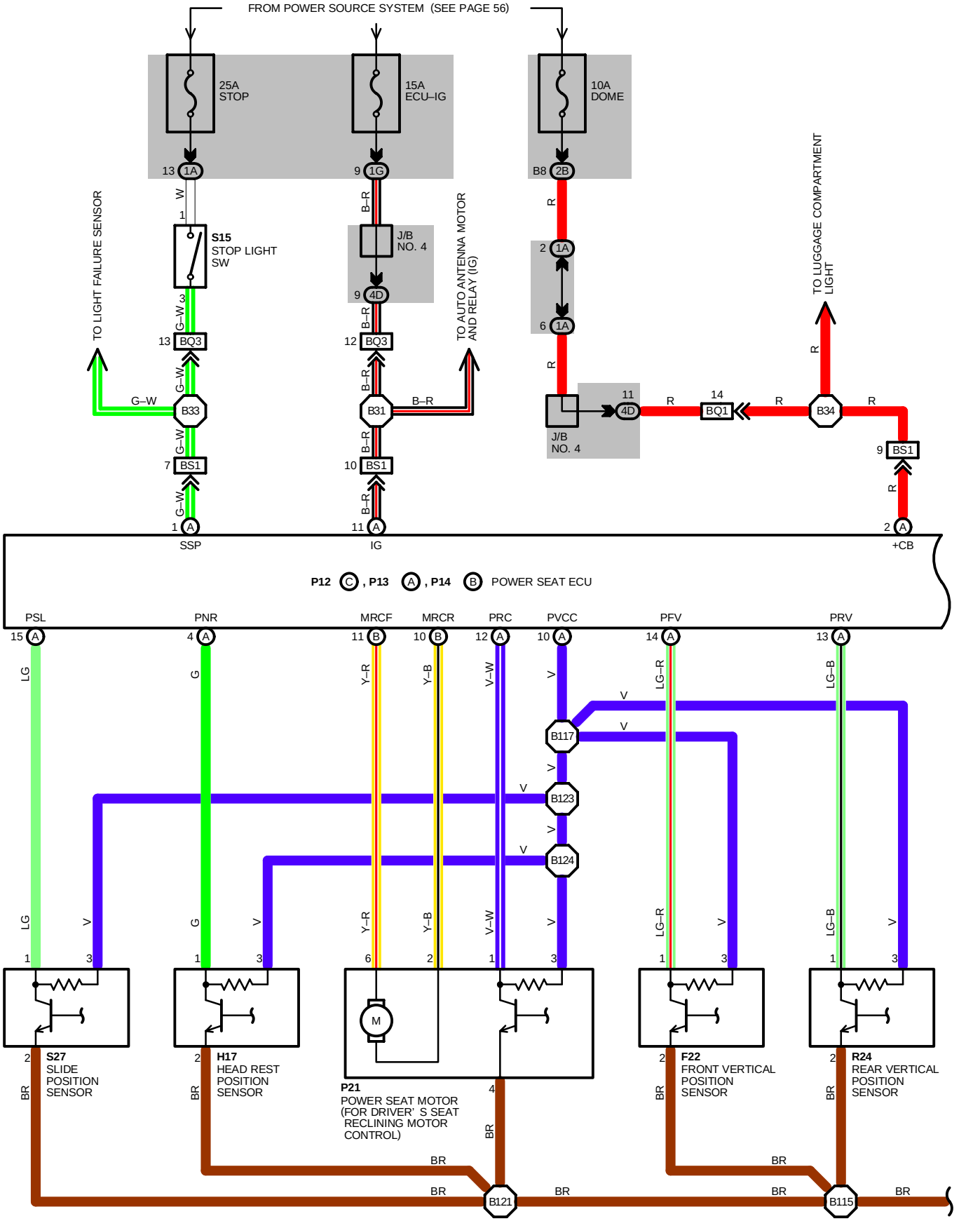
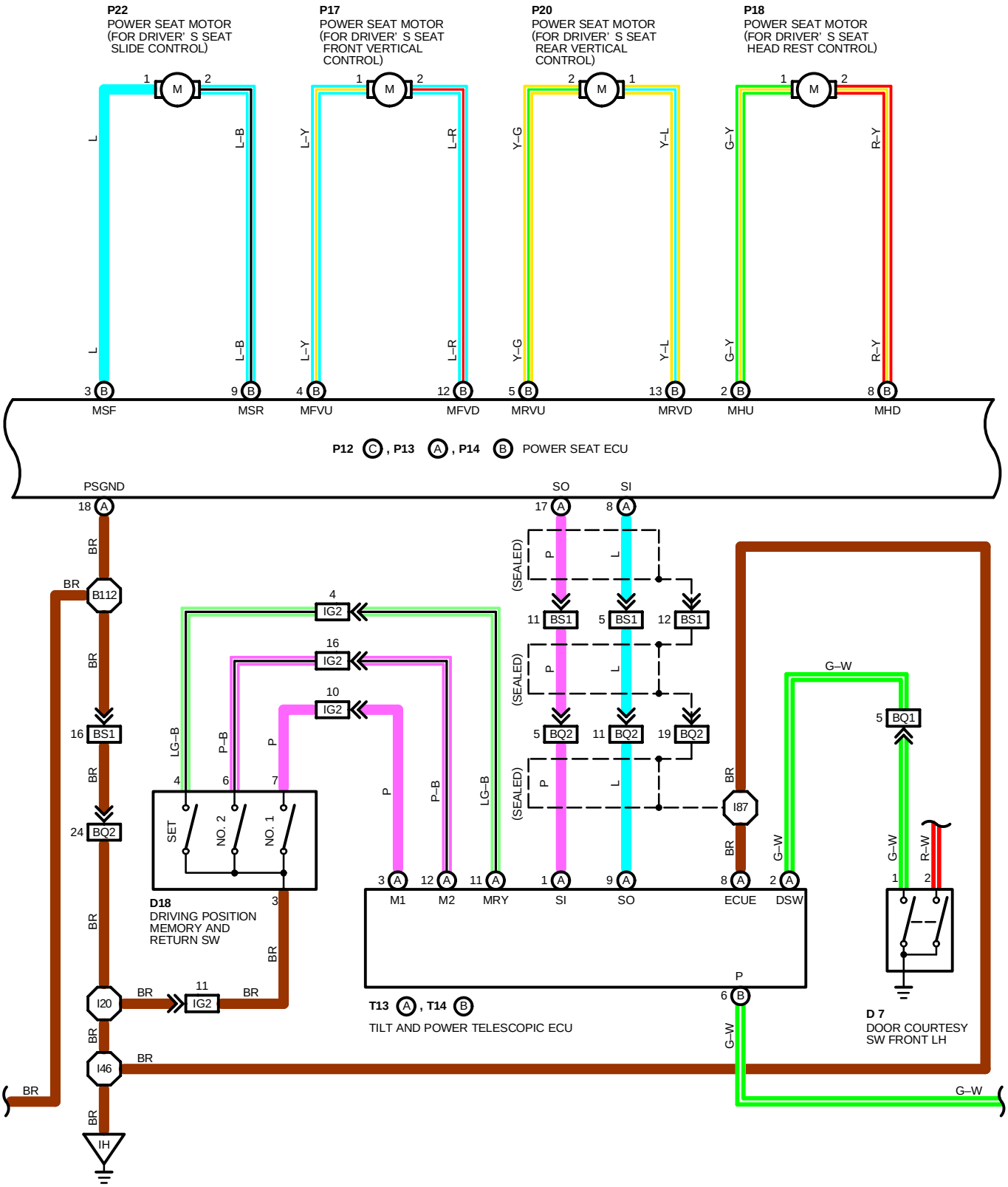
