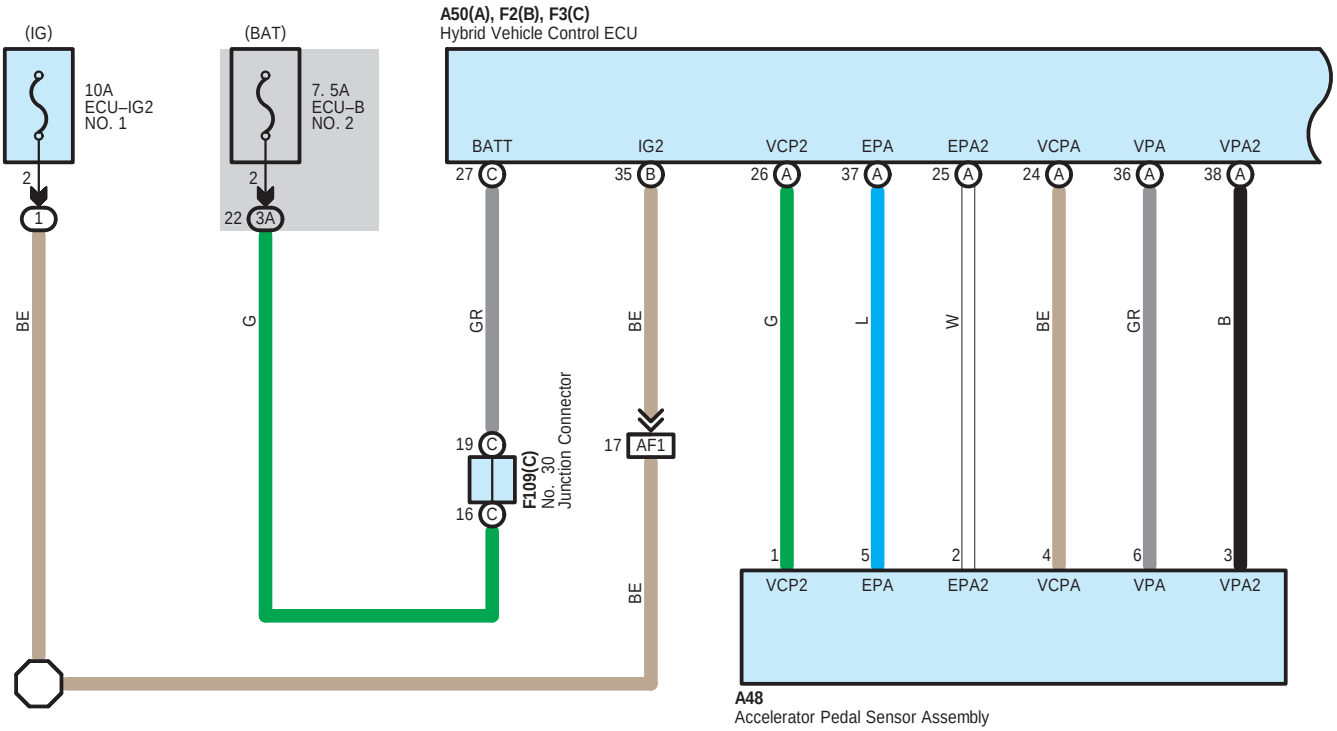
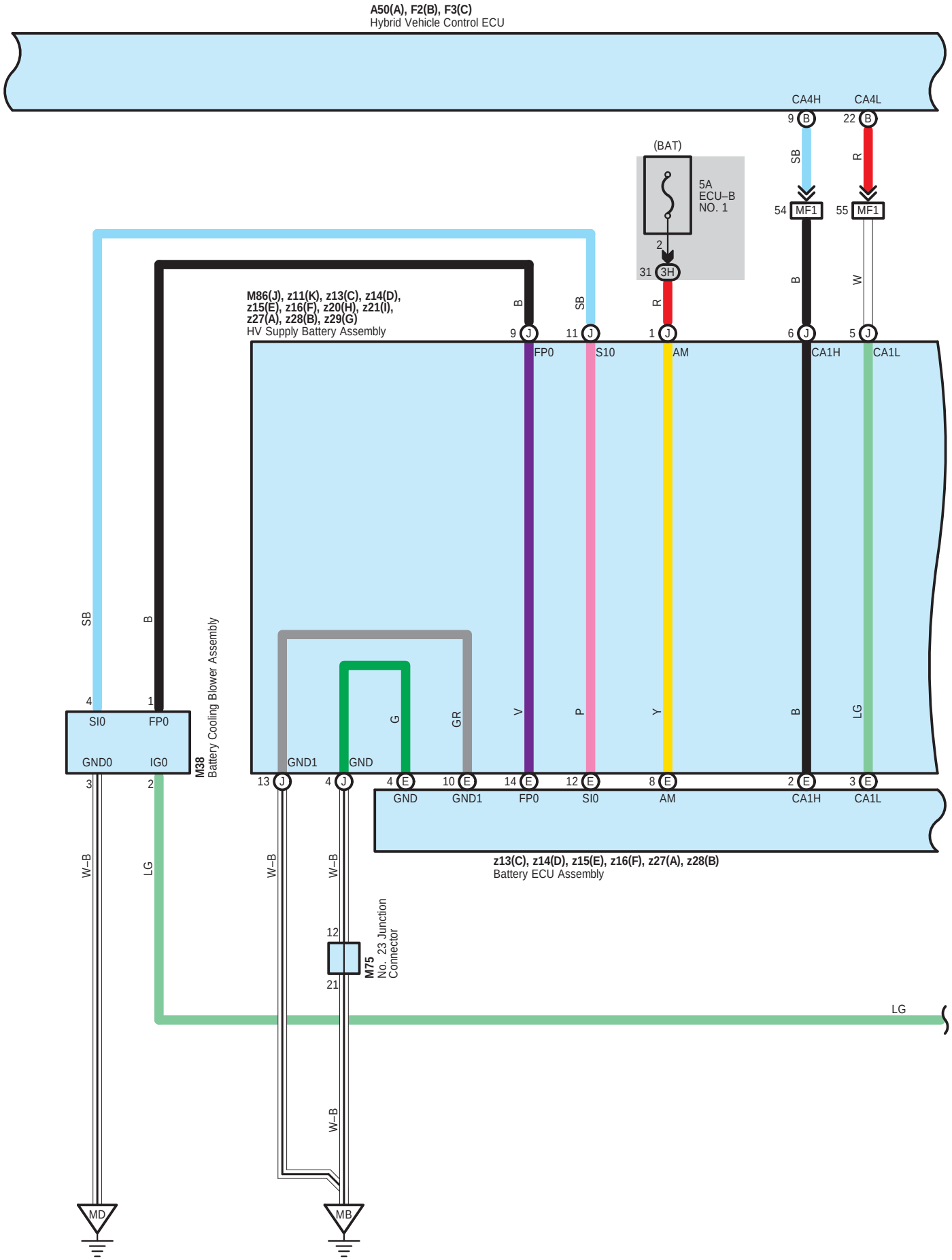
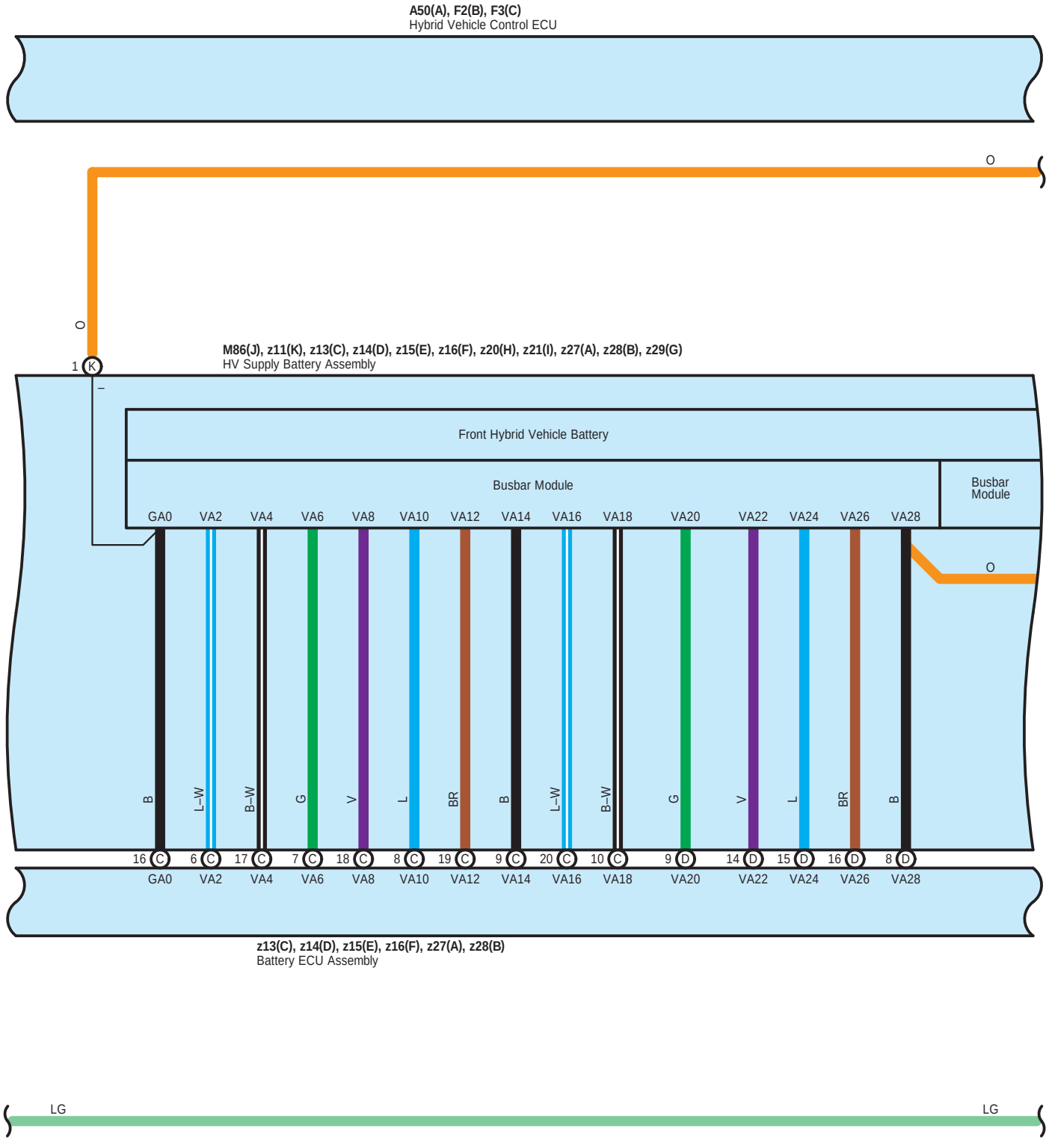
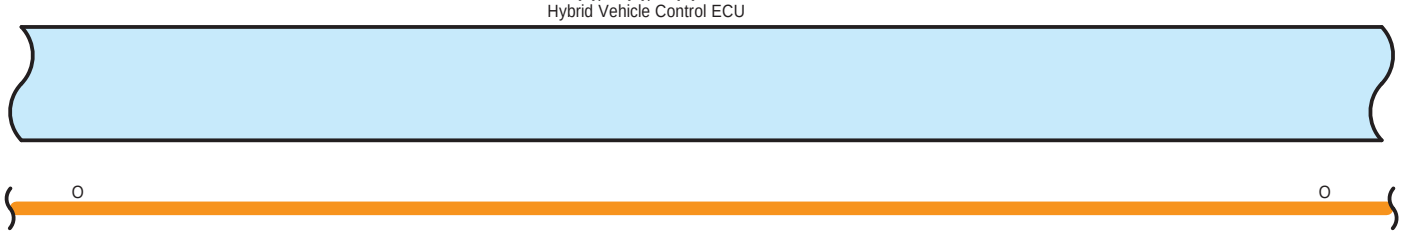

(IG)
(BAT)
10A
ECU–IG2
NO. 1
7. 5A
ECU–B
NO. 2
2
1
22
3A
BE
G
A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
BATT
IG2
VCP2
EPA
EPA2
VCPA
VPA
VPA2
27 C
35 B
26 A
37 A
25 A
24 A
36 A
38 A
GR
BE
G
L
W
BE
GR
B
19 C
16 C
F109(C)
No. 30
Junction Connector
17 AF1
1
5
2
4
6
3
VCP2
EPA
EPA2
VCPA
VPA
VPA2
A48
Accelerator Pedal Sensor Assembly

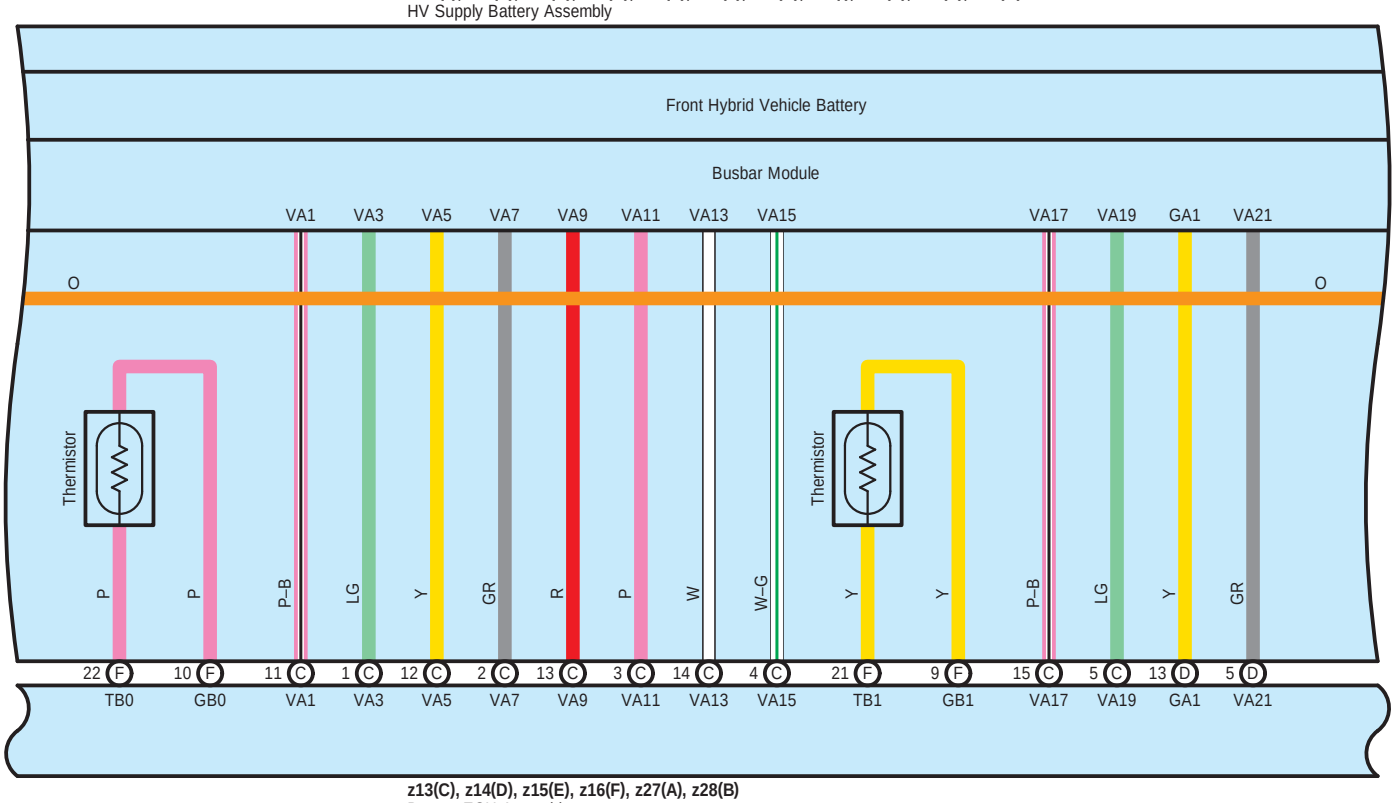

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
CA4H
CA4L
9 B
22 B
SB
R
(BAT)
5A
ECU–B
NO. 1
2
31 3H
54 MF1
55 MF1
B
W
M86(J), z11(K), z13(C), z14(D),
z15(E), z16(F), z20(H), z21(I),
z27(A), z28(B), z29(G)
HV Supply Battery Assembly
9 J
11 J
1 J
6 J
5 J
FP0
S10
AM
CA1H
CA1L
SB
B
4
1
SI0
FP0
GND0
IG0
M38
Battery Cooling Blower Assembly
G
GR
V
P
Y
B
LG
GND1
GND
13 J
4 J
4 E
10 E
14 E
12 E
8 E
2 E
3 E
GND
GND1
FP0
SI0
AM
CA1H
CA1L
z13(C), z14(D), z15(E), z16(F), z27(A), z28(B)
Battery ECU Assembly
W–B
LG
3
2
12
21
M75
No. 23 Junction
Connector
LG
MD
MB


