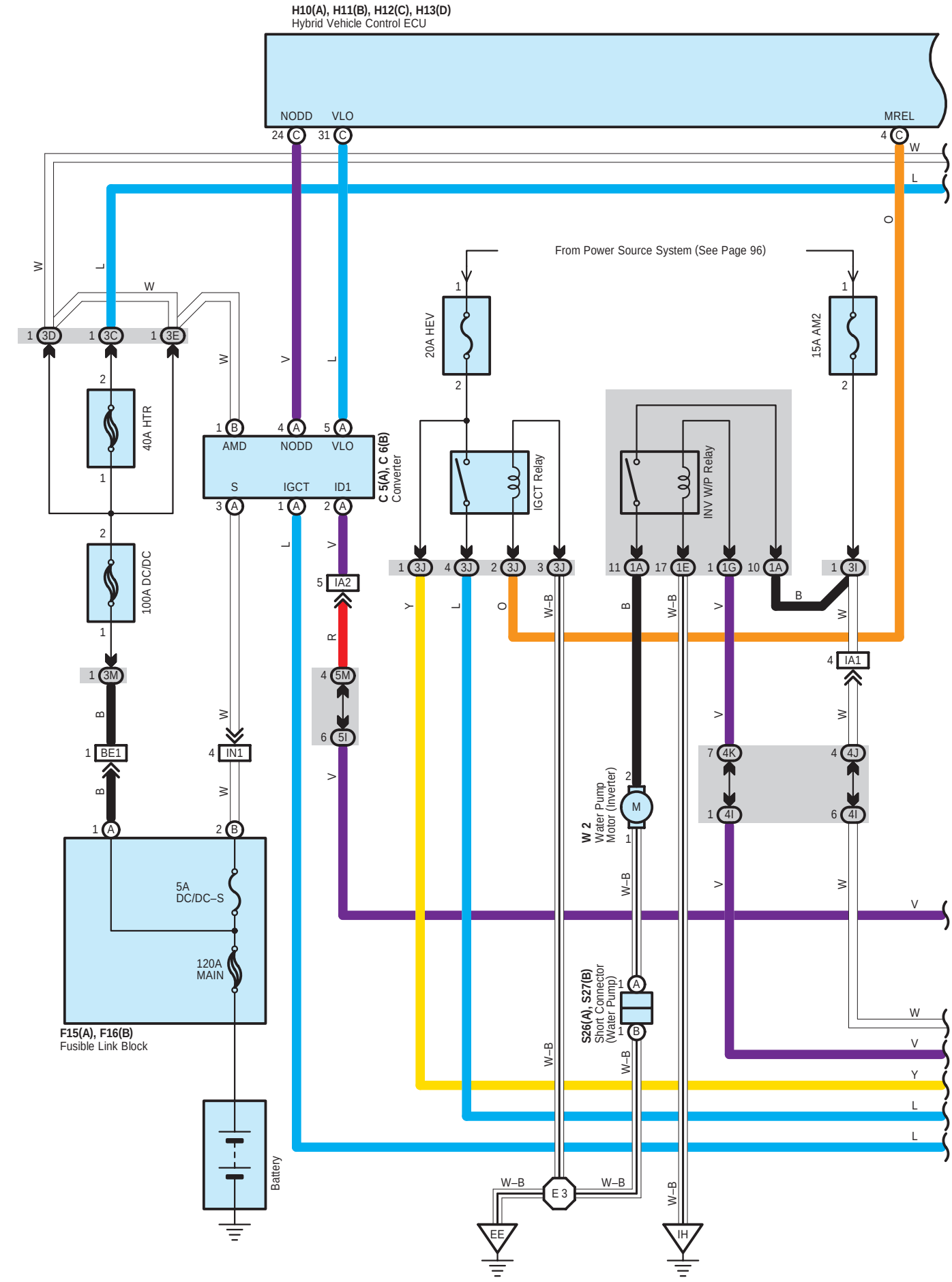
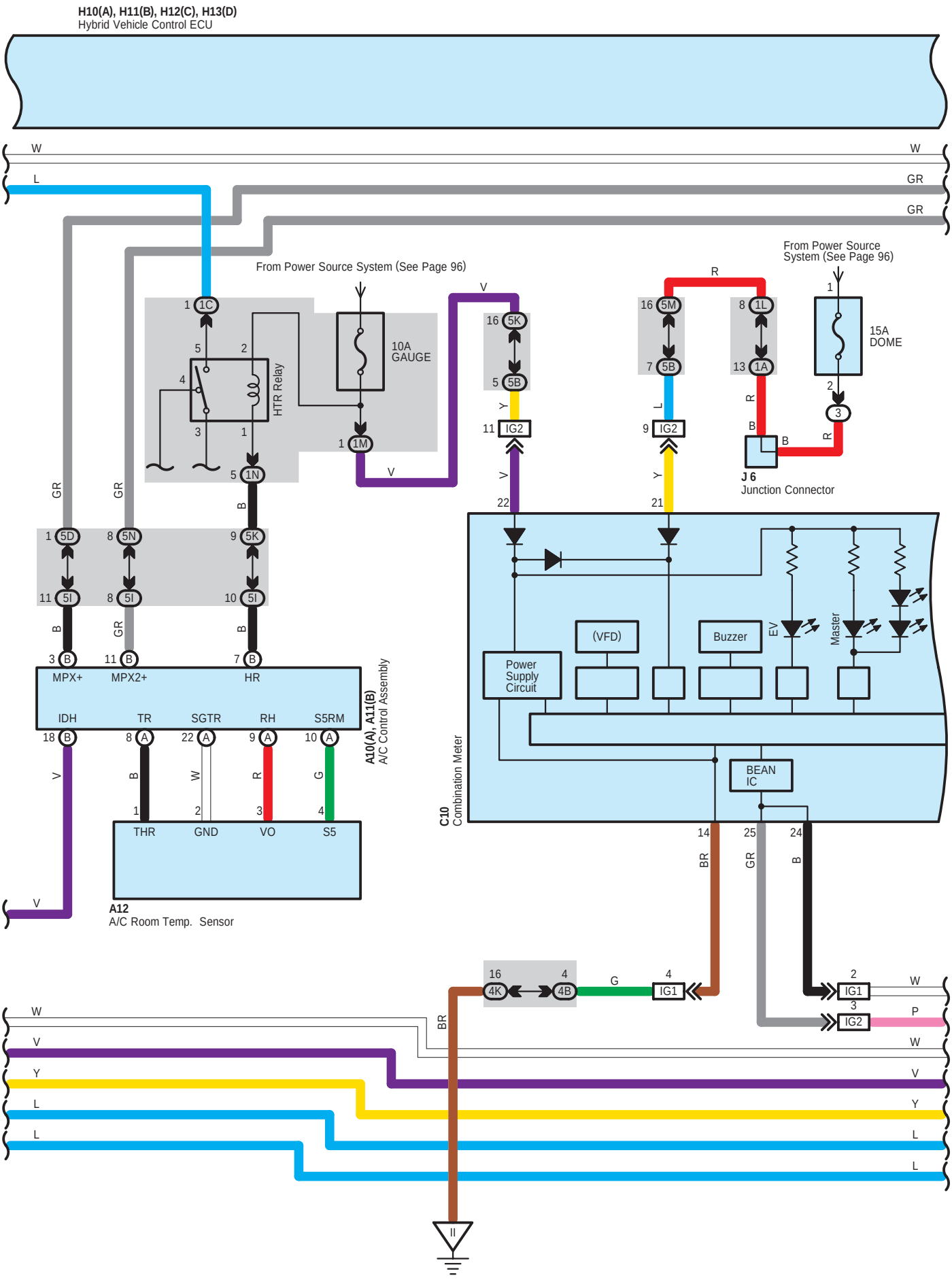
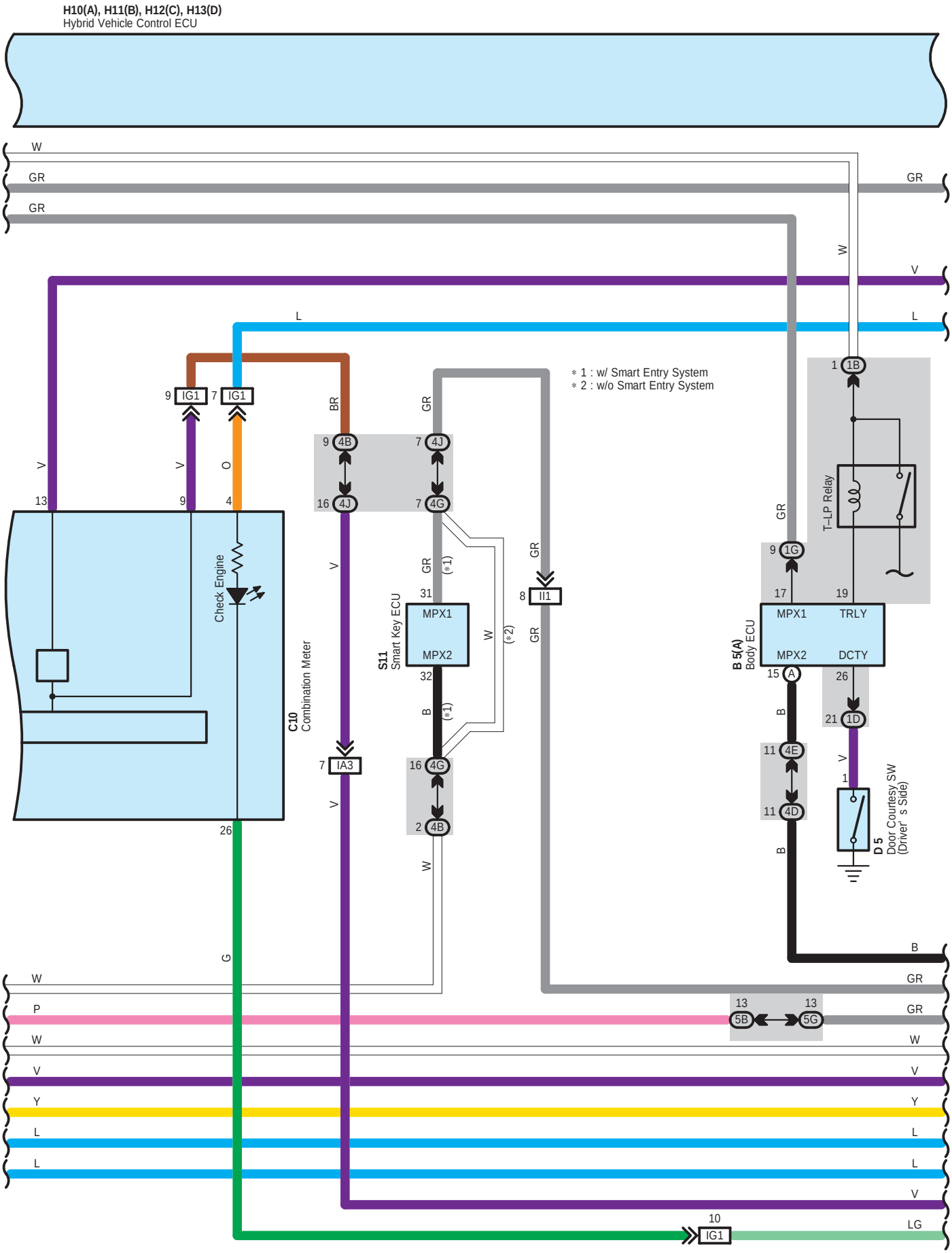
