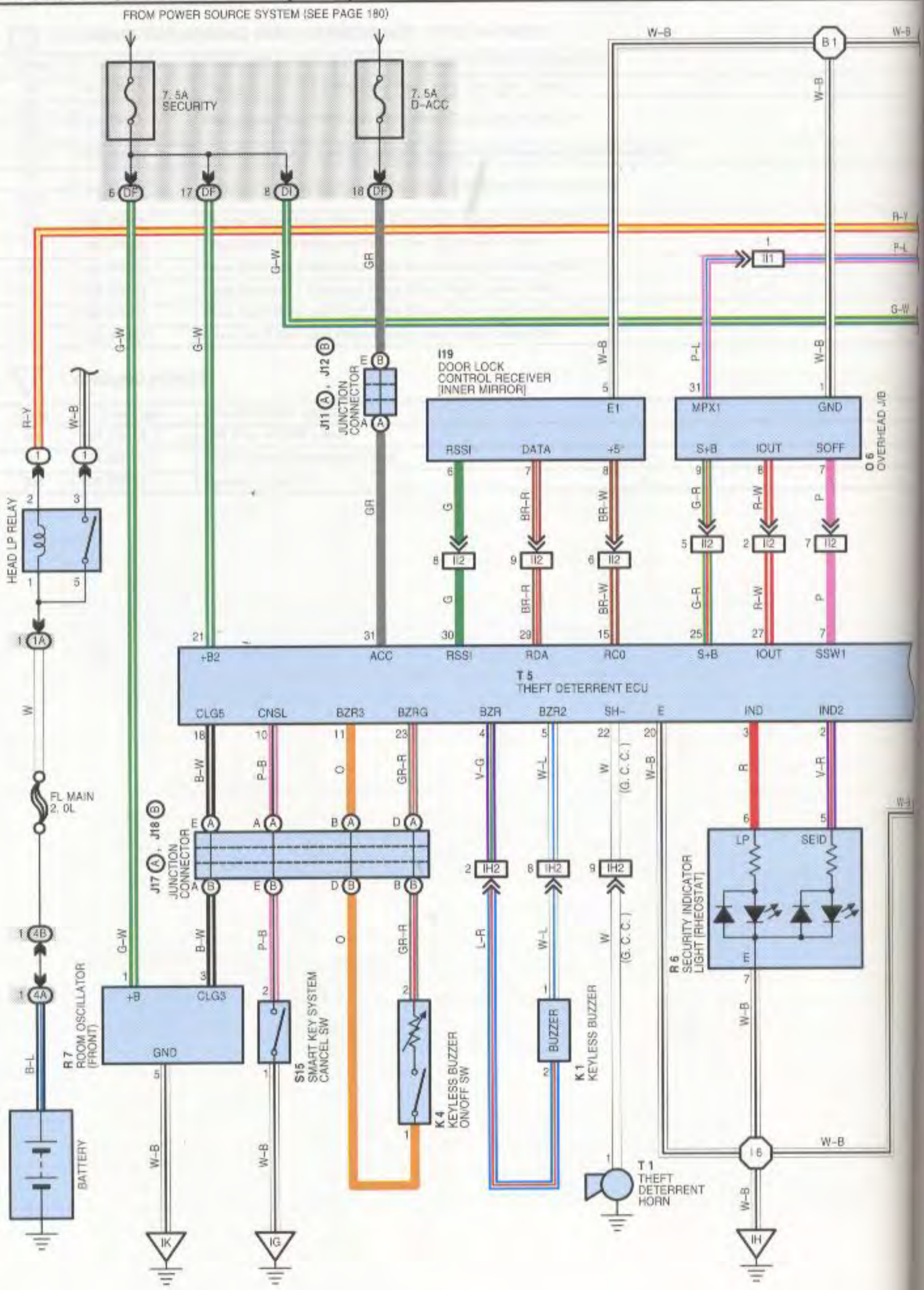
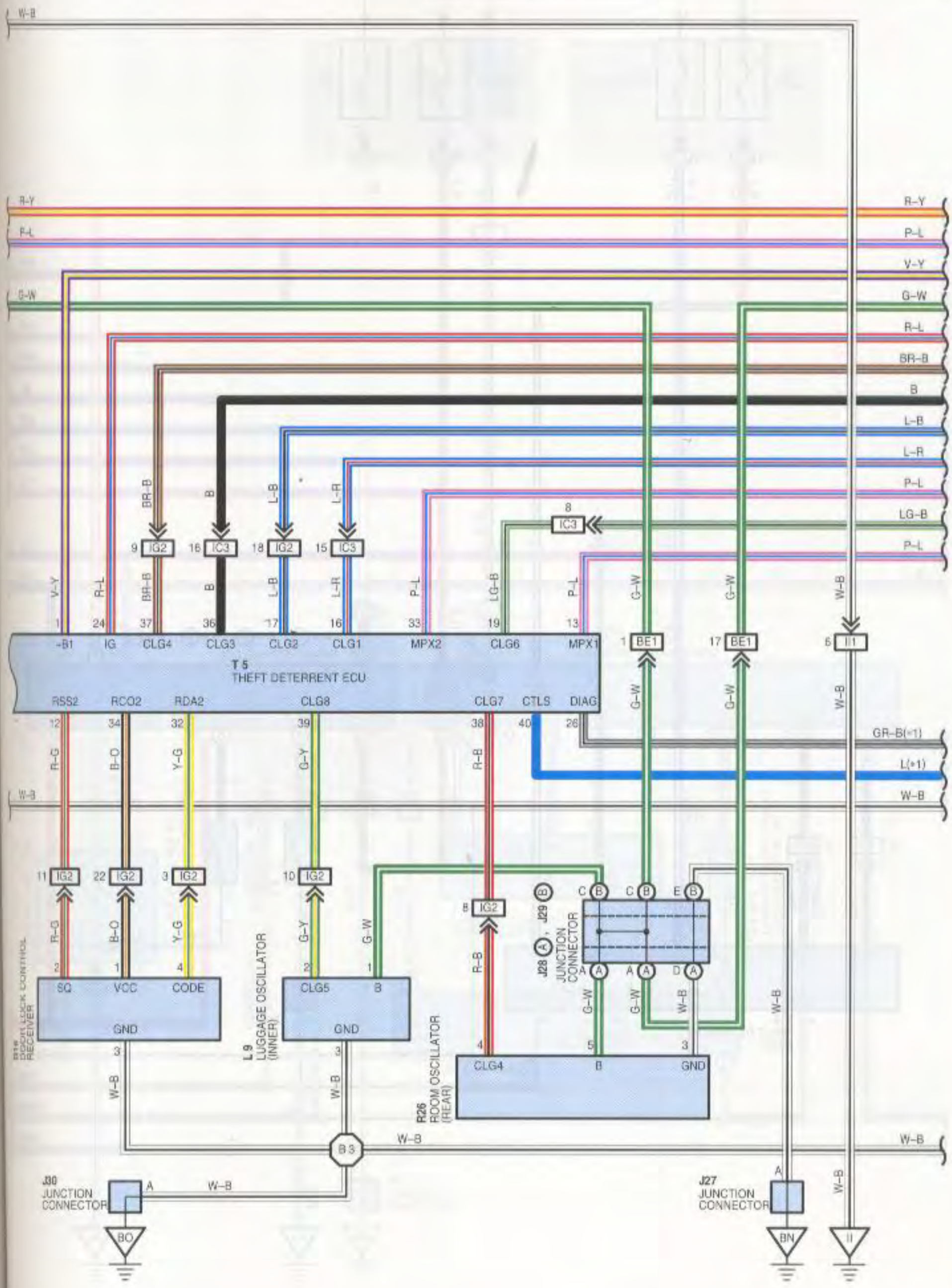