A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
O
O
1 K
M86(J), z11(K), z13(C), z14(D), z15(E), z16(F), z20(H), z21(I), z27(A), z28(B), z29(G)
HV Supply Battery Assembly
Front Hybrid Vehicle Battery
Busbar Module
Busbar Module
GA0 VA2 VA4 VA6 VA8 VA10 VA12 VA14 VA16 VA18 VA20 VA22 VA24 VA26 VA28
O
B L–W B–W G V L BR B L–W B–W G V L BR B
16 C 6 C 17 C 7 C 18 C 8 C 19 C 9 C 20 C 10 C 9 D 14 D 15 D 16 D 8 D
GA0 VA2 VA4 VA6 VA8 VA10 VA12 VA14 VA16 VA18 VA20 VA22 VA24 VA26 VA28
z13(C), z14(D), z15(E), z16(F), z27(A), z28(B)
Battery ECU Assembly
LG
LG

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU

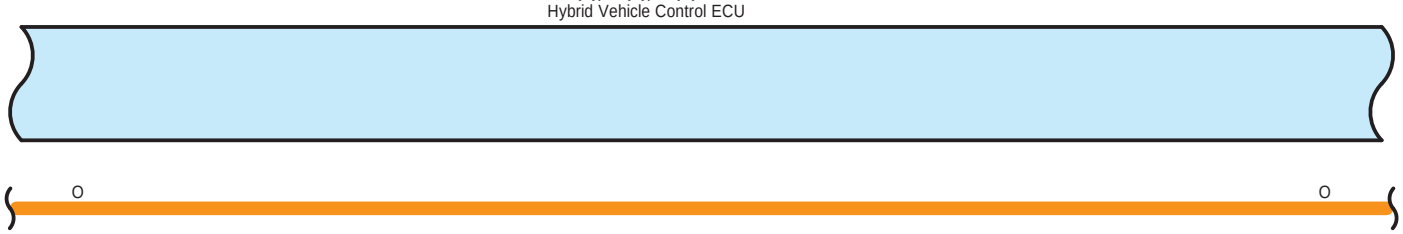


M86(J), z11(K), z13(C), z14(D), z15(E), z16(F), z20(H), z21(I), z27(A), z28(B), z29(G)
HV Supply Battery Assembly

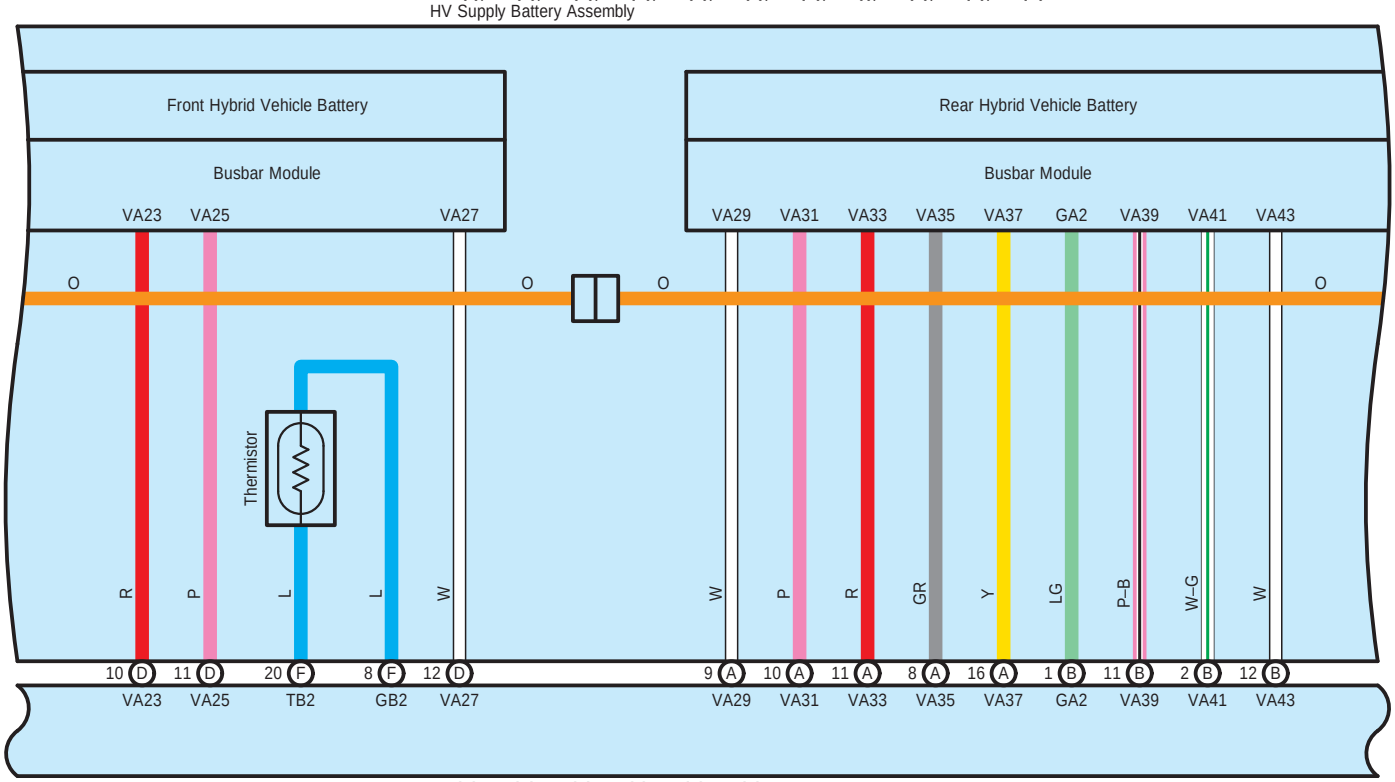


z13(C), z14(D), z15(E), z16(F), z27(A), z28(B)
Battery ECU Assembly

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU

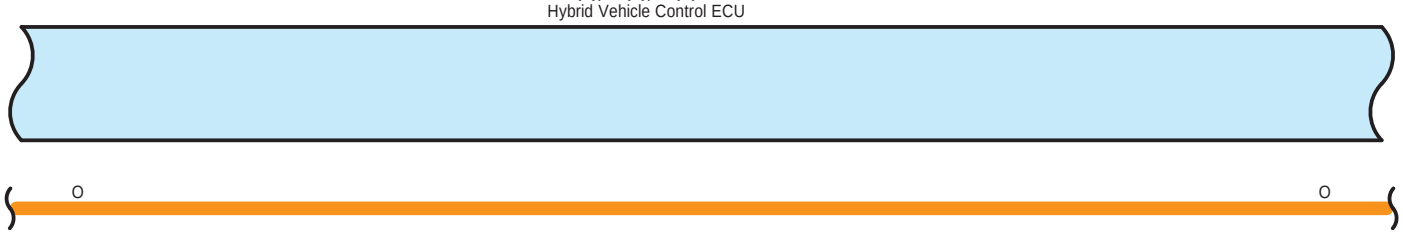


M86(J), z11(K), z13(C), z14(D), z15(E), z16(F), z20(H), z21(I), z27(A), z28(B), z29(G)
HV Supply Battery Assembly

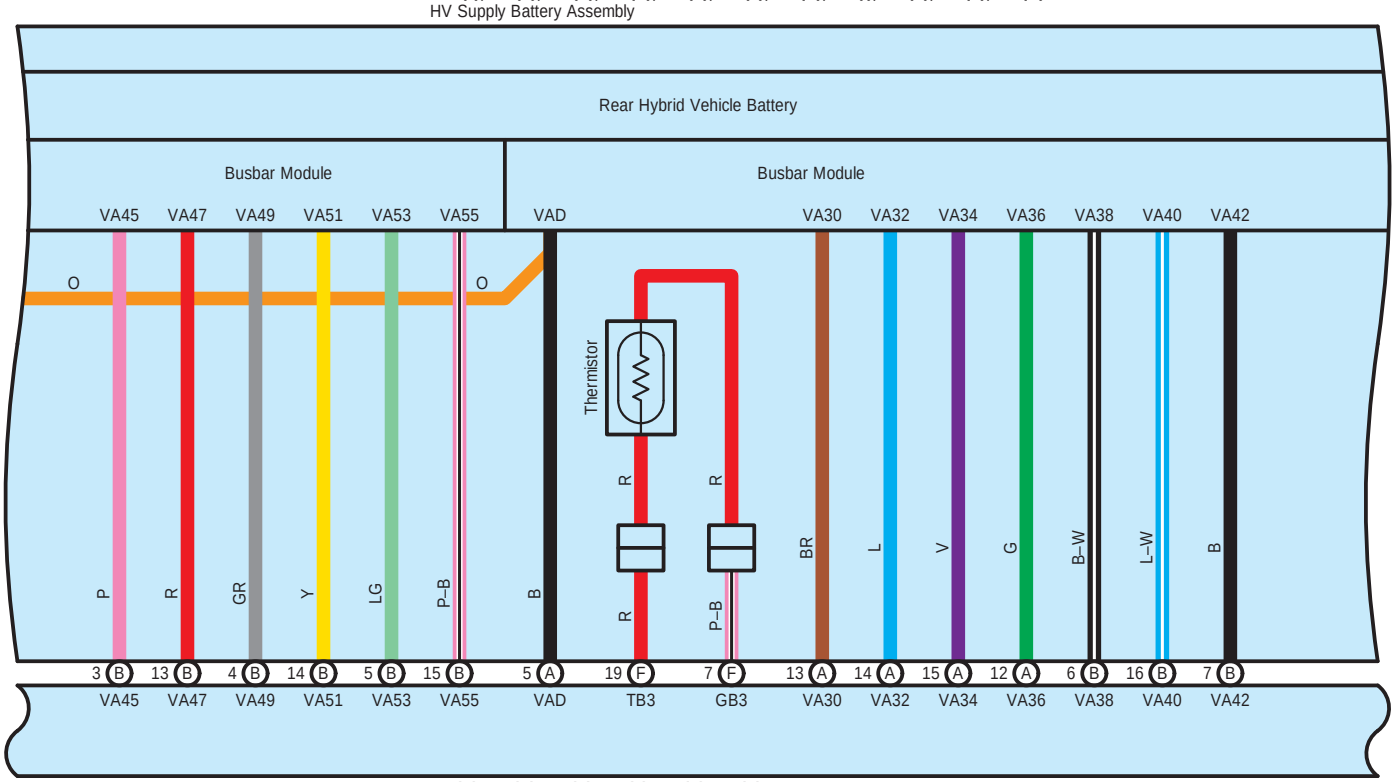


z13(C), z14(D), z15(E), z16(F), z27(A), z28(B)
Battery ECU Assembly

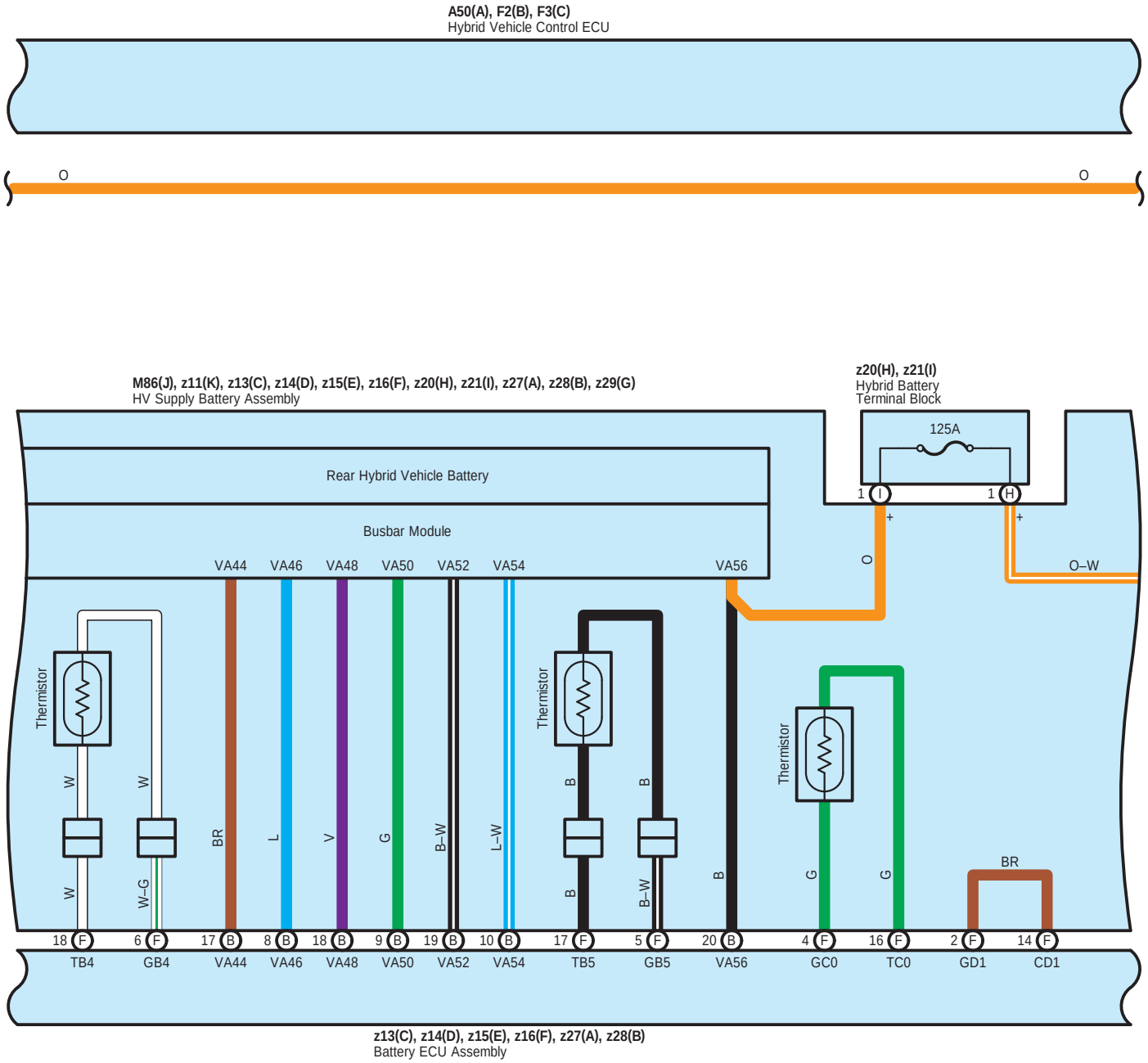
A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU

