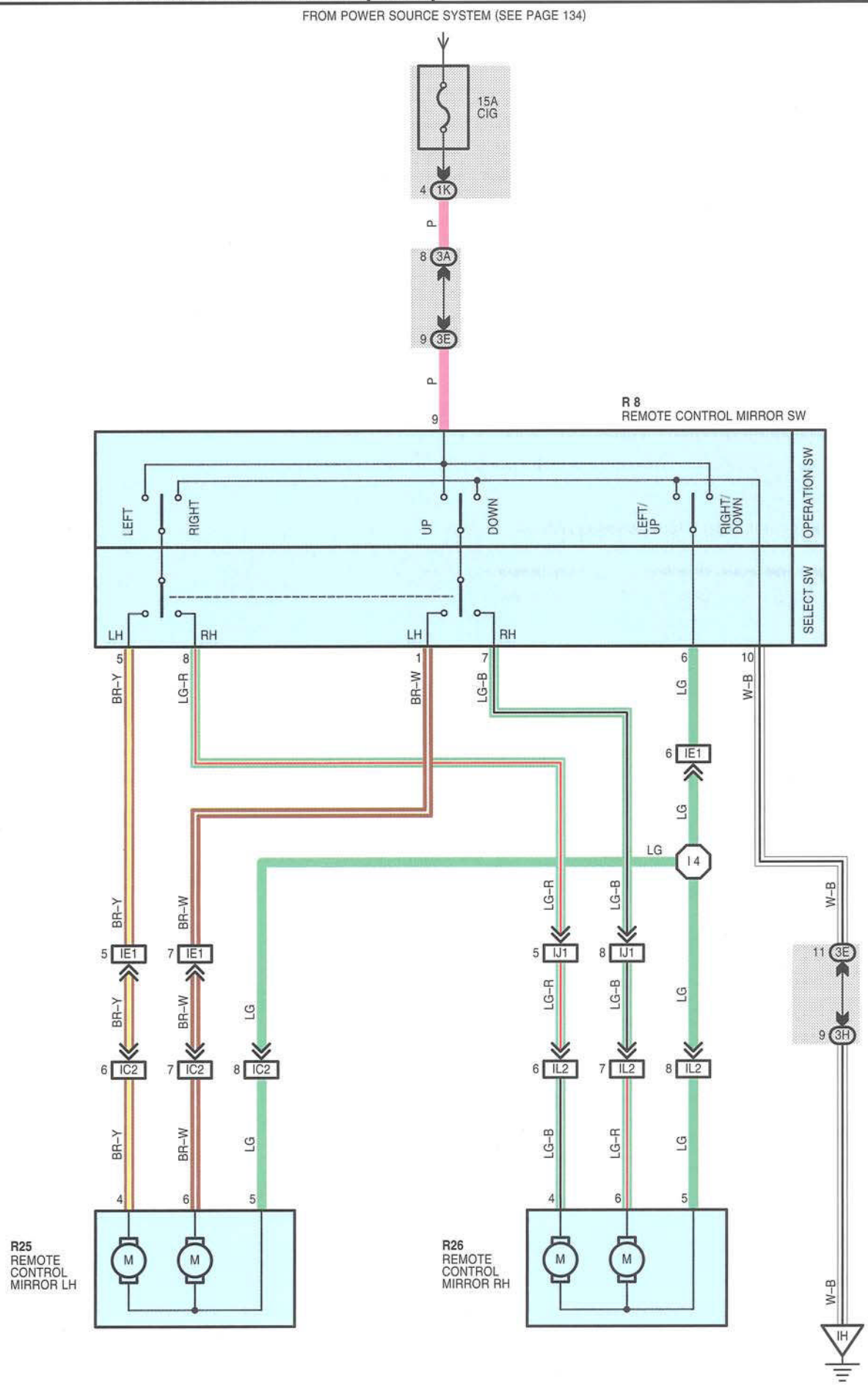
: GROUND POINTS

Code	See Page	Ground Points Location
IE	108 (LHD)	Cowl Side Panel LH
	118 (RHD)	

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B4	112 (LHD)	Roof Wire	B4	122 (RHD)	Roof Wire

REMOTE CONTROL MIRROR (LHD)



SERVICE HINTS

R8 REMOTE CONTROL MIRROR SW

6-10 : Continuity with the operation SW at **UP** or **LEFT** position
9-6 : Continuity with the operation SW at **DOWN** or **RIGHT** position
9-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
10-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
R8	93 (LHD)	R25	95 (LHD)	R26	95 (LHD)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
3H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL2	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)

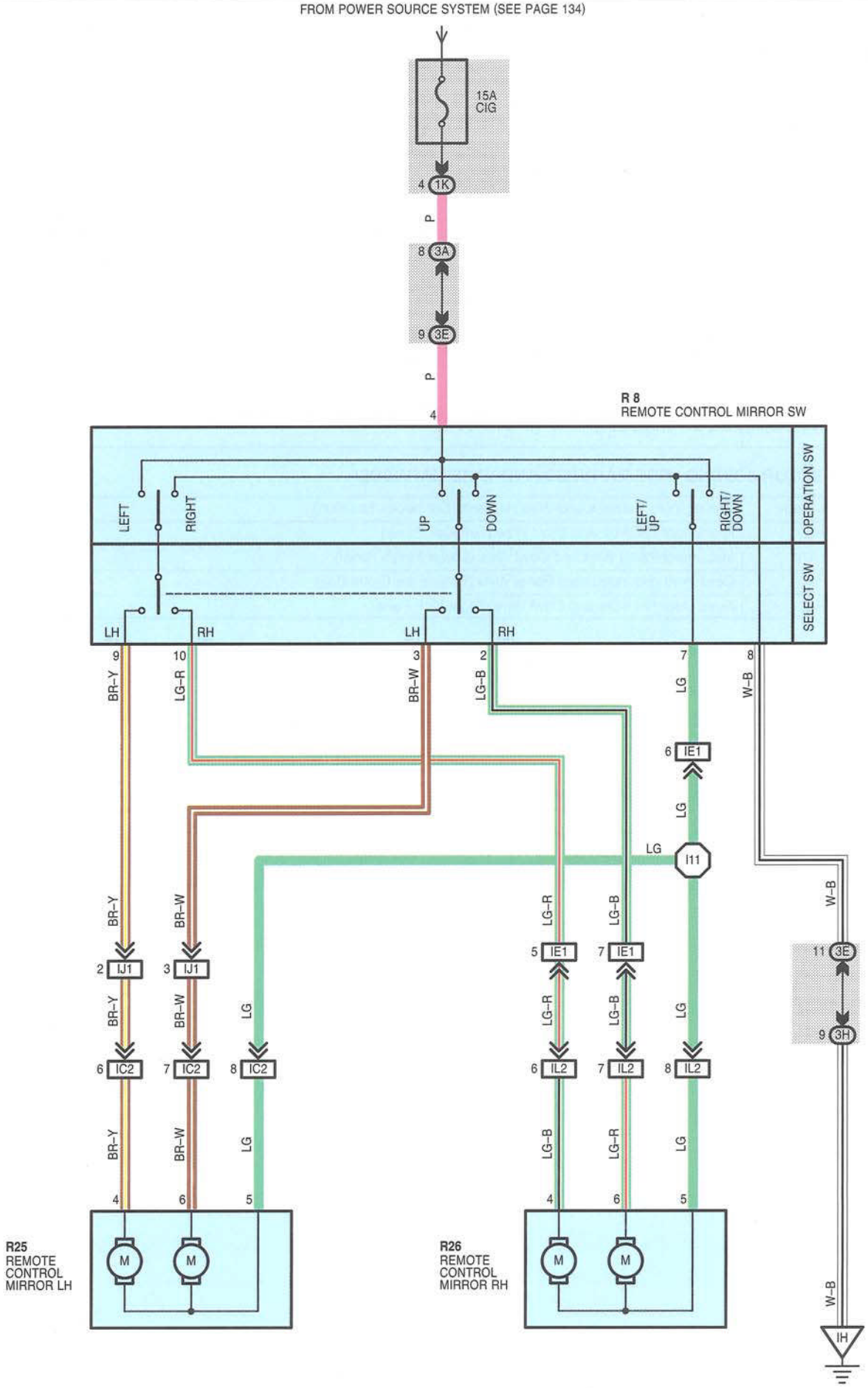
: GROUND POINTS

Code	See Page	Ground Points Location
IH	108 (LHD)	Instrument Panel Brace RH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	110 (LHD)	Cowl Wire			

REMOTE CONTROL MIRROR (RHD)



SERVICE HINTS

R8 REMOTE CONTROL MIRROR SW

7–8 : Continuity with the operation SW at **UP** or **LEFT** position
4–7 : Continuity with the operation SW at **DOWN** or **RIGHT** position
4–GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
8–GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
R8	101 (RHD)	R25	103 (RHD)	R26	103 (RHD)

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
3H		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IJ1	120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL2	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)

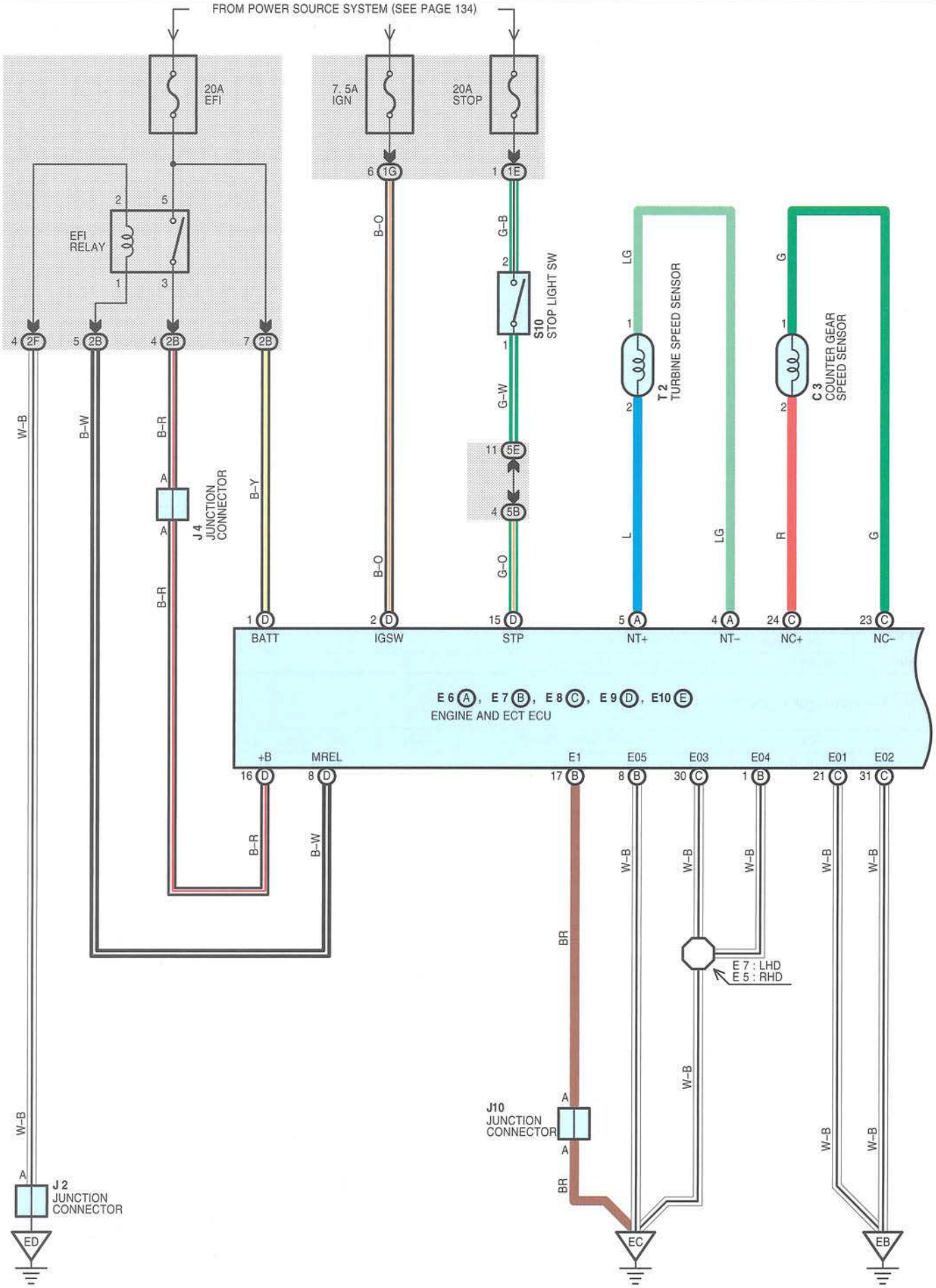
▽ : GROUND POINTS

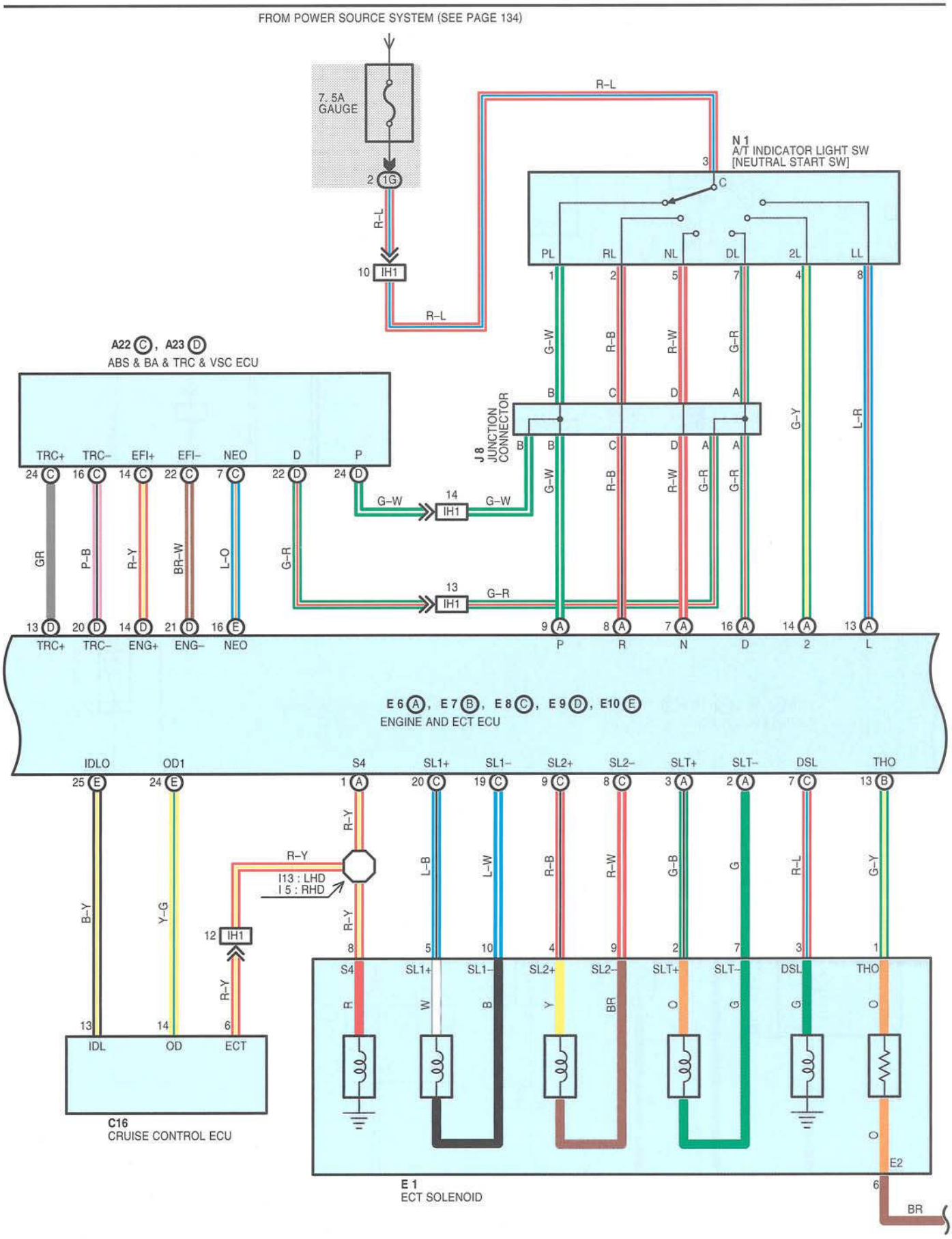
Code	See Page	Ground Points Location
IH	118 (RHD)	Instrument Panel Brace RH

⬡ : SPLICE POINTS

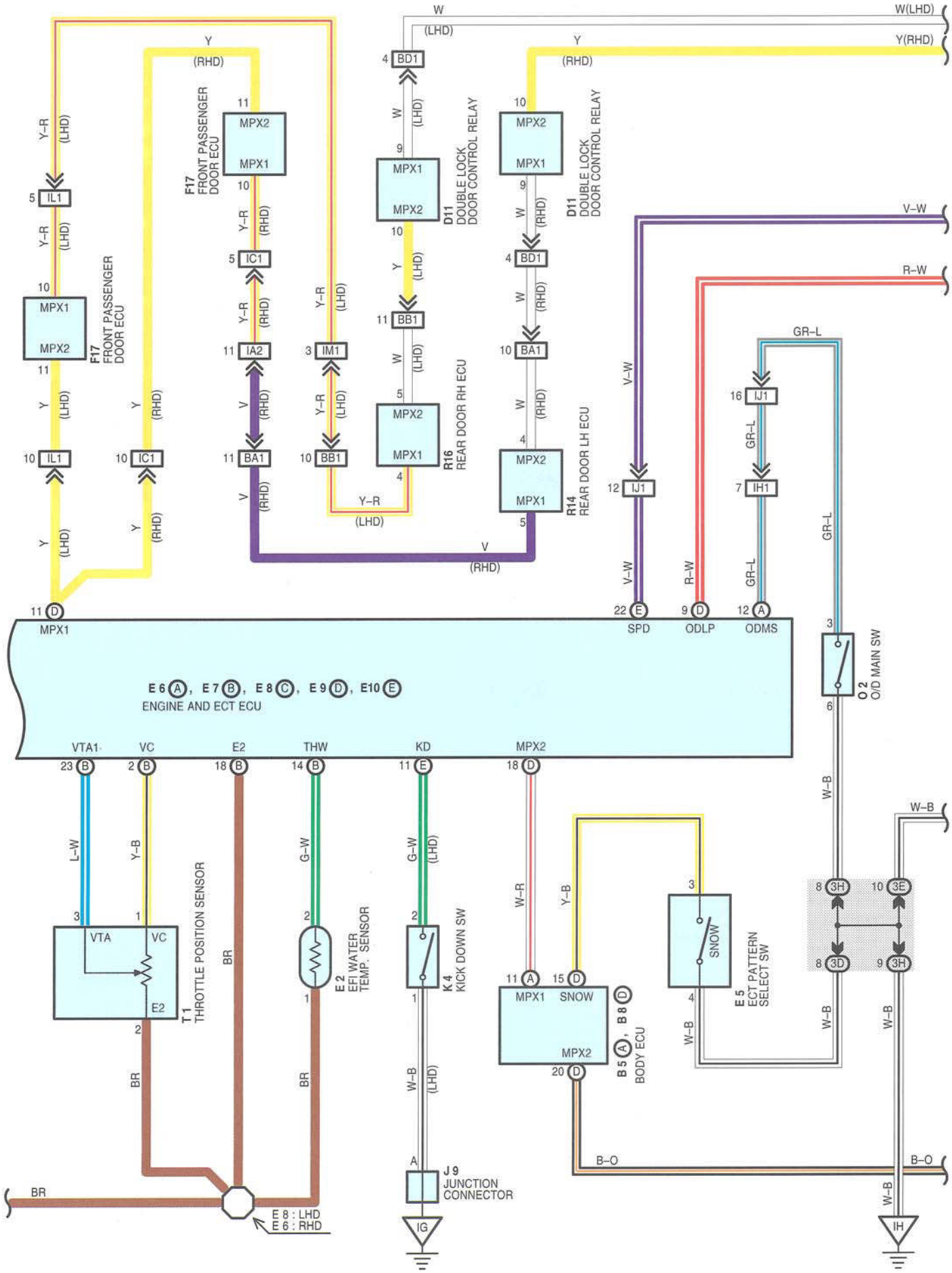
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I11	120 (RHD)	Cowl Wire			

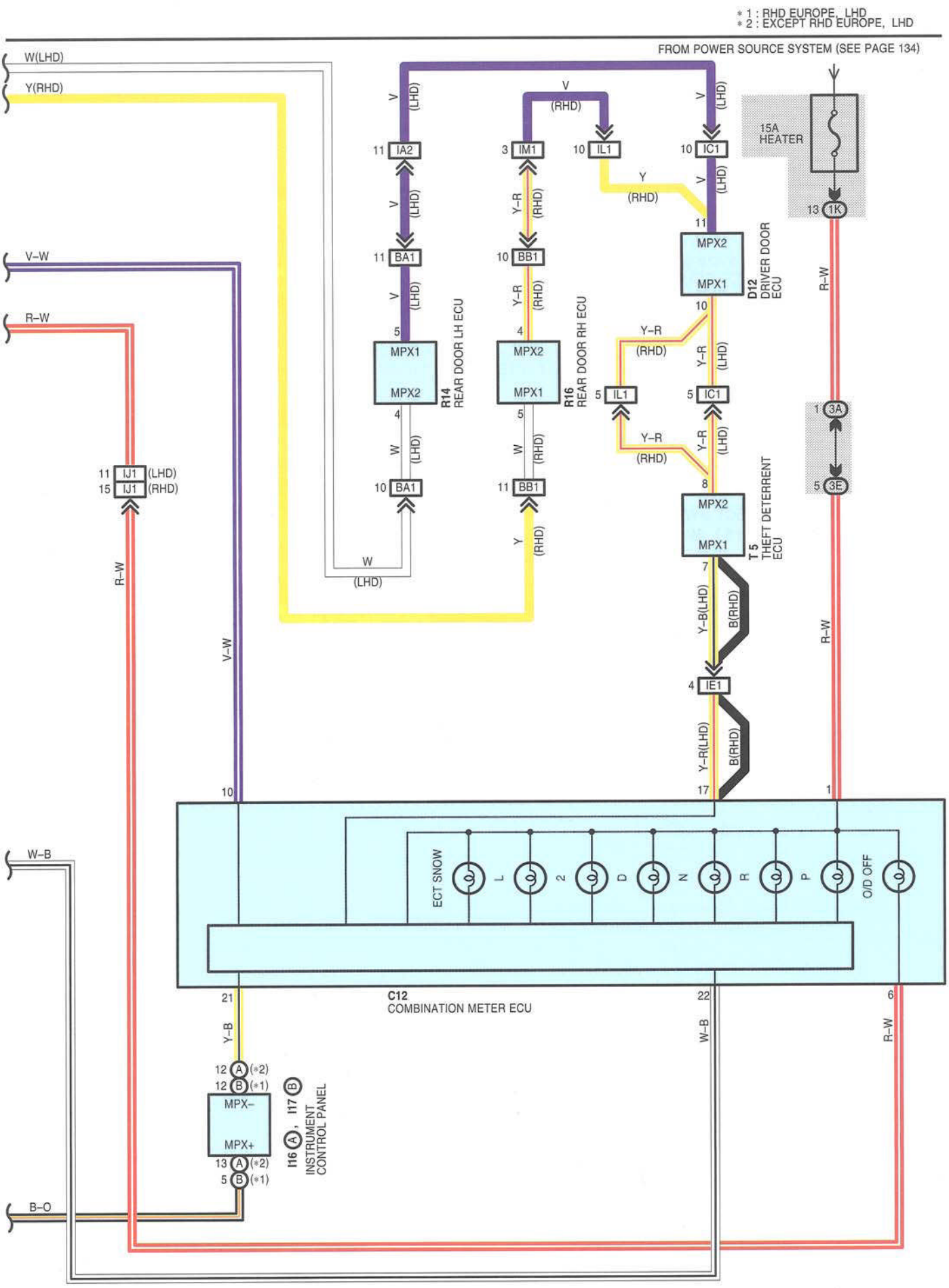
ECT AND A/T INDICATOR




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
7.5A GAUGE
2 1G
R-L
10 IH1
R-L
N 1
A/T INDICATOR LIGHT SW
[NEUTRAL START SW]
3 C
PL RL NL DL 2L LL
1 2 5 7 4 8
G-W R-B R-W G-R G-Y L-R
B C D A
J8 JUNCTION CONNECTOR
B B C D A A
G-W R-B R-W G-R G-R
A22 C, A23 D
ABS & BA & TRC & VSC ECU
TRC+ TRC- EFI+ EFI- NEO D P
24 C 16 C 14 C 22 C 7 C 22 D 24 D
G-W
14 IH1
G-W
GR P-B R-Y BR-W L-O G-R
13 IH1 G-R
13 D 20 D 14 D 21 D 16 E 9 A 8 A 7 A 16 A 14 A 13 A
TRC+ TRC- ENG+ ENG- NEO P R N D 2 L
E6 A, E7 B, E8 C, E9 D, E10 E
ENGINE AND ECT ECU
IDLO OD1 S4 SL1+ SL1- SL2+ SL2- SLT+ SLT- DSL THO
25 E 24 E 1 A 20 C 19 C 9 C 8 C 3 A 2 A 7 C 13 B
B-Y Y-G R-Y L-B L-W R-B R-W G-B G R-L G-Y
R-Y
I13 : LHD
I 5 : RHD
R-Y
12 IH1
R-Y
8 5 10 4 9 2 7 3 1
S4 SL1+ SL1- SL2+ SL2- SLT+ SLT- DSL THO
R W B Y BR O G G O
O
E2
6
BR
13 14 6
IDL OD ECT
C16
CRUISE CONTROL ECU
E 1
ECT SOLENOID

ECT AND A/T INDICATOR




* 1 : RHD EUROPE, LHD
* 2 : EXCEPT RHD EUROPE, LHD
FROM POWER SOURCE SYSTEM (SEE PAGE 134)
W(LHD)
Y(RHD)
V-W
R-W
W-B
B-O
15A HEATER
13 1K
R-W
1 3A
5 3E
R-W
11 IJ1 (LHD)
15 IJ1 (RHD)
R-W
V-W
10
11 IA2
V (LHD)
11 BA1
V (LHD)
5 MPX1
MPX2
R14 REAR DOOR LH ECU
4
W (LHD)
10 BA1
W
(LHD)
3 IM1
V (RHD)
10 IL1
Y (RHD)
Y-R (RHD)
10 BB1
Y-R (RHD)
4 MPX2
MPX1
R16 REAR DOOR RH ECU
5
W (RHD)
11 BB1
Y (RHD)
10 IC1
V (LHD)
11 MPX2
MPX1
D12 DRIVER DOOR ECU
10
Y-R (RHD)
Y-R (LHD)
5 IL1
5 IC1
Y-R (RHD)
Y-R (LHD)
8 MPX2
MPX1
T5 THEFT DETERRENT ECU
7
Y-B(LHD)
B(RHD)
4 IE1
Y-R(LHD)
B(RHD)
17
1
ECT SNOW
L
2
D
N
R
P
O/D OFF
C12
COMBINATION METER ECU
21
22
6
Y-B
W-B
R-W
12 A (*2)
12 B (*1)
MPX-
MPX+
13 A (*2)
5 B (*1)
I16 A, I17 B
INSTRUMENT CONTROL PANEL

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 ECT, however, electrically controls the line pressure, throttle pressure, lock-up pressure and accumulator pressure etc. through the solenoid valve. The ECT 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

During driving the engine warm up condition signal is input from EFI water temp. sensor to TERMINAL THW of the engine and ECT ECU, and the vehicle speed signal is input from the ABS speed sensor to ABS & BA & TRC & VSC ECU, and are sent to the engine and ECT ECU through communication control. At the same time, the throttle valve opening signal is sent from the throttle position sensor to the TERMINAL VTA1 of the engine and ECT ECU, as the throttle angle signal.

2. LOCK-UP OPERATION

When the engine and ECT ECU decides based on each signal that the lock-up condition has been met, the current flows through TERMINAL DSL of the engine and ECT ECU to TERMINAL 3 of the ECT solenoid to GROUND.

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 and ECT ECU. The engine and ECT ECU operates and cuts the current to the solenoid to release lock-up.