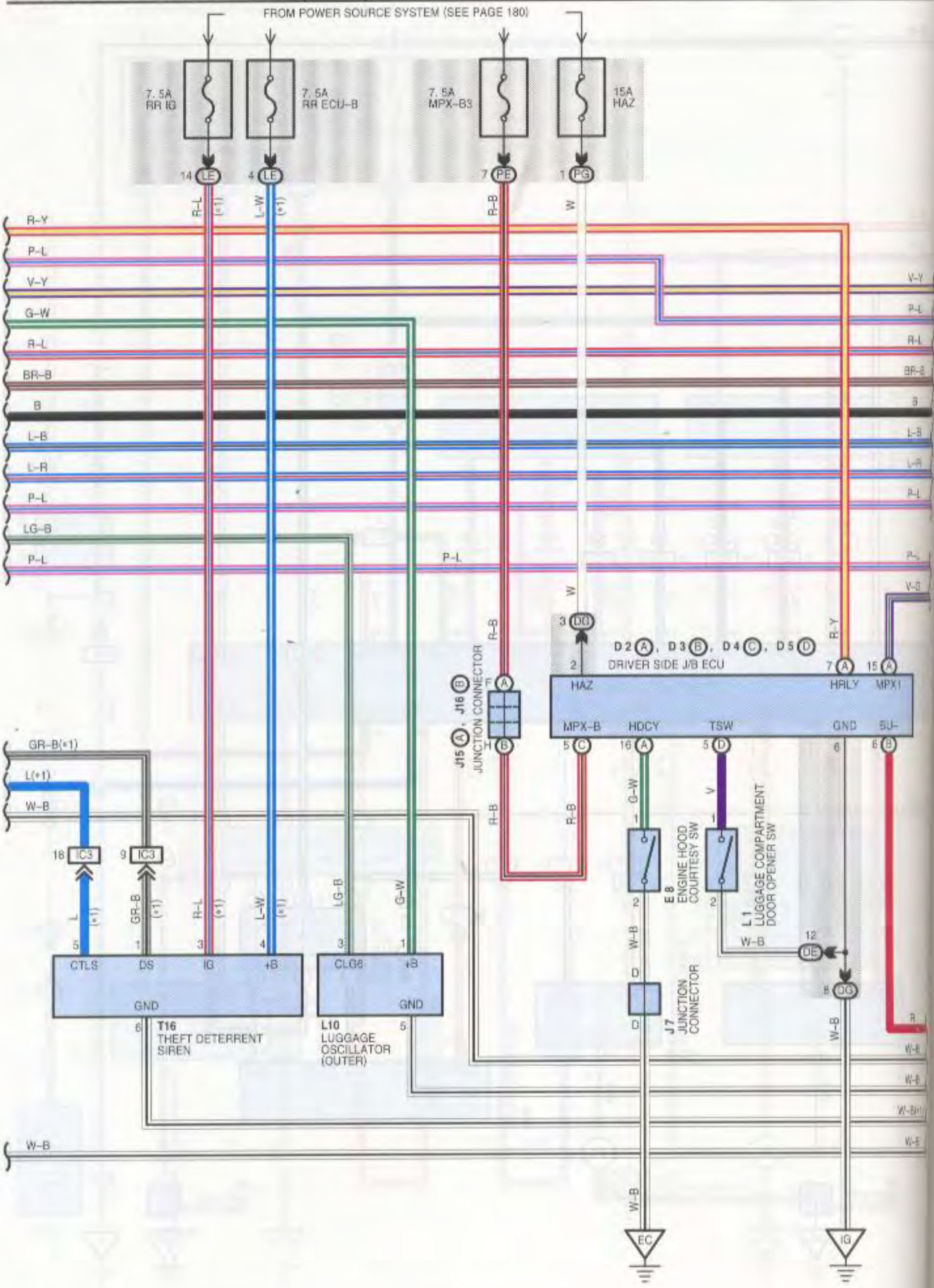