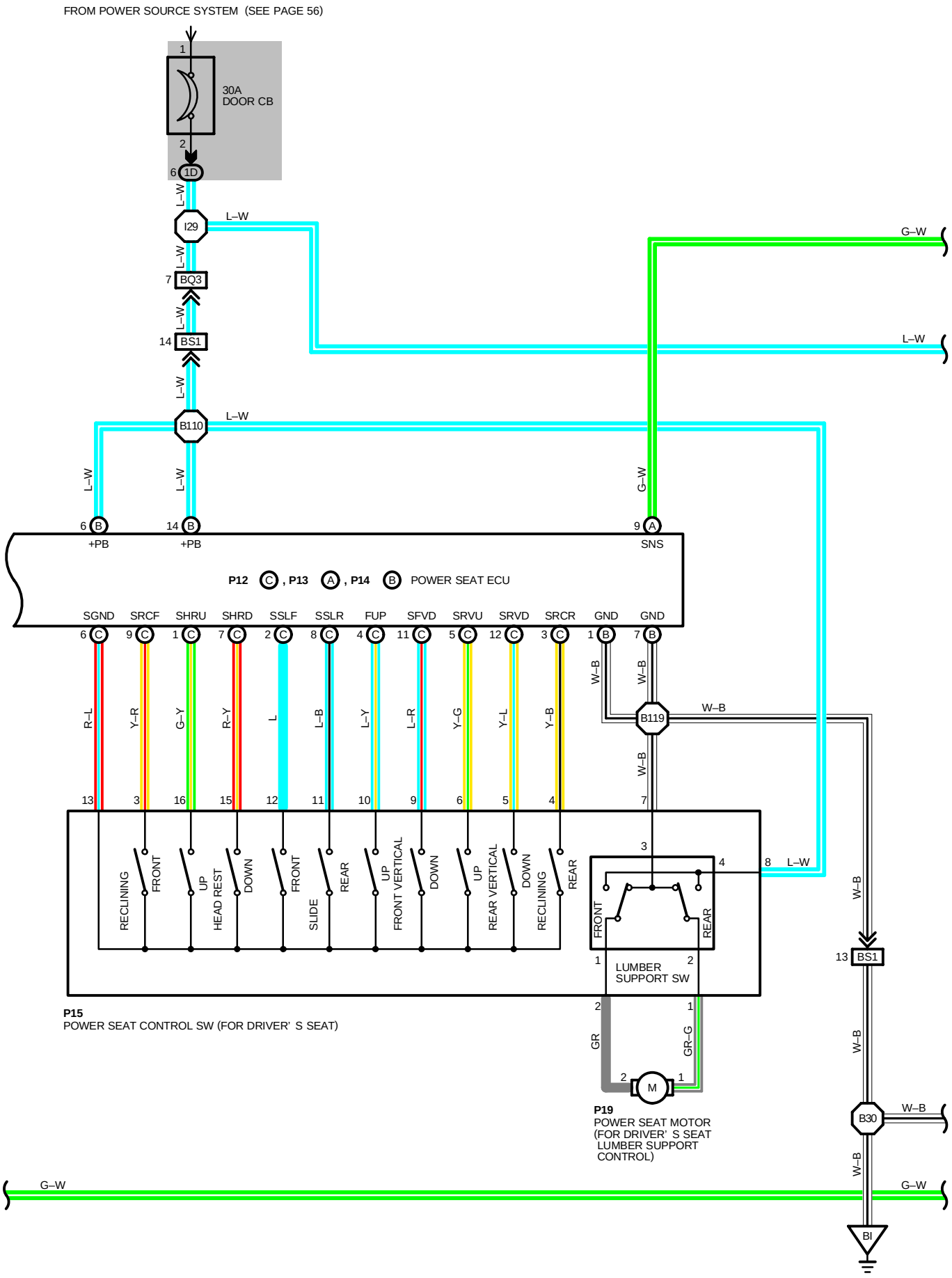
