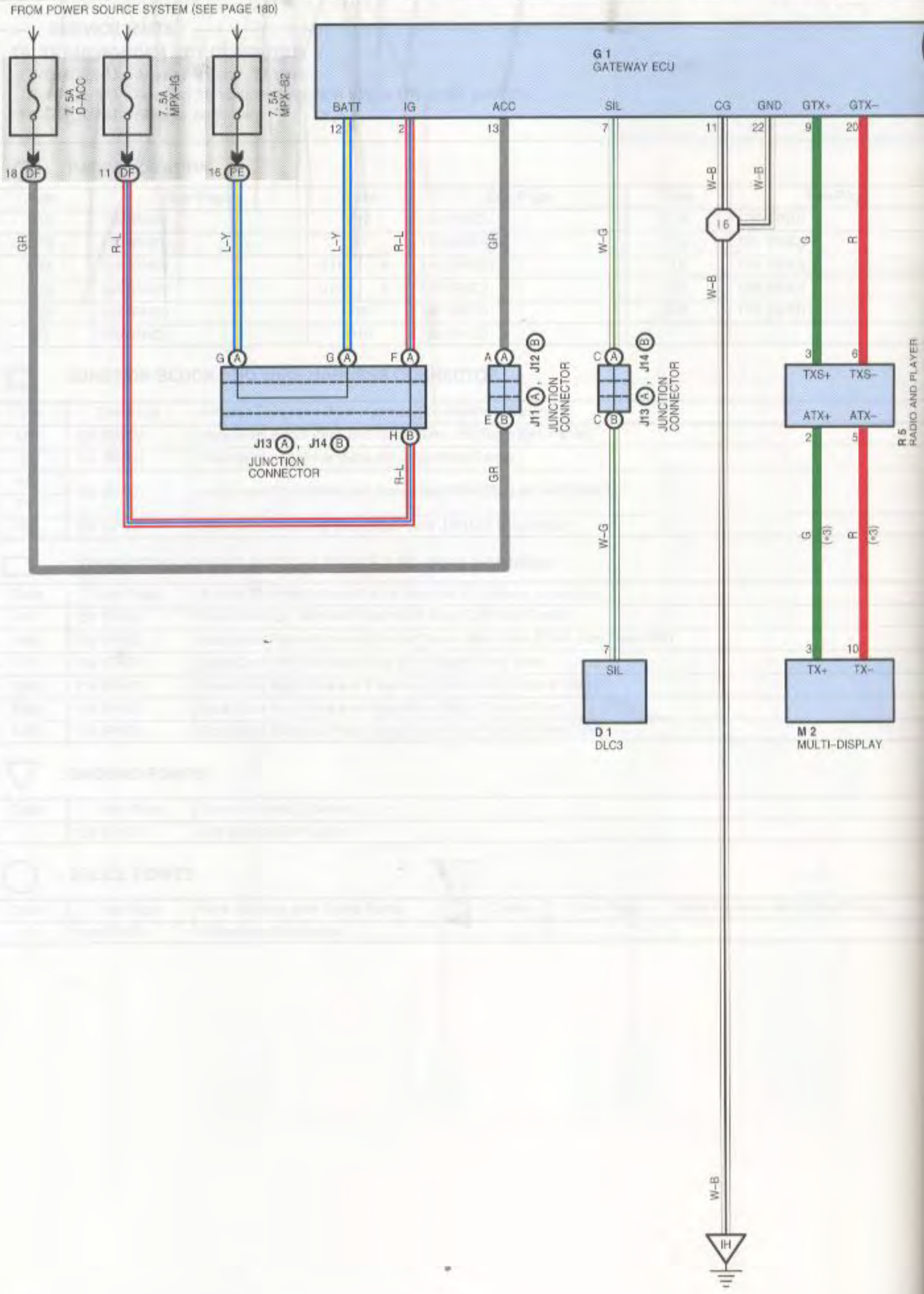
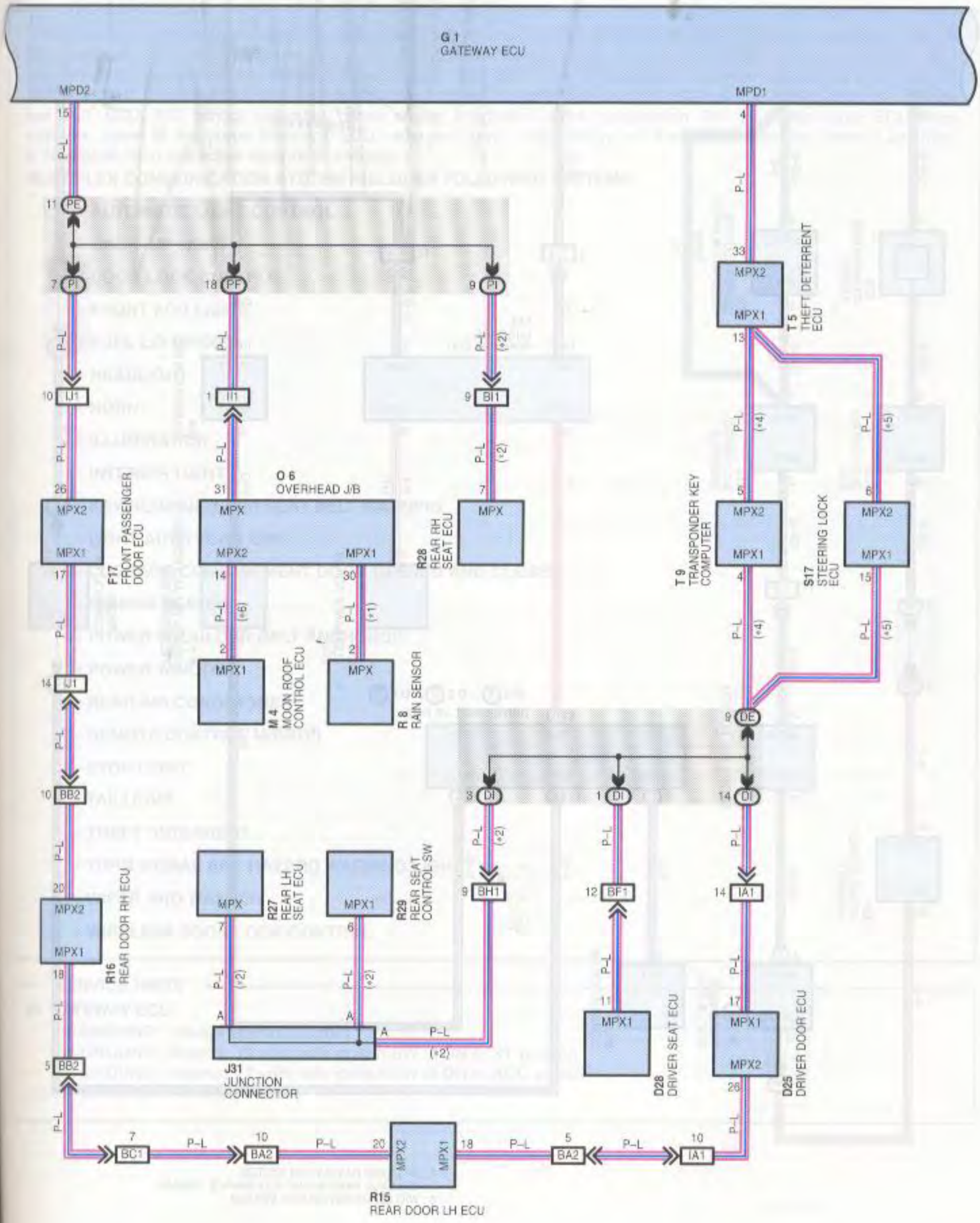
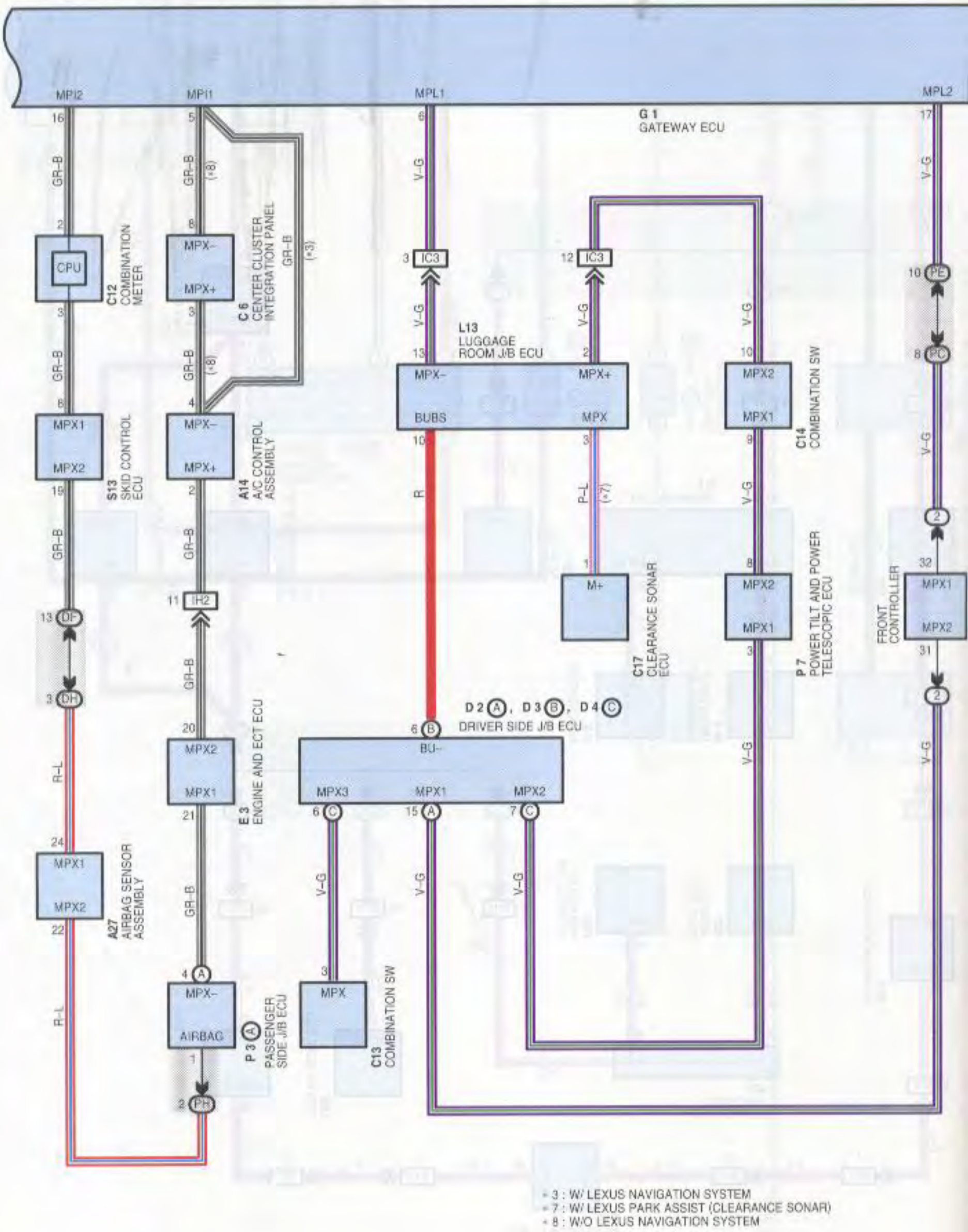
MULTIPLEX COMMUNICATION SYSTEM (COMMUNICATION BUS) [LHD]




G 1
GATEWAY ECU
MPD2
MPD1
P-L
11 PE
7 PI
18 PF
9 PI
10 IJ1
1 II1
9 BI1
(*2)
26
MPX2
MPX1
F17
FRONT PASSENGER DOOR ECU
O 6
OVERHEAD J/B
31
MPX
MPX2
MPX1
14
30
2
(*6)
(*1)
M 4
MOON ROOF CONTROL ECU
R 8
RAIN SENSOR
R28
REAR RH SEAT ECU
7
33
13
T 5
THEFT DETERRENT ECU
(*4)
(*5)
T 9
TRANSPONDER KEY COMPUTER
S17
STEERING LOCK ECU
4
15
9 DE
3 DI
1 DI
14 DI
14 BB2
20
R16
REAR DOOR RH ECU
9 BH1
12 BF1
14 IA1
R27
REAR LH SEAT ECU
R29
REAR SEAT CONTROL SW
18
A
J31
JUNCTION CONNECTOR
11
D28
DRIVER SEAT ECU
17
D25
DRIVER DOOR ECU
5 BB2
7 BC1
10 BA2
5 BA2
10 IA1
R15
REAR DOOR LH ECU

MULTIPLEX COMMUNICATION SYSTEM (COMMUNICATION BUS) [LHD



SYSTEM OUTLINE

The multiplex communication system communicates among the gateway ECU, driver side J/B ECU, passenger side J/B ECU, luggage room J/B ECU, driver door ECU, front passenger door ECU, rear door LH ECU, rear door RH ECU, theft deterrent ECU, transponder key computer, steering lock ECU, moon roof control ECU, rain sensor, driver seat ECU, rear LH seat ECU, rear RH seat ECU, rear seat control SW, combination meter, skid control ECU, airbag sensor assembly, engine and ECT ECU, A/C control assembly, center cluster integration panel, combination SW, clearance sonar ECU, front controller, power tilt and power telescopic ECU, radio and player, multi-display and controls the following systems according to the signals from respective sensors or switches.

MULTIPLEX COMMUNICATION SYSTEM INCLUDES FOLLOWING SYSTEMS

- **AUTOMATIC LIGHT CONTROL**
- **BACK-UP LIGHT**
- **DOOR LOCK CONTROL**
- **FRONT FOG LIGHT**
- **FUEL LID OPENER**
- **HEADLIGHT**
- **HORN**
- **ILLUMINATION**
- **INTERIOR LIGHT**
- **KEY REMINDER AND SEAT BELT WARNING**
- **LIGHT AUTO TURN OFF**
- **LUGGAGE COMPARTMENT DOOR OPENER AND CLOSER**
- **MIRROR HEATER**
- **POWER SHOULDER BELT ANCHORGE**
- **POWER WINDOW**
- **REAR AIR CONDITIONER**
- **REMOTE CONTROL MIRROR**
- **STOP LIGHT**
- **TAILLIGHT**
- **THEFT DETERRENT**
- **TURN SIGNAL AND HAZARD WARNING LIGHT**
- **WIPER AND WASHER**
- **WIRELESS DOOR LOCK CONTROL**

SERVICE HINTS

G1 GATEWAY ECU

12-GROUND : Always approx. **12** volts
2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
13-GROUND : Approx. **12** volts with ignition SW at **ON** or **ACC** position
11, 22-GROUND : Always continuity

MULTIPLEX COMMUNICATION SYSTEM (COMMUNICATION BUS) [LHD]

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A14	116 (LHD)	E3	112 (LHD)	P7	118 (LHD)
A27	116 (LHD)	F17	120 (LHD)	R5	119 (LHD)
C6	116 (LHD)	G1	117 (LHD)	R8	122 (LHD)
C12	116 (LHD)	J11 A	117 (LHD)	R15	122 (LHD)
C13	116 (LHD)	J12 B	117 (LHD)	R16	122 (LHD)
C14	116 (LHD)	J13 A	117 (LHD)	R27	125 (LHD)
C17	120 (LHD)	J14 B	117 (LHD)	R28	125 (LHD)
D1	117 (LHD)	J31	125 (LHD)	R29	125 (LHD)
D2 A	117 (LHD)	L13	121 (LHD)	S13	119 (LHD)
D3 B	117 (LHD)	M2	118 (LHD)	S17	119 (LHD)
D4 C	117 (LHD)	M4	122 (LHD)	T5	119 (LHD)
D25	120 (LHD)	O6	122 (LHD)	T9	119 (LHD)
D28	124 (LHD)	P3 A	118 (LHD)		

⬭ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	82	Engine Room No.2 R/B (Engine Compartment Left)

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
DE	87 (LHD)	Instrument Panel Wire and Driver Side J/B (Left Kick Panel)
DF		
DH		
DI	89 (LHD)	Floor No.2 Wire and Driver Side J/B (Left Kick Panel)
PC	93 (LHD)	Engine Room Main Wire and Passenger Side J/B (Right Kick Panel)
PE	94 (LHD)	Instrument Panel Wire and Passenger Side J/B (Right Kick Panel)
PF		
PH		
PI	95 (LHD)	Floor Wire and Passenger Side J/B (Right Kick Panel)

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	142 (LHD)	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC3	142 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Cowl Side Panel LH)
IH2	144 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Cowl Side Panel RH)
II1	144 (LHD)	Instrument Panel Wire and Roof Wire (Cowl Side Panel RH)
IJ1	144 (LHD)	Front Door RH Wire and Floor Wire (Right Kick Panel)
BA2	146 (LHD)	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BB2	146 (LHD)	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BC1	146 (LHD)	Floor No.2 Wire and Floor Wire (Rear Floor Partition Panel LH)
BF1	148 (LHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)
BH1	150 (LHD)	Rear Seat LH Wire and Floor No.2 Wire (Under the Rear Passenger's LH Seat)
BI1	150 (LHD)	Rear Seat RH Wire and Floor Wire (Under the Rear Passenger's RH Seat)