SERVICE HINTS

E5 ECT PATTERN SELECT SW

3-4 : Only closed with the select SW at **SNOW** position

E6 (A), E7 (B), E8 (C), E9 (D), E10 (E) ENGINE AND ECT ECU

BATT-E1 : Always approx. **12** volts
+B-E1 : Approx. **12** volts with the ignition SW **ON** or **ST** position
MREL-E1 : Approx. **12** volts with the ignition SW **ON** or **ST** position

N1 A/T INDICATOR SW [NEUTRAL START SW]

3-1 : Closed with the shift lever in **P** position
3-2 : Closed with the shift lever in **R** position
3-5 : Closed with the shift lever in **N** position
3-7 : Closed with the shift lever in **D** position
3-4 : Closed with the shift lever in **2** position
3-8 : Closed with the shift lever in **L** position

○ : PARTS LOCATION

Code		See Page
A22	C	92 (LHD)
		100 (RHD)
A23	D	92 (LHD)
		100 (RHD)
B5	A	92 (LHD)
		100 (RHD)
B8	D	92 (LHD)
		100 (RHD)
C3		90 (LHD)
		98 (RHD)
C12		92 (LHD)
		100 (RHD)
C16		92 (LHD)
		100 (RHD)
D11		94 (LHD)
		102 (RHD)
D12		94 (LHD)
		102 (RHD)
E1		90 (LHD)
		98 (RHD)
E2		90 (LHD)
		98 (RHD)

Code		See Page
E5		92 (LHD)
		100 (RHD)
E6	A	92 (LHD)
		100 (RHD)
E7	B	92 (LHD)
		100 (RHD)
E8	C	92 (LHD)
		100 (RHD)
E9	D	92 (LHD)
		100 (RHD)
E10	E	92 (LHD)
		100 (RHD)
F17		94 (LHD)
		102 (RHD)
I16	A	101 (RHD)
I17	B	93 (LHD)
		101 (RHD)
J2		91 (LHD)
		99 (RHD)
J4		93 (LHD)
		101 (RHD)
J8		93 (LHD)

Code	See Page
J8	101 (RHD)
J9	93 (LHD)
	101 (RHD)
J10	93 (LHD)
	101 (RHD)
K4	93 (LHD)
N1	91 (LHD)
	99 (RHD)
O2	93 (LHD)
	101 (RHD)
R14	95 (LHD)
	103 (RHD)
R16	95 (LHD)
	103 (RHD)
S10	93 (LHD)
	101 (RHD)
T1	91 (LHD)
	99 (RHD)
T2	91 (LHD)
	99 (RHD)
T5	93 (LHD)
	101 (RHD)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1G	78 (LHD)	
	80 (RHD)	
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
2B	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2F	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3E		
3H		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5E		

ECT AND A/T INDICATOR

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	108 (LHD) 118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC1	108 (LHD) 118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IE1	108 (LHD) 118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IH1	110 (LHD) 120 (RHD)	Engine Wire and Cowl Wire (Behind the Glove Box)
IJ1	110 (LHD) 120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	110 (LHD) 120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	110 (LHD) 120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
BA1	112 (LHD) 122 (RHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD) 122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BD1	112 (LHD) 122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

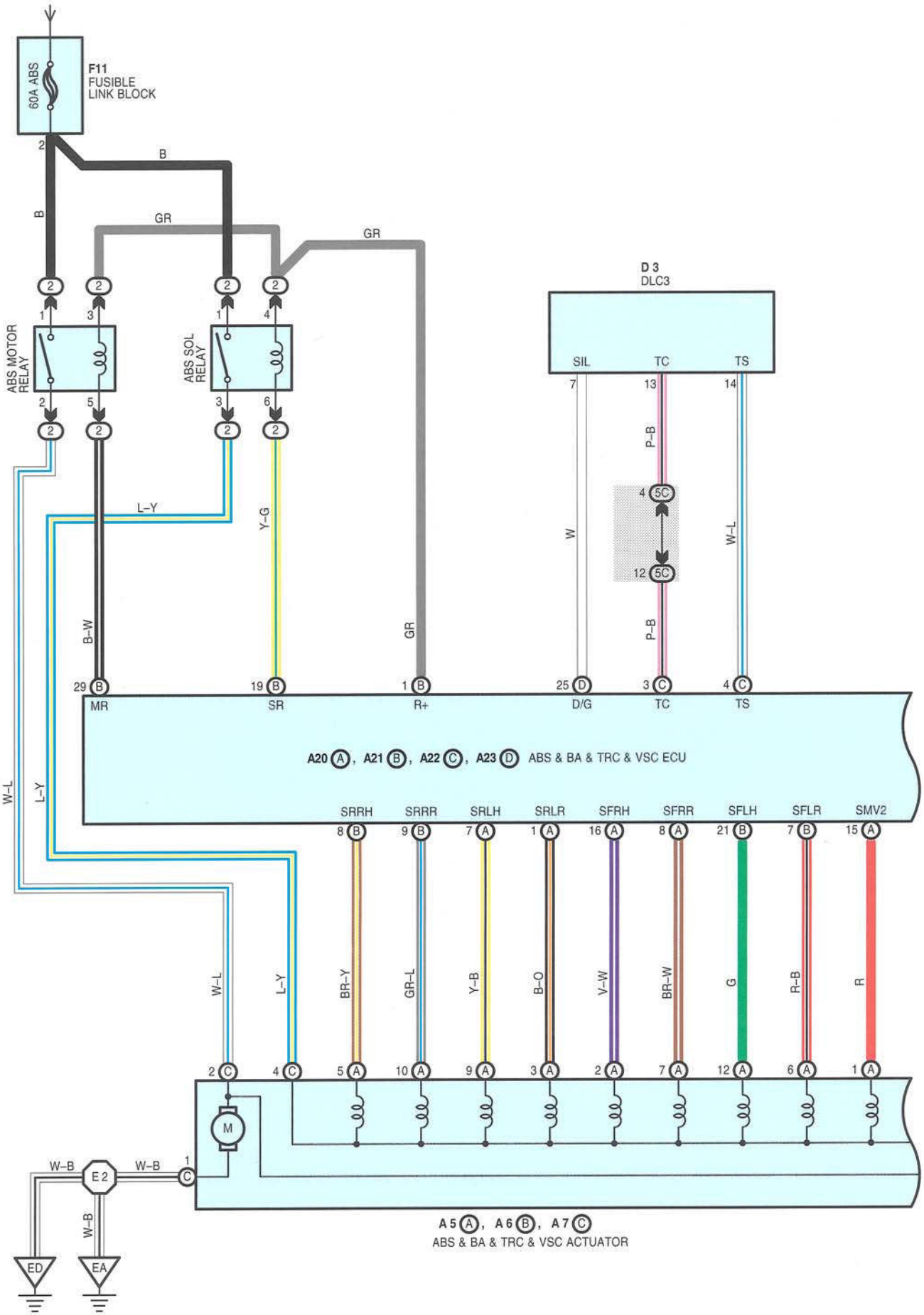
: GROUND POINTS

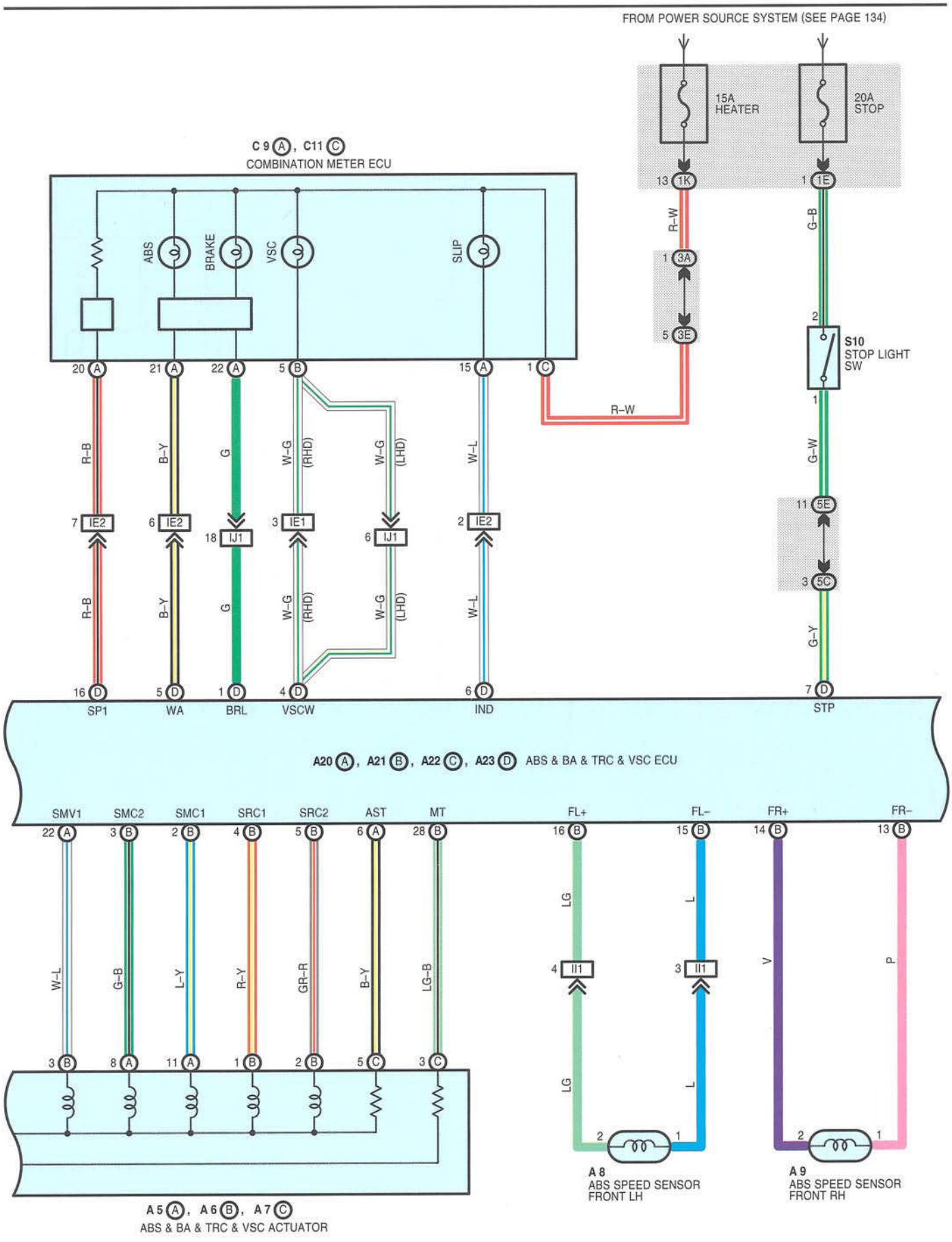
Code	See Page	Ground Points Location
EB	106 (LHD) 116 (RHD)	Surge Tank RH
EC	106 (LHD) 116 (RHD)	Rear Side of Surge Tank
ED	106 (LHD) 116 (RHD)	Right Radiator Side Support
IG	108 (LHD) 118 (RHD)	Cowl Side Panel RH
IH	108 (LHD) 118 (RHD)	Instrument Panel Brace RH

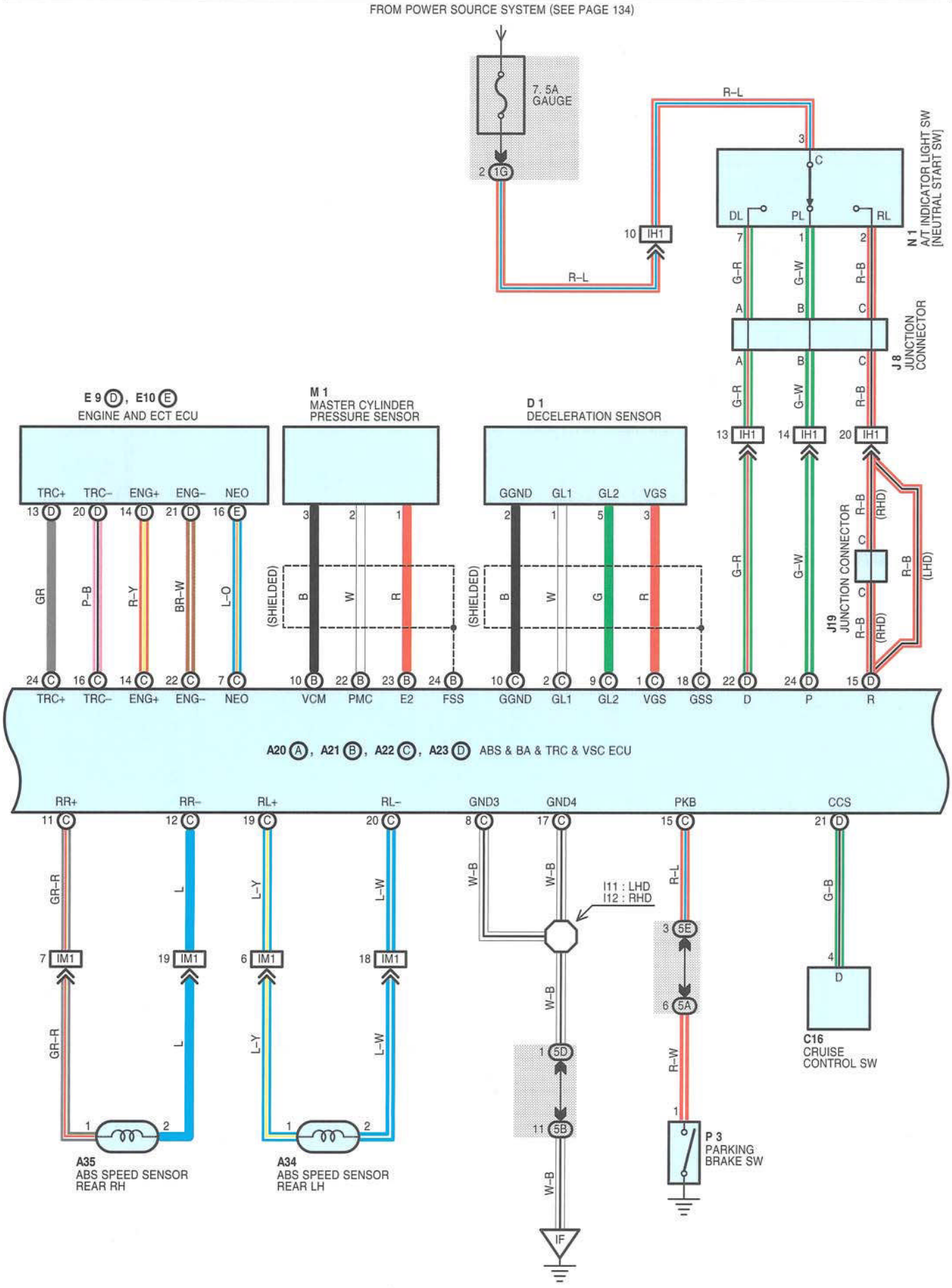
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E5	116 (RHD)	Engine Wire	E8	106 (LHD)	Engine Wire
E6			I5	120 (RHD)	
E7	106 (LHD)		I13	110 (LHD)	

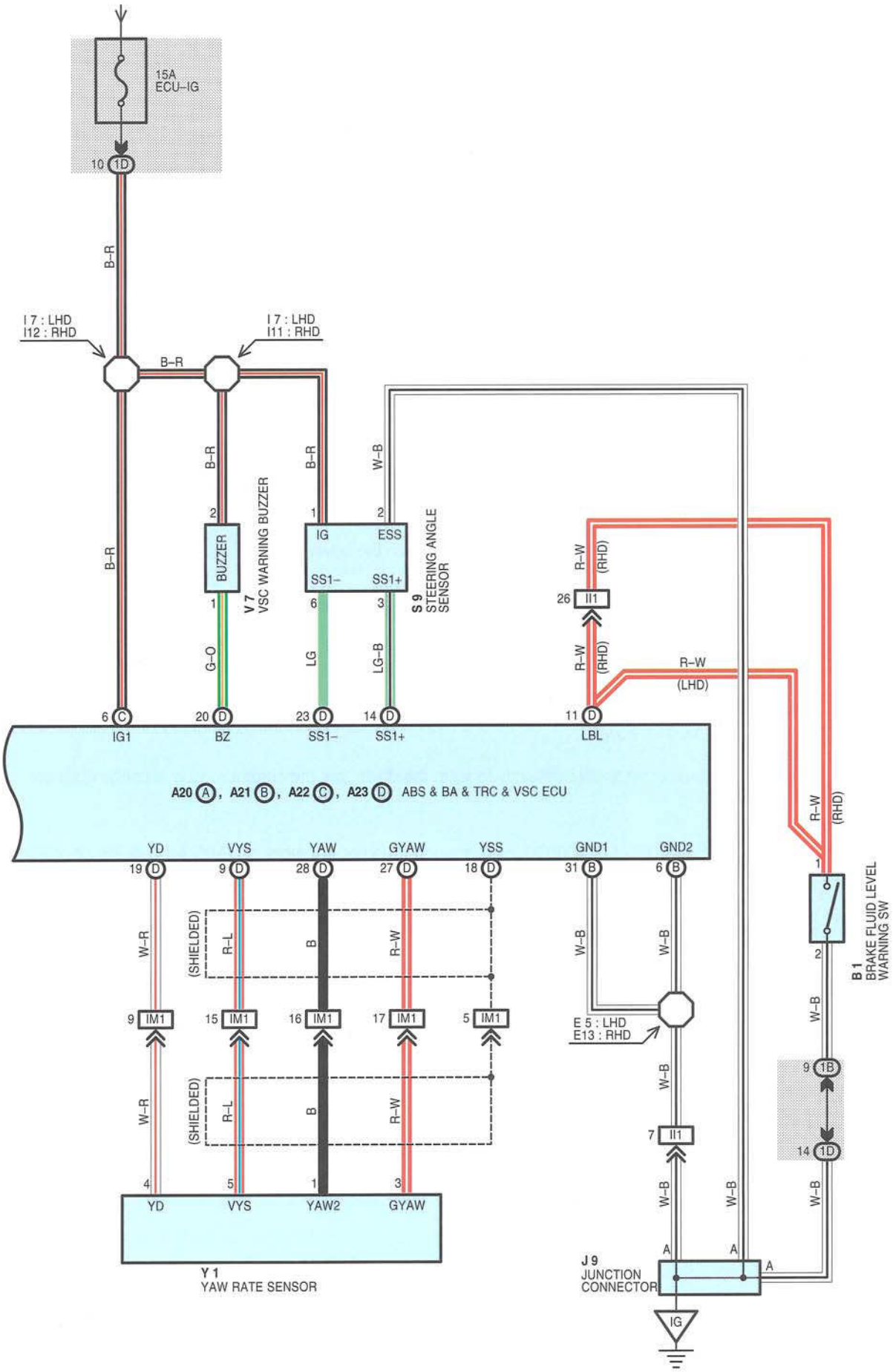
FROM POWER SOURCE SYSTEM (SEE PAGE 134)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
15A HEATER
20A STOP
C9 (A), C11 (C)
COMBINATION METER ECU
ABS
BRAKE
VSC
SLIP
S10
STOP LIGHT SW
R-W
G-B
G-W
G-Y
R-B
B-Y
G
W-G (RHD)
W-G (LHD)
W-L
SP1
WA
BRL
VSCW
IND
STP
A20 (A), A21 (B), A22 (C), A23 (D) ABS & BA & TRC & VSC ECU
SMV1
SMC2
SMC1
SRC1
SRC2
AST
MT
FL+
FL-
FR+
FR-
W-L
G-B
L-Y
R-Y
GR-R
B-Y
LG-B
LG
L
V
P
A8
ABS SPEED SENSOR FRONT LH
A9
ABS SPEED SENSOR FRONT RH
A5 (A), A6 (B), A7 (C)
ABS & BA & TRC & VSC ACTUATOR


FROM POWER SOURCE SYSTEM (SEE PAGE 134)
7.5A GAUGE
2 1G
R-L
10 IH1
3 C
DL PL RL
N 1 A/T INDICATOR LIGHT SW [NEUTRAL START SW]
7 1 2
G-R G-W R-B
A B C
J 8 JUNCTION CONNECTOR
13 IH1 14 IH1 20 IH1
J19 JUNCTION CONNECTOR
R-B (RHD) R-B (LHD)
E 9 D, E10 E
ENGINE AND ECT ECU
TRC+ TRC- ENG+ ENG- NEO
13 D 20 D 14 D 21 D 16 E
GR P-B R-Y BR-W L-O
24 C 16 C 14 C 22 C 7 C
M 1
MASTER CYLINDER PRESSURE SENSOR
3 2 1
(SHIELDED) B W R
10 B 22 B 23 B 24 B
VCM PMC E2 FSS
D 1
DECELERATION SENSOR
GGND GL1 GL2 VGS
2 1 5 3
(SHIELDED) B W G R
10 C 2 C 9 C 1 C 18 C
GGND GL1 GL2 VGS GSS
22 D 24 D 15 D
D P R
A20 A, A21 B, A22 C, A23 D ABS & BA & TRC & VSC ECU
RR+ RR- RL+ RL- GND3 GND4 PKB CCS
11 C 12 C 19 C 20 C 8 C 17 C 15 C 21 D
GR-R L L-Y L-W W-B W-B R-L G-B
7 IM1 19 IM1 6 IM1 18 IM1
I11 : LHD
I12 : RHD
3 5E
6 5A
4 D
C16 CRUISE CONTROL SW
1 5D
11 5B
R-W
1 2
A35 ABS SPEED SENSOR REAR RH
A34 ABS SPEED SENSOR REAR LH
P 3 PARKING BRAKE SW
IF

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



VSC

SYSTEM OUTLINE

1. ABS OPERATION

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of the wheel cylinders for all the four wheels to automatically avoid wheel locking and ensure the directional and steering stability of the vehicle. If the brake pedal is depressed suddenly, the ABS & BA & TRC & VSC ECU controls the solenoids in the actuators using the signals from the sensors to move the brake fluid to the reservoir in order to release the braking pressure applied to the wheel cylinder. If the ABS & BA & TRC & VSC ECU detects that the fluid pressure in the wheel cylinder is insufficient, the ECU controls the solenoids in the actuators to increase the braking pressure.

2. TRACTION CONTROL OPERATION

The traction control system controls the engine torque, the hydraulic pressure of the driving wheel cylinders, slipping of the wheels which may occur at start or acceleration of the vehicle, to ensure an optimal driving power and vehicle stability corresponding to the road conditions.

3. VSC OPERATION

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under- or over-steering of the vehicle. If this occurs, the VSC system automatically controls the engine power and wheel brakes to reduce the under- or over-steering.

To reduce large over-steering :

If the VSC system determines that the over-steering is large, it activates the brakes for the outer front turning wheels depending on the degree of the over-steering to produce the moment toward the outside of the vehicle and reduce the over-steering.

To reduce large under-steering :

If the VSC system determines that the under-steering is large, it controls the engine power and activates the rear wheel brakes to reduce the under-steering.

VSC indicator light

If an mulfunction occurs in the VSC system, the VSC indicator lights up to warn the driver.

4. MUTUAL SYSTEM CONTROL

To efficiently operate the VSC system at its optimal level, the VSC system and other control systems are mutually controlled while the VSC system is being operated.

Engine control

The engine power does not interfere with the VSC brake control by fuel cut controlling and reducing the engine output.

Engine control and electronically controlled transmission control

The strong braking force does not interfere with the braking force control of the VSC system by turning off the accel and reducing changes in the driving torque at shift-down.

VSC system operation indication

The slip indicator light flashes and the buzzer alarm intermittently to warn the driver that the current road is slippery, while the VSC system is being operated.

5. FAIL SAFE FUNCTION

If an mulfunction occurs in the ABS & BA & TRC & VSC ECU, sensor signals, and/or actuators, the ABS & BA & TRC & VSC ECU inhibits the brake actuator control and inputs the mulfunction signal to the engine control module. According to the mulfunction signal, the brake actuator turns off the solenoid and the engine control module rejects any electronically controlled request from the VSC system. As a result, the vehicle functions without the ABS, BA, TRC, and VSC systems.

SERVICE HINTS

A20 (A), A21 (B), A22 (C), A23 (D) ABS & BA & TRC & VSC ECU

(C) 6-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(D) 7-GROUND : Approx. **12** volts with stop light SW on
(C) 10, (C) 17, (D) 8, (B) 31, (B) 6-GROUND : Always continuity

A8, A9 ABS SPEED SENSOR FRONT LH, RH

1-2 : **1.5-1.7** kΩ (**20**°C, **68**°F)

A34, A35 ABS SPEED SENSOR REAR LH, RH

1-2 : **1.5-1.7** kΩ (**20**°C, **68**°F)

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
A5	A	90 (LHD)	A35		94 (LHD)	J8	93 (LHD)
		98 (RHD)			102 (RHD)		101 (RHD)
A6	B	90 (LHD)	B1		90 (LHD)	J9	93 (LHD)
		98 (RHD)			98 (RHD)		101 (RHD)
A7	C	90 (LHD)	C9	A	92 (LHD)	J19	101 (RHD)
		98 (RHD)			100 (RHD)	M1	91 (LHD)
A8		90 (LHD)	C11	C	92 (LHD)		99 (RHD)
		98 (RHD)			100 (RHD)	N1	91 (LHD)
A9		90 (LHD)	C16		92 (LHD)		99 (RHD)
		98 (RHD)			100 (RHD)	P3	93 (LHD)
A20	A	92 (LHD)	D1		92 (LHD)		101 (RHD)
		100 (RHD)			100 (RHD)	S9	93 (LHD)
A21	B	92 (LHD)	D3		92 (LHD)		101 (RHD)
		100 (RHD)			100 (RHD)	S10	93 (LHD)
A22	C	92 (LHD)	E9	D	92 (LHD)		101 (RHD)
		100 (RHD)			100 (RHD)	V7	93 (LHD)
A23	D	92 (LHD)	E10	E	92 (LHD)		101 (RHD)
		100 (RHD)			100 (RHD)	Y1	95 (LHD)
A34		94 (LHD)	F11		90 (LHD)		103 (RHD)
		102 (RHD)			98 (RHD)		

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	88	R/B No.2 (Engine Compartment Left)

▭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1E	78 (LHD)	
	80 (RHD)	
1G	78 (LHD)	
	80 (RHD)	
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
5A	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5B		
5C		
5D		
5E		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IE2	108 (LHD)	
	118 (RHD)	
IH1	110 (LHD)	Engine Wire and Cowl Wire (Behind the Glove Box)
	120 (RHD)	
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
	120 (RHD)	
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IM1	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
	120 (RHD)	

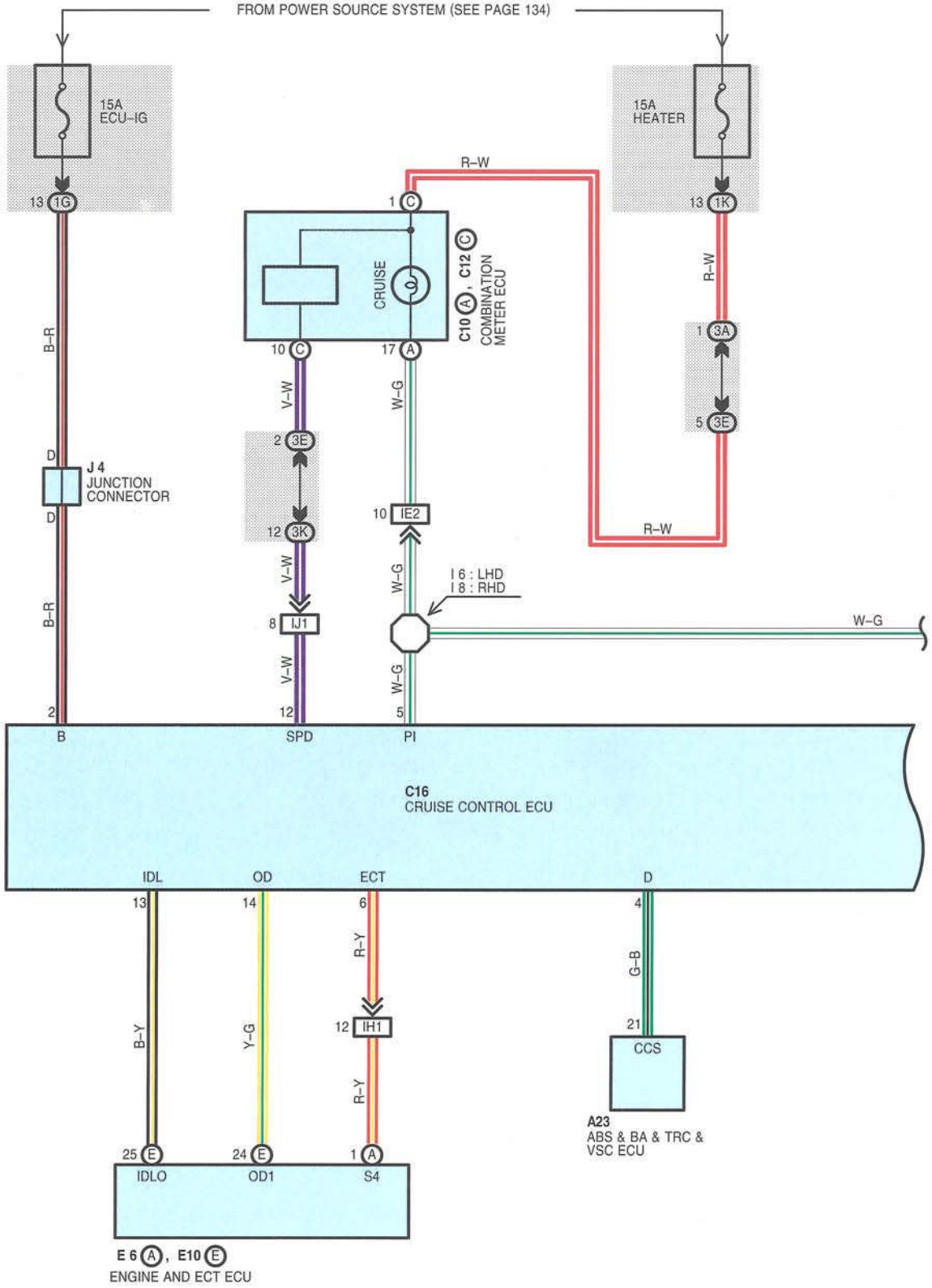
: GROUND POINTS

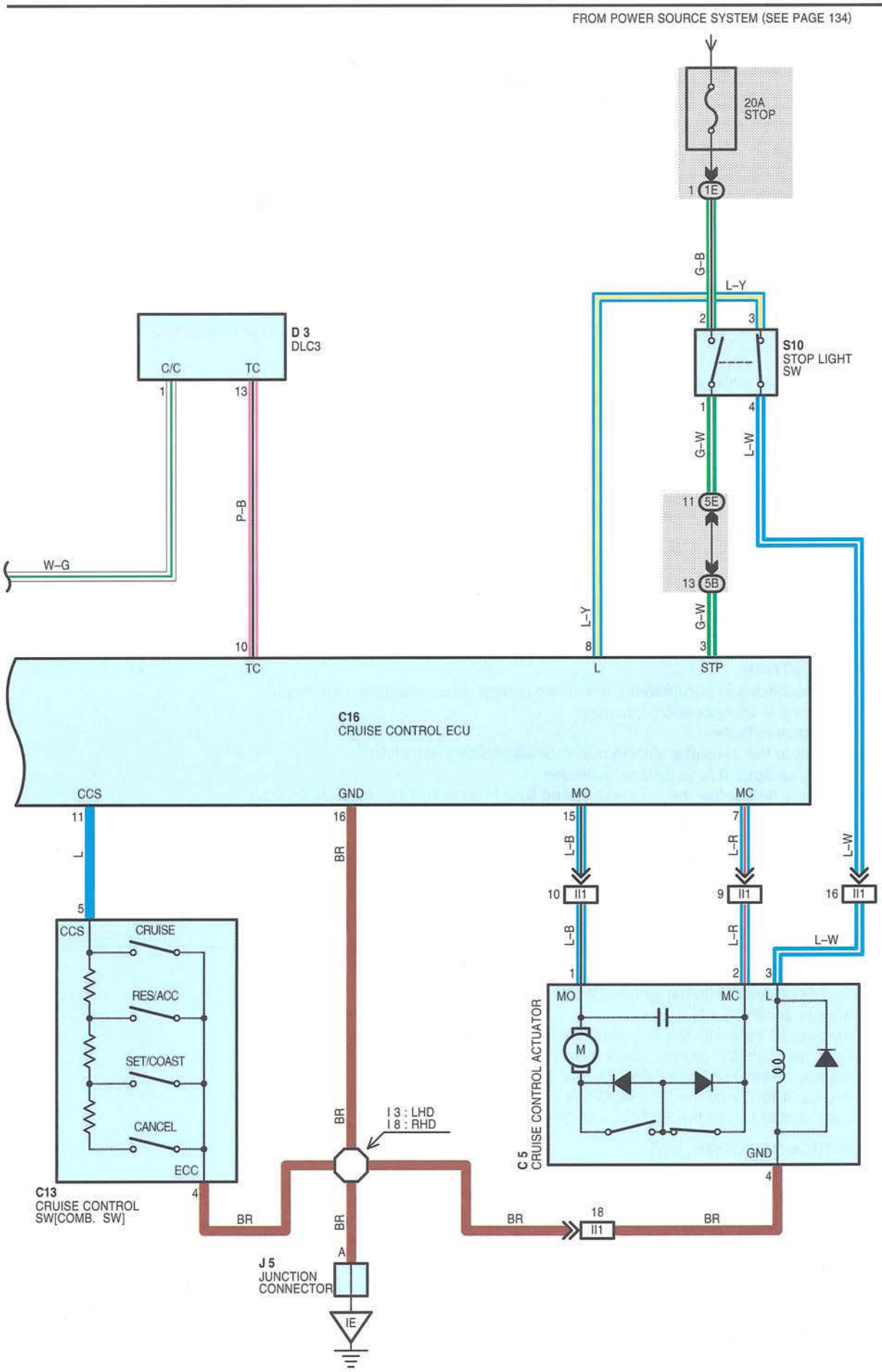
Code	See Page	Ground Points Location
EA	106 (LHD)	Engine Compartment Right
	116 (RHD)	
ED	106 (LHD)	Right Radiator Side Support
	116 (RHD)	
IF	108 (LHD)	Dash Panel Center
	118 (RHD)	
IG	108 (LHD)	Cowl Side Panel RH
	118 (RHD)	

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	106 (LHD)	Engine Room Main Wire	I7	110 (LHD)	Cowl Wire
	116 (RHD)		I11	110 (LHD)	
E5	106 (LHD)			120 (RHD)	
E13			I12	120 (RHD)	

CRUISE CONTROL




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
20A
STOP
1E
G-B
L-Y
D 3
DLC3
C/C
TC
S10
STOP LIGHT
SW
G-W
L-W
5E
5B
W-G
P-B
L-Y
G-W
TC
L
STP
C16
CRUISE CONTROL ECU
CCS
GND
MO
MC
L-B
L-R
L-W
II1
CRUISE
RES/ACC
SET/COAST
CANCEL
ECC
C13
CRUISE CONTROL
SW[COMB. SW]
BR
I 3 : LHD
I 8 : RHD
C 5
CRUISE CONTROL ACTUATOR
M
GND
J 5
JUNCTION
CONNECTOR
IE

CRUISE CONTROL

SYSTEM OUTLINE

The cruise control system is a constant vehicle speed controller in which control of the switch on the instrument panel makes it possible to automatically adjust the opening of the engine throttle valve without depressing of the accel. pedal.

1. SET OPERATION

When the cruise control main SW is turned on, the system starts preparations necessary for the cruise control and turns on the indicator light in the combination meter.

2. SET SPEED CONTROL

When the SET/COAST SW is operated with the cruise control main SW turned on during travelling, the constant vehicle speed is controlled.