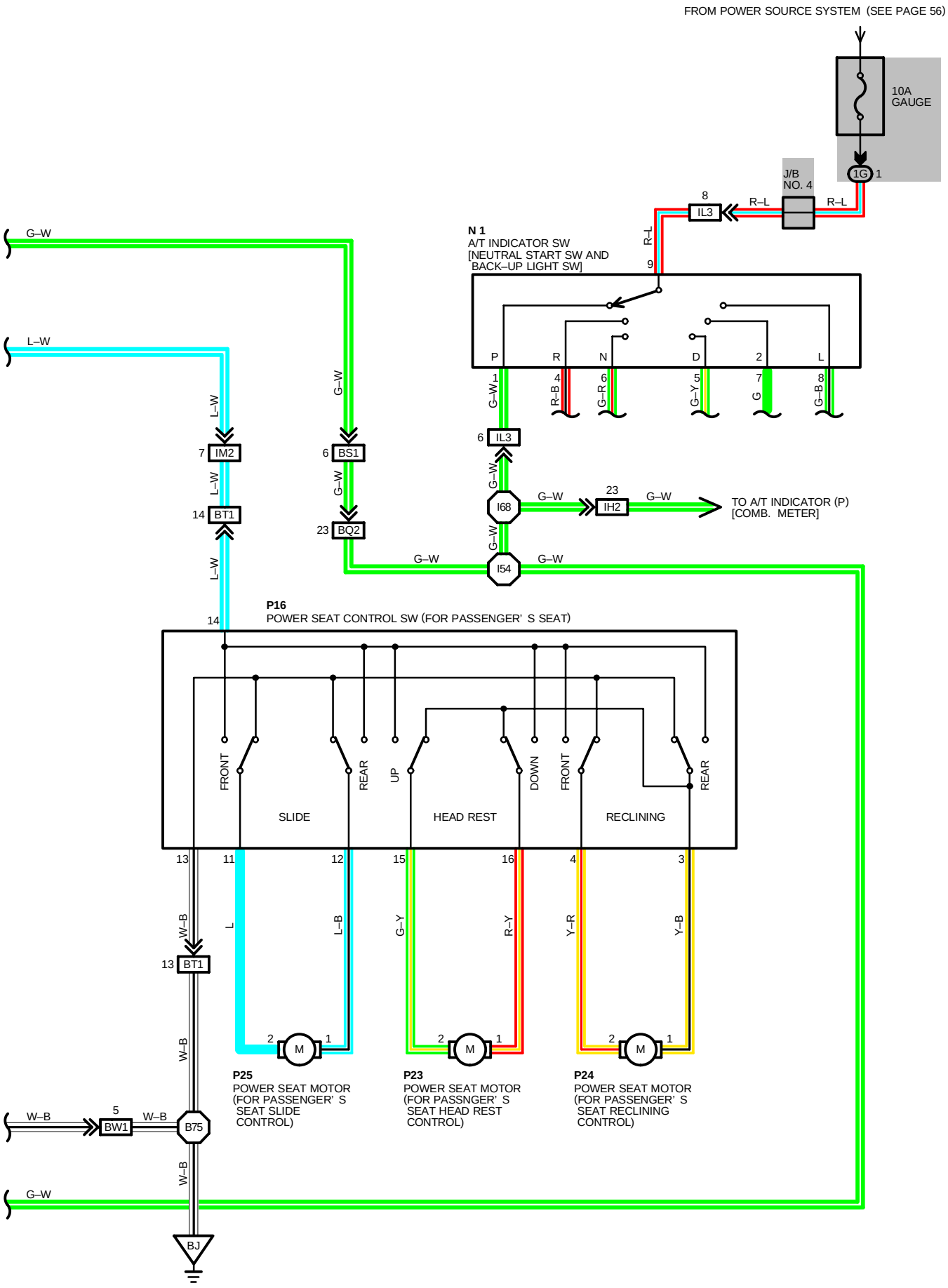
POWER SEAT (w/ MEMORY)