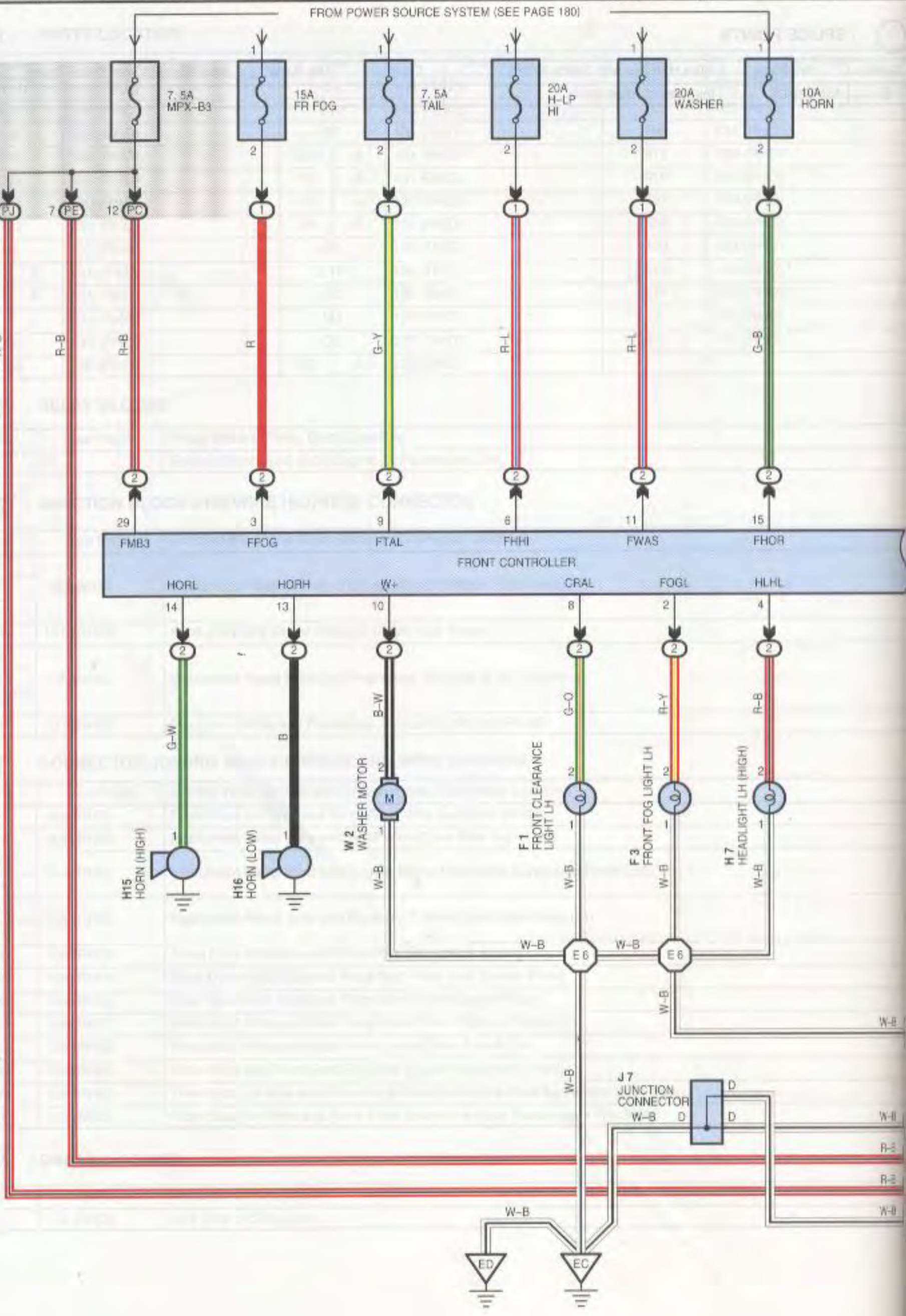
▽ : GROUND POINTS

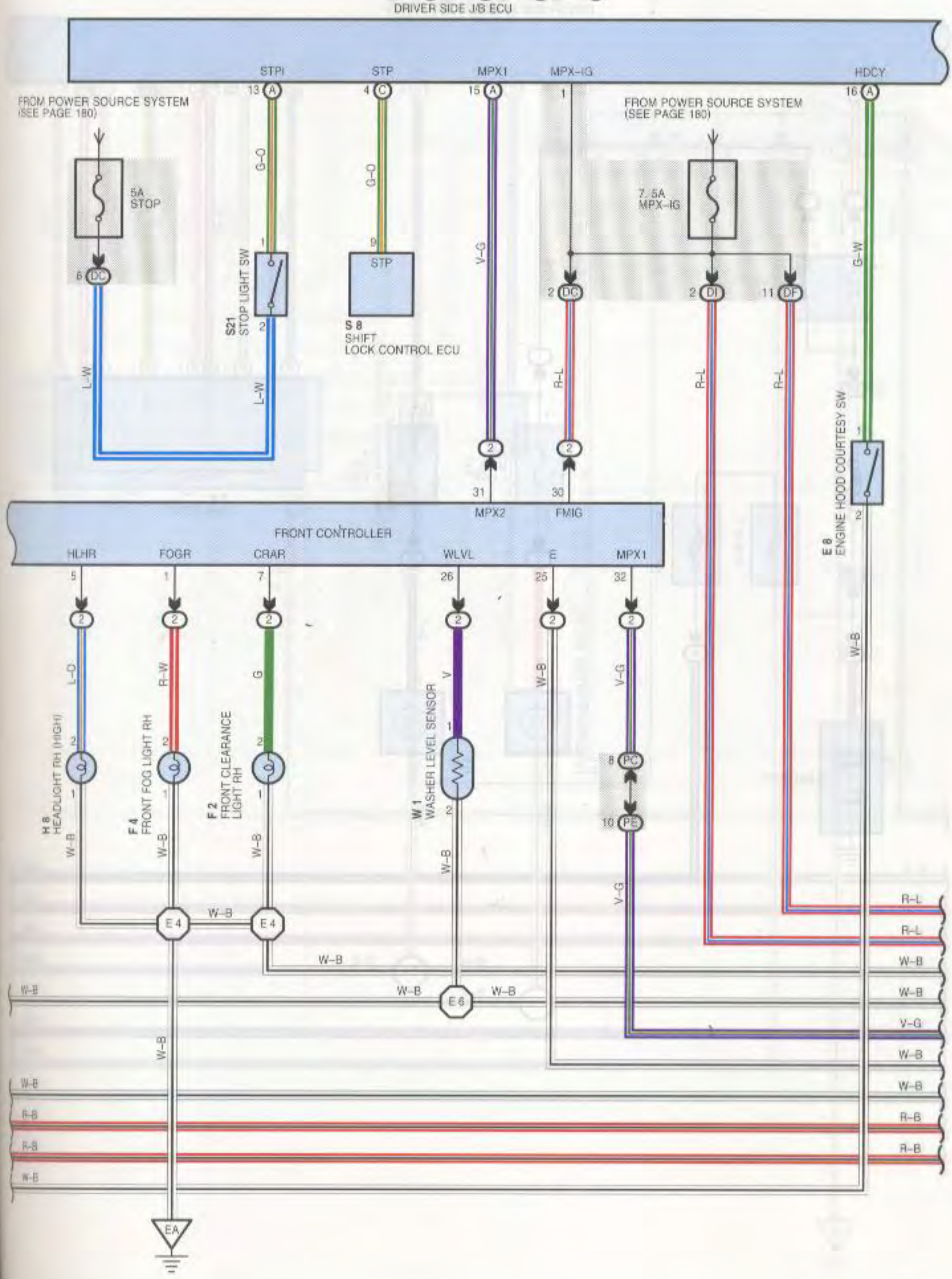
Code	See Page	Ground Points Location
IH	142 (LHD)	Right Side of Shift Lever

⯃ : SPLICE POINTS

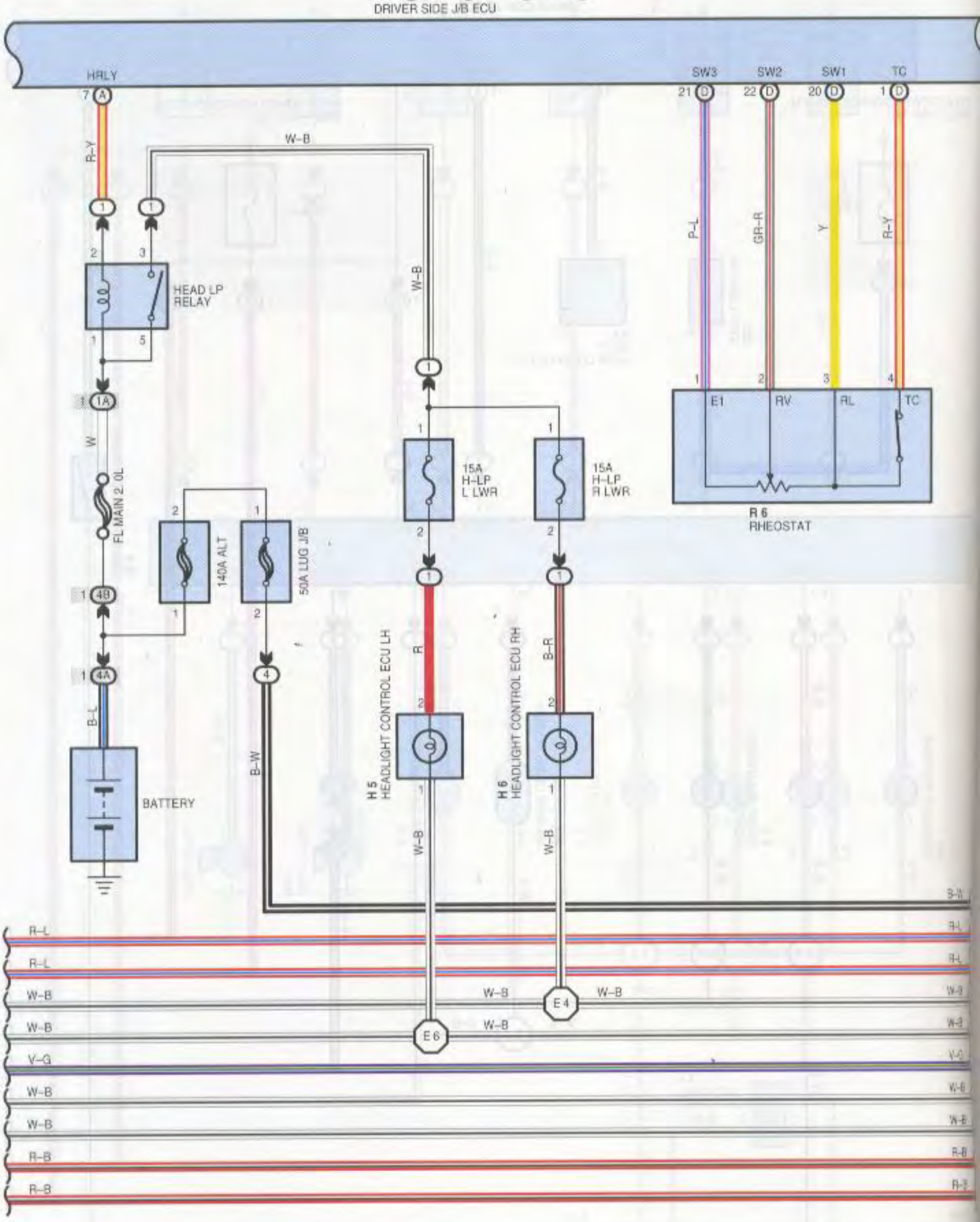
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I6	144 (LHD)	Instrument Panel Wire			

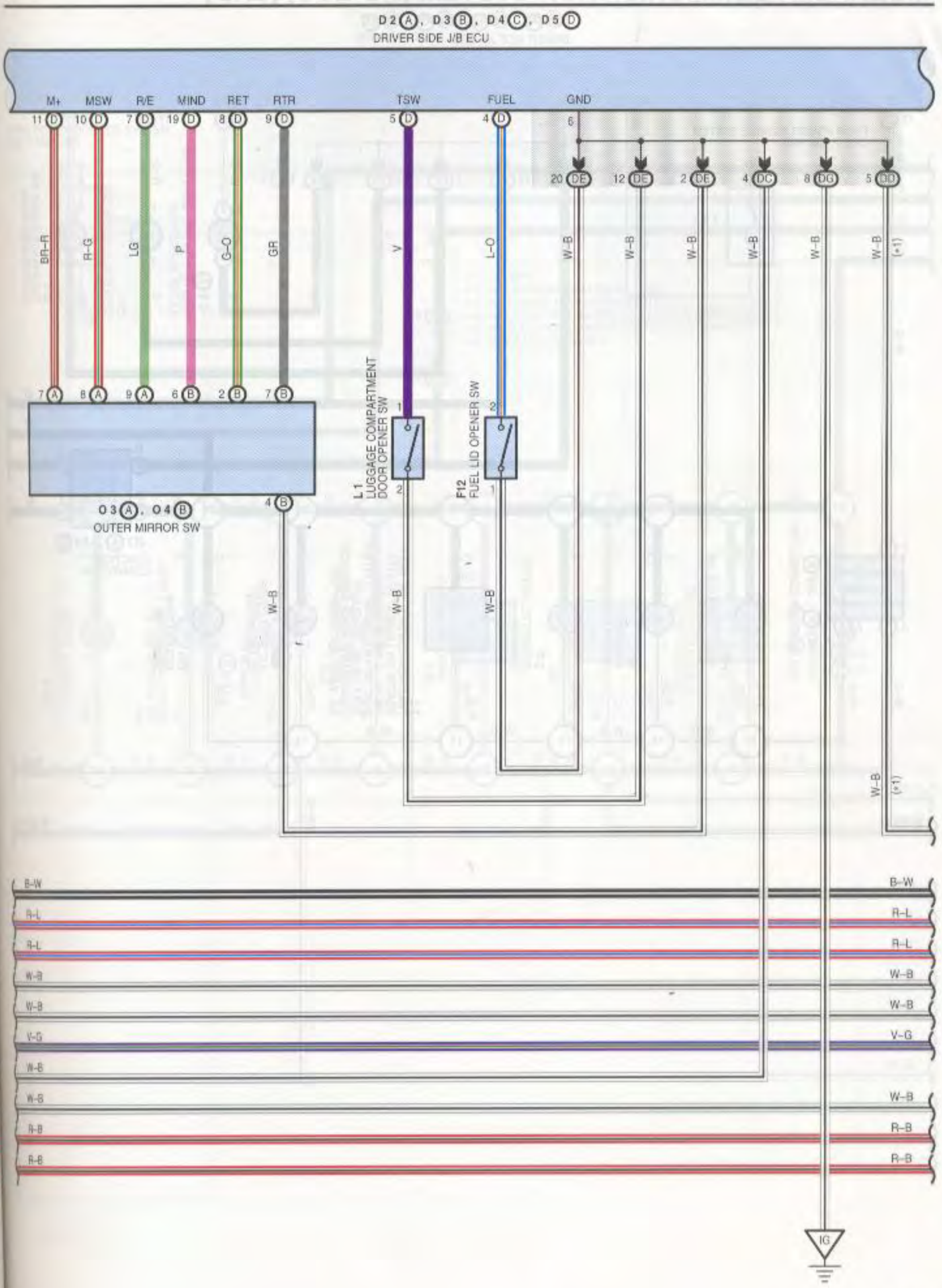
MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]



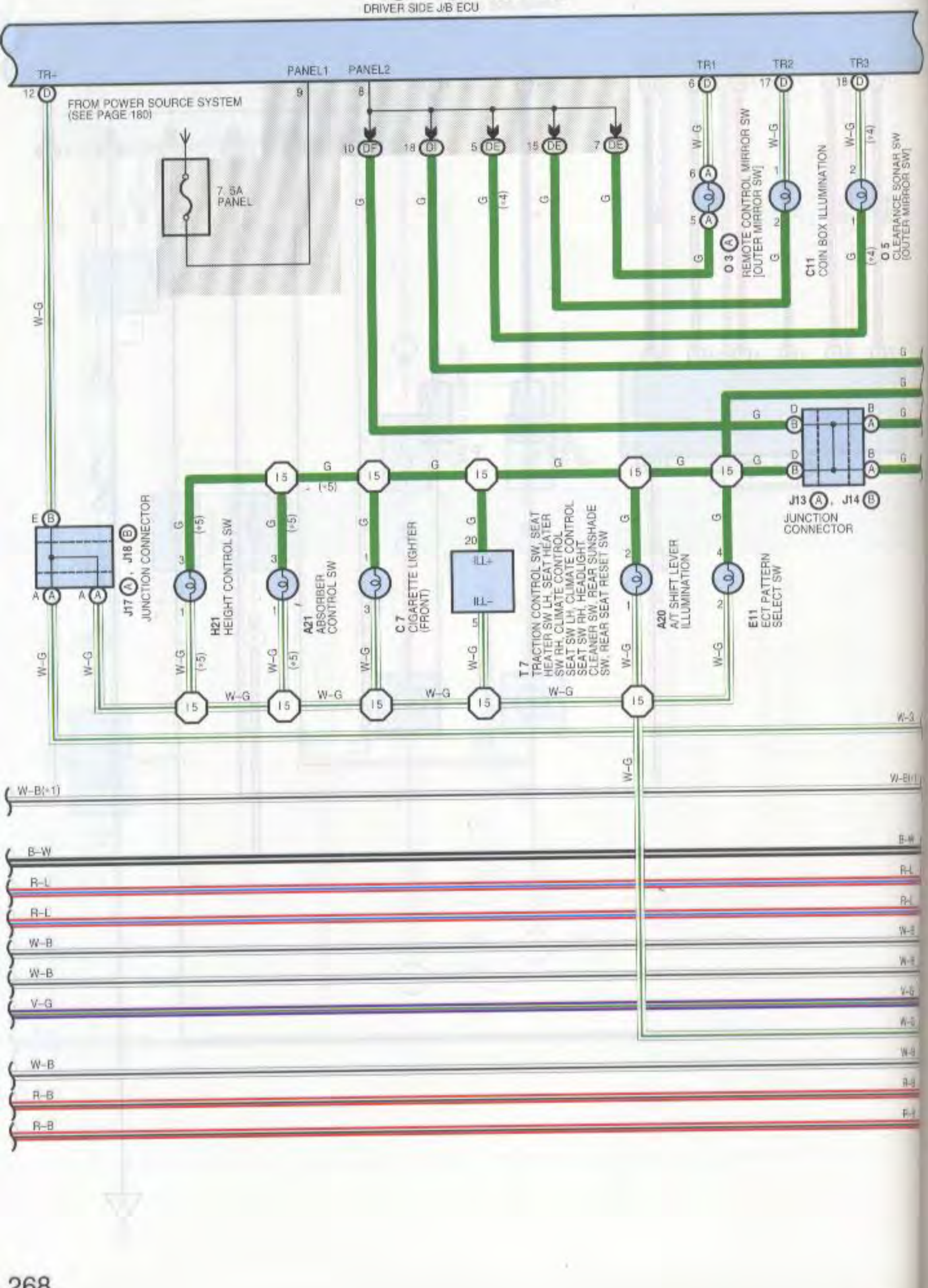

D2 (A), D3 (B), D4 (C), D5 (D)
DRIVER SIDE J/B ECU
STPI
STP
MPX1
MPX-IG
HDCY
FROM POWER SOURCE SYSTEM (SEE PAGE 180)
5A STOP
7.5A MPX-IG
S21 STOP LIGHT SW
S 8 SHIFT LOCK CONTROL ECU
MPX2
FMIG
FRONT CONTROLLER
HLHR
FOGR
CRAR
WLVL
E
MPX1
H 8 HEADLIGHT RH (HIGH)
F 4 FRONT FOG LIGHT RH
F 2 FRONT CLEARANCE LIGHT RH
W 1 WASHER LEVEL SENSOR
E 8 ENGINE HOOD COURTESY SW
E4
E6
EA
G-O
L-W
V-G
R-L
L-O
R-W
G
V
W-B
G-W
R-B

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]




D2 (A), D3 (B), D4 (C), D5 (D)
DRIVER SIDE J/B ECU
M+
MSW
R/E
MIND
RET
RTR
TSW
FUEL
GND
11 (D)
10 (D)
7 (D)
19 (D)
8 (D)
9 (D)
5 (D)
4 (D)
6
20 (DE)
12 (DE)
2 (DE)
4 (DC)
8 (DG)
5 (DD)
BR-R
R-G
LG
P
G-O
GR
V
L-O
W-B
(*1)
7 (A)
8 (A)
9 (A)
6 (B)
2 (B)
7 (B)
4 (B)
O3 (A), O4 (B)
OUTER MIRROR SW
L1
LUGGAGE COMPARTMENT DOOR OPENER SW
F12
FUEL LID OPENER SW
B-W
R-L
W-B
V-G
W-G
R-B
IG

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]



D2 (A), D3 (B), D4 (C), D5 (D)
DRIVER SIDE J/B ECU

HAZ

FROM POWER SOURCE SYSTEM (SEE PAGE 180)

15A HAZ

* 1 : EUROPE
* 2 : W/ LEXUS NAVIGATION SYSTEM
* 3 : W/O LEXUS NAVIGATION SYSTEM
* 4 : W/ LEXUS PARK ASSIST (CLEARANCE SONAR)
* 5 : W/ ELECTRONIC MODULATED AIR SUSPENSION
* 6 : W/ REAR POWER SEAT

A18 A/C ROOM TEMP. SW (DRIVER 'S SIDE)