3. COAST CONTROL

During cruise control driving, while the SET/COAST SW is ON, the motor in the cruise control actuator rotates to close the throttle valve, and decrease the driving speed.
Every time the SET/COAST SW is turned on instantaneously, the vehicle speed is decelerated approximately 1.5 km/h.

4. ACCEL CONTROL

During cruise control driving, while the RES/ACC SW is ON, the motor in the cruise control actuator rotates to open the throttle valve, and increase the driving speed.
Every time the RES/ACC SW is turned on instantaneously, the vehicle speed is accelerated approximately 1.5 km/h.

5. RESUME CONTROL

When the vehicle speed is within the low speed limit (Approximately 40 km/h, 25 mph) if the cruise control is cancelled, use of the RES/ACC SW accelerates the vehicle to the speed level used before canceling the cruise control.

6. MANUAL CANCEL MECHANISM

If any of the following signals is input during cruise control travelling, the cruise control is cancelled.
* The stop light SW is turned on.
* The CANCEL SW is turned on.
* The cruise control main SW is turned off.
* When the shift lever is in a position other than D position

7. AUTO CANCEL FUNCTION

If any of the following conditions is encountered, the cruise control is automatically cancelled.
* The stop light SW wiring is faulty or short-circuited.
* The vehicle speed signal is faulty.
* In case of over current to the transistor, driving motor, or electromagnetic clutch
* When the vehicle has stopped due to voltage decrease
* When the vehicle speed falls below the minimum speed limit (Approximately. 40 km/h, 25 mph)

8. OVERDRIVE CONTROL FUNCTION

The overdrive control may be cancelled if the vehicle travels on the slope during cruise control travelling. After the overdrive control has been cancelled, if the vehicle speed exceeds the overdrive return speed (The set speed is 2 km/h, 1.2 mph) and it is decided that the slope is finished, the vehicle returns to the overdrive control mode again.

SERVICE HINTS

C16 CRUISE CONTROL ECU

2-GROUND : Approx. **12** volts with the ignition SW at **ON** position
16-GROUND : Always continuity
3-GROUND : Approx. **12** volts with the stop light SW at on
11-GROUND : Continuity with the cruise control main SW at on
Approx. **1540** Ω with the CANCEL SW on in cruise control SW
Approx. **240** Ω with the RES/ACC SW on in cruise control SW
Approx. **630** Ω with the SET/COAST SW on in cruise control SW

C13 CRUISE CONTROL SW [COMB. SW]

5-4 : Approx. **1540** Ω with the CANCEL SW on
Approx. **240** Ω with the RES/ACC SW on
Approx. **630** Ω with the SET/COAST SW on

: PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
A23		92 (LHD)	C13		92 (LHD)	E10	E	92 (LHD)
		100 (RHD)			100 (RHD)			100 (RHD)
C5		90 (LHD)	C16		92 (LHD)	J4		93 (LHD)
		98 (RHD)			100 (RHD)			101 (RHD)
C10	A	92 (LHD)	D3		92 (LHD)	J5		93 (LHD)
		100 (RHD)			100 (RHD)			101 (RHD)
C12	C	92 (LHD)	E6	A	92 (LHD)	S10		93 (LHD)
		100 (RHD)			100 (RHD)			101 (RHD)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1G	78 (LHD)	
	80 (RHD)	
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
3K		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5E		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE2	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
	118 (RHD)	
IH1	110 (LHD)	Engine Wire and Cowl Wire (Behind the Glove Box)
	120 (RHD)	
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
	120 (RHD)	
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
	120 (RHD)	

: GROUND POINTS

Code	See Page	Ground Points Location
IE	108 (LHD)	Cowl Side Panel LH
	118 (RHD)	

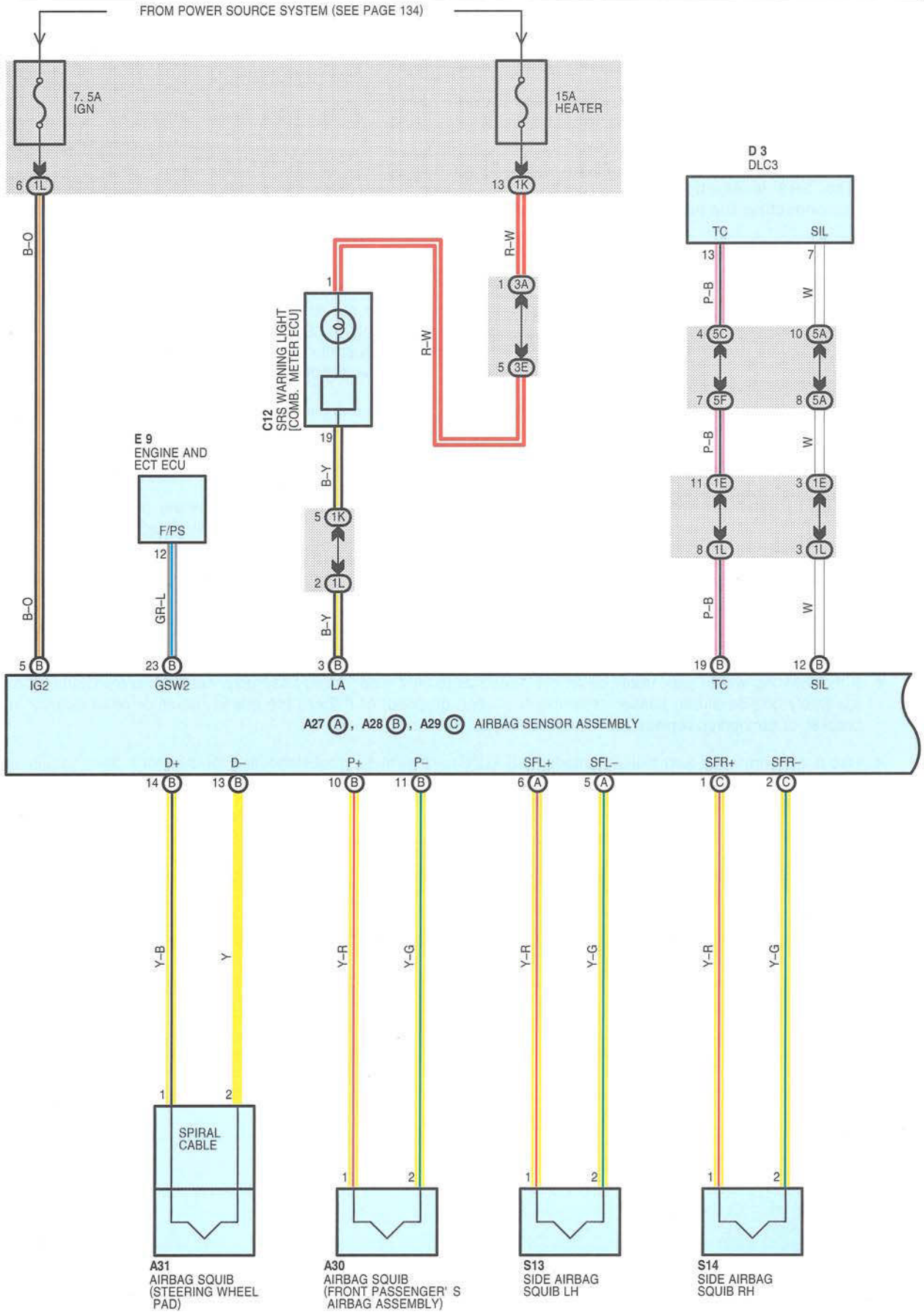
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I3	110 (LHD)	Cowl Wire	I8	120 (RHD)	Cowl Wire
I6					

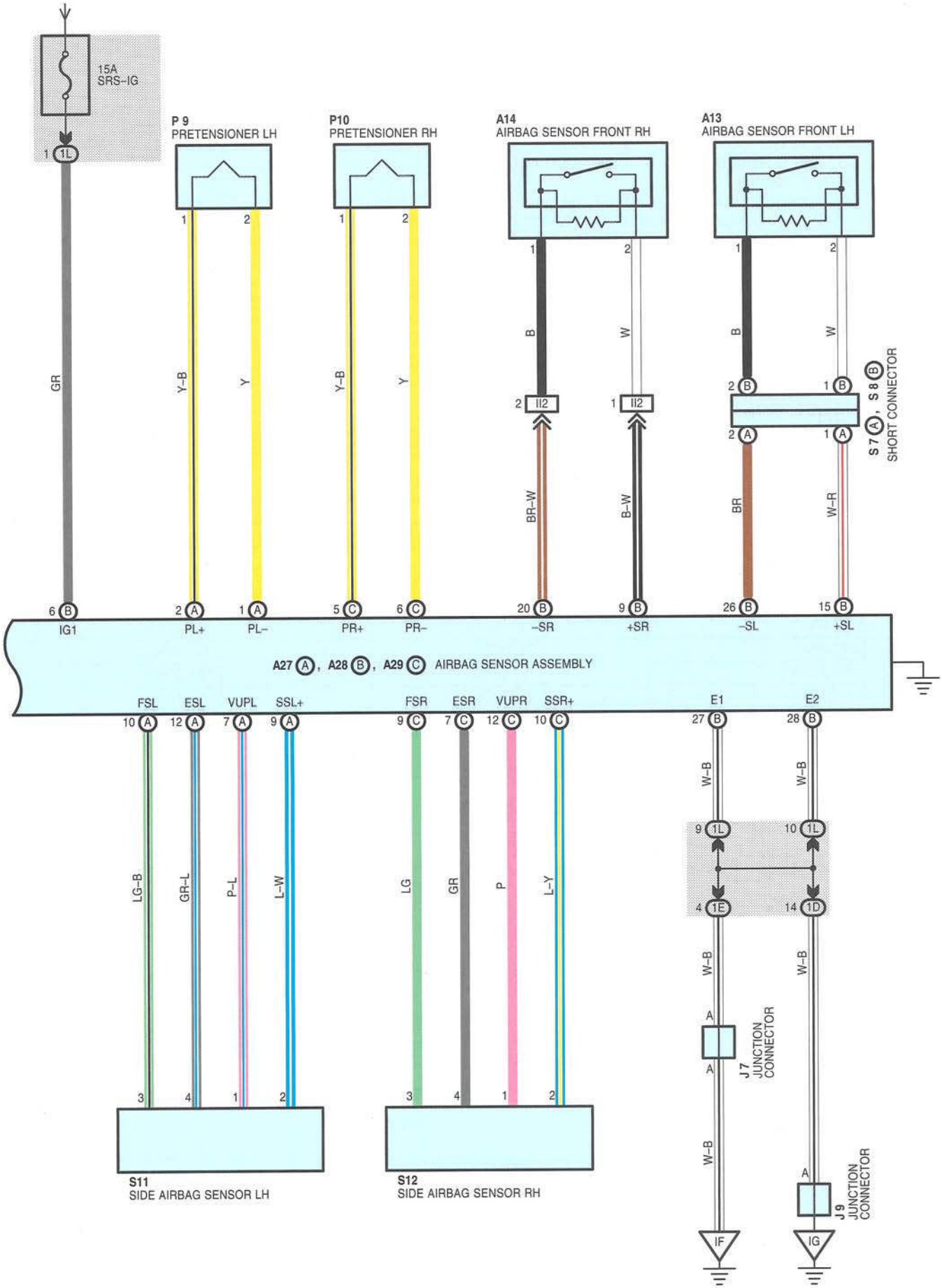
MEMO

NOTICE: When inspecting or repairing the SRS, perform the operation in accordance with the following precautionary instructions and the procedure and precautions in the Repair Manual for the applicable 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 after 90 seconds from when the ignition switch 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 be deployed.)
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be canceled. So before starting work, make a record of the contents memorized in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. This vehicle has power tilt and 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 the memory contents. So when the work is finished, it will be necessary to explain this fact tot the customer, and ask the customer to adjust the features and reset the memory. To avoid erasing the memory in each memory system, never use a back-up power supply from outside the vehicle.
- Before repairs, remove the airbag sensor if shocks are likely to be applied to the sensor during repairs.
- Do not expose the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly directly to hot air or flames.
- Even in cases of a minor collision where the SRS does not deploy, the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly and side airbag sensor assembly should be inspected.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never disassemble and repair the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly in order to reuse it.
- If the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly has been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace them with new ones.
- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting the system's electrical circuits.
- Information labels are attached to the periphery of the SRS components. Follow the instructions on the notices.
- After work on the SRS is completed, perform the SRS warning light check.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.


FROM POWER SOURCE SYSTEM (SEE PAGE 134)
7. 5A
IGN
15A
HEATER
6 1L
13 1K
B–O
R–W
1 3A
5 3E
C12
SRS WARNING LIGHT
[COMB. METER ECU]
1
19
B–Y
5 1K
2 1L
B–Y
E 9
ENGINE AND
ECT ECU
F/PS
12
GR–L
B–O
5 B
IG2
23 B
GSW2
3 B
LA
D 3
DLC3
TC
SIL
13
7
P–B
W
4 5C
10 5A
7 5F
8 5A
P–B
W
11 1E
3 1E
8 1L
3 1L
P–B
W
19 B
TC
12 B
SIL
A27 A, A28 B, A29 C AIRBAG SENSOR ASSEMBLY
D+
D–
P+
P–
SFL+
SFL–
SFR+
SFR–
14 B
13 B
10 B
11 B
6 A
5 A
1 C
2 C
Y–B
Y
Y–R
Y–G
Y–R
Y–G
Y–R
Y–G
1
2
SPIRAL
CABLE
A31
AIRBAG SQUIB
(STEERING WHEEL
PAD)
A30
AIRBAG SQUIB
(FRONT PASSENGER' S
AIRBAG ASSEMBLY)
S13
SIDE AIRBAG
SQUIB LH
S14
SIDE AIRBAG
SQUIB RH

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



SRS

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 SRS-IG fuse flows to TERMINAL (B) 4 of the airbag sensor assembly. Only when the ignition SW is on does the current flow from the IGN fuse 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 SRS-IG or IGN fuse flows to TERMINALS (B) 14, (B) 10, (A) 2 and (C) 5 of the airbag sensor assembly to TERMINAL 1 of the airbag squibs and the pretensioners to TERMINAL 2 to TERMINALS (B) 13, (B) 11, (A) 1 and (C) 6 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 SRS-IG or IGN fuse flows to TERMINALS (A) 6, (C) 2, (A) 2 and (C) 5 of the airbag sensor assembly to TERMINAL 1 of the side airbag squibs and the pretensioners to TERMINAL 2 to TERMINALS (A) 5, (C) 1, (A) 1 and (C) 6 of the airbag sensor assembly to TERMINAL (B) 27, (B) 28 or BODY GROUND to GROUND, causing side airbag squibs and the pretensioners 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 front 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 pretensioners make sure of the seat belt restrainability

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code		See Page
A13		90 (LHD)	C12	92 (LHD)	S7	A	93 (LHD)
		98 (RHD)		100 (RHD)			101 (RHD)
A14		90 (LHD)	D3	92 (LHD)	S8	B	93 (LHD)
		98 (RHD)		100 (RHD)			101 (RHD)
A27	A	92 (LHD)	E9	92 (LHD)	S11		95 (LHD)
		100 (RHD)		100 (RHD)			103 (RHD)
A28	B	92 (LHD)	J7	93 (LHD)	S12		95 (LHD)
		100 (RHD)		101 (RHD)			103 (RHD)
A29	C	92 (LHD)	J9	93 (LHD)	S13		95 (LHD)
		100 (RHD)		101 (RHD)			103 (RHD)
A30		92 (LHD)	P9	95 (LHD)	S14		95 (LHD)
		100 (RHD)		103 (RHD)			103 (RHD)
A31		92 (LHD)	P10	95 (LHD)			
		100 (RHD)		103 (RHD)			

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1E	78 (LHD)	
	80 (RHD)	
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1L	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
5A	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5C		
5F		

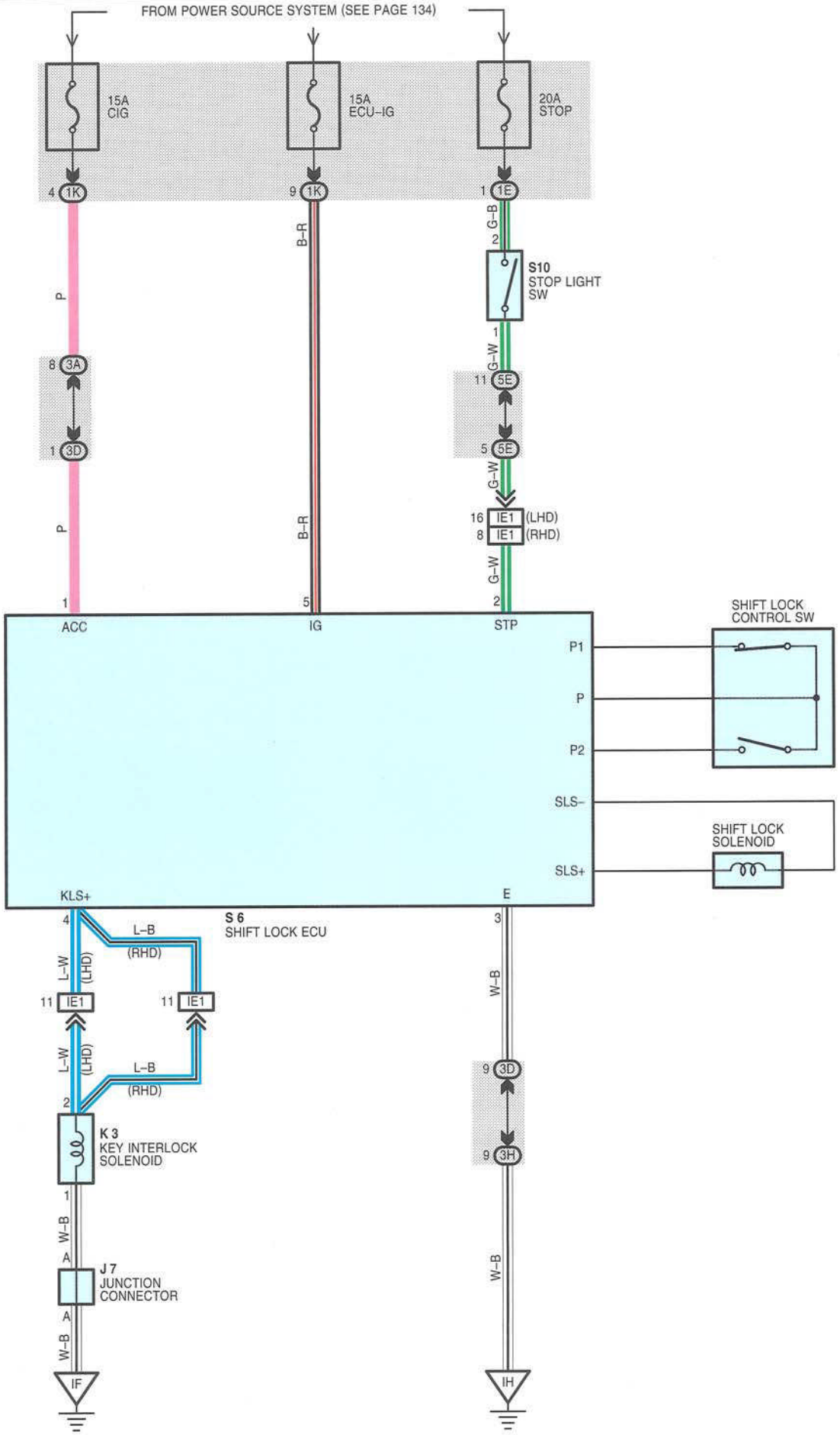
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II2	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
	120 (RHD)	

▽ : **GROUND POINTS**

Code	See Page	Ground Points Location
IF	108 (LHD) 118 (RHD)	Dash Panel Center
IG	108 (LHD) 118 (RHD)	Cowl Side Panel RH

SHIFT LOCK


FROM POWER SOURCE SYSTEM (SEE PAGE 134)
15A CIG
15A ECU-IG
20A STOP
4 1K
9 1K
1 1E
P
B-R
G-B
2
S10 STOP LIGHT SW
1
G-W
8 3A
1 3D
11 5E
5 5E
P
B-R
G-W
16 IE1 (LHD)
8 IE1 (RHD)
G-W
1
5
2
ACC
IG
STP
SHIFT LOCK CONTROL SW
P1
P
P2
SLS-
SHIFT LOCK SOLENOID
SLS+
KLS+
E
S 6 SHIFT LOCK ECU
4
L-B (RHD)
L-W (LHD)
11 IE1
11 IE1
L-W (LHD)
L-B (RHD)
2
K 3 KEY INTERLOCK SOLENOID
1
W-B
A
J 7 JUNCTION CONNECTOR
A
W-B
IF
3
W-B
9 3D
9 3H
W-B
IH

SYSTEM OUTLINE

When the ignition SW is turned to ACC position, the current from the CIG fuse flows to TERMINAL 1 of the shift lock ECU. When the ignition SW is turned to ON position, the current from the ECU-IG fuse flows to TERMINAL 2 of the ECU.

1. SHIFT LOCK MECHANISM

With the ignition SW on, when a signal that the brake pedal is depressed (Stop light SW on) and a signal that the shift lever is put in P position (Continuity between P1 and P of the shift lock control SW) is input to the ECU, the ECU activates and the current flows from TERMINAL 2 of the ECU to TERMINAL SLS+ of the shift lock solenoid to solenoid to TERMINAL SLS- to TERMINAL 3 of the ECU to GROUND. This causes the shift lock solenoid to turn on (Lock plate disengages) and the shift lever can be shifted into other position than the P position

2. KEY INTER LOCK MECHANISM

With the ignition SW ON or ACC position, when the shift lever is put in P position (No continuity between P2 and P of shift lock control SW), the current flowing from TERMINAL 4 of the ECU to the key interlock solenoid is cut off. This causes the key interlock solenoid to turn off (Lock plate disengages from LOCK position) and the ignition key can be turned from ACC to LOCK position.

SERVICE HINTS

S6 SHIFT LOCK ECU

1-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
5-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ST** position
3-GROUND : Always continuity
2-GROUND : Approx. **12** volts with the brake pedal depressed

S10 STOP LIGHT SW

2-1 : Closed with the brake pedal depressed

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J7	93 (LHD)	K3	101 (RHD)	S10	93 (LHD)
	101 (RHD)	S6	93 (LHD)		101 (RHD)
K3	93 (LHD)		101 (RHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3H		
5E	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)

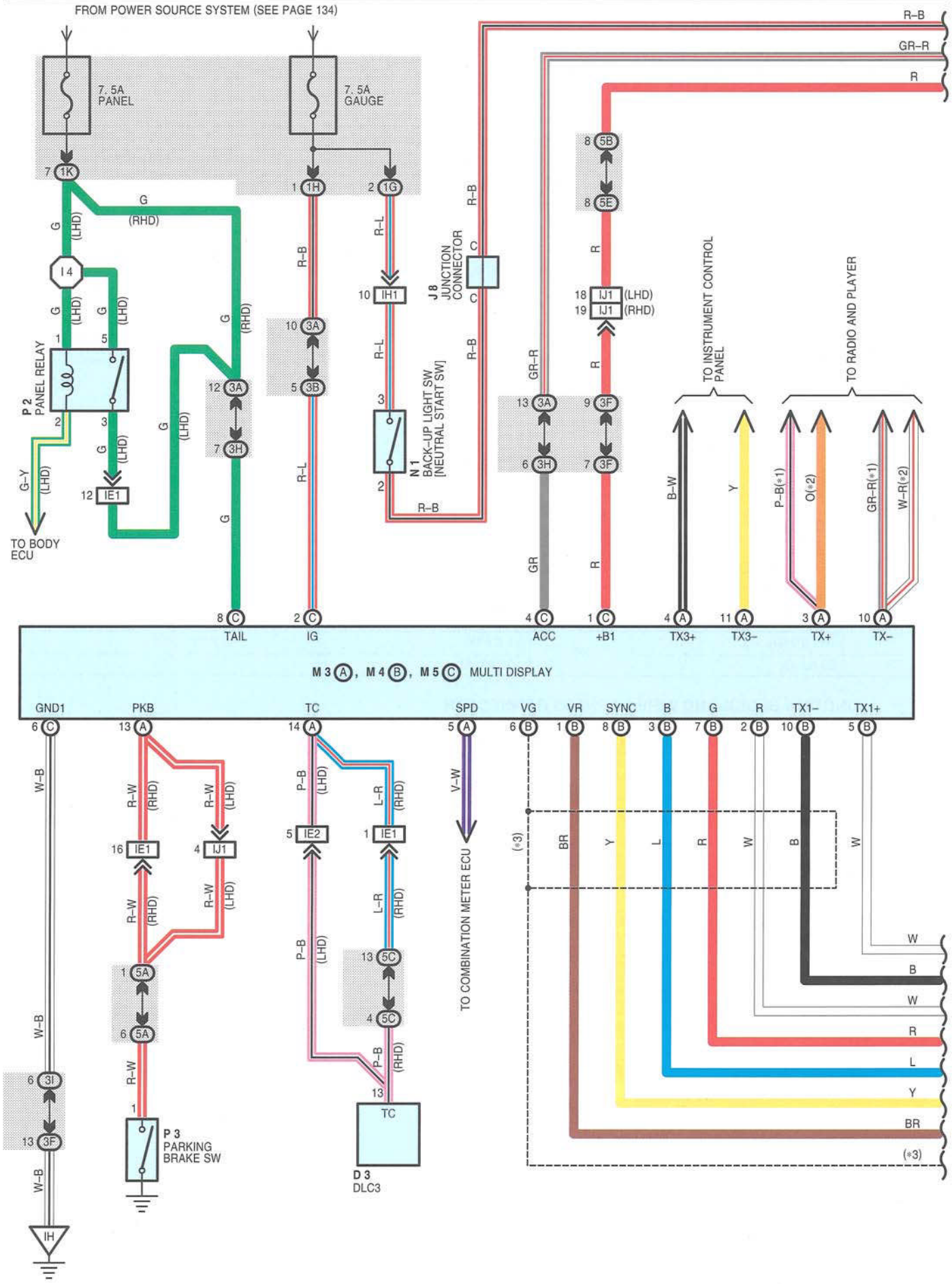
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
	118 (RHD)	

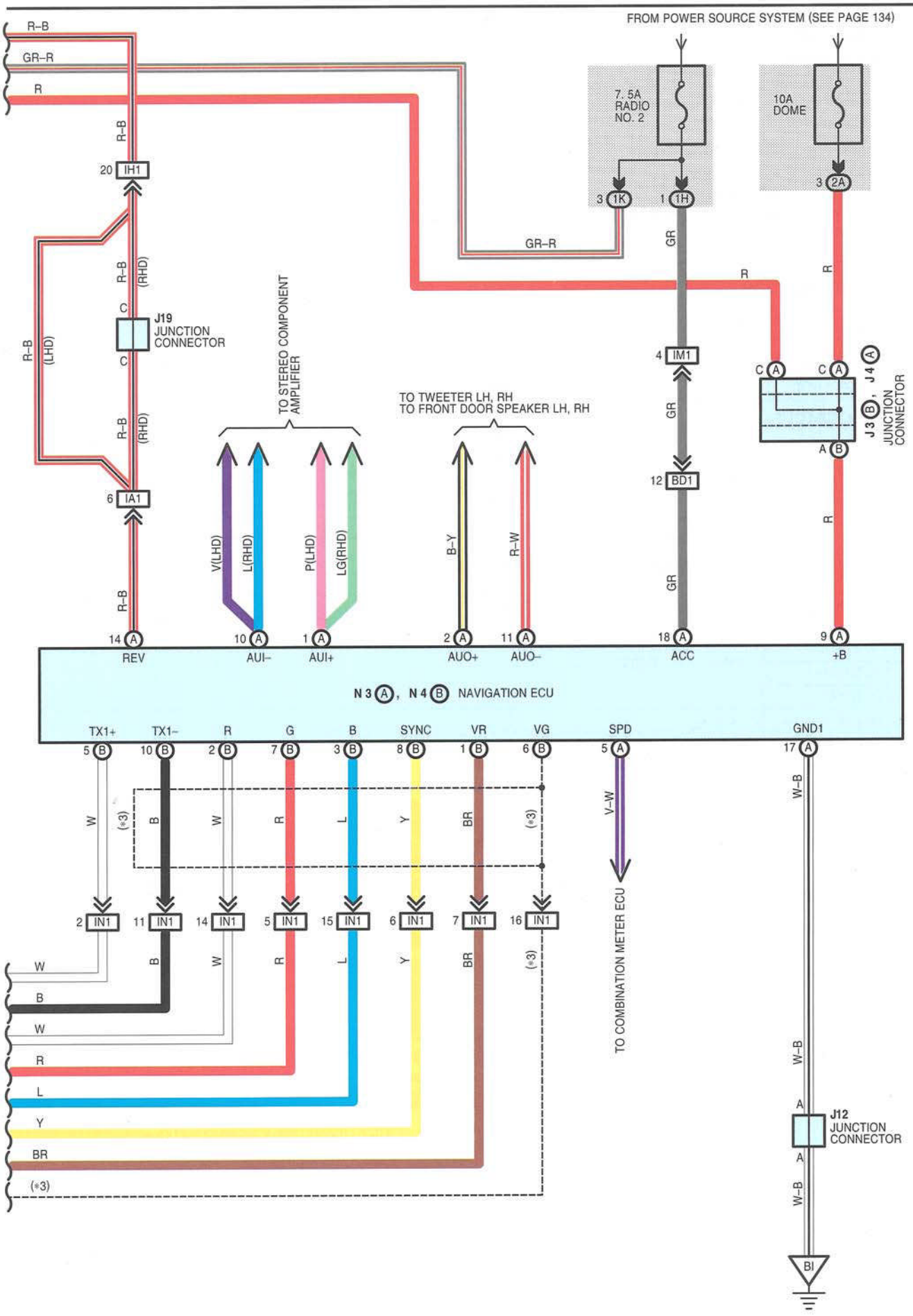
▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	108 (LHD)	Dash Panel Center
	118 (RHD)	
IH	108 (LHD)	Instrument Panel Brace RH
	118 (RHD)	

LEXUS NAVIGATION SYSTEM



* 1 : EUROPE
* 2 : EXCEPT EUROPE
* 3 : SHIELDED



SERVICE HINTS

M5 (C) MULTI DISPLAY

(C) 2-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(C) 1-GROUND : Always approx. **12** volts
(C) 4-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(C) 6-GROUND : Always continuity

N3 (A) NAVIGATION ECU

(A) 9-GROUND : Always approx. **12** volts
(A) 18-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(A) 17-GROUND : Always continuity

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
D3		92 (LHD)	J12		102 (RHD)	N1		99 (RHD)
		100 (RHD)	J19		101 (RHD)	N3	A	94 (LHD)
J3	B	93 (LHD)	M3	A	93 (LHD)			102 (RHD)
		101 (RHD)			101 (RHD)	N4	B	94 (LHD)
J4	A	93 (LHD)	M4	B	93 (LHD)			102 (RHD)
		101 (RHD)			101 (RHD)	P2		93 (LHD)
J8		93 (LHD)	M5	C	93 (LHD)	P3		93 (LHD)
		101 (RHD)			101 (RHD)			101 (RHD)
J12		94 (LHD)	N1		91 (LHD)			

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1H	78 (LHD)	
	80 (RHD)	
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3F		
3H		
3I		
5A	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5B		
5C		
5E		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	108 (LHD) 118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IE1	108 (LHD) 118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IE2	108 (LHD)	
IH1	110 (LHD) 120 (RHD)	Engine Wire and Cowl Wire (Behind the Glove Box)
IJ1	110 (LHD) 120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IM1	110 (LHD) 120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IN1	110 (LHD) 120 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Instrument Panel Brace LH)
BD1	112 (LHD) 122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