P22
POWER SEAT MOTOR
(FOR DRIVER' S SEAT
SLIDE CONTROL)
P17
POWER SEAT MOTOR
(FOR DRIVER' S SEAT
FRONT VERTICAL
CONTROL)
P20
POWER SEAT MOTOR
(FOR DRIVER' S SEAT
REAR VERTICAL
CONTROL)
P18
POWER SEAT MOTOR
(FOR DRIVER' S SEAT
HEAD REST CONTROL)
MSF
MSR
MFVU
MFVD
MRVU
MRVD
MHU
MHD
P12 C , P13 A , P14 B POWER SEAT ECU
PSGND
SO
SI
B112
BS1
BQ2
IG2
I20
I46
IH
I87
BQ1
SET
NO. 2
NO. 1
D18
DRIVING POSITION
MEMORY AND
RETURN SW
M1
M2
MRY
SI
SO
ECUE
DSW
T13 A , T14 B
TILT AND POWER TELESCOPIC ECU
D 7
DOOR COURTESY
SW FRONT LH
(SEALED)

POWER SEAT (w/ MEMORY)




FROM POWER SOURCE SYSTEM (SEE PAGE 56)
10A GAUGE
J/B NO. 4
1G
1
8
IL3
R–L
R–L
R–L
9
N 1
A/T INDICATOR SW
[NEUTRAL START SW AND BACK–UP LIGHT SW]
P
R
N
D
2
L
1 G–W
4 R–B
6 G–R
5 G–Y
7 G
8 G–B
6 IL3
G–W
I68
G–W
23 IH2
G–W
TO A/T INDICATOR (P) [COMB. METER]
G–W
I54
G–W
G–W
L–W
7 IM2
L–W
14 BT1
L–W
14
G–W
6 BS1
G–W
23 BQ2
G–W
P16
POWER SEAT CONTROL SW (FOR PASSENGER' S SEAT)
FRONT
REAR
UP
DOWN
FRONT
REAR
SLIDE
HEAD REST
RECLINING
13
11
12
15
16
4
3
W–B
13 BT1
W–B
L
L–B
G–Y
R–Y
Y–R
Y–B
2
M
1
P25
POWER SEAT MOTOR (FOR PASSENGER' S SEAT SLIDE CONTROL)
P23
POWER SEAT MOTOR (FOR PASSNGER' S SEAT HEAD REST CONTROL)
P24
POWER SEAT MOTOR (FOR PASSENGER' S SEAT RECLINING CONTROL)
W–B
5 BW1
W–B
B75
W–B
G–W
BJ