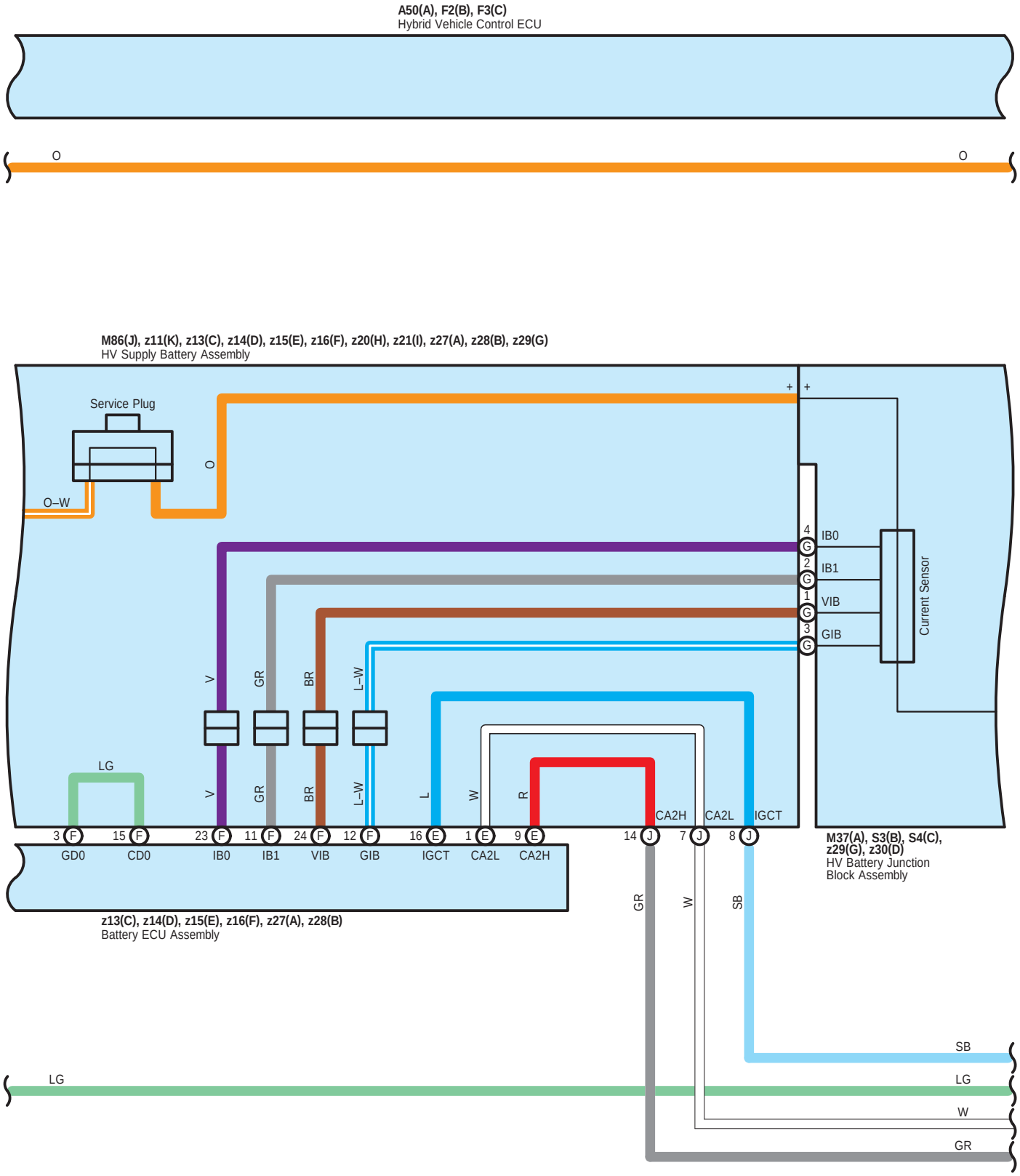


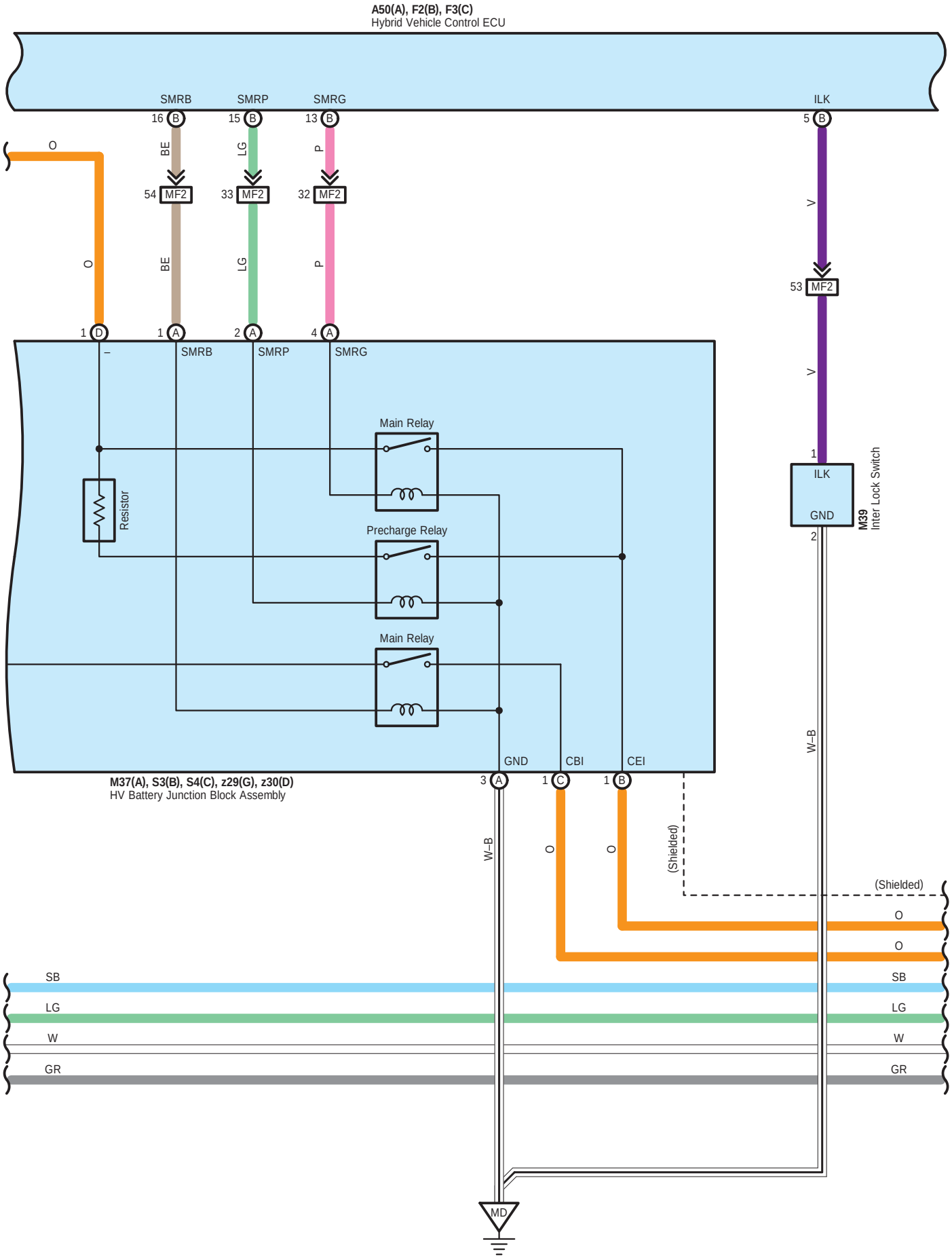
M86(J), z11(K), z13(C), z14(D), z15(E), z16(F), z20(H), z21(I), z27(A), z28(B), z29(G)
HV Supply Battery Assembly

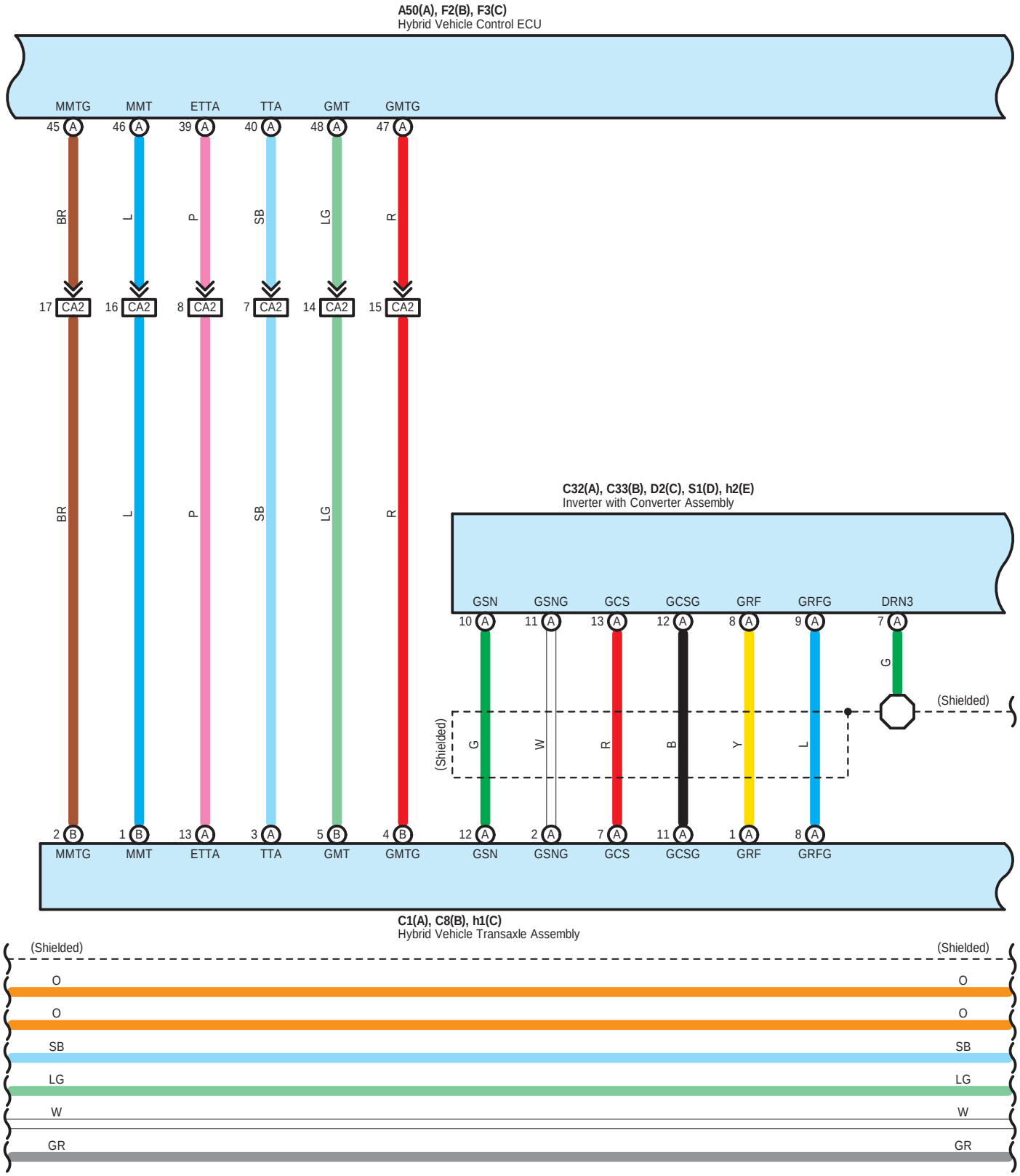


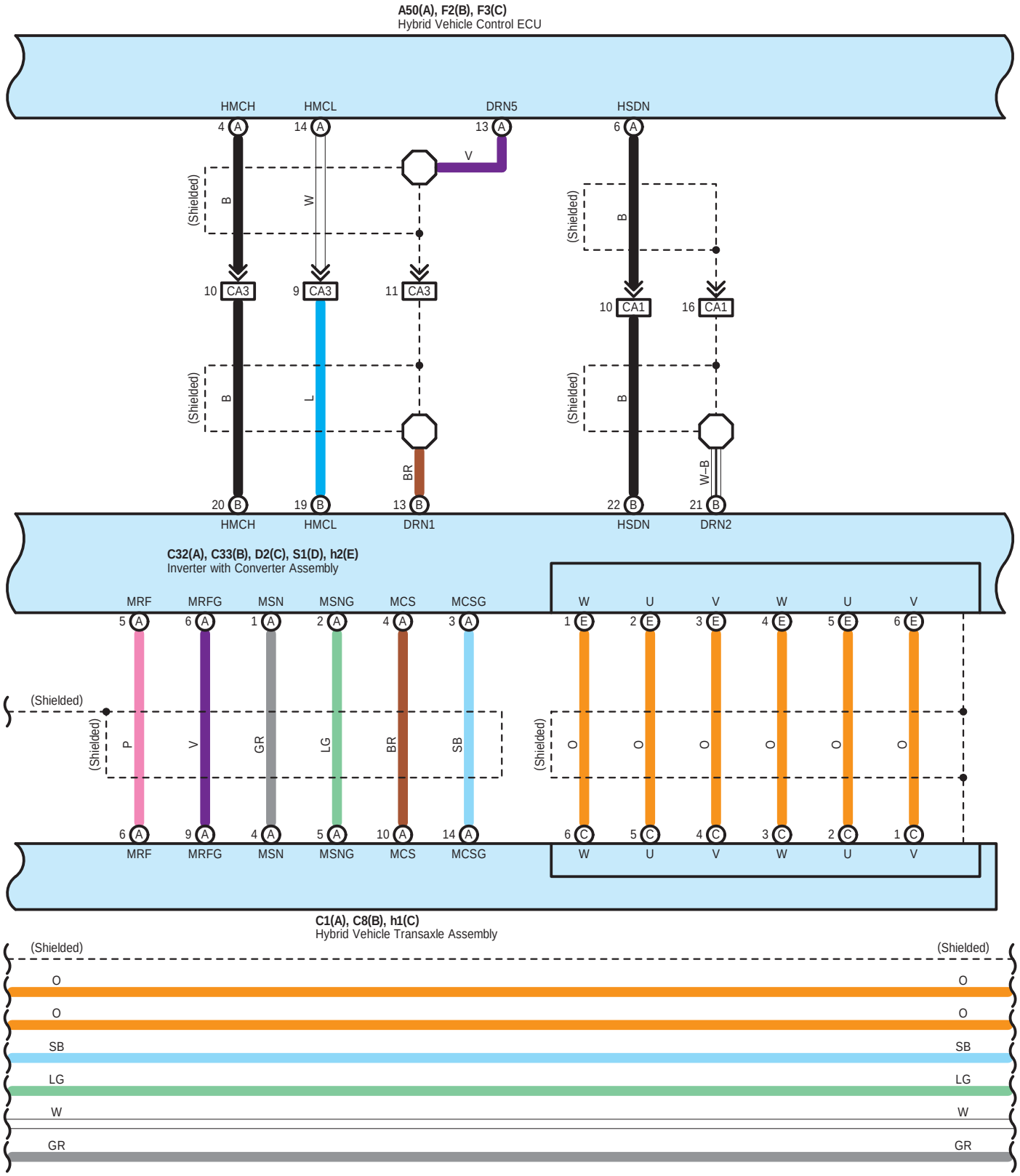
z13(C), z14(D), z15(E), z16(F), z27(A), z28(B)
Battery ECU Assembly

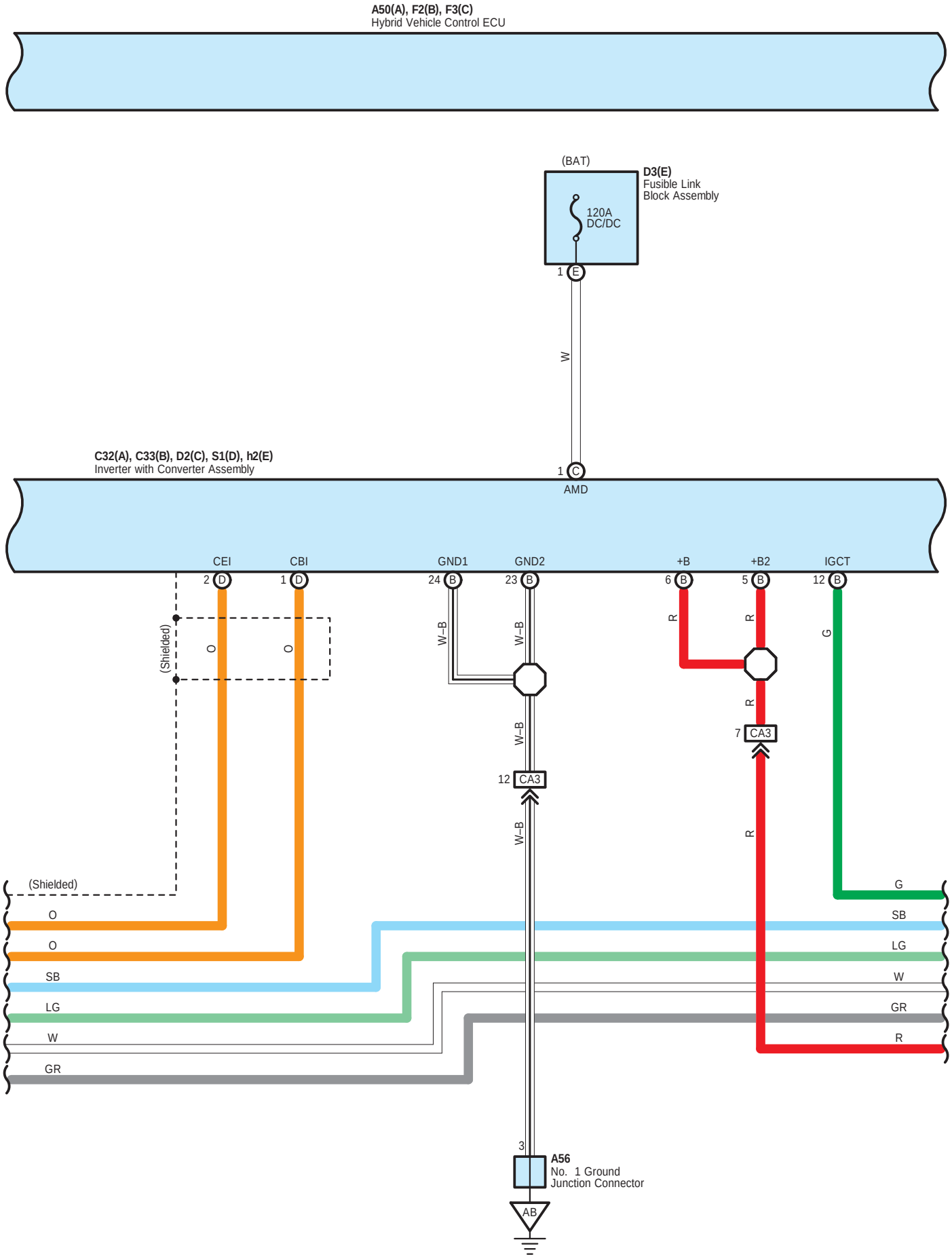

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
O
O
M86(J), z11(K), z13(C), z14(D), z15(E), z16(F), z20(H), z21(I), z27(A), z28(B), z29(G)
HV Supply Battery Assembly
z20(H), z21(I)
Hybrid Battery
Terminal Block
125A
Rear Hybrid Vehicle Battery
Busbar Module
VA44 VA46 VA48 VA50 VA52 VA54 VA56
1 I + O
1 H + O–W
Thermistor
W W W
W–G
BR L V G B–W L–W
B B B
B–W
B
Thermistor
Thermistor
G G
BR
18 F TB4
6 F GB4
17 B VA44
8 B VA46
18 B VA48
9 B VA50
19 B VA52
10 B VA54
17 F TB5
5 F GB5
20 B VA56
4 F GC0
16 F TC0
2 F GD1
14 F CD1
z13(C), z14(D), z15(E), z16(F), z27(A), z28(B)
Battery ECU Assembly
LG
LG