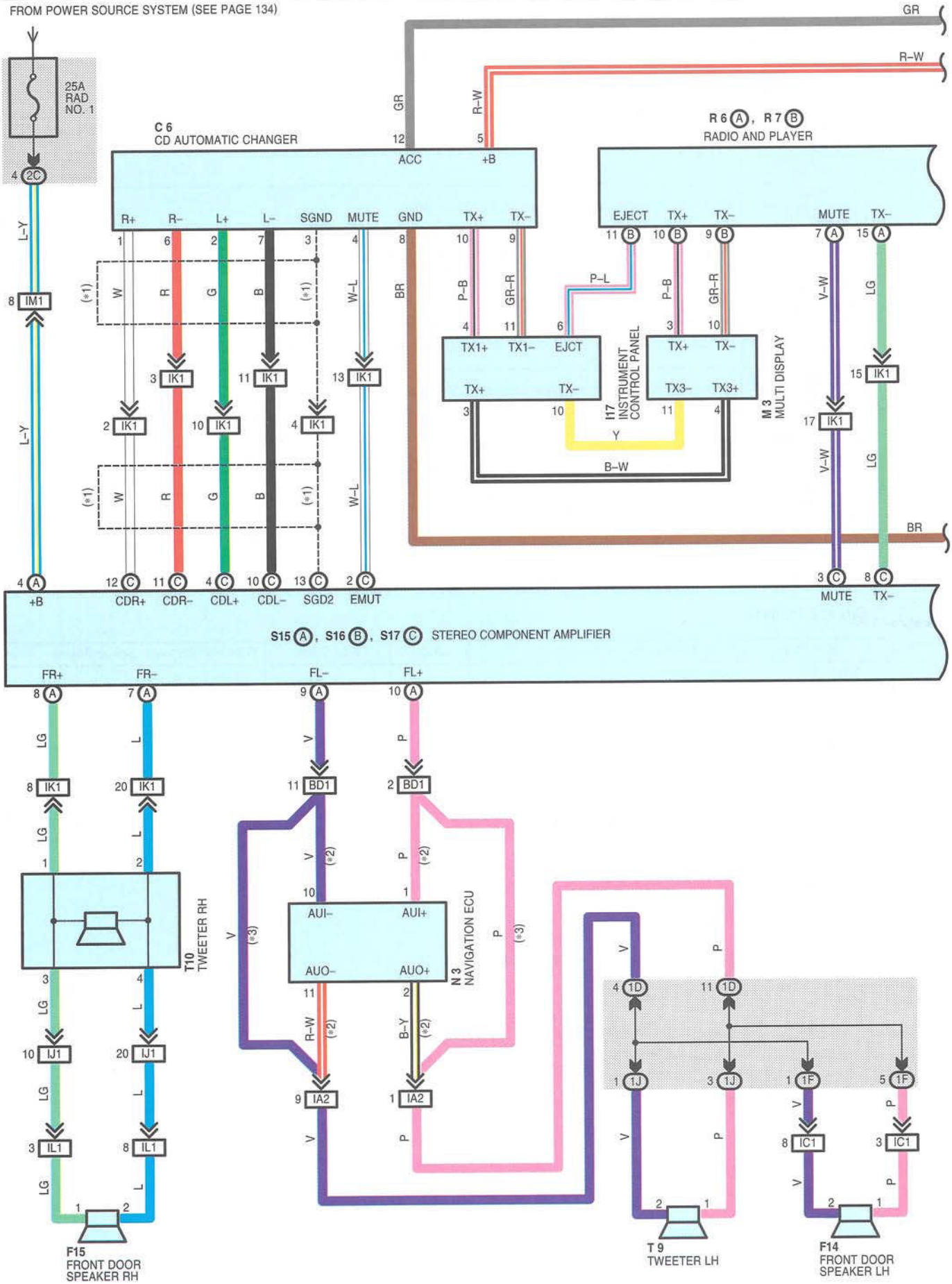
: GROUND POINTS

Code	See Page	Ground Points Location
IH	108 (LHD) 118 (RHD)	Instrument Panel Brace RH
BI	112 (LHD) 122 (RHD)	Upper the Rear Axle Housing Left

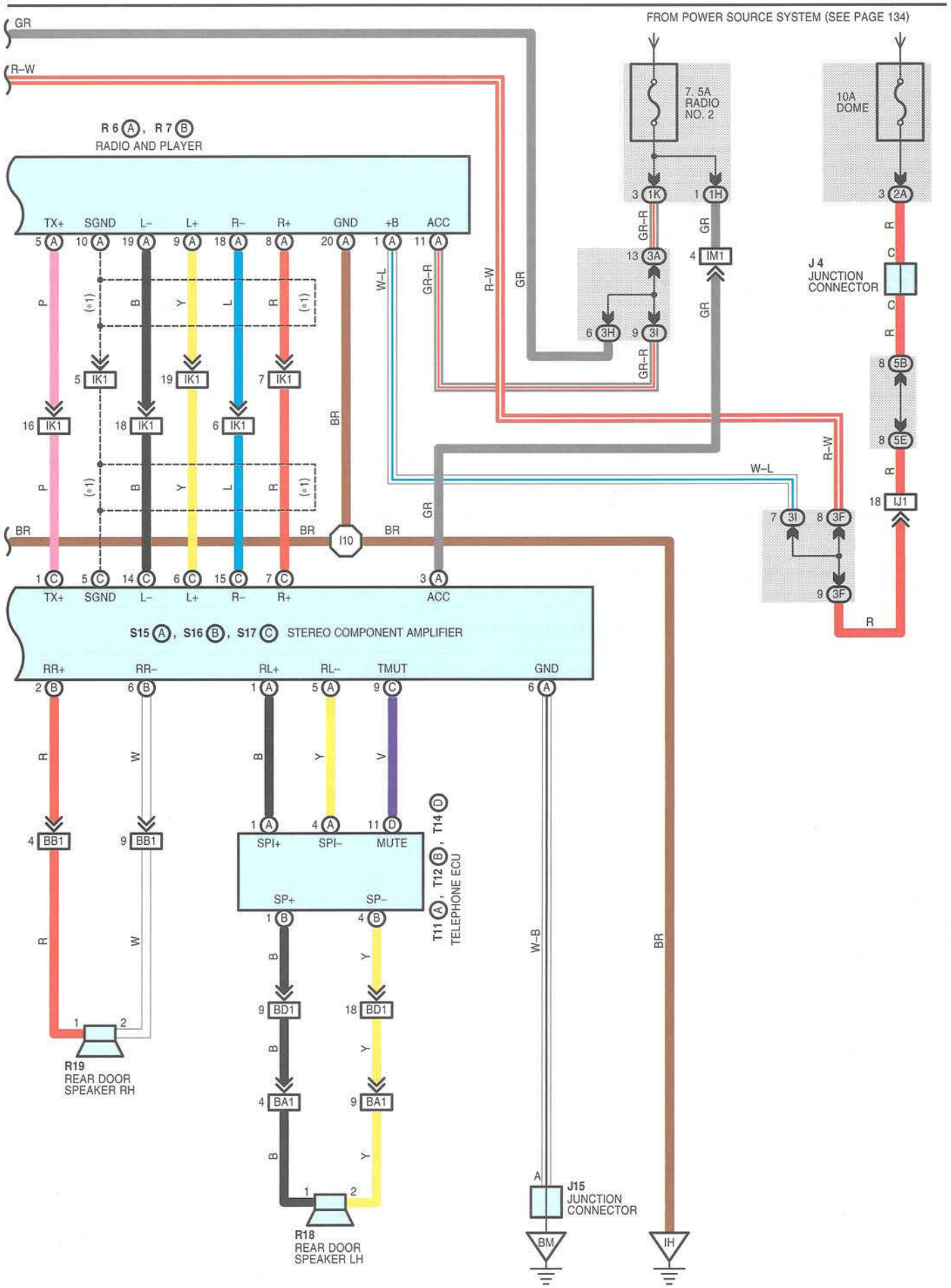
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	110 (LHD)	Cowl Wire			

RADIO AND PLAYER (LHD)



* 1 : SHIELDED
* 2 : W/ LEXUS NAVIGATION SYSTEM
* 3 : W/O LEXUS NAVIGATION SYSTEM



RADIO AND PLAYER (LHD)

SERVICE HINTS

R3 (A) RADIO AND PLAYER

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

S15 (A) STEREO COMPONENT AMPLIFIER

(A) 6–GROUND : Always continuity
(A) 3–GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(A) 4–GROUND : Always approx. **12** volts

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C6	92 (LHD)	N3	94 (LHD)	S17 C	95 (LHD)
F14	94 (LHD)	R6 A	93 (LHD)	T9	93 (LHD)
F15	94 (LHD)	R7 B	93 (LHD)	T10	93 (LHD)
I17	93 (LHD)	R18	95 (LHD)	T11 A	95 (LHD)
J4	93 (LHD)	R19	95 (LHD)	T12 B	95 (LHD)
J15	94 (LHD)	S15 A	95 (LHD)	T14 D	95 (LHD)
M3	93 (LHD)	S16 B	95 (LHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1H		
1J	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2C		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		
3H		
3I		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5E		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IK1	110 (LHD)	Floor Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
BA1	112 (LHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

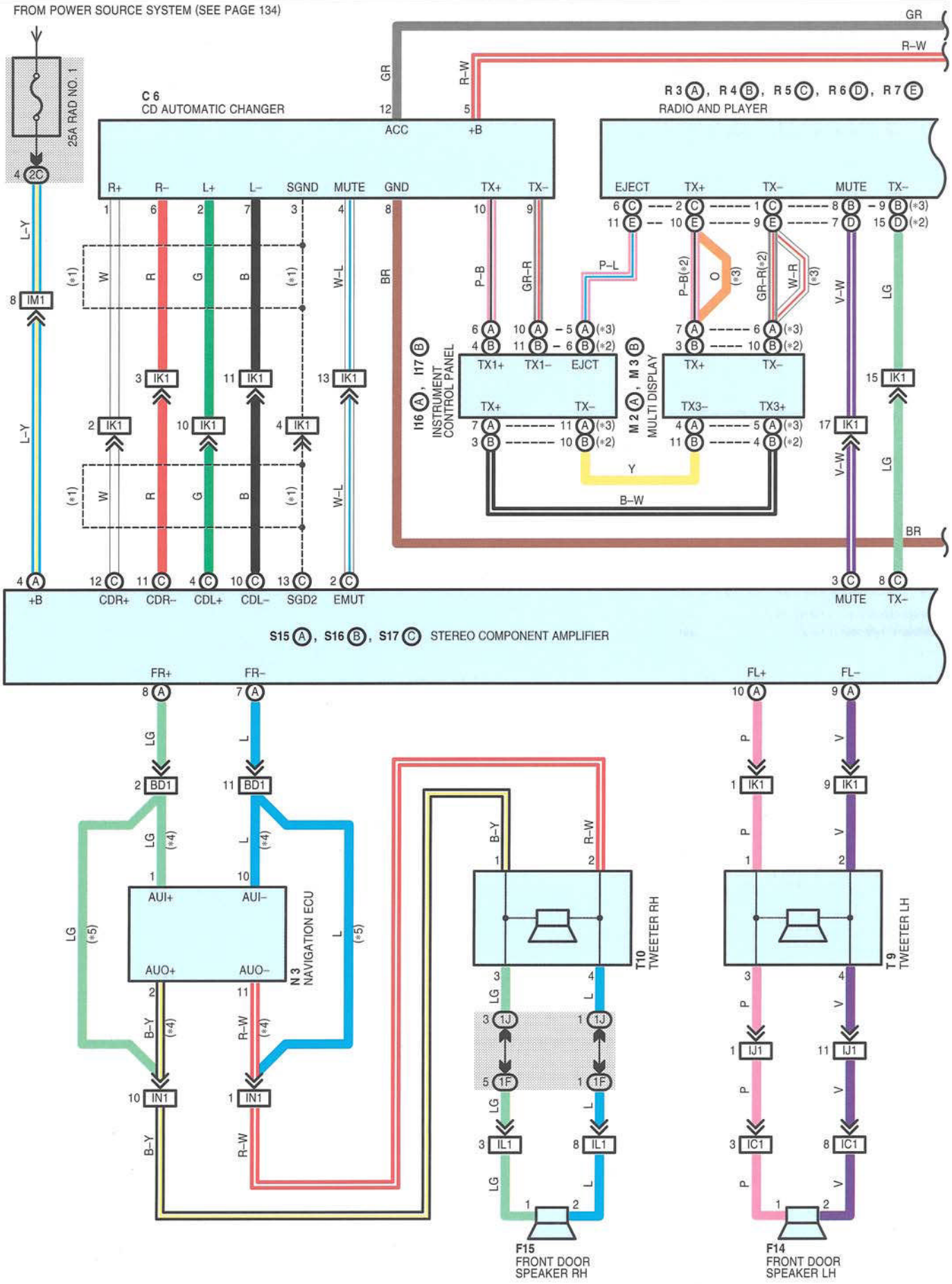
▽ : GROUND POINTS

Code	See Page	Ground Points Location
IH	108 (LHD)	Instrument Panel Brace RH
BM	112 (LHD)	Under the Rear RH Seat

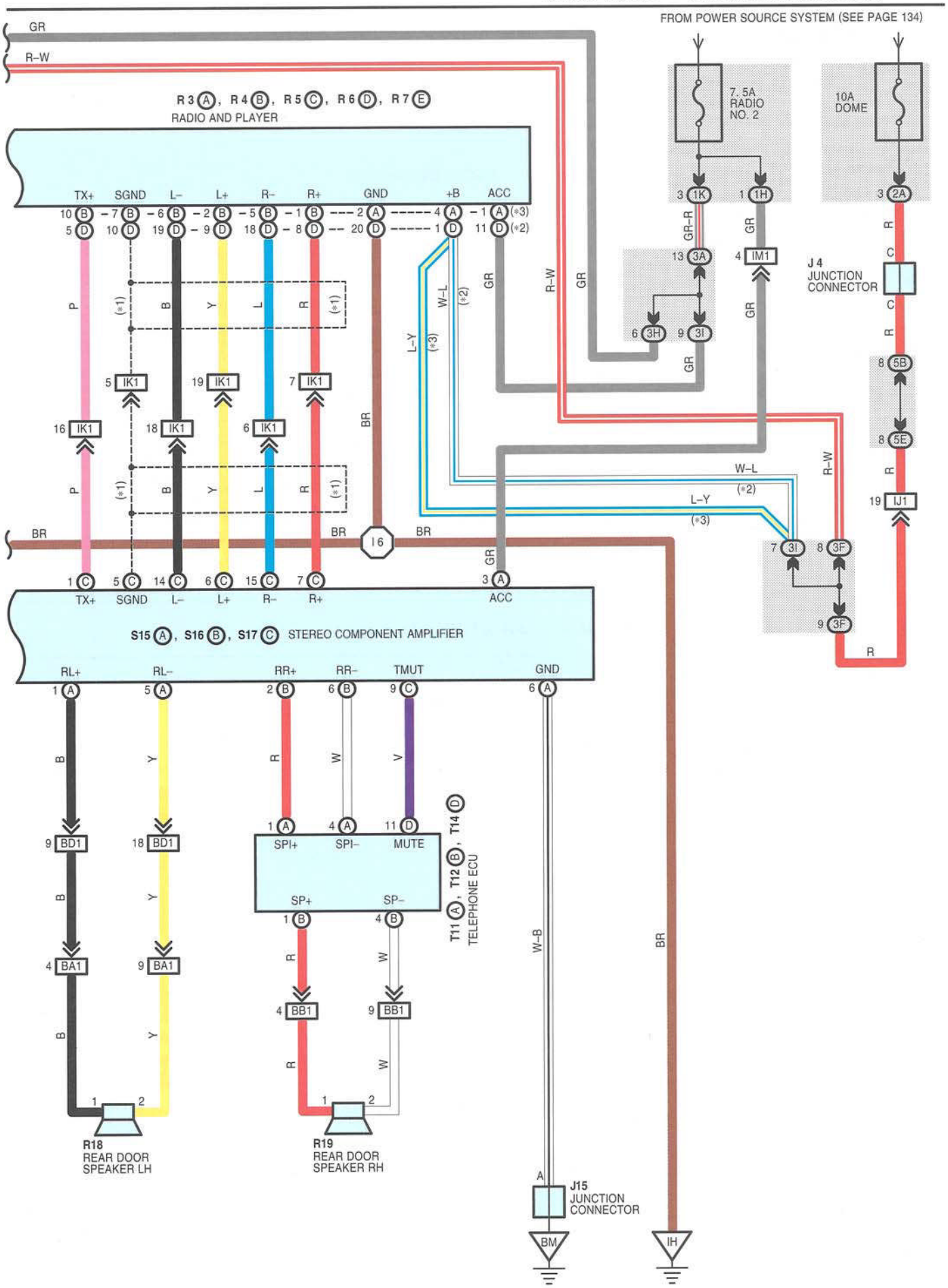
: **SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I10	110 (LHD)	Instrument Panel Wire			

RADIO AND PLAYER (RHD)



* 1 : SHIELDED
* 2 : EUROPE
* 3 : EXCEPT EUROPE
* 4 : W/ LEXUS NAVIGATION SYSTEM
* 5 : W/O LEXUS NAVIGATION SYSTEM



RADIO AND PLAYER (RHD)

SERVICE HINTS

R3 (A) RADIO AND PLAYER (EXCEPT EUROPE)

(A) 1-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(A) 4-GROUND : Always approx. **12** volts
(A) 2-GROUND : Always continuity

R6 (D) RADIO AND PLAYER (EUROPE)

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

S15 (A) STEREO COMPONENT AMPLIFIER

(A) 6-GROUND : Always continuity
(A) 3-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(A) 4-GROUND : Always approx. **12** volts

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C6	100 (RHD)	N3	102 (RHD)	S16 B	103 (RHD)
F14	102 (RHD)	R3 A	101 (RHD)	S17 C	103 (RHD)
F15	102 (RHD)	R4 B	101 (RHD)	T9	101 (RHD)
I16 A	101 (RHD)	R5 C	101 (RHD)	T10	101 (RHD)
I17 B	101 (RHD)	R6 D	101 (RHD)	T11 A	103 (RHD)
J4	101 (RHD)	R7 E	101 (RHD)	T12 B	103 (RHD)
J15	102 (RHD)	R18	103 (RHD)	T14 D	103 (RHD)
M2 A	101 (RHD)	R19	103 (RHD)		
M3 B	101 (RHD)	S15 A	103 (RHD)		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F 1H	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J 1K	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A 2C	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
3A 3F 3H 3I	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
5B 5E	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IJ1	120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IK1	120 (RHD)	Instrument Panel Wire and Floor Wire (Instrument Panel Brace RH)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
IN1	120 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Instrument Panel Brace LH)
BA1	122 (RHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BD1	122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

: GROUND POINTS

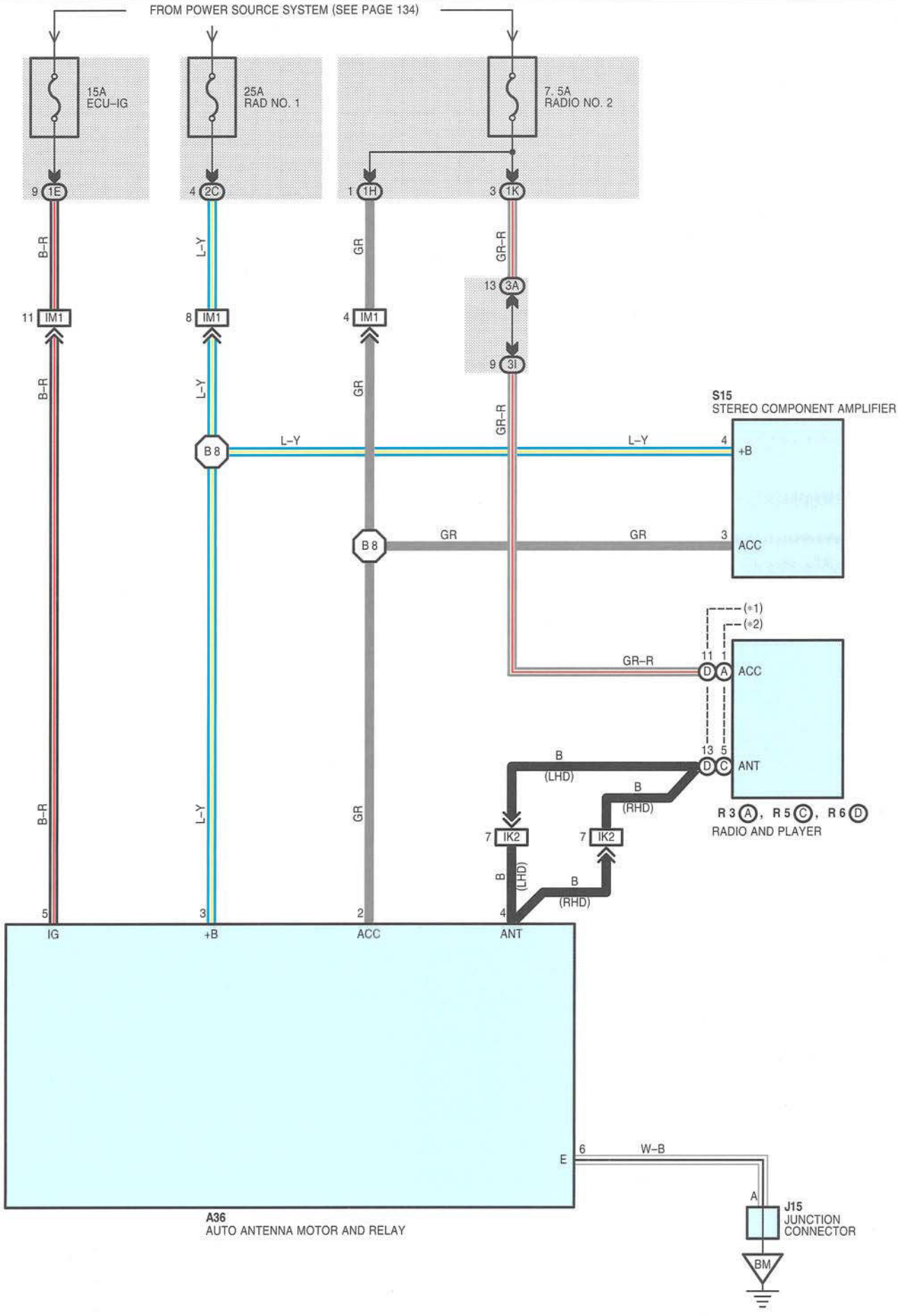
Code	See Page	Ground Points Location
IH	118 (RHD)	Instrument Panel Brace RH
BM	122 (RHD)	Under the Rear RH Seat

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I6	120 (RHD)	Instrument Panel Wire			

AUTO ANTENNA

* 1 : RHD EUROPE, LHD
* 2 : EXCEPT *1



SERVICE HINTS

A36 AUTO ANTENNA MOTOR AND RELAY

3-GROUND : Always approx. **12** volts
5-GROUND : Approx. **12** volts with the ignition SW at **ON** position
2-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
6-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code		See Page	Code	See Page
A36	94 (LHD)	R3	A	101 (RHD)	S15	95 (LHD)
	102 (RHD)	R5	C	101 (RHD)		103 (RHD)
J15	94 (LHD)	R6	D	93 (LHD)		
	102 (RHD)			101 (RHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1H	78 (LHD)	
	80 (RHD)	
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
2C	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3I		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IK2	110 (LHD)	Floor Wire and Instrument Panel Wire (Behind the Glove Box)
	120 (RHD)	Instrument Panel Wire and Floor Wire (Instrument Panel Brace RH)
IM1	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
	120 (RHD)	

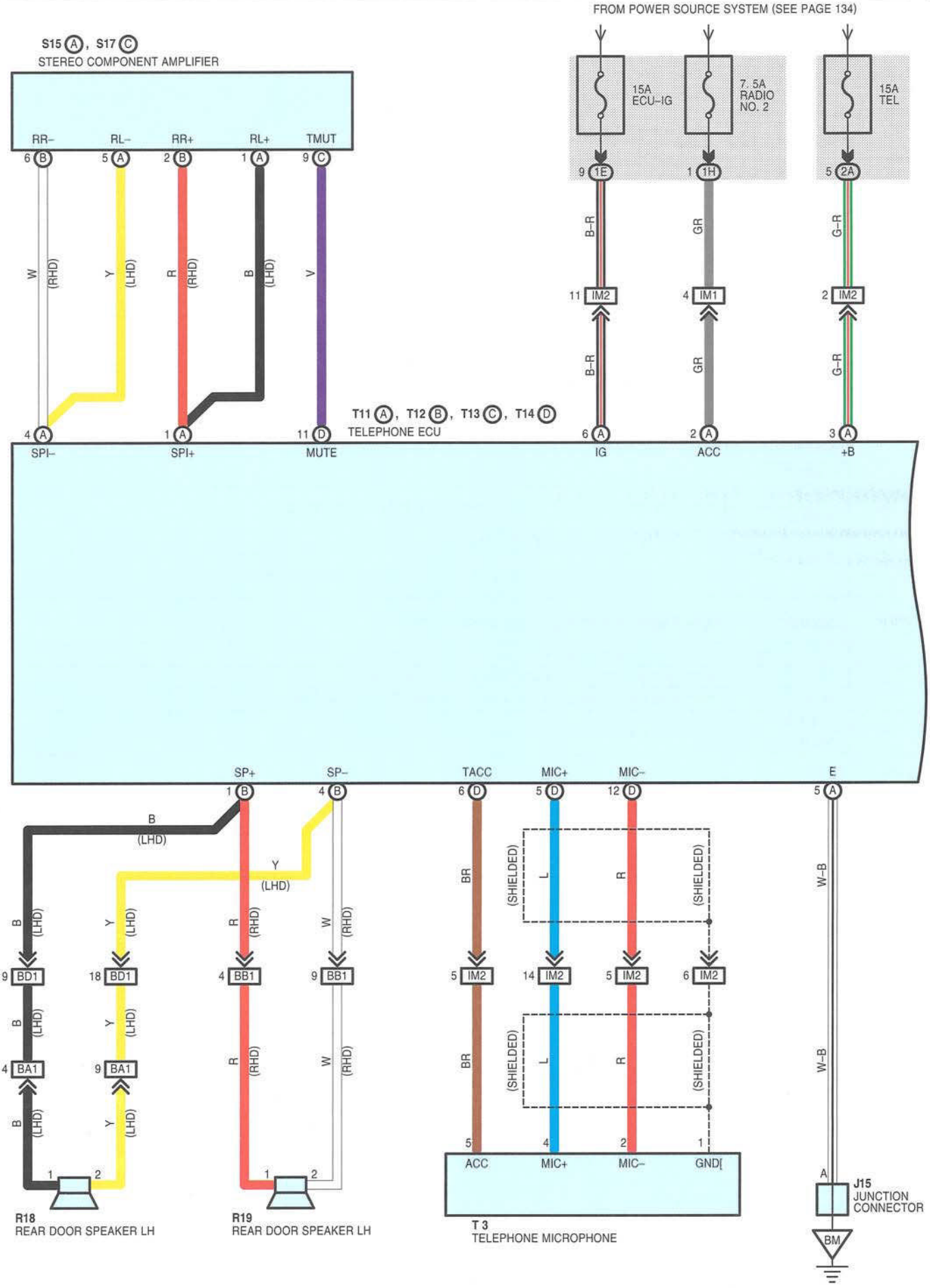
▽ : GROUND POINTS

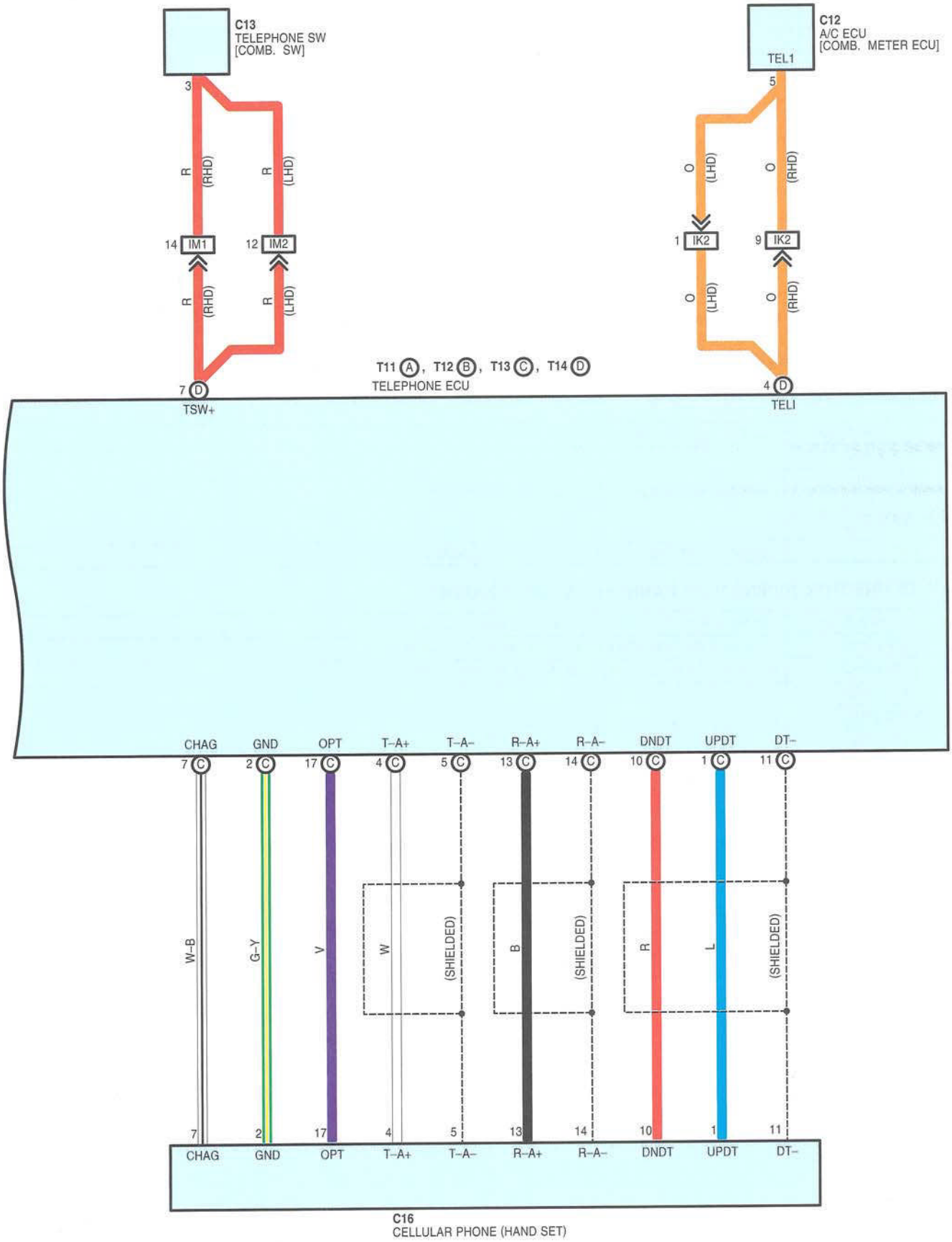
Code	See Page	Ground Points Location
BM	112 (LHD)	Under the Rear RH Seat
	122 (RHD)	

⬡ : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B8	112 (LHD)	Floor Wire	B8	122 (RHD)	Floor Wire

CELLULAR MOBILE TELEPHONE




C13
TELEPHONE SW
[COMB. SW]
3
R (RHD)
R (LHD)
14 IM1
12 IM2
R (RHD)
R (LHD)
7 D
TSW+
C12
A/C ECU
[COMB. METER ECU]
TEL1
5
O (LHD)
O (RHD)
1 IK2
9 IK2
O (LHD)
O (RHD)
4 D
TELI
T11 A, T12 B, T13 C, T14 D
TELEPHONE ECU
CHAG
GND
OPT
T–A+
T–A–
R–A+
R–A–
DNDT
UPDT
DT–
7 C
2 C
17 C
4 C
5 C
13 C
14 C
10 C
1 C
11 C
W–B
G–Y
V
W
(SHIELDED)
B
(SHIELDED)
R
L
(SHIELDED)
7
2
17
4
5
13
14
10
1
11
CHAG
GND
OPT
T–A+
T–A–
R–A+
R–A–
DNDT
UPDT
DT–
C16
CELLULAR PHONE (HAND SET)