POWER SEAT (w/ MEMORY)

SYSTEM OUTLINE

CURRENT IS ALWAYS APPLIED FROM THE DOME FUSE TO **TERMINAL +CB** OF POWER SEAT ECU, FROM DOOR CB TO **TERMINAL +PB** OF POWER SEAT ECU AND FROM STOP FUSE TO **TERMINAL 1** OF STOP LIGHT SW.

WHEN THE IGNITION SW IS TURNED ON, CURRENT FLOWS FROM ECU–IG FUSE TO **TERMINAL IG** OF POWER SEAT ECU AND FROM THE GAUGE FUSE TO **TERMINAL 9** OF A/T INDICATOR SW.

POWER SEAT OPERATION (FOR DRIVER'S SEAT)

CURRENT IS ALWAYS APPLIED TO **TERMINAL +CB** AND **TERMINAL +PB** OF POWER SEAT ECU SO THAT THE POWER SEAT ECU IS ALWAYS READY TO OPERATE.

WHEN THE POWER SEAT CONTROL SW IS PUSHED TO THE "**FRONT SLIDE** POSITION" SIDE, A SIGNAL IS INPUT INTO **TERMINAL SSLF** OF POWER SEAT ECU, THE ECU OPERATES AND THE CURRENT TO **TERMINAL +PB** OF POWER SEAT ECU FLOWS FROM **TERMINAL MSF** OF POWER SEAT ECU → **TERMINAL 1** OF POWER SEAT MOTOR (FOR DRIVER'S SEAT SLIDE CONTROL) → MOTOR → **TERMINAL 2** → **TERMINAL MSR** OF POWER SEAT ECU → **TERMINAL GND** → **GROUND**, ROTATING THE POWER SEAT MOTOR SO THAT THE SEAT SLIDES FORWARD WHILE THE POWER SEAT CONTROL SW IS BEING PRESSED.

