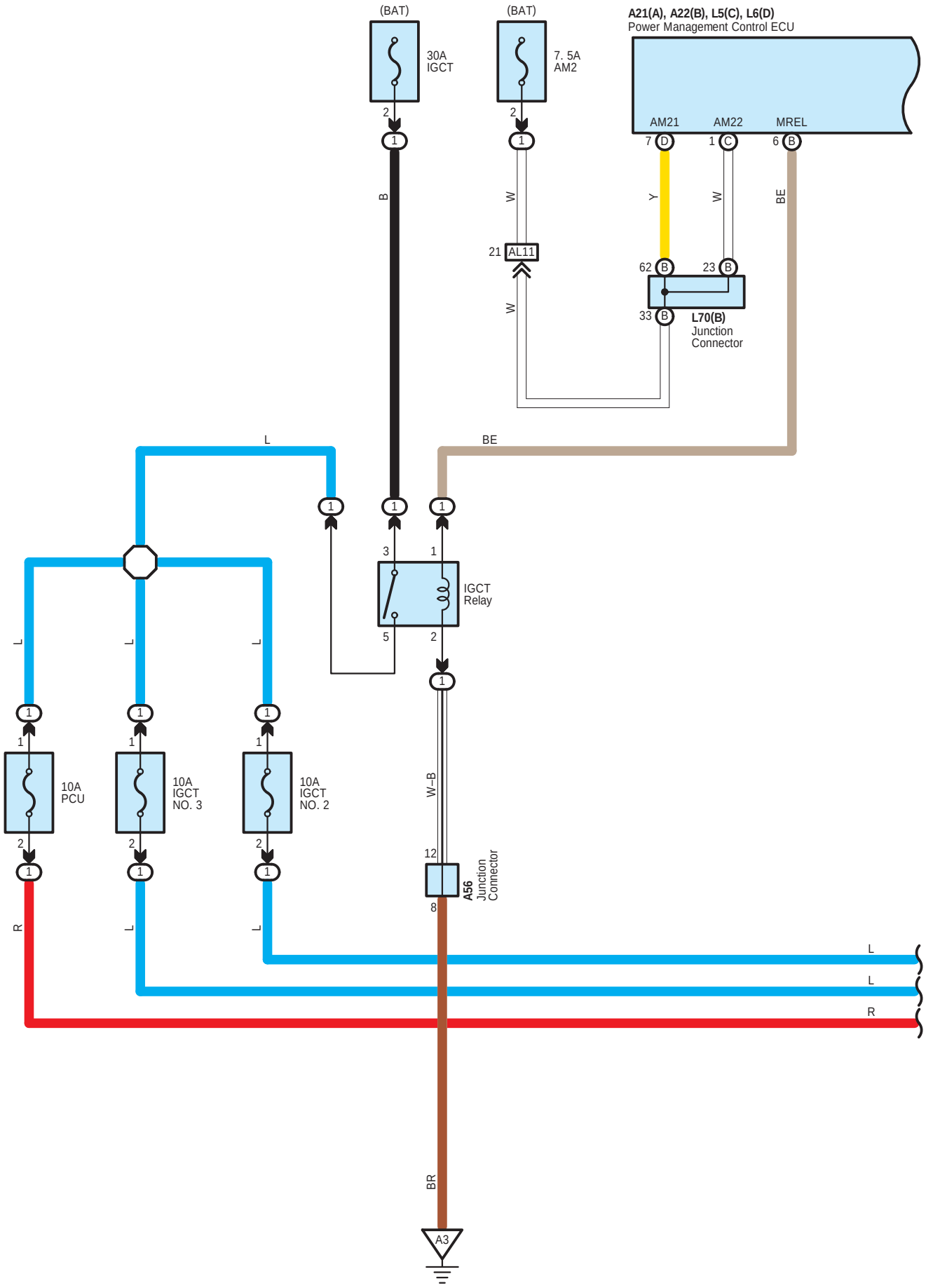
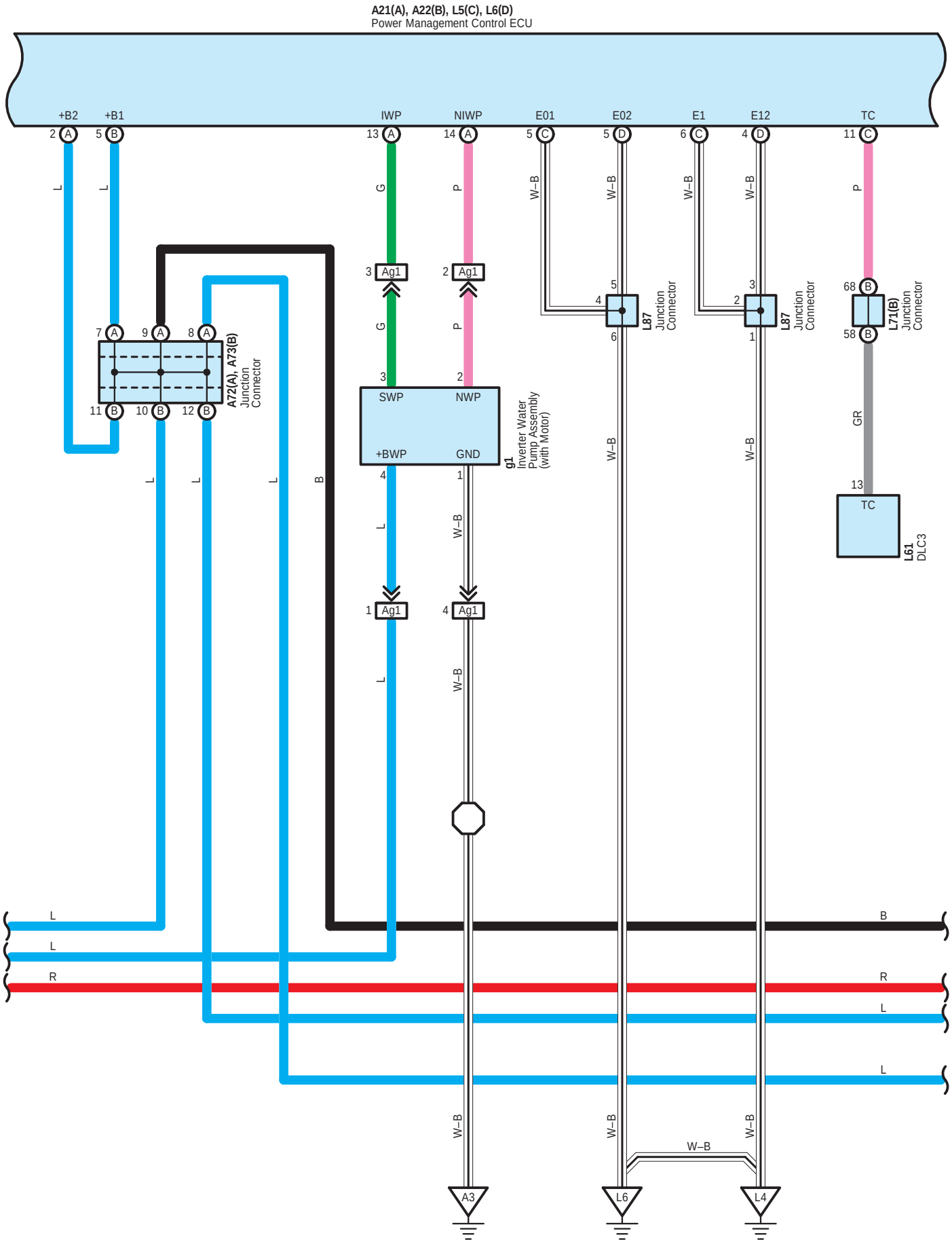
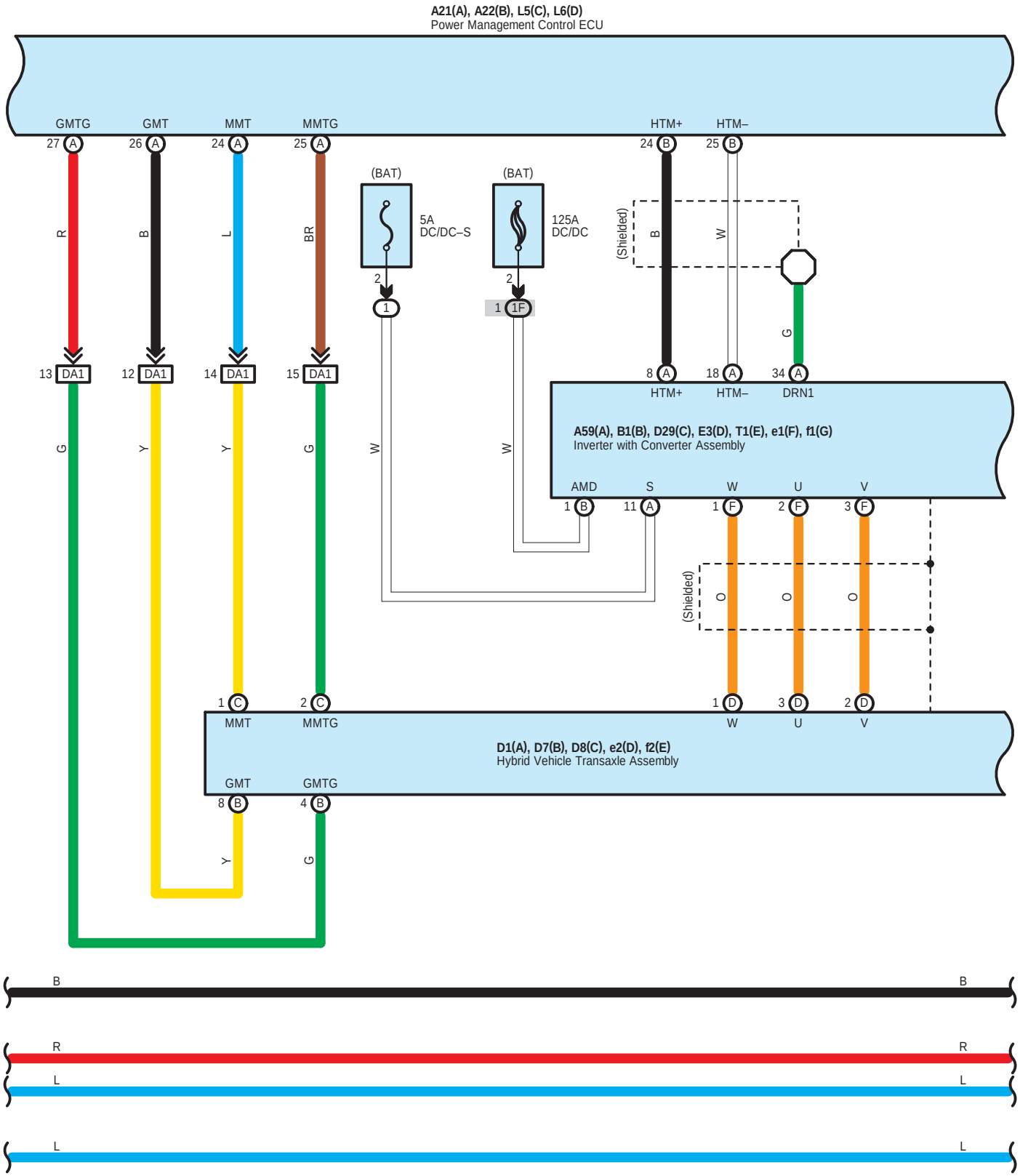
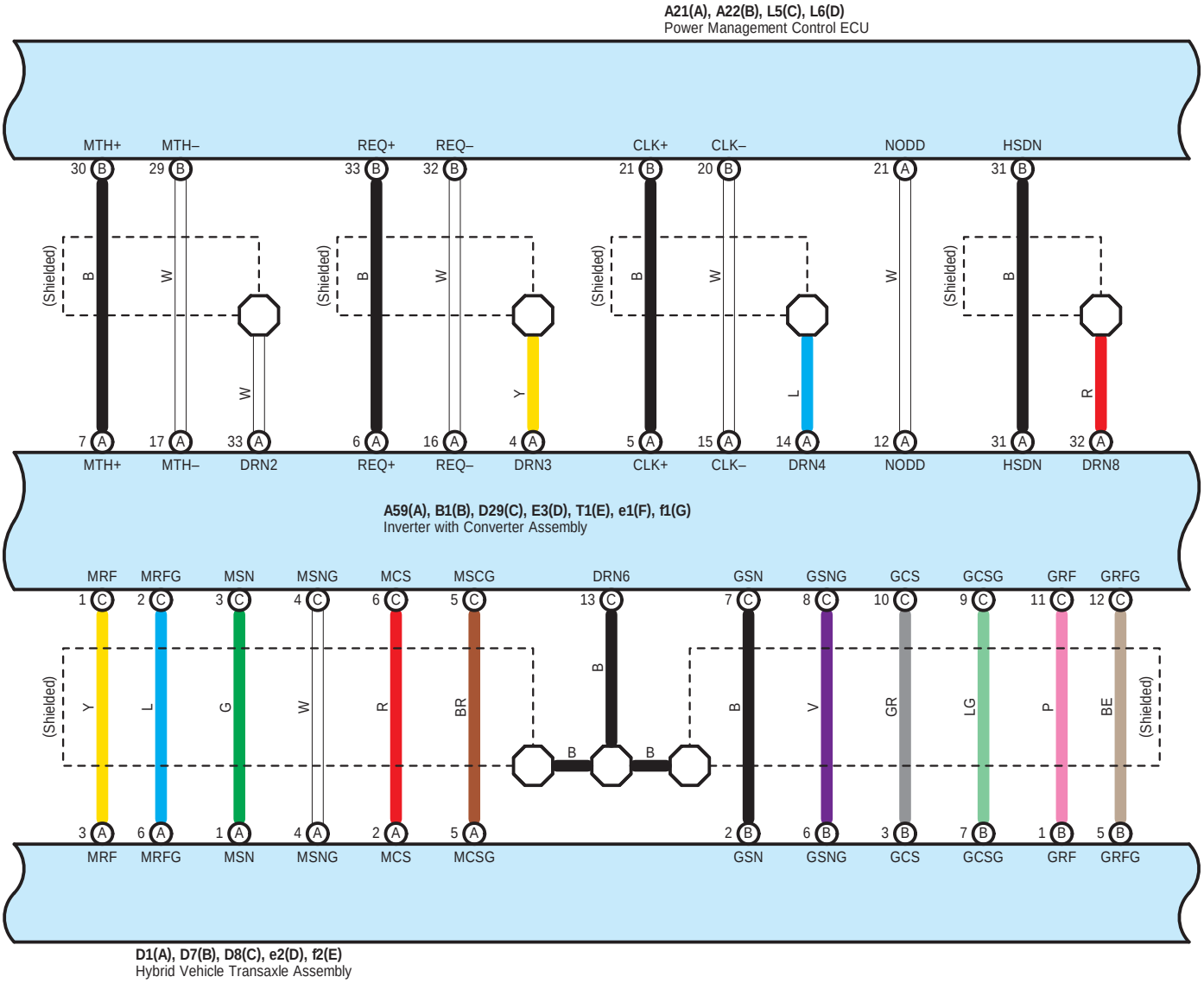
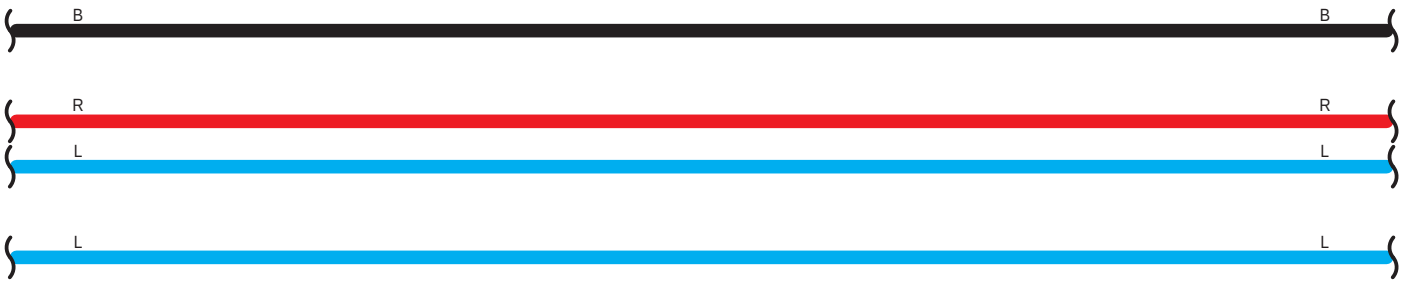
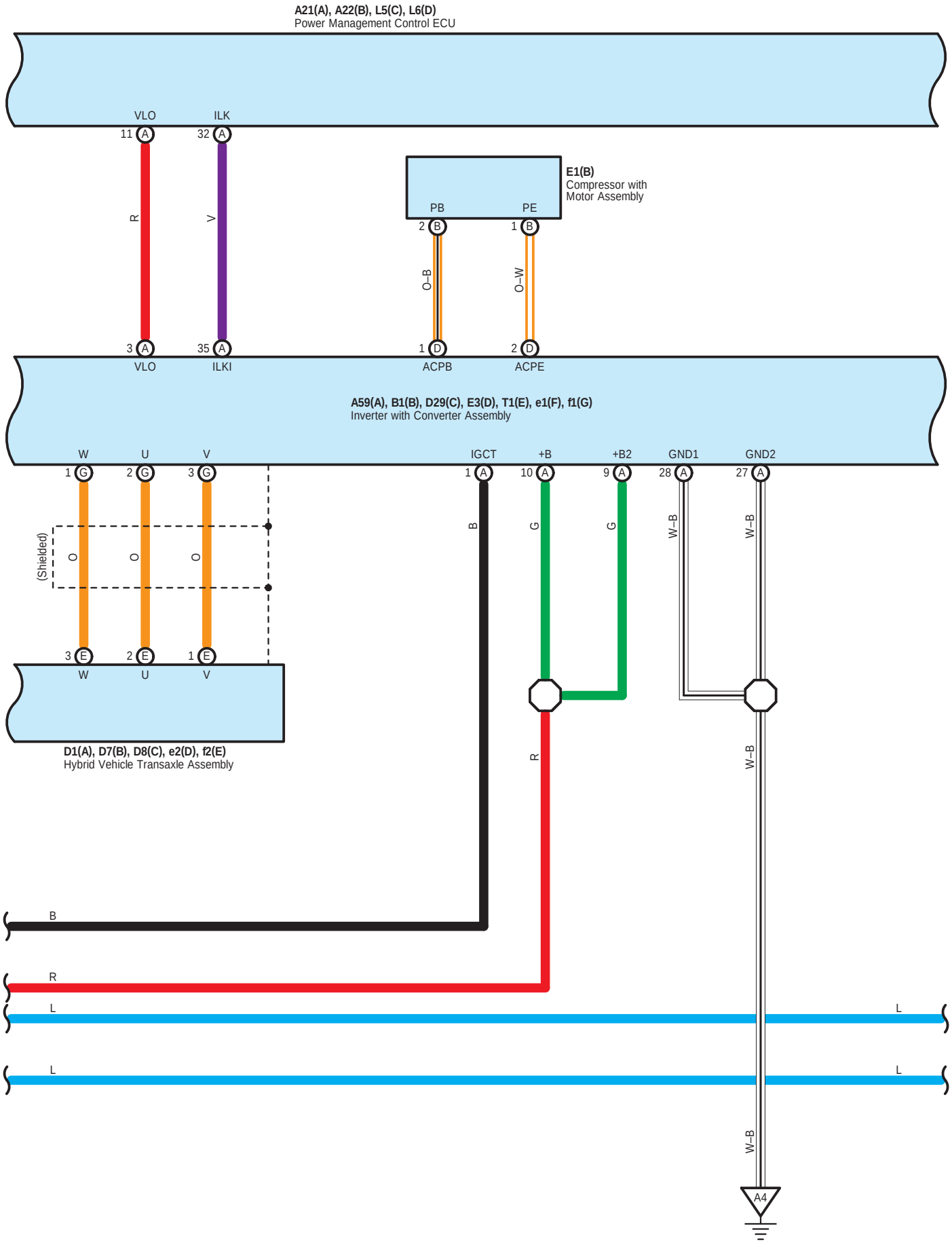

(BAT)
30A
IGCT
(BAT)
7. 5A
AM2
A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
AM21
AM22
MREL
B
W
Y
W
BE
21 AL11
62 B
23 B
33 B
L70(B)
Junction
Connector
L
BE
IGCT
Relay
10A
PCU
10A
IGCT
NO. 3
10A
IGCT
NO. 2
W-B
12
A56
Junction
Connector
8
L
L
R
BR
A3