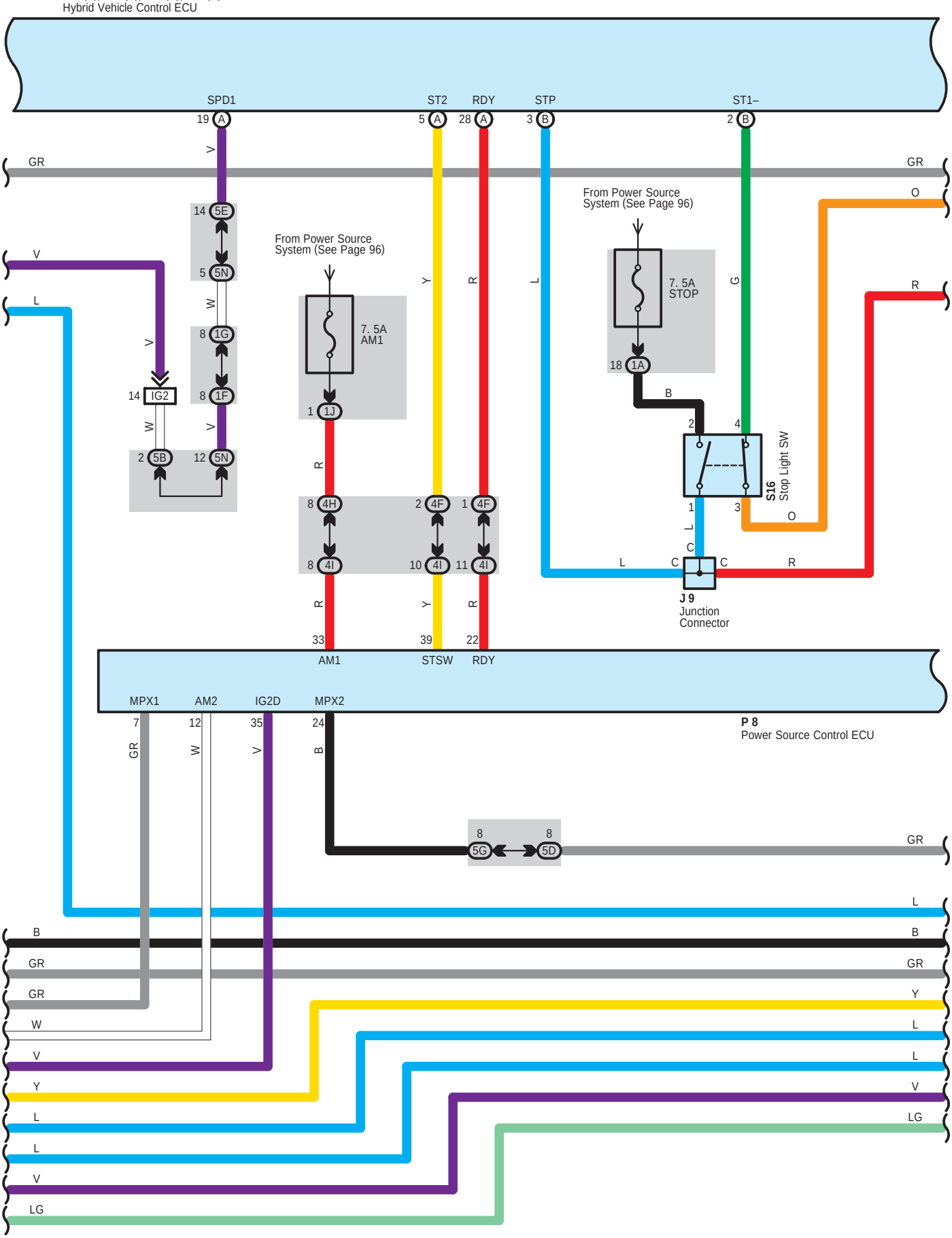
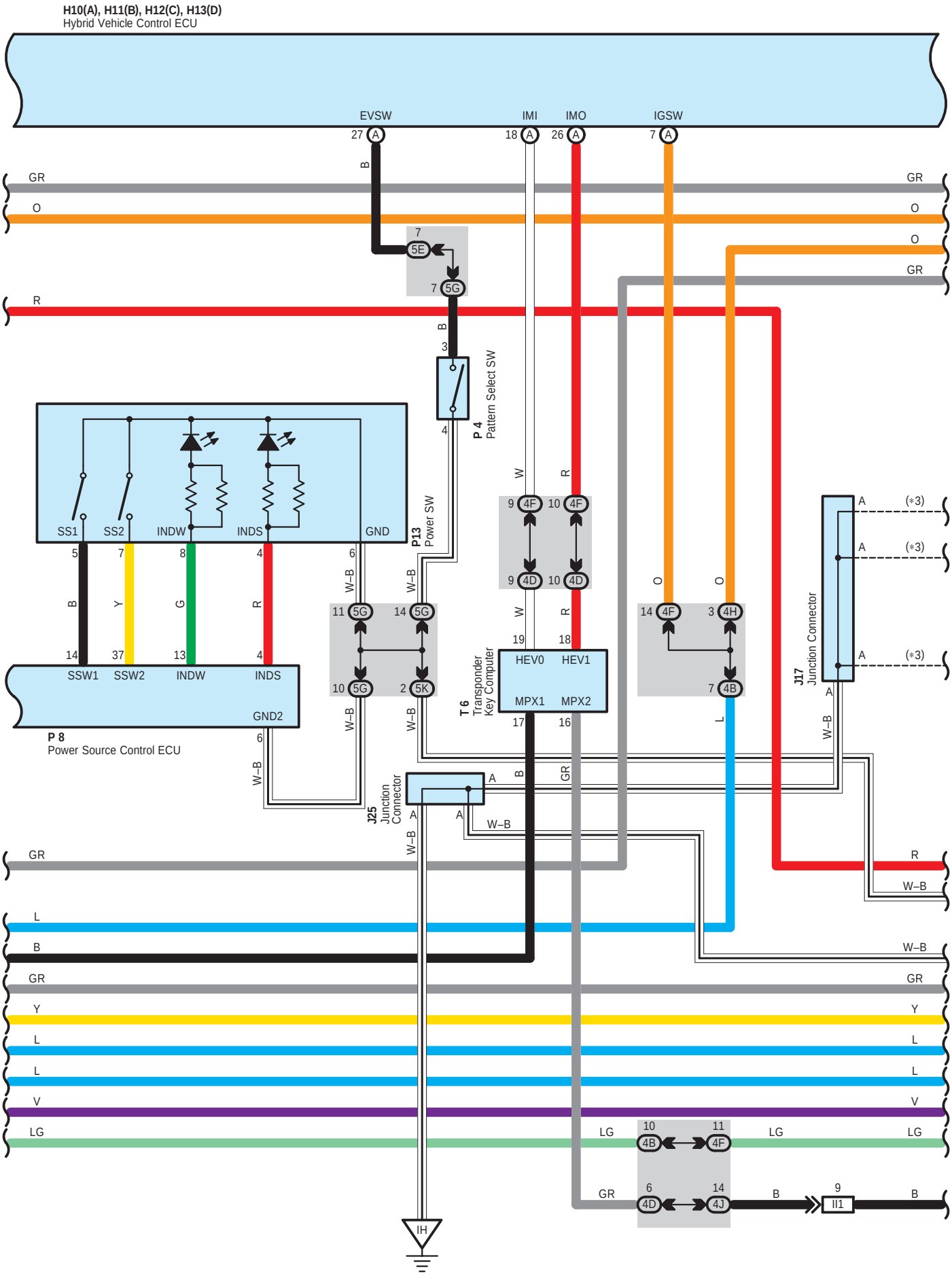
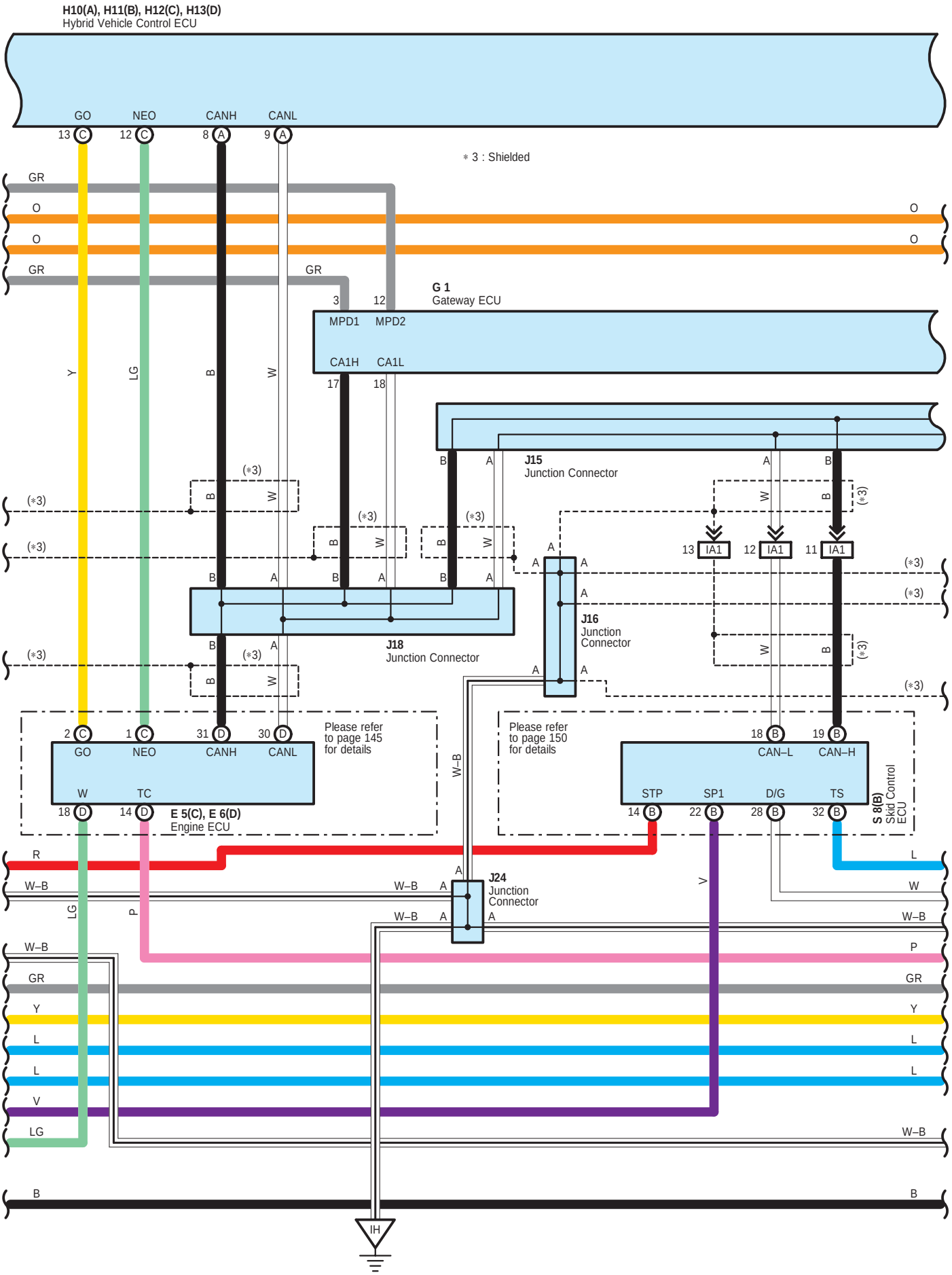