CELLULAR MOBILE TELEPHONE

SERVICE HINTS

T11 (A) TELEPHONE ECU

(A) 3-GROUND : Always approx. **12** volts
(A) 6-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(A) 5-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C12	92 (LHD)	R18	103 (RHD)	T11 A	95 (LHD)
	100 (RHD)	R19	95 (LHD)		103 (RHD)
C13	92 (LHD)		103 (RHD)	T12 B	95 (LHD)
	100 (RHD)	S15 A	95 (LHD)		103 (RHD)
C16	92 (LHD)		103 (RHD)	T13 C	95 (LHD)
	100 (RHD)	S17 C	95 (LHD)		103 (RHD)
J15	94 (LHD)		103 (RHD)	T14 D	95 (LHD)
	102 (RHD)	T3	93 (LHD)		103 (RHD)
R18	95 (LHD)		101 (RHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1H	78 (LHD)	
	80 (RHD)	
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

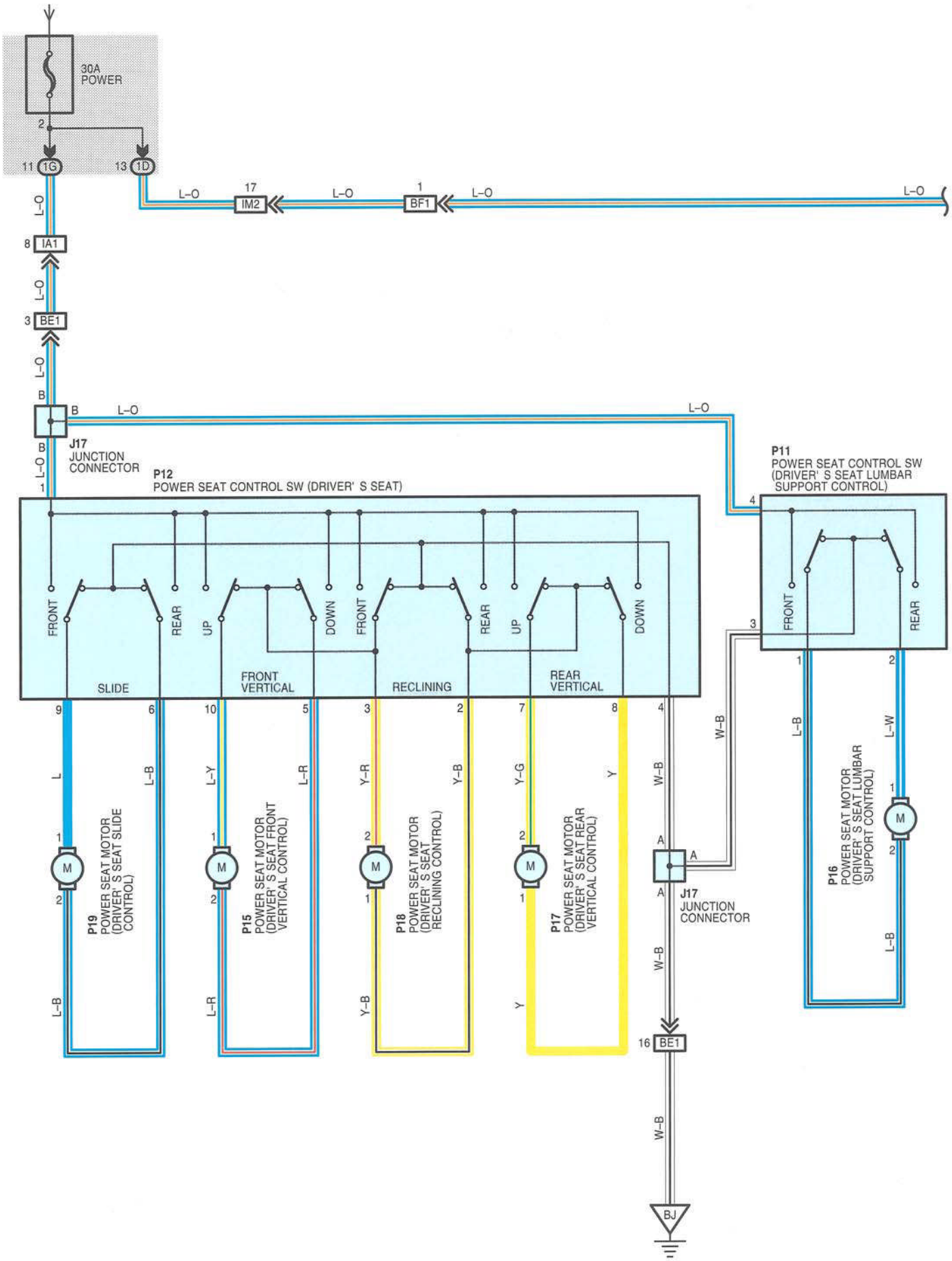
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IK2	110 (LHD)	Floor Wire and Instrument Panel Wire (Behind the Glove Box)
	120 (RHD)	Instrument Panel Wire and Floor Wire (Instrument Panel Brace RH)
IM1	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
	120 (RHD)	
IM2	110 (LHD)	
	120 (RHD)	
BA1	112 (LHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

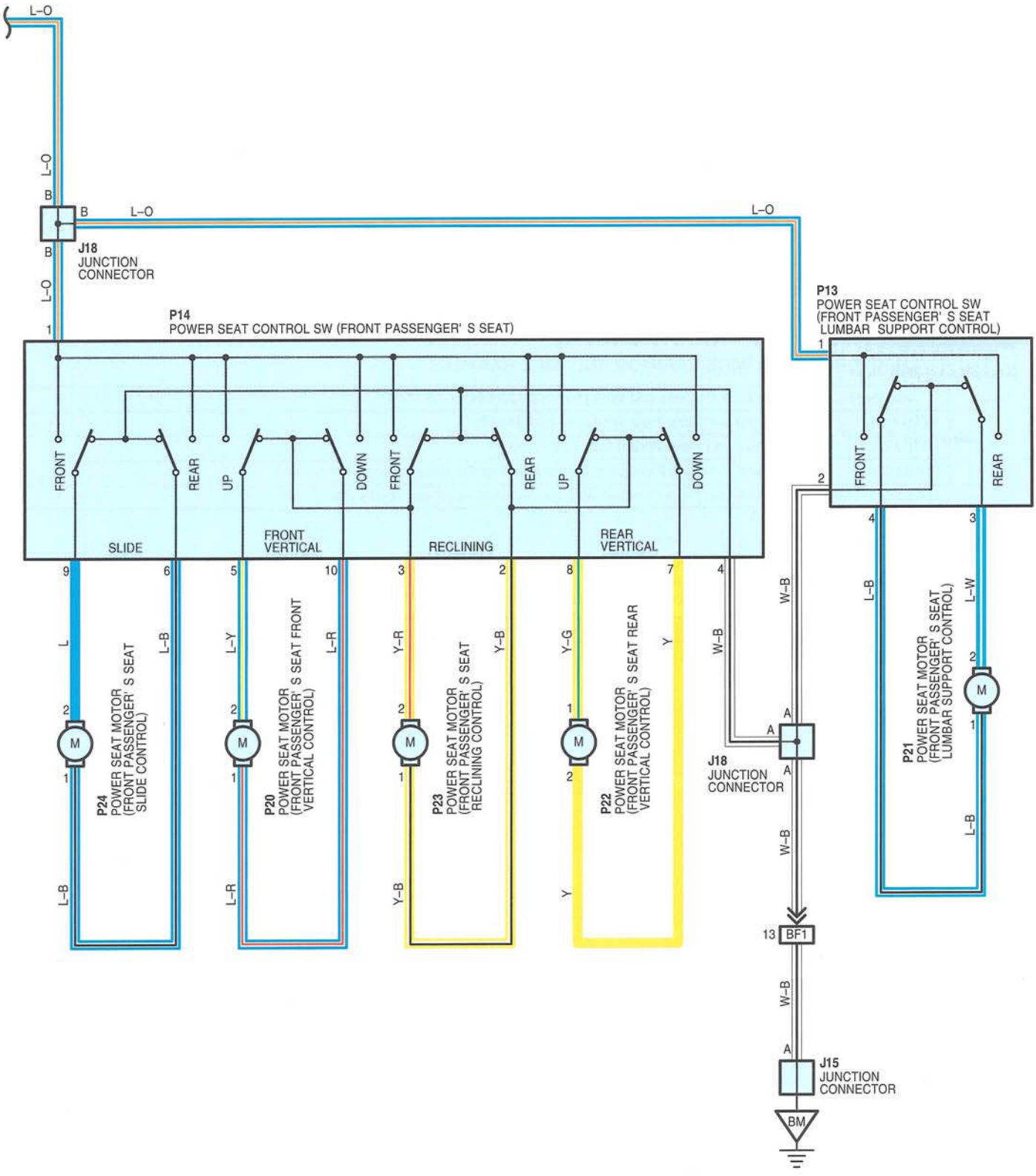
▽ : GROUND POINTS

Code	See Page	Ground Points Location
BM	112 (LHD)	Under the Rear RH Seat
	122 (RHD)	

POWER SEAT (LHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)




L-O
B
J18
JUNCTION
CONNECTOR
P14
POWER SEAT CONTROL SW (FRONT PASSENGER' S SEAT)
P13
POWER SEAT CONTROL SW
(FRONT PASSENGER' S SEAT
LUMBAR SUPPORT CONTROL)
FRONT
REAR
UP
DOWN
SLIDE
FRONT
VERTICAL
RECLINING
REAR
VERTICAL
P24
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
SLIDE CONTROL)
P20
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT FRONT
VERTICAL CONTROL)
P23
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
RECLINING CONTROL)
P22
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT REAR
VERTICAL CONTROL)
P21
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
LUMBAR SUPPORT CONTROL)
J18
JUNCTION
CONNECTOR
BF1
J15
JUNCTION
CONNECTOR
BM
W-B
L-B
L-Y
L-R
Y-R
Y-B
Y-G
Y
L-W
L

POWER SEAT (LHD)

SERVICE HINTS

P12 POWER SEAT CONTROL SW (DRIVER'S SEAT)

1-GROUND : Always approx. **12** volts
4-GROUND : Always continuity

P14 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
J15	94 (LHD)	P14	96 (LHD)	P20	96 (LHD)
J17	96 (LHD)	P15	96 (LHD)	P21	96 (LHD)
J18	96 (LHD)	P16	96 (LHD)	P22	96 (LHD)
P11	96 (LHD)	P17	96 (LHD)	P23	96 (LHD)
P12	96 (LHD)	P18	96 (LHD)	P24	96 (LHD)
P13	96 (LHD)	P19	96 (LHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		

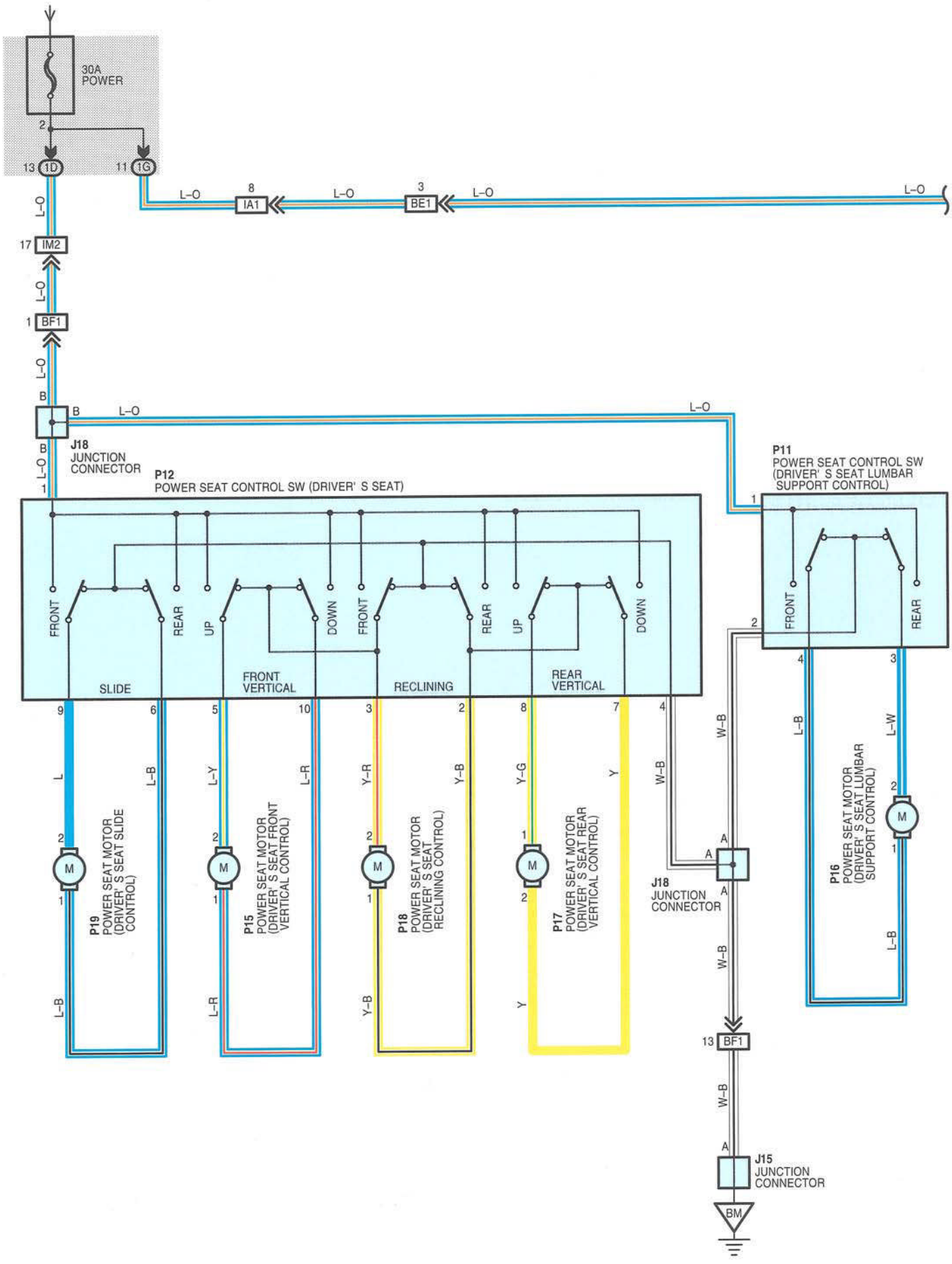
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

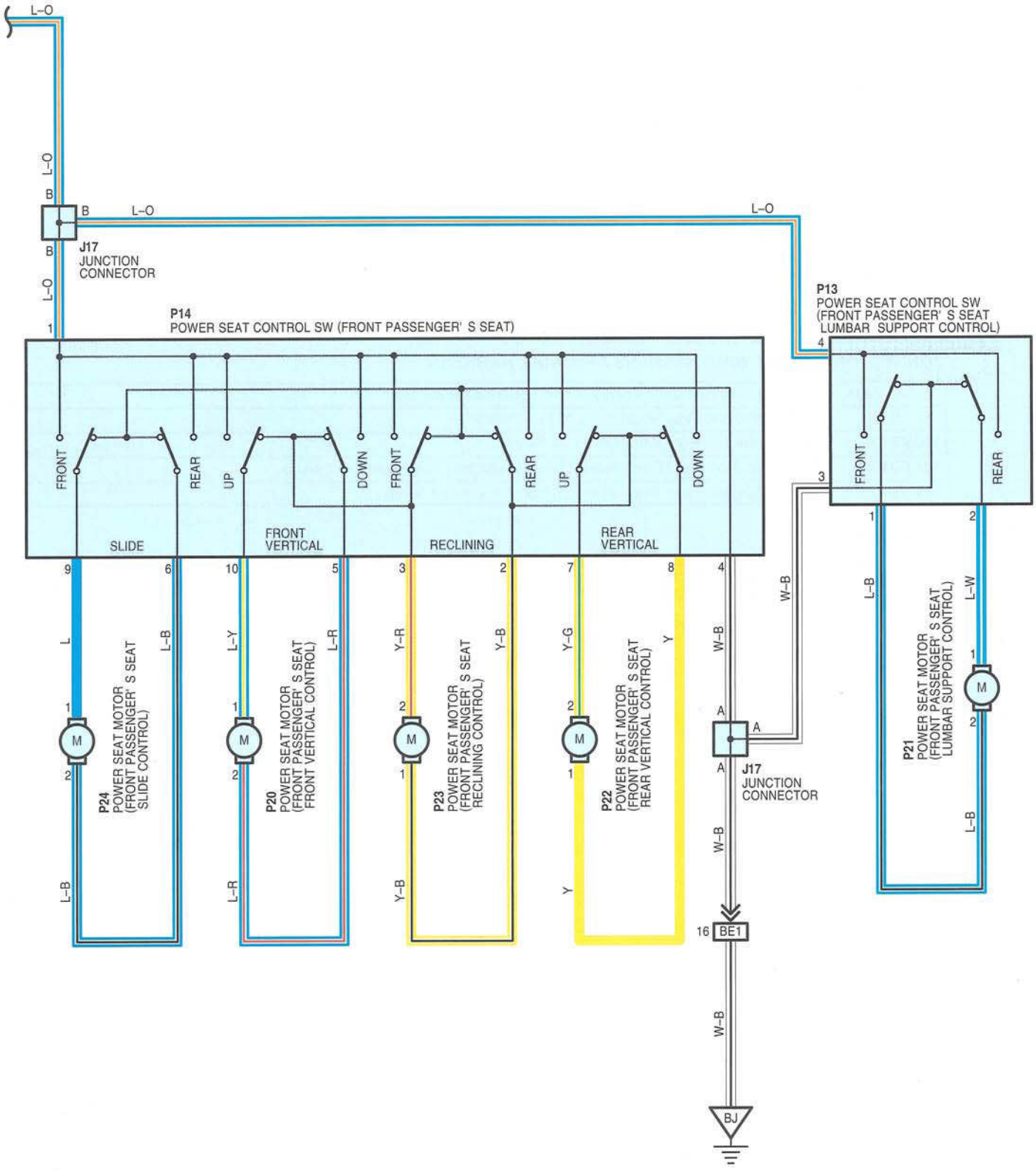
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IM2	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
BE1	114 (LHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)
BF1	114 (LHD)	Floor Wire and Front Seat RH Wire (Under the Front Passenger's Seat)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
BJ	112 (LHD)	Under the Left Center Pillar
BM	112 (LHD)	Under the Rear RH Seat

POWER SEAT (RHD)




L-O
B
J17
JUNCTION
CONNECTOR
P14
POWER SEAT CONTROL SW (FRONT PASSENGER' S SEAT)
P13
POWER SEAT CONTROL SW
(FRONT PASSENGER' S SEAT
LUMBAR SUPPORT CONTROL)
FRONT
REAR
UP
DOWN
SLIDE
FRONT
VERTICAL
RECLINING
REAR
VERTICAL
P24
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
SLIDE CONTROL)
P20
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
FRONT VERTICAL CONTROL)
P23
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
RECLINING CONTROL)
P22
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
REAR VERTICAL CONTROL)
P21
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
LUMBAR SUPPORT CONTROL)
J17
JUNCTION
CONNECTOR
BE1
BJ
W-B
L-B
L-O
L
L-Y
L-R
Y-R
Y-B
Y-G
Y
L-W

POWER SEAT (RHD)

SERVICE HINTS

P12 POWER SEAT CONTROL SW (DRIVER'S SEAT)

1-GROUND : Always approx. **12** volts
4-GROUND : Always continuity

P14 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
J15	102 (RHD)	P14	104 (RHD)	P20	104 (RHD)
J17	104 (RHD)	P15	104 (RHD)	P21	104 (RHD)
J18	104 (RHD)	P16	104 (RHD)	P22	104 (RHD)
P11	104 (RHD)	P17	104 (RHD)	P23	104 (RHD)
P12	104 (RHD)	P18	104 (RHD)	P24	104 (RHD)
P13	104 (RHD)	P19	104 (RHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		

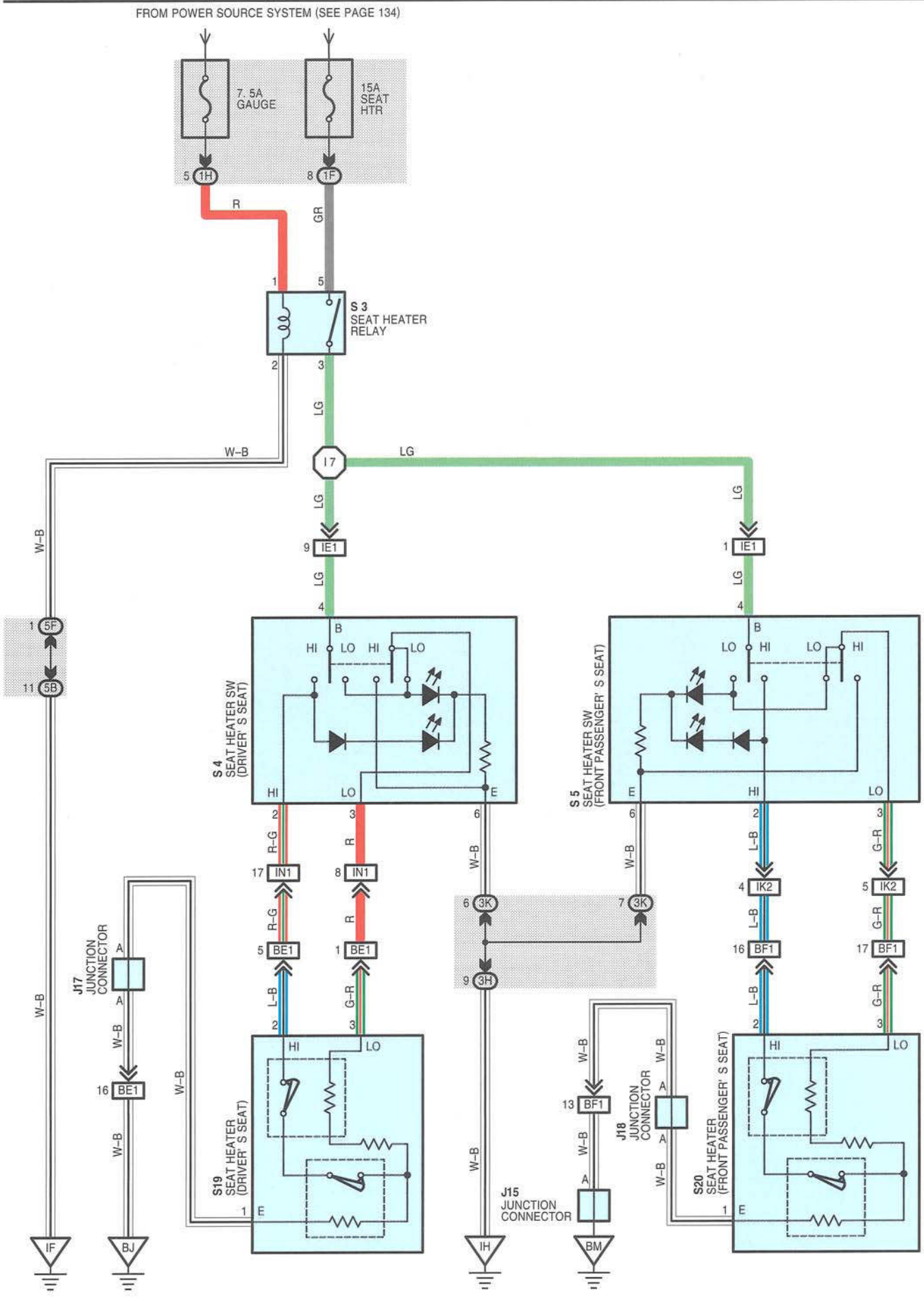
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IM2	120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
BE1	124 (RHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat)
BF1	124 (RHD)	Floor Wire and Front Seat RH Wire (Under the Driver's Seat)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
BJ	122 (RHD)	Under the Left Center Pillar
BM	122 (RHD)	Under the Rear RH Seat

SEAT HEATER (LHD)



SERVICE HINTS

S4, S5 SEAT HEATER SW (DRIVER'S SEAT), (FRONT PASSENGER'S SEAT)

4-GROUND : Approx. **12** volts with the ignition SW at **ON** position

6-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J15	94 (LHD)	S3	93 (LHD)	S19	96 (LHD)
J17	96 (LHD)	S4	93 (LHD)	S20	96 (LHD)
J18	96 (LHD)	S5	93 (LHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F 1H	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
3H 3K	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
5B 5F	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IK2	110 (LHD)	Floor Wire and Instrument Panel Wire (Behind the Glove Box)
IN1	110 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Instrument Panel Brace LH)
BE1	114 (LHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)
BF1	114 (LHD)	Floor Wire and Front Seat RH Wire (Under the Front Passenger's Seat)

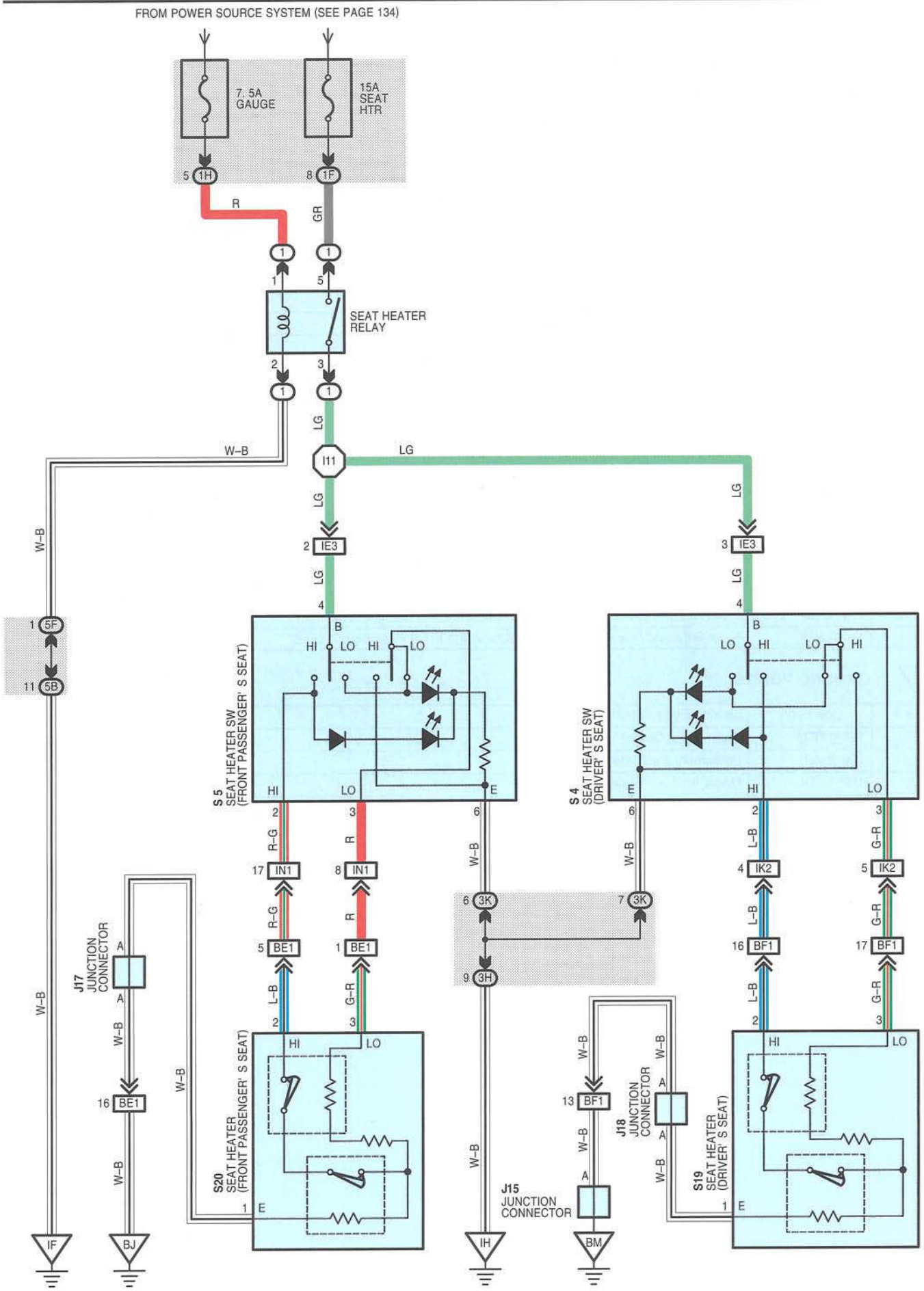
▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	108 (LHD)	Dash Panel Center
IH	108 (LHD)	Instrument Panel Brace RH
BJ	112 (LHD)	Under the Left Center Pillar
BM	112 (LHD)	Under the Rear RH Seat

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I7	110 (LHD)	Cowl Wire			

SEAT HEATER (RHD)



SERVICE HINTS

S4, S5 SEAT HEATER SW (DRIVER'S SEAT), (FRONT PASSENGER'S SEAT)

4–GROUND : Approx. **12** volts with the ignition SW at **ON** position

6–GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J15	102 (RHD)	S4	101 (RHD)	S20	104 (RHD)
J17	104 (RHD)	S5	101 (RHD)		
J18	104 (RHD)	S19	104 (RHD)		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	87	R/B No.1 (Lower Finish Panel)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
3H	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3K		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5F		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE3	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IK2	120 (RHD)	Instrument Panel Wire and Floor Wire (Instrument Panel Brace RH)
IN1	120 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Instrument Panel Brace LH)
BE1	124 (RHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat)
BF1	124 (RHD)	Floor Wire and Front Seat RH Wire (Under the Driver's Seat)

: GROUND POINTS

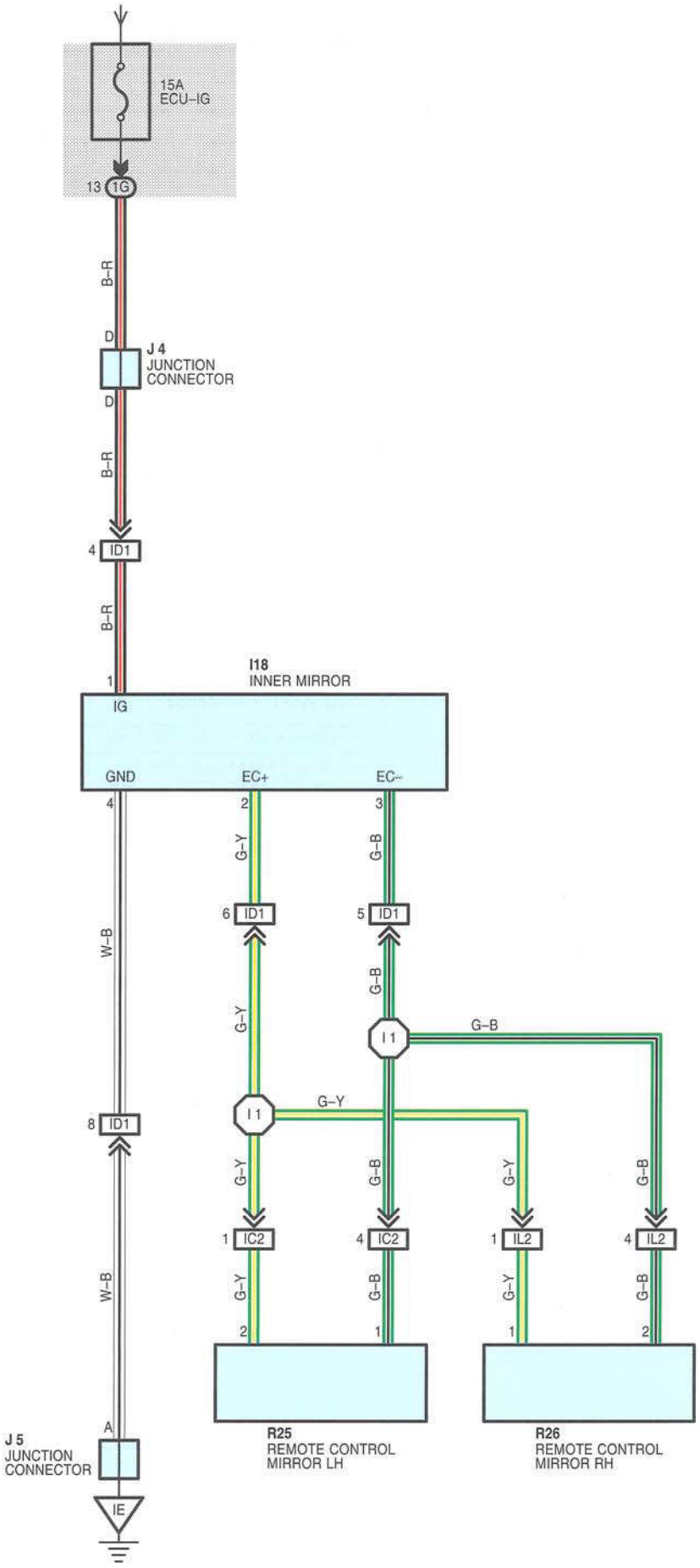
Code	See Page	Ground Points Location
IF	118 (RHD)	Dash Panel Center
IH	118 (RHD)	Instrument Panel Brace RH
BJ	122 (RHD)	Under the Left Center Pillar
BM	122 (RHD)	Under the Rear RH Seat