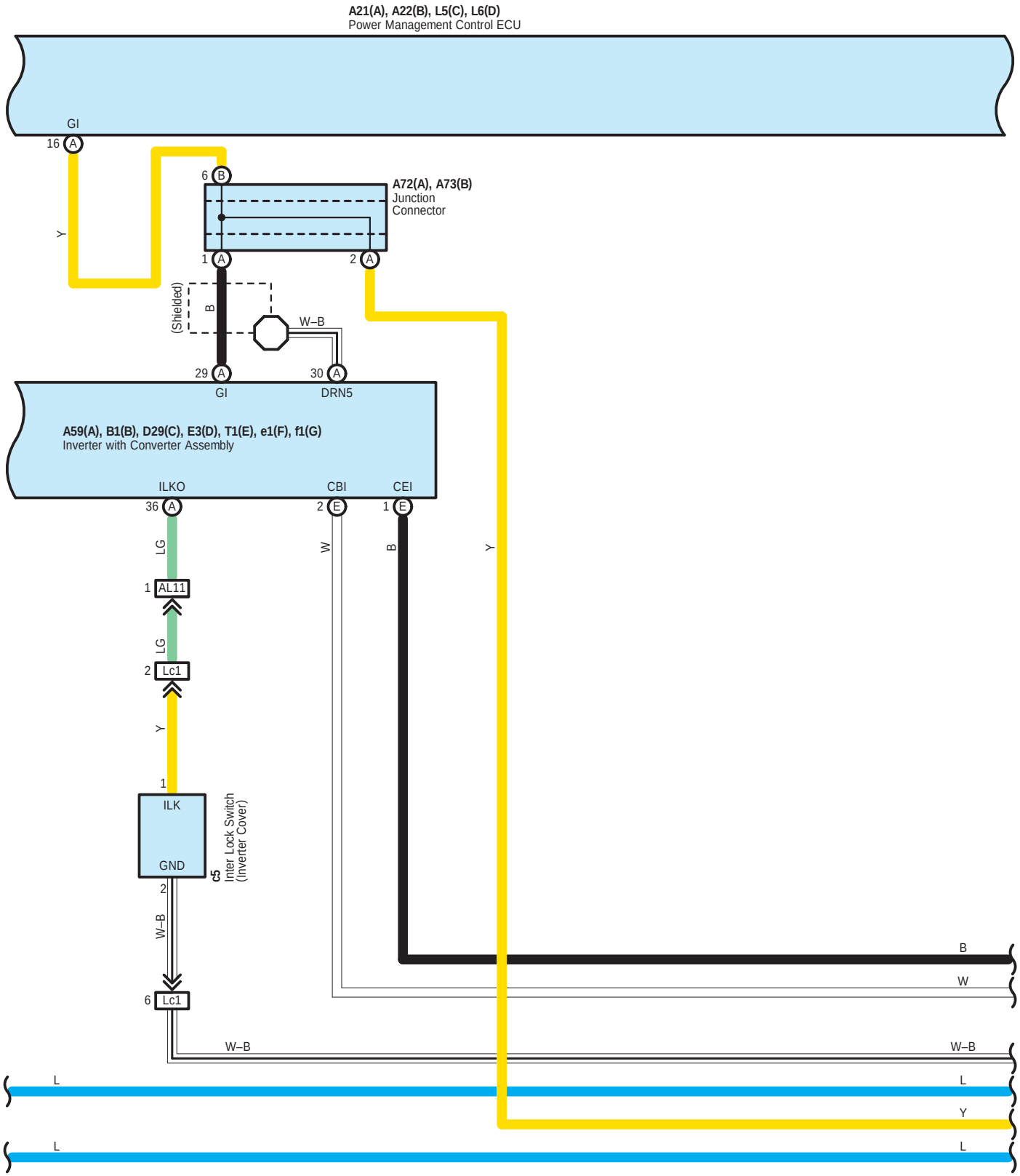

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
+B2
+B1
IWP
NIWP
E01
E02
E1
E12
TC
2 A
5 B
13 A
14 A
5 C
5 D
6 C
4 D
11 C
L
L
G
P
W–B
W–B
W–B
W–B
P
3 Ag1
2 Ag1
G
P
5
4
6
L87
Junction
Connector
3
2
1
L87
Junction
Connector
68 B
58 B
L71(B)
Junction
Connector
7 A
9 A
8 A
11 B
10 B
12 B
A72(A), A73(B)
Junction
Connector
3
2
SWP
NWP
+BWP
GND
g1
Inverter Water
Pump Assembly
(with Motor)
4
1
GR
13
TC
L61
DLC3
L
L
L
B
L
W–B
1 Ag1
4 Ag1
L
W–B
L
L
R
B
R
L
L
W–B
W–B
W–B
W–B
A3
L6
L4

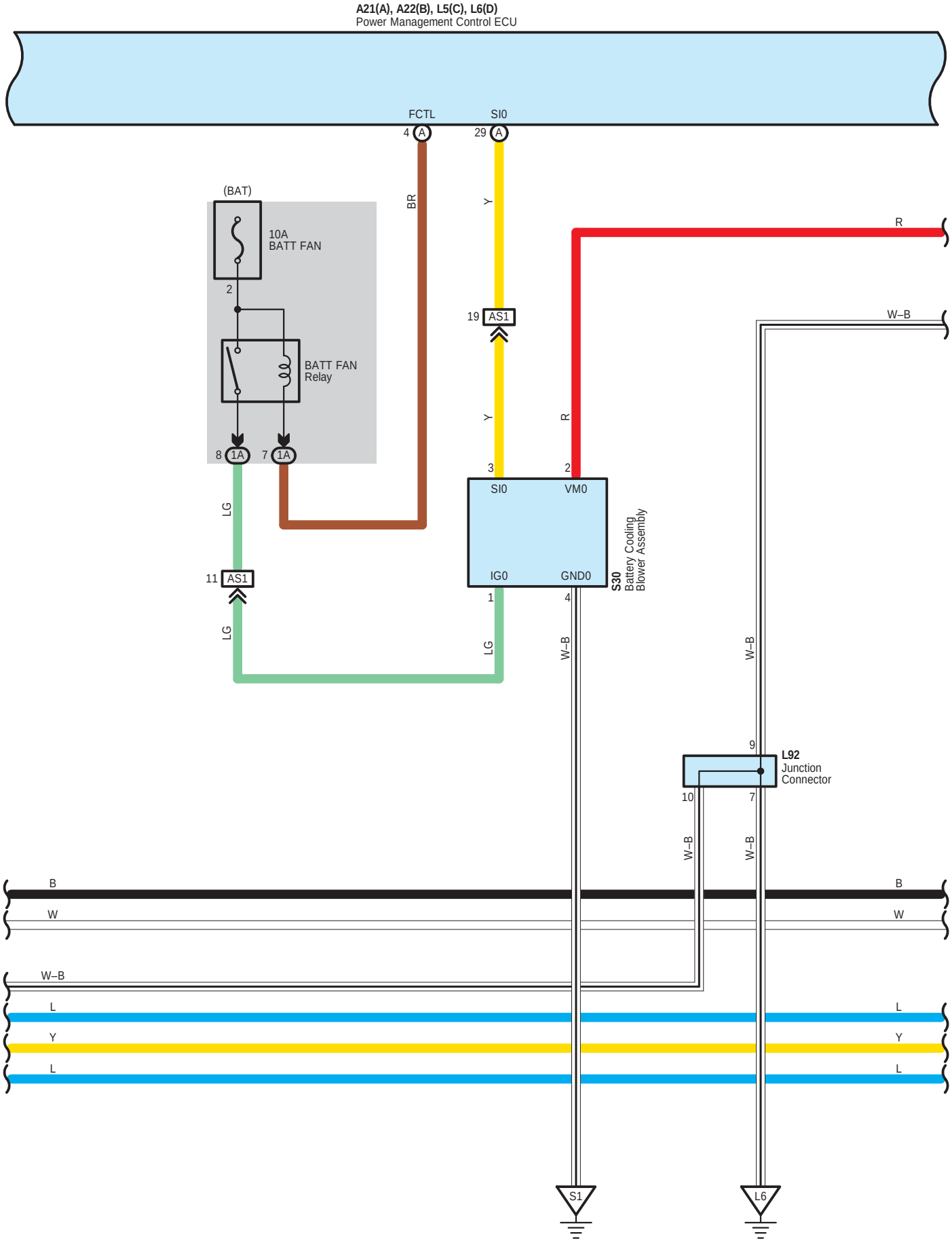

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
GMTG
GMT
MMT
MMTG
HTM+
HTM–
27 A
26 A
24 A
25 A
24 B
25 B
R
B
L
BR
(BAT)
5A
DC/DC–S
(BAT)
125A
DC/DC
(Shielded)
B
W
G
2
1
1 1F
13 DA1
12 DA1
14 DA1
15 DA1
8 A
18 A
34 A
HTM+
HTM–
DRN1
A59(A), B1(B), D29(C), E3(D), T1(E), e1(F), f1(G)
Inverter with Converter Assembly
AMD
S
W
U
V
1 B
11 A
1 F
2 F
3 F
G
Y
Y
G
W
W
O
O
O
(Shielded)
1 C
2 C
MMT
MMTG
1 D
3 D
2 D
W
U
V
D1(A), D7(B), D8(C), e2(D), f2(E)
Hybrid Vehicle Transaxle Assembly
GMT
GMTG
8 B
4 B
Y
G
B
B
R
R
L
L
L
L

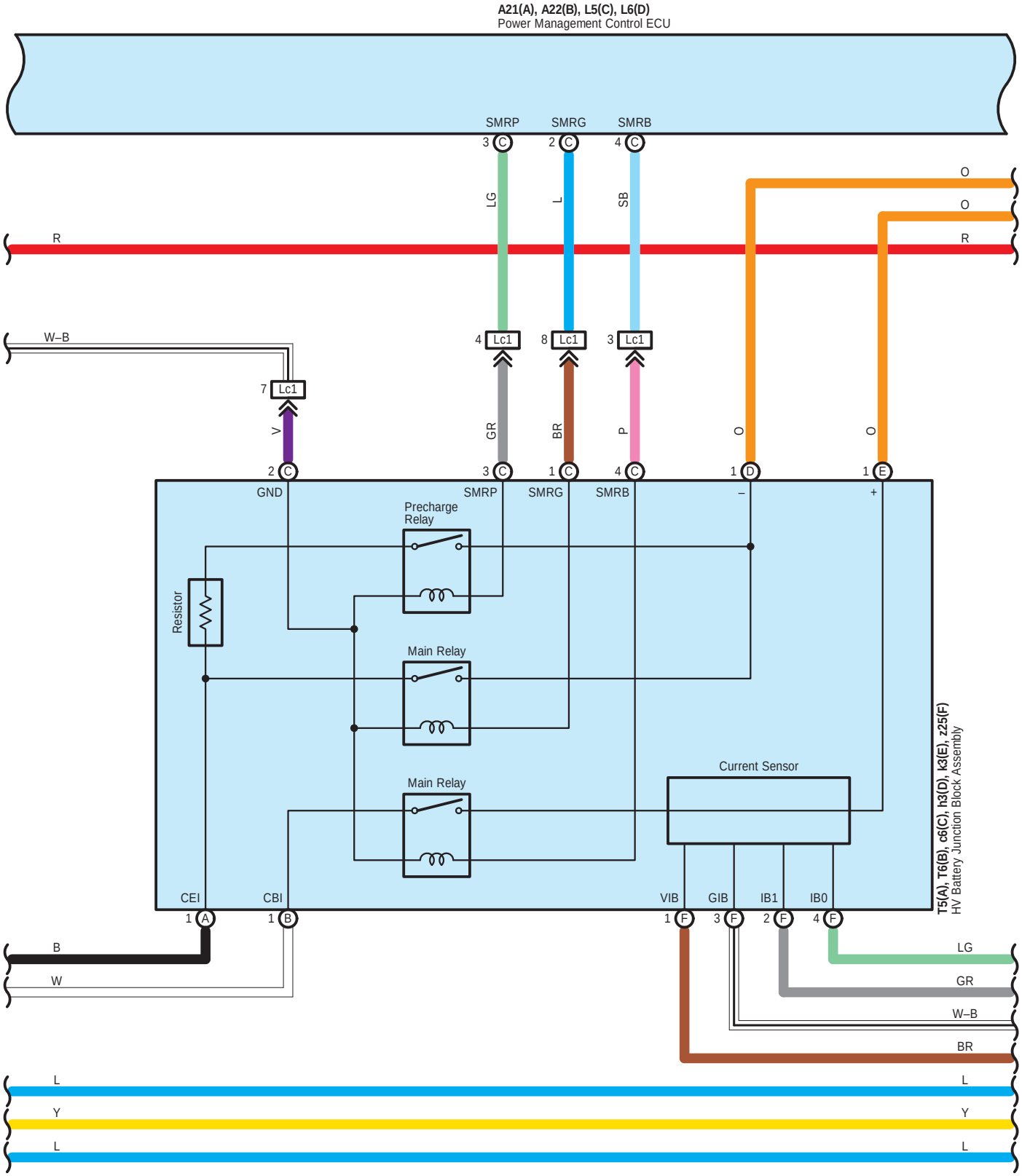

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
MTH+
MTH–
REQ+
REQ–
CLK+
CLK–
NODD
HSDN
30 B
29 B
33 B
32 B
21 B
20 B
21 A
31 B
(Shielded)
B
W
W
B
W
Y
B
W
L
W
B
R
7 A
17 A
33 A
6 A
16 A
4 A
5 A
15 A
14 A
12 A
31 A
32 A
MTH+
MTH–
DRN2
REQ+
REQ–
DRN3
CLK+
CLK–
DRN4
NODD
HSDN
DRN8
A59(A), B1(B), D29(C), E3(D), T1(E), e1(F), f1(G)
Inverter with Converter Assembly
MRF
MRFG
MSN
MSNG
MCS
MSCG
DRN6
GSN
GSNG
GCS
GCSG
GRF
GRFG
1 C
2 C
3 C
4 C
6 C
5 C
13 C
7 C
8 C
10 C
9 C
11 C
12 C
(Shielded)
Y
L
G
W
R
BR
B
B
B
B
V
GR
LG
P
BE
(Shielded)
3 A
6 A
1 A
4 A
2 A
5 A
2 B
6 B
3 B
7 B
1 B
5 B
MRF
MRFG
MSN
MSNG
MCS
MCSG
GSN
GSNG
GCS
GCSG
GRF
GRFG
D1(A), D7(B), D8(C), e2(D), f2(E)
Hybrid Vehicle Transaxle Assembly

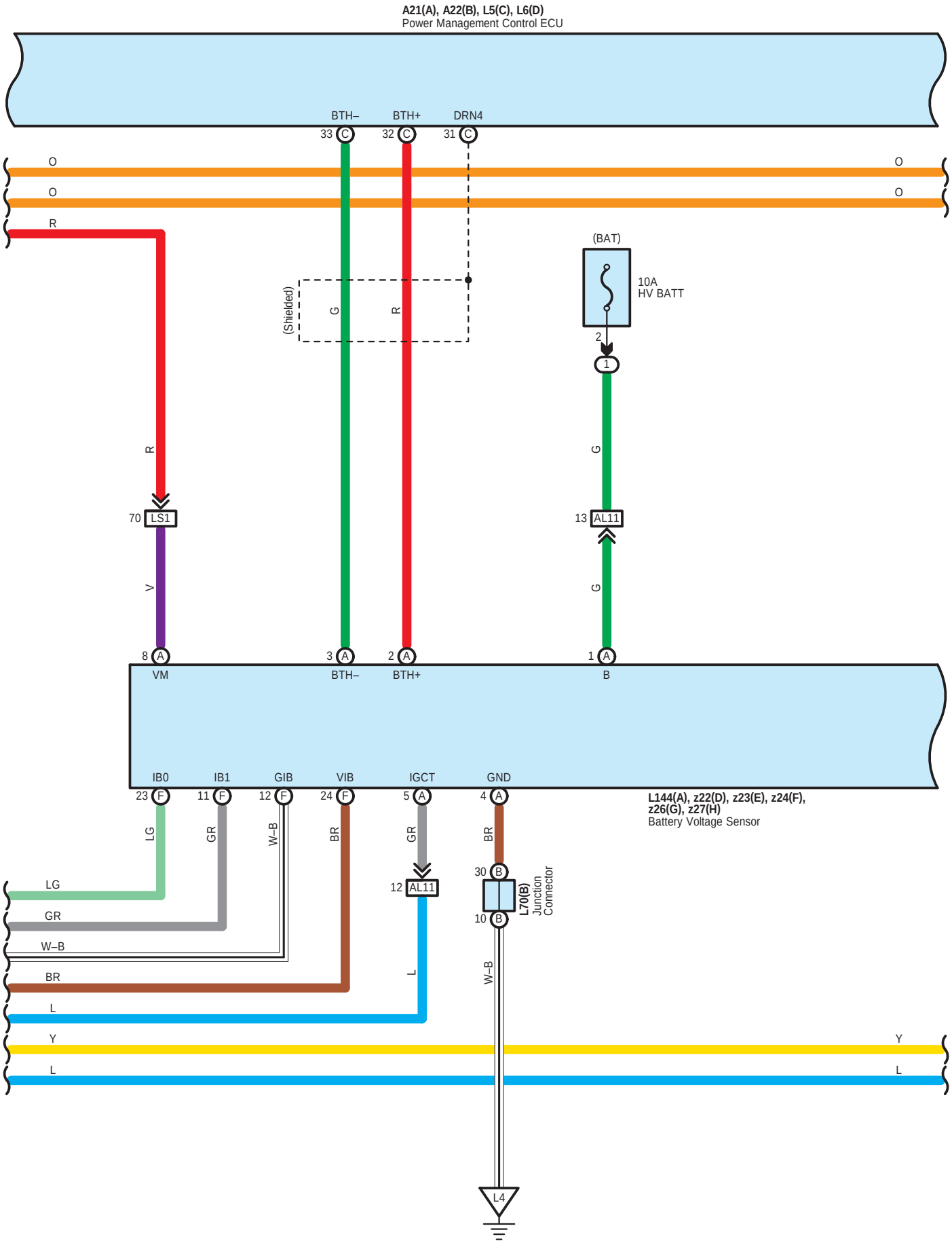

B
B
R
R
L
L
L
L

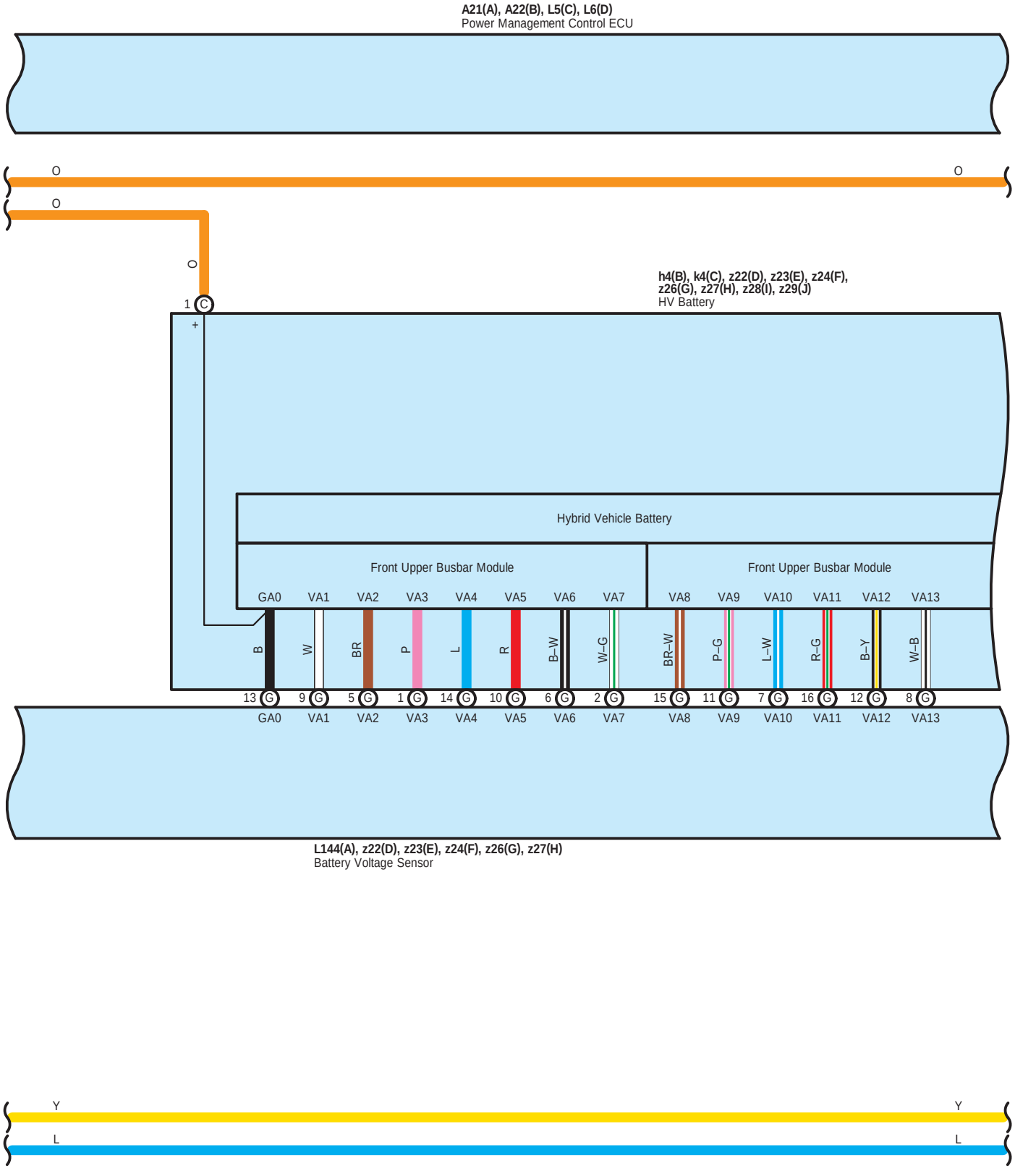

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
VLO
ILK
11 A
32 A
R
V
3 A
35 A
VLO
ILKI
E1(B)
Compressor with
Motor Assembly
PB
PE
2 B
1 B
O–B
O–W
1 D
2 D
ACPB
ACPE
A59(A), B1(B), D29(C), E3(D), T1(E), e1(F), f1(G)
Inverter with Converter Assembly
W
U
V
IGCT
+B
+B2
GND1
GND2
1 G
2 G
3 G
1 A
10 A
9 A
28 A
27 A
(Shielded)
O
O
O
B
G
G
W–B
W–B
3 E
2 E
1 E
W
U
V
D1(A), D7(B), D8(C), e2(D), f2(E)
Hybrid Vehicle Transaxle Assembly
R
W–B
B
R
L
L
L
L
W–B
A4