A19 A/C ROOM TEMP. SW (FRONT PASSENGER' S SIDE)

O4 (B) MIRROR SW [OUTER MIRROR SW]

F13 FUEL LID OPENER SW ILLUMINATION

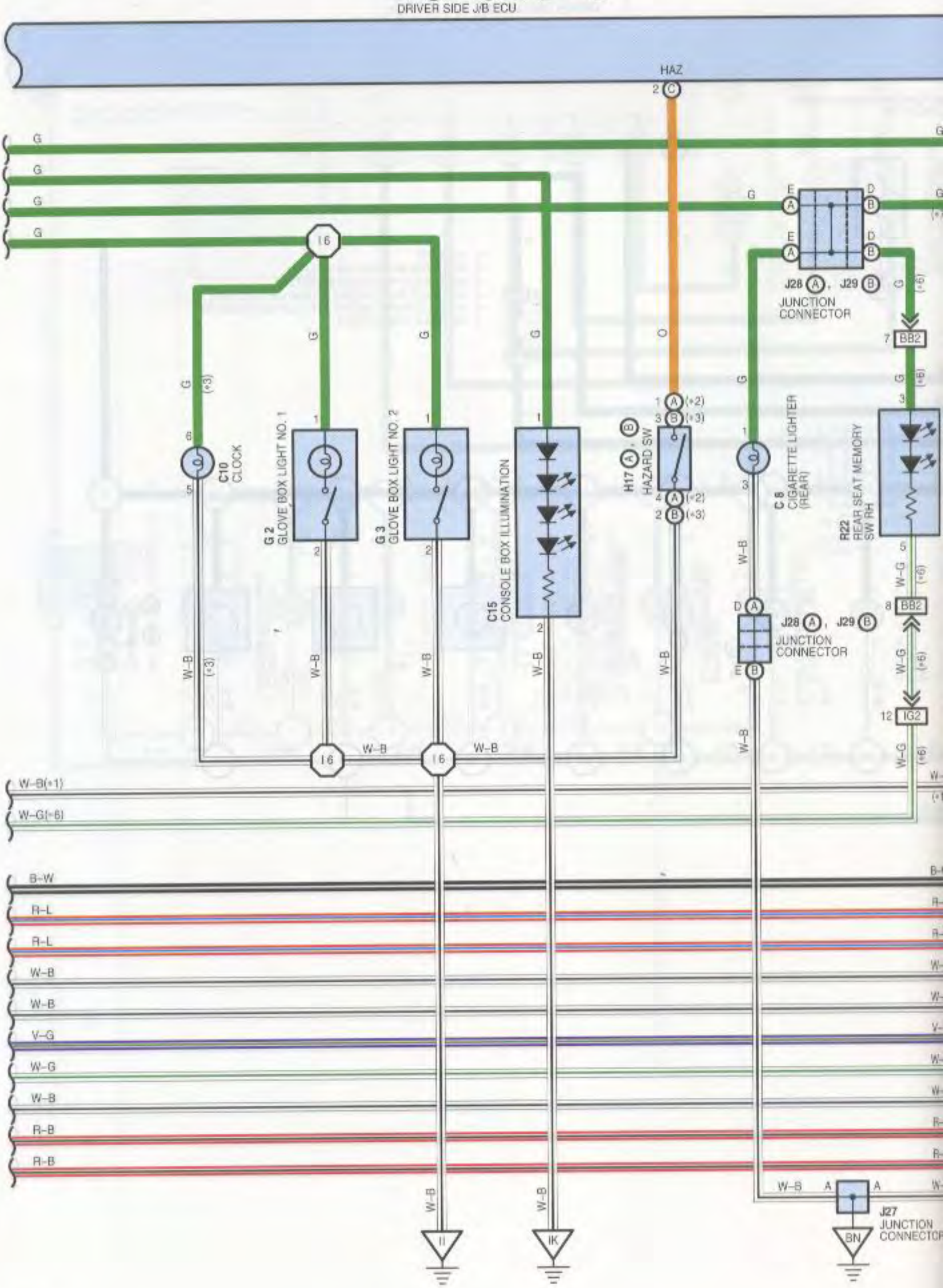
R4 RADIO AND PLAYER

M1 MULTI-DISPLAY

C6 CENTER CLUSTER INTEGRATION PANEL

H17 (A), (B) HAZARD SW

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]



D2 (A), D3 (B), D4 (C), D5 (D)
DRIVER SIDE J/B ECU

CLTB CLTS CLTE

A31
AUTOMATIC LIGHT CONTROL SENSOR AND A/C SOLAR SENSOR (FRONT)

A14 (A), A15 (B)
A/C CONTROL ASSEMBLY

J23
JUNCTION CONNECTOR

A39
AUDIO AND REAR A/C CONTROL SW

D26
DRIVING POSITION MEMORY SW

R21
REAR SEAT MEMORY SW LH

R29
REAR SEAT CONTROL SW

C6
CENTER CLUSTER INTEGRATION PANEL

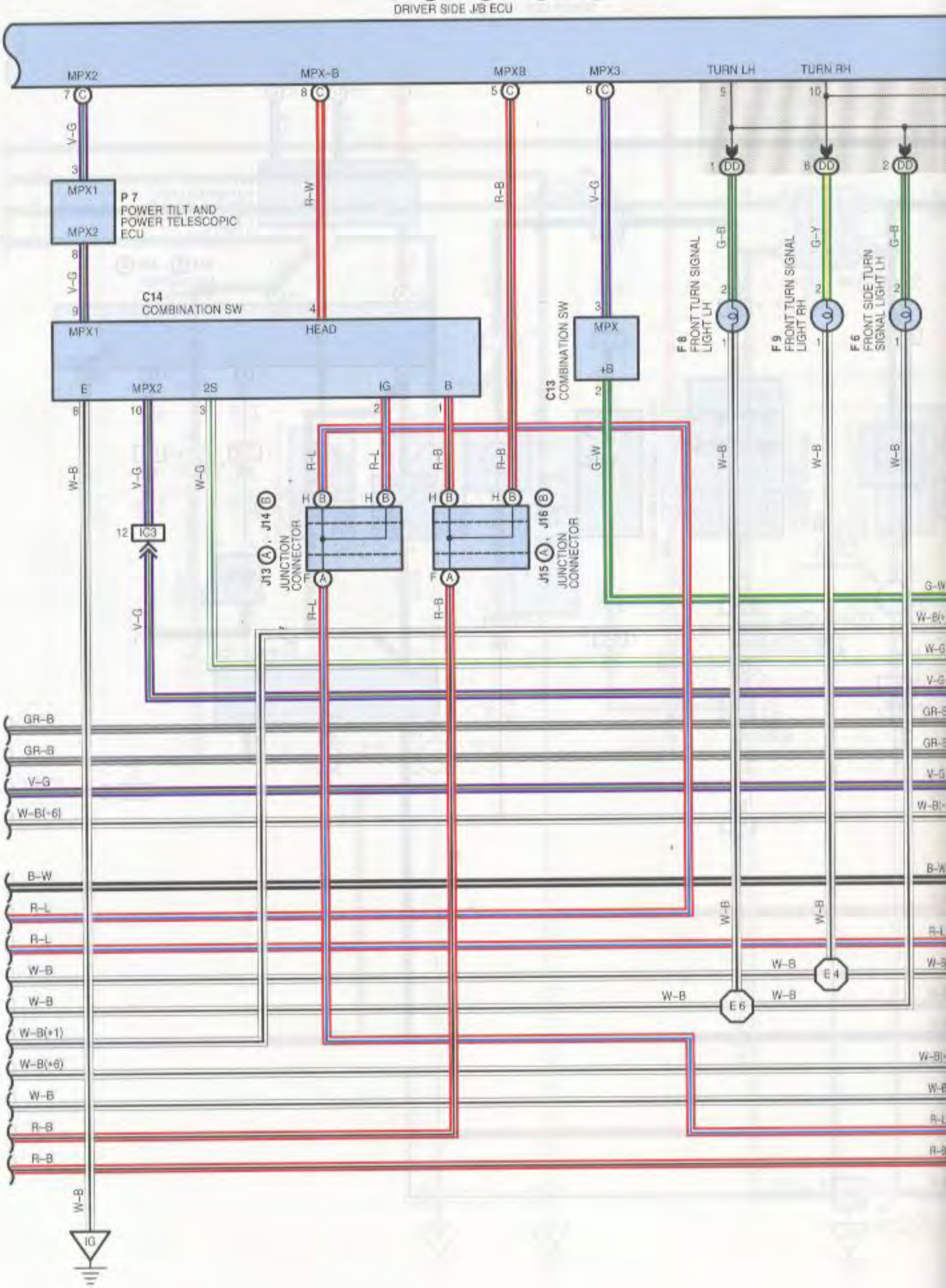
A32
A/C SOLAR SENSOR (REAR)

G1
GATEWAY ECU

B10 : *6
B11 : *7

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]

D2 (A), D3 (B), D4 (C), D5 (D)
DRIVER SIDE J/B ECU



* 1 : EUROPE
* 6 : W/ REAR POWER SEAT

D2 (A), D3 (B), D4 (C), D5 (D)
DRIVER SIDE J/B ECU

RV
GND2
15 (D)
1 (C)
W-L
W-B

7 (DD) 8 (DE) 3 (DE) 13 (DE) 18 (DE)
G-Y G-Y G-B G-B G-Y

C12
COMBINATION METER
14 15 16

F7
FRONT SIDE TURN SIGNAL LIGHT RH
2 1
14 IC3 13 IC3

2 13 11 22 12 1 3
GR-B R W-B W-B L-Y Y GR-B

J13 (A)
JUNCTION CONNECTOR
G (A) G (A)

C (A) C (B)
J17 (A), J18 (B)
JUNCTION CONNECTOR

6 PF 15 PF

G-W
W-B(*1)
W-G
V-G
GR-B
GR-B
V-G
W-B(*6)
Y
B-W
L-Y
R-L
G-B
G-Y
R
W-B(*6)
W-B
R-L
R-B

W-B W-B W-B
IK IH

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]

D2 (A), D3 (B), D4 (C), D5 (D)
DRIVER SIDE J/B ECU

STPA
B/ANC
DBKL
DBIL
3 (C)
7
8 (B)
10 (B)
G-W
FROM POWER SOURCE SYSTEM (SEE PAGE 180)
5A
D B/ANC
7.5A
GAUGE
R-W
G-B
11 BF1
4 BF1
1 (DE)
R-W
G-B
1
2
+
B
E
E
B4
BUCKLE SW
FRONT LH
7 (B)
STP
S12 (B), S13 (C)
SKID CONTROL
ECU
MPX1
MPX2
8 (C)
19 (C)
3
4
W-B
W-B
1 BF1
7 BF1
W-B
W-B
GR-B
GR-B
G-W
W-B(*1)
W-G
V-G
GR-B
GR-B
V-G
W-B(*6)
Y
B-W
L-Y
R-L
G-B
G-Y
R
W-B(*6)
W-B
R-L
R-B
J24
JUNCTION
CONNECTOR
A
W-B
BM
A
J22
JUNCTION
CONNECTOR
BL

*1 : EUROPE
*6 : W/ REAR POWER SEAT

D2 (A), D3 (B), D4 (C), D5 (D)
DRIVER SIDE J/B ECU

DBM+ DBM− VC BES E STPO BU− HDCL

5 (B) 4 (B) 3 (B) 1 (B) 2 (B) 12 (A) 6 (B) 16 (D)

V L-O B-Y B-R B-W G-O R B-Y

S24
SHOULDER BELT ANCHOR MOTOR AND POSITION SENSOR LH

6 3 2 4 6
UP DOWN VC BES E

E 3
ENGINE AND ECT ECU

4
STP
MPX2 MPX1
20 21
GR-B
11 IH2
GR-B
GR-B

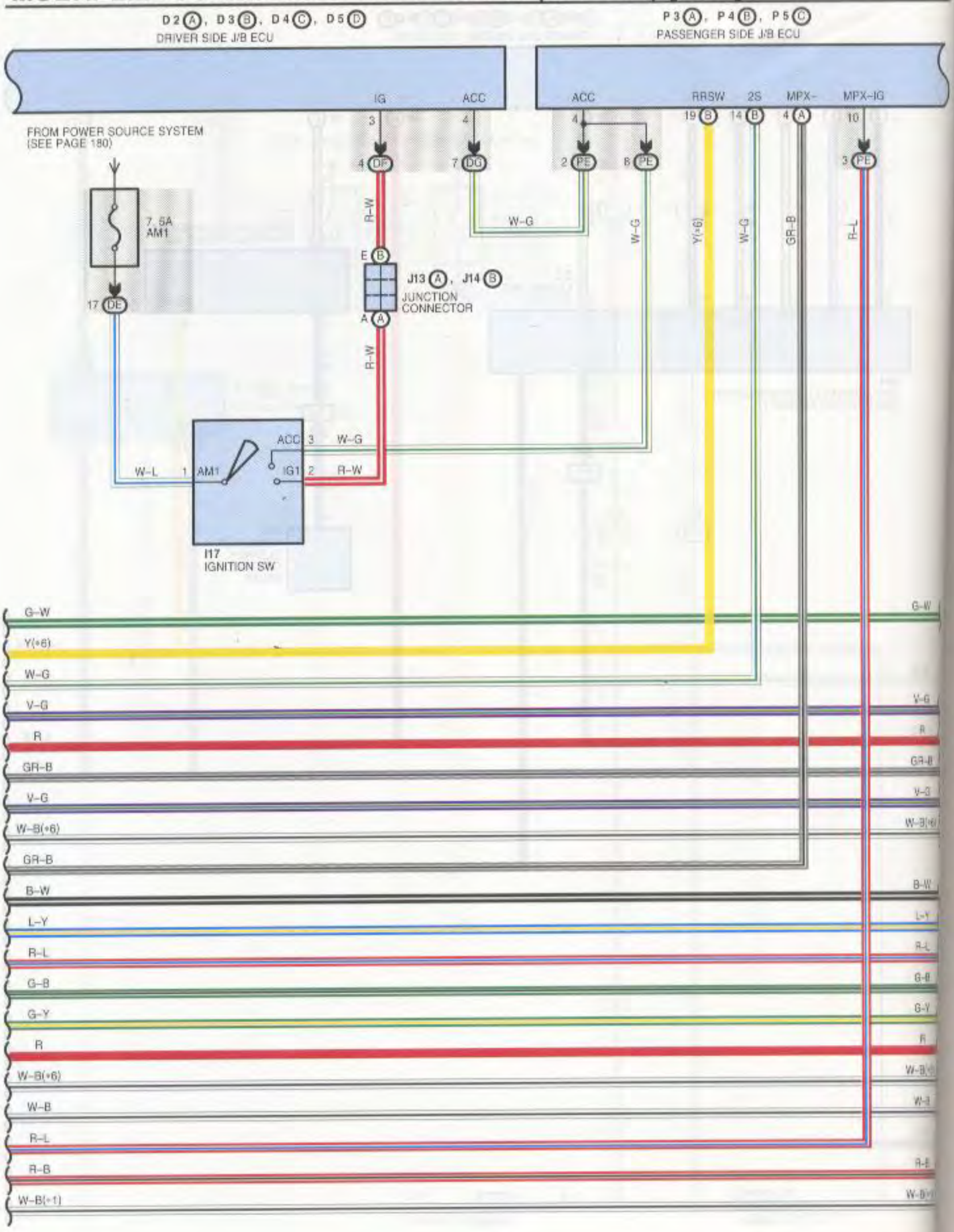
T 7
HEADLIGHT CLEANER SW, REAR SEAT RESET SW

10
L
B CSW
11 9
L-B Y (*6)
12 IB4
L-B
4
H

H13
HEADLIGHT CLEANER CONTROL RELAY

G-W → G-W
W-G → Y(*6)
V-G → W-G
GR-B → V-G
GR-B → R
V-G → GR-B
W-B(*6) → V-G
→ W-B(*6)
→ GR-B
B-W → B-W
L-Y → L-Y
R-L → R-L
G-B → G-B
G-Y → G-Y
R → R
W-B(*6) → W-B(*6)
W-B → W-B
R-L → R-L
R-B → R-B
W-B(*1) → W-B(*1)

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]



*1 : EUROPE
*6 : W/ REAR POWER SEAT

P3 (A), P4 (B), P5 (C)
PASSENGER SIDE J/B ECU

AIRBAG
MPX-B
PA1
PA2
PA3
M/F
M/B
PIND

FROM POWER SOURCE SYSTEM (SEE PAGE 180)

7.5A MPX-B2

A27
AIRBAG SENSOR ASSEMBLY
MPX2
MPX1

V1
VARIABLE MOTOR
COMMON
PA1 PA2 PA3 F/M B/M

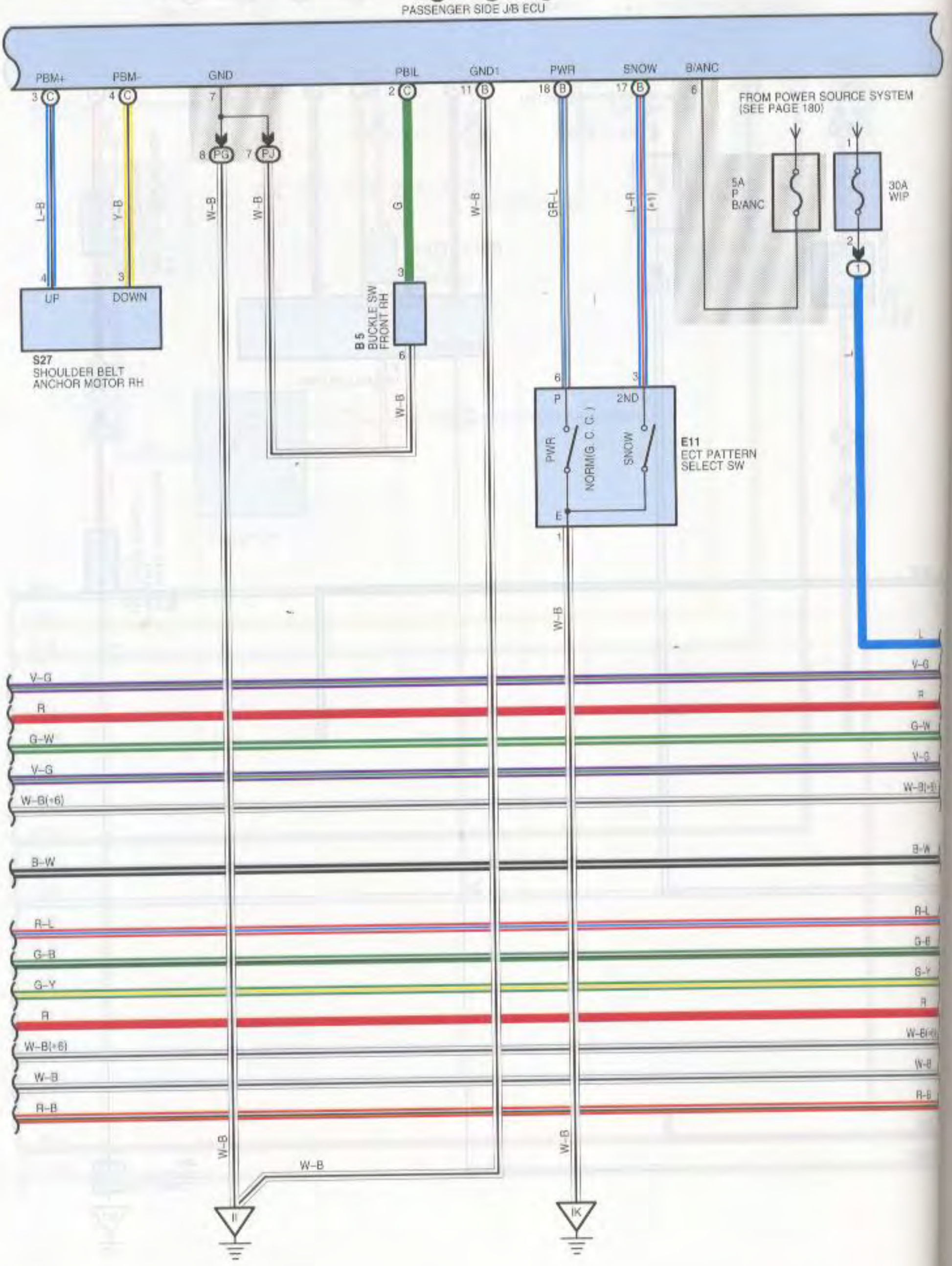
A7
PAD WEAR INDICATOR SW FRONT RH
(ABS SPEED SENSOR FRONT RH)