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I11	120 (RHD)	Cowl Wire			

AUTOMATIC GLARE-RESISTANT EC MIRROR

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



SERVICE HINTS

I18 INNER MIRROR

1-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
I18	94 (LHD)	J5	93 (LHD)	R26	95 (LHD)
	102 (RHD)		101 (RHD)		103 (RHD)
J4	93 (LHD)	R25	95 (LHD)		
	101 (RHD)		103 (RHD)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
	118 (RHD)	
ID1	108 (LHD)	Roof Wire and Cowl Wire (Left Side of Instrument Panel)
	118 (RHD)	
IL2	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
	120 (RHD)	

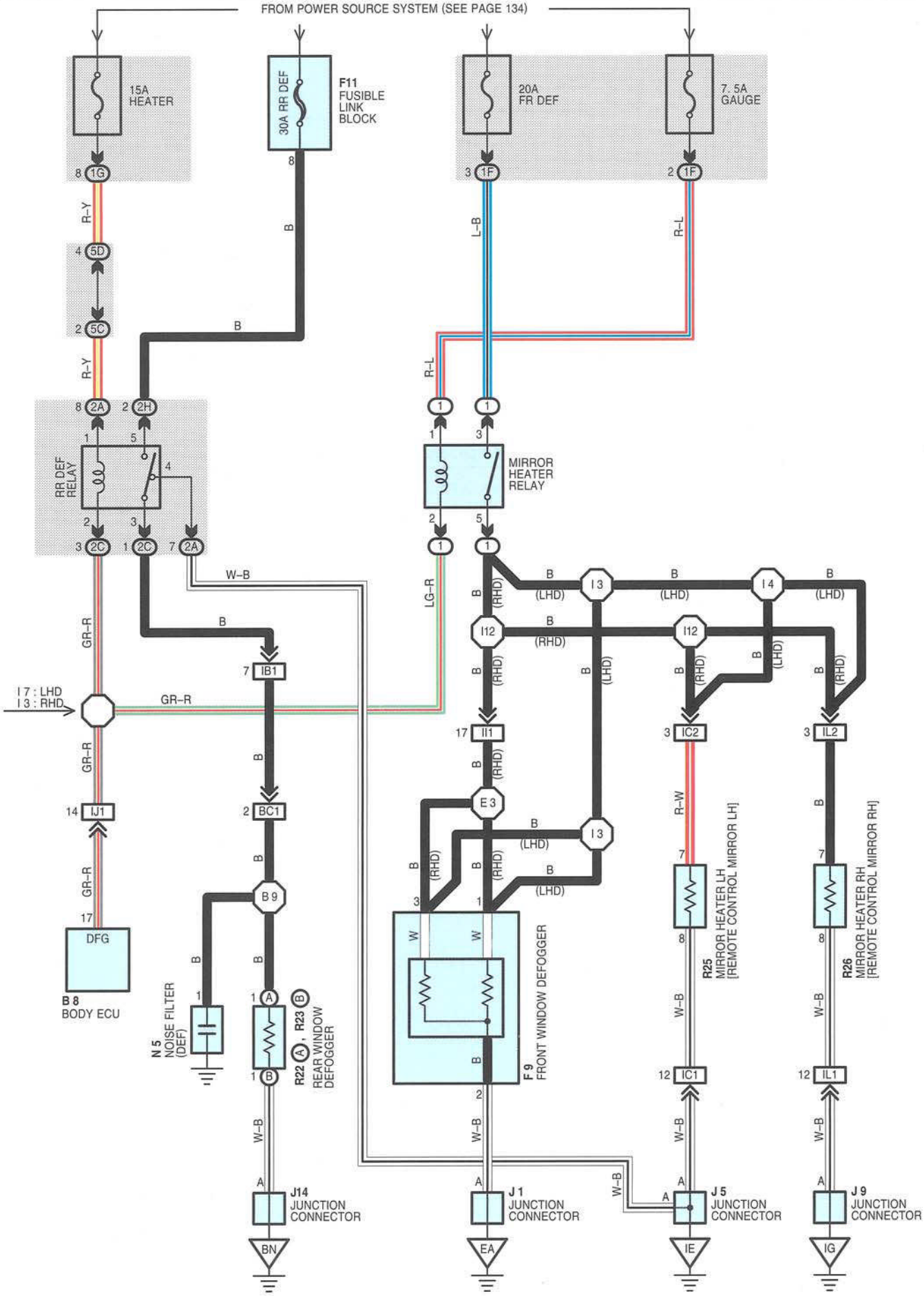
▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	108 (LHD)	Cowl Side Panel LH
	118 (RHD)	

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I1	110 (LHD)	Cowl Wire	I1	120 (RHD)	Cowl Wire

MIRROR HEATER AND WINDOW DEFOGGER



SERVICE HINTS

RR DEF RELAY

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

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code		See Page
B8	92 (LHD)	J5	93 (LHD)	R22	A	95 (LHD)
	100 (RHD)		101 (RHD)			103 (RHD)
F9	90 (LHD)	J9	93 (LHD)	R23	B	95 (LHD)
	98 (RHD)		101 (RHD)			103 (RHD)
F11	90 (LHD)	J14	94 (LHD)	R25		95 (LHD)
	98 (RHD)		102 (RHD)			103 (RHD)
J1	91 (LHD)	N5	94 (LHD)	R26		95 (LHD)
	99 (RHD)		102 (RHD)			103 (RHD)

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	87	R/B No.1 (Lower Finish Panel)

▭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1G	78 (LHD)	
	80 (RHD)	
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2C		
2H	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
5C	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5D		

▭ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	108 (LHD)	Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
	118 (RHD)	
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
	118 (RHD)	
IC2	108 (LHD)	
	118 (RHD)	
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
	120 (RHD)	
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
	120 (RHD)	
IL1	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
	120 (RHD)	
IL2	110 (LHD)	
	120 (RHD)	
BC1	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
	122 (RHD)	

MIRROR HEATER AND WINDOW DEFOGGER

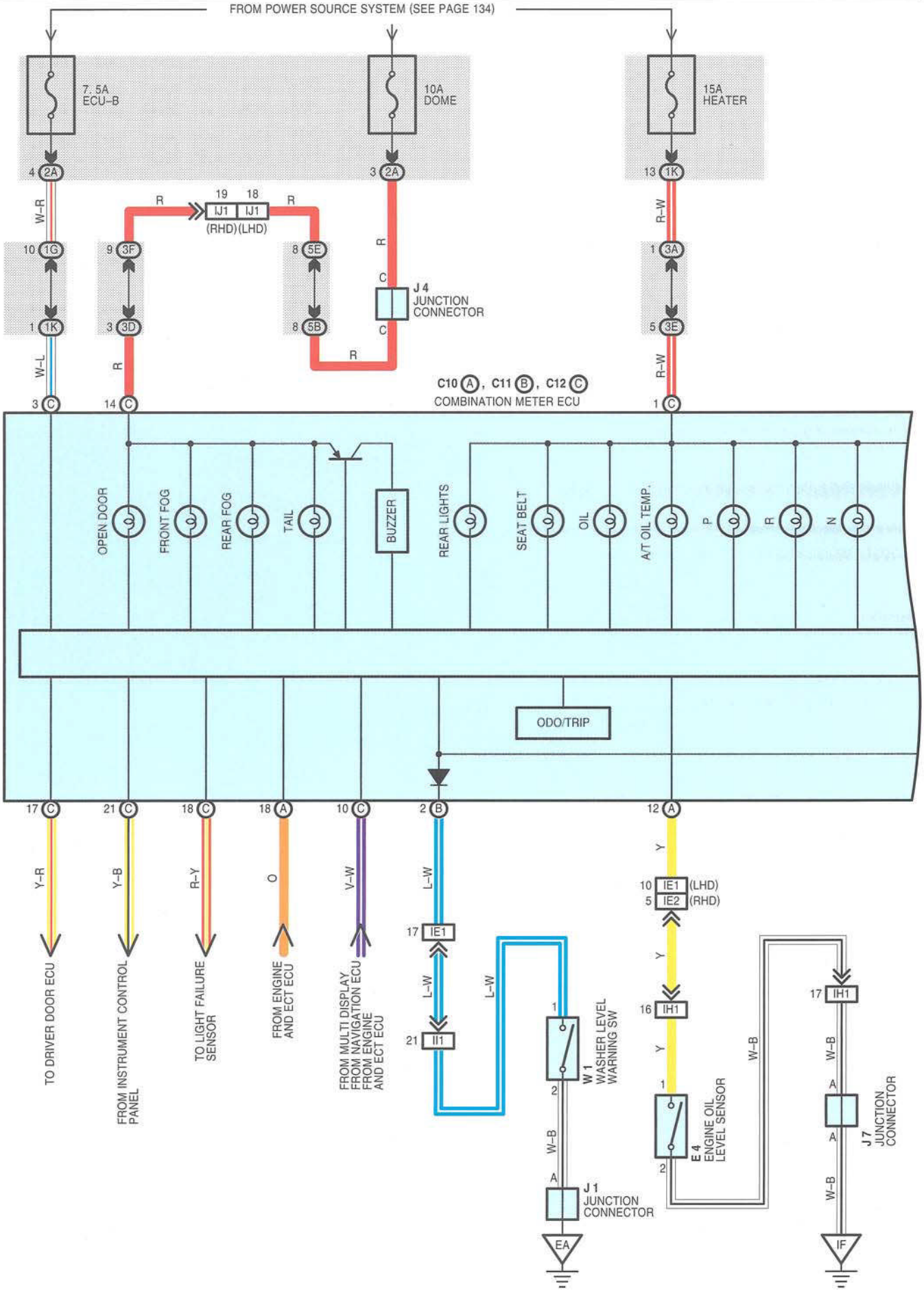
 : GROUND POINTS

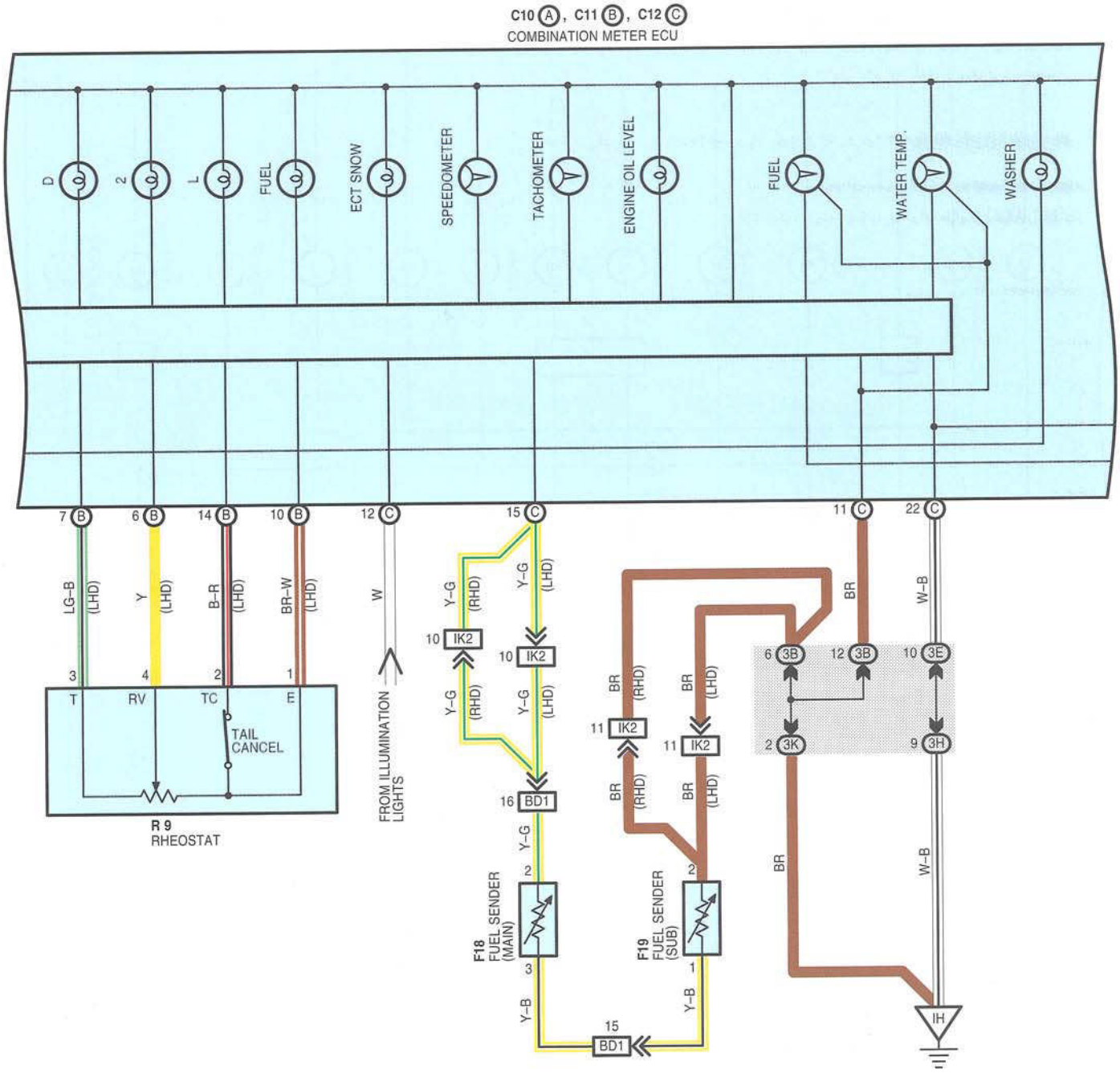
Code	See Page	Ground Points Location
EA	106 (LHD)	Engine Compartment Right
	116 (RHD)	
IE	108 (LHD)	Cowl Side Panel LH
	118 (RHD)	
IG	108 (LHD)	Cowl Side Panel RH
	118 (RHD)	
BN	112 (LHD)	Back Panel Center
	122 (RHD)	

 : SPLICE POINTS

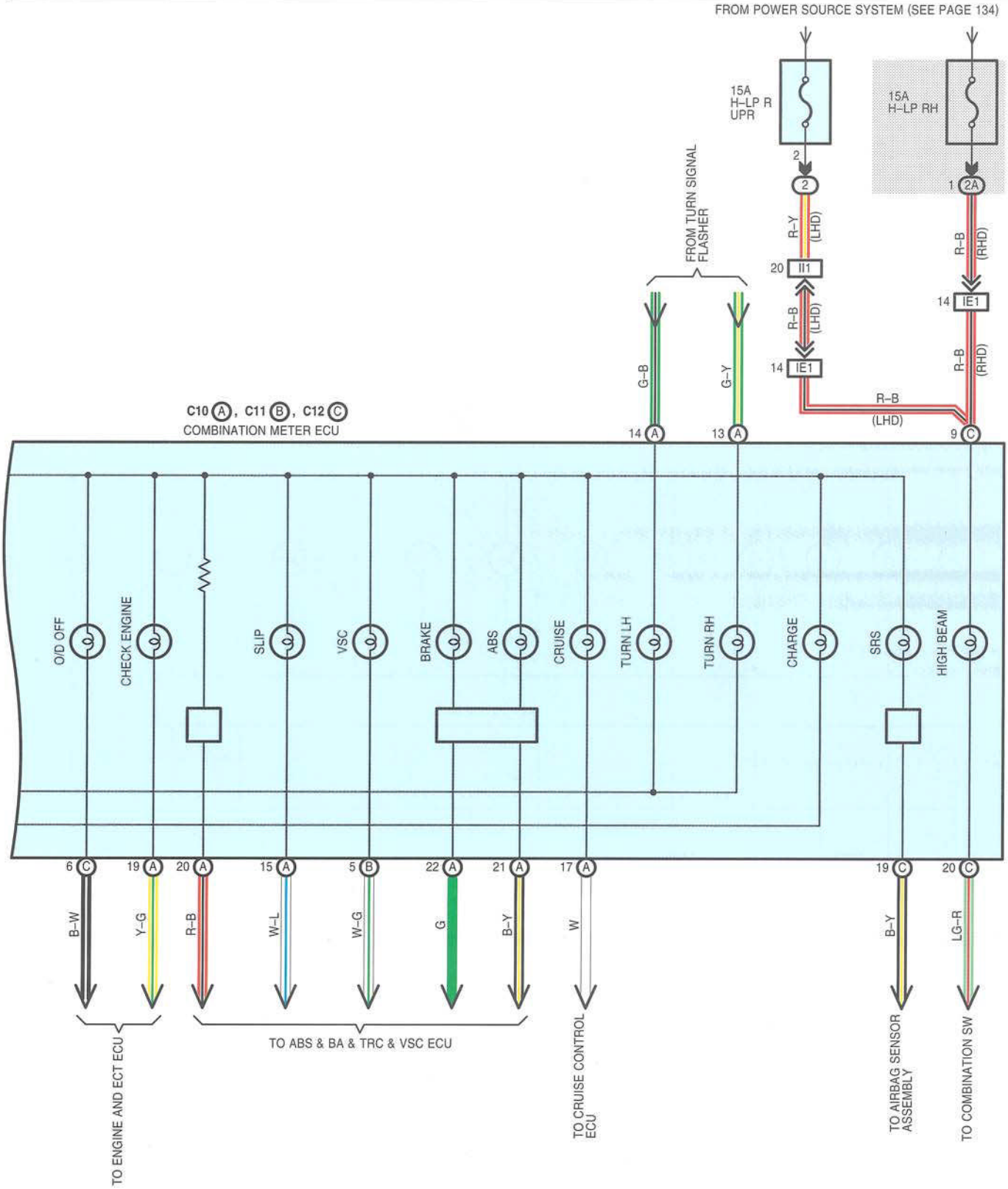
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E3	116 (RHD)	Engine Room Main Wire	I7	110 (LHD)	Cowl Wire
I3	110 (LHD)	Cowl Wire	I12	120 (RHD)	
	120 (RHD)		B9	112 (LHD)	Back Door No.1 Wire
I4	110 (LHD)			122 (RHD)	

COMBINATION METER




C10 (A), C11 (B), C12 (C)
COMBINATION METER ECU
D
2
L
FUEL
ECT SNOW
SPEEDOMETER
TACHOMETER
ENGINE OIL LEVEL
FUEL
WATER TEMP.
WASHER
7 (B)
6 (B)
14 (B)
10 (B)
12 (C)
15 (C)
11 (C)
22 (C)
LG–B (LHD)
Y (LHD)
B–R (LHD)
BR–W (LHD)
W
Y–G (RHD)
Y–G (LHD)
BR
W–B
3
4
2
1
T
RV
TC
E
TAIL CANCEL
R 9
RHEOSTAT
FROM ILLUMINATION LIGHTS
10 IK2
16 BD1
11 IK2
6 3B
12 3B
10 3E
2 3K
9 3H
F18
FUEL SENDER (MAIN)
F19
FUEL SENDER (SUB)
3
1
15 BD1
IH

COMBINATION METER



SERVICE HINTS

C12 (C) COMBINATION METER ECU

(C)14-GROUND : Always approx. **12** volts
(C) 1-GROUND : Approx. **12** volts with the ignition SW at **ON** position
(C)11-GROUND : Always continuity
(C)22-GROUND : Always continuity

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
C10	A	92 (LHD)	E4	98 (RHD)	J4	93 (LHD)
		100 (RHD)	F18	94 (LHD)		101 (RHD)
C11	B	92 (LHD)		102 (RHD)	J7	93 (LHD)
		100 (RHD)	F19	94 (LHD)		101 (RHD)
C12	C	92 (LHD)		102 (RHD)	R9	93 (LHD)
		100 (RHD)	J1	91 (LHD)	W1	91 (LHD)
E4		90 (LHD)		99 (RHD)		99 (RHD)

⬭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	88	R/B No.2 (Engine Compartment Left)

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3D		
3E		
3F		
3H		
3K		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5E		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

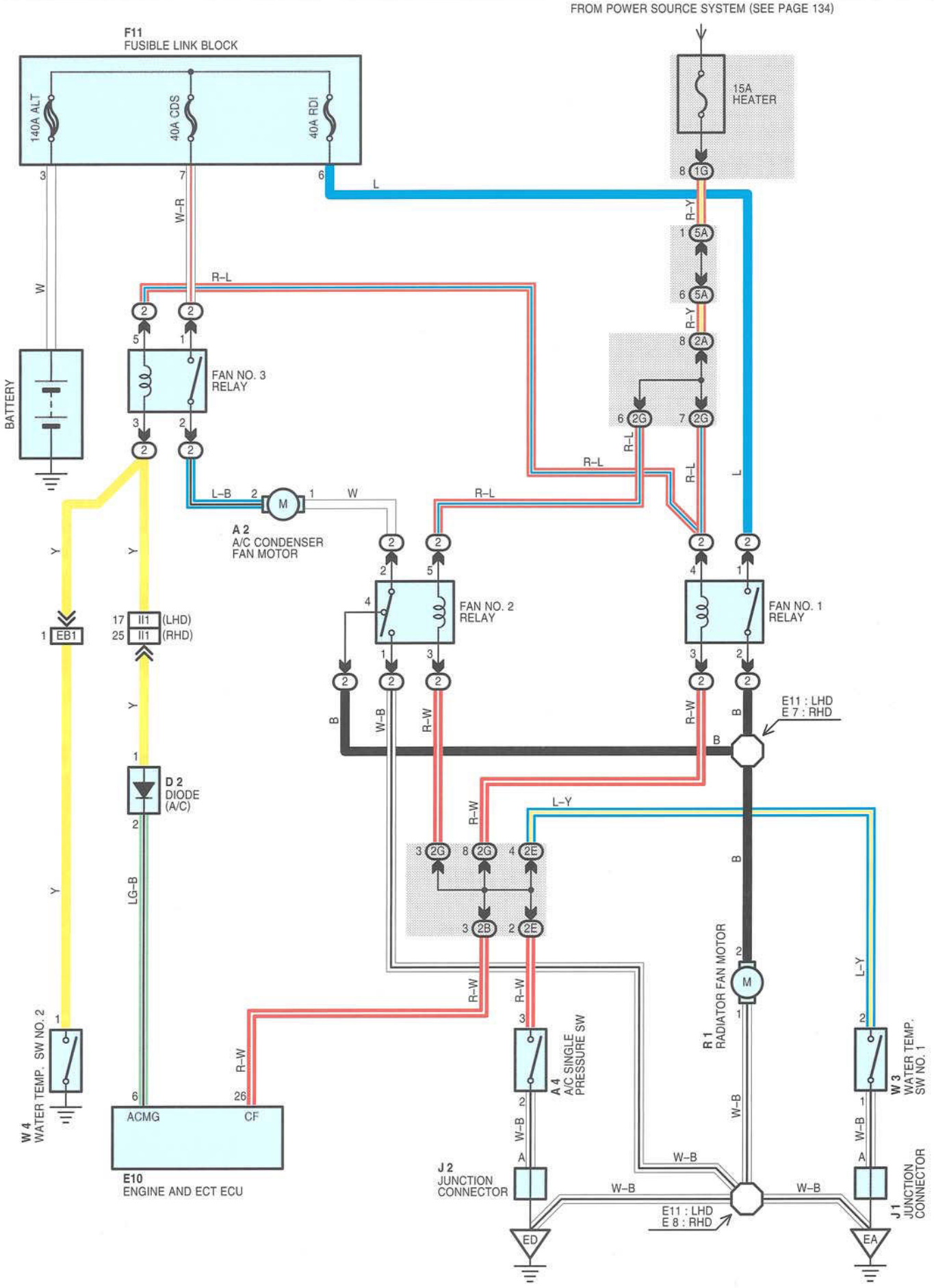
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
	118 (RHD)	
IE2	118 (RHD)	
IH1	110 (LHD)	Engine Wire and Cowl Wire (Behind the Glove Box)
	120 (RHD)	
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
	120 (RHD)	
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
	120 (RHD)	
IK2	110 (LHD)	Floor Wire and Instrument Panel Wire (Behind the Glove Box)
	120 (RHD)	Instrument Panel Wire and Floor Wire (Instrument Panel Brace RH)
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)
	122 (RHD)	

COMBINATION METER

▽ : GROUND POINTS

Code	See Page	Ground Points Location
EA	106 (LHD)	Engine Compartment Right
	116 (RHD)	
IF	108 (LHD)	Dash Panel Center
	118 (RHD)	
IH	108 (LHD)	Instrument Panel Brace RH
	118 (RHD)	

RADIATOR FAN AND CONDENSER FAN



SYSTEM OUTLINE

LOW SPEED OPERATION

When the A/C system is operated, or the water temp. SW no.2 is turned on, the A/C condenser fan motor and radiator fan motor rotate at low speed.

HIGH SPEED OPERATION

When the A/C single pressure SW is turned on, or the water temp. SW no.1 is turned on, the A/C condenser fan motor and radiator fan motor rotate at high speed.

SERVICE HINTS

A4 A/C SINGLE PRESSURE SW

3–2 : Close above approx. **18.0** kgf/cm^2 (**256** psi, **1765** kpa)
Open below approx. **14.0** kgf/cm^2 (**199** psi, **1372** kpa)

W3 WATER TEMP. SW NO. 1

2–1 : Close above approx. **95**°C (**203**°F)

W4 WATER TEMP. SW NO. 2

1–GROUND : Close above approx. **90**°C (**198**°F)

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A2	90 (LHD)	E10	100 (RHD)	R1	91 (LHD)
	98 (RHD)	F11	90 (LHD)		99 (RHD)
A4	90 (LHD)		98 (RHD)	W3	91 (LHD)
	98 (RHD)	J1	91 (LHD)		99 (RHD)
D2	92 (LHD)		99 (RHD)	W4	91 (LHD)
	100 (RHD)	J2	91 (LHD)		99 (RHD)
E10	92 (LHD)		99 (RHD)		

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	88	R/B No.2 (Engine Compartment Left)

▭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
	80 (RHD)	
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2B		
2E	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
5A	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)

▭ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	106 (LHD)	Engine Wire and Engine Room Main Wire (Under the Engine Room J/B)
	116 (RHD)	
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
	120 (RHD)	

RADIATOR FAN AND CONDENSER FAN

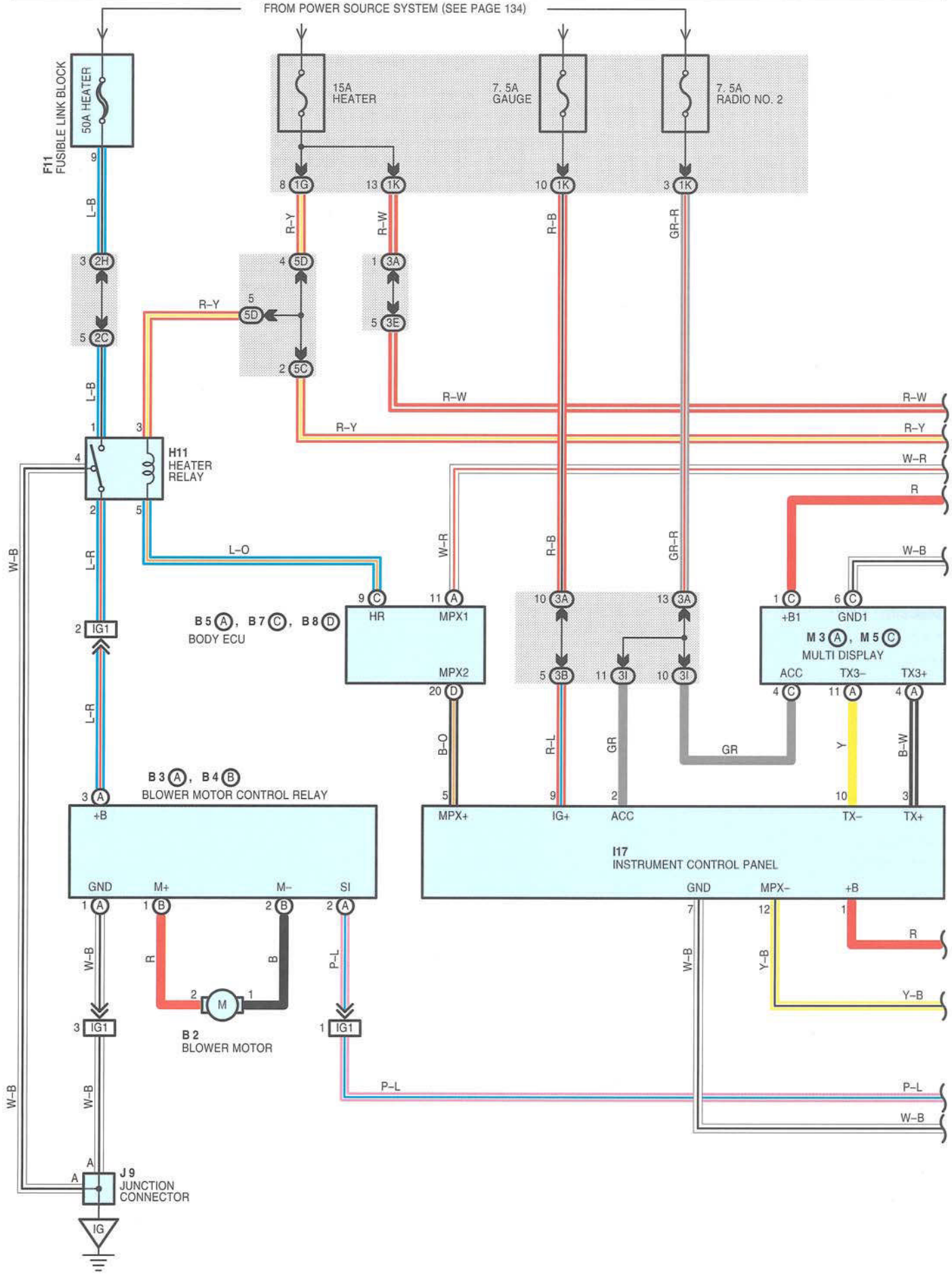
▽ : **GROUND POINTS**

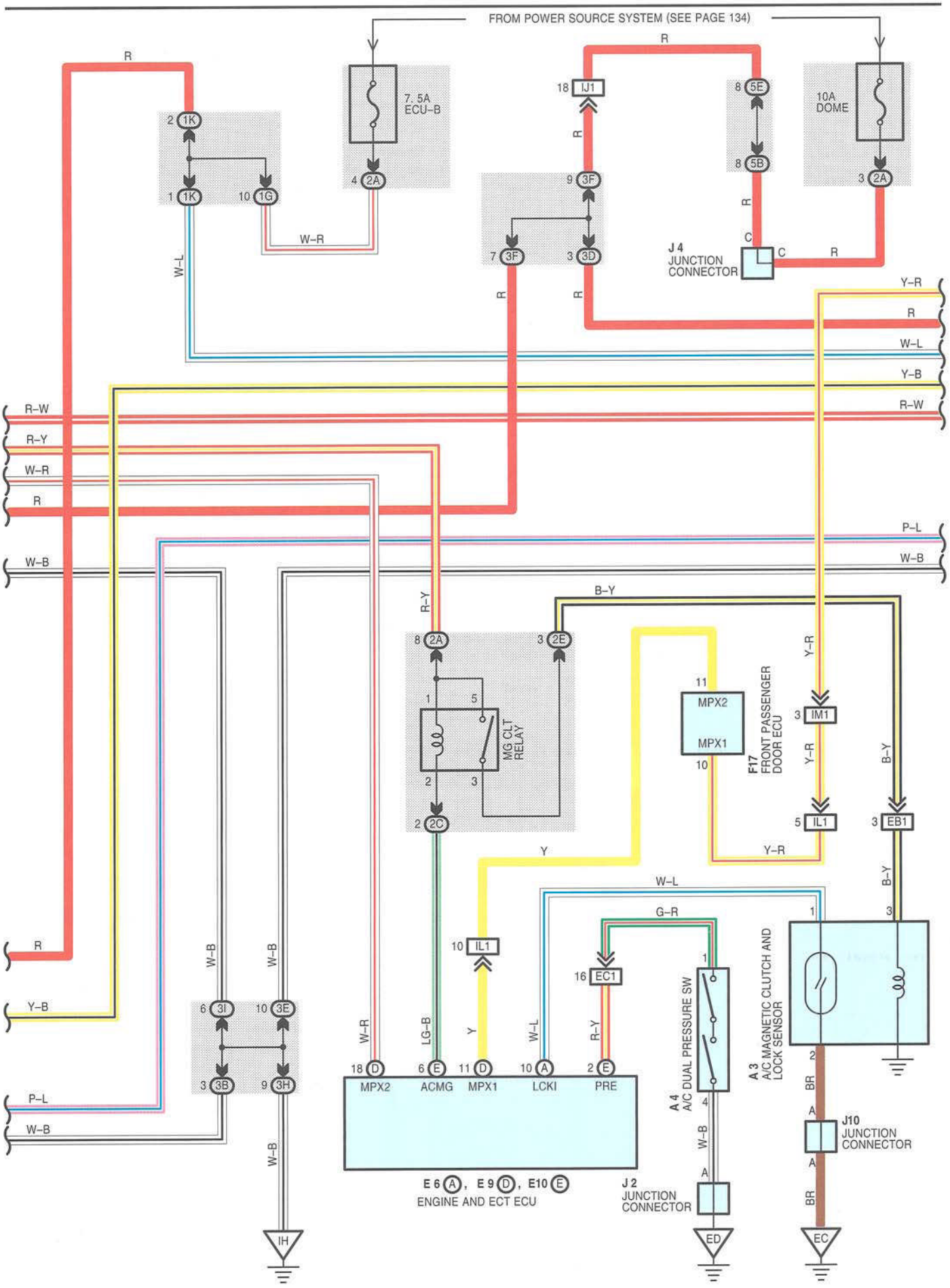
Code	See Page	Ground Points Location
EA	106 (LHD)	Engine Compartment Right
	116 (RHD)	
ED	106 (LHD)	Right Radiator Side Support
	116 (RHD)	