A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
GI
16 A
Y
6 B
A72(A), A73(B)
Junction
Connector
1 A
2 A
(Shielded)
B
W–B
29 A
30 A
GI
DRN5
A59(A), B1(B), D29(C), E3(D), T1(E), e1(F), f1(G)
Inverter with Converter Assembly
ILKO
CBI
CEI
36 A
2 E
1 E
LG
W
B
Y
1 AL11
LG
2 Lc1
Y
1
ILK
GND
C5
Inter Lock Switch
(Inverter Cover)
2
W–B
6 Lc1
B
W
W–B
W–B
L
L
Y
L
L

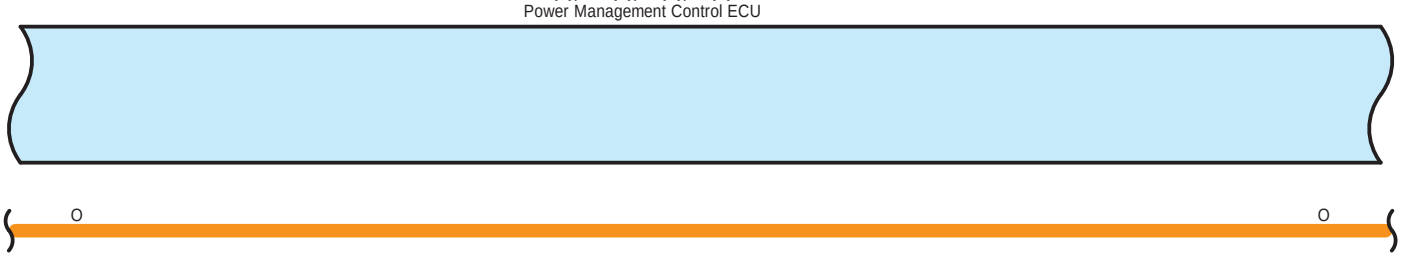

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
FCTL
SI0
4 A
29 A
(BAT)
10A
BATT FAN
2
BATT FAN
Relay
8 1A
7 1A
BR
Y
R
19 AS1
W–B
Y
R
3
2
SI0
VM0
IG0
GND0
S30
Battery Cooling
Blower Assembly
LG
11 AS1
LG
1
4
LG
W–B
W–B
9
L92
Junction
Connector
10
7
W–B
W–B
B
W
W–B
L
Y
L
B
W
L
Y
L
S1
L6


A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
SMRP
SMRG
SMRB
3 C
2 C
4 C
LG
L
SB
O
O
R
R
W–B
4 Lc1
8 Lc1
3 Lc1
7 Lc1
V
GR
BR
P
O
O
2 C
3 C
1 C
4 C
1 D
1 E
GND
SMRP
SMRG
SMRB
–
+
Precharge Relay
Resistor
Main Relay
Main Relay
Current Sensor
T5(A), T6(B), c6(C), h3(D), k3(E), z25(F)
HV Battery Junction Block Assembly
CEI
CBI
VIB
GIB
IB1
IB0
1 A
1 B
1 F
3 F
2 F
4 F
B
W
LG
GR
W–B
BR
L
Y
L
L
Y
L

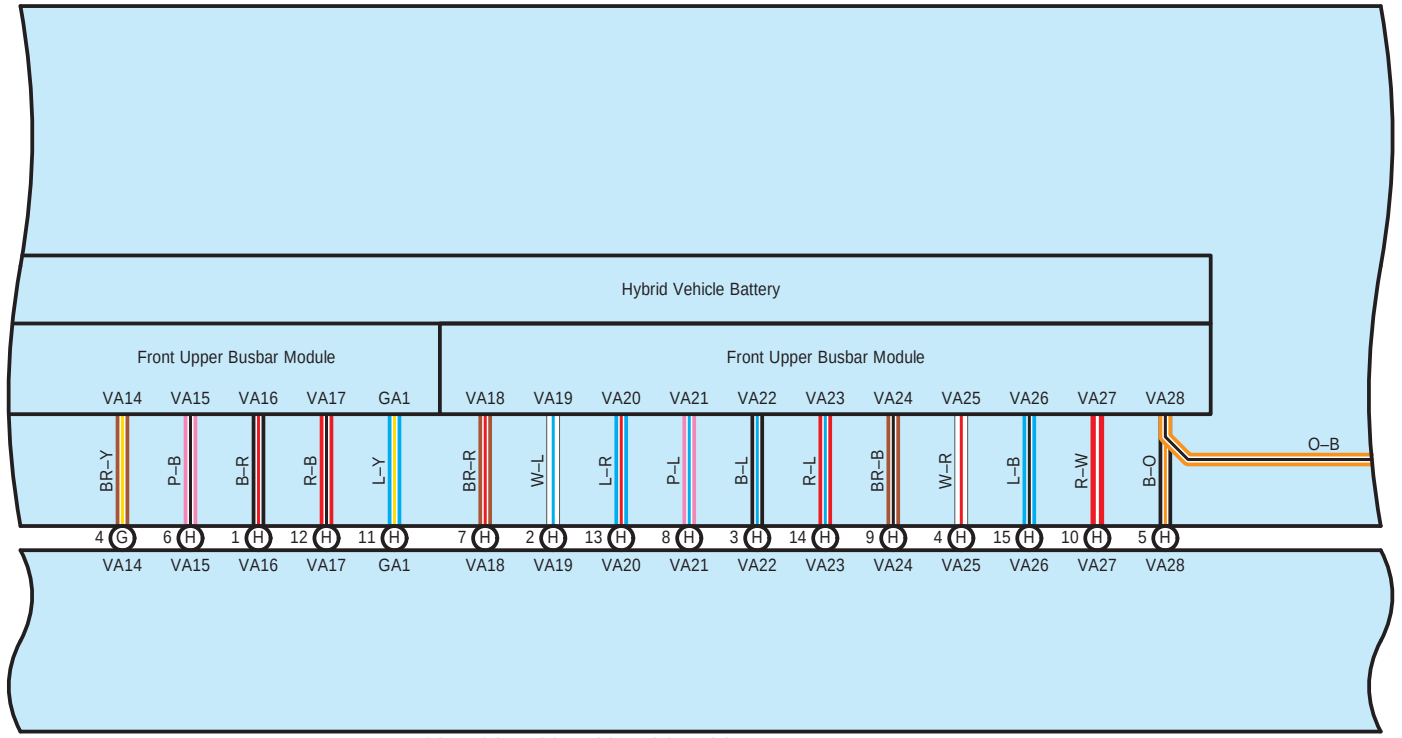

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
BTH–
BTH+
DRN4
33 C
32 C
31 C
O
O
O
O
R
(Shielded)
G
R
(BAT)
10A
HV BATT
2
1
R
G
70 LS1
13 AL11
V
G
8 A
3 A
2 A
1 A
VM
BTH–
BTH+
B
IB0
IB1
GIB
VIB
IGCT
GND
23 F
11 F
12 F
24 F
5 A
4 A
L144(A), z22(D), z23(E), z24(F),
z26(G), z27(H)
Battery Voltage Sensor
LG
GR
W–B
BR
GR
BR
12 AL11
30 B
L70(B)
Junction
Connector
10 B
LG
GR
W–B
BR
L
L
W–B
Y
Y
L
L
L4


A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
O
O
O
O
1 C
+
h4(B), k4(C), z22(D), z23(E), z24(F),
z26(G), z27(H), z28(I), z29(J)
HV Battery
Hybrid Vehicle Battery
Front Upper Busbar Module
Front Upper Busbar Module
GA0 VA1 VA2 VA3 VA4 VA5 VA6 VA7 VA8 VA9 VA10 VA11 VA12 VA13
B W BR P L R B–W W–G BR–W P–G L–W R–G B–Y W–B
13 G 9 G 5 G 1 G 14 G 10 G 6 G 2 G 15 G 11 G 7 G 16 G 12 G 8 G
GA0 VA1 VA2 VA3 VA4 VA5 VA6 VA7 VA8 VA9 VA10 VA11 VA12 VA13
L144(A), z22(D), z23(E), z24(F), z26(G), z27(H)
Battery Voltage Sensor
Y
L
Y
L

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU



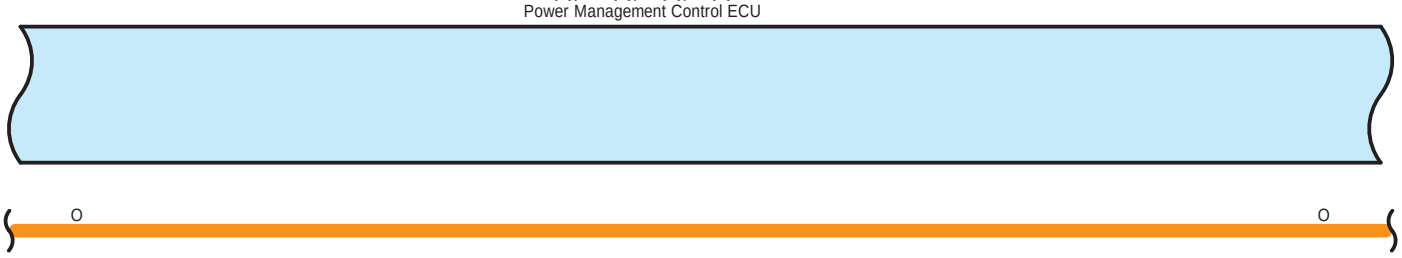
h4(B), k4(C), z22(D), z23(E), z24(F), z26(G), z27(H), z28(I), z29(J)
HV Battery



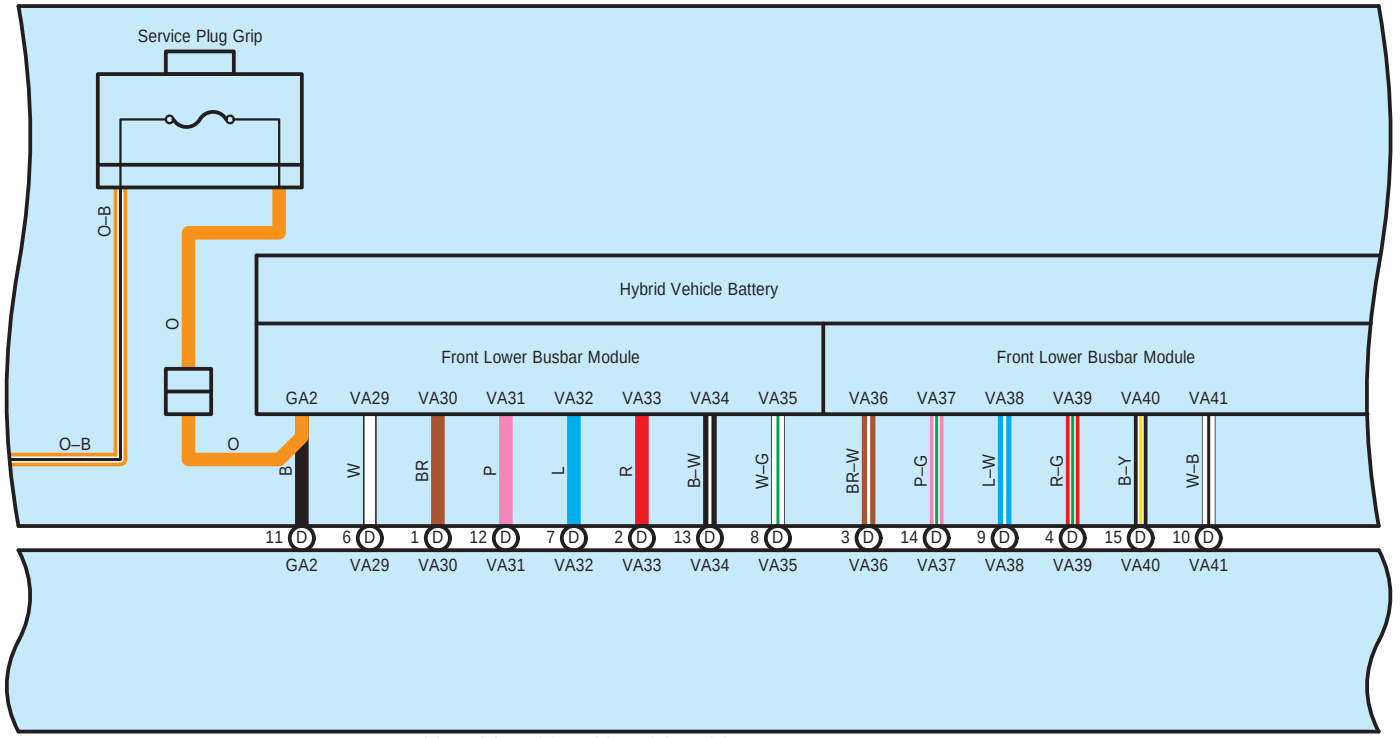
L144(A), z22(D), z23(E), z24(F), z26(G), z27(H)
Battery Voltage Sensor



A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU

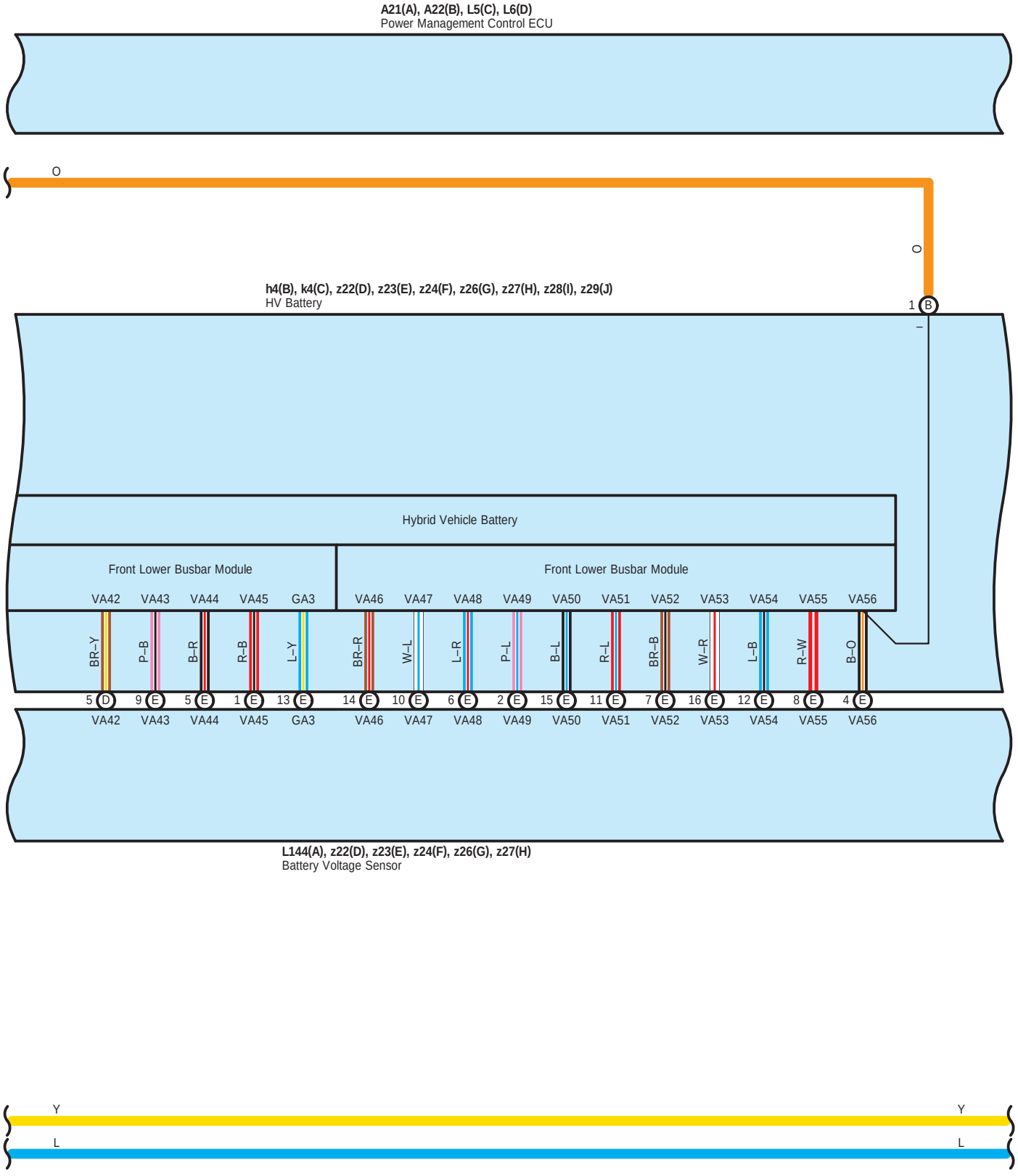


h4(B), k4(C), z22(D), z23(E), z24(F), z26(G), z27(H), z28(I), z29(J)
HV Battery



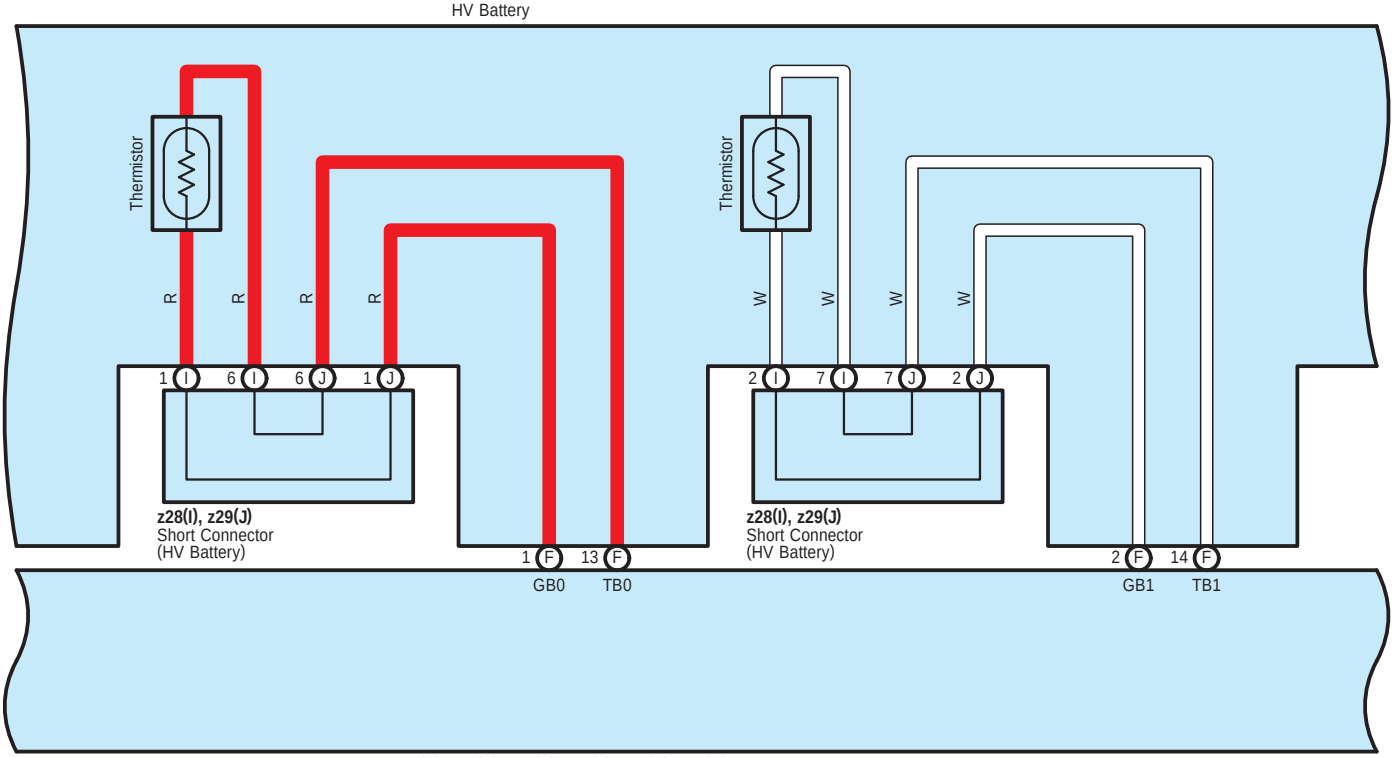
L144(A), z22(D), z23(E), z24(F), z26(G), z27(H)
Battery Voltage Sensor




A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
O
O
h4(B), k4(C), z22(D), z23(E), z24(F), z26(G), z27(H), z28(I), z29(J)
HV Battery
1 B
–
Hybrid Vehicle Battery
Front Lower Busbar Module
Front Lower Busbar Module
VA42 VA43 VA44 VA45 GA3 VA46 VA47 VA48 VA49 VA50 VA51 VA52 VA53 VA54 VA55 VA56
BR–Y P–B B–R R–B L–Y BR–R W–L L–R P–L B–L R–L BR–B W–R L–B R–W B–O
5 D 9 E 5 E 1 E 13 E 14 E 10 E 6 E 2 E 15 E 11 E 7 E 16 E 12 E 8 E 4 E
VA42 VA43 VA44 VA45 GA3 VA46 VA47 VA48 VA49 VA50 VA51 VA52 VA53 VA54 VA55 VA56
L144(A), z22(D), z23(E), z24(F), z26(G), z27(H)
Battery Voltage Sensor
Y
L
Y
L