A33
PAD WEAR INDICATOR SW REAR RH
(ABS SPEED SENSOR REAR RH)

J30
JUNCTION CONNECTOR

R-B (*1)
R (*1)
Y-G (*1)
R-L (*1)
R-Y (*1)
W-B (*1)
L-Y
R-L
GR-B
G-W
V-G
R
W-B(*6)
B-W
G-B
G-Y
W-B

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]



P3 (A), P4 (B), P5 (C)
PASSENGER SIDE J/B ECU

WIP | S/S | +2 | S/M | HDLV | ALTL | WNG | REV

2 → 7 (PD) L
2 → 6 (PD) B-R

1 (A) P → 3 +S
2 (A) L-R → 2 +2
9 (A) B → 5 +B

13 (A) R-B → 7 B2
14 (A) P-G → 8 CHG-
15 (A) L → 21 WNG

1 (C) L-W → 14 (BE1) L-W → 2 REV

F10
FRONT WIPER MOTOR
1 –

H13
HEADLIGHT BEAM
LEVEL CONTROL ECU

R23
REAR SUNSHADE
CONTROL RELAY

1 W-B

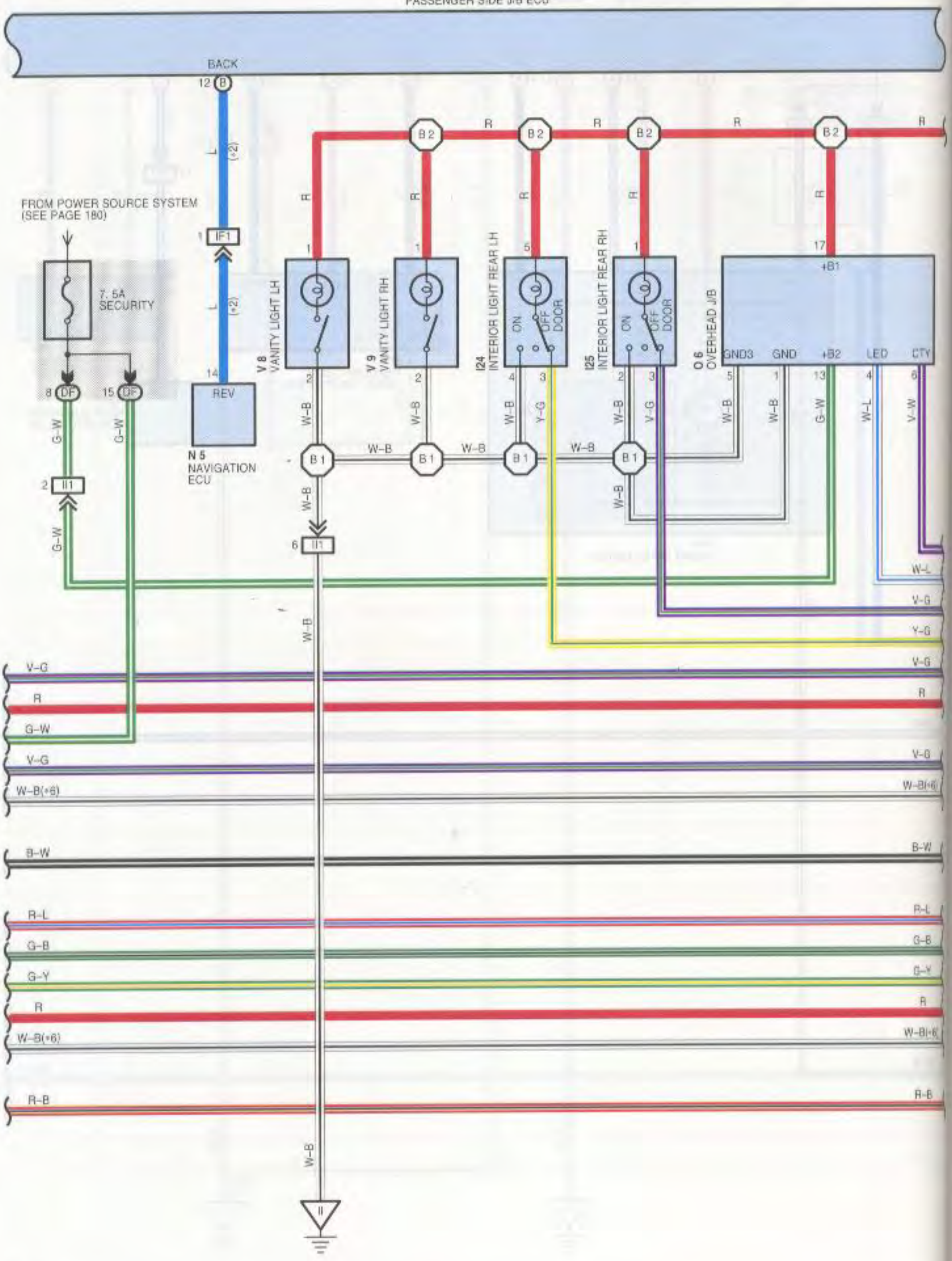
L
V-G
R
G-W
V-G
W-B(*6)

B-W

R-L
G-B
G-Y
R
W-B(*6)
W-B

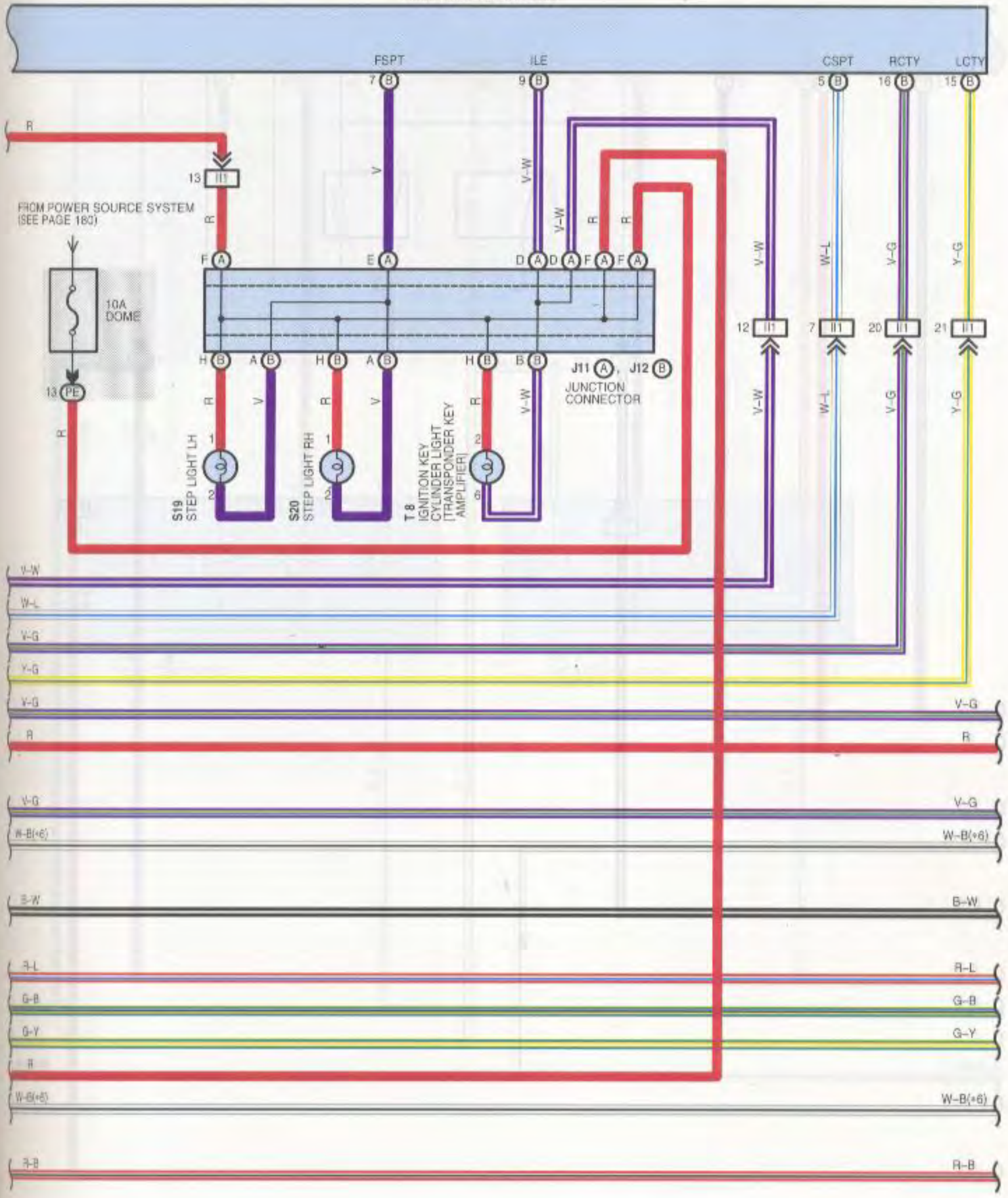
R-B

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]

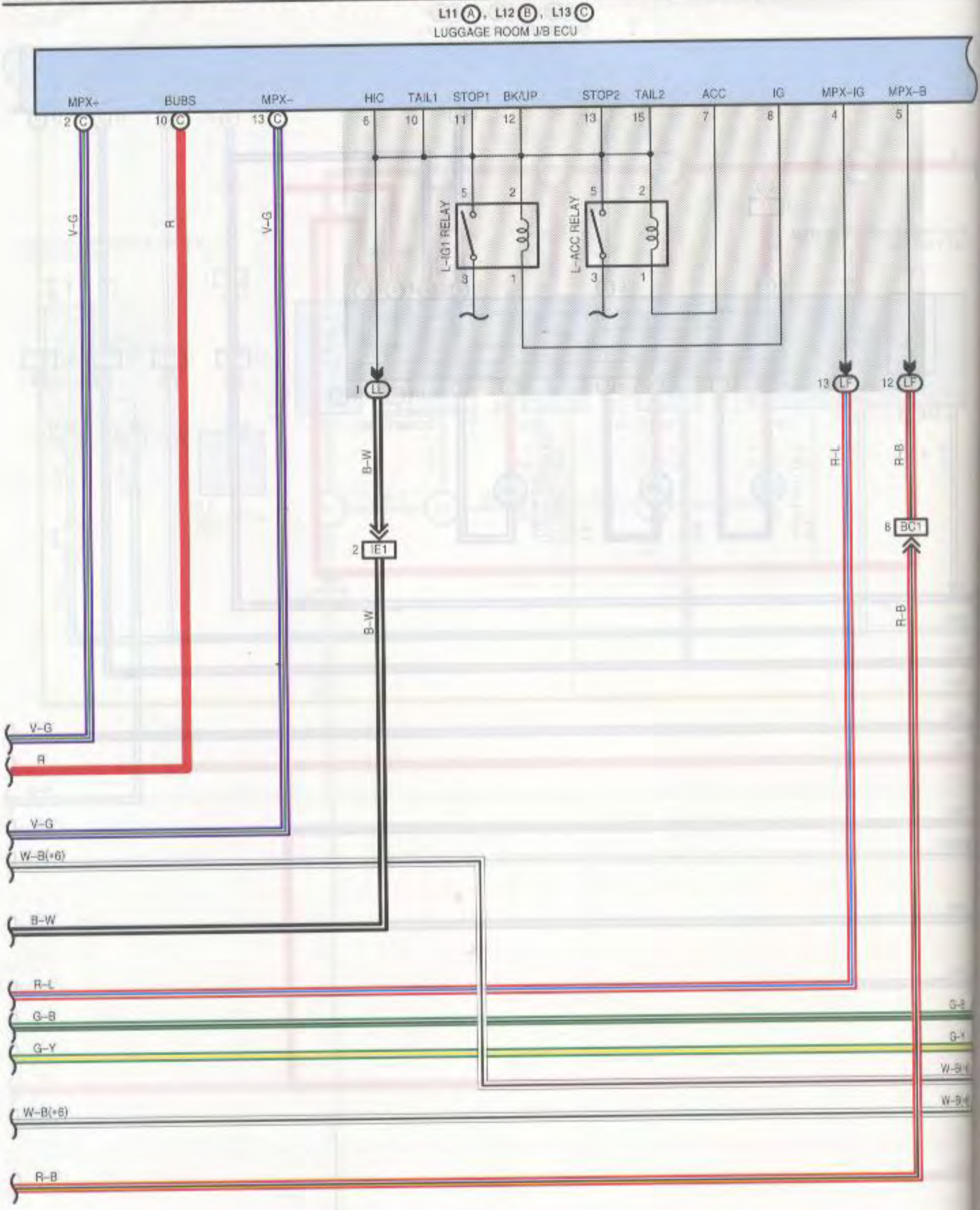


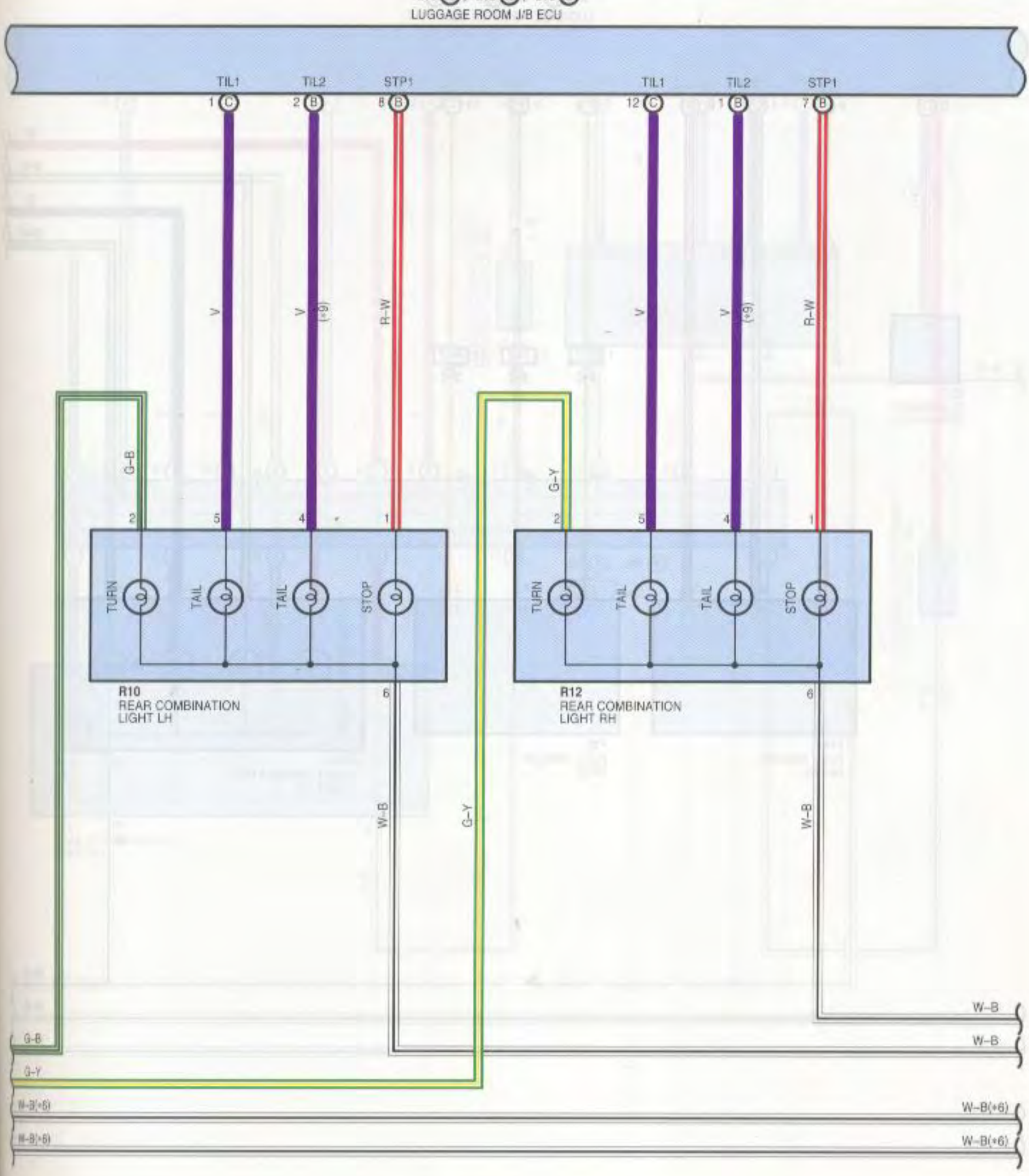
*2 : W/ LEXUS NAVIGATION SYSTEM
*6 : W/ REAR POWER SEAT