○ : **SPLICE POINTS**

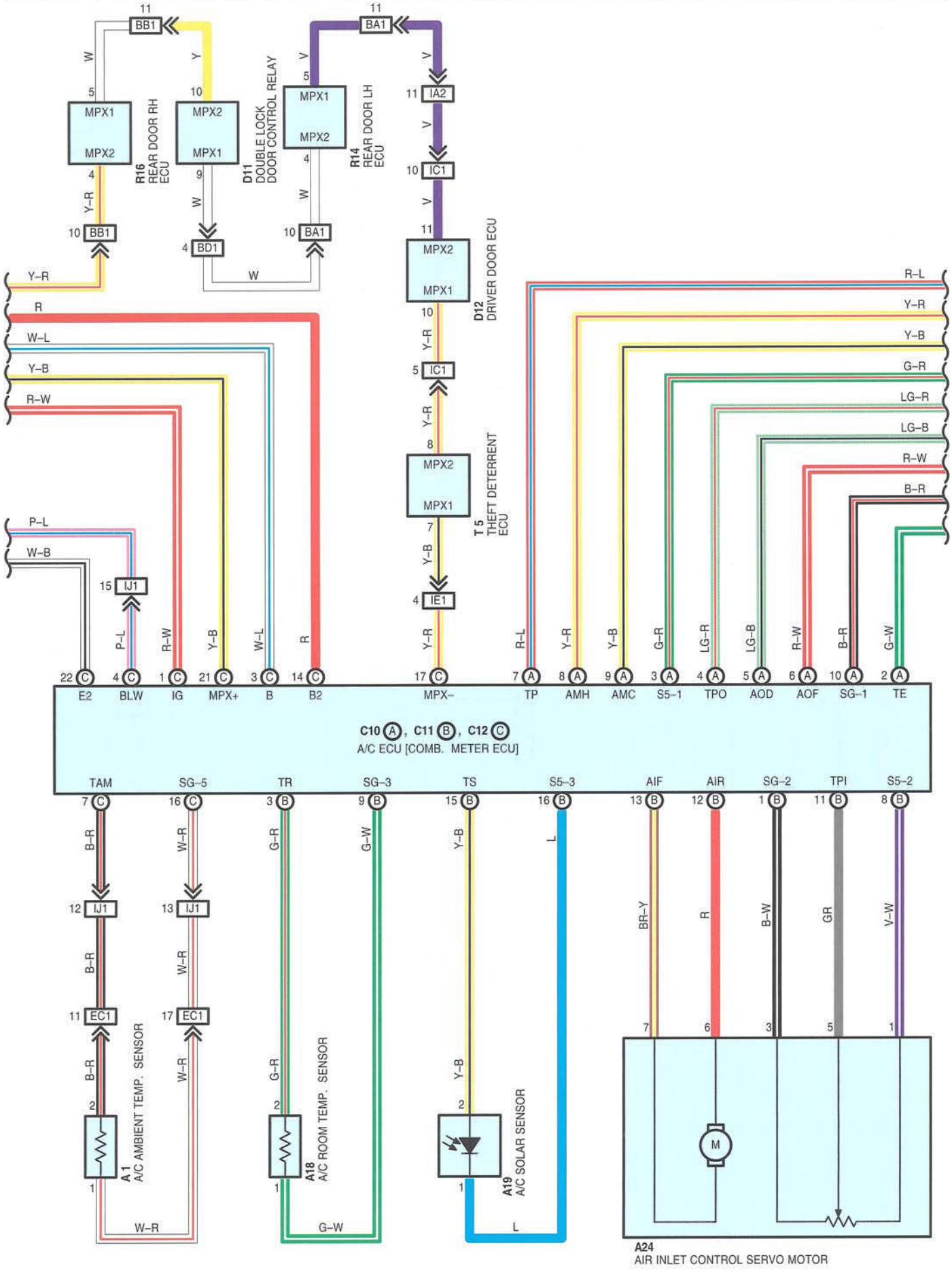
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E7	116 (RHD)	Engine Room Main Wire	E11	106 (LHD)	Engine Room Main Wire
E8					

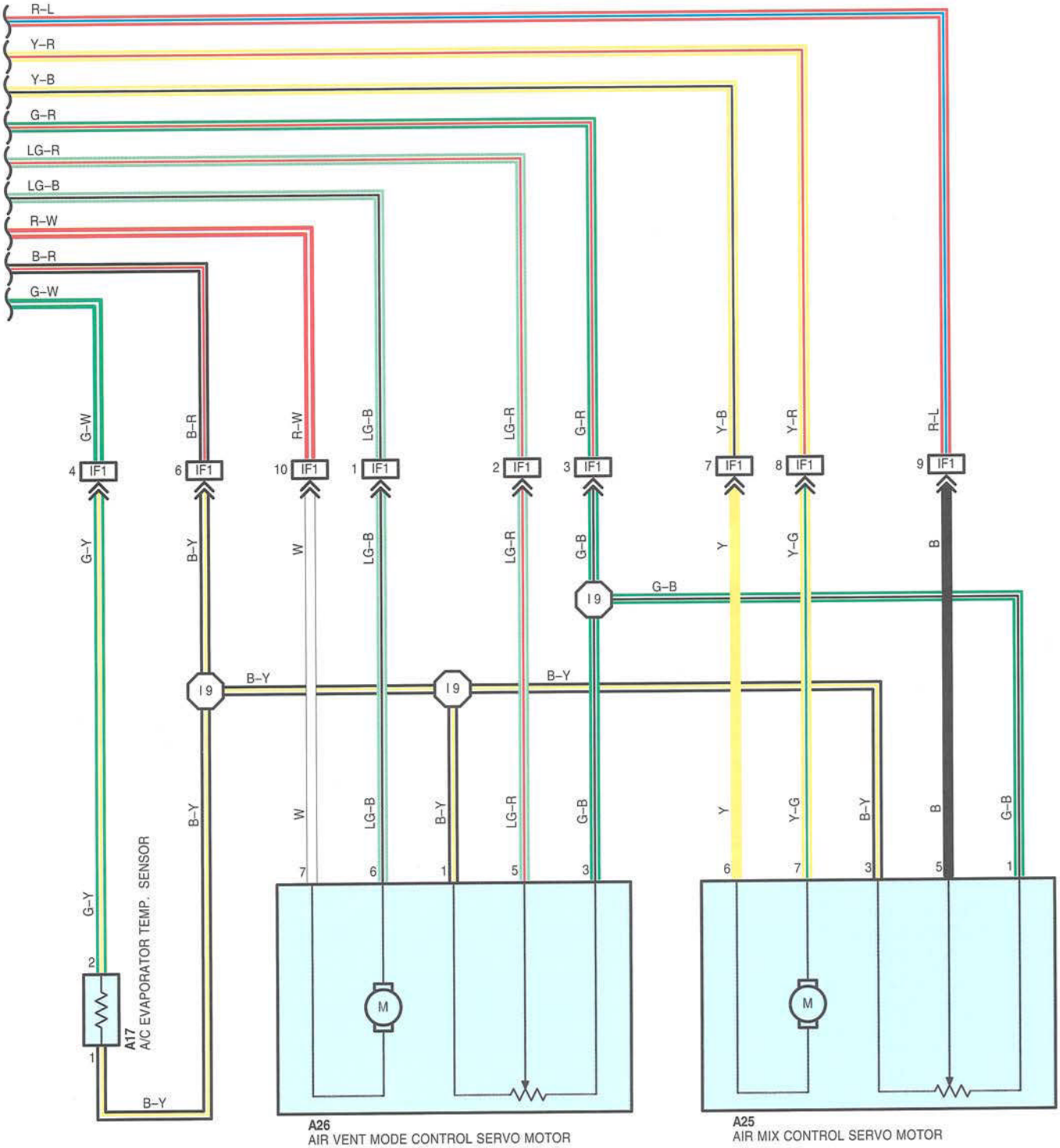
AUTOMATIC AIR CONDITIONER (LHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
7.5A ECU-B
10A DOME
J4 JUNCTION CONNECTOR
MG CLT RELAY
F17 FRONT PASSENGER DOOR ECU
MPX2
MPX1
A3 A/C MAGNETIC CLUTCH AND LOCK SENSOR
A4 A/C DUAL PRESSURE SW
J10 JUNCTION CONNECTOR
J2 JUNCTION CONNECTOR
E6 (A), E9 (D), E10 (E) ENGINE AND ECT ECU
MPX2 ACMG MPX1 LCKI PRE
IH
ED
EC

AUTOMATIC AIR CONDITIONER (LHD)




R–L
Y–R
Y–B
G–R
LG–R
LG–B
R–W
B–R
G–W
4 IF1
6 IF1
10 IF1
1 IF1
2 IF1
3 IF1
7 IF1
8 IF1
9 IF1
G–Y
B–Y
W
LG–B
LG–R
G–B
Y
Y–G
B
I 9
B–Y
G–B
A17
A/C EVAPORATOR TEMP. SENSOR
M
A26
AIR VENT MODE CONTROL SERVO MOTOR
A25
AIR MIX CONTROL SERVO MOTOR

AUTOMATIC AIR CONDITIONER (LHD)

SYSTEM OUTLINE

1. HEATER BLOWER OPERATION

MANUAL OPERATION

When the blower control SW is set to any blower speed, the A/C ECU sends a signal to the blower motor control relay, and controls the speed of the blower motor.

AUTO OPERATION

When the auto SW is operated, the A/C ECU sends a signal to the blower motor control relay, according to the signals from each sensors and commands from the temperature SW, and controls the blower motor speed automatically.

2. AIR INLET CONTROL SERVO MOTOR CONTROL

When the FRESH/RECIRC select SW is switched to RECIRC, the motor in the air inlet control servo motor rotates to move the damper to the RECIRC side. The damper position is recognized by the TERMINAL TPI of the A/C ECU, and rotates the motor until the damper reaches its position.

When the FRESH/RECIRC select SW is switched to FRESH, the motor in the air inlet control servo motor rotates to move the damper to the FRESH side. The damper position is recognized by the TERMINAL TPI of the A/C ECU, and rotates the motor until the damper reaches its position.

3. AIR VENT MODE CONTROL SERVO MOTOR CONTROL

When the mode select SW in the instrument control panel is pushed, a signal is sent from TERMINAL MPX- of the instrument control panel to TERMINAL MPX+ of the A/C ECU, and activates the air vent mode control servo motor. This causes the servo motor to rotate to the position selected using the mode select SW (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF), and moves the damper door.

4. AIR MIX CONTROL SERVO MOTOR CONTROL

When the temperature control SW in the instrument control panel is pushed, a signal is sent from TERMINAL MPX- of the instrument control panel to TERMINAL MPX+ of the A/C ECU, and activates the air mix control servo motor. The motor and damper door is moved until it reaches the temperature set by the temperature control SW.

5. AIR CONDITIONING OPERATION

The A/C ECU receives various signals, i.e., the engine RPM from the crankshaft position sensor, outlet temperature from the A/C ambient temp. sensor, coolant temperature from the water temp. sensor, and the lock signal from the A/C compressor, etc. When the engine is started and the A/C SW in the instrument control panel is pressed, a signal is input from TERMINAL MPX- of the instrument control panel to TERMINAL MPX+ of the A/C ECU. As a result, the ground circuit in the A/C ECU is closed, and the current flows from the HEATER fuse to MG CLT relay TERMINAL 1 to TERMINAL 2 to TERMINAL ACMG of the engine and ECT ECU to TERMINAL MPX2 to TERMINAL MPX1 of the body ECU to TERMINAL MPX2 to TERMINAL MPX+ of the instrument control panel to TERMINAL MPX- to TERMINAL MPX+ of the A/C ECU to TERMINAL E2 to GROUND, turning the A/C magnetic clutch on so that A/C compressor operates. In addition, when the engine and ECT ECU detects that the magnetic clutch is on and the A/C compressor is operating, it controls the engine in the direction to avoid lowering the engine rpm during A/C operation.

When any of the following signals are sent to the A/C ECU, the A/C is turned off.

* Coolant temp. is high.
* Outlet air temp. is low.
* Large difference between the engine speed and compressor speed.
* The refrigerant pressure is abnormally high or low.

SERVICE HINTS

A4 A/C DUAL PRESSURE SW

1-4 : Open with the refrigerant pressure at less than approx. **2.0** kgf/cm^2 (**31** psi, **196** kpa) or more than approx. **32** kgf/cm^2 (**455** psi, **3138** kpa)

C10 (A), C11 (B), C12 (C) A/C ECU [COMB. METER ECU]

B-GROUND : Always approx. **12** volts
B2-GROUND : Always approx. **12** volts
AIF-GROUND : Approx. **12** volts with the FRESH SW on
AIR-GROUND : Approx. **12** volts with the RECIRC SW on
E2-GROUND : Always continuity

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
A1		90 (LHD)	B5	A	92 (LHD)	F17		94 (LHD)
A3		90 (LHD)	B7	C	92 (LHD)	H11		93 (LHD)
A4		90 (LHD)	B8	D	92 (LHD)	I17		93 (LHD)
A17		92 (LHD)	C10	A	92 (LHD)	J2		91 (LHD)
A18		92 (LHD)	C11	B	92 (LHD)	J4		93 (LHD)
A19		92 (LHD)	C12	C	92 (LHD)	J9		93 (LHD)
A24		92 (LHD)	D11		94 (LHD)	J10		93 (LHD)
A25		92 (LHD)	D12		94 (LHD)	M3	A	93 (LHD)
A26		92 (LHD)	E6	A	92 (LHD)	M5	C	93 (LHD)
B2		92 (LHD)	E9	D	92 (LHD)	R14		95 (LHD)
B3	A	92 (LHD)	E10	E	92 (LHD)	R16		95 (LHD)
B4	B	92 (LHD)	F11		90 (LHD)	T5		93 (LHD)

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	78 (LHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2C		
2E	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3D		
3E		
3F		
3H		
3I		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5C		
5D		
5E		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	106 (LHD)	Engine Wire and Engine Room Main Wire (Under the Engine Room J/B)
EC1	106 (LHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IA2	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IF1	108 (LHD)	Instrument Panel Wire and A/C Sub No.2 Wire (Instrument Panel Brace RH)
IG1	110 (LHD)	Cowl Wire and A/C Sub No.1 Wire (Instrument Panel Brace RH)
IJ1	110 (LHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	110 (LHD)	Cowl Wire and Floor Wire (Right Kick Panel)
BA1	112 (LHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BD1	112 (LHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

AUTOMATIC AIR CONDITIONER (LHD)

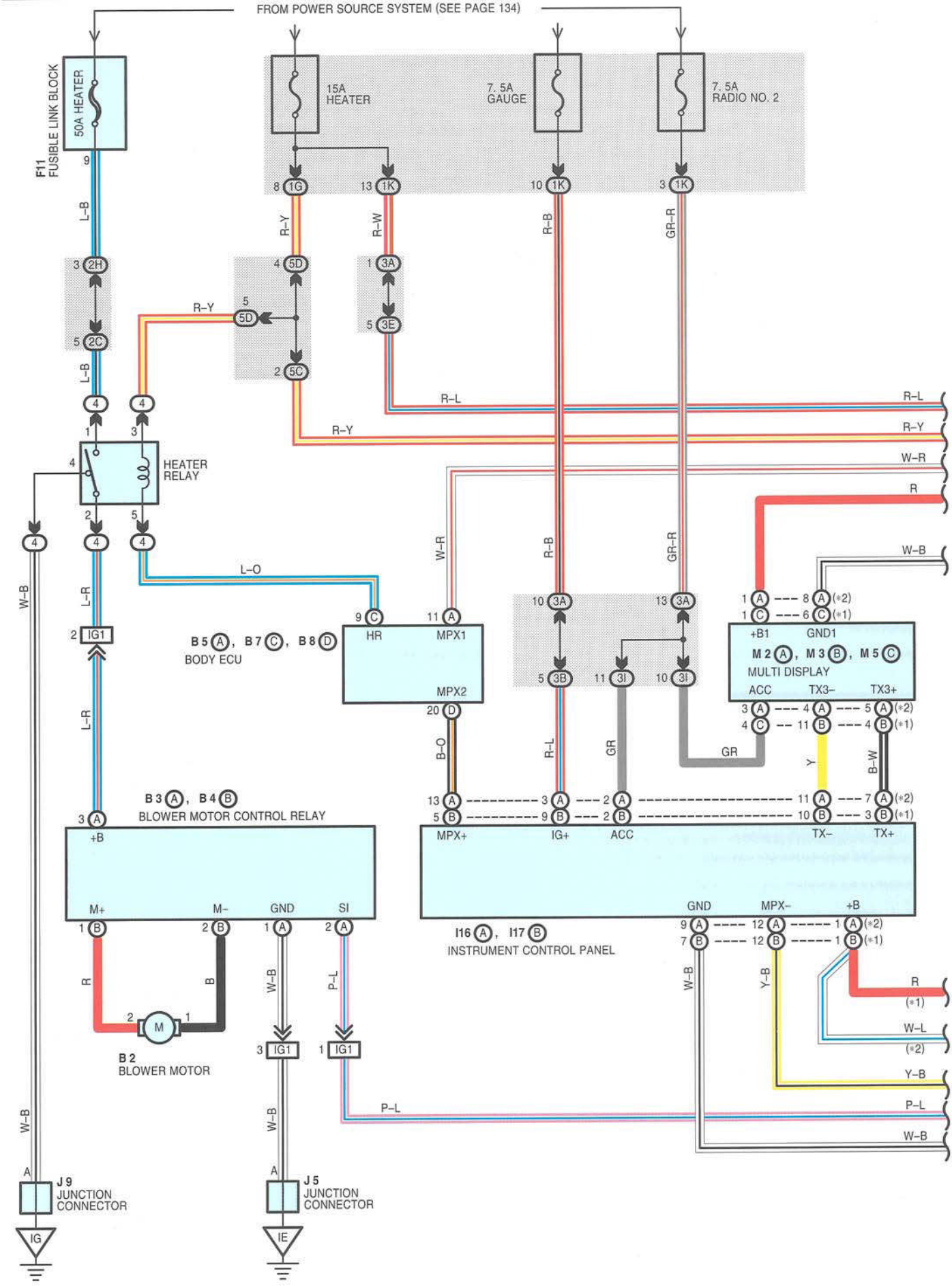
 : GROUND POINTS

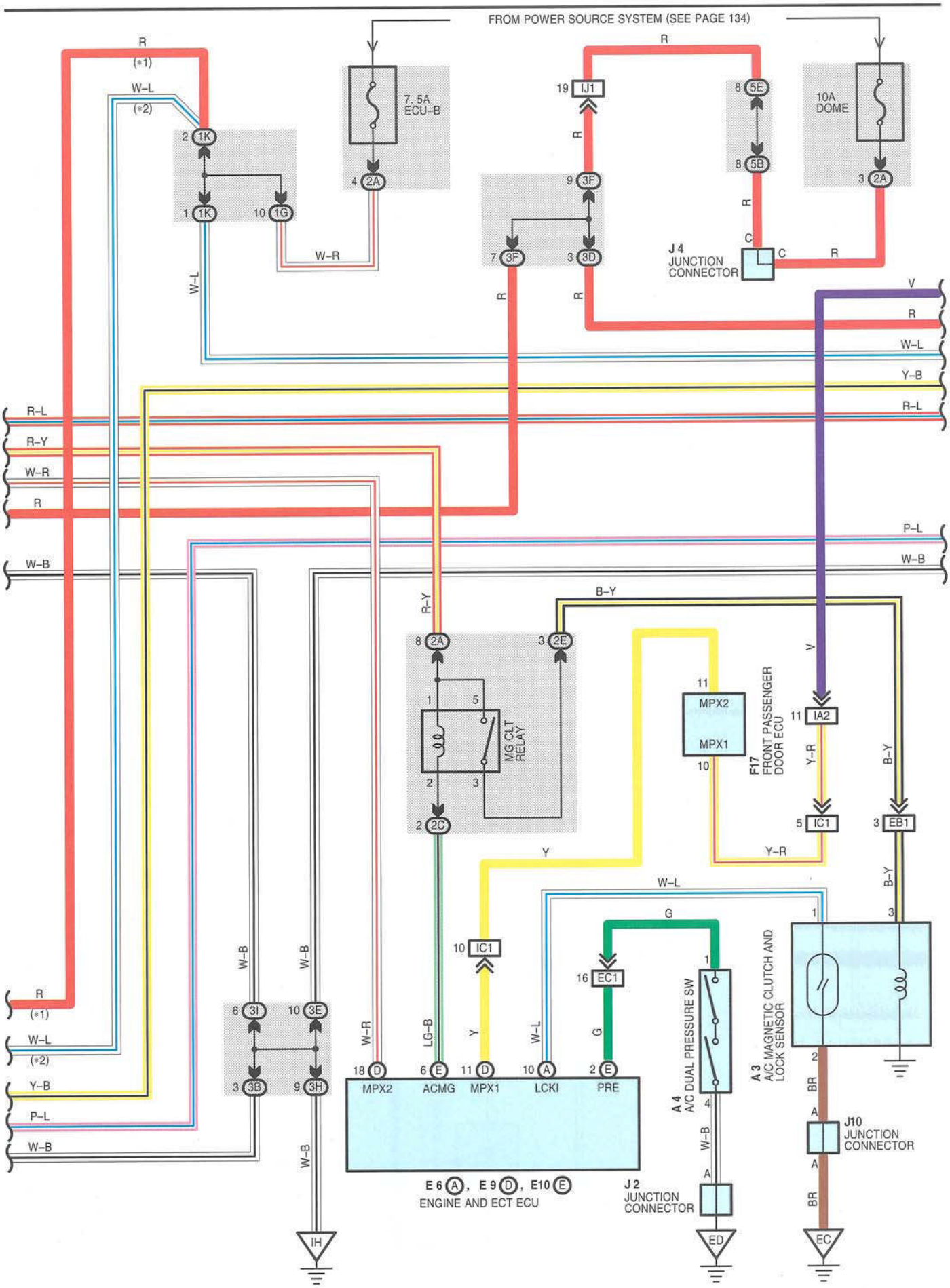
Code	See Page	Ground Points Location
EC	106 (LHD)	Rear Side of Surge Tank
ED	106 (LHD)	Right Radiator Side Support
IG	108 (LHD)	Cowl Side Panel RH
IH	108 (LHD)	Instrument Panel Brace RH

 : SPLICE POINTS

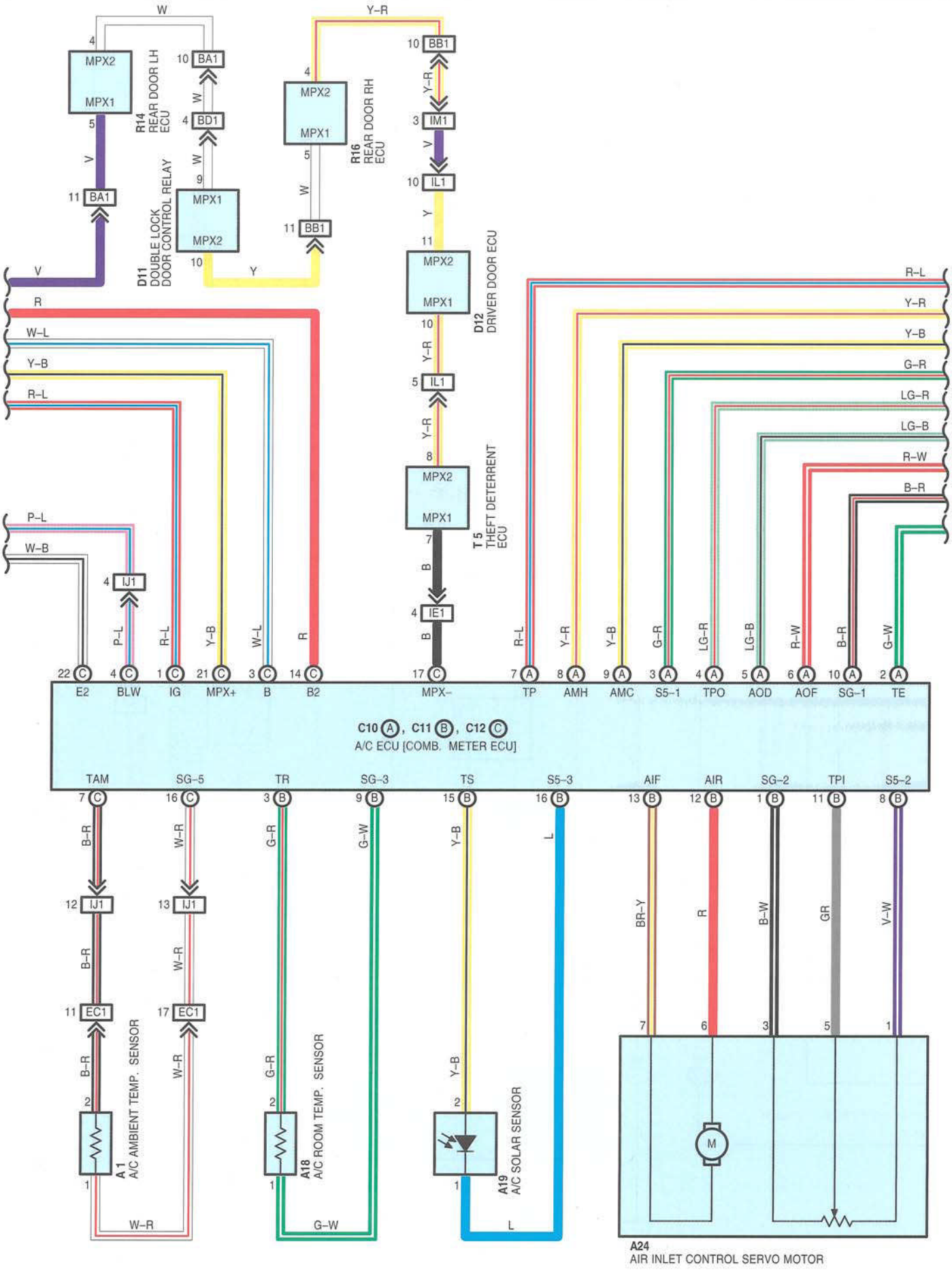
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I9	110 (LHD)	A/C Sub No.2 Wire			

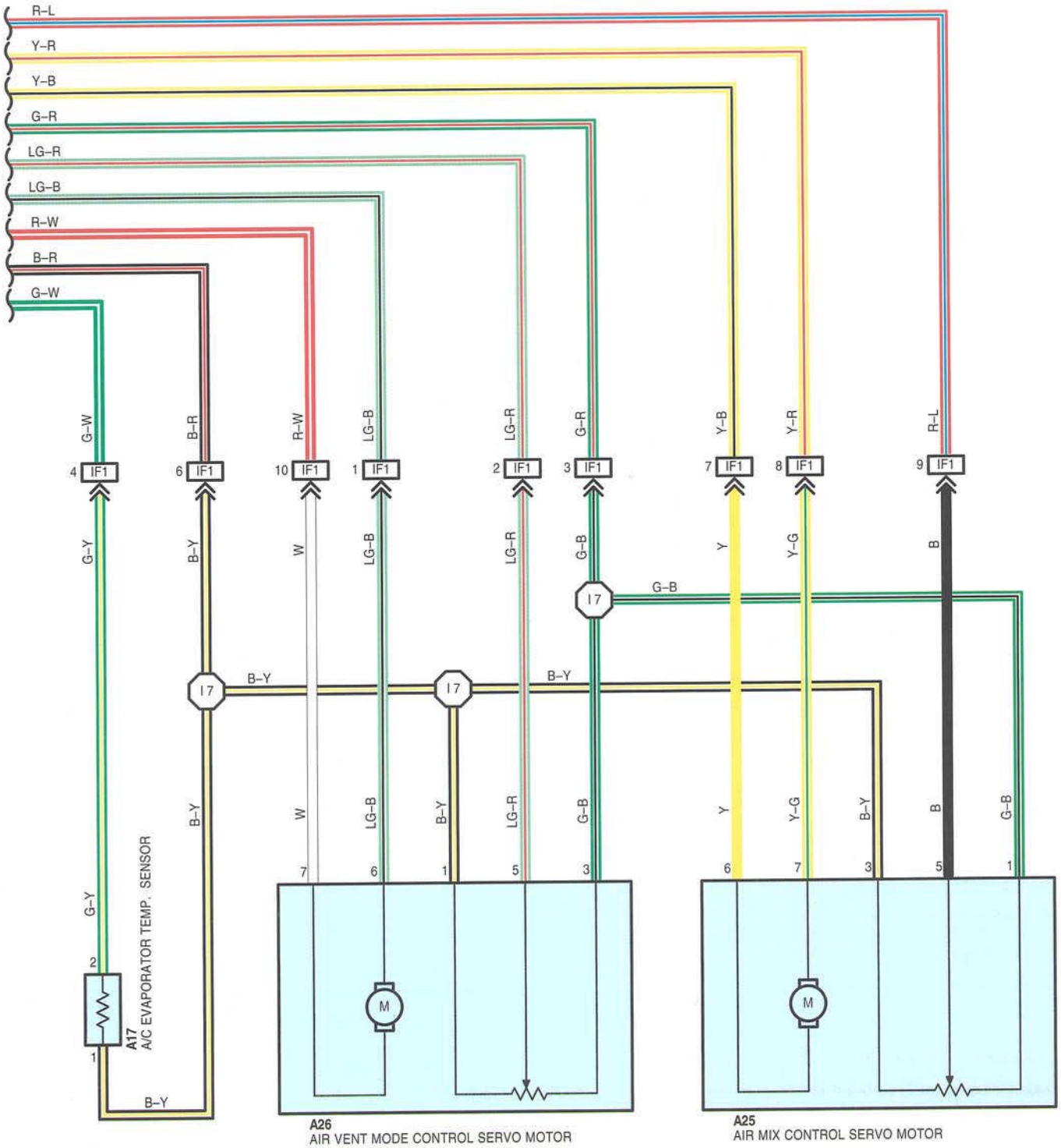
AUTOMATIC AIR CONDITIONER (RHD)




FROM POWER SOURCE SYSTEM (SEE PAGE 134)
7.5A ECU-B
10A DOME
J4 JUNCTION CONNECTOR
MG CLT RELAY
F17 FRONT PASSENGER DOOR ECU
MPX2
MPX1
A3 A/C MAGNETIC CLUTCH AND LOCK SENSOR
A4 A/C DUAL PRESSURE SW
J10 JUNCTION CONNECTOR
J2 JUNCTION CONNECTOR
E6 (A), E9 (D), E10 (E) ENGINE AND ECT ECU
MPX2
ACMG
MPX1
LCKI
PRE
IH
ED
EC

AUTOMATIC AIR CONDITIONER (RHD)




R–L
Y–R
Y–B
G–R
LG–R
LG–B
R–W
B–R
G–W
G–W
B–R
R–W
LG–B
LG–R
G–R
Y–B
Y–R
R–L
4 IF1
6 IF1
10 IF1
1 IF1
2 IF1
3 IF1
7 IF1
8 IF1
9 IF1
G–Y
B–Y
W
LG–B
LG–R
G–B
Y
Y–G
B
I7
I7
G–B
B–Y
B–Y
B–Y
W
LG–B
B–Y
LG–R
G–B
Y
Y–G
B–Y
B
G–B
7
6
1
5
3
6
7
3
5
1
G–Y
2
1
A17
A/C EVAPORATOR TEMP. SENSOR
B–Y
M
M
A26
AIR VENT MODE CONTROL SERVO MOTOR
A25
AIR MIX CONTROL SERVO MOTOR

AUTOMATIC AIR CONDITIONER (RHD)

SYSTEM OUTLINE

1. HEATER BLOWER OPERATION

MANUAL OPERATION

When the blower control SW is set to any blower speed, the A/C ECU sends a signal to the blower motor control relay, and controls the speed of the blower motor.