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU

h4(B), k4(C), z22(D), z23(E), z24(F), z26(G), z27(H), z28(I), z29(J)
HV Battery

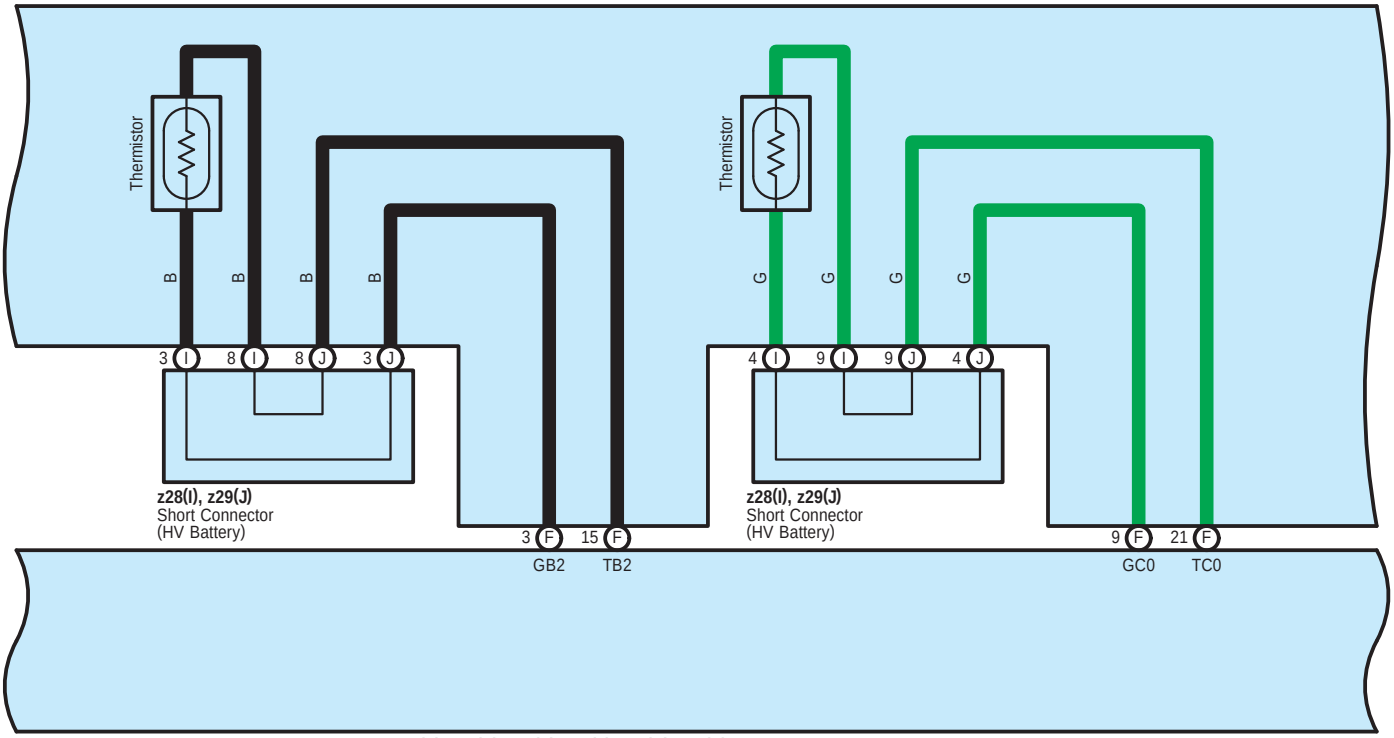


L144(A), z22(D), z23(E), z24(F), z26(G), z27(H)
Battery Voltage Sensor



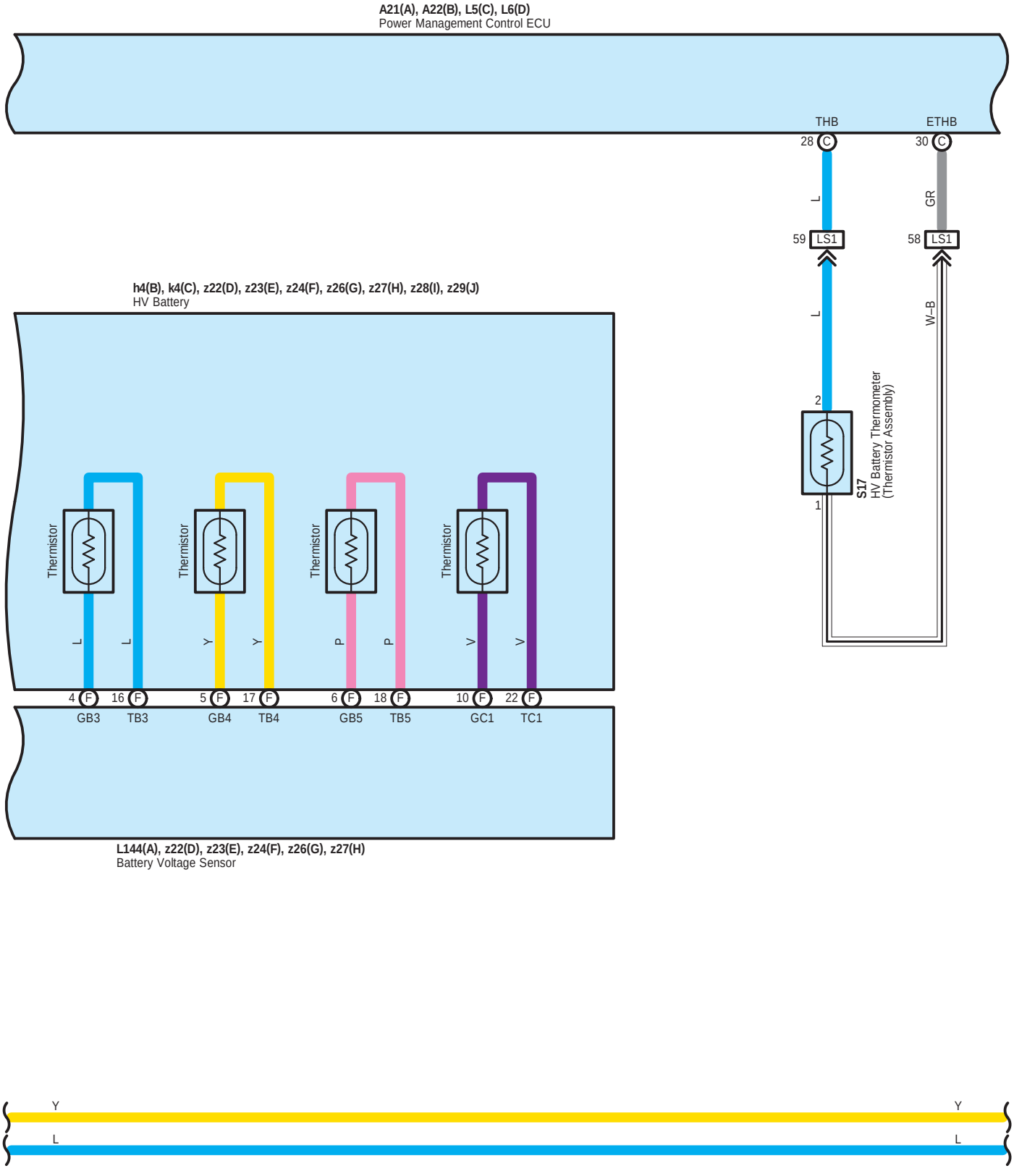
A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU

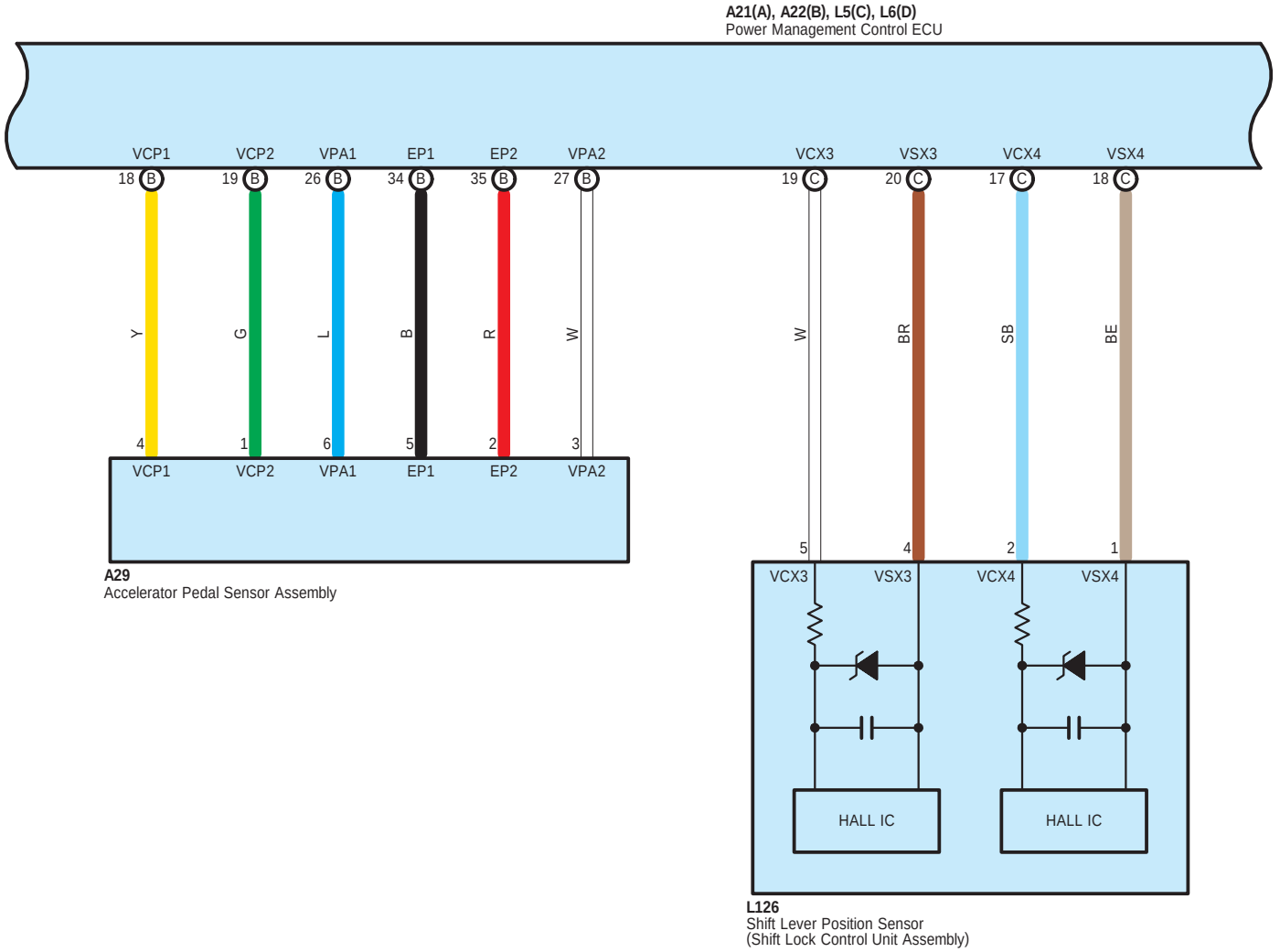
h4(B), k4(C), z22(D), z23(E), z24(F), z26(G), z27(H), z28(I), z29(J)
HV Battery



L144(A), z22(D), z23(E), z24(F), z26(G), z27(H)
Battery Voltage Sensor

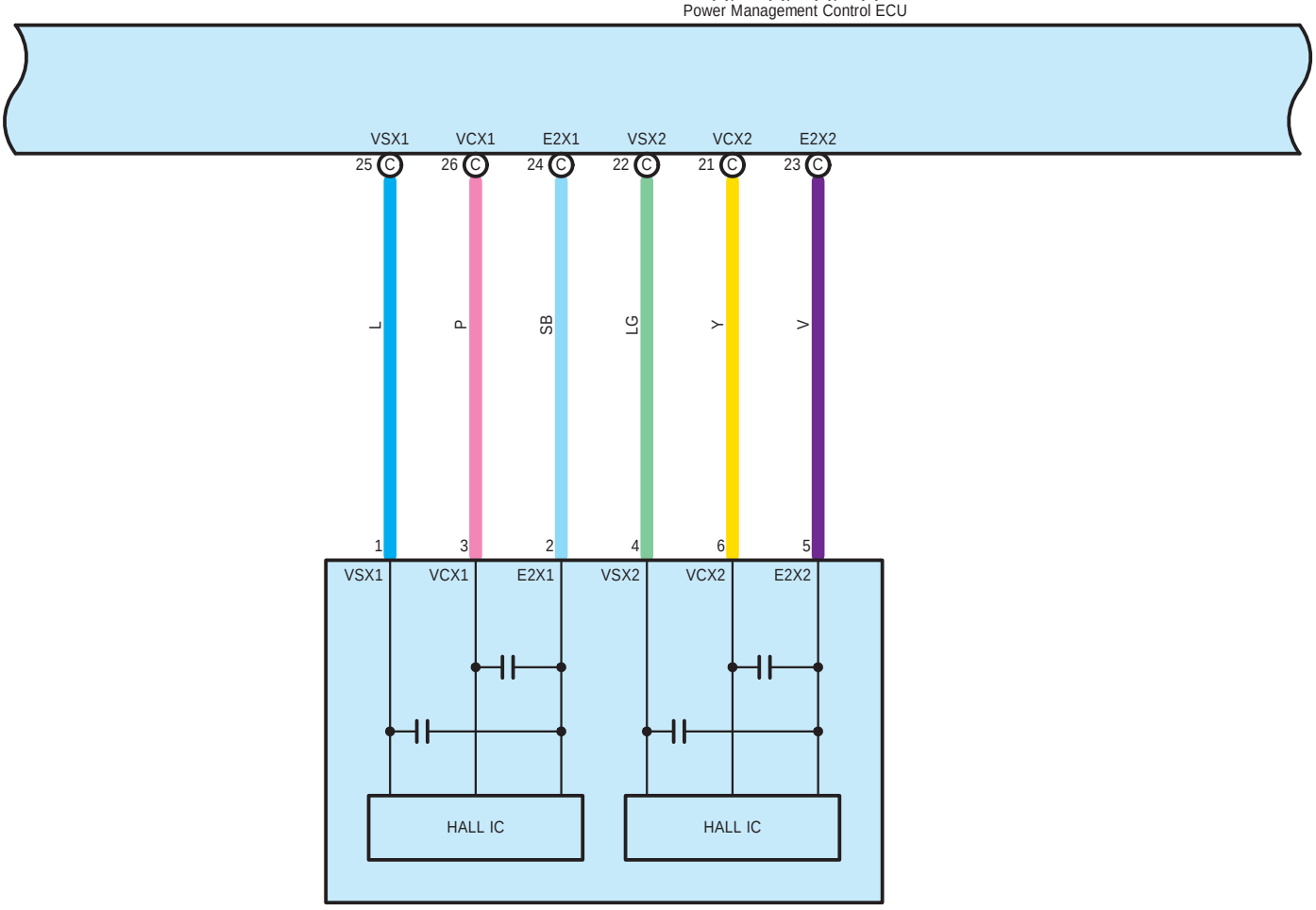



A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
THB
ETHB
28 C
30 C
L
GR
59 LS1
58 LS1
L
W-B
2
1
S17
HV Battery Thermometer
(Thermistor Assembly)
h4(B), k4(C), z22(D), z23(E), z24(F), z26(G), z27(H), z28(I), z29(J)
HV Battery
Thermistor
Thermistor
Thermistor
Thermistor
L
L
Y
Y
P
P
V
V
4 F
16 F
5 F
17 F
6 F
18 F
10 F
22 F
GB3
TB3
GB4
TB4
GB5
TB5
GC1
TC1
L144(A), z22(D), z23(E), z24(F), z26(G), z27(H)
Battery Voltage Sensor
Y
L
Y
L


A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
VCP1
VCP2
VPA1
EP1
EP2
VPA2
VCX3
VSX3
VCX4
VSX4
18 B
19 B
26 B
34 B
35 B
27 B
19 C
20 C
17 C
18 C
Y
G
L
B
R
W
W
BR
SB
BE
4
1
6
5
2
3
5
4
2
1
VCP1
VCP2
VPA1
EP1
EP2
VPA2
VCX3
VSX3
VCX4
VSX4
HALL IC
HALL IC
A29
Accelerator Pedal Sensor Assembly
L126
Shift Lever Position Sensor
(Shift Lock Control Unit Assembly)

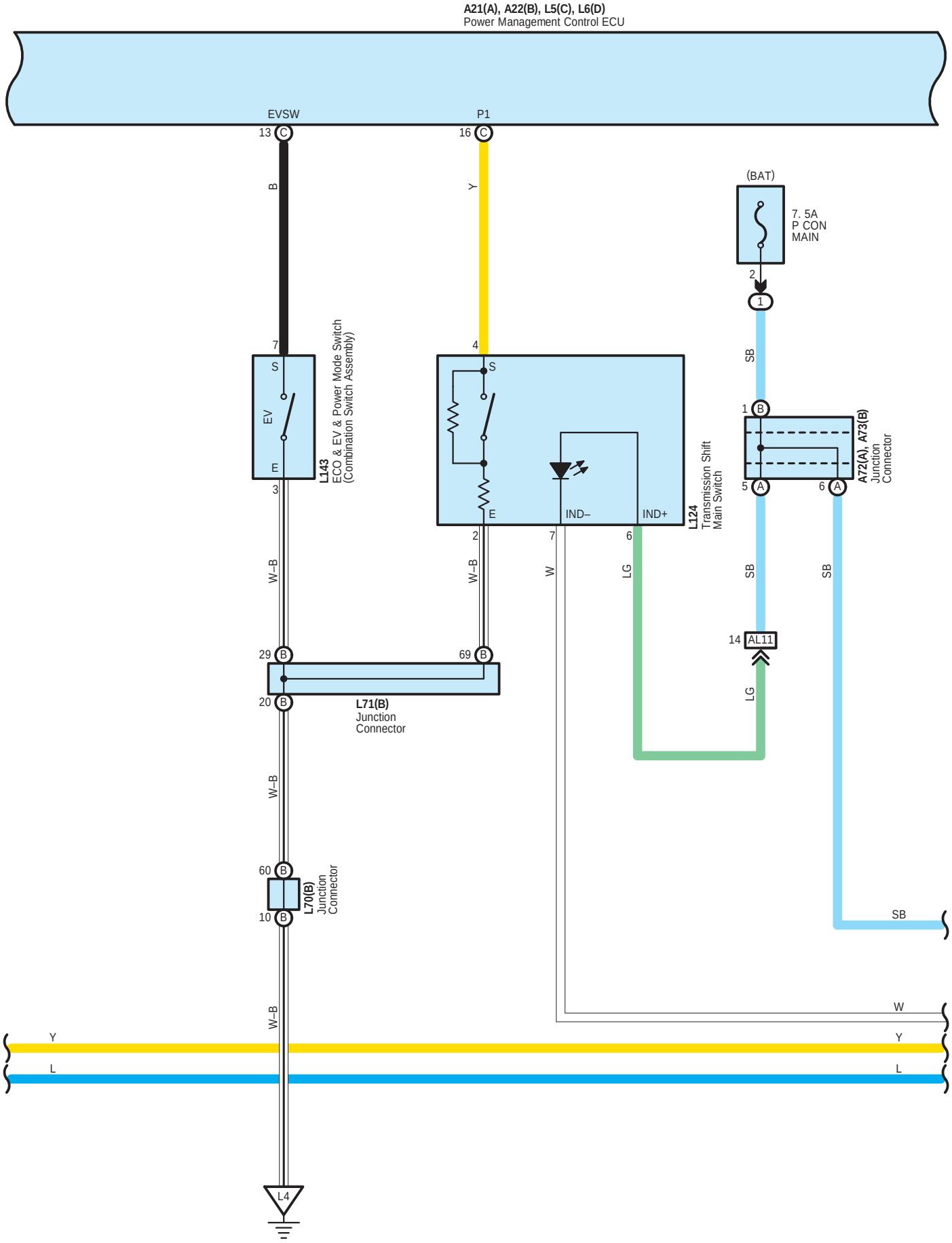

Y
L
Y
L

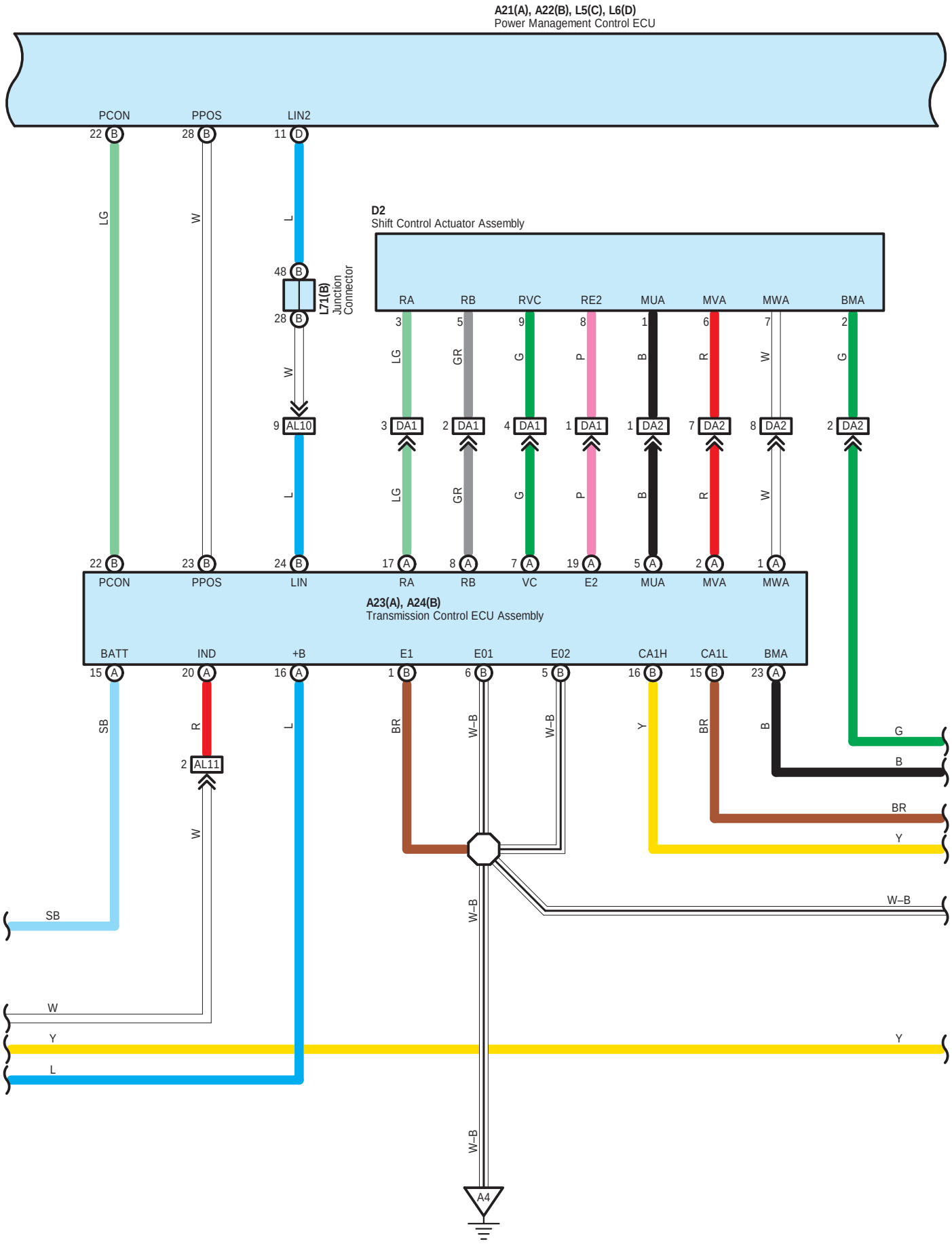
A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU

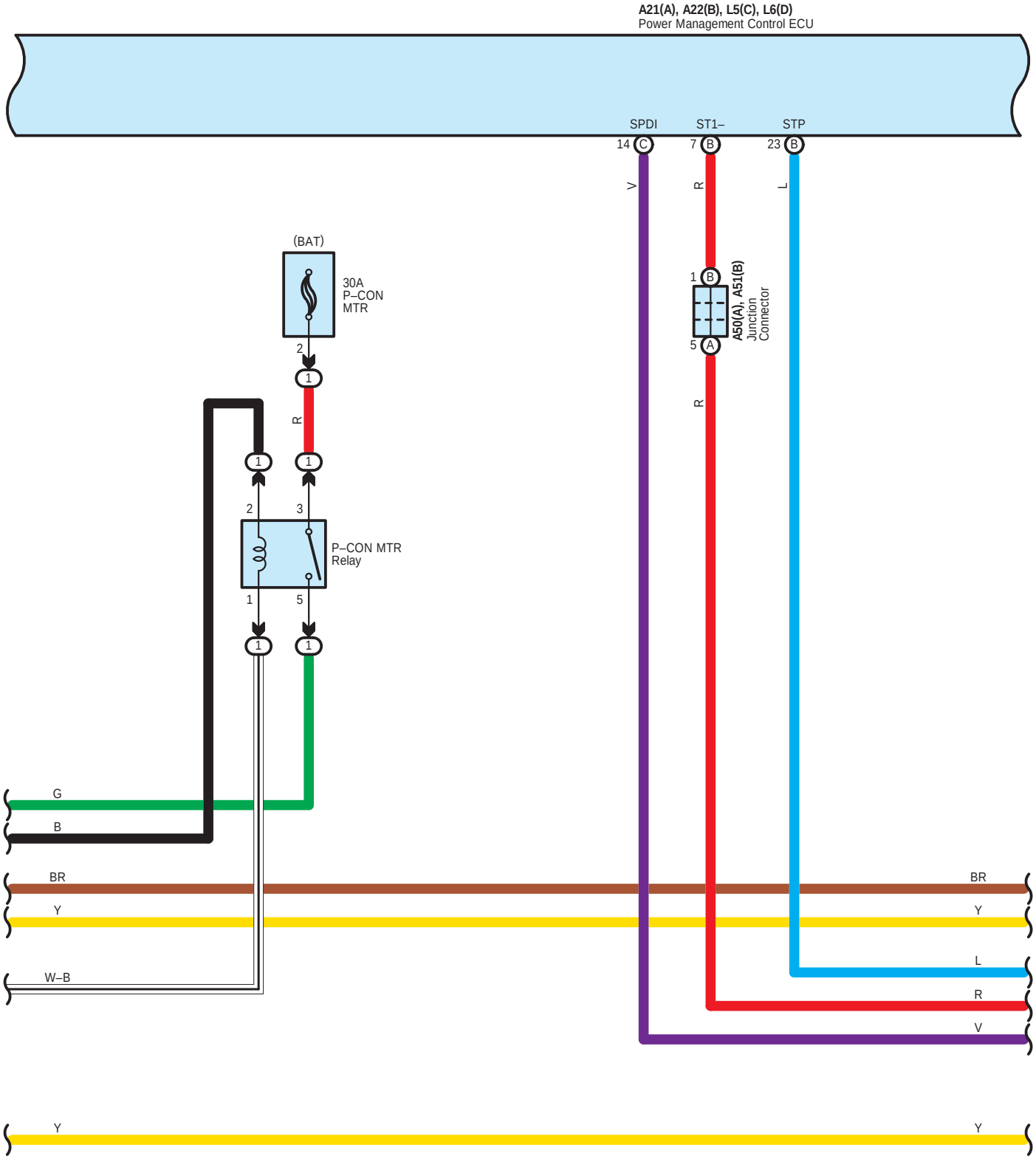


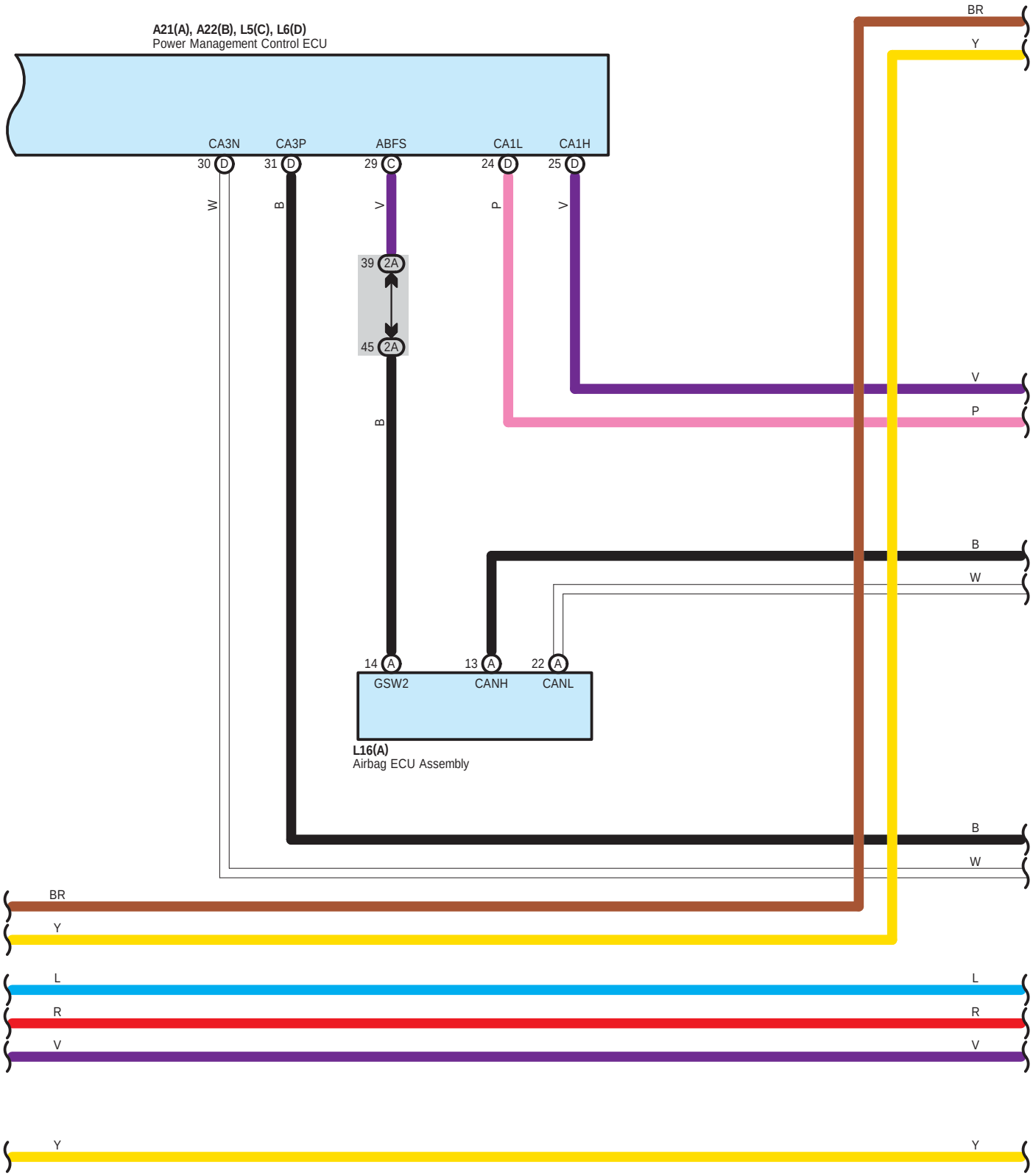
L127
No. 2 Shift Lever Position Sensor
(Shift Lock Control Unit Assembly)

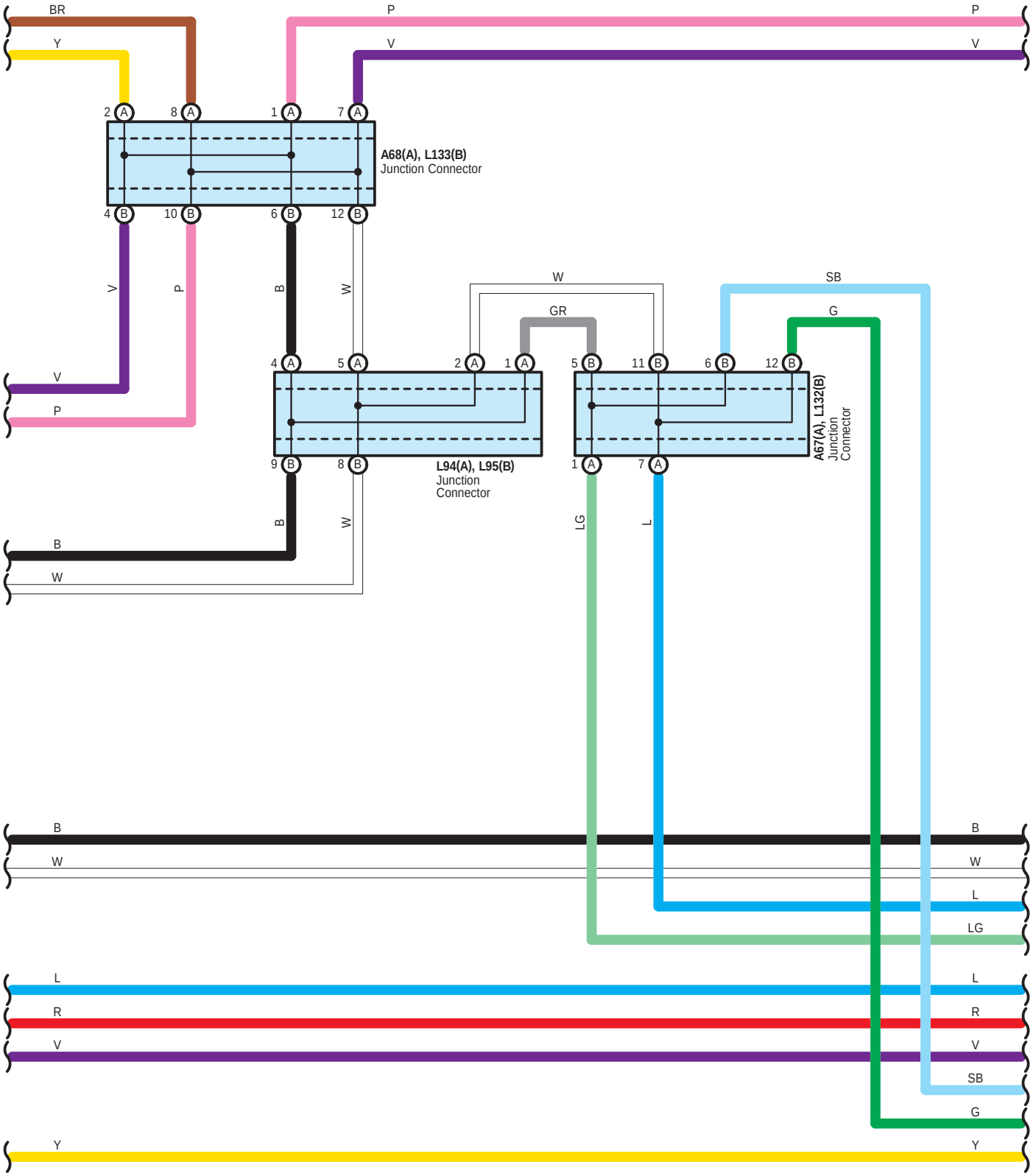


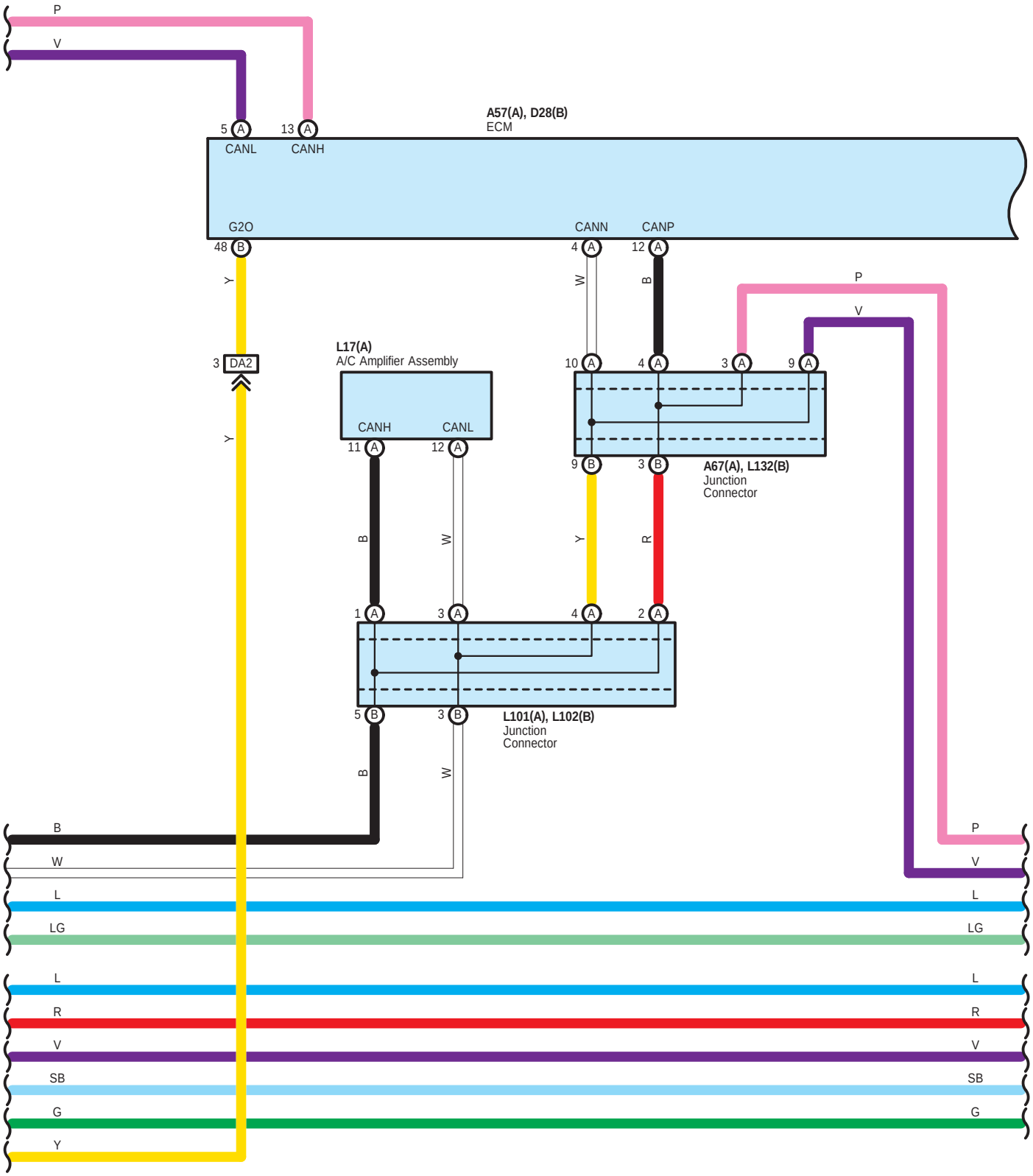

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
EVSW
P1
13 C
16 C
B
Y
(BAT)
7. 5A
P CON
MAIN
2
1
SB
7
4
S
EV
E
L143
ECO & EV & Power Mode Switch
(Combination Switch Assembly)
S
E
IND–
IND+
L124
Transmission Shift
Main Switch
1 B
5 A
6 A
A72(A), A73(B)
Junction
Connector
3
2
7
6
W–B
W–B
W
LG
SB
SB
14 AL11
LG
29 B
69 B
20 B
L71(B)
Junction
Connector
SB
W–B
60 B
10 B
L70(B)
Junction
Connector
W
Y
L
Y
L
W–B
L4

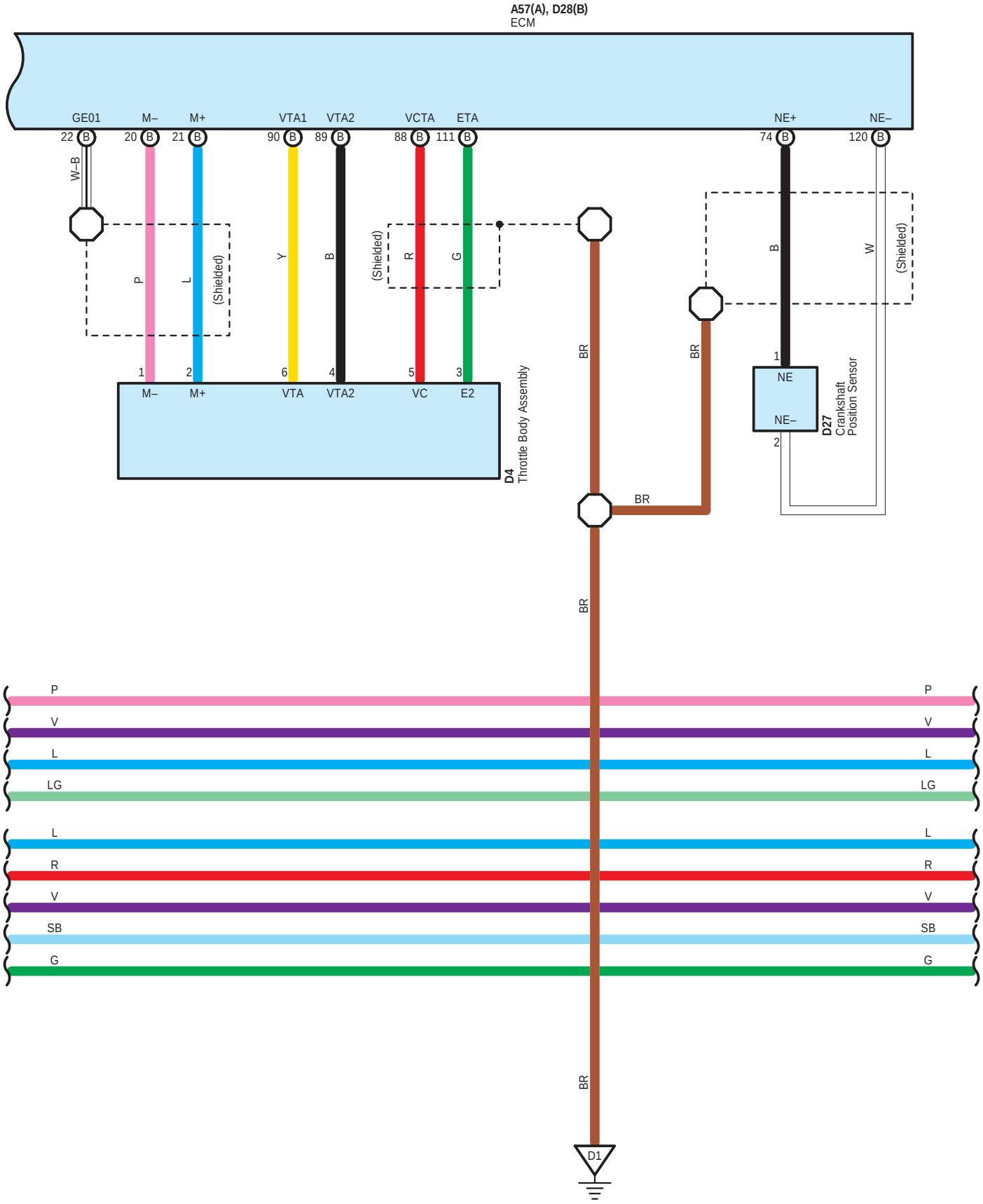

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
PCON
PPOS
LIN2
22 B
28 B
11 D
LG
W
L
48 B
28 B
L71(B)
Junction Connector
W
9 AL10
L
D2
Shift Control Actuator Assembly
RA
RB
RVC
RE2
MUA
MVA
MWA
BMA
3
5
9
8
1
6
7
2
LG
GR
G
P
B
R
W
G
3 DA1
2 DA1
4 DA1
1 DA1
1 DA2
7 DA2
8 DA2
2 DA2
LG
GR
G
P
B
R
W
22 B
23 B
24 B
17 A
8 A
7 A
19 A
5 A
2 A
1 A
PCON
PPOS
LIN
RA
RB
VC
E2
MUA
MVA
MWA
A23(A), A24(B)
Transmission Control ECU Assembly
BATT
IND
+B
E1
E01
E02
CA1H
CA1L
BMA
15 A
20 A
16 A
1 B
6 B
5 B
16 B
15 B
23 A
SB
R
L
BR
W–B
W–B
Y
BR
B
G
B
BR
Y
2 AL11
W
W–B
SB
W
Y
L
Y
W–B
A4