TO SLIDE THE DRIVER'S SEAT TO THE REAR, PUSHING THE POWER CONTROL SW TO THE "**REAR SLIDE** POSITION" SIDE, INPUTS A SIGNAL TO **TERMINAL SSLR** OF POWER SEAT ECU. THIS CAUSES THE CURRENT FLOWING FROM THE ECU TO THE MOTOR TO FLOW FROM **TERMINAL MSR** OF POWER SEAT ECU → **TERMINAL 2** OF POWER SEAT MOTOR (FOR DRIVER'S SEAT SLIDE CONTROL) → MOTOR → **TERMINAL 1** → **TERMINAL MSF** OF POWER SEAT ECU, FLOWING THE REVERSE TO FRONT SLIDE OPERATION AND CAUSING THE MOTOR TO ROTATE IN REVERSE, SO THAT THE DRIVER'S SEAT MOVES TO THE REAR.

THE MOVEMENT TO OTHER POSITIONS OCCURS SIMILARLY, SO ONLY THE FLOW OF CURRENT TO EACH MOTOR IS SHOWN:

FRONT VERTICAL CONTROL "UP" OPERATION

TERMINAL +PB OF POWER SEAT ECU → **TERMINAL MFVU** → **TERMINAL 1** OF POWER SEAT MOTOR → MOTOR → **TERMINAL 2** → **TERMINAL MFVD** OF ECU → **TERMINAL GND** → **GROUND**.

FRONT VERTICAL CONTROL "DOWN" OPERATION

TERMINAL +PB OF POWER SEAT ECU → **TERMINAL MFVD** → **TERMINAL 2** OF POWER SEAT MOTOR → MOTOR → **TERMINAL 1** → **TERMINAL MFVU** OF ECU → **TERMINAL GND** → **GROUND**.

REAR VERTICAL CONTROL "UP" OPERATION

TERMINAL +PB OF POWER SEAT ECU → **TERMINAL MRVU** → **TERMINAL 2** OF POWER SEAT MOTOR → MOTOR → **TERMINAL 1** → **TERMINAL MRVD** OF ECU → **TERMINAL GND** → **GROUND**.

REAR VERTICAL CONTROL "DOWN" OPERATION

TERMINAL +PB OF POWER SEAT ECU → **TERMINAL MRVD** → **TERMINAL 1** OF POWER SEAT MOTOR → MOTOR → **TERMINAL 2** → **TERMINAL MRVU** OF ECU → **TERMINAL GND** → **GROUND**.

HEAD REST CONTROL "UP" OPERATION

TERMINAL +PB OF POWER SEAT ECU → **TERMINAL MHU** → **TERMINAL 1** OF POWER SEAT MOTOR → MOTOR → **TERMINAL 2** → **TERMINAL MHD** OF ECU → **TERMINAL GND** → **GROUND**.

HEAD REST CONTROL "DOWN" OPERATION

TERMINAL +PB POWER SEAT ECU → **TERMINAL MHD** → **TERMINAL 2** OF POWER SEAT MOTOR → MOTOR → **TERMINAL 1** → **TERMINAL MHU** OF ECU → **TERMINAL GND** → **GROUND**.

LUMBAR SUPPORT CONTROL "FRONT" OPERATION

TERMINAL 8 OF POWER SEAT CONTROL SW → **TERMINAL 4** OF LUMBAR SUPPORT SW → **TERMINAL 1** → **TERMINAL 2** OF POWER SEAT CONTROL SW → **TERMINAL 2** OF POWER SEAT MOTOR → MOTOR → **TERMINAL 1** → **TERMINAL 1** OF POWER CONTROL SEAT SW → **TERMINAL 2** OF LUMBAR SUPPORT SW → **TERMINAL 3** → **TERMINAL 7** OF POWER SEAT CONTROL SW → **GROUND**.

LAMBER SUPPORT CONTROL "REAR" OPERATION

TERMINAL 8 OF POWER SEAT CONTROL SW → **TERMINAL 4** OF LAMBER SUPPORT SW → **TERMINAL 2** → **TERMINAL 1** OF POWER SEAT CONTROL SW → **TERMINAL 1** OF POWER SEAT MOTOR → MOTOR → **TERMINAL 2** → **TERMINAL 2** OF POWER CONTROL SEAT SW → **TERMINAL 1** OF LUMBAR SUPPORT SW → **TERMINAL 3** → **TERMINAL 7** OF POWER SEAT CONTROL SW → **GROUND**.