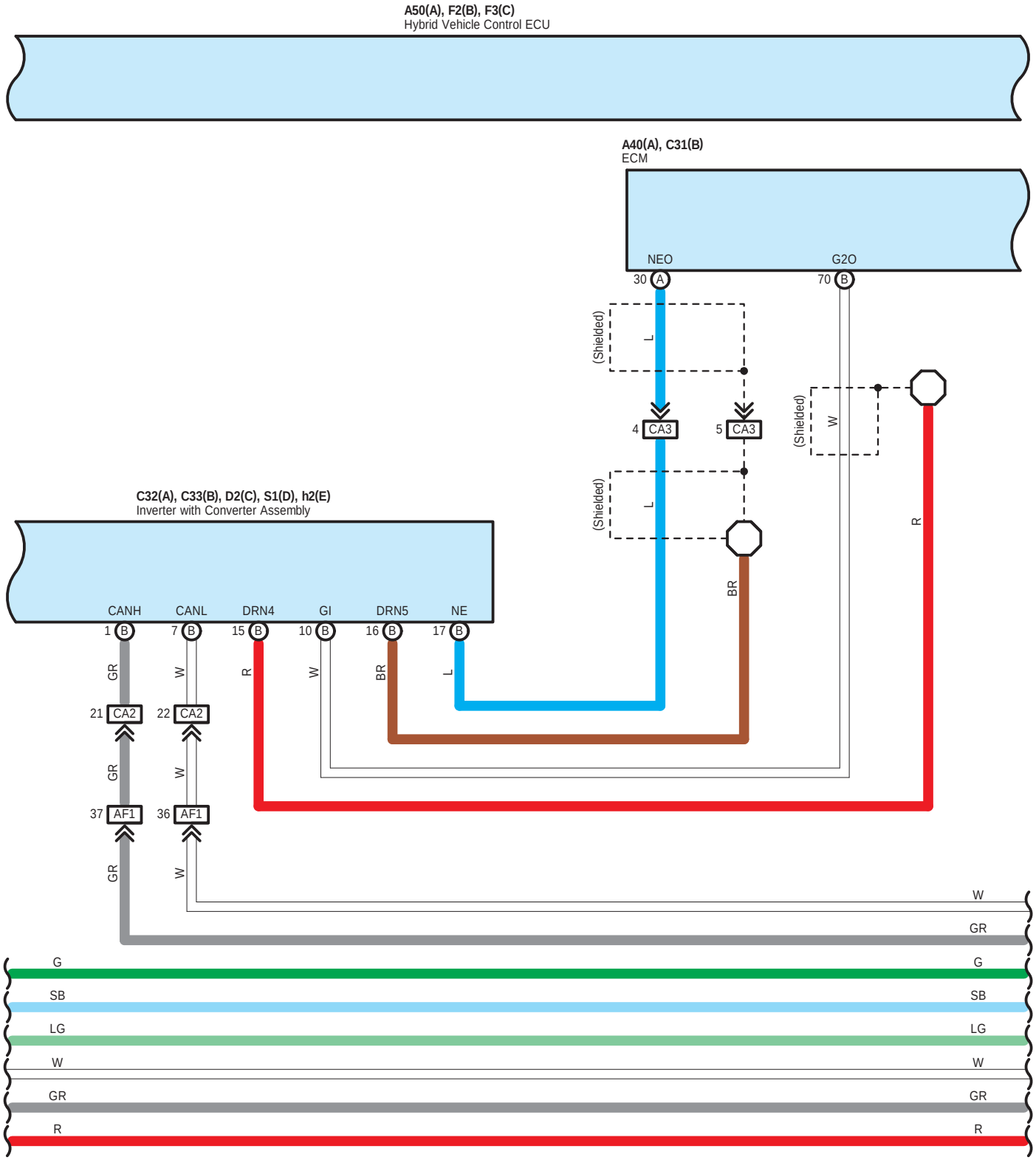

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
O
O
M86(J), z11(K), z13(C), z14(D), z15(E), z16(F), z20(H), z21(I), z27(A), z28(B), z29(G)
HV Supply Battery Assembly
Service Plug
O–W
O
+
+
4 IB0
2 IB1
1 VIB
3 GIB
Current Sensor
V
GR
BR
L–W
L
W
R
LG
V
GR
BR
L–W
3 F GD0
15 F CD0
23 F IB0
11 F IB1
24 F VIB
12 F GIB
16 E IGCT
1 E CA2L
9 E CA2H
14 J CA2H
7 J CA2L
8 J IGCT
z13(C), z14(D), z15(E), z16(F), z27(A), z28(B)
Battery ECU Assembly
M37(A), S3(B), S4(C), z29(G), z30(D)
HV Battery Junction Block Assembly
GR
W
SB
SB
LG
LG
W
GR

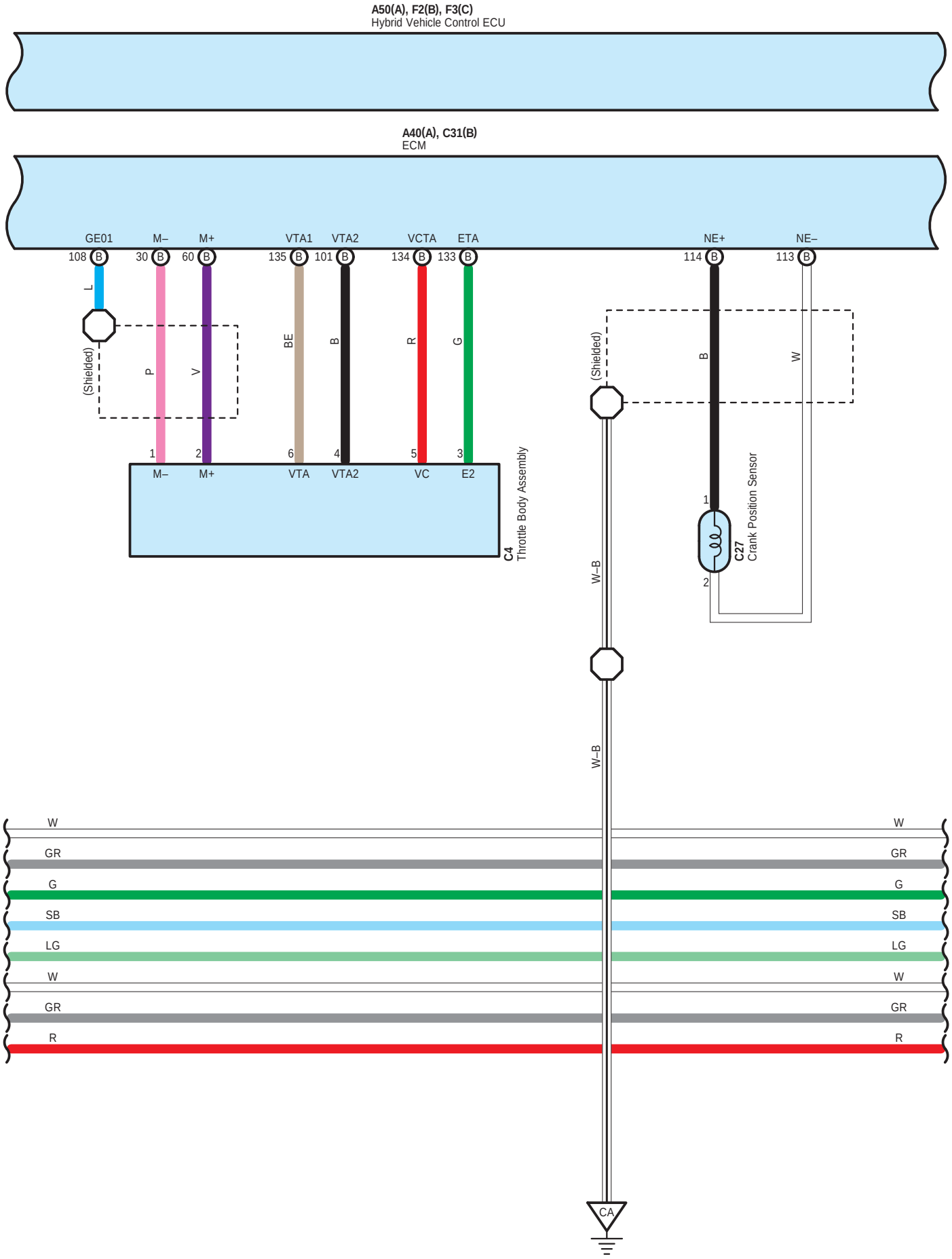

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
SMRB
SMRP
SMRG
ILK
16 B
15 B
13 B
5 B
BE
LG
P
V
54 MF2
33 MF2
32 MF2
53 MF2
O
1 D
1 A
2 A
4 A
SMRB
SMRP
SMRG
Main Relay
Resistor
Precharge Relay
Main Relay
1
ILK
GND
2
M39
Inter Lock Switch
W–B
GND
CBI
CEI
3 A
1 C
1 B
M37(A), S3(B), S4(C), z29(G), z30(D)
HV Battery Junction Block Assembly
(Shielded)
(Shielded)
SB
LG
W
GR
MD

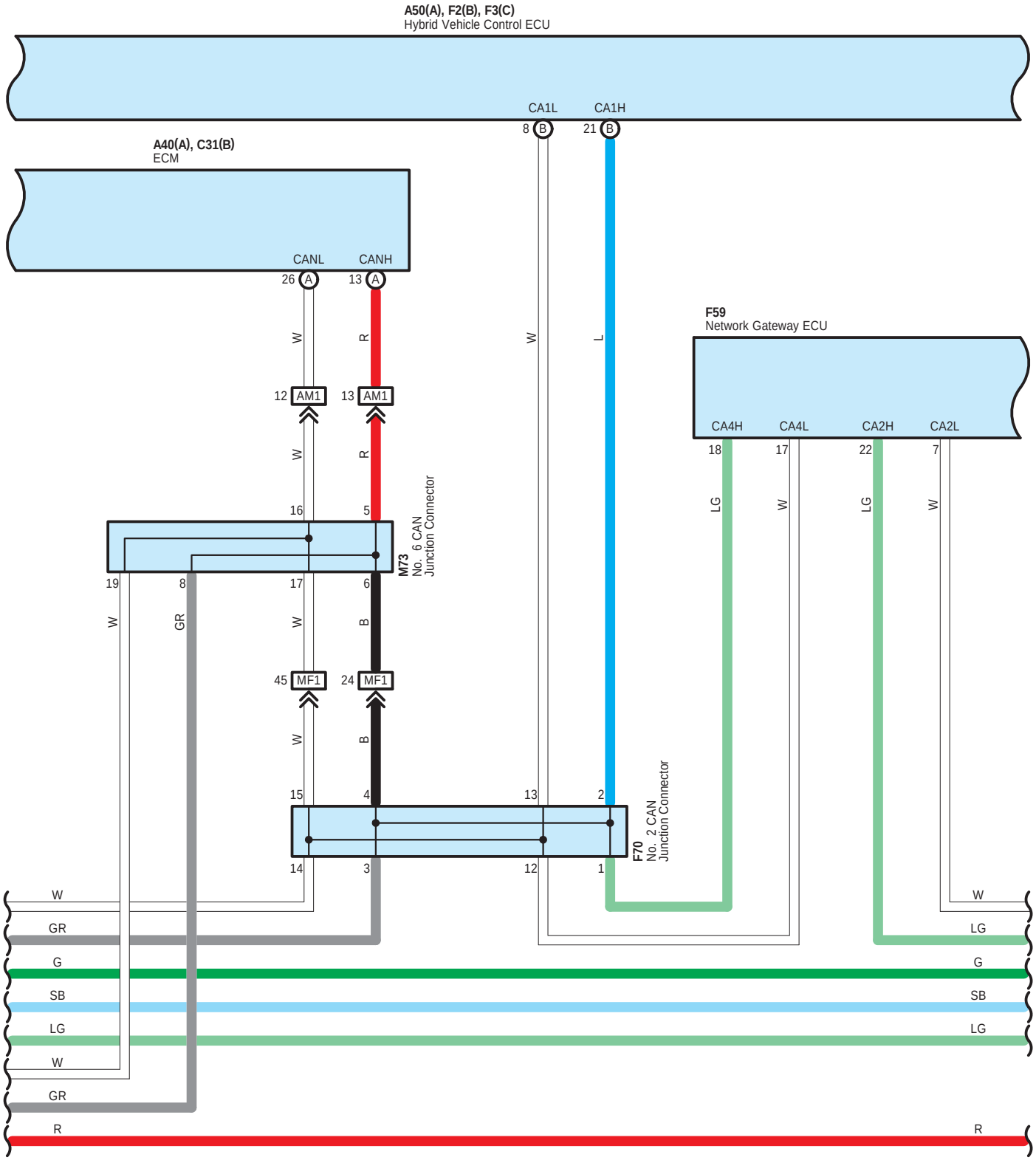

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
MMTG
MMT
ETTA
TTA
GMT
GMTG
45 A
46 A
39 A
40 A
48 A
47 A
BR
L
P
SB
LG
R
17 CA2
16 CA2
8 CA2
7 CA2
14 CA2
15 CA2
BR
L
P
SB
LG
R
2 B
1 B
13 A
3 A
5 B
4 B
MMTG
MMT
ETTA
TTA
GMT
GMTG
C32(A), C33(B), D2(C), S1(D), h2(E)
Inverter with Converter Assembly
GSN
GSNG
GCS
GCSG
GRF
GRFG
DRN3
10 A
11 A
13 A
12 A
8 A
9 A
7 A
G
(Shielded)
(Shielded)
G
W
R
B
Y
L
12 A
2 A
7 A
11 A
1 A
8 A
GSN
GSNG
GCS
GCSG
GRF
GRFG
C1(A), C8(B), h1(C)
Hybrid Vehicle Transaxle Assembly
(Shielded)
(Shielded)
O
O
O
O
SB
SB
LG
LG
W
W
GR
GR

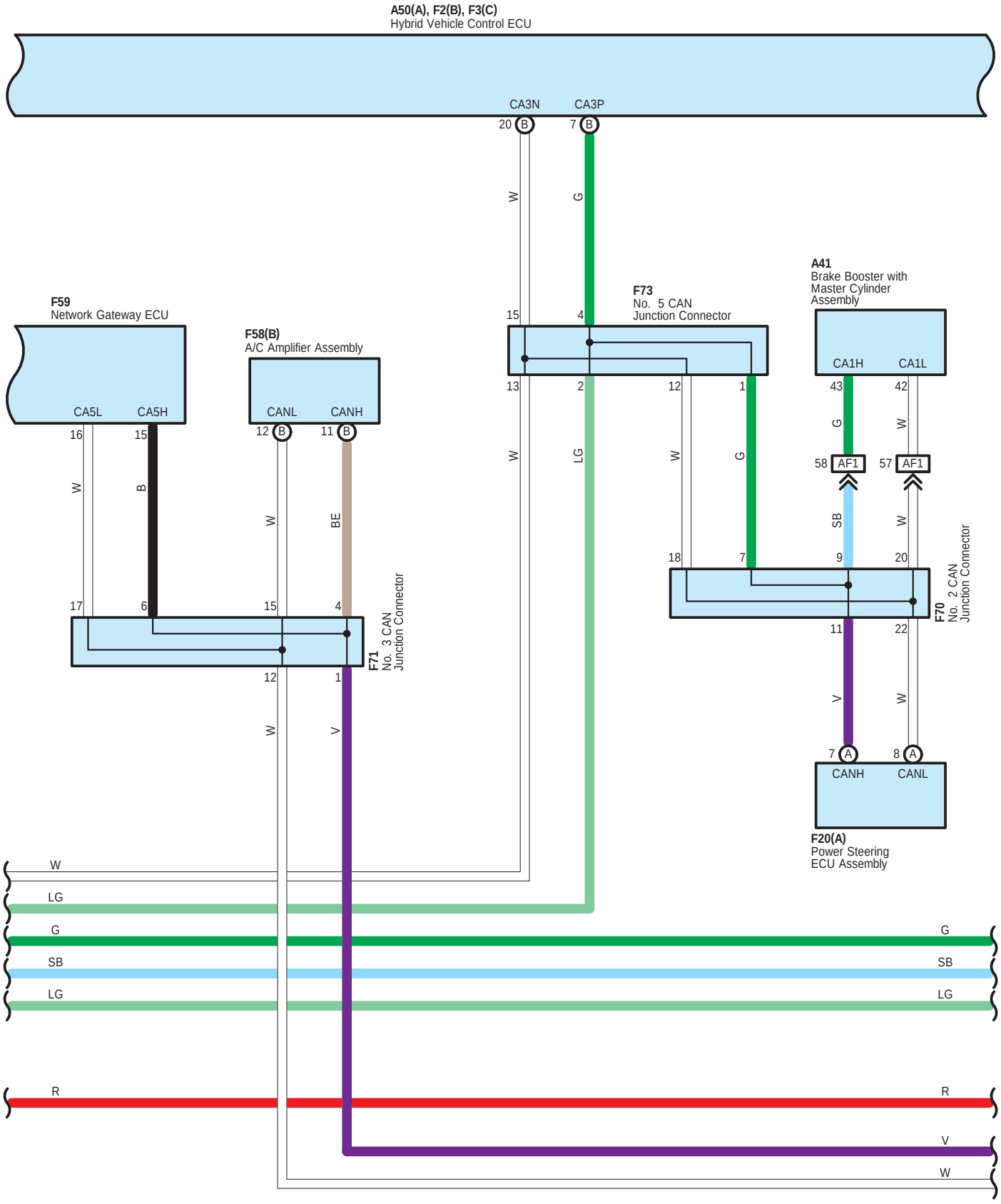

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
HMCH
HMCL
DRN5
HSDN
4 A
14 A
13 A
6 A
V
(Shielded)
B
W
10 CA3
9 CA3
11 CA3
10 CA1
16 CA1
L
BR
W–B
20 B
19 B
13 B
22 B
21 B
DRN1
DRN2
C32(A), C33(B), D2(C), S1(D), h2(E)
Inverter with Converter Assembly
MRF
MRFG
MSN
MSNG
MCS
MCSG
W
U
V
5 A
6 A
1 A
2 A
4 A
3 A
1 E
2 E
3 E
4 E
5 E
6 E
P
GR
LG
BR
SB
O
9 A
10 A
14 A
6 C
5 C
4 C
3 C
2 C
1 C
C1(A), C8(B), h1(C)
Hybrid Vehicle Transaxle Assembly