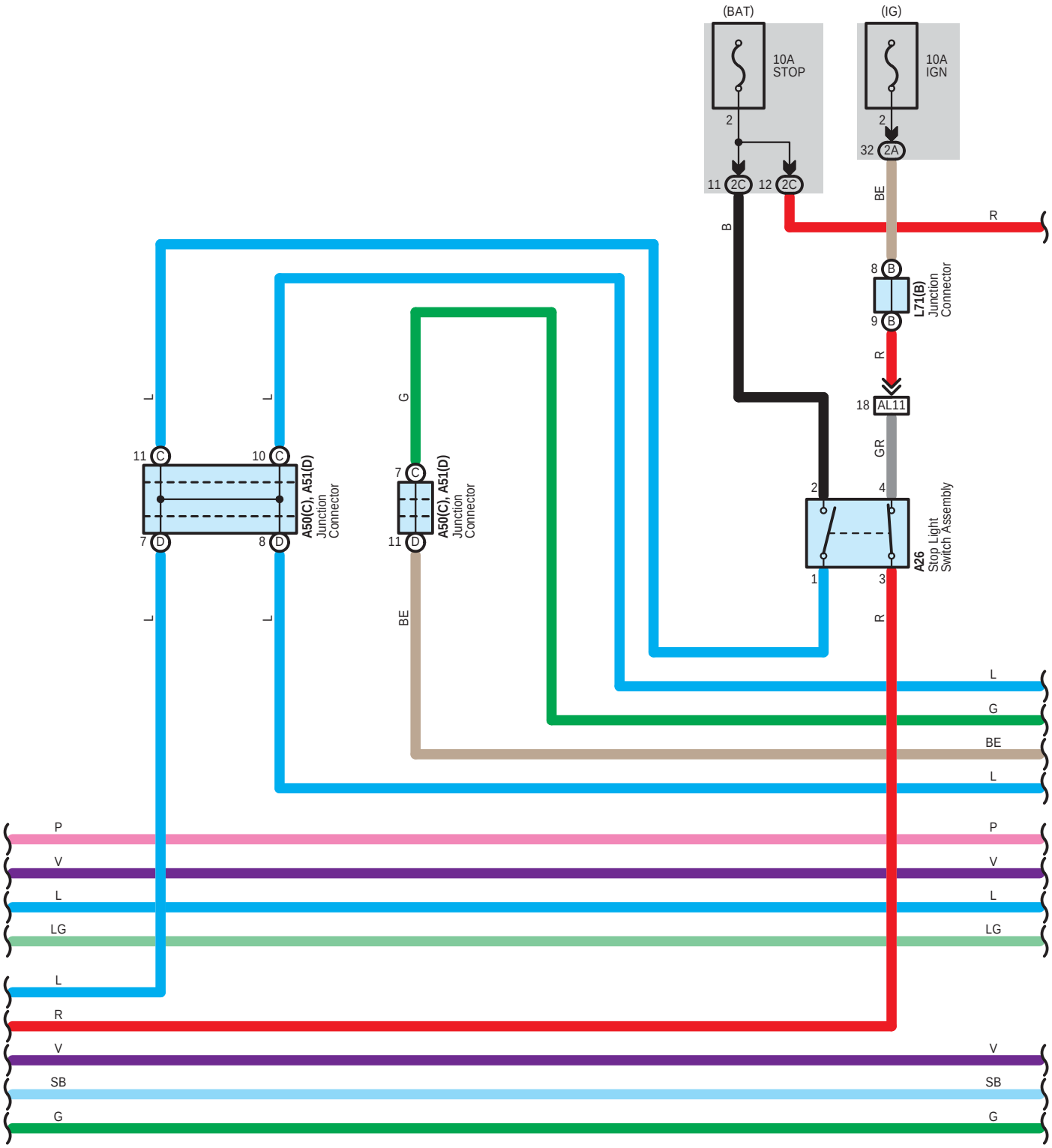

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
SPDI
ST1–
STP
14 C
7 B
23 B
V
R
L
(BAT)
30A
P–CON
MTR
2
1
R
1 B
5 A
A50(A), A51(B)
Junction
Connector
R
1
1
2
3
P–CON MTR
Relay
1
5
1
1
G
B
BR
Y
W–B
BR
Y
L
R
V
Y
Y

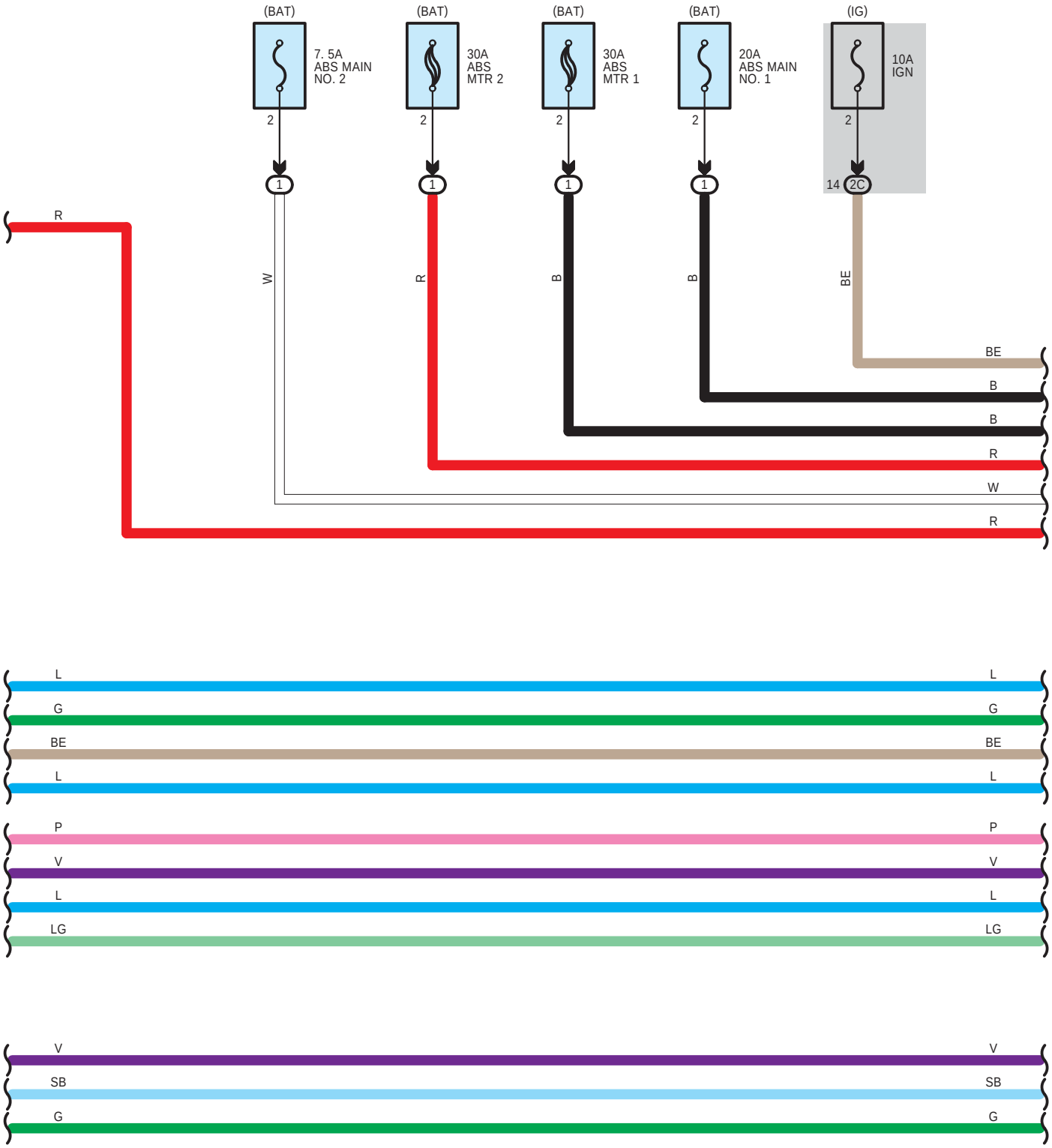

A21(A), A22(B), L5(C), L6(D)
Power Management Control ECU
CA3N
CA3P
ABFS
CA1L
CA1H
30 D
31 D
29 C
24 D
25 D
W
B
V
P
V
39 2A
45 2A
B
BR
Y
V
P
B
W
14 A
13 A
22 A
GSW2
CANH
CANL
L16(A)
Airbag ECU Assembly
B
W
BR
Y
L
R
V
L
R
V
Y
Y

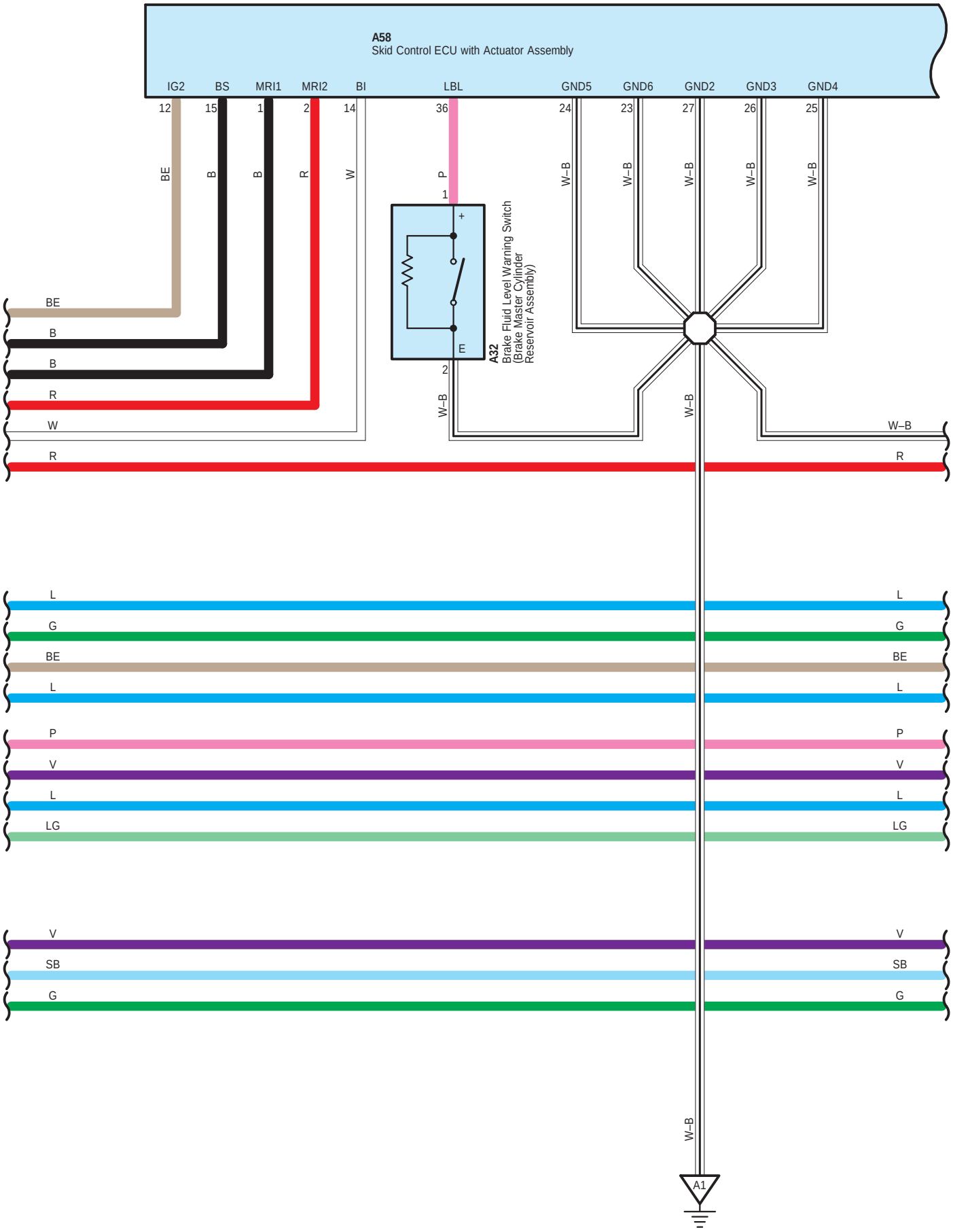

BR
Y
P
V
P
V
2 A
8 A
1 A
7 A
A68(A), L133(B)
Junction Connector
4 B
10 B
6 B
12 B
V
P
B
W
W
GR
SB
G
4 A
5 A
2 A
1 A
5 B
11 B
6 B
12 B
A67(A), L132(B)
Junction
Connector
V
P
9 B
8 B
L94(A), L95(B)
Junction
Connector
1 A
7 A
B
W
LG
L
B
W
B
W
L
LG
L
R
V
L
R
V
SB
G
Y
Y

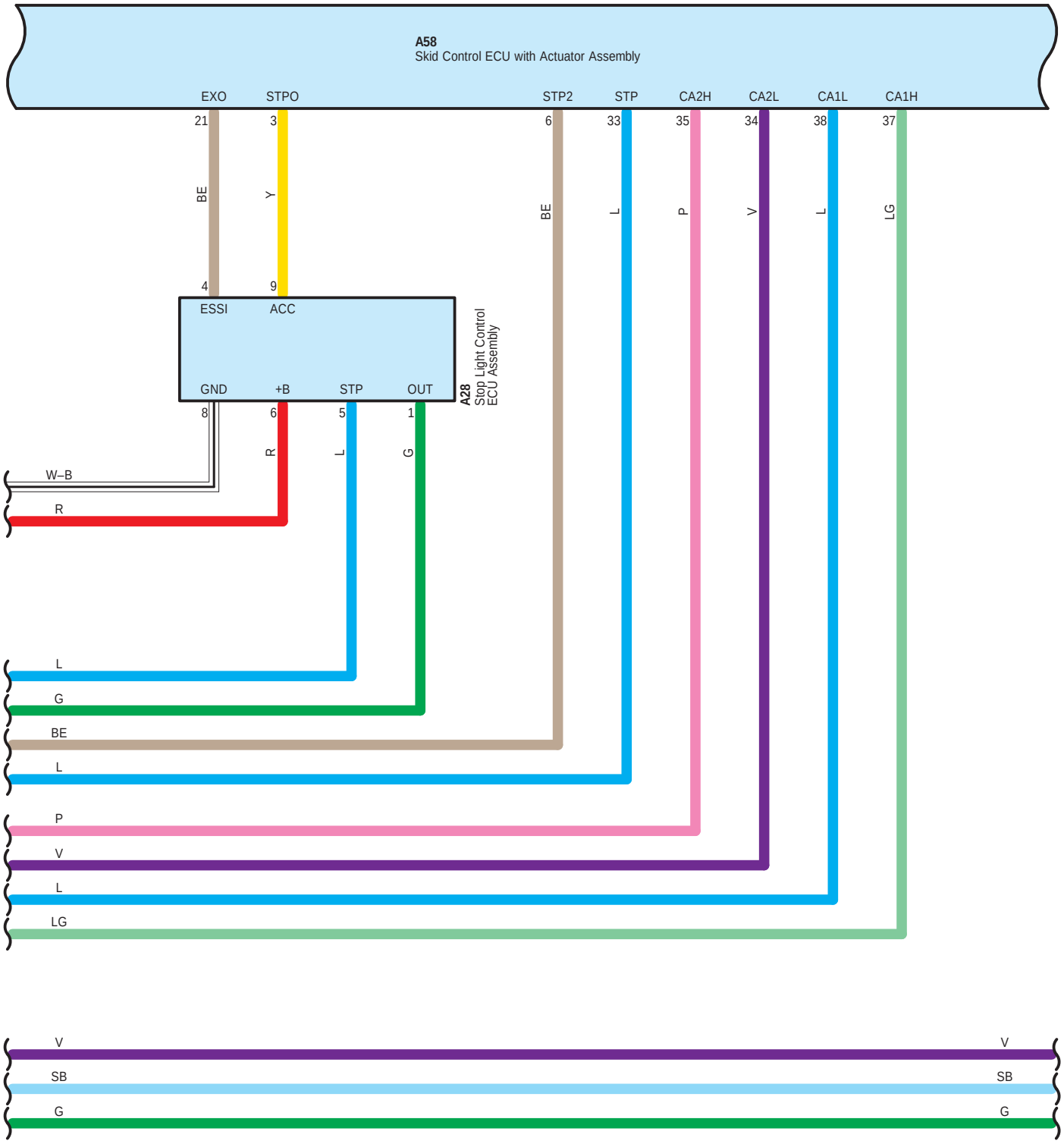

P
V
5 A
CANL
13 A
CANH
A57(A), D28(B)
ECM
G2O
48 B
CANN
4 A
CANP
12 A
W
B
P
V
Y
3 DA2
L17(A)
A/C Amplifier Assembly
CANH
CANL
11 A
12 A
10 A
4 A
3 A
9 A
9 B
3 B
A67(A), L132(B)
Junction
Connector
Y
R
B
W
1 A
3 A
4 A
2 A
5 B
3 B
L101(A), L102(B)
Junction
Connector
B
W
L
LG
L
R
V
SB
G
Y
P
V
L
LG
L
R
V
SB
G