H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
NODD
VLO
MREL
24 C
31 C
4 C
From Power Source System (See Page 96)
20A HEV
15A AM2
40A HTR
100A DC/DC
AMD
NODD
VLO
S
IGCT
ID1
C 5(A), C 6(B)
Converter
IGCT Relay
INV W/P Relay
IA1
IA2
5M
5I
BE1
IN1
3D
3C
3E
3M
3J
1A
1E
1G
3I
4K
4J
4I
W 2
Water Pump
Motor (Inverter)
S26(A), S27(B)
Short Connector
(Water Pump)
5A
DC/DC–S
120A
MAIN
F15(A), F16(B)
Fusible Link Block
Battery
E 3
EE
IH
W–B


H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
From Power Source System (See Page 96)
From Power Source System (See Page 96)
10A GAUGE
HTR Relay
15A DOME
J 6
Junction Connector
A10(A), A11(B)
A/C Control Assembly
MPX+
MPX2+
HR
IDH
TR
SGTR
RH
S5RM
THR
GND
VO
S5
A12
A/C Room Temp. Sensor
C10
Combination Meter
Power Supply Circuit
(VFD)
Buzzer
EV
Master
BEAN IC
IG1
IG2

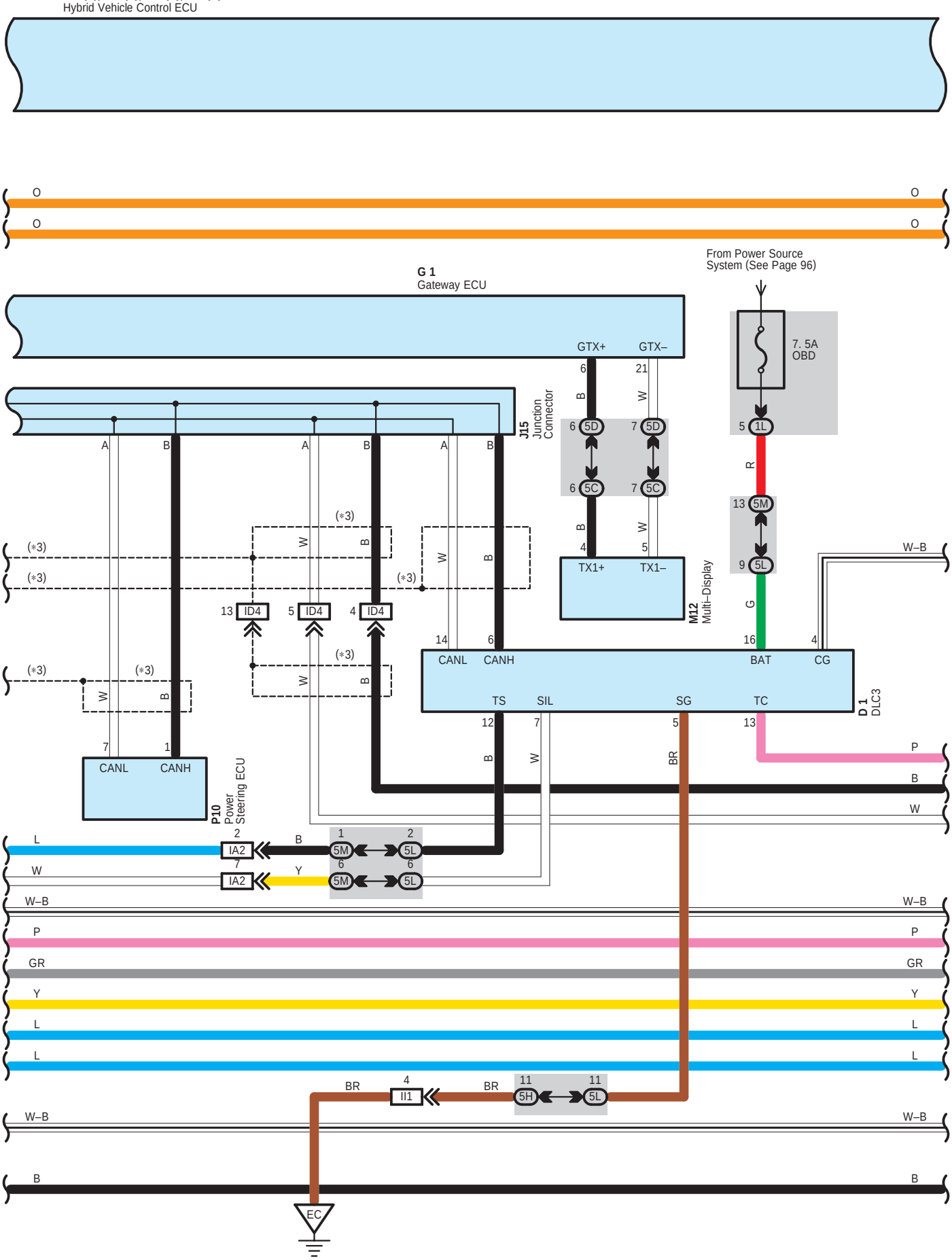

H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
＊1 : w/ Smart Entry System
＊2 : w/o Smart Entry System
C10
Combination Meter
Check Engine
S11
Smart Key ECU
MPX1
MPX2
B 5(A)
Body ECU
MPX1
TRLY
MPX2
DCTY
T–LP Relay
D 5
Door Courtesy SW
(Driver's Side)
IG1
IA3
II1

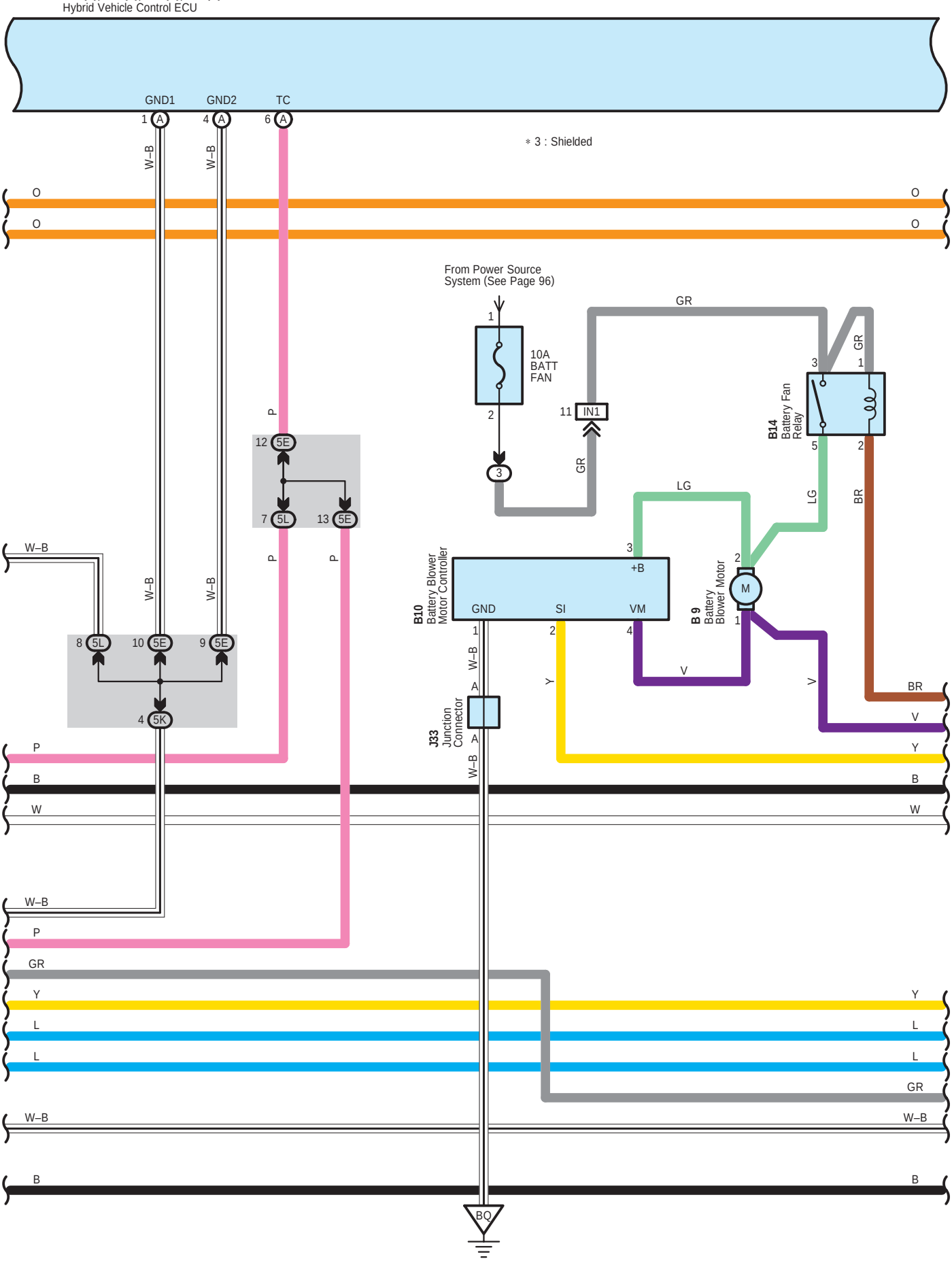

H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
SPD1
ST2
RDY
STP
ST1–
19 A
5 A
28 A
3 B
2 B
GR
V
L
O
R
Y
W
G
14 5E
5 5N
8 1G
8 1F
14 IG2
2 5B
12 5N
From Power Source System (See Page 96)
7. 5A AM1
1 1J
From Power Source System (See Page 96)
7. 5A STOP
18 1A
B
2
4
1
3
S16
Stop Light SW
L
C
J 9
Junction Connector
8 4H
8 4I
2 4F
10 4I
1 4F
11 4I
33
39
22
AM1
STSW
RDY
MPX1
AM2
IG2D
MPX2
7
12
35
24
P 8
Power Source Control ECU
8 5G
8 5D
B
LG