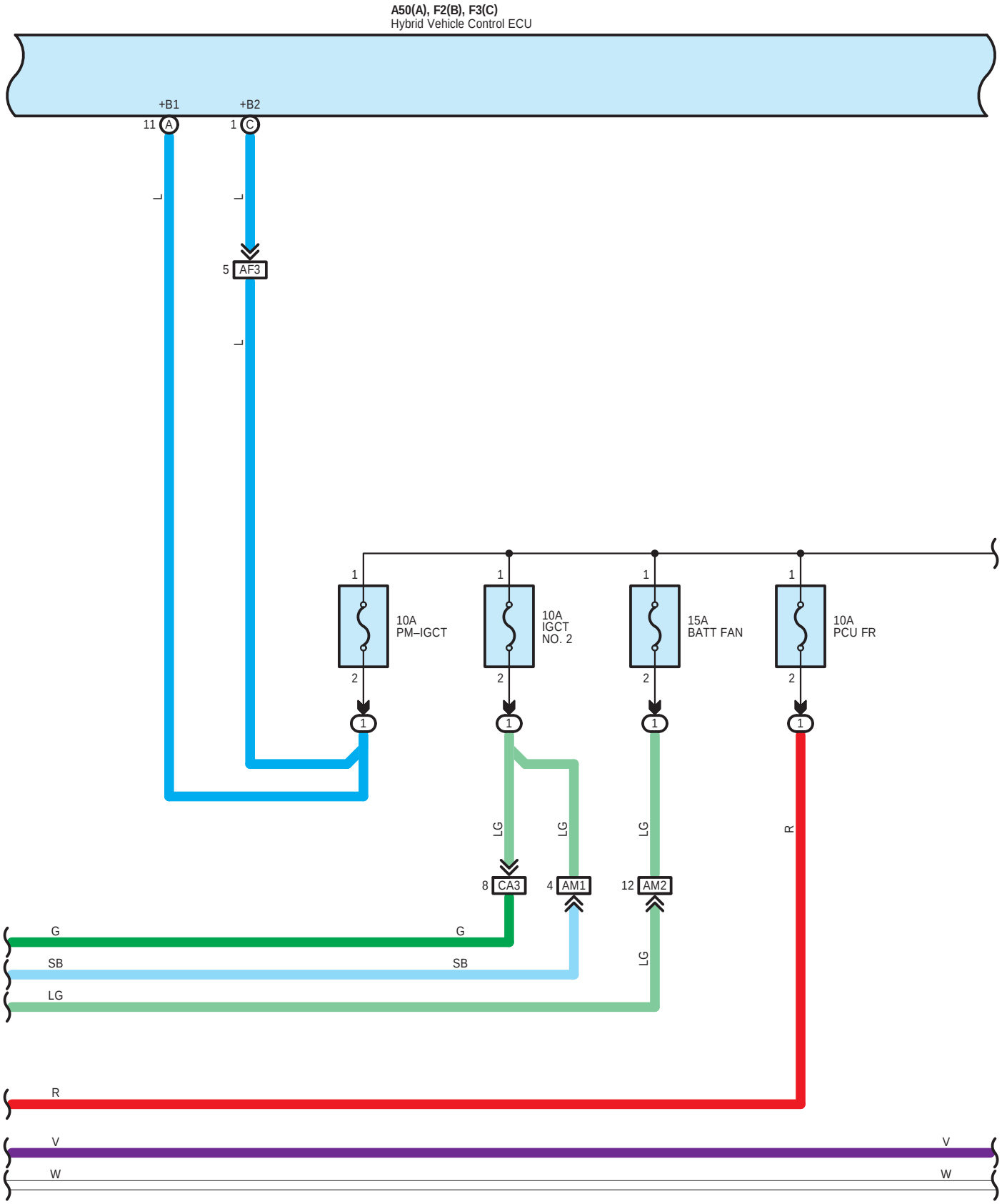

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
(BAT)
D3(E)
Fusible Link
Block Assembly
120A
DC/DC
1 E
W
C32(A), C33(B), D2(C), S1(D), h2(E)
Inverter with Converter Assembly
1 C
AMD
CEI
CBI
GND1
GND2
+B
+B2
IGCT
2 D
1 D
24 B
23 B
6 B
5 B
12 B
(Shielded)
O
O
W-B
W-B
R
R
G
W-B
7 CA3
12 CA3
W-B
R
(Shielded)
O
O
SB
LG
W
GR
G
SB
LG
W
GR
R
3
A56
No. 1 Ground
Junction Connector
AB

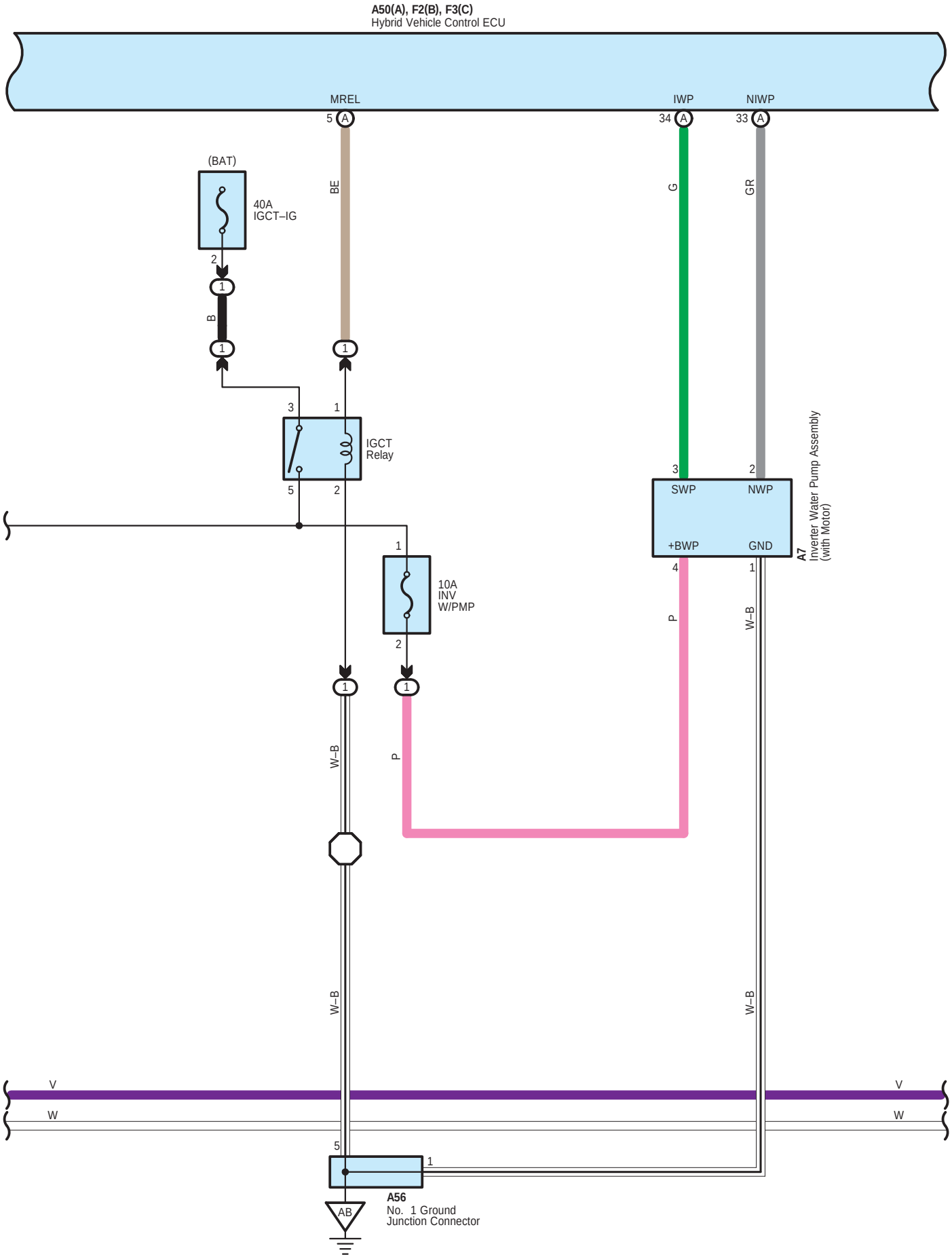

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
A40(A), C31(B)
ECM
NEO
30 A
G2O
70 B
(Shielded)
L
4 CA3
5 CA3
(Shielded)
W
R
(Shielded)
L
BR
C32(A), C33(B), D2(C), S1(D), h2(E)
Inverter with Converter Assembly
CANH
CANL
DRN4
GI
DRN5
NE
1 B
7 B
15 B
10 B
16 B
17 B
GR
W
R
W
BR
L
21 CA2
22 CA2
GR
W
37 AF1
36 AF1
GR
W
W
GR
G
G
SB
SB
LG
LG
W
W
GR
GR
R
R

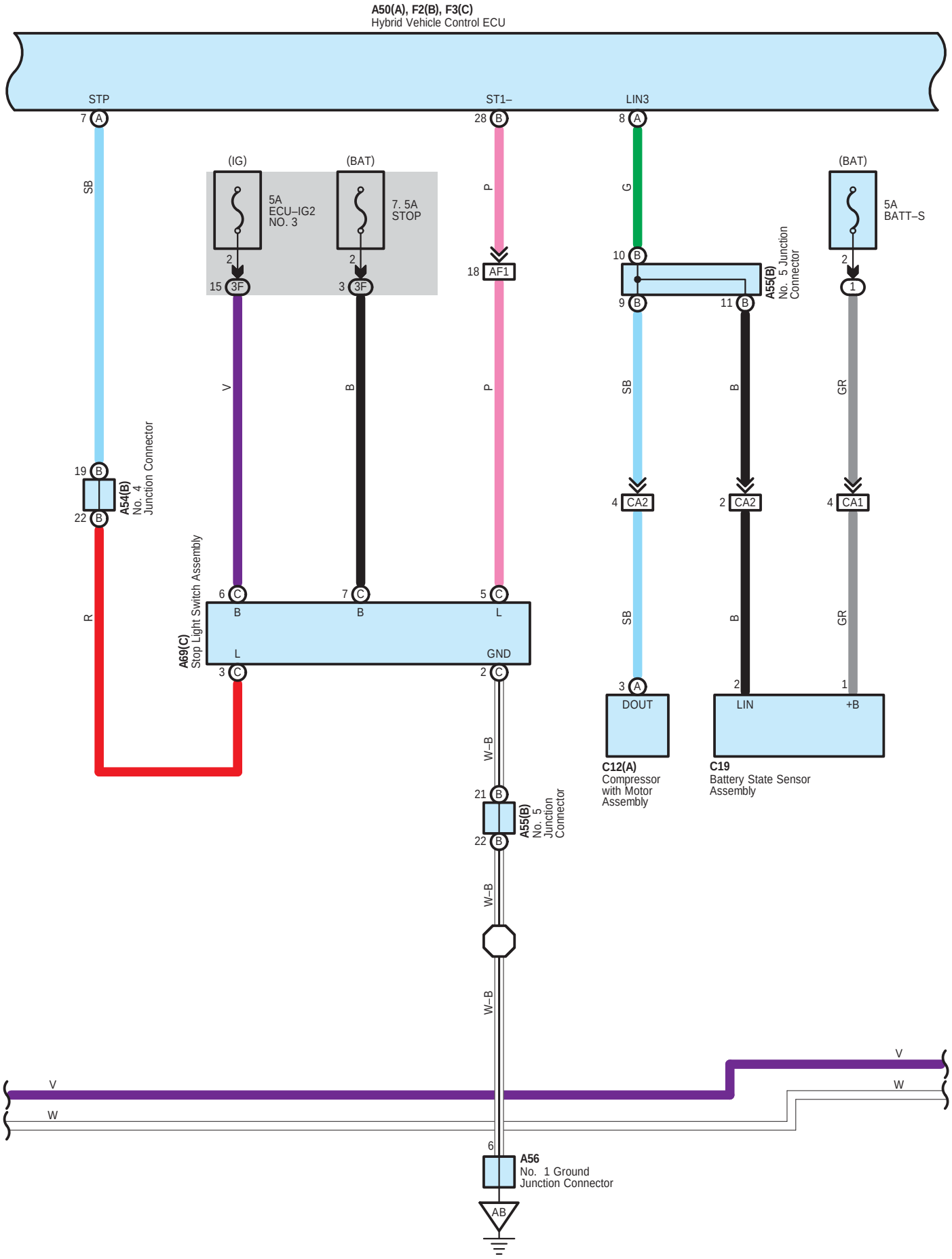

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
A40(A), C31(B)
ECM
GE01
M–
M+
VTA1
VTA2
VCTA
ETA
NE+
NE–
108 B
30 B
60 B
135 B
101 B
134 B
133 B
114 B
113 B
L
(Shielded)
P
V
BE
B
R
G
B
W
(Shielded)
1
2
6
4
5
3
M–
M+
VTA
VTA2
VC
E2
C4
Throttle Body Assembly
1
2
C27
Crank Position Sensor
W–B
W–B
W
GR
G
SB
LG
W
GR
R
W
GR
G
SB
LG
W
GR
R
CA

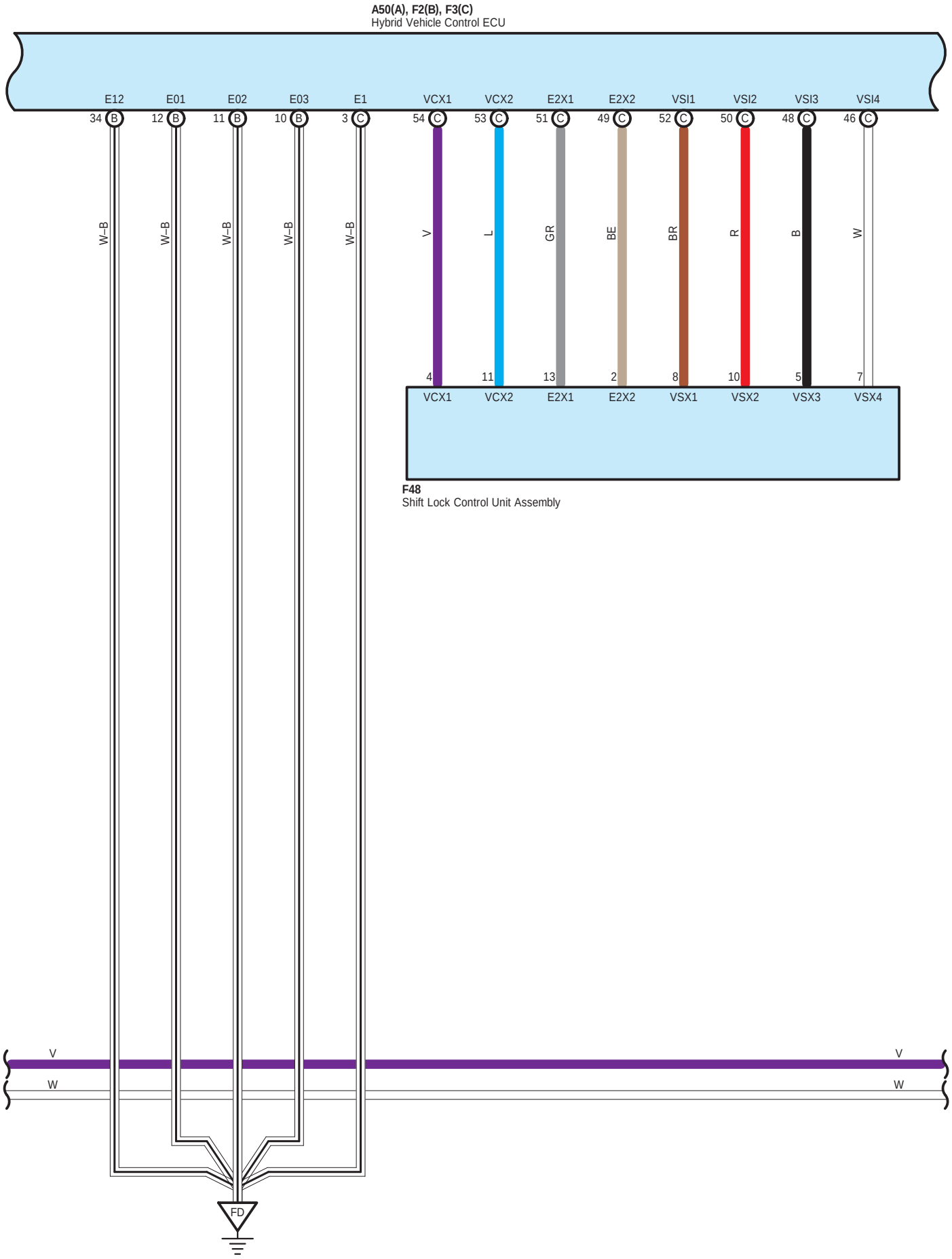

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
CA1L
CA1H
8 B
21 B
A40(A), C31(B)
ECM
CANL
CANH
26 A
13 A
W
R
W
L
F59
Network Gateway ECU
CA4H
CA4L
CA2H
CA2L
18
17
22
7
LG
W
LG
W
12 AM1
13 AM1
W
R
16
5
M73
No. 6 CAN
Junction Connector
19
8
17
6
W
GR
W
B
45 MF1
24 MF1
W
B
15
4
13
2
F70
No. 2 CAN
Junction Connector
14
3
12
1
W
GR
G
SB
LG
W
GR
R
W
LG
G
SB
LG
R