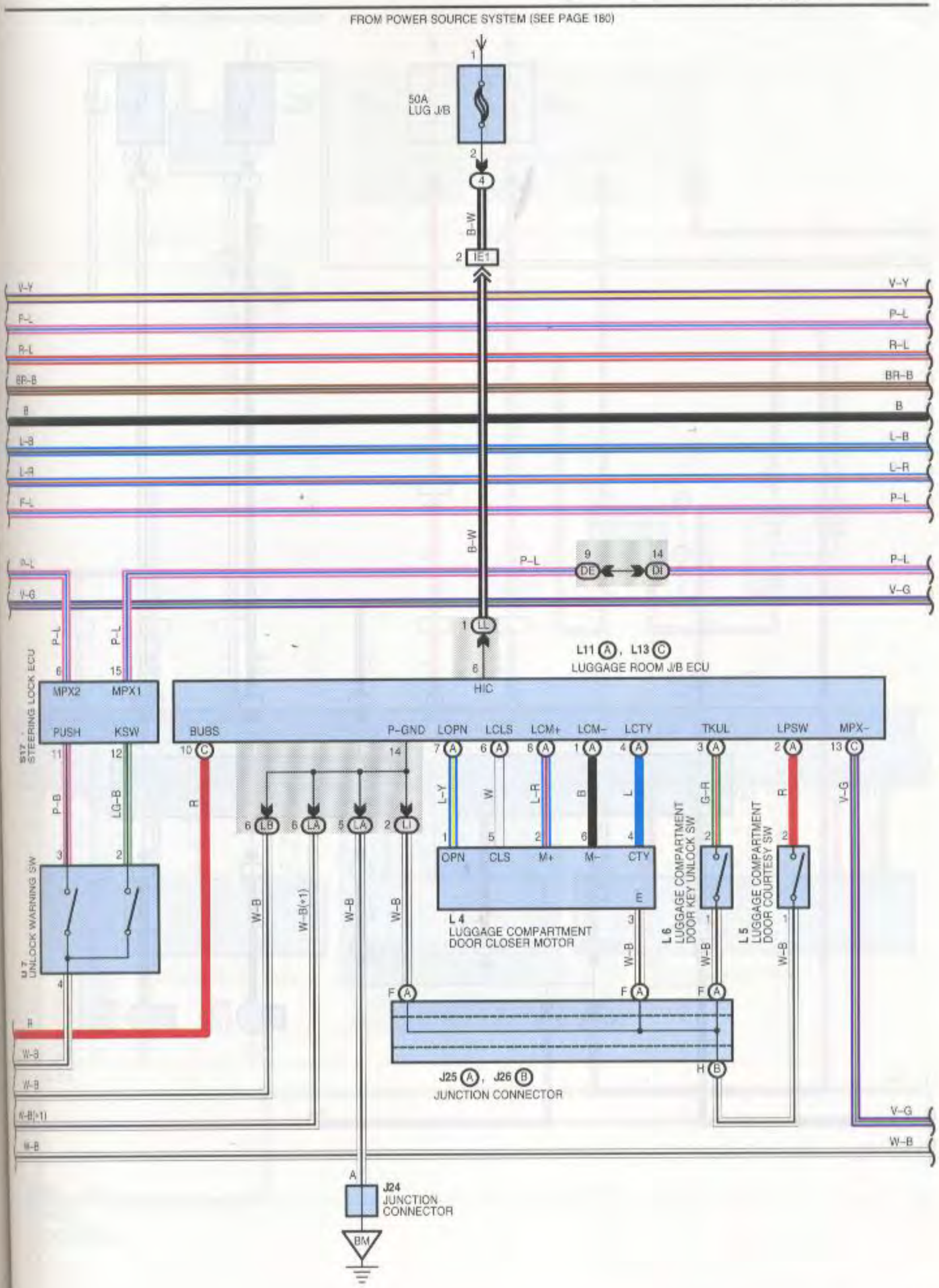
SMART KEY SYSTEM (LHD)