P3 (A), P4 (B), P5 (C)
PASSENGER SIDE J/B ECU

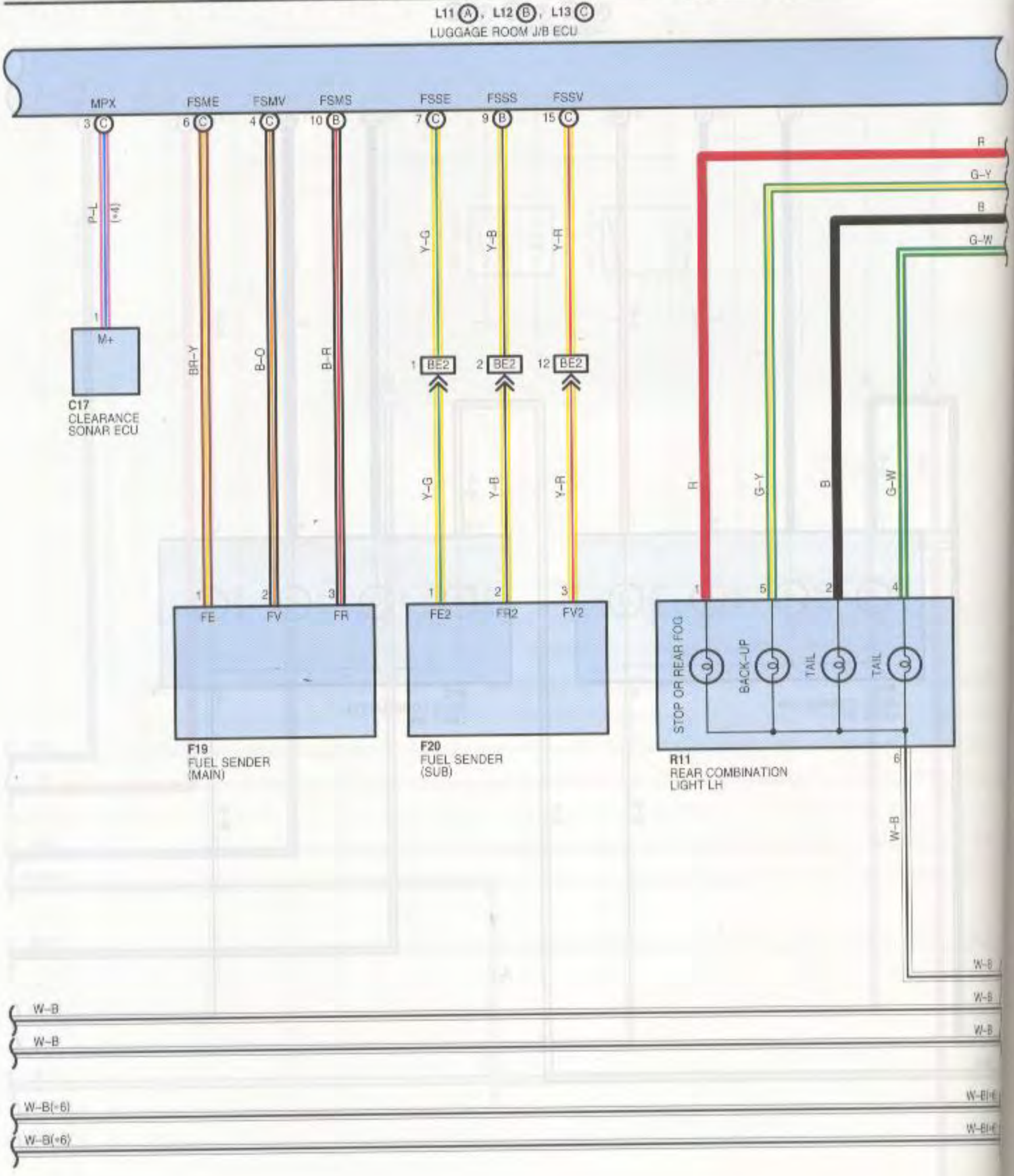


MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]




L11 (A), L12 (B), L13 (C)
LUGGAGE ROOM J/B ECU
TIL1
TIL2
STP1
1 (C)
2 (B)
8 (B)
12 (C)
1 (B)
7 (B)
V
V (*9)
R-W
G-B
G-Y
W-B
W-B(*6)
TURN
TAIL
TAIL
STOP
R10
REAR COMBINATION
LIGHT LH
R12
REAR COMBINATION
LIGHT RH

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]



*4 : W/ LEXUS PARK ASSIST (CLEARANCE SONAR)
*6 : W/ REAR POWER SEAT
*10 : W/ SMART KEY SYSTEM

L11 (A), L12 (B), L13 (C)
LUGGAGE ROOM J/B ECU

TIL4 TIL3 BCK1 STP2 TKUL LOPN LCLS LCM+ LCM- LCTY LPSW

L6
LUGGAGE COMPARTMENT DOOR KEY UNLOCK SW

L4
LUGGAGE COMPARTMENT DOOR CLOSER MOTOR
OPN CLS M+ M- CTY

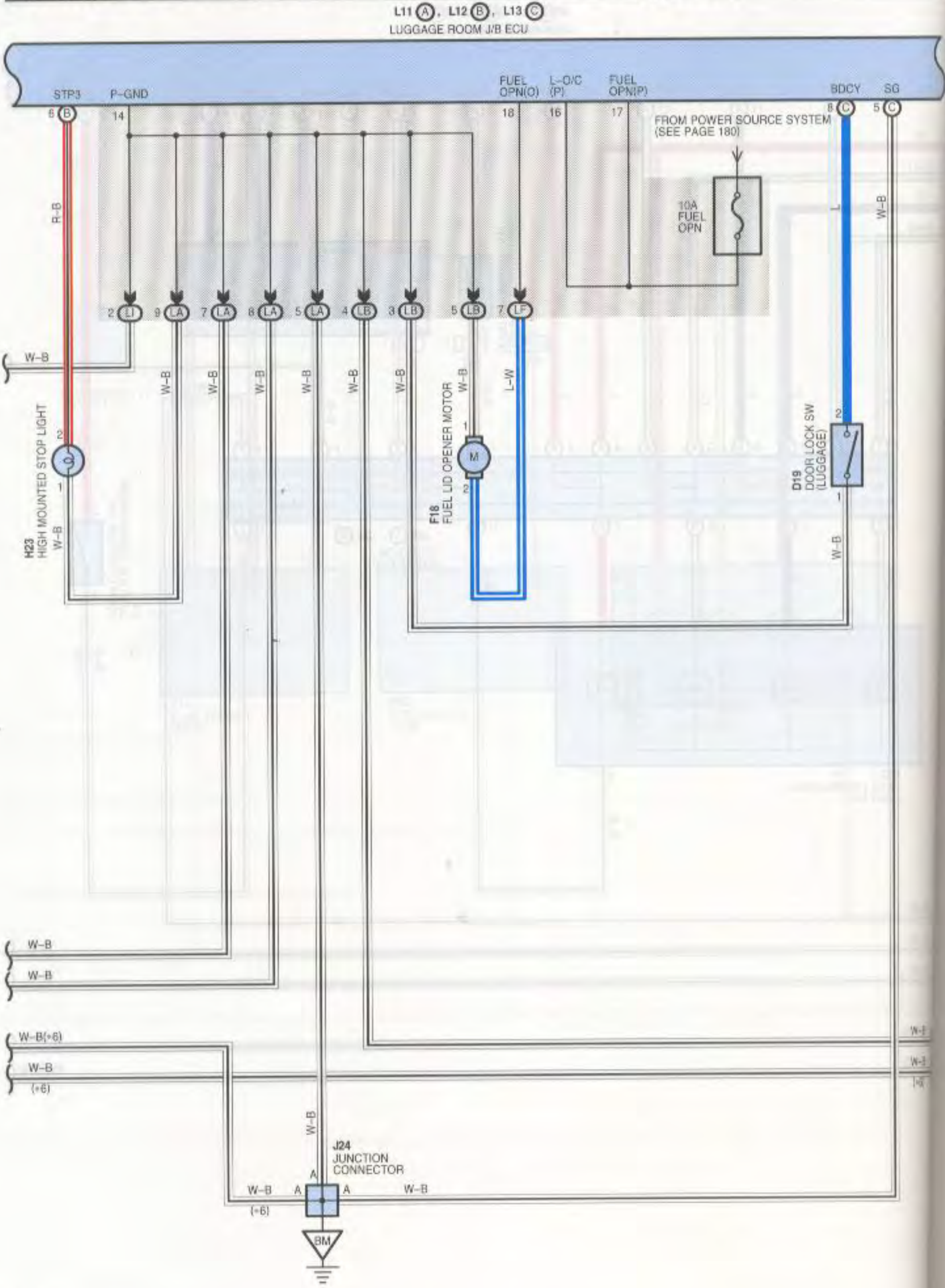
J25 (A), J26 (B)
JUNCTION CONNECTOR

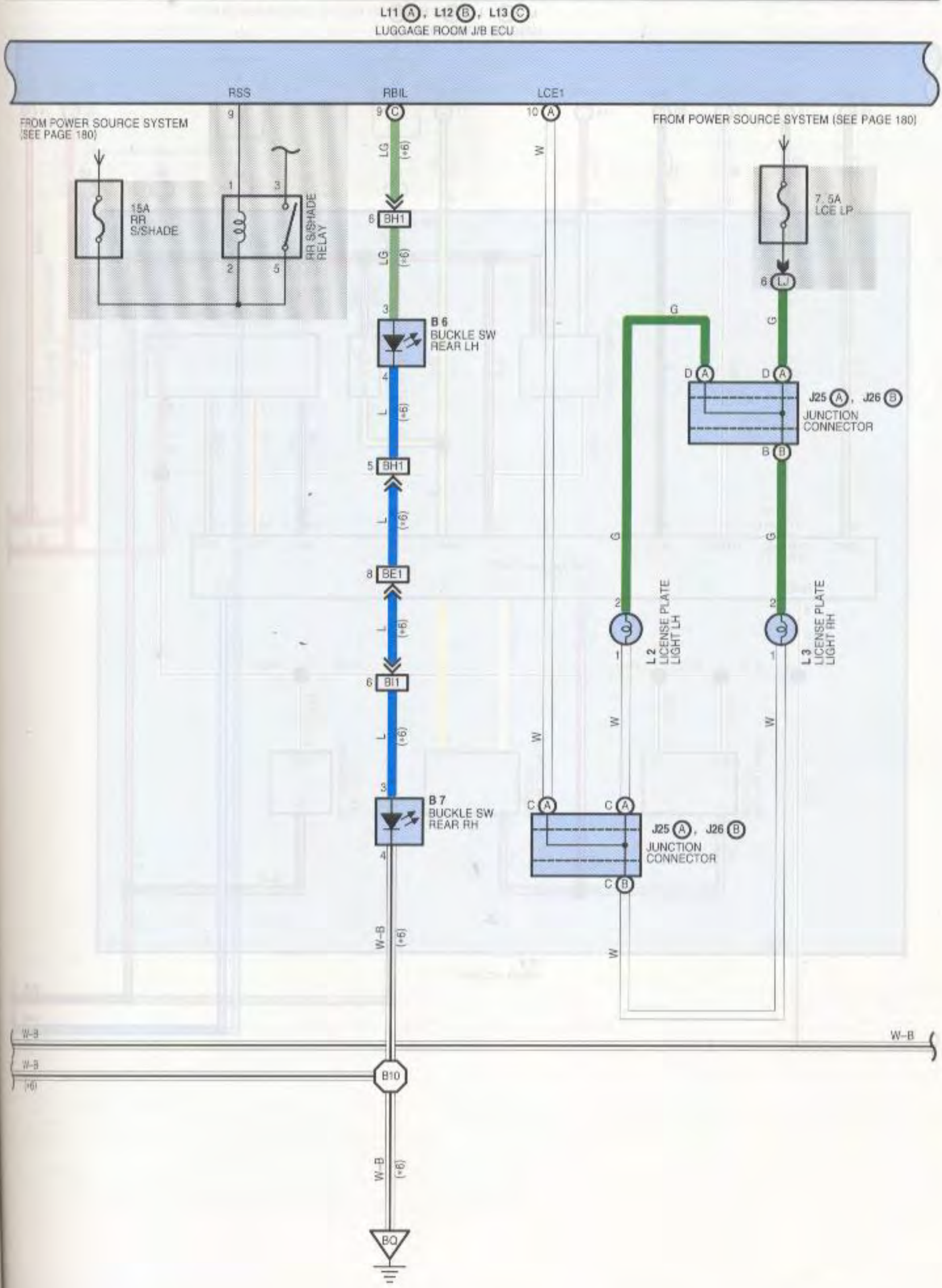
L5
LUGGAGE COMPARTMENT DOOR COURTESY SW

R13
REAR COMBINATION LIGHT RH
TAIL
TAIL
BACK-UP
STOP OR REAR FOG

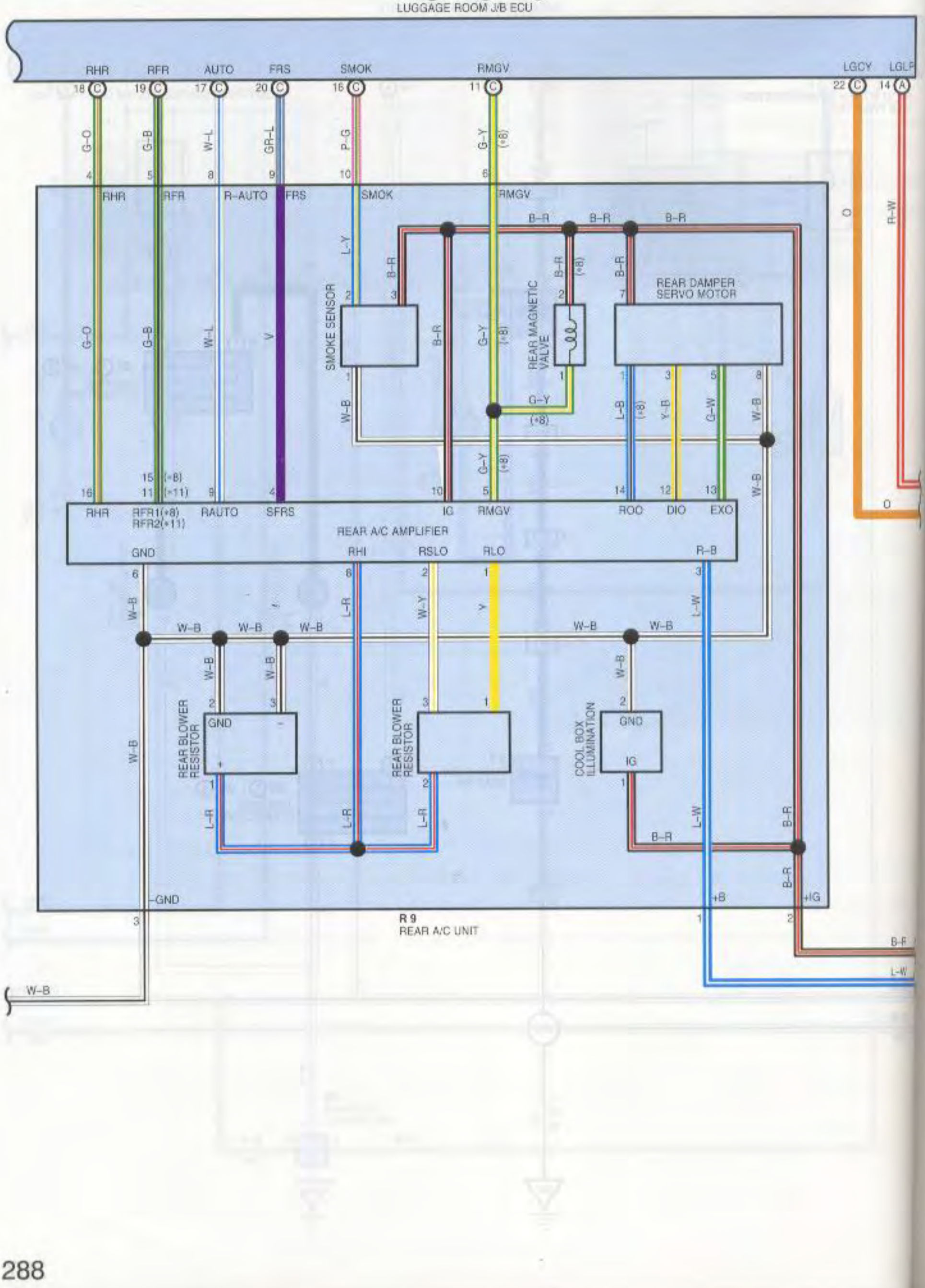
W-B
W-B
W-B
W-B(*6)
W-B(*6)

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]



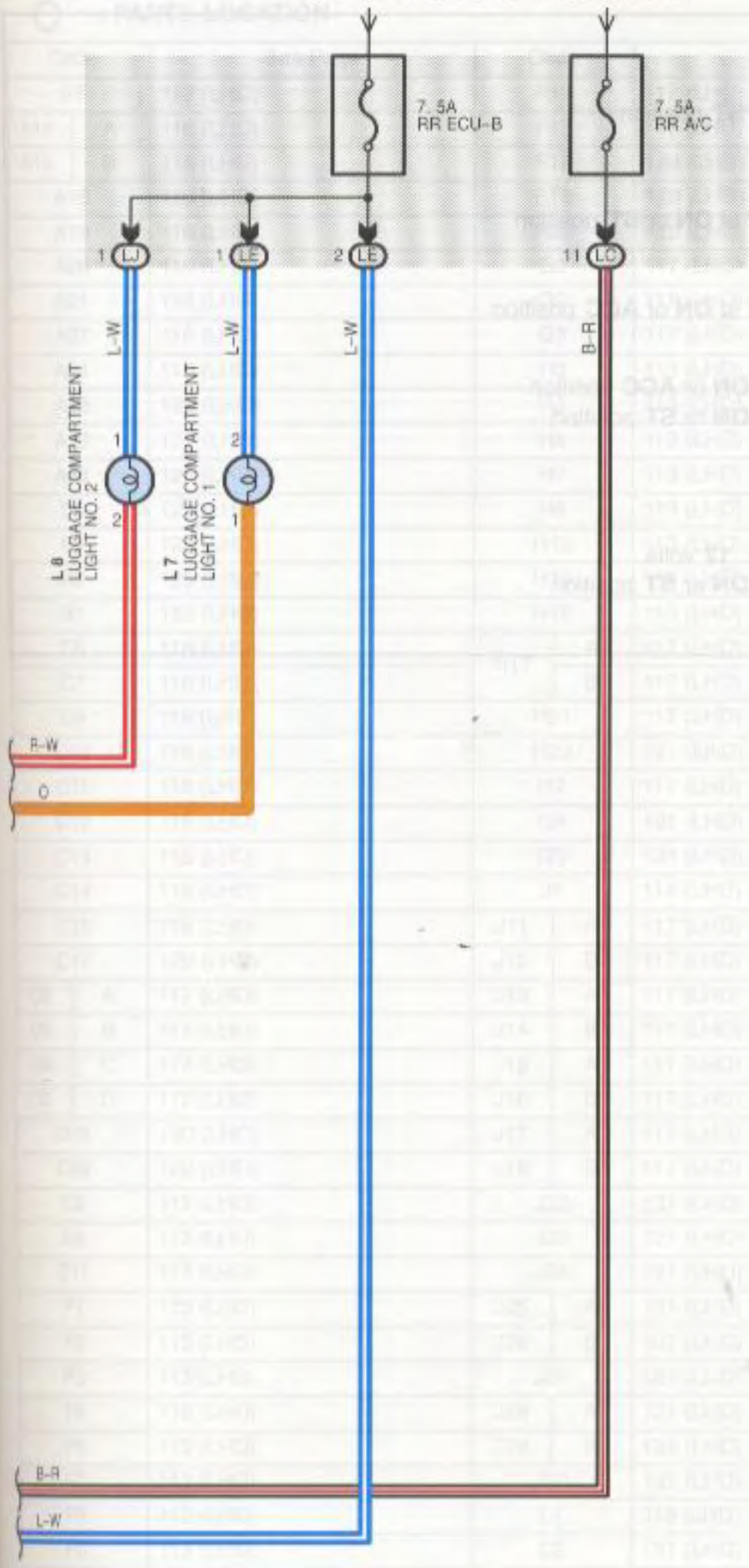

L11 A, L12 B, L13 C
LUGGAGE ROOM J/B ECU
RSS
RBIL
LCE1
FROM POWER SOURCE SYSTEM (SEE PAGE 180)
15A
RR
S/SHADE
RR S/SHADE RELAY
B 6
BUCKLE SW
REAR LH
B 7
BUCKLE SW
REAR RH
BH1
BE1
BI1
B10
BQ
FROM POWER SOURCE SYSTEM (SEE PAGE 180)
7.5A
LCE LP
LJ
J25 A, J26 B
JUNCTION
CONNECTOR
L 2
LICENSE PLATE
LIGHT LH
L 3
LICENSE PLATE
LIGHT RH
W-B

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]



*8 : W/ REAR COOLER
*11 : W/O REAR COOLER

FROM POWER SOURCE SYSTEM (SEE PAGE 180)



MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]

SERVICE HINTS

FRONT CONTROLLER

3, 6, 9, 11, 15, 29–GROUND : Always approx. **12** volts
30–GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
25–GROUND : Always continuity

D4 (C) DRIVER SIDE J/B ECU

3, 1–GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(C) 1, 6–GROUND : Always continuity
2, 7, 9, (C) 5–GROUND : Always approx. **12** volts
4–GROUND : Approx. **12** volts with ignition SW at **ON** or **ACC** position

P4 (B) PASSENGER SIDE J/B ECU

4–GROUND : Approx. **12** volts with ignition SW at **ON** or **ACC** position
2, 10–GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(B) 11, 7–GROUND : Always continuity
5, 6–GROUND : Always approx. **12** volts

L13 (C) LUGGAGE ROOM J/B ECU

5, 6, 10, 11, 12, 13, 15, 16, 17–GROUND : Always approx. **12** volts
4–GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(C) 5, 14–GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A7	112 (LHD)	F12	117 (LHD)	L4	121 (LHD)
A14 A	116 (LHD)	F13	117 (LHD)	L5	121 (LHD)
A15 B	116 (LHD)	F18	120 (LHD)	L6	121 (LHD)
A18	116 (LHD)	F19	120 (LHD)	L7	121 (LHD)
A19	116 (LHD)	F20	120 (LHD)	L8	121 (LHD)
A20	116 (LHD)	G1	117 (LHD)	L11 A	121 (LHD)
A21	116 (LHD)	G2	117 (LHD)	L12 B	121 (LHD)
A27	116 (LHD)	G3	117 (LHD)	L13 C	121 (LHD)
A31	116 (LHD)	H3	113 (LHD)	M1	118 (LHD)
A32	120 (LHD)	H5	113 (LHD)	N5	122 (LHD)
A33	120 (LHD)	H6	113 (LHD)	O3 A	118 (LHD)
A38	125 (LHD)	H7	113 (LHD)	O4 B	118 (LHD)
B4	124 (LHD)	H8	113 (LHD)	O5	118 (LHD)
B5	124 (LHD)	H13	113 (LHD)	O6	122 (LHD)
B6	125 (LHD)	H15	113 (LHD)	P3 A	118 (LHD)
B7	125 (LHD)	H16	113 (LHD)	P4 B	118 (LHD)
C6	116 (LHD)	H17 A	117 (LHD)	P5 C	118 (LHD)
C7	116 (LHD)	H17 B	117 (LHD)	P7	118 (LHD)
C8	116 (LHD)	H21	117 (LHD)	R4	119 (LHD)
C10	116 (LHD)	H23	121 (LHD)	R6	119 (LHD)
C11	116 (LHD)	I17	117 (LHD)	R9	122 (LHD)
C12	116 (LHD)	I24	121 (LHD)	R10	122 (LHD)
C13	116 (LHD)	I25	121 (LHD)	R11	122 (LHD)
C14	116 (LHD)	J7	114 (LHD)	R12	122 (LHD)
C15	116 (LHD)	J11 A	117 (LHD)	R13	122 (LHD)
C17	120 (LHD)	J12 B	117 (LHD)	R21	122 (LHD)
D2 A	117 (LHD)	J13 A	117 (LHD)	R22	122 (LHD)
D3 B	117 (LHD)	J14 B	117 (LHD)	R23	122 (LHD)
D4 C	117 (LHD)	J15 A	117 (LHD)	R29	125 (LHD)
D5 D	117 (LHD)	J16 B	117 (LHD)	S8	119 (LHD)
D19	120 (LHD)	J17 A	117 (LHD)	S12 B	119 (LHD)
D26	120 (LHD)	J18 B	117 (LHD)	S13 C	119 (LHD)
E3	112 (LHD)	J22	121 (LHD)	S19	119 (LHD)
E8	112 (LHD)	J23	121 (LHD)	S20	119 (LHD)
E11	117 (LHD)	J24	121 (LHD)	S21	119 (LHD)
F1	113 (LHD)	J25 A	121 (LHD)	S24	123 (LHD)
F2	113 (LHD)	J26 B	121 (LHD)	S27	123 (LHD)
F3	113 (LHD)	J27	121 (LHD)	T7	119 (LHD)
F4	113 (LHD)	J28 A	121 (LHD)	T8	119 (LHD)
F6	113 (LHD)	J29 B	121 (LHD)	V1	115 (LHD)
F7	113 (LHD)	J30	121 (LHD)	V8	123 (LHD)
F8	113 (LHD)	L1	118 (LHD)	V9	123 (LHD)
F9	113 (LHD)	L2	121 (LHD)	W1	115 (LHD)
F10	113 (LHD)	L3	121 (LHD)	W2	115 (LHD)

▢ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	81	Engine Room No.1 R/B (Engine Compartment Left)
2	82	Engine Room No.2 R/B (Engine Compartment Left)
4	84 (LHD)	Fusible Link Block (Engine Compartment Right)

MULTIPLEX COMMUNICATION SYSTEM (J/B ECU) [LHD]

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	81	Engine Room Main Wire and Engine Room No.1 J/B (Engine Compartment Left)
4A	84 (LHD)	Engine Room Main Wire and Fusible Link Block (Engine Compartment Right)
4B		
DC	88 (LHD)	Engine Room Main Wire and Driver Side J/B (Left Kick Panel)
DD		
DE	87 (LHD)	Instrument Panel Wire and Driver Side J/B (Left Kick Panel)
DF		
DG		
DH		
DI	89 (LHD)	Floor No.2 Wire and Driver Side J/B (Left Kick Panel)
LA	110	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LB		
LC		
LE		
LF		
LI	110	Luggage Room Wire and Luggage Room J/B (Luggage Room Left)
LJ		
LL	110	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PC	93 (LHD)	Engine Room Main Wire and Passenger Side J/B (Right Kick Panel)
PD		
PE	94 (LHD)	Instrument Panel Wire and Passenger Side J/B (Right Kick Panel)
PF		
PG		
PH		
PI	95 (LHD)	Floor Wire and Passenger Side J/B (Right Kick Panel)
PJ		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

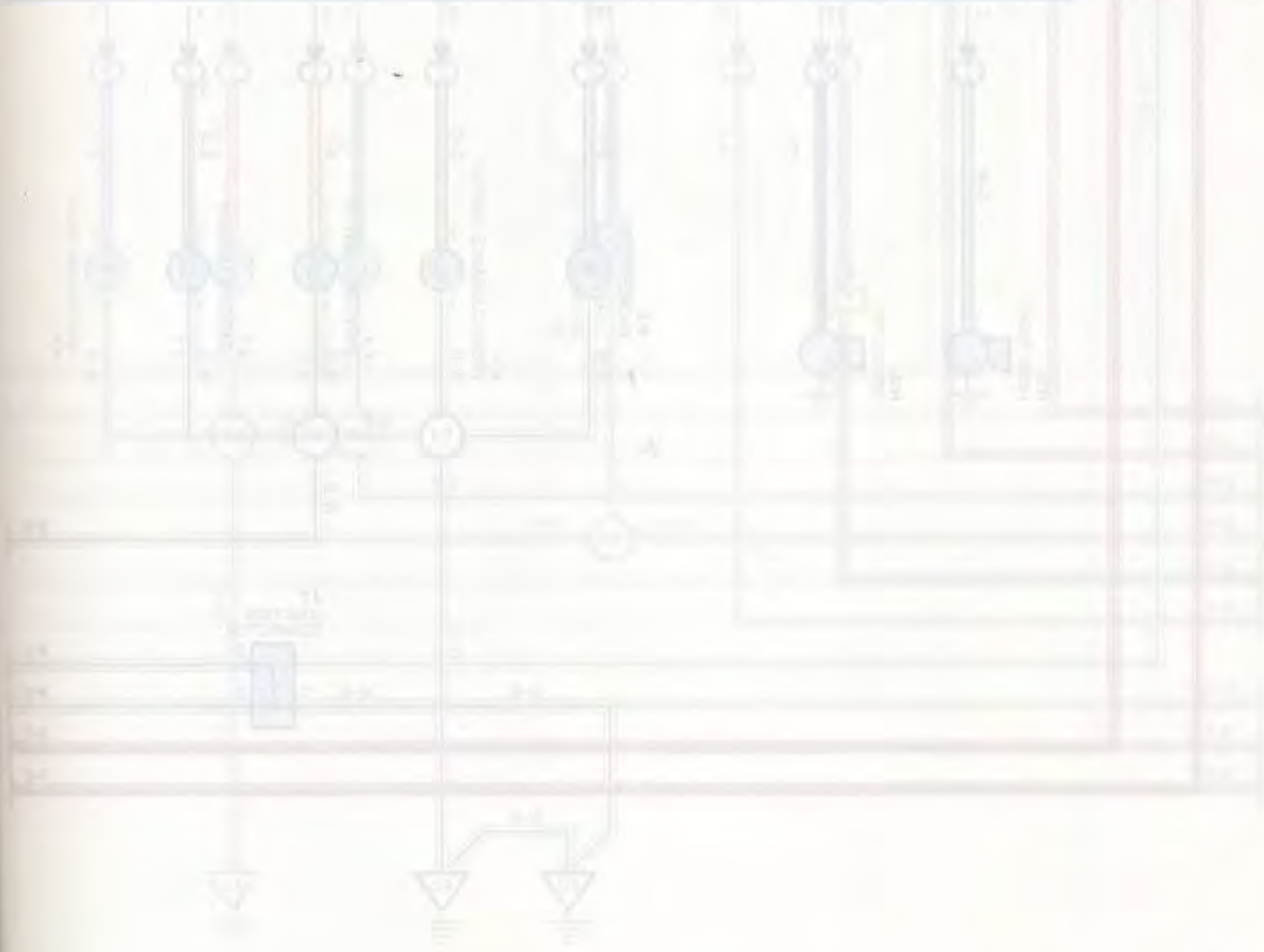
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	142 (LHD)	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IB4	142 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Cowl Side Panel LH)
IC1	142 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Cowl Side Panel LH)
IC2		
IC3		
IE1	142 (LHD)	Engine Room Main Wire and Floor No.2 Wire (Left Kick Panel)
IF1	144 (LHD)	Instrument Panel Wire and Floor Wire (Right Side of Shift Lever)
IG2	144 (LHD)	Instrument Panel Wire and Floor Wire (Cowl Side Panel RH)
IH2	144 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Cowl Side Panel RH)
II1	144 (LHD)	Instrument Panel Wire and Roof Wire (Cowl Side Panel RH)
BA2	146 (LHD)	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BB2	146 (LHD)	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BC1	146 (LHD)	Floor No.2 Wire and Floor Wire (Rear Floor Partition Panel LH)
BE1	146 (LHD)	Floor No.2 Wire and Floor Wire (Lower Back Panel RH)
BE2		
BF1	148 (LHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)
BH1	150 (LHD)	Rear Seat LH Wire and Floor No.2 Wire (Under the Rear Passenger's LH Seat)
BI1	150 (LHD)	Rear Seat RH Wire and Floor Wire (Under the Rear Passenger's RH Seat)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
EA	140 (LHD)	Radiator Side Support RH
EC	140 (LHD)	Radiator Side Support LH
ED	140 (LHD)	Cowl Top Side LH
IG	142 (LHD)	Left Side of Instrument Panel
IH	142 (LHD)	Right Side of Shift Lever
II		
IK	142 (LHD)	Cowl Side Panel RH
BL	146 (LHD)	Rear Floor Partition Panel LH
BM	146 (LHD)	Quarter Panel LH
BN	146 (LHD)	Rear Floor Partition Panel RH
BO	146 (LHD)	Quarter Panel RH
BQ	150 (LHD)	Rear Passenger RH Seat Back

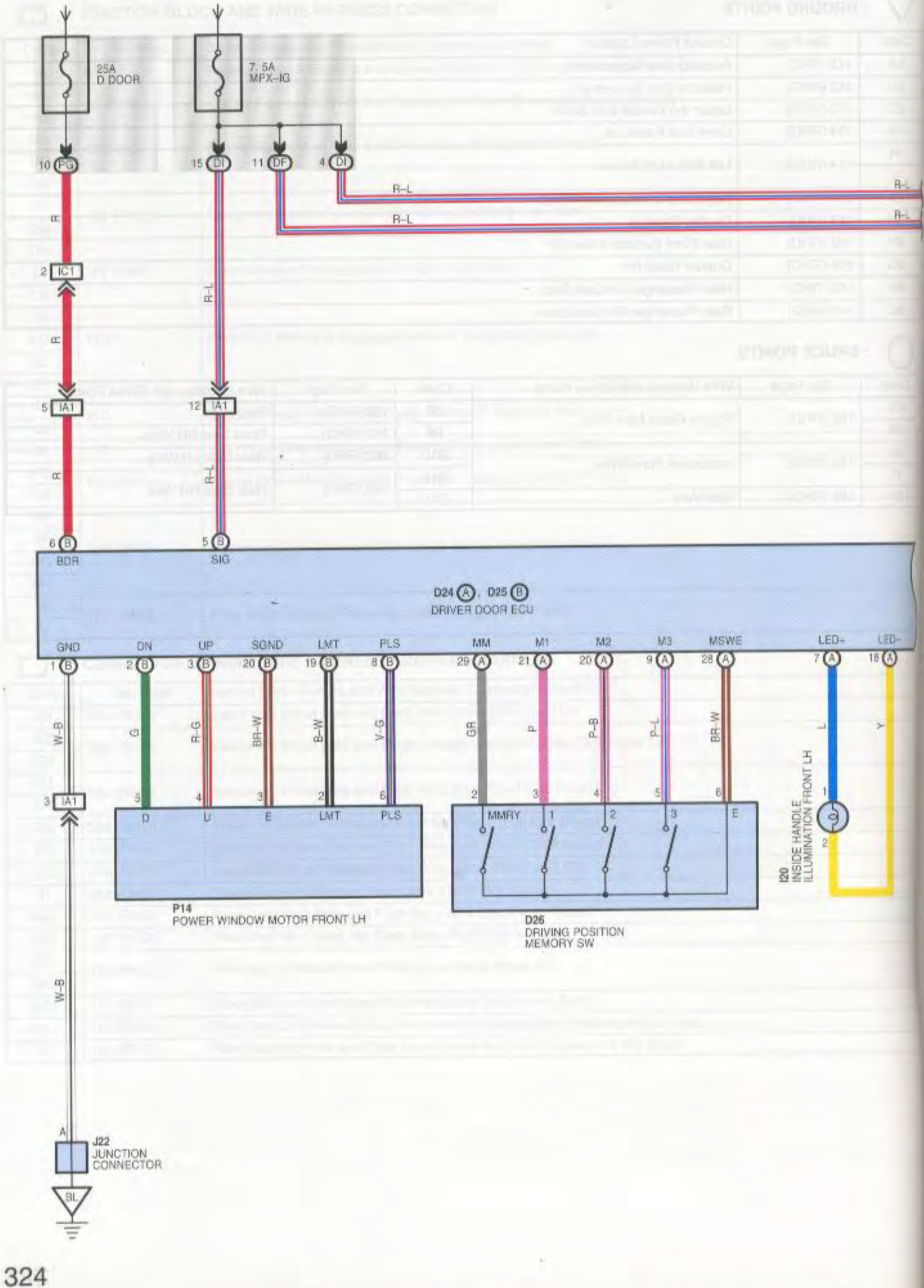
⬡ : SPLICE POINTS

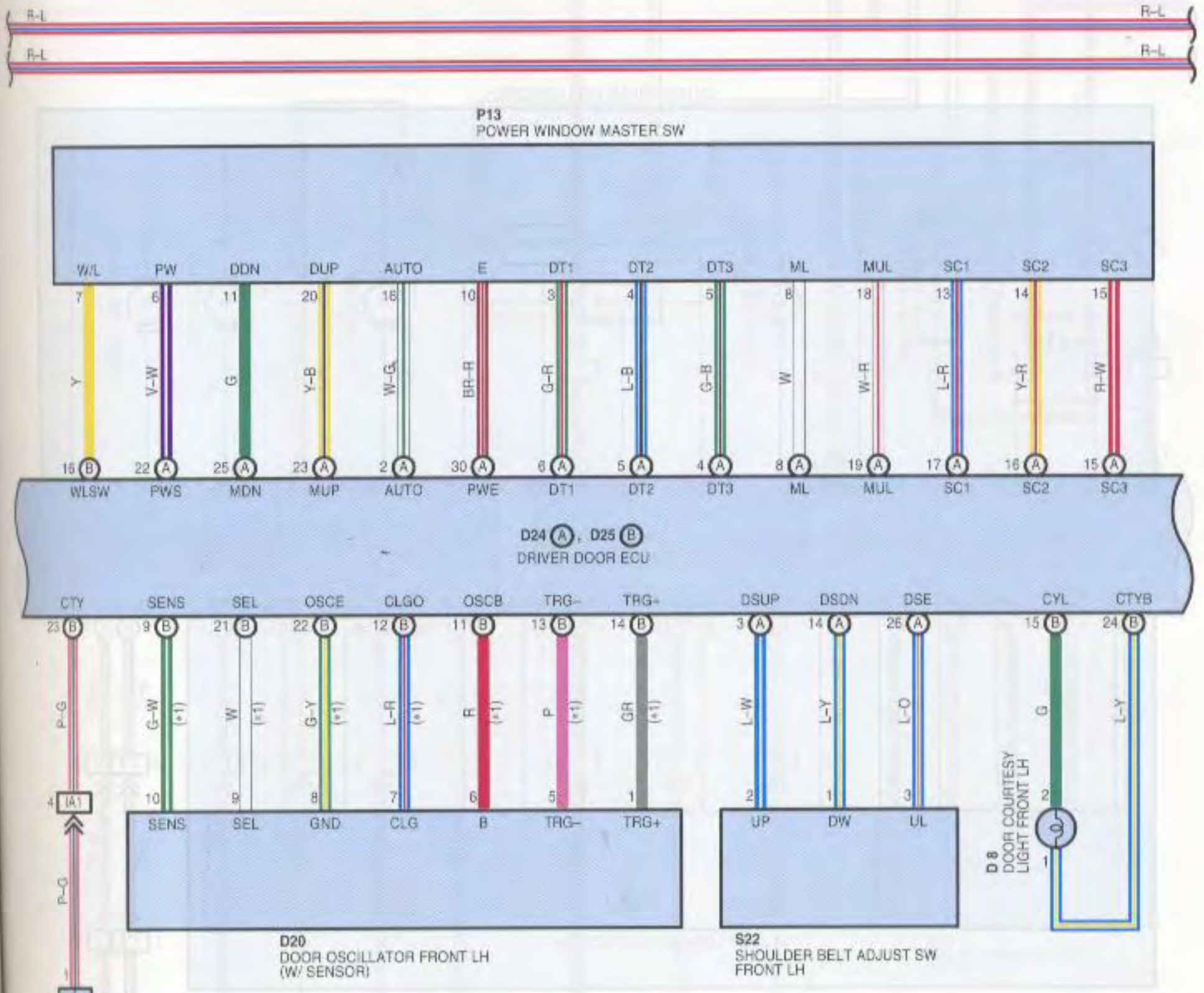
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E4	140 (LHD)	Engine Room Main Wire	B1	146 (LHD)	Roof Wire
E6			B2		
I5	144 (LHD)	Instrument Panel Wire	B10	150 (LHD)	Rear Seat RH Wire
I6			B11		