AUTO OPERATION

When the auto SW is operated, the A/C ECU sends a signal to the blower motor control relay, according to the signals from each sensors and commands from the temperature SW, and controls the blower motor speed automatically.

2. AIR INLET CONTROL SERVO MOTOR CONTROL

When the FRESH/RECIRC select SW is switched to RECIRC, the motor in the air inlet control servo motor rotates to move the damper to the RECIRC side. The damper position is recognized by the TERMINAL TPI of the A/C ECU, and rotates the motor until the damper reaches its position.

When the FRESH/RECIRC select SW is switched to FRESH, the motor in the air inlet control servo motor rotates to move the damper to the FRESH side. The damper position is recognized by the TERMINAL TPI of the A/C ECU, and rotates the motor until the damper reaches its position.

3. AIR VENT MODE CONTROL SERVO MOTOR CONTROL

When the mode select SW in the instrument control panel is pushed, a signal is sent from TERMINAL MPX- of the instrument control panel to TERMINAL MPX+ of the A/C ECU, and activates the air vent mode control servo motor. This causes the servo motor to rotate to the position selected using the mode select SW (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF), and moves the damper door.

4. AIR MIX CONTROL SERVO MOTOR CONTROL

When the temperature control SW in the instrument control panel is pushed, a signal is sent from TERMINAL MPX- of the instrument control panel to TERMINAL MPX+ of the A/C ECU, and activates the air mix control servo motor. The motor and damper door is moved until it reaches the temperature set by the temperature control SW.

5. AIR CONDITIONING OPERATION

The A/C ECU receives various signals, i.e., the engine RPM from the crankshaft position sensor, outlet temperature from the A/C ambient temp. sensor, coolant temperature from the water temp. sensor, and the lock signal from the A/C compressor, etc. When the engine is started and the A/C SW in the instrument control panel is pressed, a signal is input from TERMINAL MPX- of the instrument control panel to TERMINAL MPX+ of the A/C ECU. As a result, the ground circuit in the A/C ECU is closed, and the current flows from the HEATER fuse to MG CLT relay TERMINAL 1 to TERMINAL 2 to TERMINAL ACMG of the engine and ECT ECU to TERMINAL MPX2 to TERMINAL MPX1 of the body ECU to TERMINAL MPX2 to TERMINAL MPX+ of the instrument control panel to TERMINAL MPX- to TERMINAL MPX+ of the A/C ECU to TERMINAL E2 to GROUND, turning the A/C magnetic clutch on so that A/C compressor operates. In addition, when the engine and ECT ECU detects that the magnetic clutch is on and the A/C compressor is operating, it controls the engine in the direction to avoid lowering the engine rpm during A/C operation.

When any of the following signals are sent to the A/C ECU, the A/C is turned off.

* Coolant temp. is high.
* Outlet air temp. is low.
* Large difference between the engine speed and compressor speed.
* The refrigerant pressure is abnormally high or low.

SERVICE HINTS

A4 A/C DUAL PRESSURE SW

1-4 : Open with the refrigerant pressure at less than approx. **2.0** kgf/cm^2 (**31** psi, **196** kpa) or more than approx. **32** kgf/cm^2 (**455** psi, **3138** kpa)

C10 (A), C11 (B), C12 (C) A/C ECU [COMB. METER ECU]

B-GROUND : Always approx. **12** volts
B2-GROUND : Always approx. **12** volts
AIF-GROUND : Approx. **12** volts with the FRESH SW on
AIR-GROUND : Approx. **12** volts with the RECIRC SW on
E2-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A1	98 (RHD)	B7 C	100 (RHD)	I17 B	101 (RHD)
A3	98 (RHD)	B8 D	100 (RHD)	J2	99 (RHD)
A4	98 (RHD)	C10 A	100 (RHD)	J4	101 (RHD)
A17	100 (RHD)	C11 B	100 (RHD)	J5	101 (RHD)
A18	100 (RHD)	C12 C	100 (RHD)	J9	101 (RHD)
A19	100 (RHD)	D11	102 (RHD)	J10	101 (RHD)
A24	100 (RHD)	D12	102 (RHD)	M2 A	101 (RHD)
A25	100 (RHD)	E6 A	100 (RHD)	M3 B	101 (RHD)
A26	100 (RHD)	E9 D	100 (RHD)	M5 C	101 (RHD)
B2	100 (RHD)	E10 E	100 (RHD)	R14	103 (RHD)
B3 A	100 (RHD)	F11	98 (RHD)	R16	103 (RHD)
B4 B	100 (RHD)	F17	102 (RHD)	T5	101 (RHD)
B5 A	100 (RHD)	I16 A	101 (RHD)		

▭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
4	89	R/B No.4 (Left Kick Panel)

▭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	80 (RHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	80 (RHD)	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2C		
2E	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3D		
3E		
3F		
3H		
3I		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5C		
5D		
5E		

AUTOMATIC AIR CONDITIONER (RHD)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	116 (RHD)	Engine Wire and Engine Room Main Wire (Under the Engine Room J/B)
EC1	116 (RHD)	Cowl Wire and Engine Room Main Wire (Under the Engine Room J/B)
IA2	118 (RHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC1	118 (RHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IE1	118 (RHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IF1	118 (RHD)	Instrument Panel Wire and A/C Sub No.2 Wire (Instrument Panel Brace RH)
IG1	120 (RHD)	Cowl Wire and A/C Sub No.1 Wire (Instrument Panel Brace RH)
IJ1	120 (RHD)	Cowl Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	120 (RHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IM1	120 (RHD)	Cowl Wire and Floor Wire (Right Kick Panel)
BA1	122 (RHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	122 (RHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BD1	122 (RHD)	Floor No.2 Wire and Floor Wire (Upper the Rear Axle Housing Left)

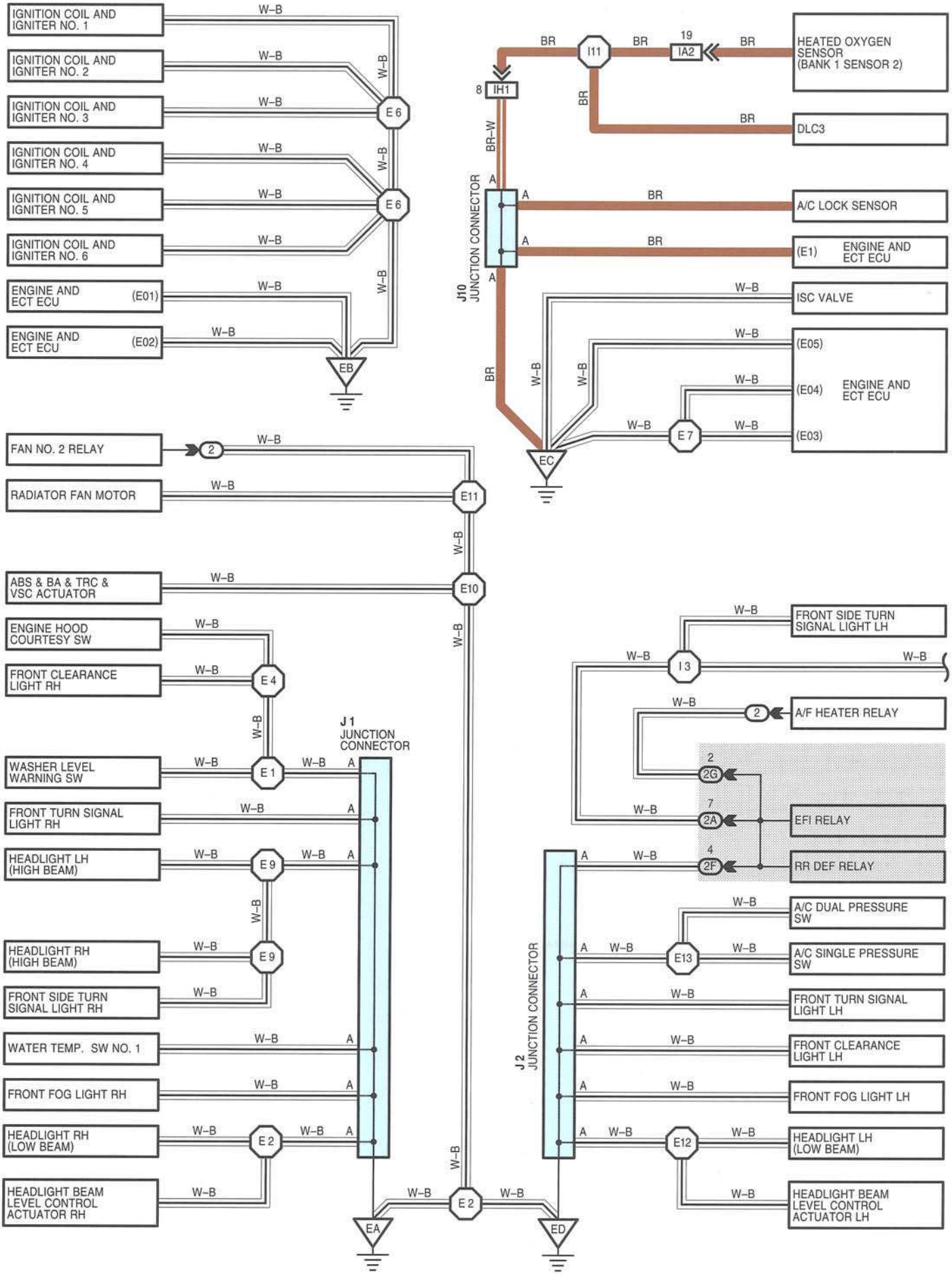
: GROUND POINTS

Code	See Page	Ground Points Location
EC	116 (RHD)	Rear Side of Surge Tank
ED	116 (RHD)	Right Radiator Side Support
IE	118 (RHD)	Cowl Side Panel LH
IG	118 (RHD)	Cowl Side Panel RH
IH	118 (RHD)	Instrument Panel Brace RH

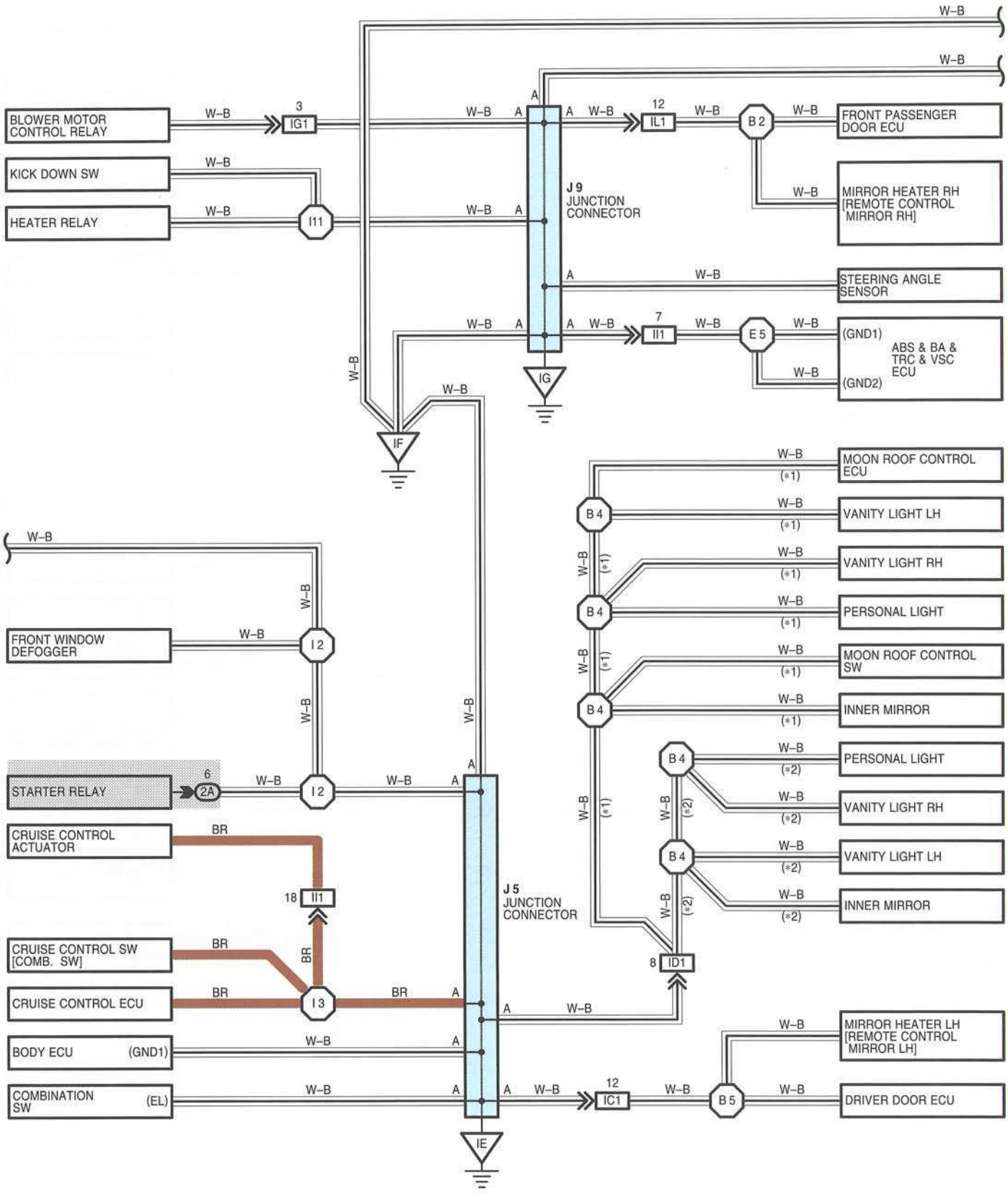
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I7	120 (RHD)	A/C Sub No.2 Wire			

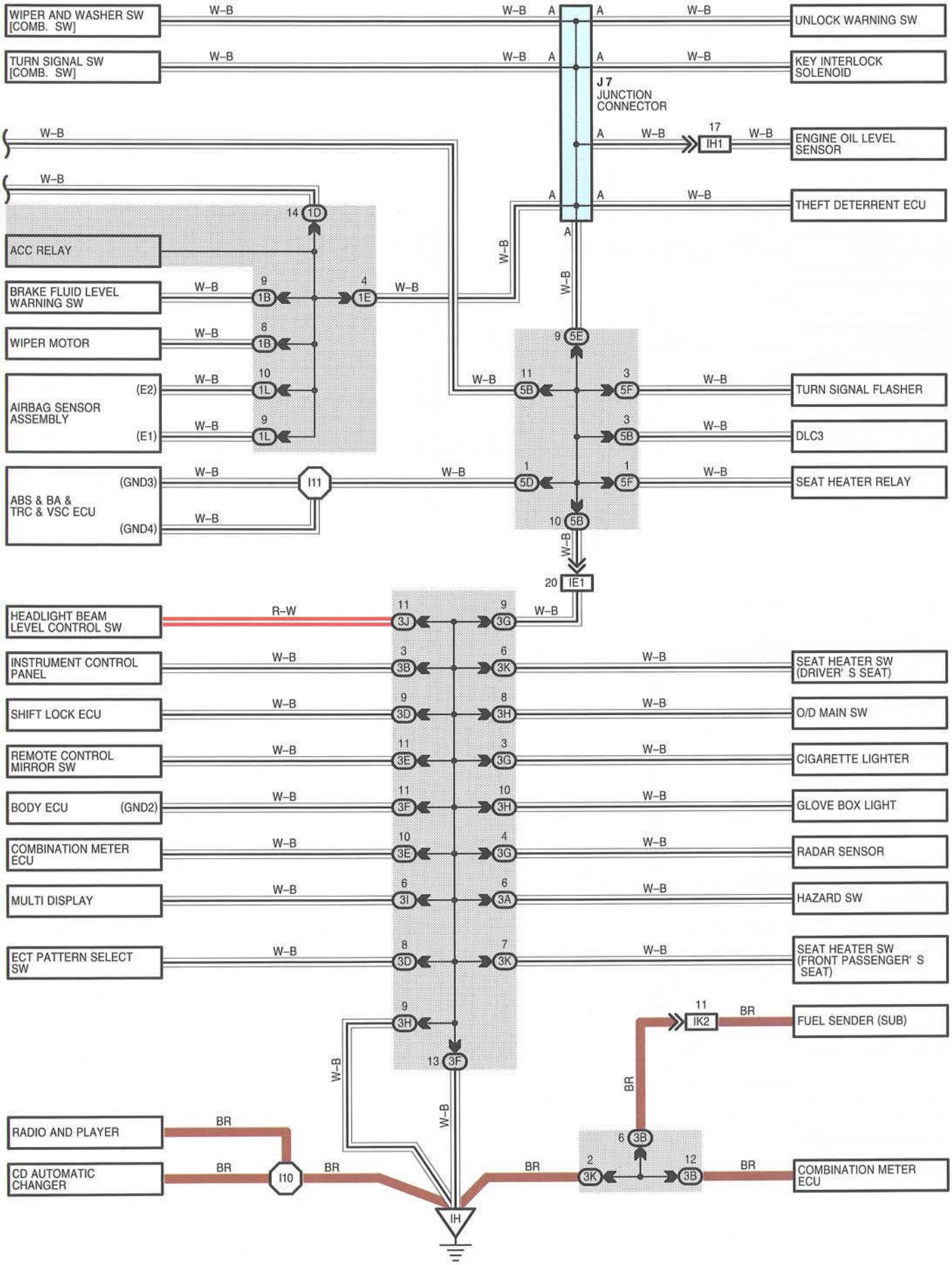
I GROUND POINT (LHD)

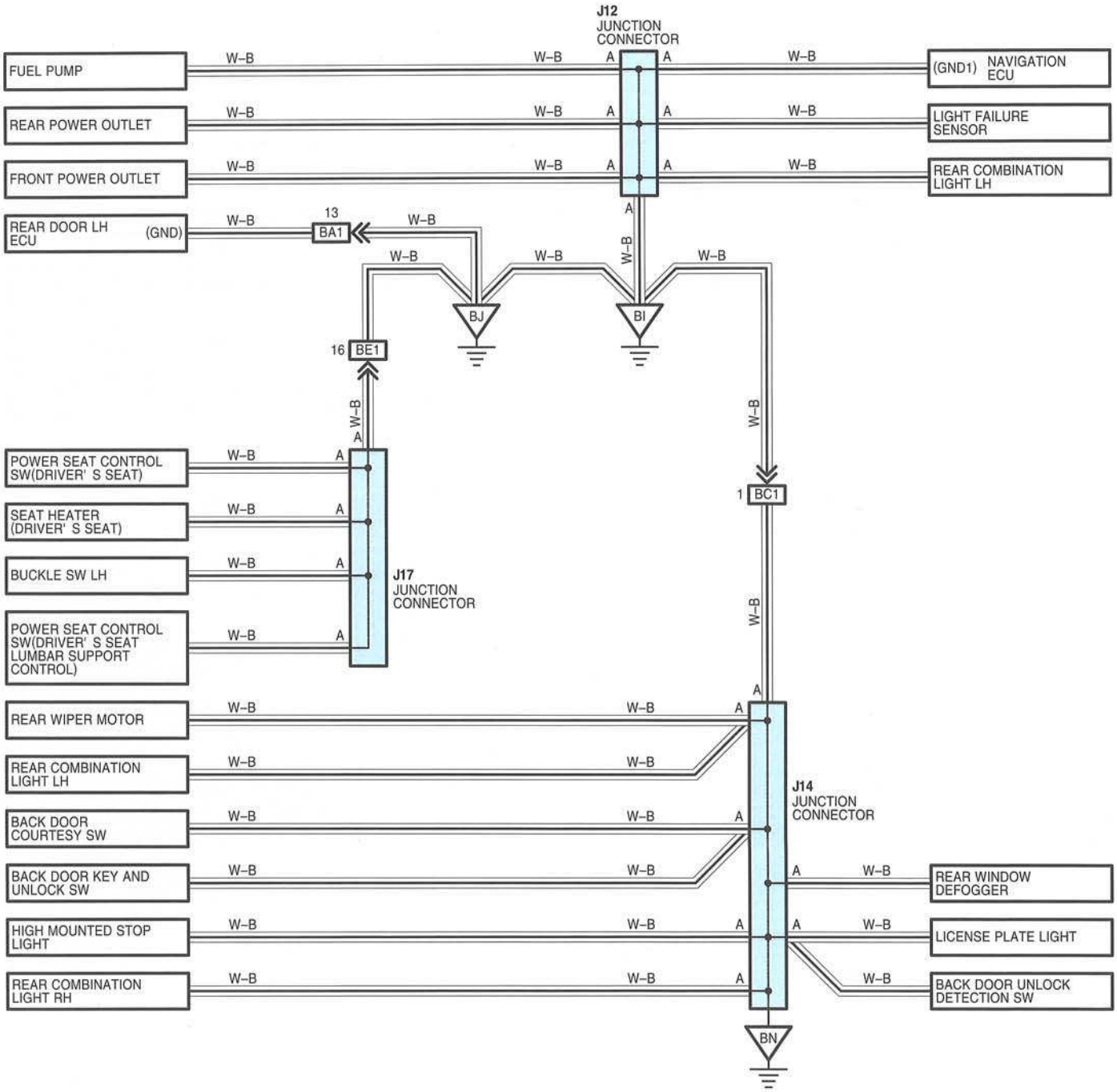


* 1 : W/ MOON ROOF
* 2 : W/O MOON ROOF

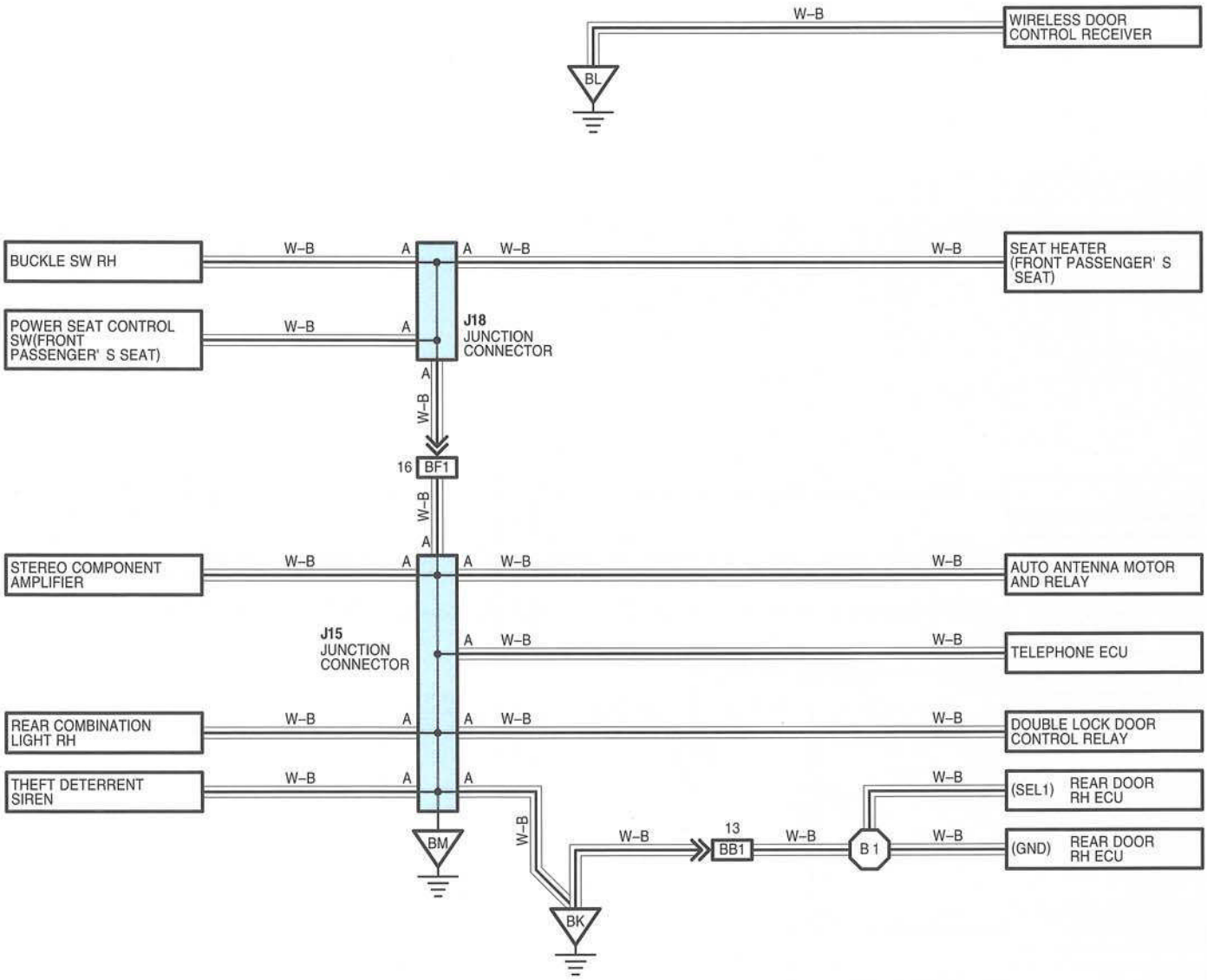


I GROUND POINT (LHD)




J12
JUNCTION
CONNECTOR
FUEL PUMP
REAR POWER OUTLET
FRONT POWER OUTLET
REAR DOOR LH ECU
(GND)
(GND1) NAVIGATION ECU
LIGHT FAILURE SENSOR
REAR COMBINATION LIGHT LH
13 BA1
BJ
BI
16 BE1
1 BC1
POWER SEAT CONTROL SW(DRIVER' S SEAT)
SEAT HEATER (DRIVER' S SEAT)
BUCKLE SW LH
POWER SEAT CONTROL SW(DRIVER' S SEAT LUMBAR SUPPORT CONTROL)
J17
JUNCTION
CONNECTOR
REAR WIPER MOTOR
REAR COMBINATION LIGHT LH
BACK DOOR COURTESY SW
BACK DOOR KEY AND UNLOCK SW
HIGH MOUNTED STOP LIGHT
REAR COMBINATION LIGHT RH
J14
JUNCTION
CONNECTOR
REAR WINDOW DEFOGGER
LICENSE PLATE LIGHT
BACK DOOR UNLOCK DETECTION SW
BN
W-B
A

I GROUND POINT (LHD)



: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J1	91 (LHD)	J9	93 (LHD)	J15	94 (LHD)
J2	91 (LHD)	J10	93 (LHD)	J17	96 (LHD)
J5	93 (LHD)	J12	94 (LHD)	J18	96 (LHD)
J7	93 (LHD)	J14	94 (LHD)		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	88	R/B No.2 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	78 (LHD)	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1D		
1E		
1L		
2A	82	Cowl Wire and Engine Room J/B (Engine Compartment Left)
2F	82	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
3A	84	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3D		
3E		
3F		
3G		
3H		
3I		
3J		
3K		
5B	86	Cowl Wire and J/B No.5 (Behind the Instrument Panel Left)
5D		
5E		
5F		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	108 (LHD)	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC1	108 (LHD)	Front Door LH Wire and Cowl Wire (Left Kick Panel)
ID1	108 (LHD)	Roof Wire and Cowl Wire (Left Side of Instrument Panel)
IE1	108 (LHD)	Instrument Panel Wire and Cowl Wire (Lower Finish Panel)
IG1	110 (LHD)	Cowl Wire and A/C Sub No.1 Wire (Instrument Panel Brace RH)
IH1	110 (LHD)	Engine Wire and Cowl Wire (Behind the Glove Box)
II1	110 (LHD)	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
IK2	110 (LHD)	Floor Wire and Instrument Panel Wire (Behind the Glove Box)
IL1	110 (LHD)	Front Door RH Wire and Cowl Wire (Right Kick Panel)
BA1	112 (LHD)	Rear Door LH Wire and Floor No.2 Wire (Under the Left Center Pillar)
BB1	112 (LHD)	Rear Door RH Wire and Floor Wire (Under the Right Center Pillar)
BC1	112 (LHD)	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BE1	114 (LHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)
BF1	114 (LHD)	Floor Wire and Front Seat RH Wire (Under the Front Passenger's Seat)

I GROUND POINT (LHD)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
EA	106 (LHD)	Engine Compartment Right
EB	106 (LHD)	Surge Tank RH
EC	106 (LHD)	Rear Side of Surge Tank
ED	106 (LHD)	Right Radiator Side Support
IE	108 (LHD)	Cowl Side Panel LH
IF	108 (LHD)	Dash Panel Center
IG	108 (LHD)	Cowl Side Panel RH
IH	108 (LHD)	Instrument Panel Brace RH
BI	112 (LHD)	Upper the Rear Axle Housing Left
BJ	112 (LHD)	Under the Left Center Pillar
BK	112 (LHD)	Under the Right Center Pillar
BL	112 (LHD)	Left Rear Quarter Panel
BM	112 (LHD)	Under the Rear RH Seat
BN	112 (LHD)	Back Panel Center

○ : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	106 (LHD)	Engine Room Main Wire	E13	106 (LHD)	Engine Room Main Wire
E2			I2	110 (LHD)	Cowl Wire
E4			I3		
E5			I10	110 (LHD)	Instrument Panel Wire
E6	106 (LHD)	Engine Wire	I11	110 (LHD)	Cowl Wire
E7			B1	112 (LHD)	Rear Door RH Wire
E9	106 (LHD)	Engine Room Main Wire	B2	112 (LHD)	Front Door LH Wire
E10			B4	112 (LHD)	Roof Wire
E11			B5	112 (LHD)	Front Door RH Wire
E12					