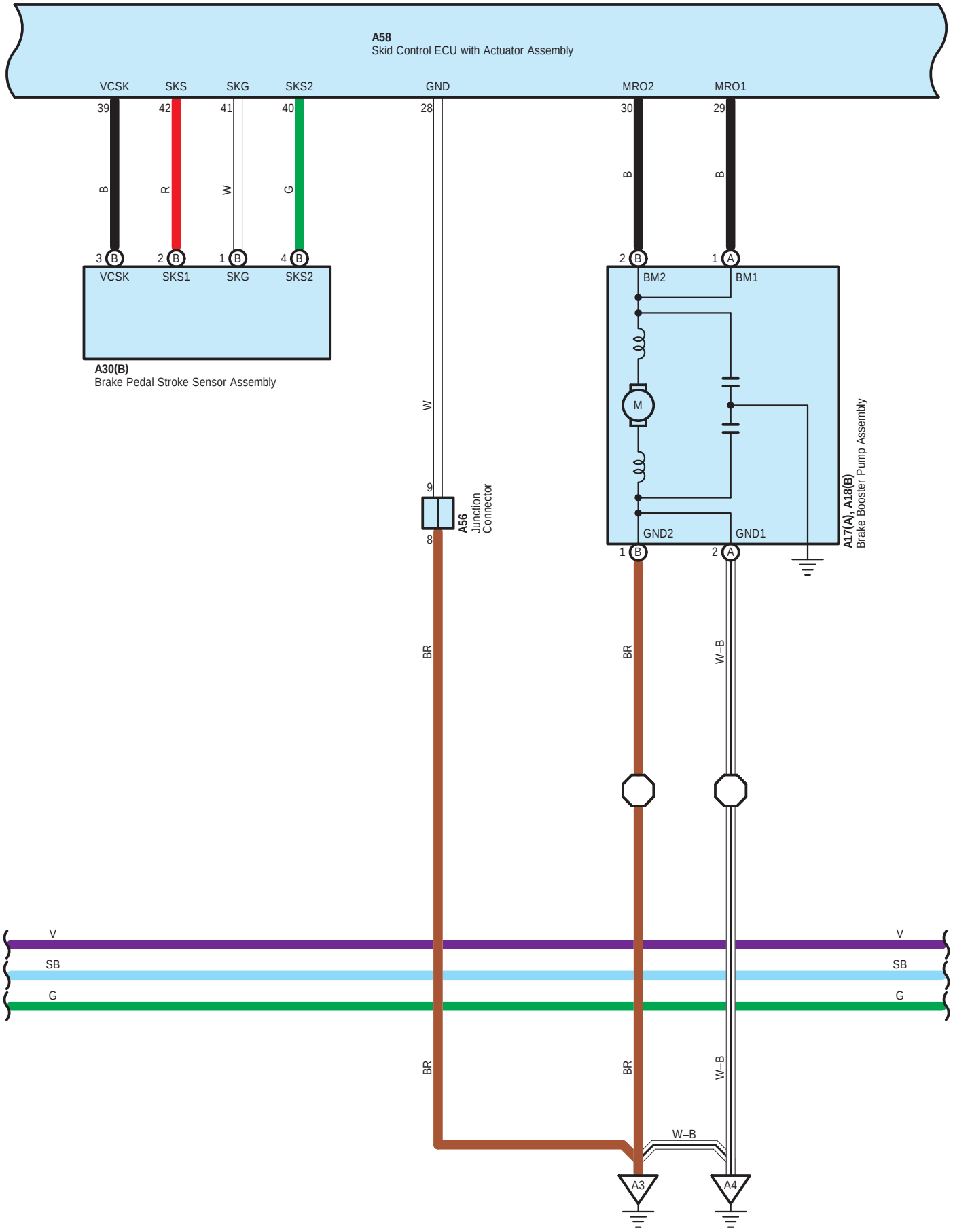

A57(A), D28(B)
ECM
GE01
M–
M+
VTA1
VTA2
VCTA
ETA
NE+
NE–
22
20
21
90
89
88
111
74
120
W–B
P
L
(Shielded)
Y
B
(Shielded)
R
G
B
W
(Shielded)
BR
BR
1
2
6
4
5
3
M–
M+
VTA
VTA2
VC
E2
D4
Throttle Body Assembly
BR
1
NE
NE–
2
D27
Crankshaft
Position Sensor
BR
BR
P
V
L
LG
L
R
V
SB
G
P
V
L
LG
L
R
V
SB
G
BR
D1

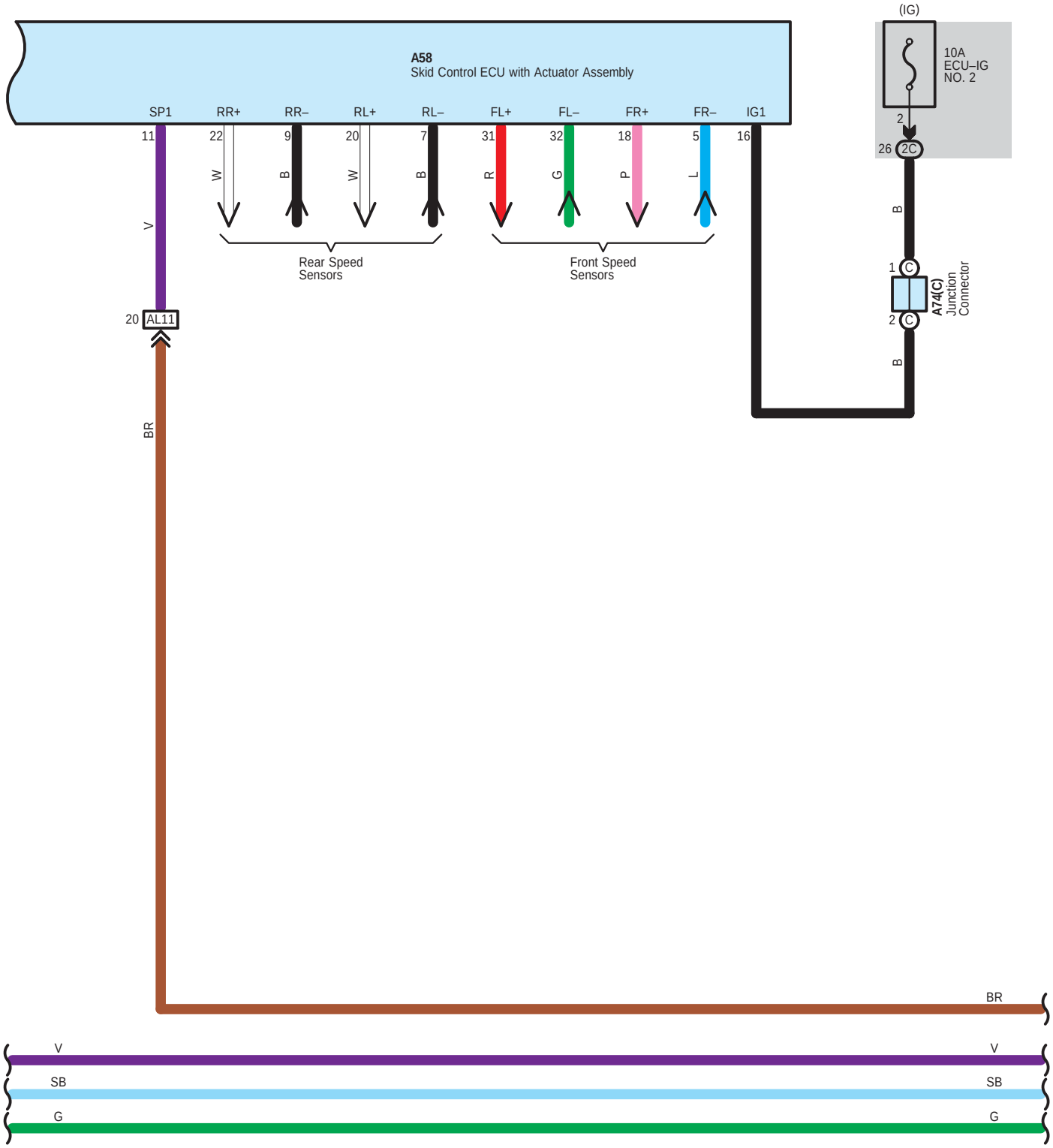

(BAT)
(IG)
10A STOP
10A IGN
2
2
32 2A
11 2C
12 2C
B
BE
R
8 B
9 B
L71(B) Junction Connector
R
18 AL11
GR
2
4
1
3
A26 Stop Light Switch Assembly
R
11 C
10 C
7 D
8 D
A50(C), A51(D) Junction Connector
L
L
L
L
7 C
11 D
A50(C), A51(D) Junction Connector
G
BE
L
G
BE
L
P
V
L
LG
L
R
V
SB
G
P
V
L
LG
V
SB
G

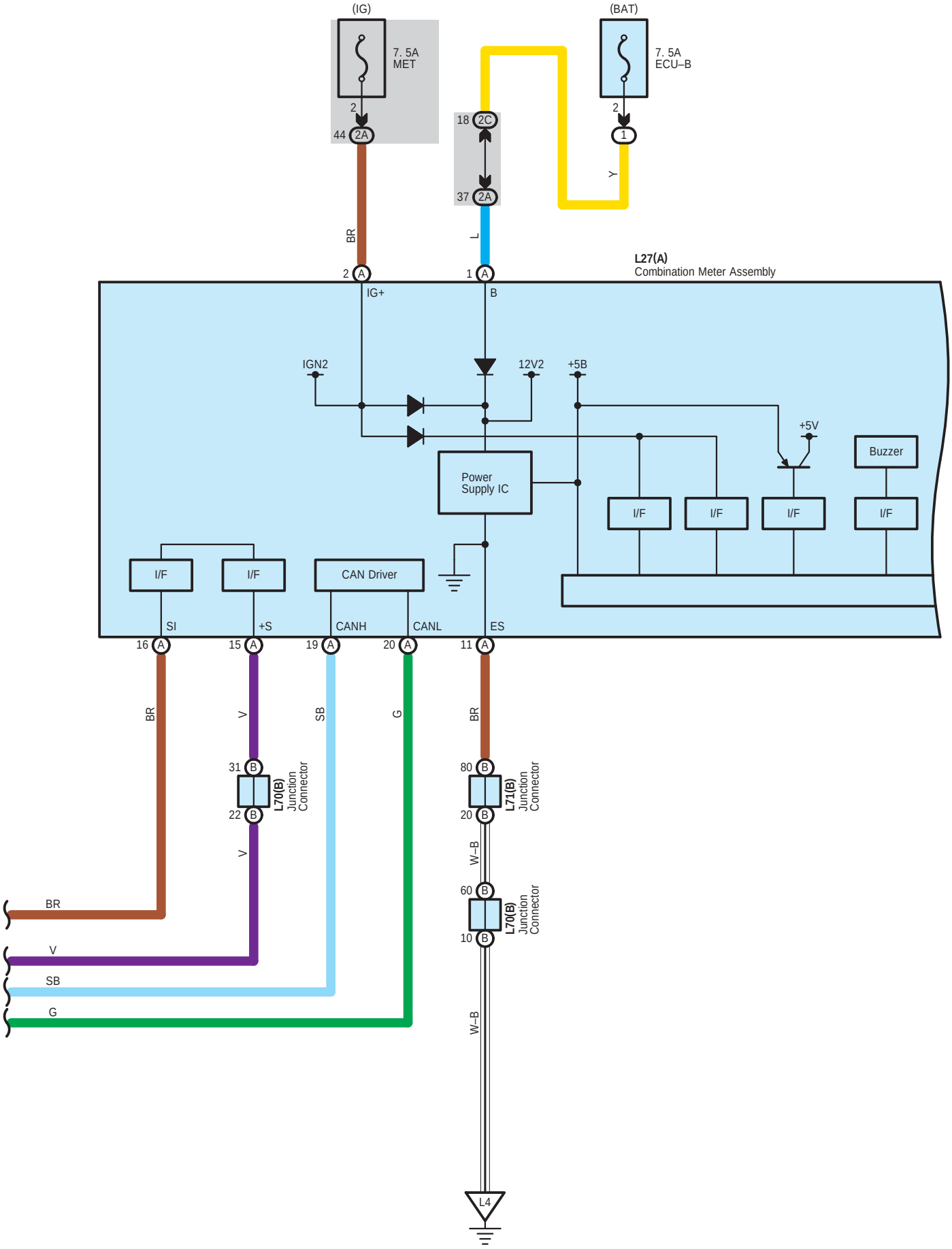

(BAT)
7. 5A
ABS MAIN
NO. 2
(BAT)
30A
ABS
MTR 2
(BAT)
30A
ABS
MTR 1
(BAT)
20A
ABS MAIN
NO. 1
(IG)
10A
IGN
2
1
14
2C
R
W
R
B
B
BE
BE
B
B
R
W
R
L
L
G
G
BE
BE
L
L
P
P
V
V
L
L
LG
LG
V
V
SB
SB
G
G


A58
Skid Control ECU with Actuator Assembly
IG2
BS
MRI1
MRI2
BI
LBL
GND5
GND6
GND2
GND3
GND4
12
15
1
2
14
36
24
23
27
26
25
BE
B
B
R
W
P
W–B
1
2
E
+
A32
Brake Fluid Level Warning Switch
(Brake Master Cylinder
Reservoir Assembly)
L
G
BE
L
P
V
L
LG
SB
A1

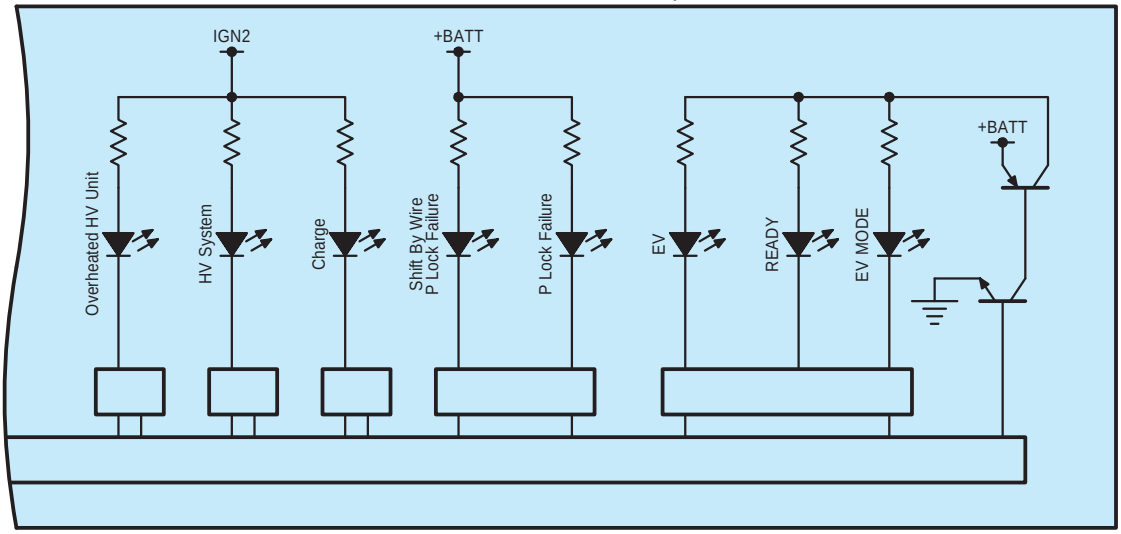

A58
Skid Control ECU with Actuator Assembly
EXO
STPO
STP2
STP
CA2H
CA2L
CA1L
CA1H
21
3
6
33
35
34
38
37
BE
Y
BE
L
P
V
L
LG
4
9
ESSI
ACC
GND
+B
STP
OUT
A28
Stop Light Control
ECU Assembly
8
6
5
1
W–B
R
L
G
R
L
G
BE
L
P
V
L
LG
V
SB
G
V
SB
G


A58
Skid Control ECU with Actuator Assembly
VCSK
SKS
SKG
SKS2
GND
MRO2
MRO1
39
42
41
40
28
30
29
B
R
W
G
B
B
3 B
2 B
1 B
4 B
2 B
1 A
VCSK
SKS1
SKG
SKS2
BM2
BM1
M
GND2
GND1
1 B
2 A
A30(B)
Brake Pedal Stroke Sensor Assembly
A17(A), A18(B)
Brake Booster Pump Assembly
W
9
8
A56
Junction
Connector
BR
BR
W–B
BR
BR
W–B
W–B
V
SB
G
V
SB
G
A3
A4


A58
Skid Control ECU with Actuator Assembly
SP1
RR+
RR–
RL+
RL–
FL+
FL–
FR+
FR–
IG1
11
22
9
20
7
31
32
18
5
16
W
B
W
B
R
G
P
L
V
Rear Speed Sensors
Front Speed Sensors
(IG)
10A
ECU–IG
NO. 2
2
26
2C
B
1
C
A74(C)
Junction
Connector
2
C
B
20
AL11
BR
BR
V
V
SB
SB
G
G


(IG)
7. 5A
MET
2
44 2A
(BAT)
7. 5A
ECU–B
2
1
18 2C
37 2A
Y
BR
L
2 A
1 A
L27(A)
Combination Meter Assembly
IG+
B
IGN2
12V2
+5B
+5V
Buzzer
Power
Supply IC
I/F
I/F
I/F
I/F
I/F
I/F
CAN Driver
SI
+S
CANH
CANL
ES
16 A
15 A
19 A
20 A
11 A
BR
V
SB
G
BR
31 B
22 B
L70(B)
Junction
Connector
V
80 B
20 B
L71(B)
Junction
Connector
W–B
60 B
10 B
L70(B)
Junction
Connector
W–B
BR
V
SB
G
L4