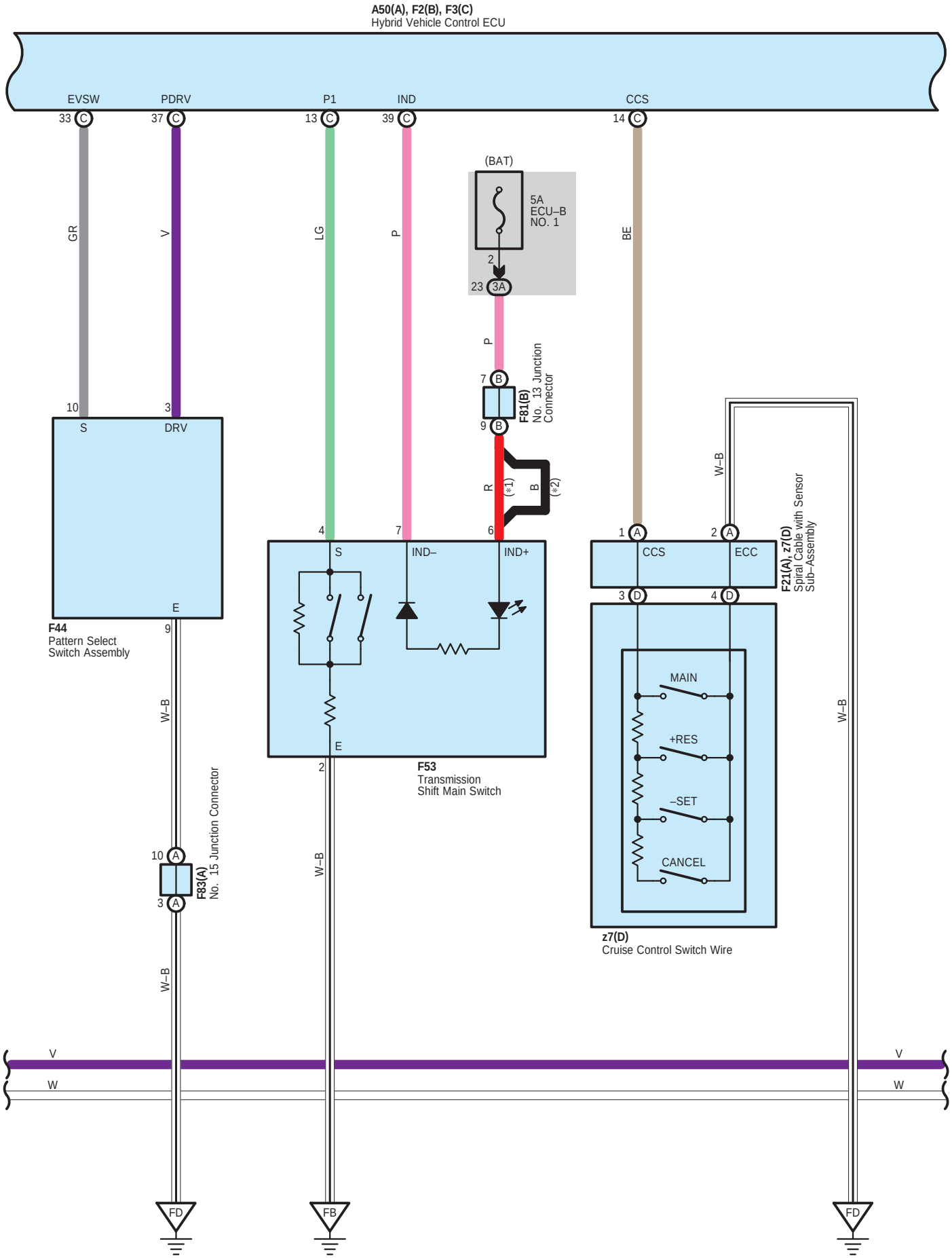

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
CA3N
CA3P
20 B
7 B
W
G
F59
Network Gateway ECU
CA5L
CA5H
16
15
W
B
F58(B)
A/C Amplifier Assembly
CANL
CANH
12 B
11 B
W
BE
F73
No. 5 CAN
Junction Connector
15
4
13
2
W
LG
12
1
W
G
A41
Brake Booster with
Master Cylinder
Assembly
CA1H
CA1L
43
42
G
W
58 AF1
57 AF1
SB
W
18
7
9
20
F70
No. 2 CAN
Junction Connector
11
22
V
W
7 A
8 A
CANH
CANL
F20(A)
Power Steering
ECU Assembly
17
6
15
4
F71
No. 3 CAN
Junction Connector
12
1
W
V
W
LG
G
SB
LG
R
V
W
G
SB
LG
R

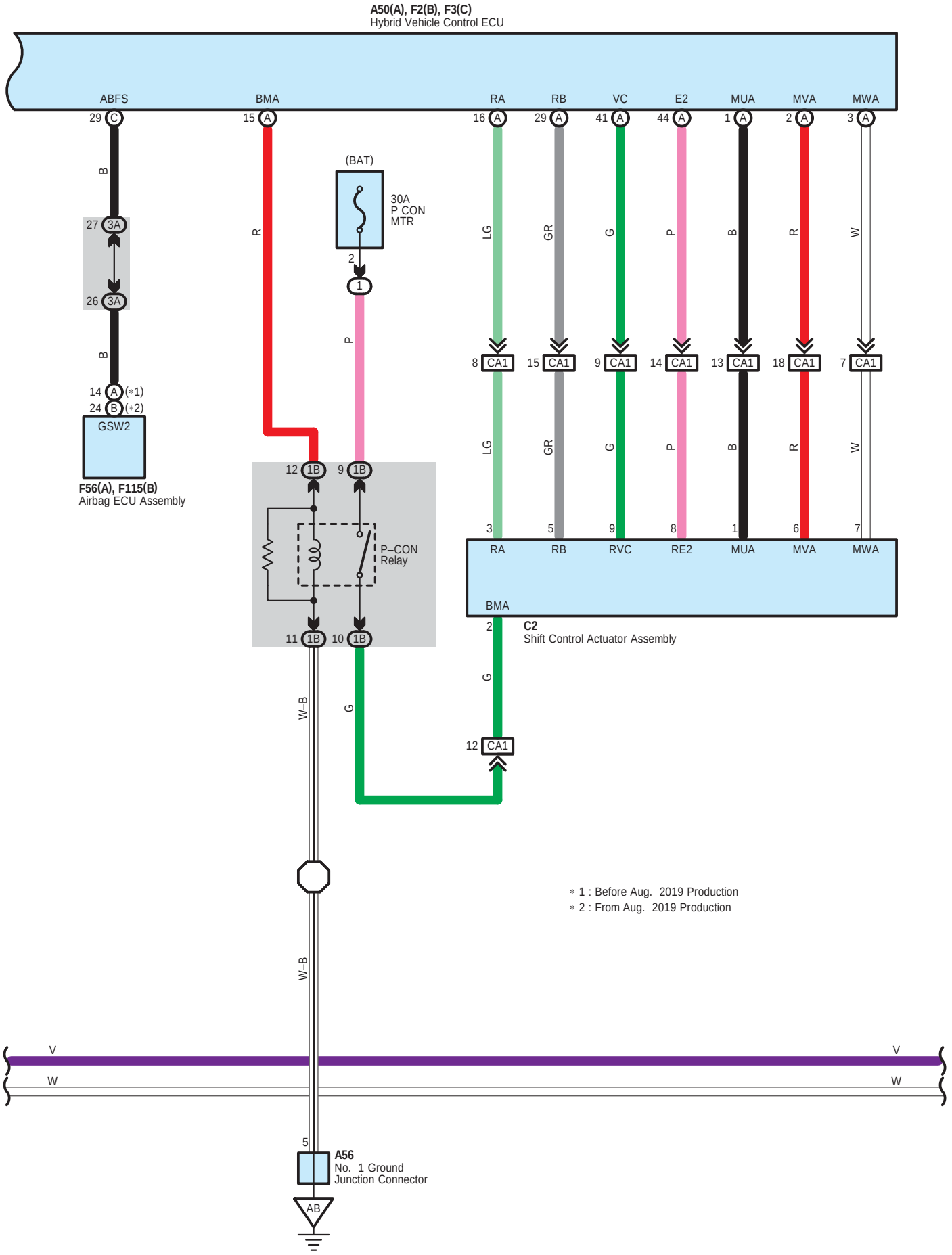

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
+B1
+B2
11 A
1 C
L
L
5 AF3
L
1
2
10A
PM–IGCT
1
2
10A
IGCT
NO. 2
1
2
15A
BATT FAN
1
2
10A
PCU FR
1
1
1
1
LG
LG
LG
R
8 CA3
4 AM1
12 AM2
G
G
SB
SB
LG
LG
R
V
V
W
W

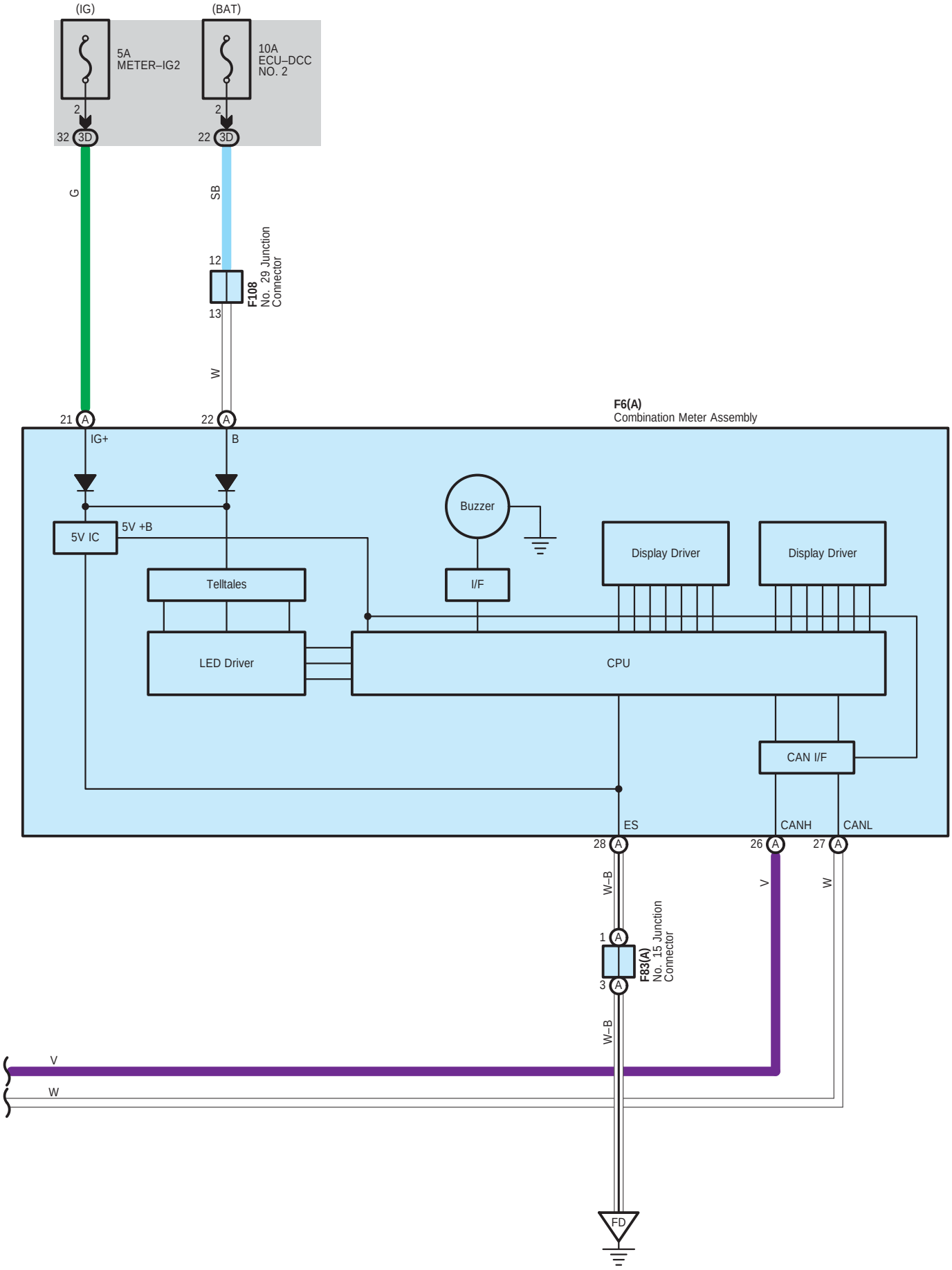

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
MREL
IWP
NIWP
5 A
34 A
33 A
(BAT)
40A
IGCT–IG
BE
G
GR
B
2
1
1
1
3
1
IGCT
Relay
5
2
3
2
SWP
NWP
+BWP
GND
A7
Inverter Water Pump Assembly
(with Motor)
4
1
1
10A
INV
W/PMP
2
P
W–B
1
1
W–B
P
W–B
V
W
V
W
5
1
A56
No. 1 Ground
Junction Connector
AB


A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
STP
ST1–
LIN3
7 A
28 B
8 A
SB
P
G
(IG)
(BAT)
5A
ECU–IG2
NO. 3
7. 5A
STOP
2
15 3F
2
3 3F
18 AF1
10 B
9 B
11 B
A55(B)
No. 5 Junction
Connector
(BAT)
5A
BATT–S
2
1
V
B
P
SB
B
GR
19 B
22 B
A54(B)
No. 4
Junction Connector
4 CA2
2 CA2
4 CA1
R
6 C
B
7 C
B
5 C
L
A69(C)
Stop Light Switch Assembly
L
GND
3 C
2 C
3 A
DOUT
2
LIN
1
+B
C12(A)
Compressor
with Motor
Assembly
C19
Battery State Sensor
Assembly
W–B
21 B
22 B
A55(B)
No. 5
Junction
Connector
W–B
W–B
V
W
V
W
6
A56
No. 1 Ground
Junction Connector
AB

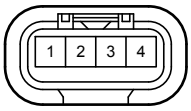

A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
E12
E01
E02
E03
E1
VCX1
VCX2
E2X1
E2X2
VSI1
VSI2
VSI3
VSI4
34 B
12 B
11 B
10 B
3 C
54 C
53 C
51 C
49 C
52 C
50 C
48 C
46 C
W-B
W-B
W-B
W-B
W-B
V
L
GR
BE
BR
R
B
W
4
11
13
2
8
10
5
7
VCX1
VCX2
E2X1
E2X2
VSX1
VSX2
VSX3
VSX4
F48
Shift Lock Control Unit Assembly
V
W
V
W
FD


A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
EVSW
PDRV
P1
IND
CCS
33 C
37 C
13 C
39 C
14 C
GR
V
LG
P
BE
(BAT)
5A
ECU–B
NO. 1
2
23 3A
P
7 B
9 B
F81(B)
No. 13 Junction
Connector
R
(*1)
B
(*2)
W–B
10
3
S
DRV
E
F44
Pattern Select
Switch Assembly
9
4
7
6
S
IND–
IND+
E
2
F53
Transmission
Shift Main Switch
1 A
2 A
CCS
ECC
3 D
4 D
F21(A), z7(D)
Spiral Cable with Sensor
Sub–Assembly
MAIN
+RES
–SET
CANCEL
z7(D)
Cruise Control Switch Wire
10 A
3 A
F83(A)
No. 15 Junction Connector
W–B
W–B
W–B
V
W
V
W
FD
FB
FD


A50(A), F2(B), F3(C)
Hybrid Vehicle Control ECU
ABFS
BMA
RA
RB
VC
E2
MUA
MVA
MWA
29 C
15 A
16 A
29 A
41 A
44 A
1 A
2 A
3 A
(BAT)
30A
P CON
MTR
27 3A
26 3A
14 A (*1)
24 B (*2)
GSW2
F56(A), F115(B)
Airbag ECU Assembly
12 1B
9 1B
11 1B
10 1B
P–CON
Relay
8 CA1
15 CA1
9 CA1
14 CA1
13 CA1
18 CA1
7 CA1
3
5
9
8
1
6
7
RA
RB
RVC
RE2
MUA
MVA
MWA
BMA
2
C2
Shift Control Actuator Assembly
12 CA1
R
B
LG
GR
G
P
B
R
W
W–B
W–B
V
W
V
W
5
A56
No. 1 Ground
Junction Connector
AB
* 1 : Before Aug. 2019 Production
* 2 : From Aug. 2019 Production