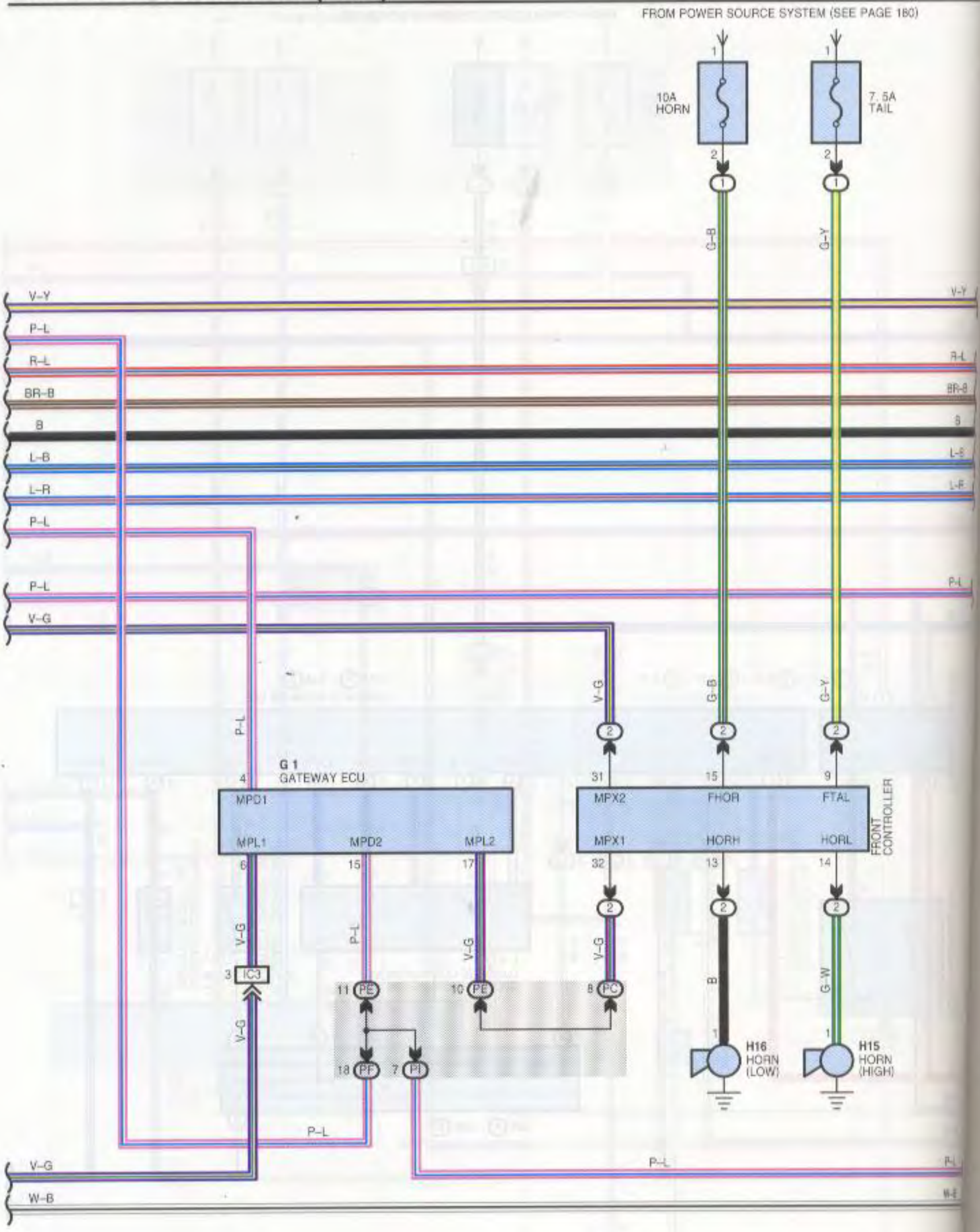

W-B
R-Y
P-L
V-Y
G-W
R-L
BR-B
B
L-B
L-R
P-L
LG-B
P-L
8 IC3
9 IG2
16 IC3
18 IG2
15 IC3
1 BE1
17 BE1
6 I1
-B1
IG
CLG4
CLG3
CLG2
CLG1
MPX2
CLG6
MPX1
T5
THEFT DETERRENT ECU
RSS2
RCO2
RDA2
CLG8
CLG7
CTLS
DIAG
12
34
32
39
38
40
26
R-G
B-O
Y-G
G-Y
R-B
GR-B(*1)
L(*1)
W-B
11 IG2
22 IG2
3 IG2
10 IG2
8 IG2
B
J29
J28
JUNCTION CONNECTOR
C B
C B
E B
A A
A A
D A
R19
DOOR LOCK CONTROL RECEIVER
SQ
VCC
CODE
GND
L9
LUGGAGE OSCILLATOR (INNER)
CLG5
B
GND
R26
ROOM OSCILLATOR (REAR)
CLG4
B
GND
B3
J30
JUNCTION CONNECTOR
J27
JUNCTION CONNECTOR
BO
BN
I1

SMART KEY SYSTEM (LHD)