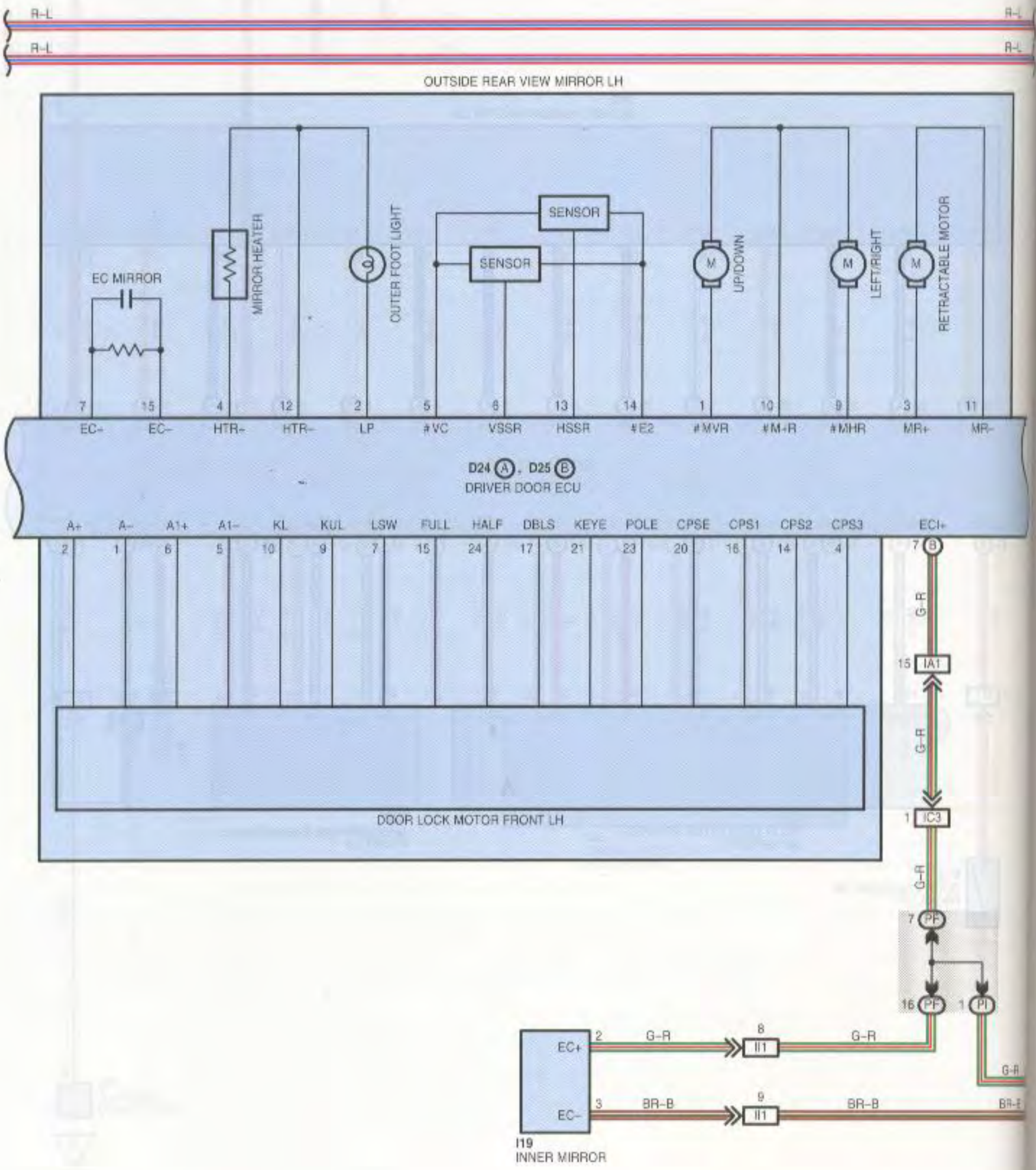
MULTIPLEX COMMUNICATION SYSTEM (DOOR ECU) [LHD]

FROM POWER SOURCE SYSTEM (SEE PAGE 180)




R-L
R-L
R-L
R-L
P13
POWER WINDOW MASTER SW
W/L
PW
DDN
DUP
AUTO
E
DT1
DT2
DT3
ML
MUL
SC1
SC2
SC3
7
6
11
20
16
10
3
4
5
8
18
13
14
15
Y
V-W
G
Y-B
W-G
BR-R
G-R
L-B
G-B
W
W-R
L-R
Y-R
R-W
16 B
22 A
25 A
23 A
2 A
30 A
6 A
5 A
4 A
8 A
19 A
17 A
16 A
15 A
WLSW
PWS
MDN
MUP
AUTO
PWE
DT1
DT2
DT3
ML
MUL
SC1
SC2
SC3
D24 A, D25 B
DRIVER DOOR ECU
CTY
SENS
SEL
OSCE
CLGO
OSCB
TRG-
TRG+
DSUP
DSDN
DSE
CYL
CTYB
23 B
9 B
21 B
22 B
12 B
11 B
13 B
14 B
3 A
14 A
26 A
15 B
24 B
P-G
G-W
W
G-Y
L-R
R
P
GR
L-W
L-Y
L-O
G
L-Y
(*1)
4 A1
10
9
8
7
6
5
1
2
1
3
2
1
SENS
SEL
GND
CLG
B
TRG-
TRG+
UP
DW
UL
P-G
D20
DOOR OSCILLATOR FRONT LH
(W/ SENSOR)
S22
SHOULDER BELT ADJUST SW
FRONT LH
D8
DOOR COURTESY
LIGHT FRONT LH
D12
DOOR COURTESY SW
FRONT LH

MULTIPLEX COMMUNICATION SYSTEM (DOOR ECU) [LHD]



FROM POWER SOURCE SYSTEM (SEE PAGE 180)

25A P DOOR

7.5A MPX-B1

D24 (A), D25 (B) DRIVER DOOR ECU

F16 (A), F17 (B) FRONT PASSENGER DOOR ECU

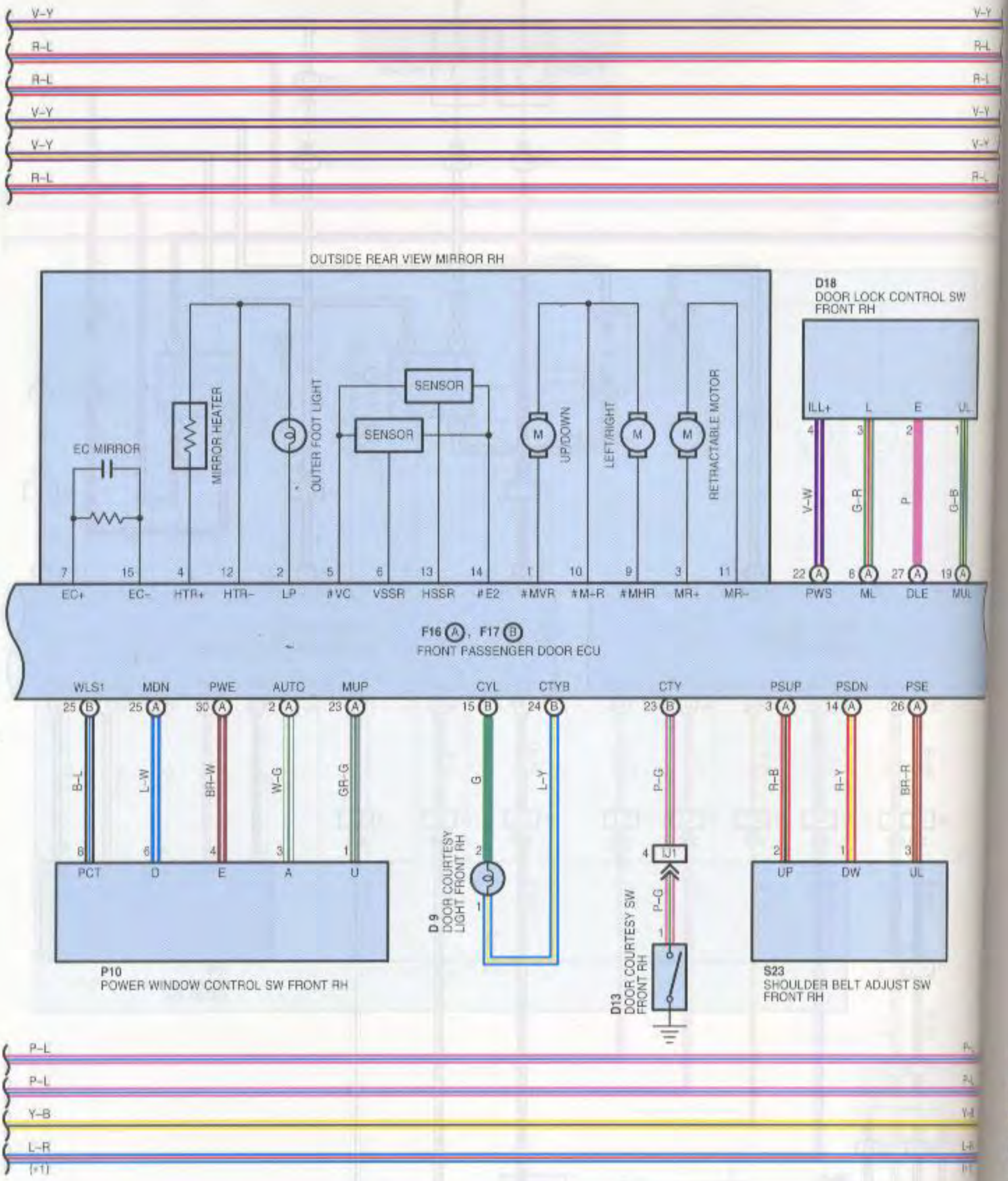
J11 (A), J12 (B) JUNCTION CONNECTOR

J13 (A), J14 (B) JUNCTION CONNECTOR

P15 POWER WINDOW MOTOR FRONT RH

J27 JUNCTION CONNECTOR

MULTIPLEX COMMUNICATION SYSTEM (DOOR ECU) [LHD]



V–Y
R–L
R–L
V–Y
V–Y
R–L

P–L
P–L
L–B (*1)

DOOR LOCK MOTOR FRONT RH

10 IJ1
14 IJ1
17 IJ1

P–L
P–L
L–B (*1)

2 A+ | 1 A– | 6 A1+ | 5 A1– | 10 KL | 9 KUL | 7 LSW | 15 FULL | 24 HALF | 17 DBLS | 21 KEYE | 23 POLE | 20 CPSE | 16 CPS1 | 14 CPS2 | 4 CPS3

17 (B) MPX1 | 26 (B) MPX2 | 10 (B) CLGI

F16 (A), F17 (B)
FRONT PASSENGER DOOR ECU

SENS | SEL | OSCE | CLGO | OSCB | TRG– | TRG+ | LED+ | LED–

9 (B) G–W (*1) 10
21 (B) W (*1) 8
22 (B) G–Y (*1) 6
12 (B) L–B (*1) 7
11 (B) R (*1) 6
13 (B) P (*1) 5
14 (B) GR (*1) 1
7 (A) L 1
18 (A) Y 2

SENS | SEL | GND | CLG | B | TRG– | TRG+

I21
INSIDE HANDLE ILLUMINATION FRONT RH

Y–B

9 (DG)
18 (PE)
21 (DI)
19 (DI)
13 (PI)
2 (PI)

16 (B) Y–B
13 IJ1

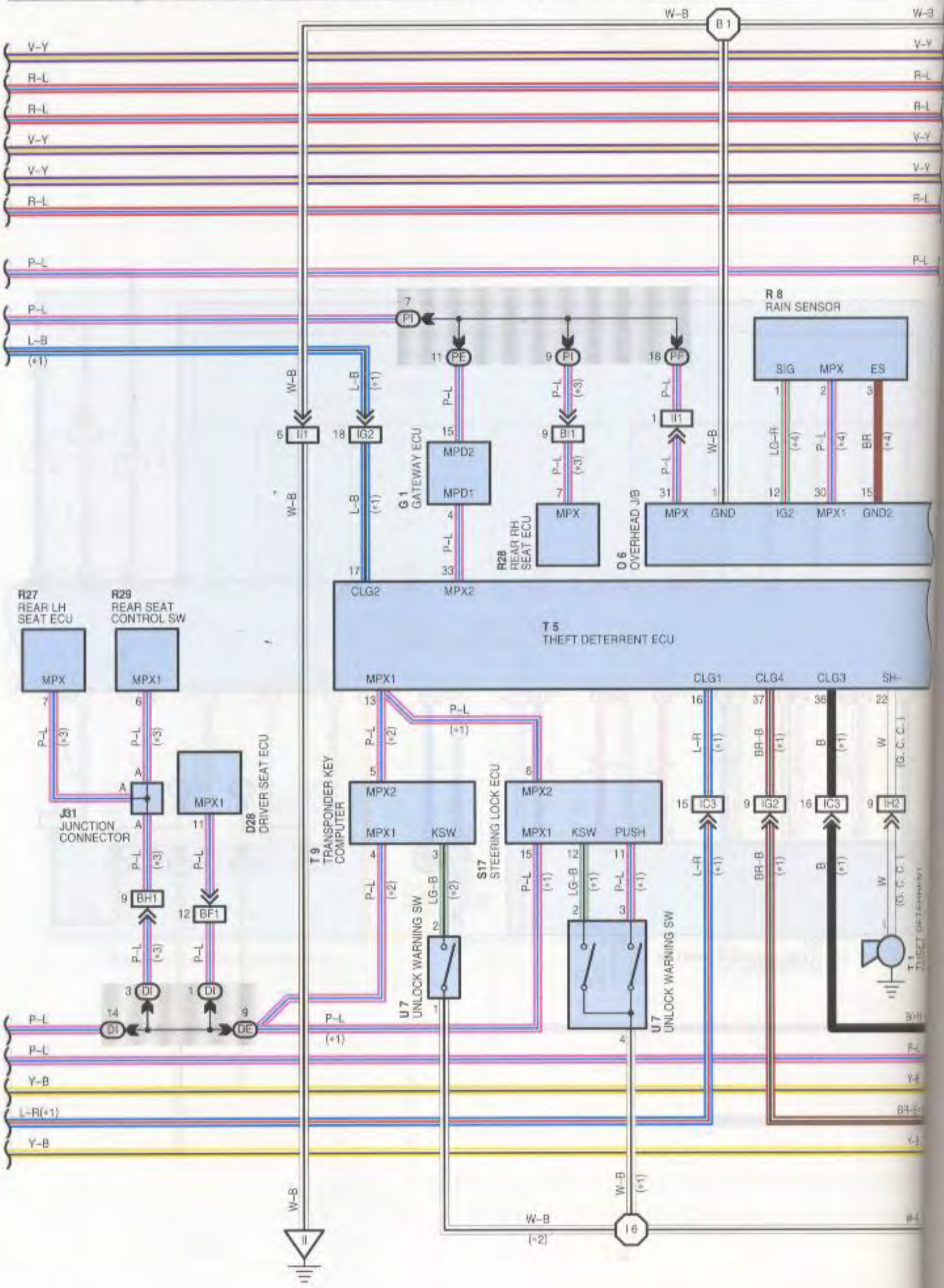
Y–B
Y–B
Y–B
Y–B

D21
DOOR OSCILLATOR FRONT RH
(W/ SENSOR)

P–L
P–L
Y–B
L–R (*1)

P–L
P–L
Y–B
L–R(*1)
Y–B

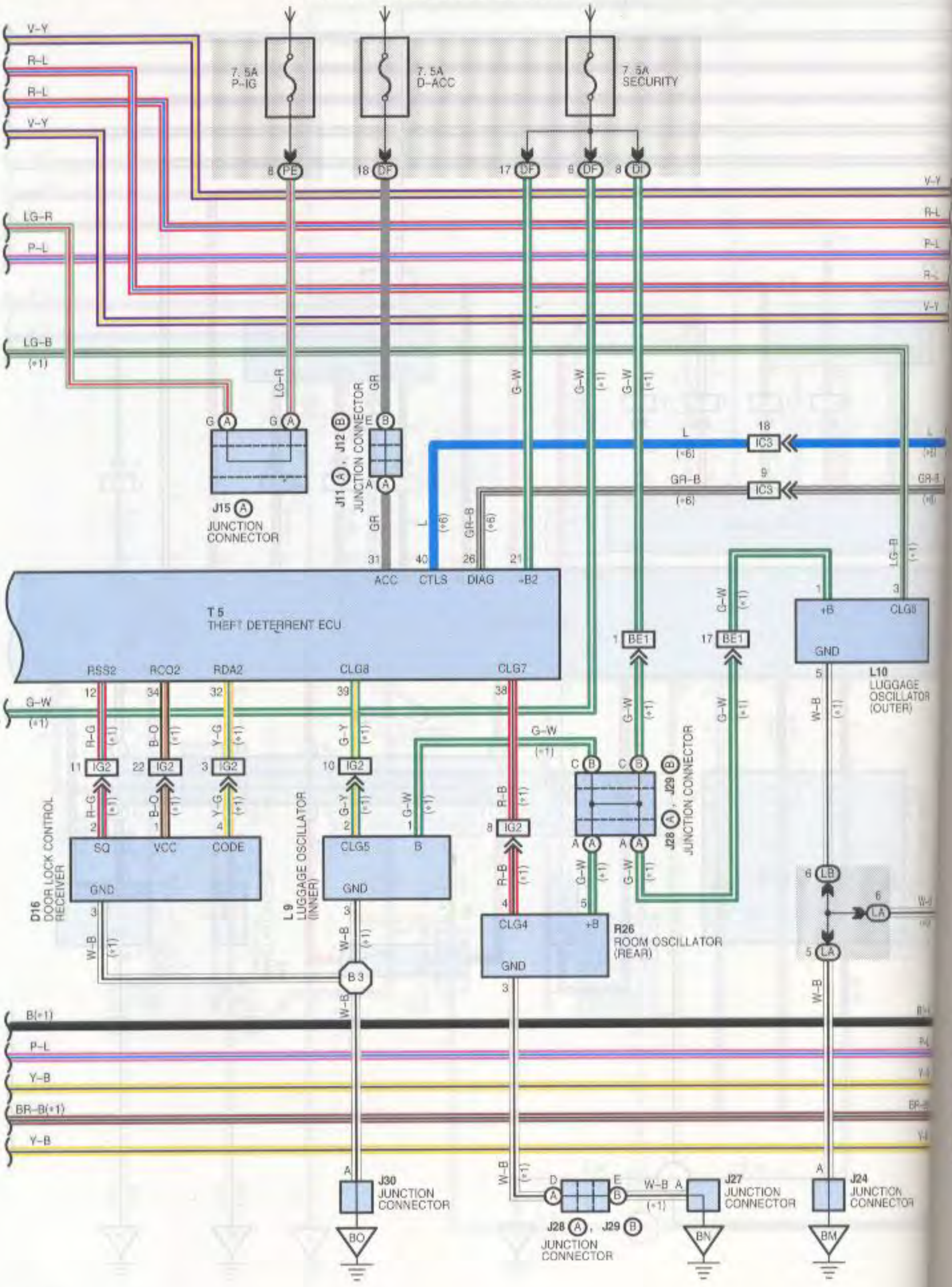
MULTIPLEX COMMUNICATION SYSTEM (DOOR ECU) [LHD]