THE NUMBER OF TURNS OF EACH MOTOR (AMOUNT OF MOVEMENT OF EACH PART OF THE SEAT) IS DETECTED BY THE POSITION SENSORS AND INPUT TO THE ECU, MAKING IT POSSIBLE TO PERFORM MEMORY AND RETURN FUNCTIONS FOR THE SEAT POSITION USING THE DRIVING POSITION MEMORY AND RETURN SWITCH.

SERVICE HINTS

D 7 DOOR COURTESY SW FRONT LH

1–GROUND : CLOSED WITH FRONT LH DOOR OPEN

N 1 A/T INDICATOR SW [NEUTRAL START SW]

9–1 : CLOSED WITH SHIFT LEVER AT ”P” RANGE

P12 (C), P13 (A), P14 (B) POWER SEAT ECU

(A) 1–GROUND : APPROX. **12** VOLTS WITH STOP LIGHT SW ON
(A) 2–GROUND : ALWAYS APPROX. **12** VOLTS
(A) 11–GROUND : APPROX. **12** VOLTS WITH IGNITION SW ON
(A) 9–GROUND : APPROX. **12** VOLTS WITH IGNITION SW ON AND SHIFT LEVER AT ”P” RANGE
(B) 3–GROUND : APPROX. **12** VOLTS WITH DRIVER’S SEAT AT FRONT SLIDE OPERATION
(B) 9–GROUND : APPROX. **12** VOLTS WITH DRIVER’S SEAT AT REAR SLIDE OPERATION
(B) 4–GROUND : APPROX. **12** VOLTS WITH DRIVER’S SEAT AT FRONT VERTICAL UP OPERATION
(B) 12–GROUND : APPROX. **12** VOLTS WITH DRIVER’S SEAT AT FRONT VERTICAL DOWN OPERATION
(B) 5–GROUND : APPROX. **12** VOLTS WITH DRIVER’S SEAT AT REAR VERTICAL UP OPERATION
(B) 13–GROUND : APPROX. **12** VOLTS WITH DRIVER’S SEAT AT REAR VERTICAL DOWN OPERATION
(B) 2–GROUND : APPROX. **12** VOLTS WITH DRIVER’S SEAT AT HEAD REST UP OPERATION
(B) 8–GROUND : APPROX. **12** VOLTS WITH DRIVER’S SEAT AT HEAD REST DOWN OPERATION
(A) 18–GROUND : ALWAYS CONTINUITY
(B) 6, (B) 14–GROUND : ALWAYS APPROX. **12** VOLTS
(B) 1, (B) 7–GROUND : ALWAYS CONTINUITY

P15 POWER SEAT CONTROL SW (FOR DRIVER’S SEAT)

3–13 : CLOSED WITH DRIVER’S SEAT AT FRONT RECLINING OPERATION
4–13 : CLOSED WITH DRIVER’S SEAT AT REAR RECLINING OPERATION
16–13 : CLOSED WITH DRIVER’S SEAT AT HEAD REST UP OPERATION
15–13 : CLOSED WITH DRIVER’S SEAT AT HEAD REST DOWN OPERATION
12–13 : CLOSED WITH DRIVER’S SEAT AT FRONT SLIDE OPERATION
11–13 : CLOSED WITH DRIVER’S SEAT AT REAR SLIDE OPERATION
10–13 : CLOSED WITH DRIVER’S SEAT AT FRONT VERTICAL UP OPERATION
9–13 : CLOSED WITH DRIVER’S SEAT AT FRONT VERTICAL DOWN OPERATION
6–13 : CLOSED WITH DRIVER’S SEAT AT REAR VERTICAL UP OPERATION
5–13 : CLOSED WITH DRIVER’S SEAT AT REAR VERTICAL DOWN OPERATION