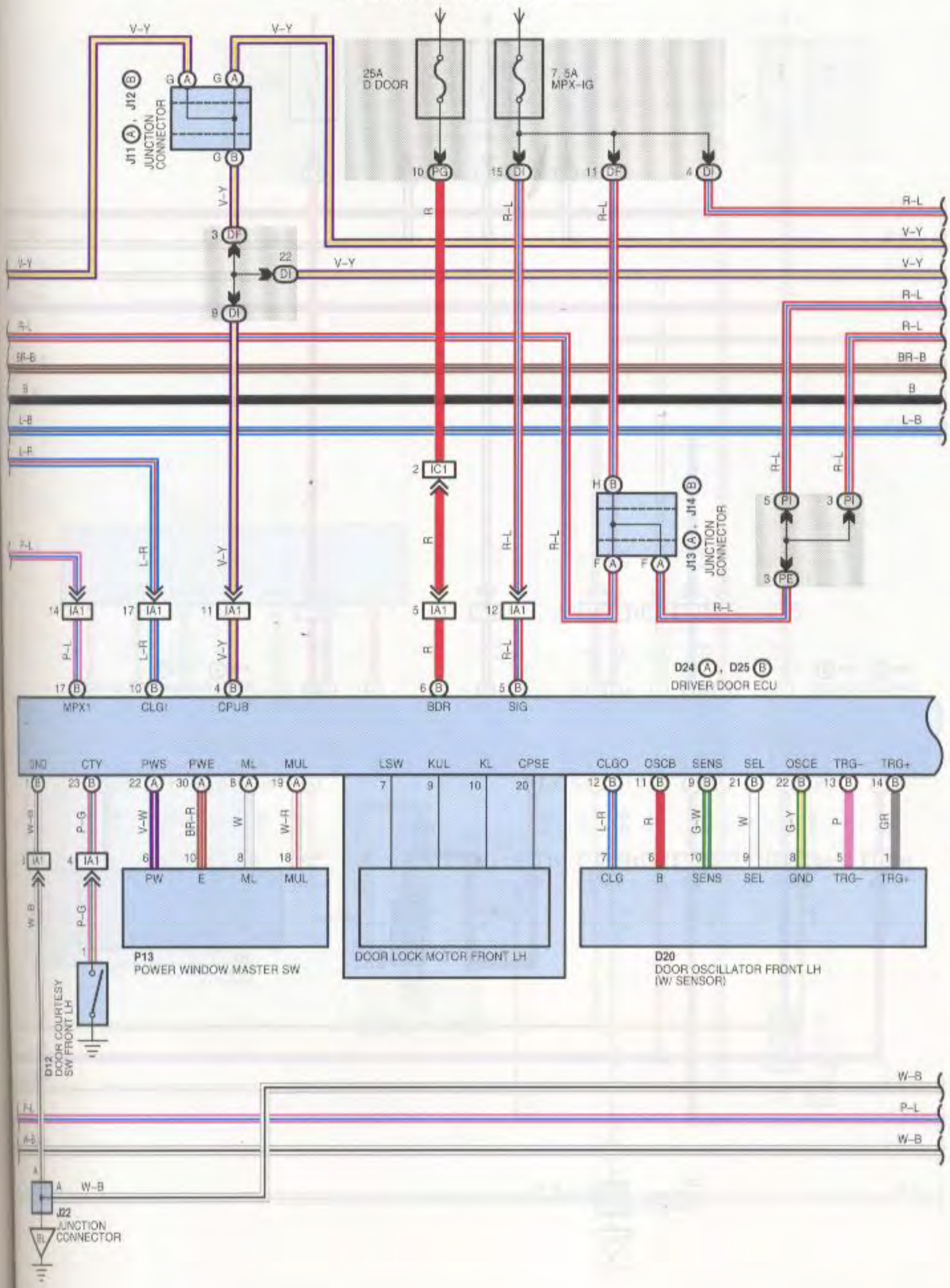



FROM POWER SOURCE SYSTEM (SEE PAGE 180)
50A
LUG J/B
B-W
1E1
V-Y
P-L
R-L
BR-B
B
L-B
L-R
P-L
V-G
9
14
DE
DI
LL
L11 A , L13 C
LUGGAGE ROOM J/B ECU
HIC
MPX2
MPX1
PUSH
KSW
BUBS
P-GND
LOPN
LCLS
LCM+
LCM-
LCTY
TKUL
LPSW
MPX-
S17
STEERING LOCK ECU
U7
UNLOCK WARNING SW
P-B
LG-B
R
W-B
W-B(*1)
L-Y
W
L-R
B
L
G-R
V-G
OPN
CLS
M+
M-
CTY
L4
LUGGAGE COMPARTMENT
DOOR CLOSER MOTOR
L6
LUGGAGE COMPARTMENT
DOOR KEY UNLOCK SW
L5
LUGGAGE COMPARTMENT
DOOR COURTESY SW
J25 A , J26 B
JUNCTION CONNECTOR
J24
JUNCTION
CONNECTOR
BM