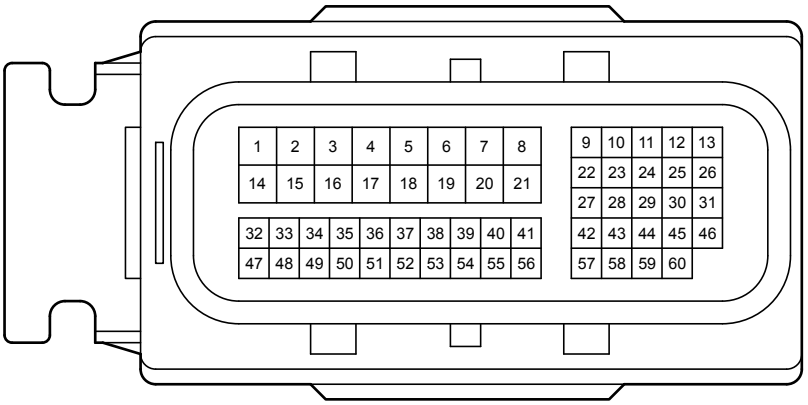

(IG)
(BAT)
5A
METER–IG2
10A
ECU–DCC
NO. 2
2
2
32 3D
22 3D
G
SB
12
F108
No. 29 Junction
Connector
13
W
21 A
22 A
F6(A)
Combination Meter Assembly
IG+
B
Buzzer
5V IC
5V +B
Display Driver
Display Driver
Telltales
I/F
LED Driver
CPU
CAN I/F
ES
CANH
CANL
28 A
26 A
27 A
W–B
V
W
1 A
F83(A)
No. 15 Junction
Connector
3 A
W–B
V
W
FD

A7
Black



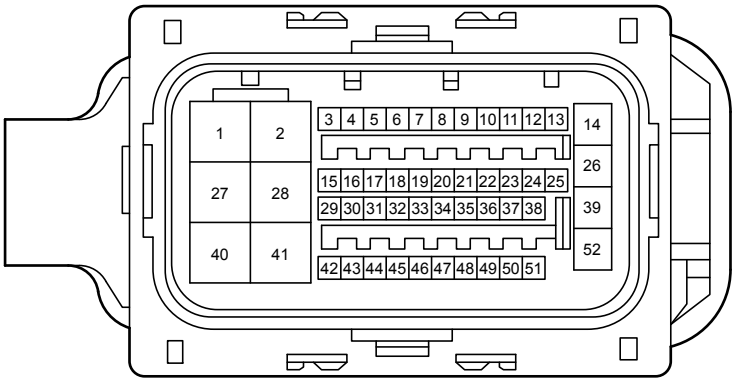
90980-12A29

A40
Black



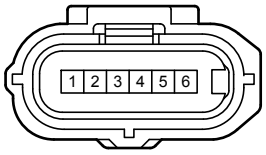
90980-12931

A41
Black



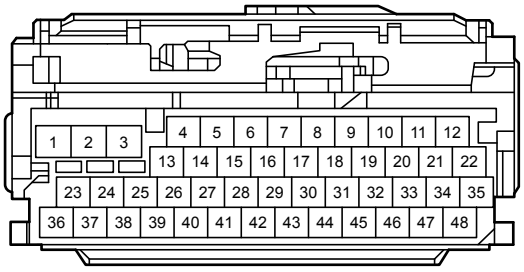
90980-12B87

A48
Black



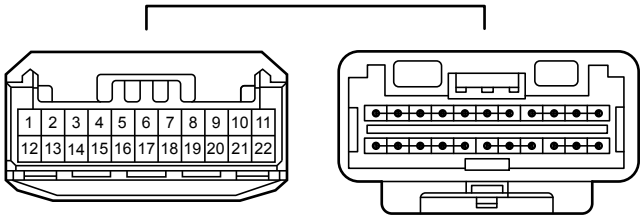
90980-12831

A50
Brown



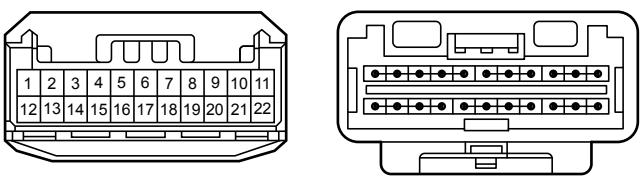
90980-12C24

A54
Black



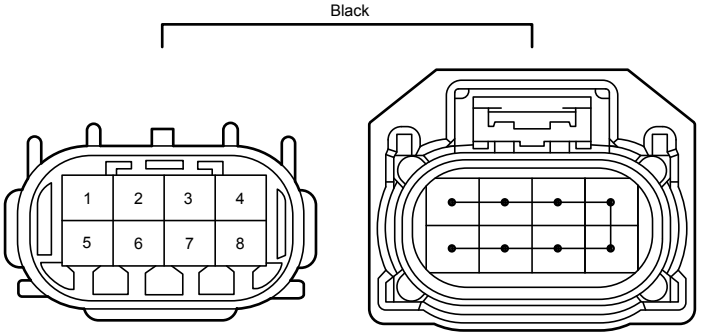
90980-12B54

A55
Black



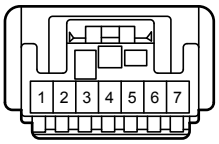
90980-12B54

A56
Black



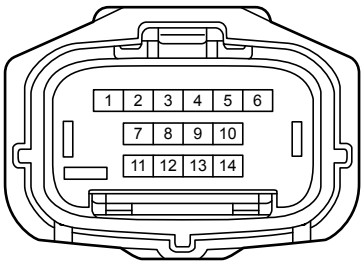
90980-12B56

A69
Black



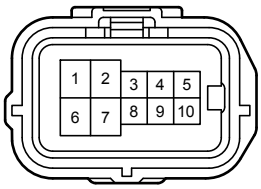
90980-12D92

C1
Black



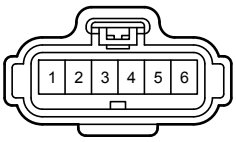
82824-47850

C2
Black



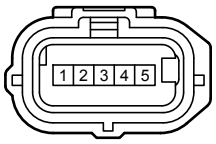
90980-12446

C4
Black



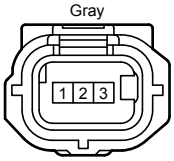
90980-11858

C8
Black



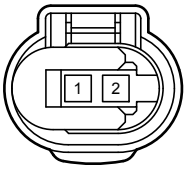
90980-12292

C12
Gray



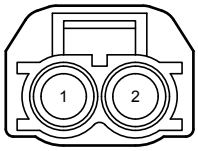
90980-12354

C19
Black



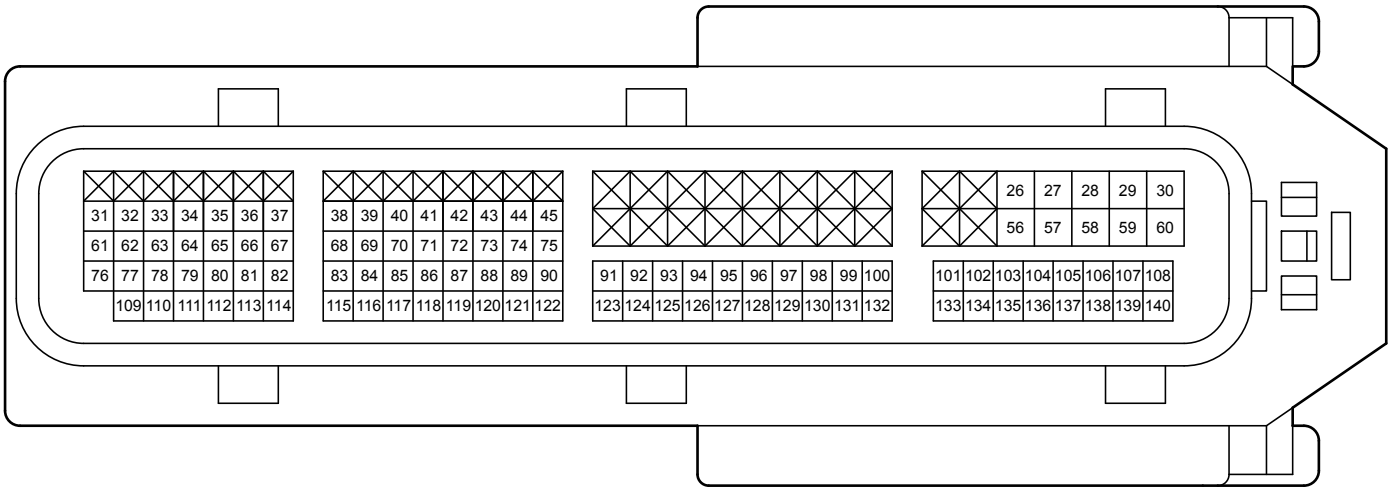
90080-98275

C27
Black



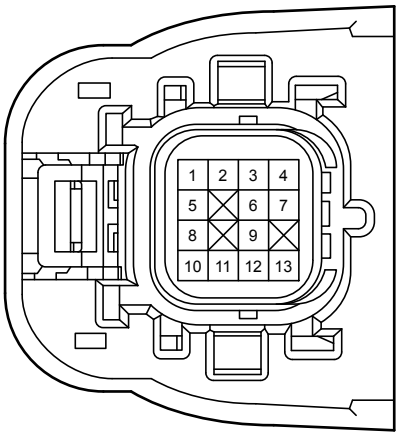
90980-12611

C31
Black



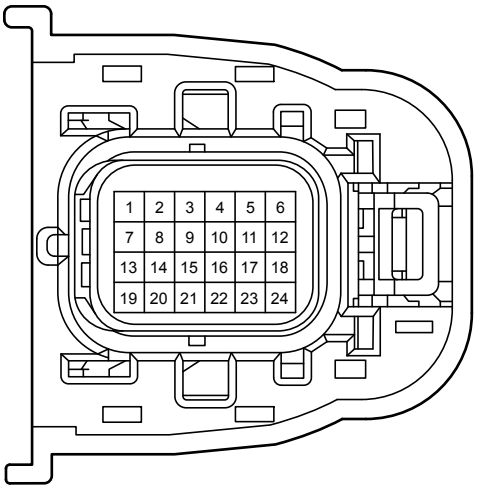
90980-12A39

C32
Black



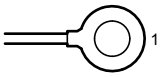
90980-12B85

C33
Black

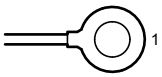


90980-12B86

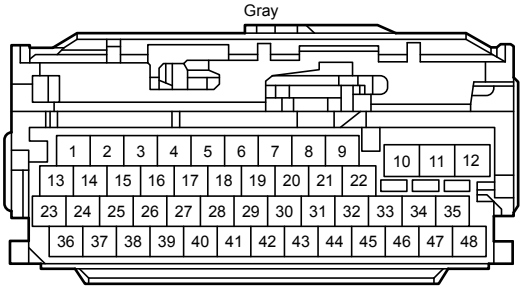
D2



D3

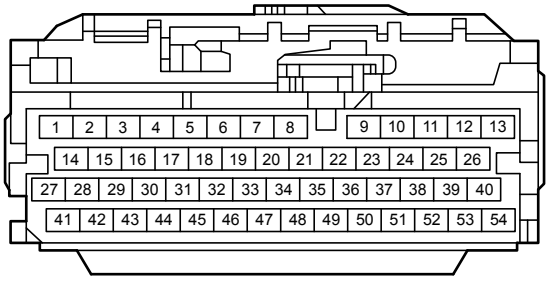


F2
Gray



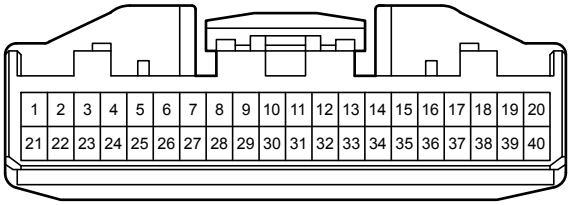
90980-12C23

F3
Black



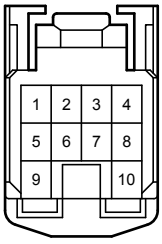
90980-12B96

F6
Black



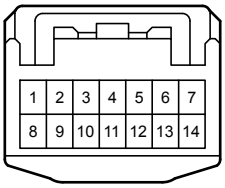
90980-12557

F20
Black



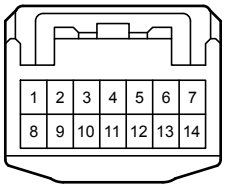
90980-12898

F21
Black



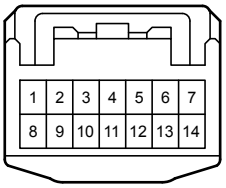
90980-12370

F44
White



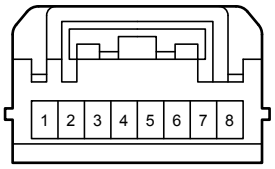
90980-12370

F48
White



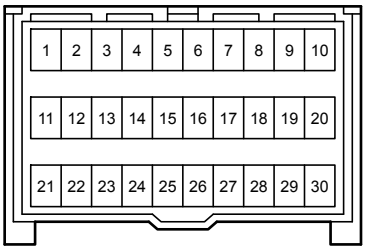
90980-12370

F53
Black



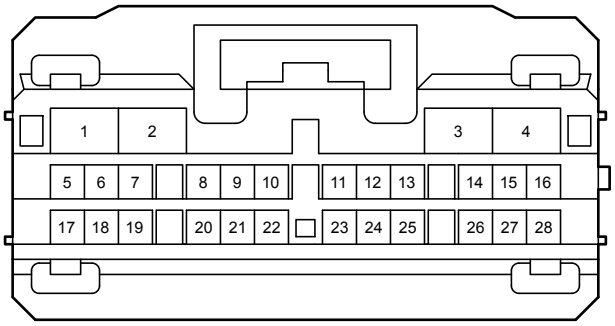
90980-12550

F56
Yellow



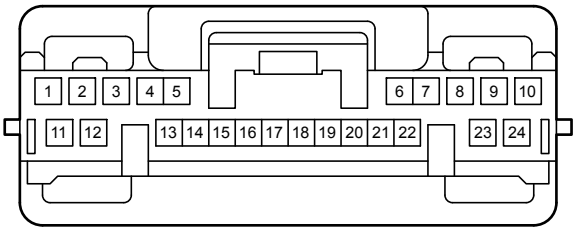
90980-12391

F58
Black



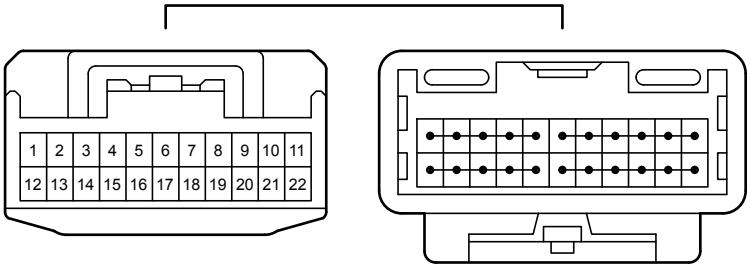
90980-12760

F59
Black



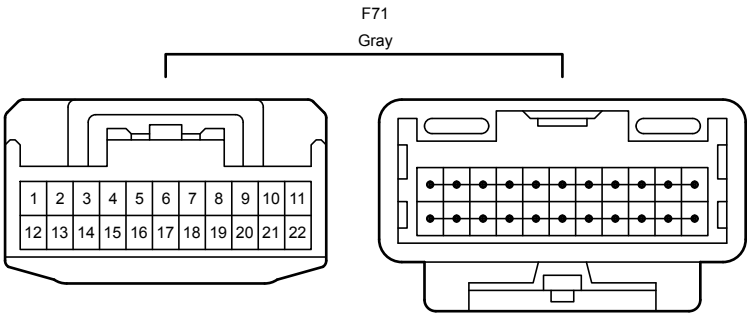
90980-12912

F70
Black



90980-12372

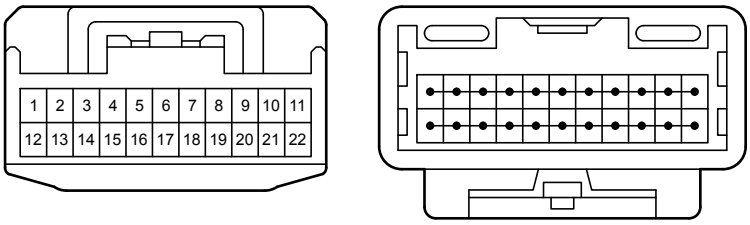
F71
Gray



90980-12372

F73

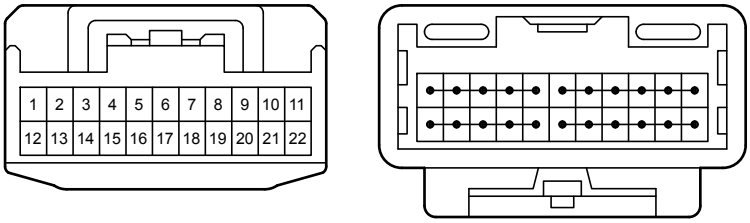
Gray



90980-12372

F81

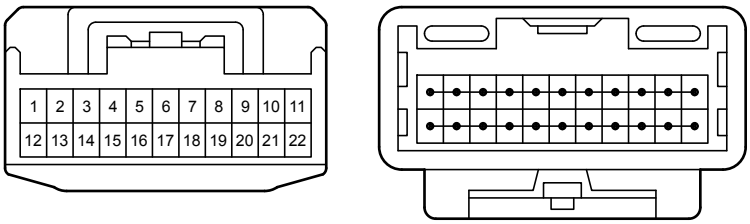
Black



90980-12372

F83

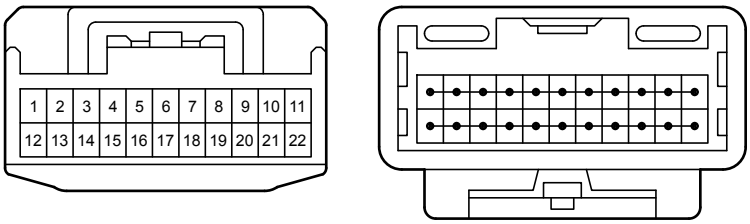
Gray



90980-12372
(LHD)