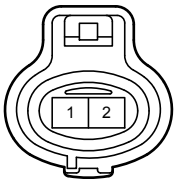
L27(A)
Combination Meter Assembly



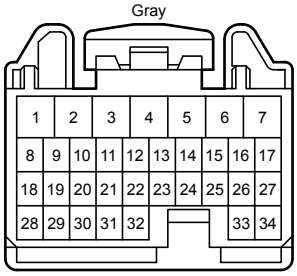
A 17
Gray



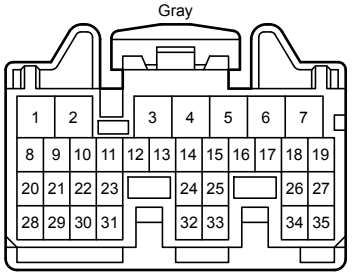
A 18
White



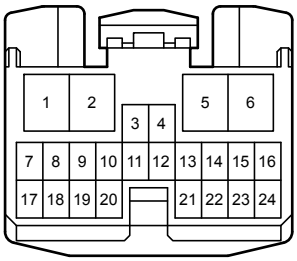
A 21
Gray



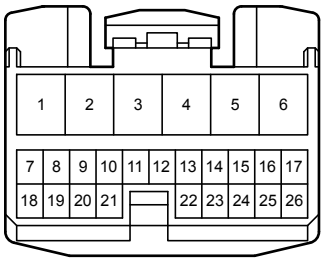
A 22
Gray



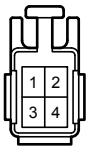
A 23
White



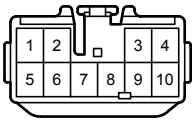
A 24
White



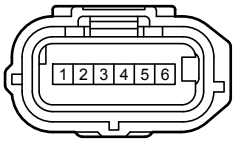
A 26
White



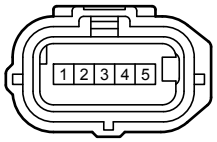
A 28
Black



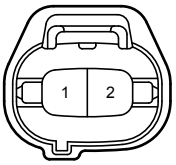
A 29
Black



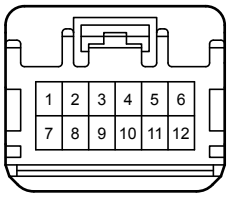
A 30
Black



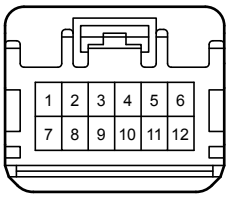
A 32
Black



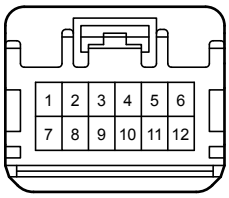
A 50
White



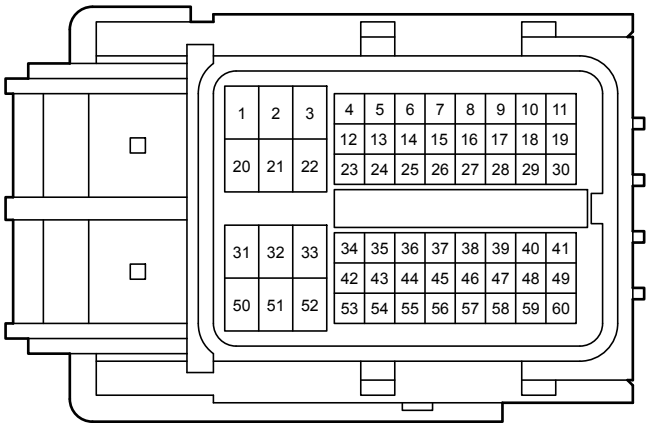
A 51
White



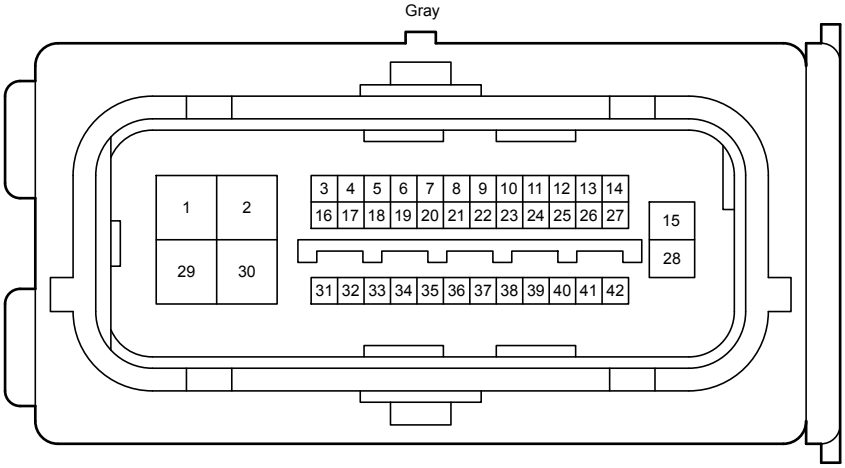
A 56
White



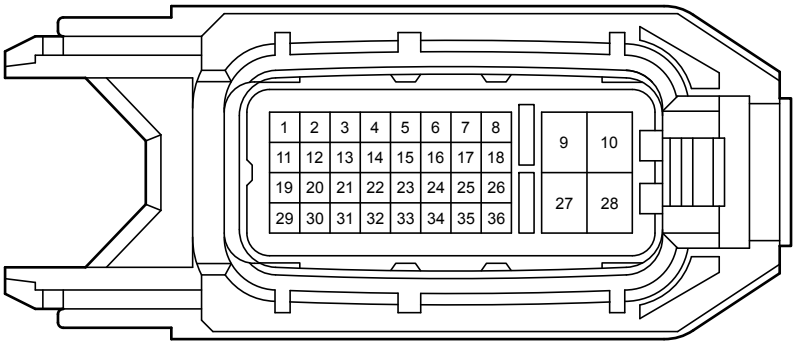
A 57
Black



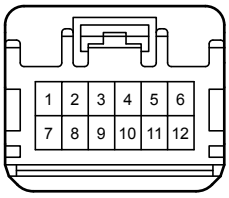
A 58
Gray



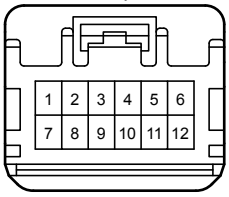
A 59
Black



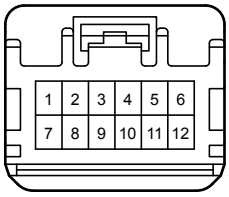
A 67
Blue



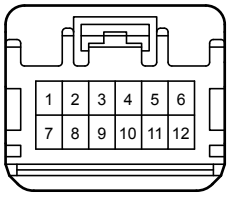
A 68
Gray



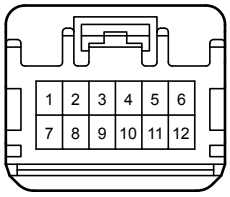
A 72
Black



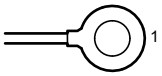
A 73
Black



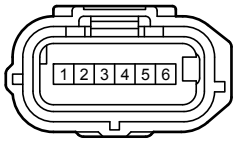
A 74
Black



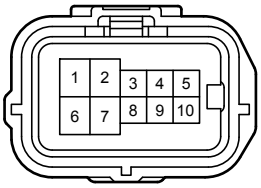
B 1



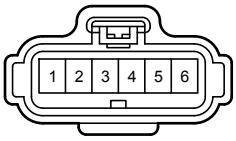
D 1
Black



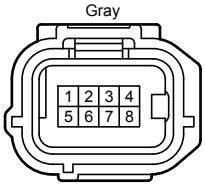
D 2
Black



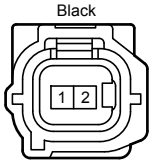
D 4
Black



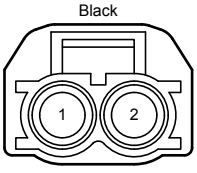
D 7
Gray



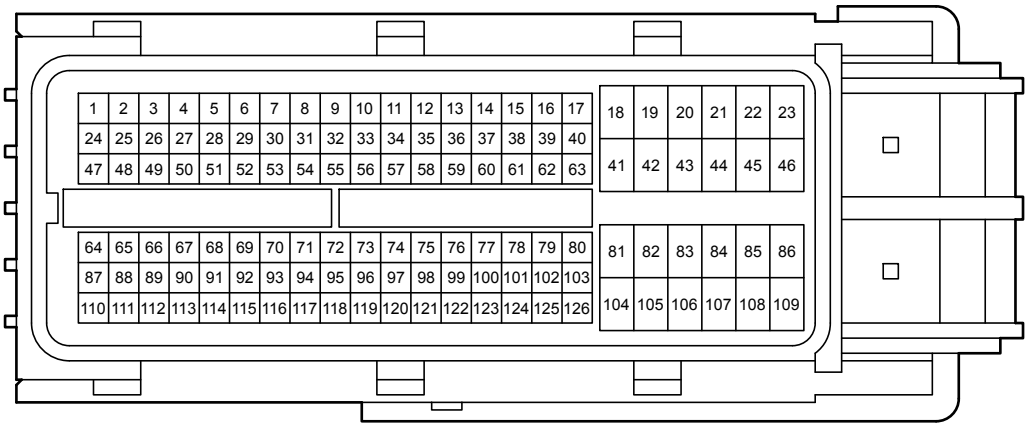
D 8
Black



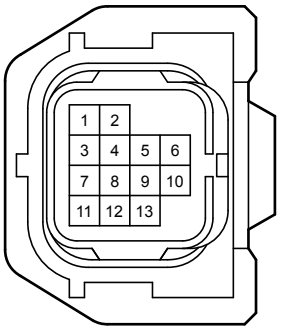
D 27
Black



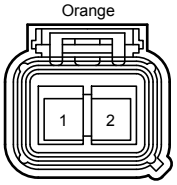
D 28
Black



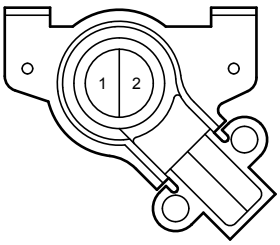
D 29
Black



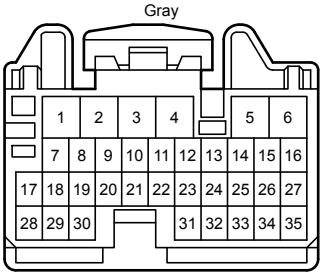
E 1
Orange



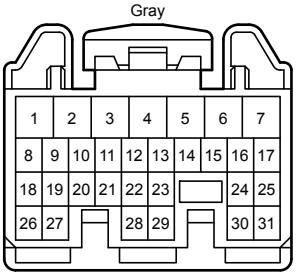
E 3
White



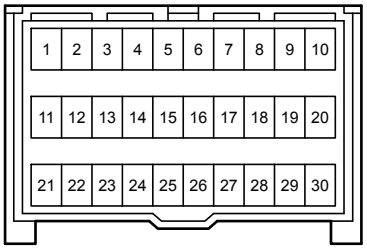
L 5
Gray



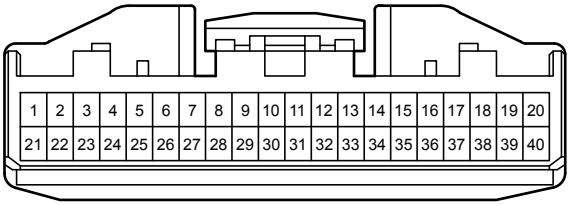
L 6
Gray



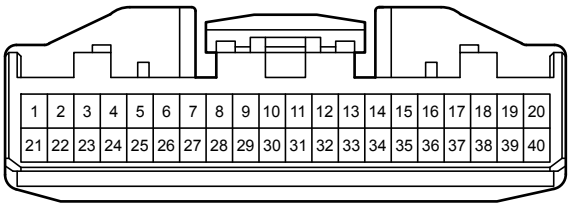
L 16
Yellow



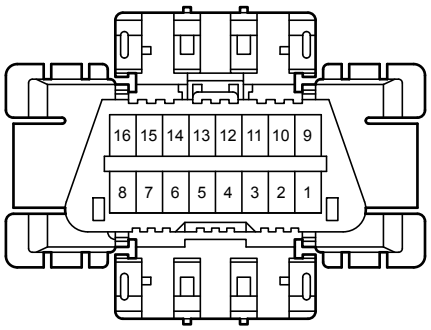
L 17
White



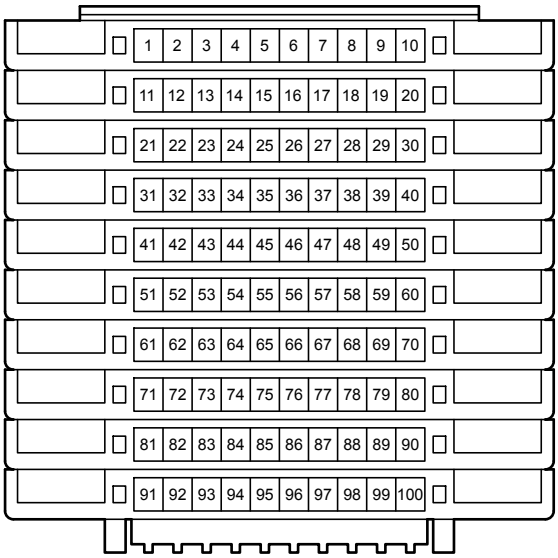
L 27
White



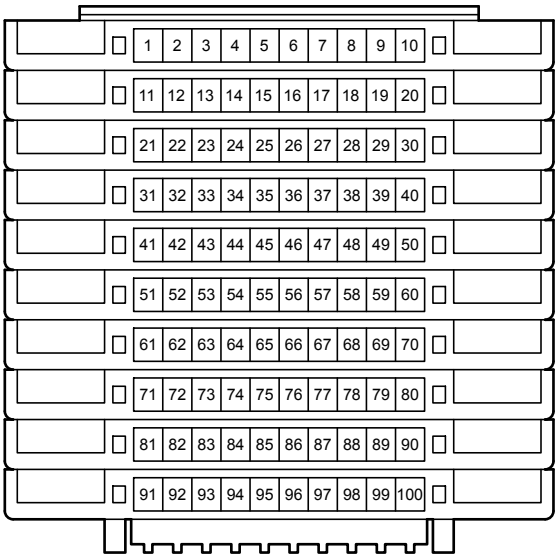
L 61
White



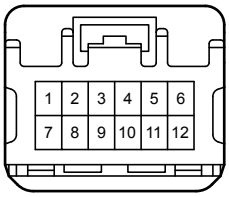
L 70
White



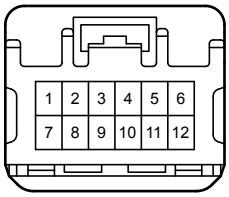
L 71
White



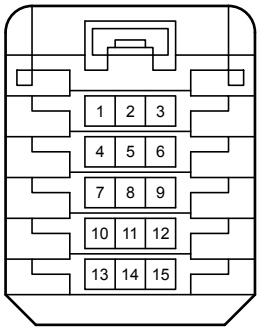
L 87
White



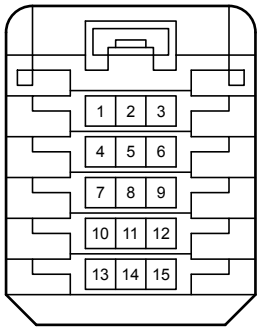
L 92
White



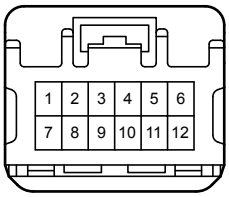
L 94
White



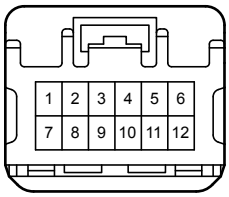
L 95
White



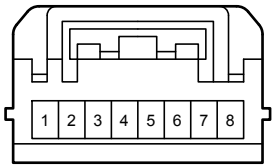
L101
White



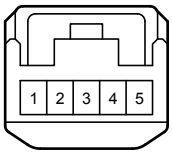
L102
White



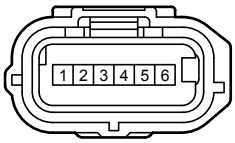
L124
Black



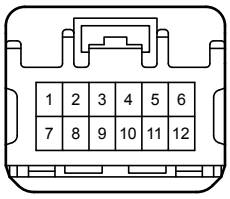
L126
White



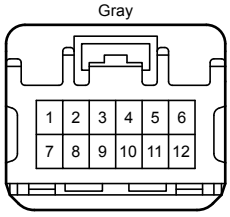
L127
Black



L132
Blue



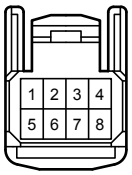
L133
Gray



L143
White



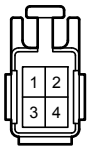
L144
White



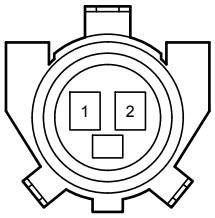
S 17
Black



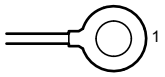
S 30
White



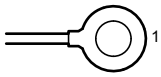
T 1
White



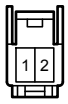
T 5



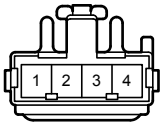
T 6



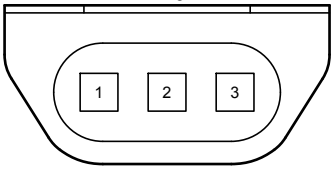
c 5
White



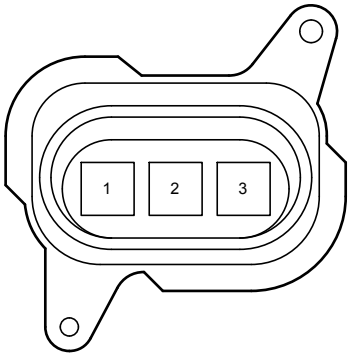
c 6
White



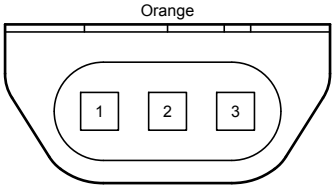
e 1
Orange



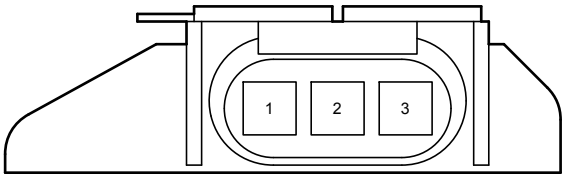
e 2
Black



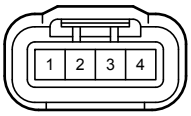
f 1
Orange



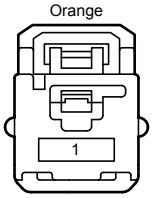
f 2
Black



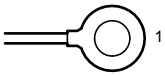
g 1
Black



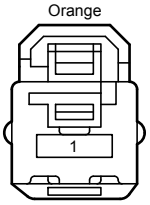
h 3
Orange



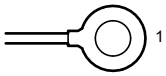
h 4



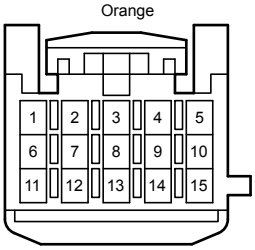
k 3
Orange



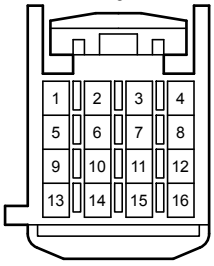
k 4



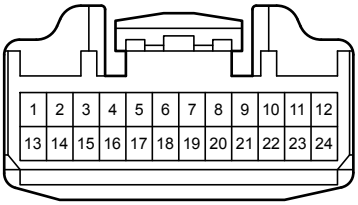
z 22
Orange



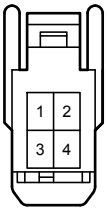
z 23
Orange



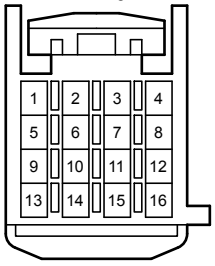
z 24
White



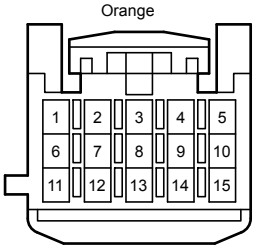
z 25
White



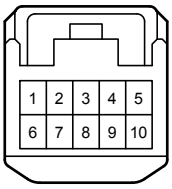
z 26
Orange



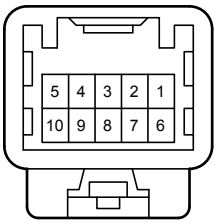
z 27
Orange



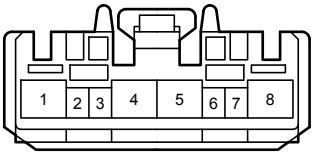
z 28
White



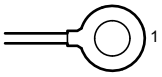
z 29
White



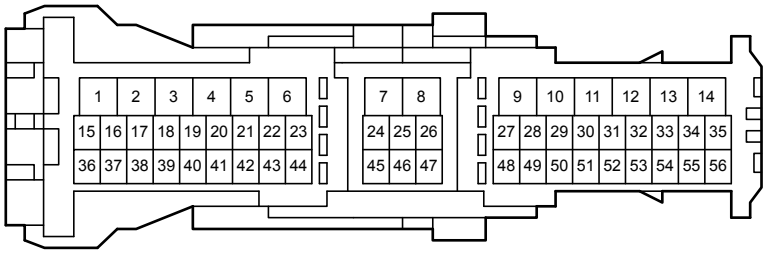
1A
White



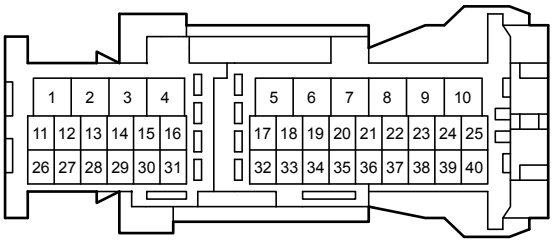
1F



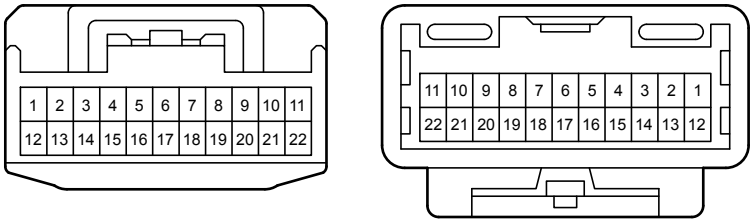
2A
White



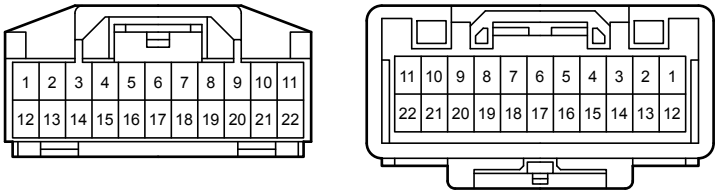
2C
White



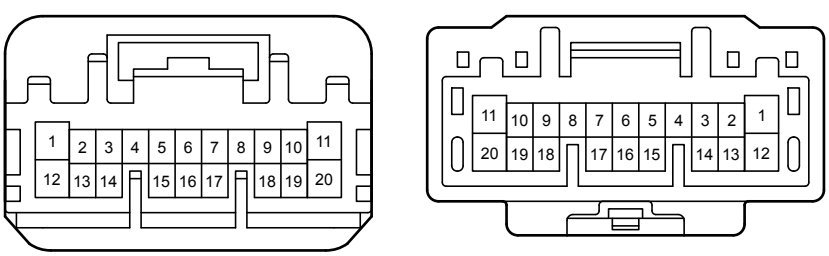
AL10
Blue



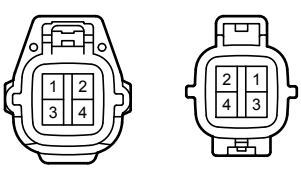
AL11
White



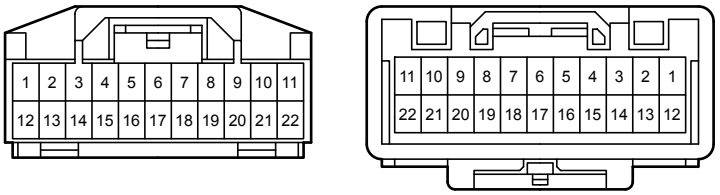
AS1
White



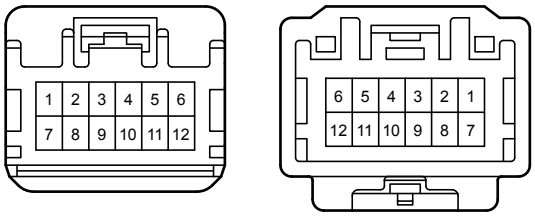
Ag1
Black



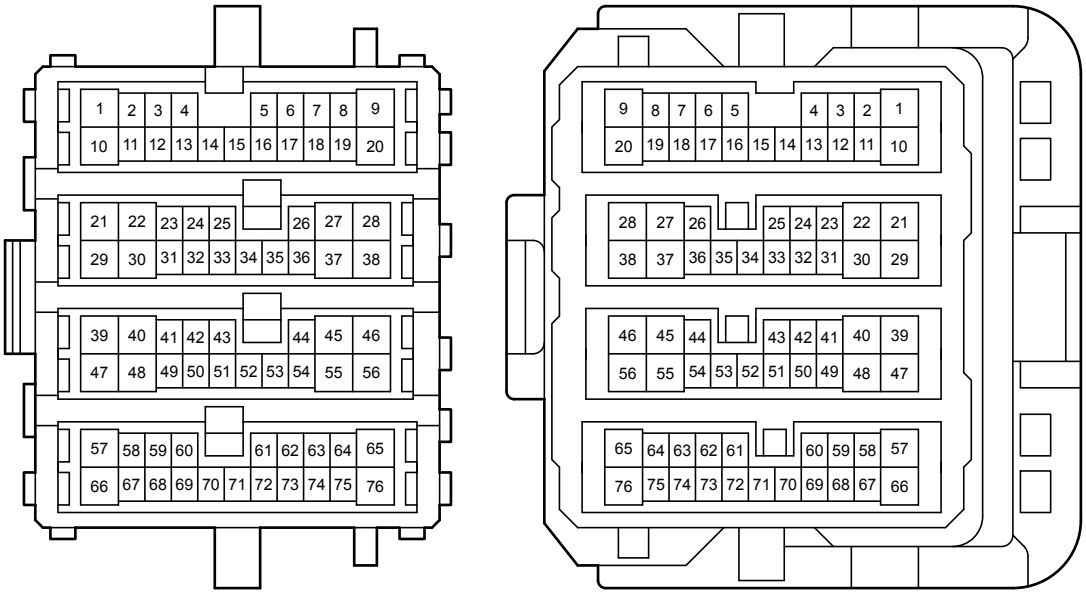
DA1
White



DA2
White



LS1
White



Lc1
Gray