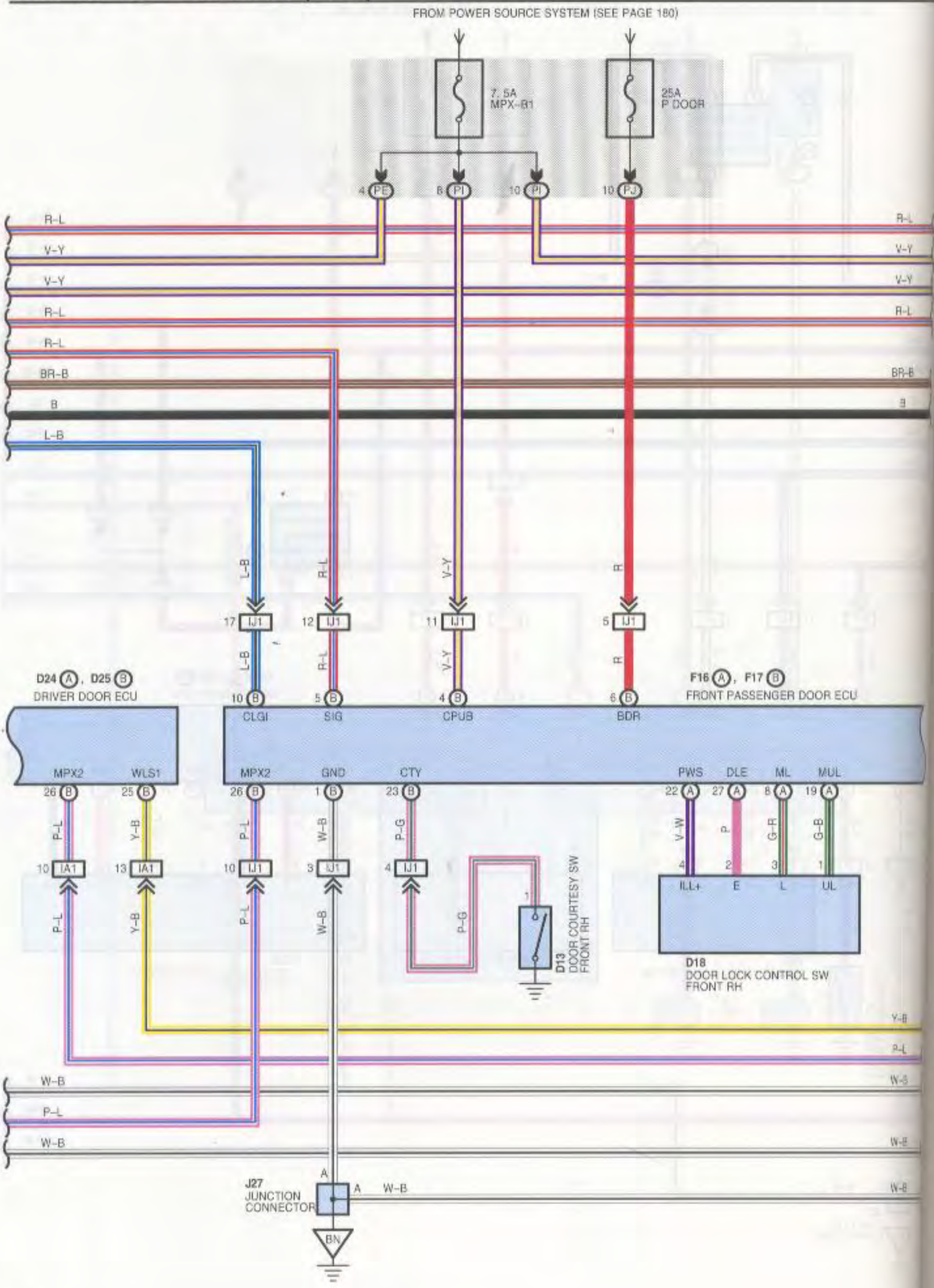
SMART KEY SYSTEM (LHD)