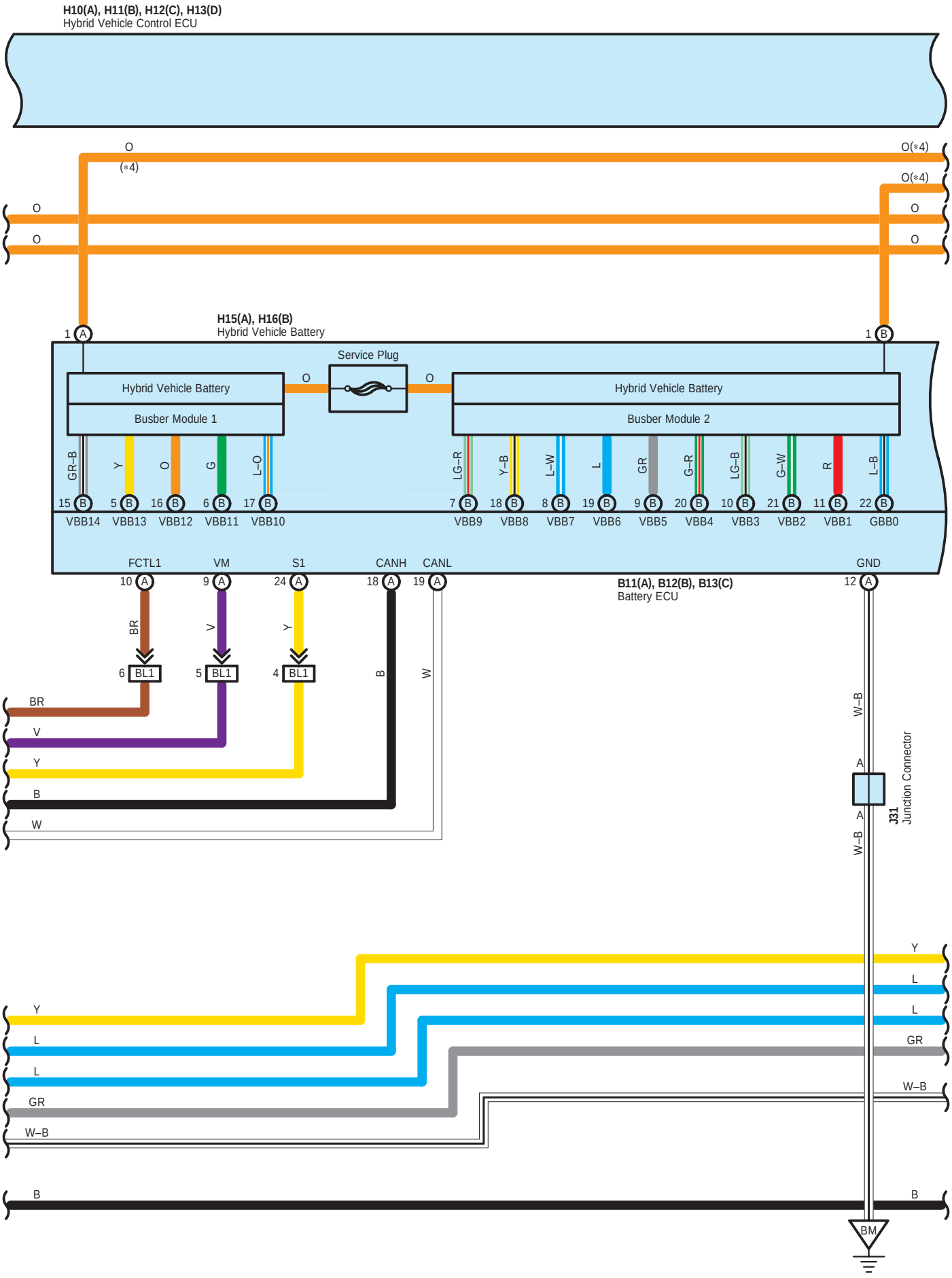

H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
EVSW
IMI
IMO
IGSW
27 A
18 A
26 A
7 A
GR
O
R
B
7
5E
7
5G
3
P 4
Pattern Select SW
4
W
R
9 4F
10 4F
9 4D
10 4D
O
GR
SS1
SS2
INDW
INDS
GND
P13
Power SW
5
7
8
4
6
B
Y
G
R
W–B
11 5G
14 5G
10 5G
2 5K
14
37
13
4
SSW1
SSW2
INDW
INDS
GND2
P 8
Power Source Control ECU
6
W–B
19
18
HEV0
HEV1
MPX1
MPX2
17
16
T 6
Transponder Key Computer
14 4F
3 4H
7 4B
L
J17
Junction Connector
A
(*3)
J25
Junction Connector
A
B
GR
W–B
L
B
Y
V
LG
10 4B
11 4F
6 4D
14 4J
9
II1
IH

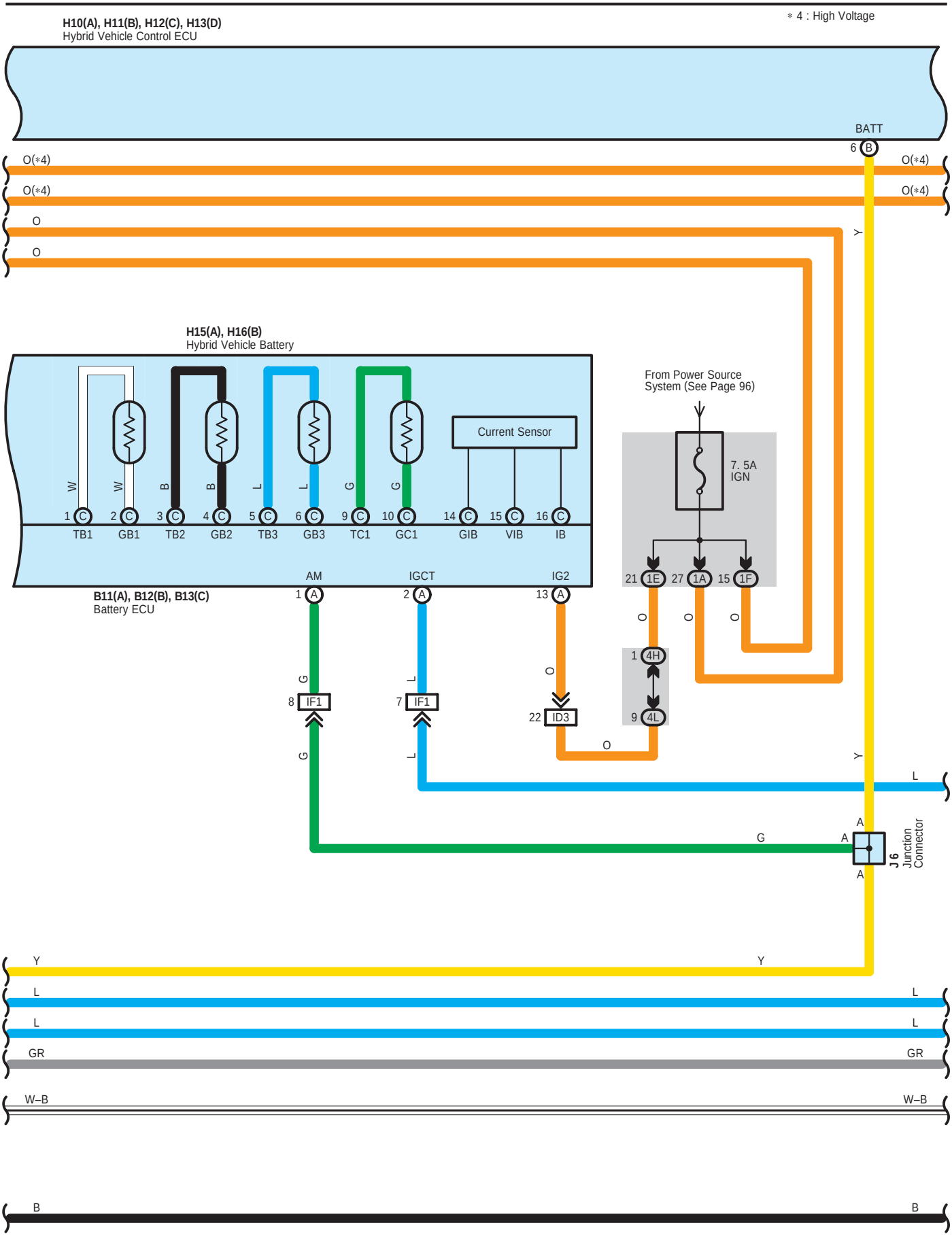

H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
GO
NEO
CANH
CANL
13 C
12 C
8 A
9 A
∗3 : Shielded
GR
O
O
GR
G 1
Gateway ECU
3
12
MPD1
MPD2
CA1H
CA1L
17
18
Y
LG
B
W
J15
Junction Connector
(∗3)
J18
Junction Connector
J16
Junction
Connector
13 IA1
12 IA1
11 IA1
2 C
1 C
31 D
30 D
GO
NEO
CANH
CANL
W
TC
18 D
14 D
E 5(C), E 6(D)
Engine ECU
Please refer
to page 145
for details
Please refer
to page 150
for details
W–B
18 B
19 B
CAN–L
CAN–H
STP
SP1
D/G
TS
14 B
22 B
28 B
32 B
S 8(B)
Skid Control
ECU
J24
Junction
Connector
R
L
W
P
V
GR
Y
L
L
V
LG
B
IH

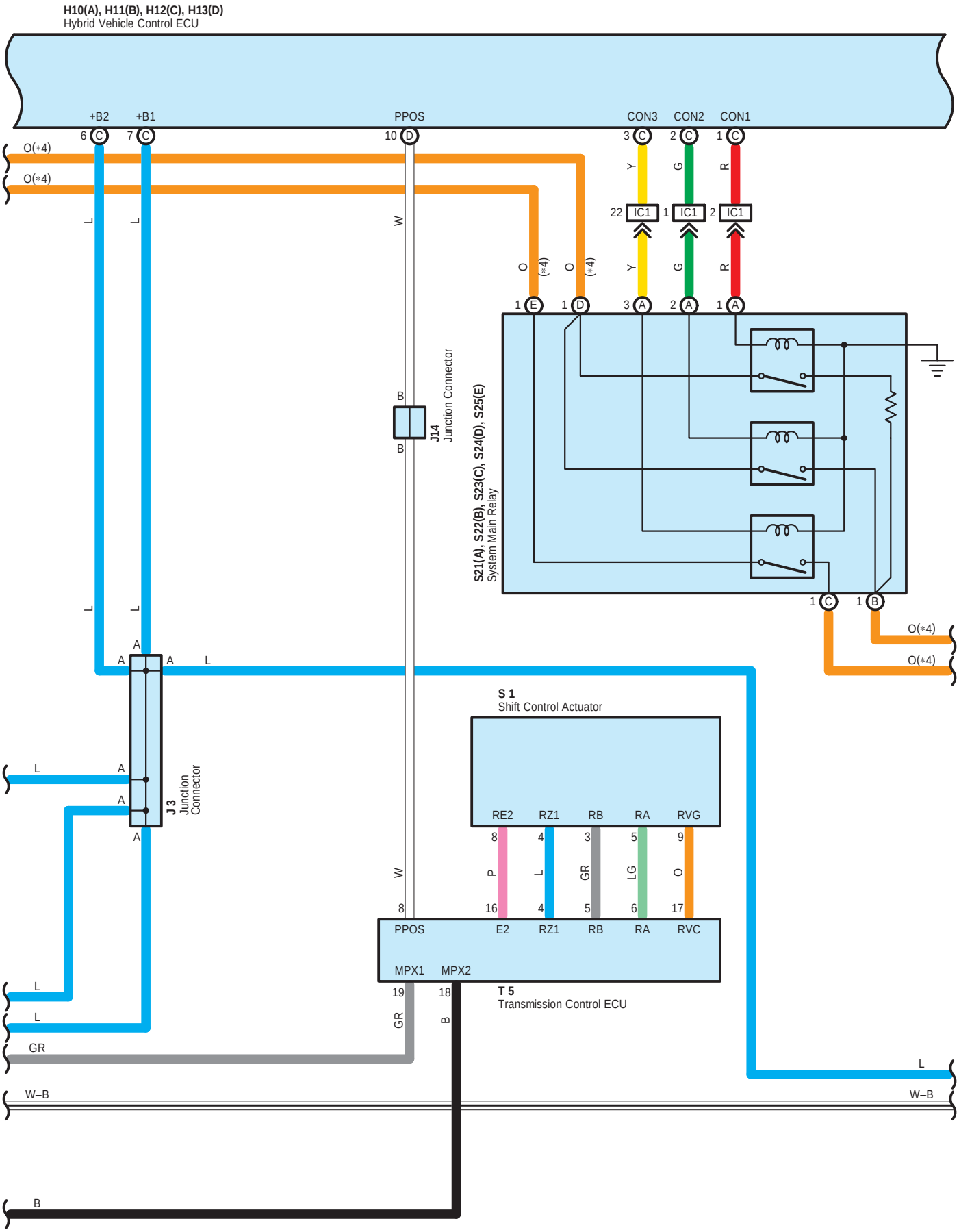
H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU

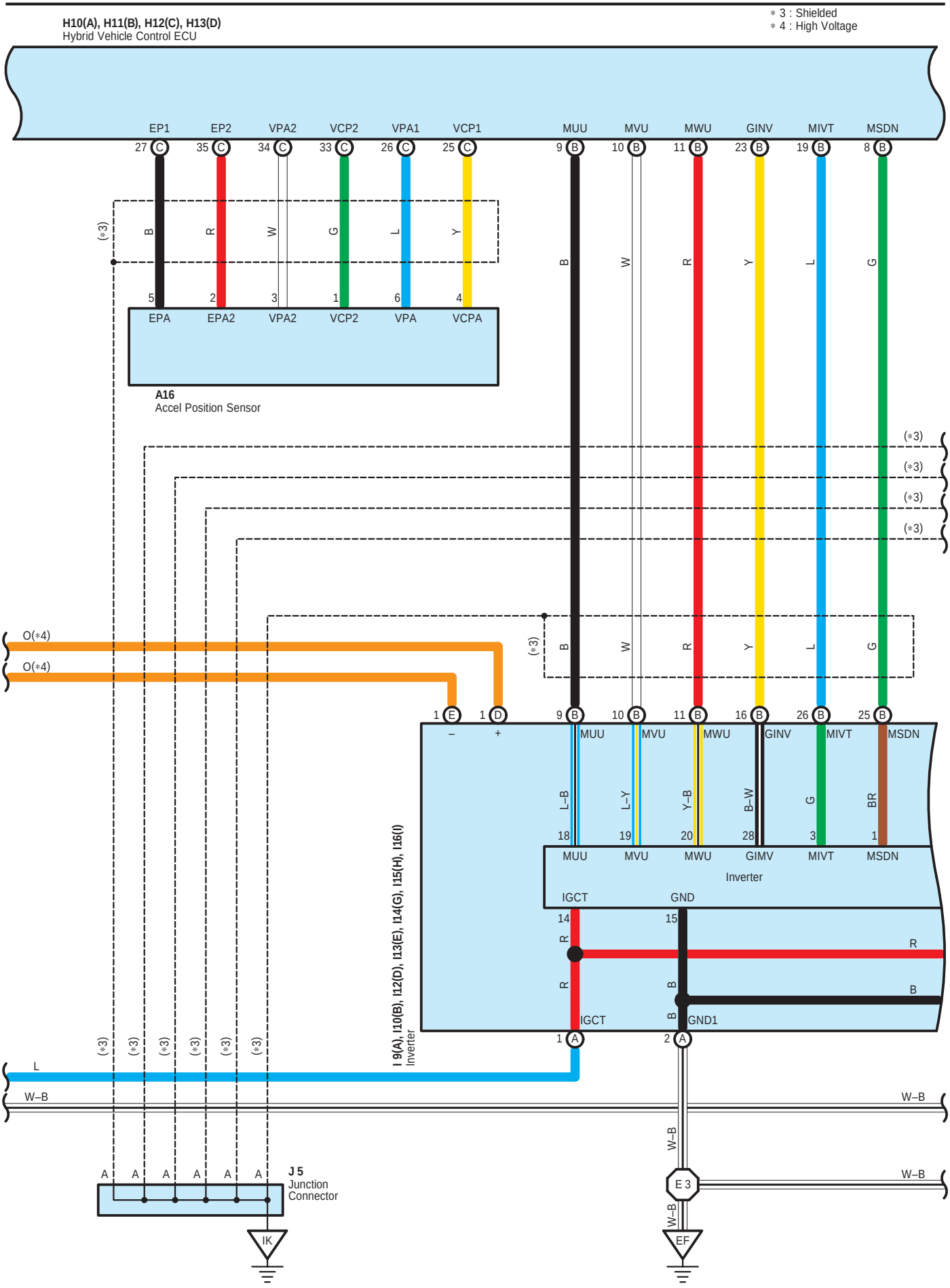



H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
GND1
GND2
TC
1 A
4 A
6 A
* 3 : Shielded
W–B
O
P
From Power Source System (See Page 96)
10A BATT FAN
GR
IN1
11
B14 Battery Fan Relay
LG
BR
B10 Battery Blower Motor Controller
GND
SI
VM
+B
B 9 Battery Blower Motor
M
J33 Junction Connector
Y
V
B
W
L
BQ
12 5E
7 5L
13 5E
8 5L
10 5E
9 5E
4 5K


H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
O
(*4)
O(*4)
O
O
H15(A), H16(B)
Hybrid Vehicle Battery
Service Plug
Hybrid Vehicle Battery
Busber Module 1
Hybrid Vehicle Battery
Busber Module 2
GR–B
Y
O
G
L–O
LG–R
Y–B
L–W
L
GR
G–R
LG–B
G–W
R
L–B
VBB14
VBB13
VBB12
VBB11
VBB10
VBB9
VBB8
VBB7
VBB6
VBB5
VBB4
VBB3
VBB2
VBB1
GBB0
FCTL1
VM
S1
CANH
CANL
GND
B11(A), B12(B), B13(C)
Battery ECU
BL1
BR
V
Y
B
W
W–B
J31
Junction Connector
L
GR
BM

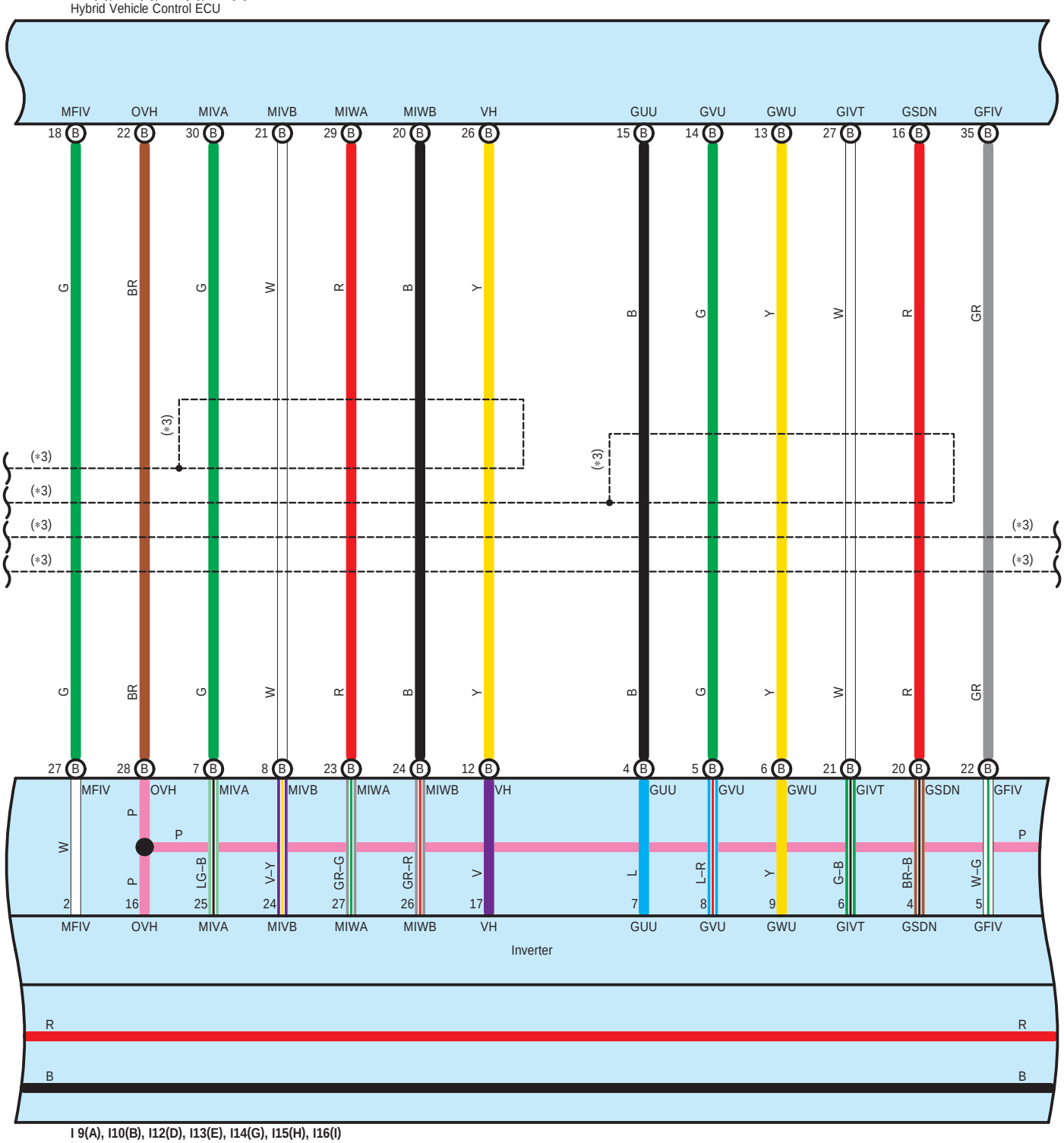

H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
∗ 4 : High Voltage
BATT
6 B
O(∗4)
O(∗4)
O
O
O(∗4)
O(∗4)
Y
H15(A), H16(B)
Hybrid Vehicle Battery
W
W
B
B
L
L
G
G
1 C
2 C
3 C
4 C
5 C
6 C
9 C
10 C
TB1
GB1
TB2
GB2
TB3
GB3
TC1
GC1
Current Sensor
14 C
15 C
16 C
GIB
VIB
IB
From Power Source System (See Page 96)
7. 5A IGN
21 1E
27 1A
15 1F
O
O
O
1 4H
9 4L
AM
IGCT
IG2
1 A
2 A
13 A
B11(A), B12(B), B13(C)
Battery ECU
G
L
O
8 IF1
7 IF1
22 ID3
O
G
L
Y
L
G
A
A
A
J6
Junction Connector
Y
Y
L
L
L
L
GR
GR
W–B
W–B
B
B


H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
+B2
+B1
PPOS
CON3
CON2
CON1
6 C
7 C
10 D
3 C
2 C
1 C
O(*4)
O(*4)
L
L
W
Y
G
R
22 IC1
1 IC1
2 IC1
O (*4)
O (*4)
1 E
1 D
3 A
2 A
1 A
B
B
J14
Junction Connector
S21(A), S22(B), S23(C), S24(D), S25(E)
System Main Relay
1 C
1 B
O(*4)
O(*4)
A
A
A
L
L
L
L
A
A
A
J3
Junction
Connector
S 1
Shift Control Actuator
RE2
RZ1
RB
RA
RVG
8
4
3
5
9
P
L
GR
LG
O
16
4
5
6
17
W
8
PPOS
E2
RZ1
RB
RA
RVC
MPX1
MPX2
19
18
GR
B
T 5
Transmission Control ECU
L
L
GR
L
W–B
W–B
B

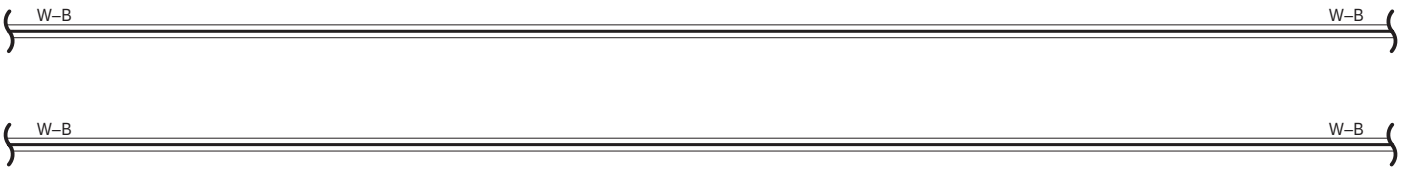

H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
∗ 3 : Shielded
∗ 4 : High Voltage
EP1
EP2
VPA2
VCP2
VPA1
VCP1
MUU
MVU
MWU
GINV
MIVT
MSDN
27 C
35 C
34 C
33 C
26 C
25 C
9 B
10 B
11 B
23 B
19 B
8 B
(∗3)
B
R
W
G
L
Y
5
2
3
1
6
4
EPA
EPA2
VPA2
VCP2
VPA
VCPA
A16
Accel Position Sensor
(∗3)
(∗3)
(∗3)
(∗3)
O(∗4)
O(∗4)
1 E
1 D
9 B
10 B
11 B
16 B
26 B
25 B
–
+
MUU
MVU
MWU
GINV
MIVT
MSDN
L–B
L–Y
Y–B
B–W
G
BR
18
19
20
28
3
1
Inverter
IGCT
GND
14
15
R
B
IGCT
GND1
1 A
2 A
I 9(A), I10(B), I12(D), I13(E), I14(G), I15(H), I16(I)
Inverter
L
W–B
W–B
W–B
W–B
E 3
EF
A
J 5
Junction
Connector
IK