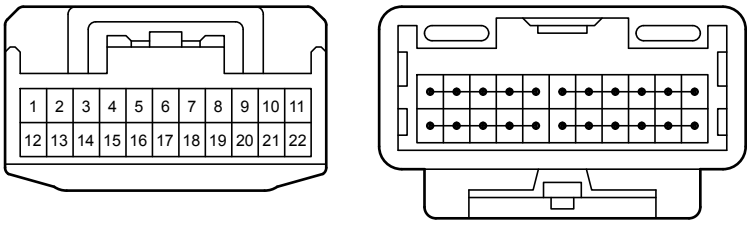
F83

White



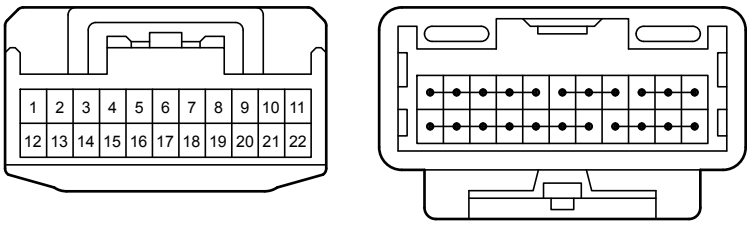
90980-12372
(RHD)

F108
White



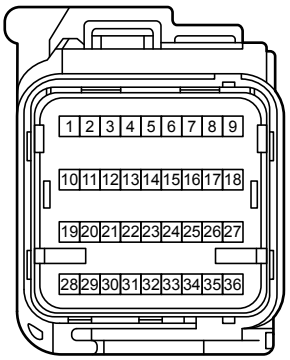
90980-12372

F109
Black



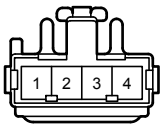
90980-12372

F115
Yellow



90980-12C56

M37
White

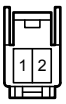


90980-11090

M38
Gray

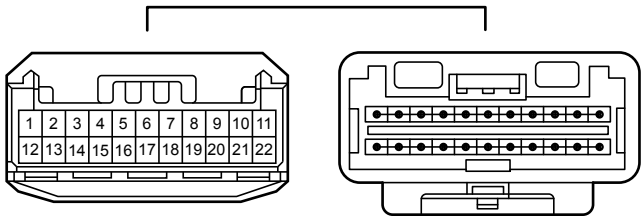
90980-11027

M39
White



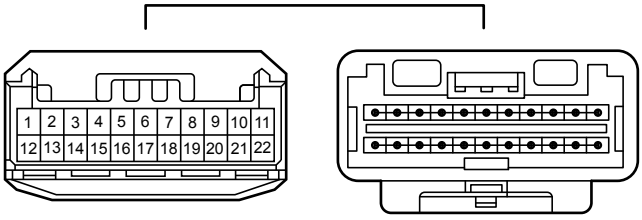
90980-11918

M73
Black



90980-12B54

M75
Black



90980-12B54

M86
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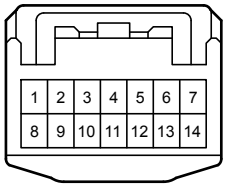
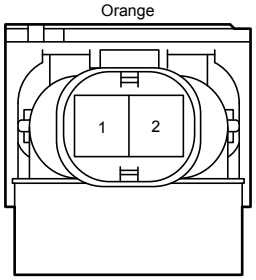


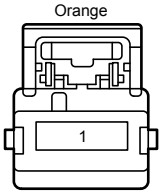
90980-12370

S1
Orange



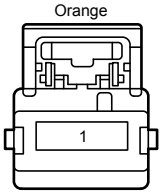
90980-12C21

S3
Orange



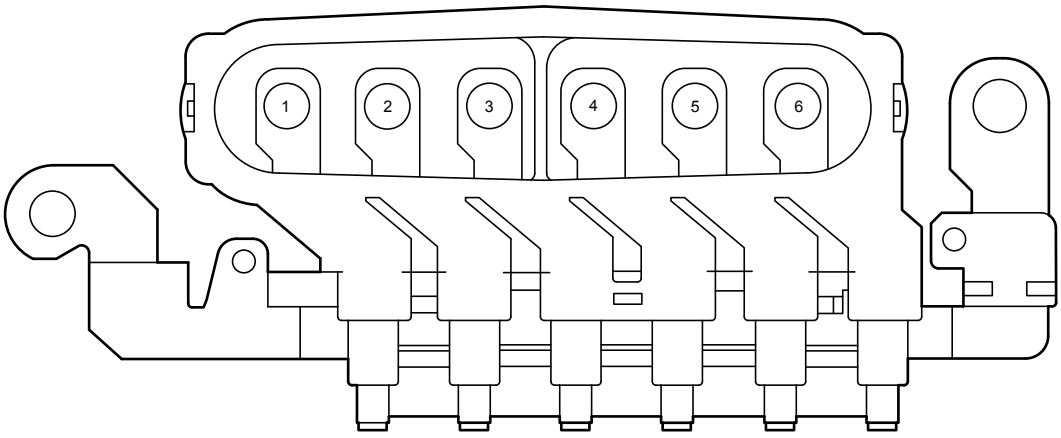
82824-47700

S4
Orange



82824-47560

h1
Black



82824-47510

h2
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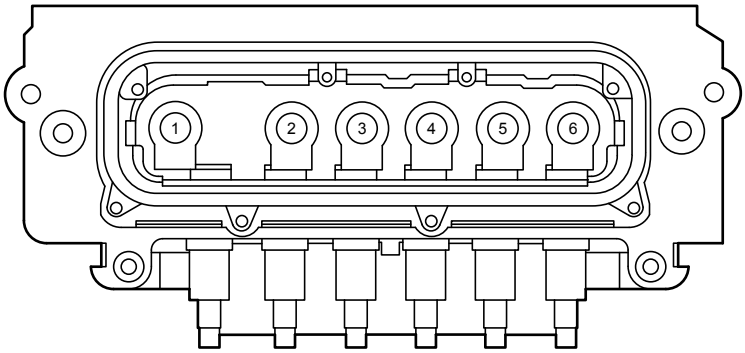
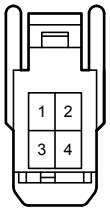
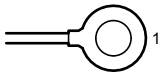


z7
White

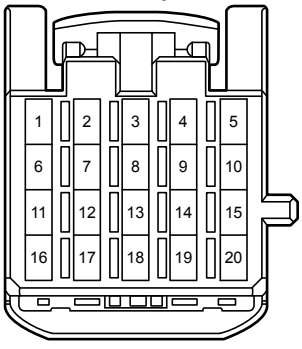


90980-12360

z11

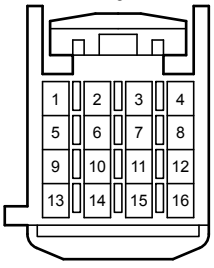


z13
Orange



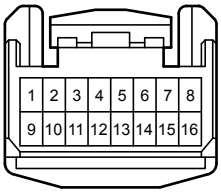
82824-47810

z14
Orange



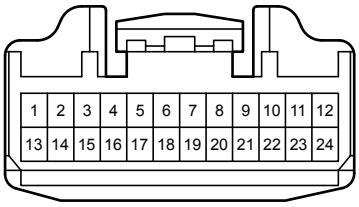
82824-47470

z15
White



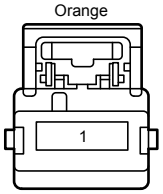
90980-12553

z16
White



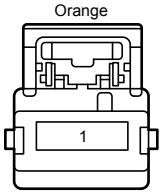
90980-12554

z20
Orange



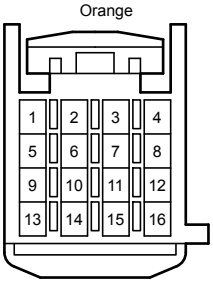
82824-47700

z21
Orange



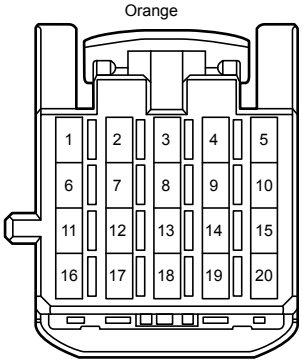
82824-47560

z27
Orange



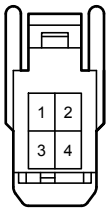
82824-47500

z28
Orange



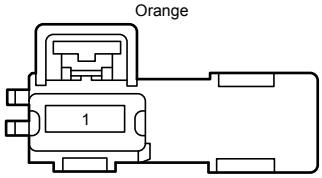
82824-47800

z29
White



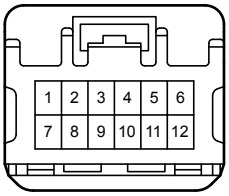
90980-12360

z30
Orange



82824-47540

1B
White



90980-12737

3A
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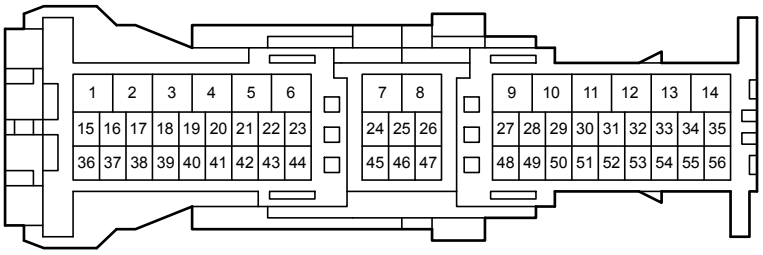

90980-12943

3D
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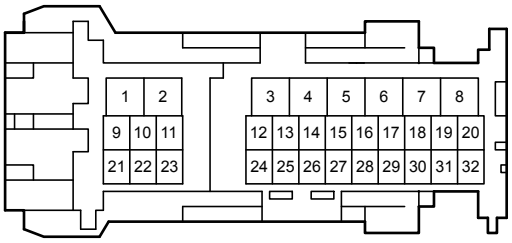
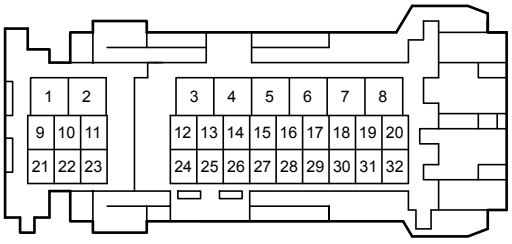


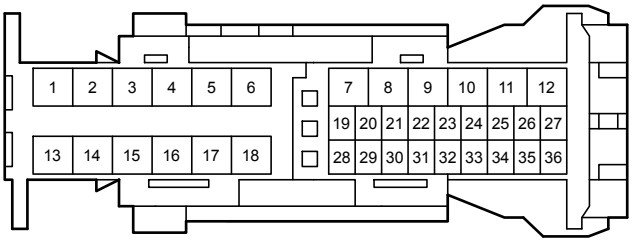
90980-12A48

3F
White



90980-12A47

3H
White



90980-12944

AF1
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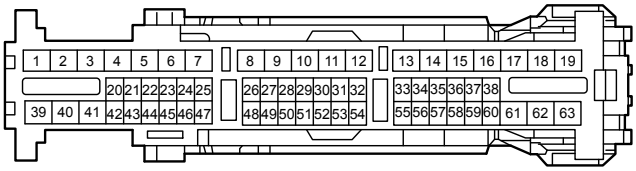
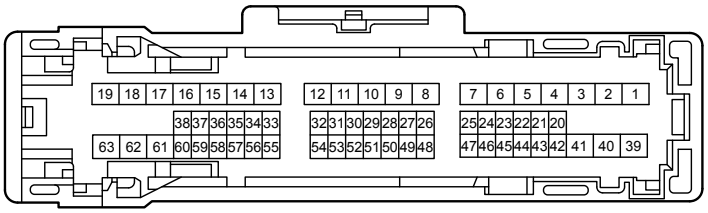


90980-12B20



90980-12B19

AF3
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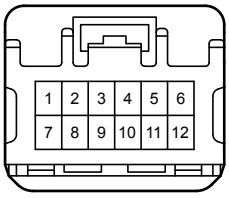
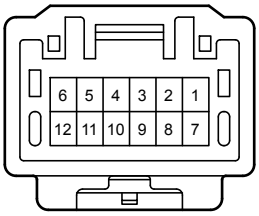
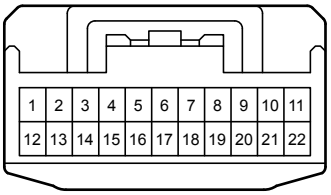


90980-12737

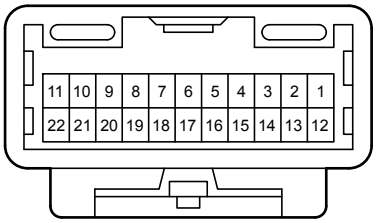


90980-12736

AM1
White

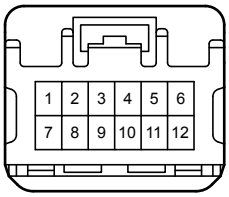


90980-12372

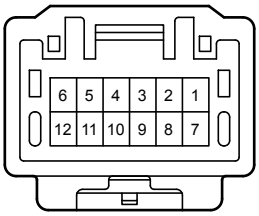


90980-12371

AM2
White

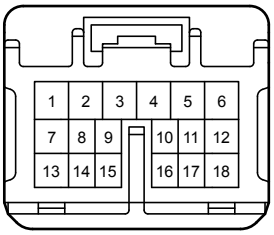


90980-12737

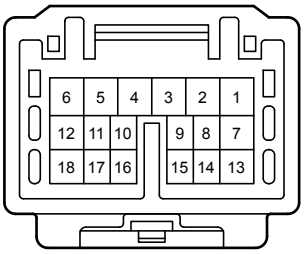


90980-12736

CA1
Gray

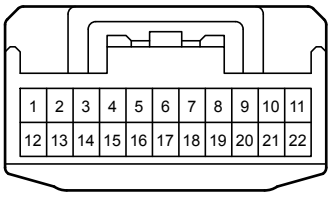


90980-12745

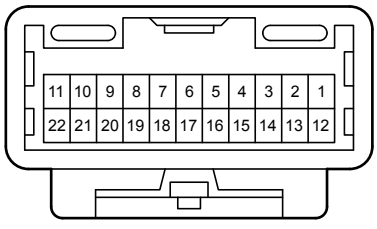


90980-12744

CA2
Black

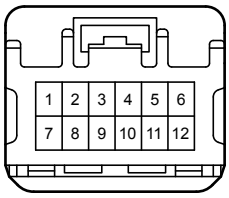


90980-12372

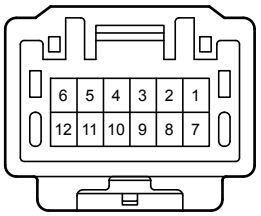


90980-12371

CA3
White



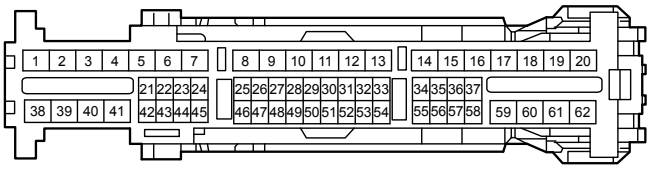
90980-12737



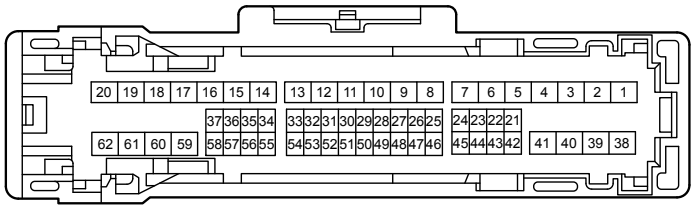
90980-12736

MF1

White



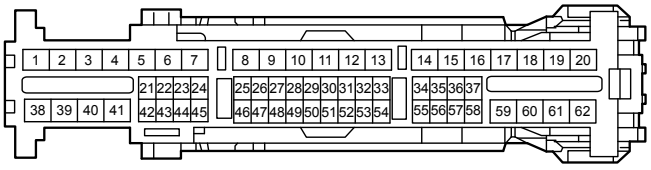
90980-12B22



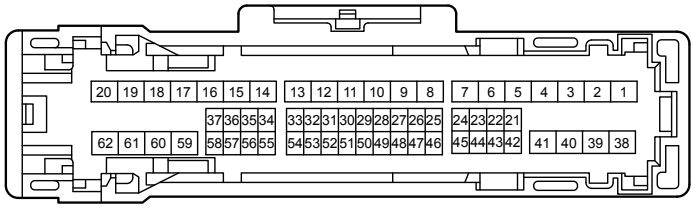
90980-12B21

MF2

White



90980-12B22



90980-12B21