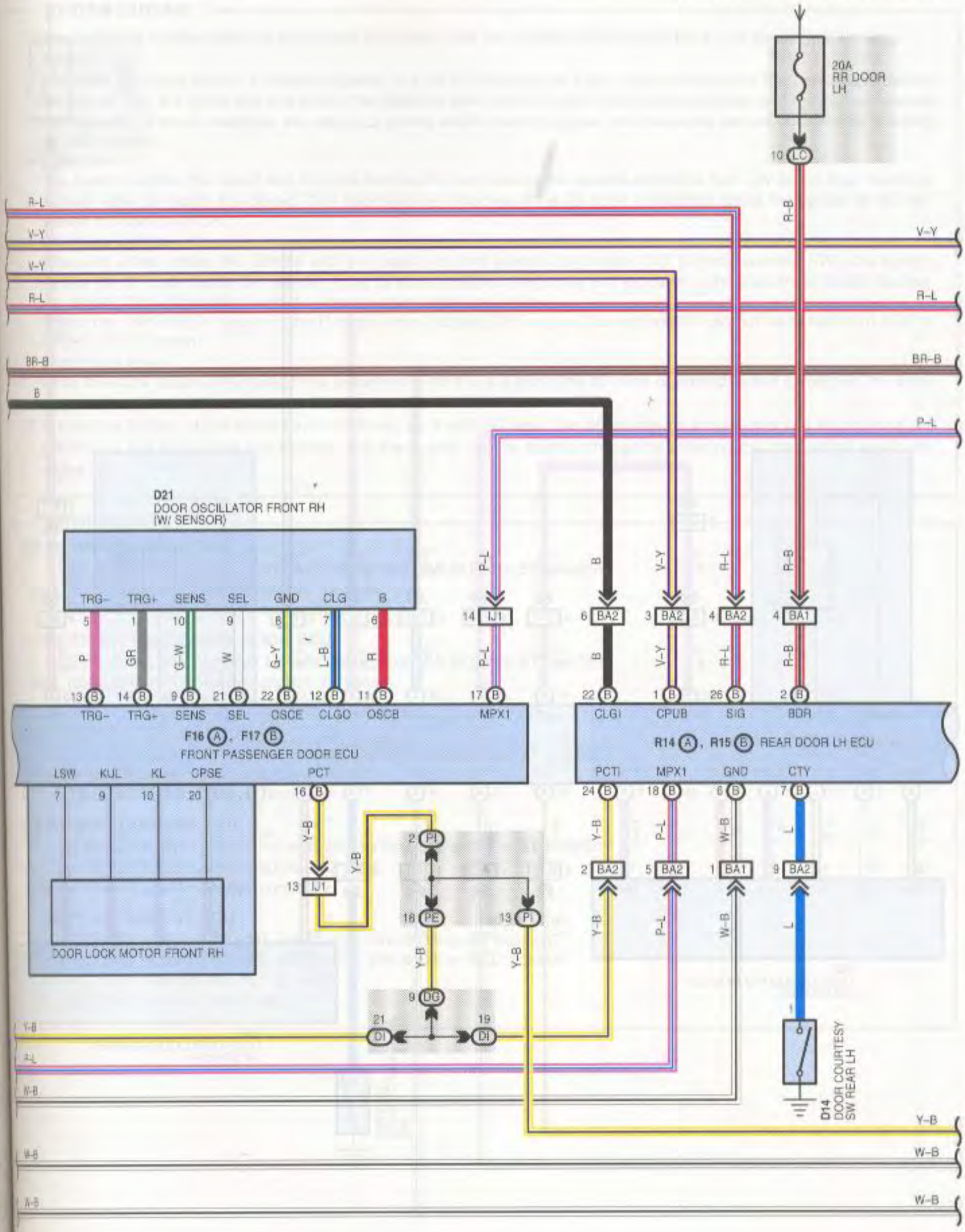
FROM POWER SOURCE SYSTEM (SEE PAGE 180)



SMART KEY SYSTEM (LHD)