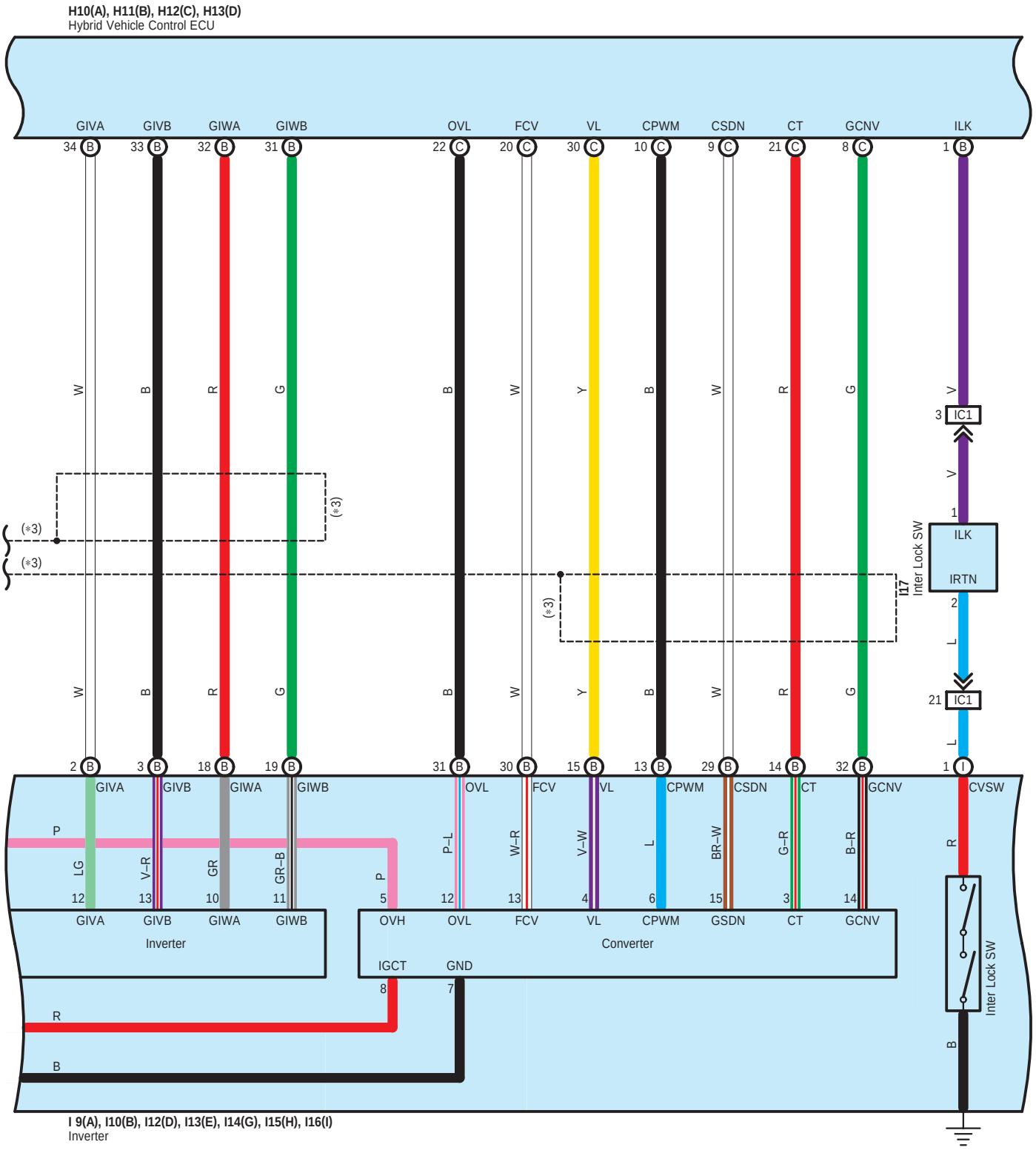
∗ 3 : Shielded

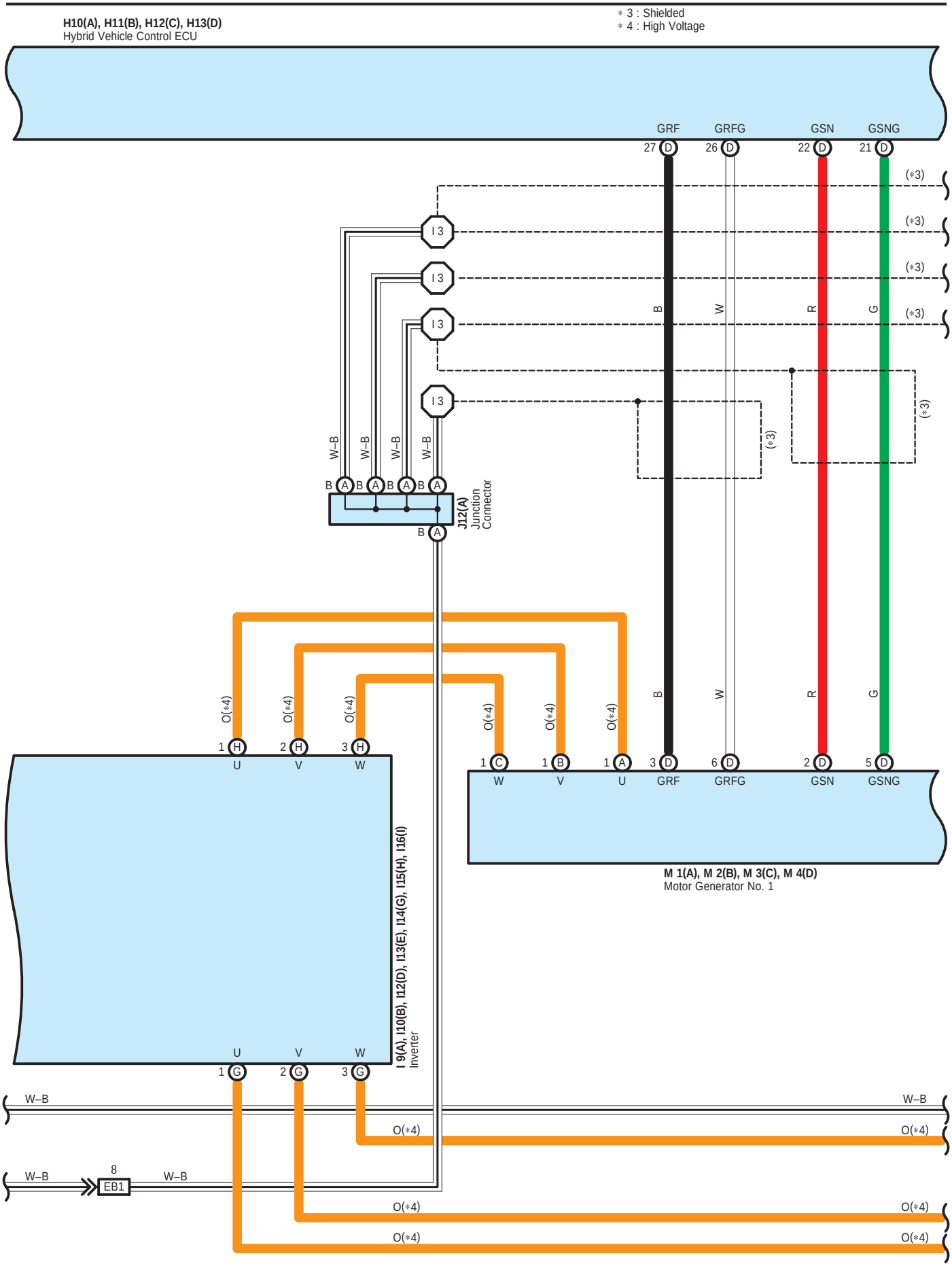
H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU

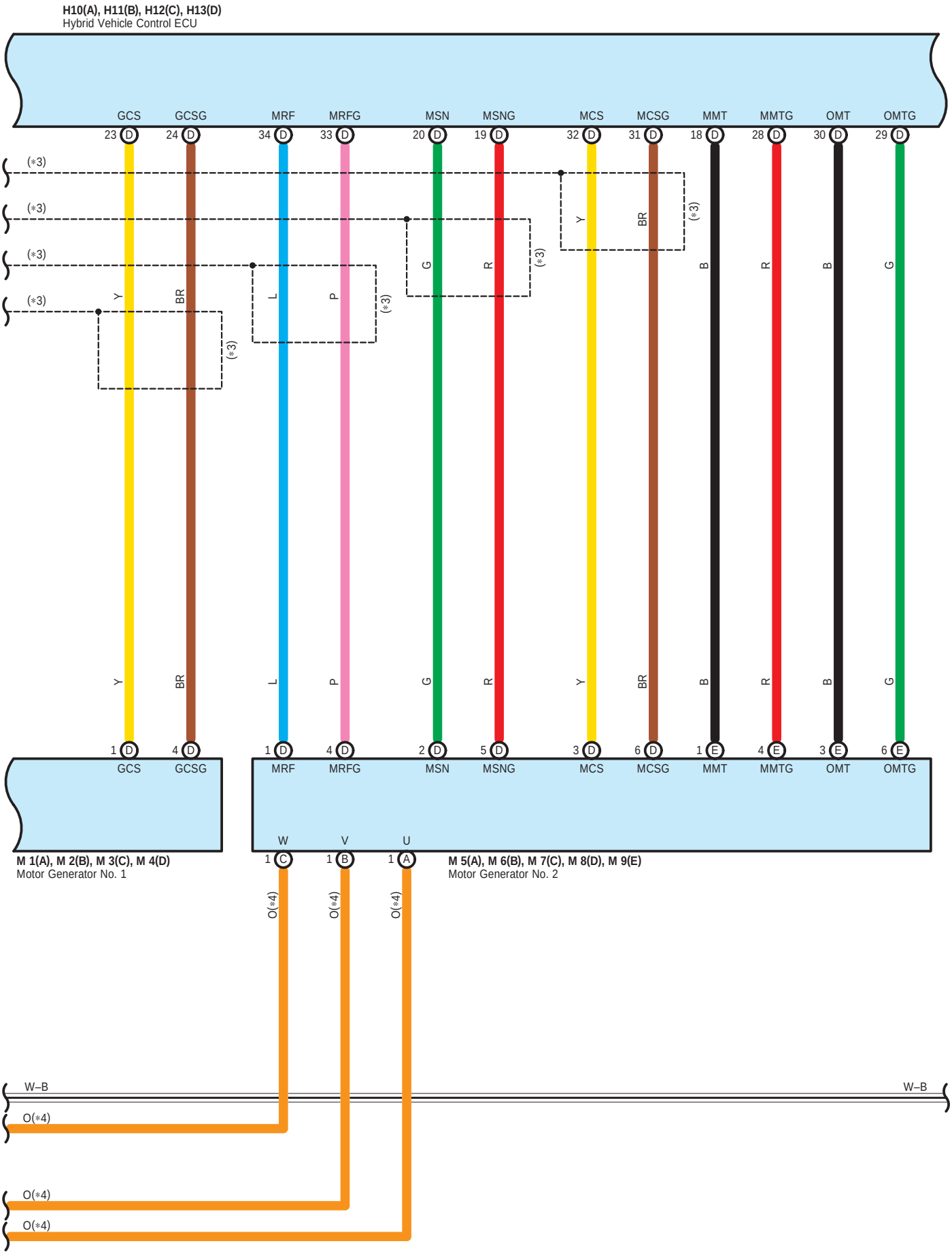


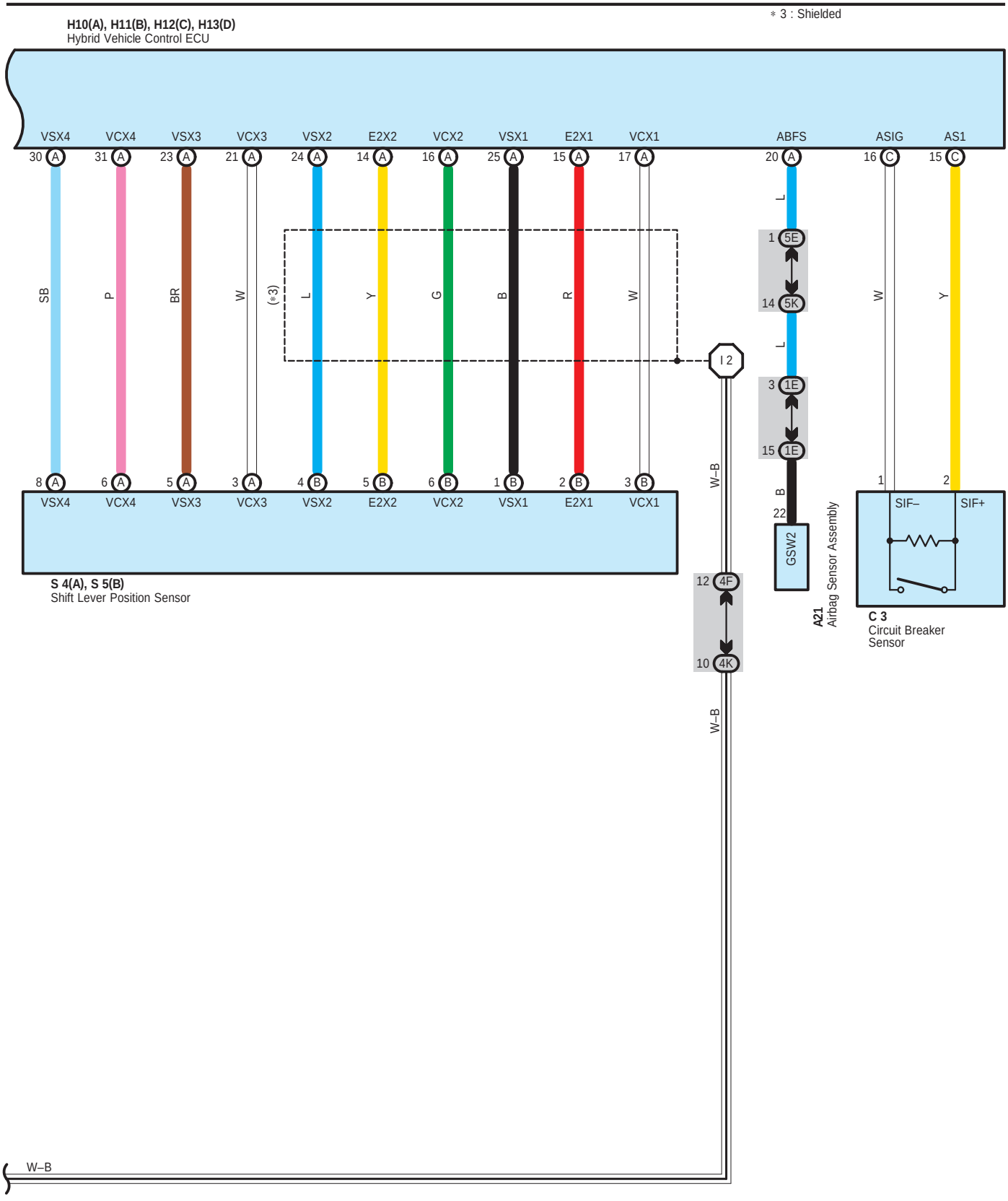
I 9(A), I10(B), I12(D), I13(E), I14(G), I15(H), I16(I)
Inverter

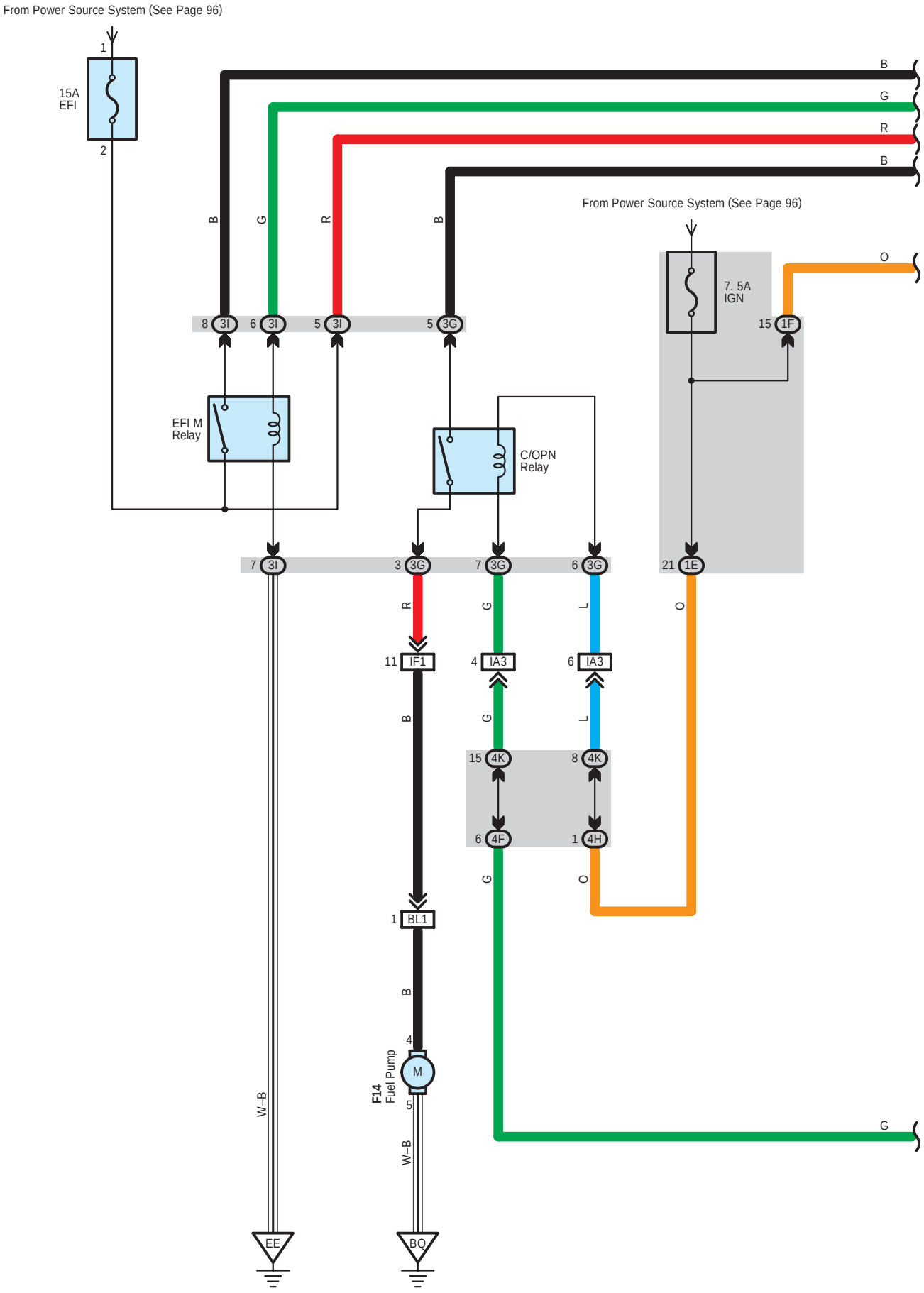


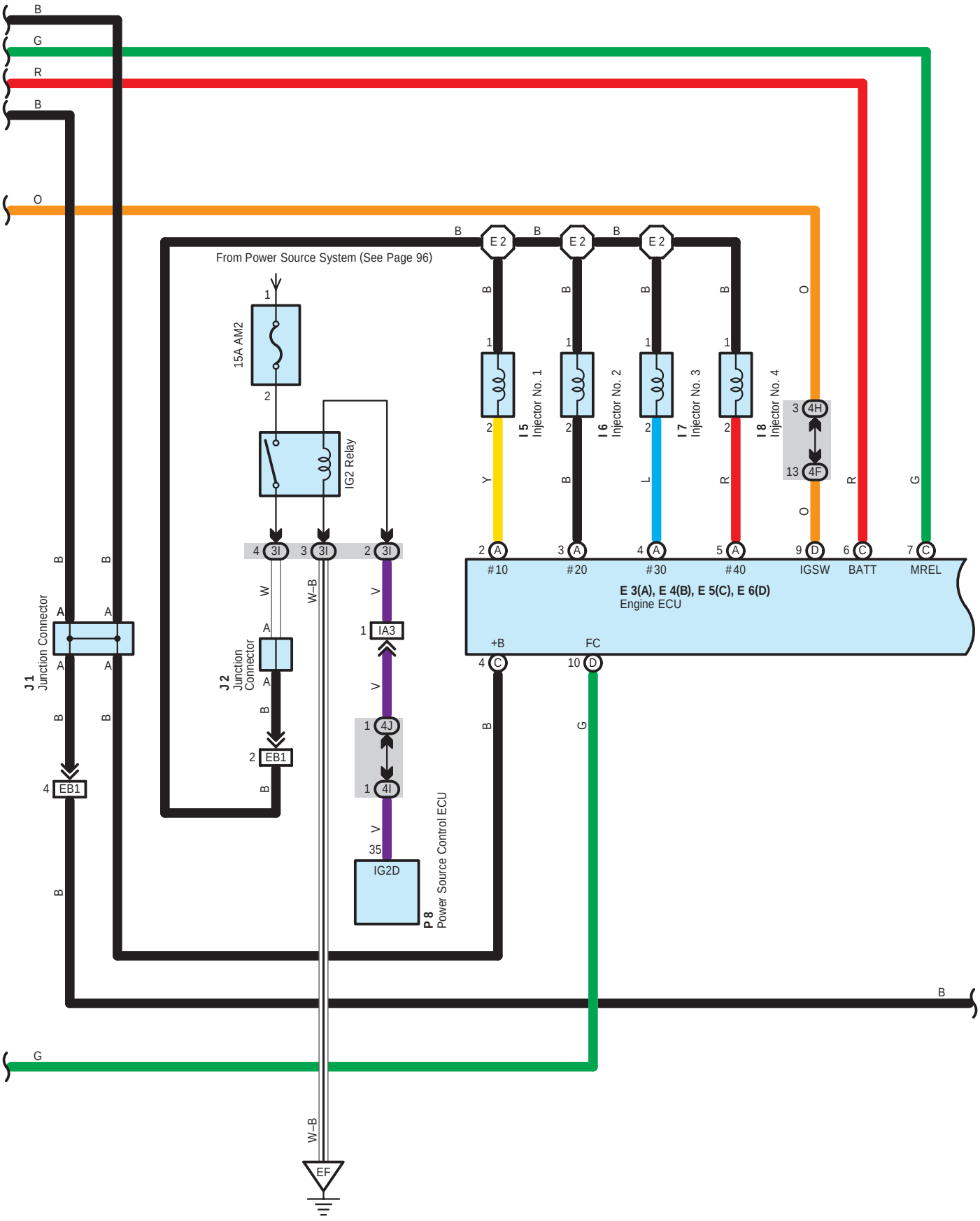

H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
GIVA
GIVB
GIWA
GIWB
OVL
FCV
VL
CPWM
CSDN
CT
GCNV
ILK
34 B
33 B
32 B
31 B
22 C
20 C
30 C
10 C
9 C
21 C
8 C
1 B
W
B
R
G
Y
V
3 IC1
1
ILK
IRTN
Inter Lock SW
I17
2
L
21 IC1
(*3)
2 B
3 B
18 B
19 B
31 B
30 B
15 B
13 B
29 B
14 B
32 B
1 I
CVSW
P
LG
V–R
GR
GR–B
P–L
W–R
V–W
L
BR–W
G–R
B–R
12
13
10
11
5
12
13
4
6
15
3
14
OVH
IGCT
GND
8
7
Inverter
Converter
GSDN
R
B
Inter Lock SW
I 9(A), I10(B), I12(D), I13(E), I14(G), I15(H), I16(I)
Inverter
W–B
W–B
W–B
W–B