*1 : W/ SMART KEY SYSTEM
*2 : W/O SMART KEY SYSTEM
*3 : W/ REAR POWER SEAT
*4 : W/ RAIN SENSOR
*5 : W/ MOON ROOF

M4
MOON ROOF CONTROL ECU
MPX1
MPX2
IG
S+B
IOUT
SOFF
O6
OVERHEAD J/B
I19
DOOR LOCK CONTROL RECEIVER [INNER MIRROR]
E1
RSSI
DATA
+5
IC3
SSW1
IOUT
S+B
RSSI
RDA
RCO
IG
+B1
CLG6
T5
THEFT DETERRENT ECU
IND
IND2
E
BZR
BZR2
BZRG
BZR3
CNSL
CLG5
J15 A , J16 B
JUNCTION CONNECTOR
R6
SECURITY INDICATOR LIGHT [RHEOSTAT]
LP
SEID
IH2
K1
KEYLESS BUZZER
BUZZER
K4
KEYLESS BUZZER ON/OFF SW
S15
SMART KEY SYSTEM CANCEL SW
R7
ROOM OSCILLATOR (FRONT)
CLG3
+B
GND
I6
IH
IG
IK

MULTIPLEX COMMUNICATION SYSTEM (DOOR ECU) [LHD]



* 1 : W/ SMART KEY SYSTEM
* 6 : EUROPE

FROM POWER SOURCE SYSTEM (SEE PAGE 180)

7.5A RR IG

7.5A RR ECU-B

20A RR DOOR LH

14 LE, 4 LE, 10 LC

V-Y, R-L, P-L

R-L (*6), L-W (*6)

T16 THEFT DETERRENT SIREN

IG, +B, CTLS, DS, GND

R-B, L, D14 DOOR COURTESY SW REAR LH

D10 DOOR COURTESY LIGHT REAR LH

I22 INSIDE HANDLE ILLUMINATION REAR LH

BA2, BA1

CPUB, SIG, BDR, CTY, CYL, CTYB, LED-, LED+

R14 (A), R15 (B)
REAR DOOR LH ECU

CLGI, MPX1, PCTI, DN, UP, PLS, LMT, SGND, MUP, MDN, AUTO, PCTO, PWE

P16
POWER WINDOW MOTOR REAR LH

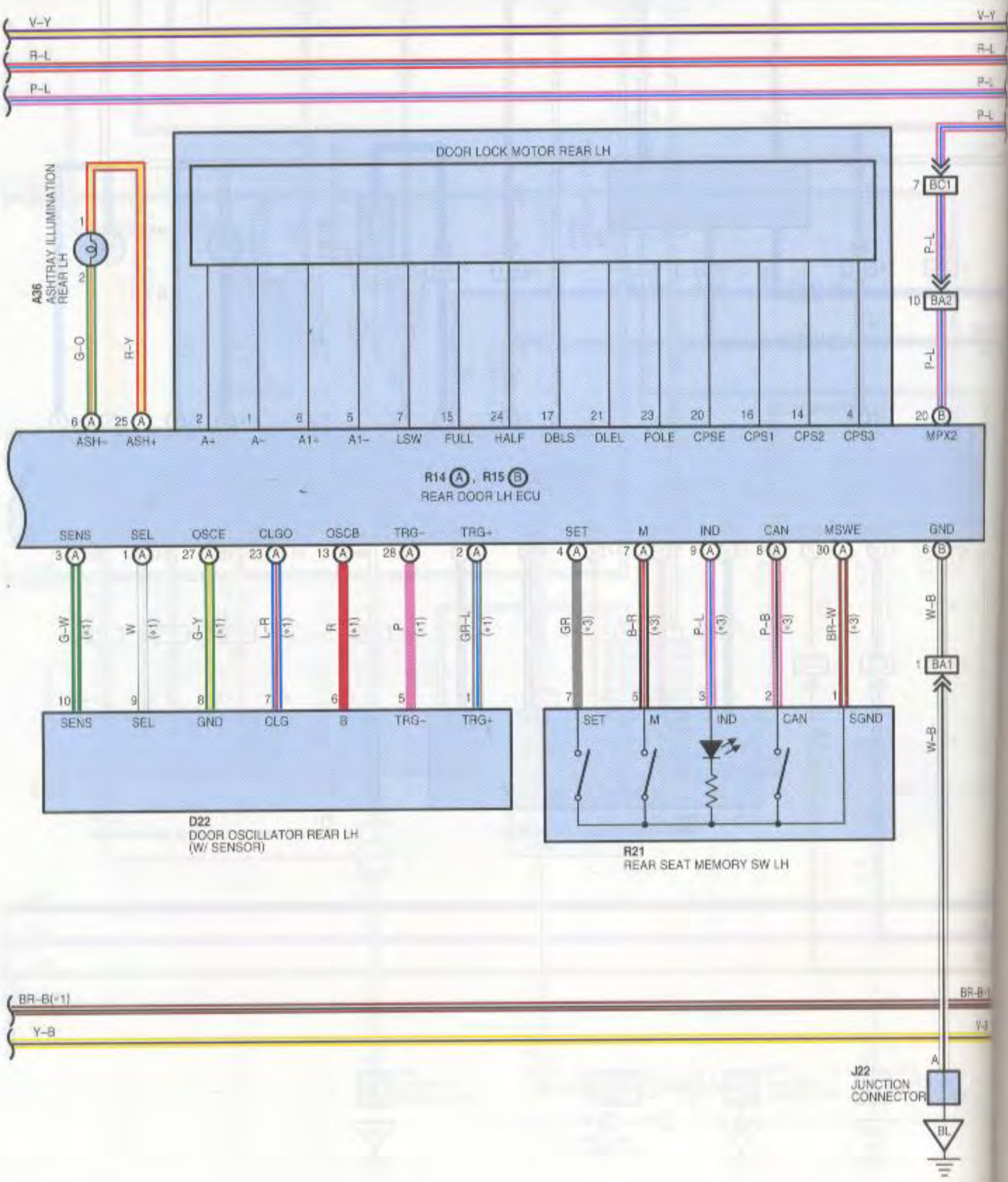
D, U, PLS, LMT, E

P11
POWER WINDOW CONTROL SW REAR LH

U, D, A, PCT, E

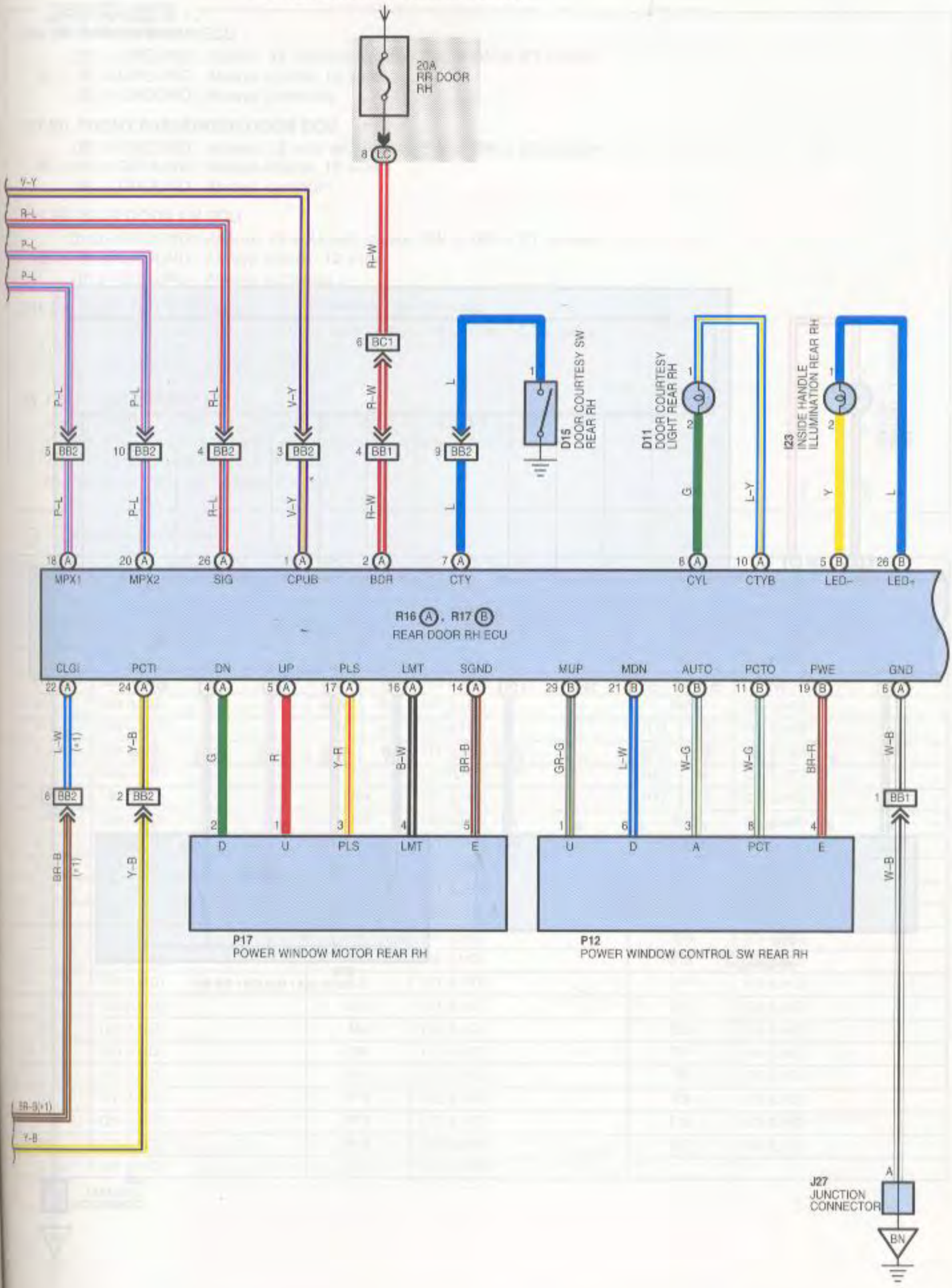
BR-B(*1), Y-B

MULTIPLEX COMMUNICATION SYSTEM (DOOR ECU) [LHD]



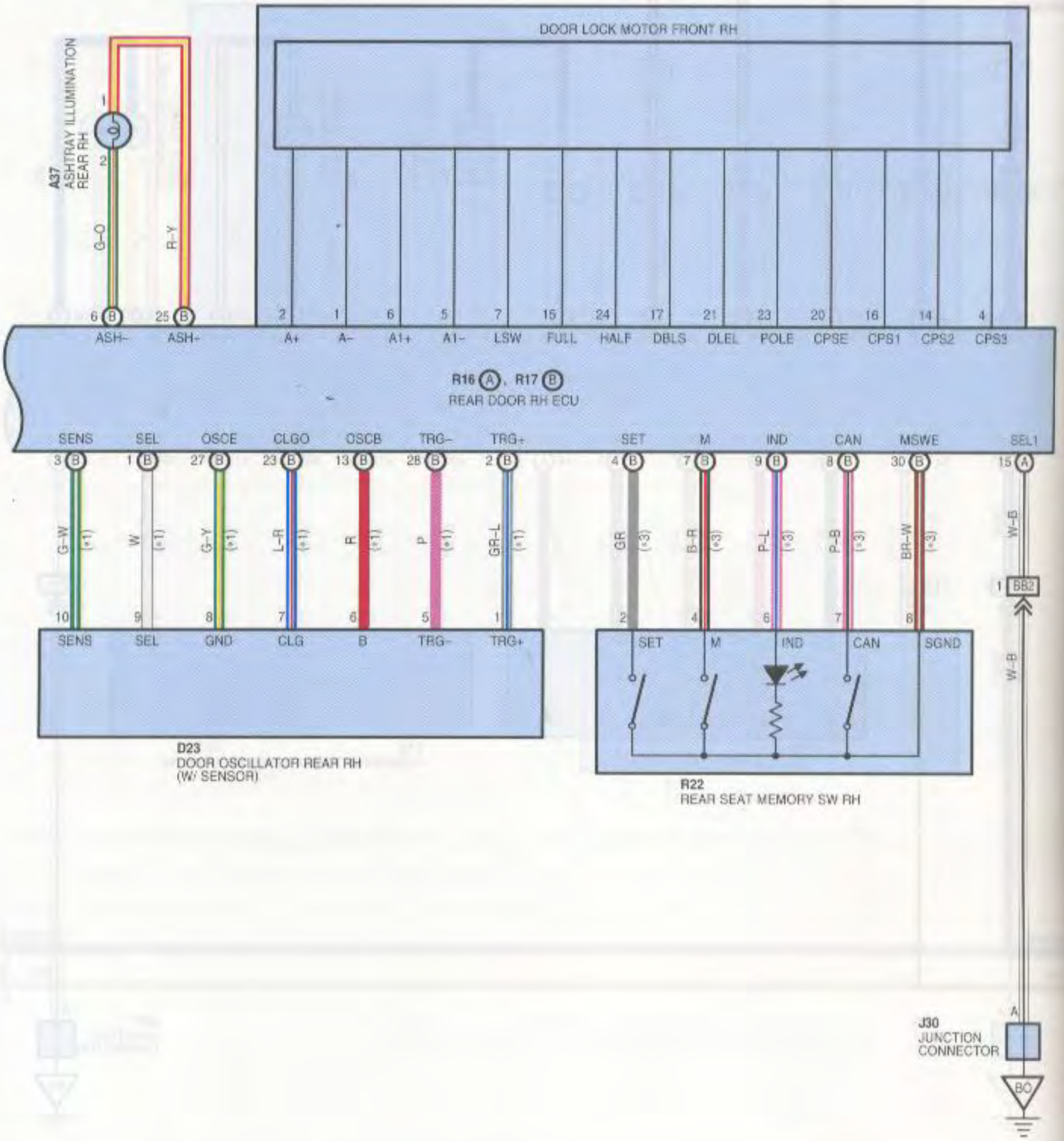
* 1 : W/ SMART KEY SYSTEM
* 3 : W/ REAR POWER SEAT

FROM POWER SOURCE SYSTEM (SEE PAGE 180)



MULTIPLEX COMMUNICATION SYSTEM (DOOR ECU) [LHD]

*1 : W/ SMART KEY SYSTEM
*3 : W/ REAR POWER SEAT



SERVICE HINTS

D25 (B) DRIVER DOOR ECU

(B) 5-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(B) 4, (B) 6-GROUND : Always approx. **12** volts
(B) 1-GROUND : Always continuity

F17 (B) FRONT PASSENGER DOOR ECU

(B) 5-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(B) 4, (B) 6-GROUND : Always approx. **12** volts
(B) 1-GROUND : Always continuity

R15 (B) REAR DOOR LH ECU

(B) 26-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(B) 1, (B) 2-GROUND : Always approx. **12** volts
(B) 6-GROUND : Always continuity

R16 (A) REAR DOOR RH ECU

(A) 26-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(A) 1, (A) 2-GROUND : Always approx. **12** volts
(A) 6, (A) 15-GROUND : Always continuity

T5 THEFT DETERRENT ECU

24-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
31-GROUND : Approx. **12** volts with ignition SW at **ON** or **ACC** position
1, 21-GROUND : Always approx. **12** volts
20-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A36	120 (LHD)	I22	121 (LHD)	P15	122 (LHD)
A37	120 (LHD)	I23	121 (LHD)	P16	122 (LHD)
D8	120 (LHD)	J11 A	117 (LHD)	P17	122 (LHD)
D9	120 (LHD)	J12 B	117 (LHD)	R6	119 (LHD)
D10	120 (LHD)	J13 A	117 (LHD)	R7	119 (LHD)
D11	120 (LHD)	J14 B	117 (LHD)	R8	122 (LHD)
D12	120 (LHD)	J15 A	117 (LHD)	R14 A	122 (LHD)
D13	120 (LHD)	J16 B	117 (LHD)	R15 B	122 (LHD)
D14	120 (LHD)	J22	121 (LHD)	R16 A	122 (LHD)
D15	120 (LHD)	J24	121 (LHD)	R17 B	122 (LHD)
D16	120 (LHD)	J27	121 (LHD)	R21	122 (LHD)
D18	120 (LHD)	J28 A	121 (LHD)	R22	122 (LHD)
D20	120 (LHD)	J29 B	121 (LHD)	R26	122 (LHD)
D21	120 (LHD)	J30	121 (LHD)	R27	125 (LHD)
D22	120 (LHD)	J31	125 (LHD)	R28	125 (LHD)
D23	120 (LHD)	K1	114 (LHD)	R29	125 (LHD)
D24 A	120 (LHD)	K4	118 (LHD)	S15	119 (LHD)
D25 B	120 (LHD)	L9	121 (LHD)	S17	119 (LHD)
D26	120 (LHD)	L10	121 (LHD)	S22	123 (LHD)
D28	124 (LHD)	M4	122 (LHD)	S23	123 (LHD)
F16 A	120 (LHD)	O6	122 (LHD)	T1	115 (LHD)
F17 B	120 (LHD)	P10	122 (LHD)	T5	119 (LHD)
G1	117 (LHD)	P11	122 (LHD)	T9	119 (LHD)
I19	121 (LHD)	P12	122 (LHD)	T16	123 (LHD)
I20	121 (LHD)	P13	122 (LHD)	U7	119 (LHD)
I21	121 (LHD)	P14	122 (LHD)		

MULTIPLEX COMMUNICATION SYSTEM (DOOR ECU) [LHD]

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
DE	87 (LHD)	Instrument Panel Wire and Driver Side J/B (Left Kick Panel)
DF		
DG		
DI	89 (LHD)	Floor No.2 Wire and Driver Side J/B (Left Kick Panel)
LA	110	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LB		
LC		
LE		
PE	94 (LHD)	Instrument Panel Wire and Passenger Side J/B (Right Kick Panel)
PF		
PG		
PI	95 (LHD)	Floor Wire and Passenger Side J/B (Right Kick Panel)
PJ		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	142 (LHD)	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC1	142 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Cowl Side Panel LH)
IC3		
IG2	144 (LHD)	Instrument Panel Wire and Floor Wire (Cowl Side Panel RH)
IH2	144 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Cowl Side Panel RH)
II1	144 (LHD)	Instrument Panel Wire and Roof Wire (Cowl Side Panel RH)
II2		
IJ1	144 (LHD)	Front Door RH Wire and Floor Wire (Right Kick Panel)
BA1	146 (LHD)	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BA2		
BB1	146 (LHD)	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BB2		
BC1	146 (LHD)	Floor No.2 Wire and Floor Wire (Rear Floor Partition Panel LH)
BE1	146 (LHD)	Floor No.2 Wire and Floor Wire (Lower Back Panel RH)
BF1	148 (LHD)	Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)
BH1	150 (LHD)	Rear Seat LH Wire and Floor No.2 Wire (Under the Rear Passenger's LH Seat)
BI1	150 (LHD)	Rear Seat RH Wire and Floor Wire (Under the Rear Passenger's RH Seat)

: GROUND POINTS

Code	See Page	Ground Points Location
IG	142 (LHD)	Left Side of Instrument Panel
IH	142 (LHD)	Right Side of Shift Lever
II		
IK	142 (LHD)	Cowl Side Panel RH
BL	146 (LHD)	Rear Floor Partition Panel LH
BM	146 (LHD)	Quarter Panel LH
BN	146 (LHD)	Rear Floor Partition Panel RH
BO	146 (LHD)	Quarter Panel RH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I6	144 (LHD)	Instrument Panel Wire	B3	146 (LHD)	Floor Wire
B1	146 (LHD)	Roof Wire			