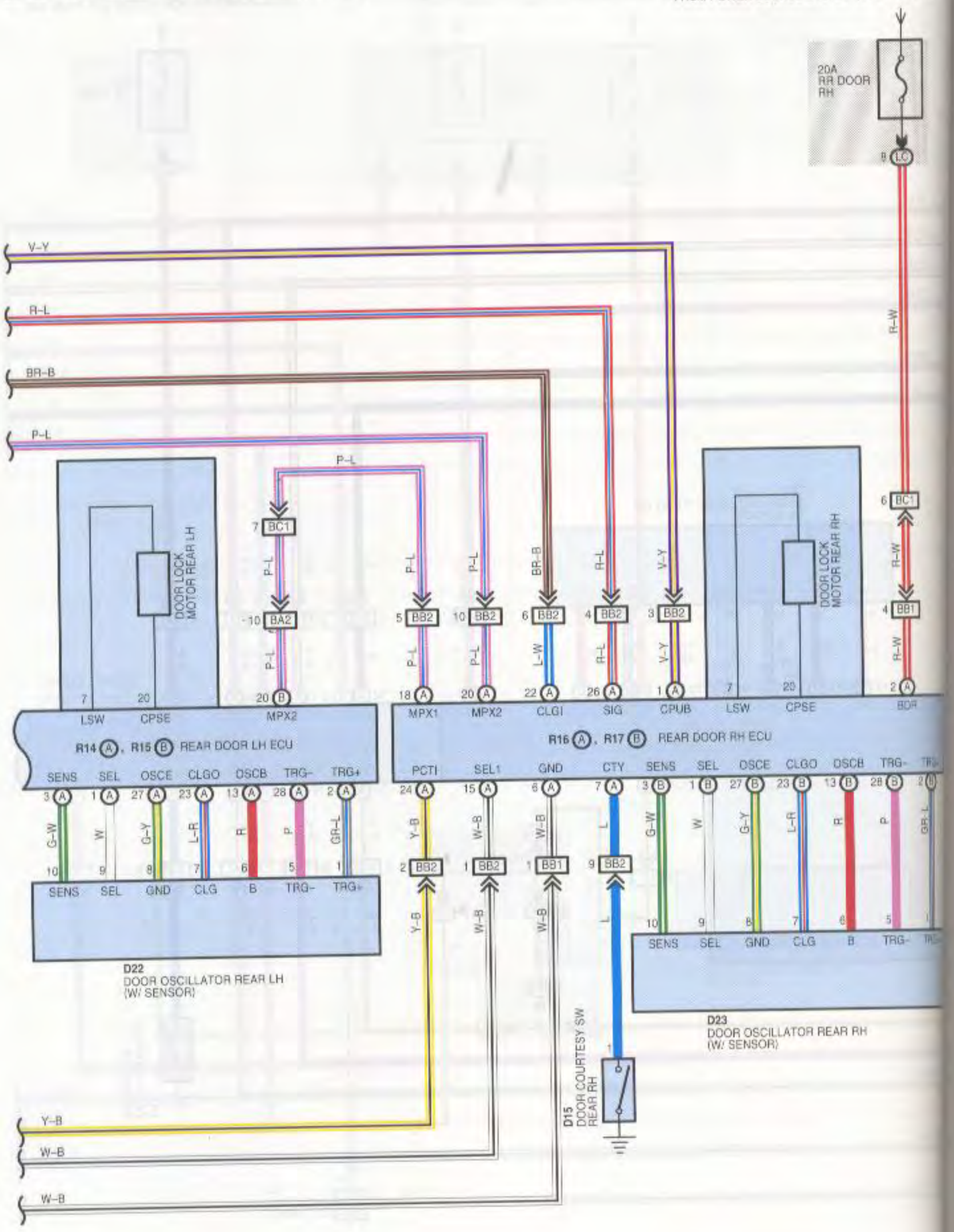


FROM POWER SOURCE SYSTEM (SEE PAGE 180)



SMART KEY SYSTEM (LHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 180)



SYSTEM OUTLINE

(1) The smart key system allows to lock/unlock the doors, start the engine, and open the trunk, just by carrying the key.

- Smart unlock
  When the doors are locked, a detective barrier of 1.0m is made around each door of the vehicle. If a person approaches the vehicle with the smart key and enters the detective area, the ID code of the door transmitter and the key are verified automatically. If the ID matches, the door lock enters unlock standby mode, and the doors can be unlocked by touching the door handle.
- Smart lock
  The system verifies the smart key ID code both inside and outside the vehicle when the lock SW of the door handle is pushed while all doors are closed. The doors will be unlocked if the ID code verification inside the vehicle is NG and outside the vehicle is OK.
- Smart key ignition
  When the driver enters the vehicle with the smart key and pushes the engine SW (Unlock warning SW), the system verifies the ID code inside the vehicle. If the ID code matches, the smart key indicator in the instrument cluster flashes, the steering lock is released, and the engine enters stand-by mode.
  Unless the shift lever is placed in the P range when stopping the engine, the engine SW can not be turned from ACC to PUSH/LOCK position.
- Smart trunk open
  When the trunk button of the smart key is pushed in front of the trunk, the ID code is verified, and if it matches, the trunk is opened automatically.

(2) In case the battery of the smart key runs down, as traditional keys, the doors can be locked/unlocked by inserting the mechanical key in the door key cylinder, and the engine can be started/stopped by inserting the mechanical key in the engine SW.

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

SMART KEY SYSTEM (LHD)

○ : PARTS LOCATION

Code		See Page
D2	A	117 (LHD)
D3	B	117 (LHD)
D4	C	117 (LHD)
D5	D	117 (LHD)
D12		120 (LHD)
D13		120 (LHD)
D14		120 (LHD)
D15		120 (LHD)
D16		120 (LHD)
D18		120 (LHD)
D20		120 (LHD)
D21		120 (LHD)
D22		120 (LHD)
D23		120 (LHD)
D24	A	120 (LHD)
D25	B	120 (LHD)
E8		112 (LHD)
F16	A	120 (LHD)
F17	B	120 (LHD)
G1		117 (LHD)
H15		113 (LHD)
H16		113 (LHD)
I19		121 (LHD)
J7		114 (LHD)
J11	A	117 (LHD)
J12	B	117 (LHD)
J13	A	117 (LHD)
J14	B	117 (LHD)
J15	A	117 (LHD)
J16	B	117 (LHD)
J17	A	117 (LHD)
J18	B	117 (LHD)
J22		121 (LHD)
J24		121 (LHD)
J25	A	121 (LHD)
J26	B	121 (LHD)
J27		121 (LHD)
J28	A	121 (LHD)
J29	B	121 (LHD)
J30		121 (LHD)
K1		114 (LHD)
K4		118 (LHD)
L1		118 (LHD)
L4		121 (LHD)
L5		121 (LHD)
L6		121 (LHD)
L9		121 (LHD)
L10		121 (LHD)
L11	A	121 (LHD)
L13	C	121 (LHD)
O6		122 (LHD)
P13		122 (LHD)
R6		119 (LHD)
R7		119 (LHD)
R14	A	122 (LHD)
R15	B	122 (LHD)
R16	A	122 (LHD)
R17	B	122 (LHD)
R26		122 (LHD)
S15		119 (LHD)
S17		119 (LHD)
T1		115 (LHD)
T5		119 (LHD)
T16		123 (LHD)
U7		119 (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)

▢ : 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		
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		
LI	110	Luggage Room Wire and Luggage Room J/B (Luggage Room Left)
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)
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 IC3	142 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Cowl Side Panel LH)
IE1	142 (LHD)	Engine Room Main Wire and Floor No.2 Wire (Left Kick Panel)
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 II2	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)
BA1 BA2	146 (LHD)	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BB1 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)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
EC	140 (LHD)	Radiator Side Support LH
IG	142 (LHD)	Left Side of Instrument Panel
IH II	142 (LHD)	Right Side of Shift Lever
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			