S15 STOP LIGHT SW

1–3 : CLOSED WITH STOP LIGHT SW ON

○ : PARTS LOCATION

CODE		SEE PAGE	CODE	SEE PAGE	CODE		SEE PAGE
D 7		28	**P15**	30	**P23**		30
D18		28	**P16**	30	**P24**		30
F22		30	**P17**	30	**P25**		30
H17		30	**P18**	30	**R24**		30
N 1		25	**P19**	30	**S15**		27
P12	C	30	**P20**	30	**27S**		30
P13	A	30	**P21**	30	**T13**	A	27
P14	B	30	**P22**	30	**T14**	B	27

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1A	18	COWL WIRE AND J/B NO.1 (LEFT SIDE OF STEERING COLUMN TUBE)
1D		
1G		
2B	20	COWL WIRE AND J/B NO.2 (ENGINE COMPARTMENT LEFT)
4D	23	COWL WIRE AND J/B NO.4 (BEHIND THE COMBINATION METER)

POWER SEAT (w/ MEMORY)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG2	34	FRONT DOOR LH WIRE AND COWL WIRE (LEFT KICK PANEL)
IH2	34	INSTRUMENT PANEL WIRE AND COWL WIRE (BEHIND GLOVE BOX)
IL3	36	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
IM2	36	FLOOR NO.1 WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
BQ1	38	COWL WIRE AND FLOOR NO.2 WIRE (LEFT KICK PANEL)
BQ2		
BQ3		
BS1	40	FLOOR NO.2 WIRE AND FRONT SEAT LH WIRE (UNDER THE FRONT LH SEAT)
BT1	40	FLOOR NO.1 WIRE AND FRONT SEAT RH WIRE (UNDER THE FRONT RH SEAT)
BW1	38	FLOOR NO.1 WIRE AND FLOOR NO.2 WIRE (UNDER THE LEFT SIDE OF REAR SEAT CUSHION)

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IH	34	RIGHT KICK PANEL
BI	38	UNDER THE LEFT REAR PILLAR
BJ	38	UNDER THE RIGHT REAR PILLAR

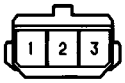
: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 20	36	COWL WIRE	**B 75**	38	FLOOR NO.1 WIRE
I 29			**B110**	40	FRONT SEAT LH WIRE
I 46			**B112**		
I 54			**B115**		
I 68			**B117**		
I 87			**B119**		
B 30	38	FLOOR NO.2 WIRE	**B121**		
B 31			**B123**		
B 33			**B124**		
B 34					

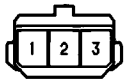
D 7

D18

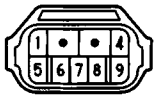
F22 GREEN



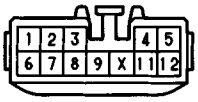
H17



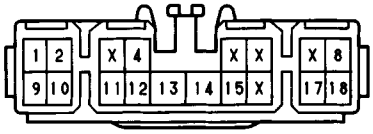
N 1 GRAY



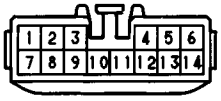
P12 (C)



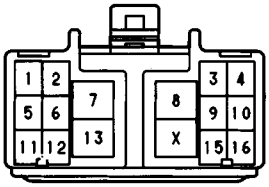
P13 (A)



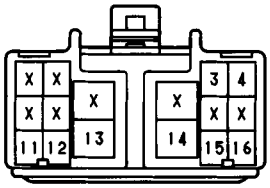
P14 (B) BLUE



P15



P16



P17 ORANGE

P18

P19

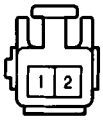
P20 ORANGE

P21

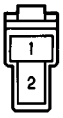
P22 GREEN

P23

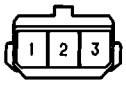
P24 BLUE



P25 GREEN

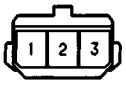


R24

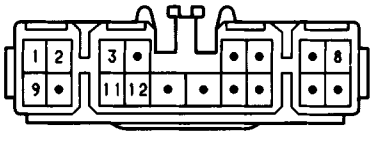


S15

S27 BLUE



T13 (A)



T14 (B)