H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
∗ 3 : Shielded
∗ 4 : High Voltage
GRF
GRFG
GSN
GSNG
27 D
26 D
22 D
21 D
(∗3)
I 3
B
W
R
G
W–B
B A B A B A B A
J12(A)
Junction
Connector
B A
O(∗4)
1 H U
2 H V
3 H W
1 C W
1 B V
1 A U
3 D GRF
6 D GRFG
2 D GSN
5 D GSNG
M 1(A), M 2(B), M 3(C), M 4(D)
Motor Generator No. 1
I 9(A), I10(B), I12(D), I13(E), I14(G), I15(H), I16(I)
Inverter
U
V
W
1 G
2 G
3 G
W–B
O(∗4)
8
EB1

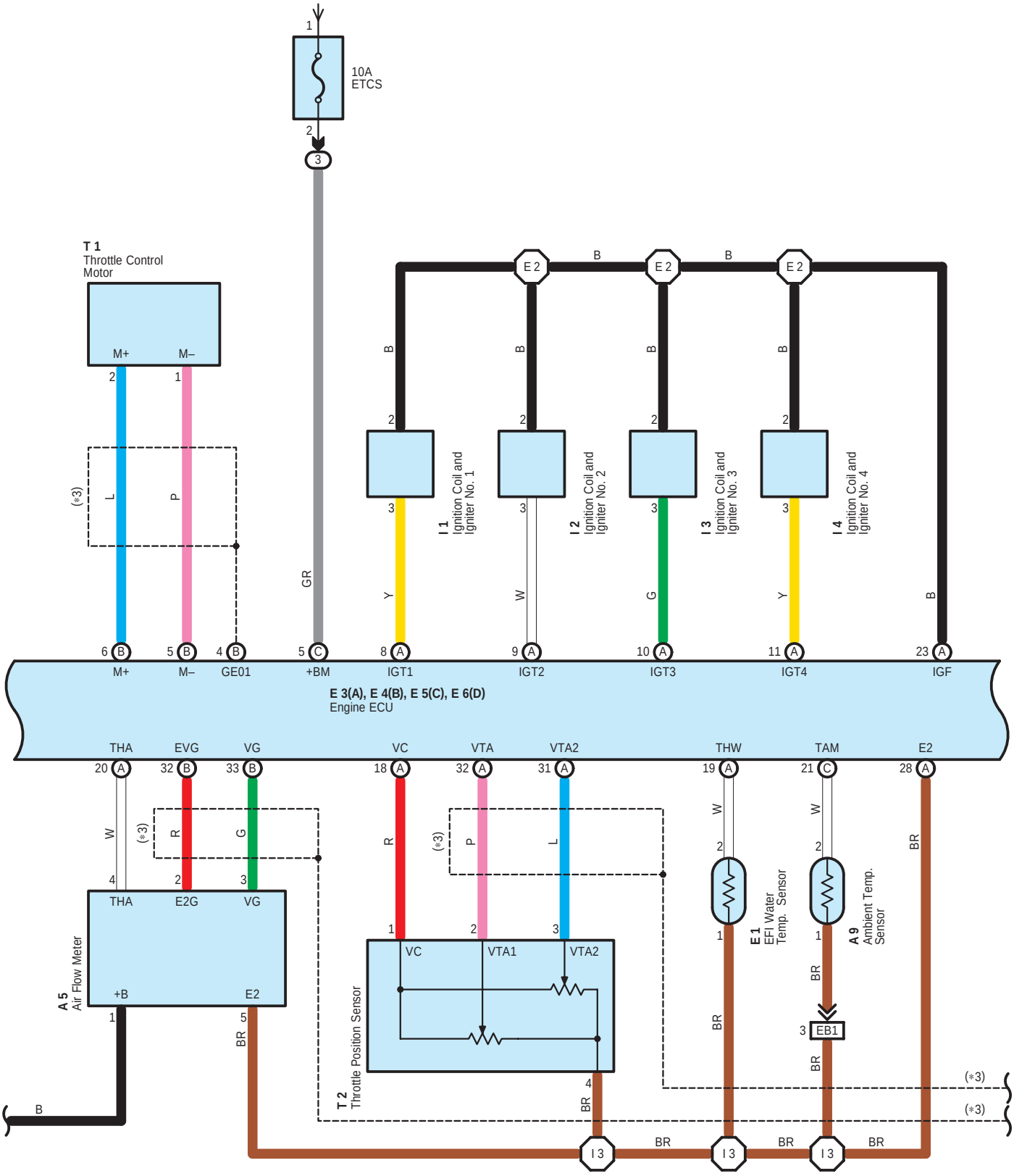

H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
GCS
GCSG
MRF
MRFG
MSN
MSNG
MCS
MCSG
MMT
MMTG
OMT
OMTG
23 D
24 D
34 D
33 D
20 D
19 D
32 D
31 D
18 D
28 D
30 D
29 D
(*3)
Y
BR
L
P
G
R
B
1 D
4 D
1 D
4 D
2 D
5 D
3 D
6 D
1 E
4 E
3 E
6 E
M 1(A), M 2(B), M 3(C), M 4(D)
Motor Generator No. 1
M 5(A), M 6(B), M 7(C), M 8(D), M 9(E)
Motor Generator No. 2
W
V
U
1 C
1 B
1 A
O(*4)
W–B


∗ 3 : Shielded
H10(A), H11(B), H12(C), H13(D)
Hybrid Vehicle Control ECU
VSX4 VCX4 VSX3 VCX3 VSX2 E2X2 VCX2 VSX1 E2X1 VCX1
ABFS ASIG AS1
30 A 31 A 23 A 21 A 24 A 14 A 16 A 25 A 15 A 17 A
20 A 16 C 15 C
SB P BR W (*3) L Y G B R W
L B W W Y
1 5E 14 5K 3 1E 15 1E 22
GSW2
I 2
W–B
12 4F 10 4K
8 A 6 A 5 A 3 A 4 B 5 B 6 B 1 B 2 B 3 B
VSX4 VCX4 VSX3 VCX3 VSX2 E2X2 VCX2 VSX1 E2X1 VCX1
S 4(A), S 5(B)
Shift Lever Position Sensor
A21
Airbag Sensor Assembly
1 2
SIF– SIF+
C 3
Circuit Breaker
Sensor
W–B


From Power Source System (See Page 96)
1
15A
EFI
2
B
G
R
B
From Power Source System (See Page 96)
7. 5A
IGN
O
15 1F
8 3I
6 3I
5 3I
5 3G
EFI M
Relay
C/OPN
Relay
7 3I
3 3G
7 3G
6 3G
21 1E
R
G
L
O
11 IF1
4 IA3
6 IA3
B
G
L
15 4K
8 4K
6 4F
1 4H
G
O
1 BL1
B
4
M
F14
Fuel Pump
5
W–B
W–B
G
EE
BQ

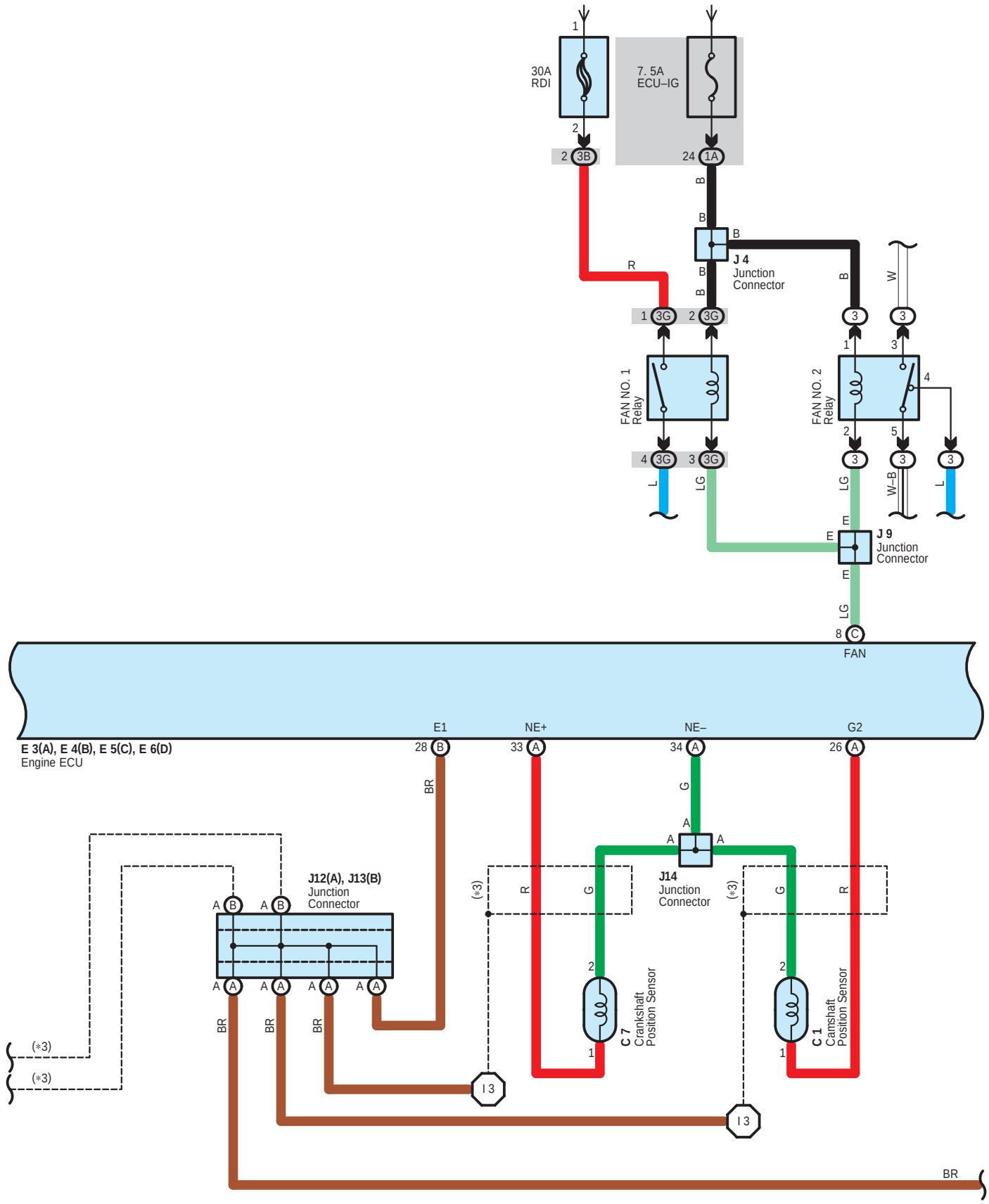

From Power Source System (See Page 96)
15A AM2
IG2 Relay
J1 Junction Connector
J2 Junction Connector
I5 Injector No. 1
I6 Injector No. 2
I7 Injector No. 3
I8 Injector No. 4
E 3(A), E 4(B), E 5(C), E 6(D) Engine ECU
#10
#20
#30
#40
IGSW
BATT
MREL
+B
FC
IA3
IG2D
P8 Power Source Control ECU
EB1
EF
W–B

∗ 3 : Shielded

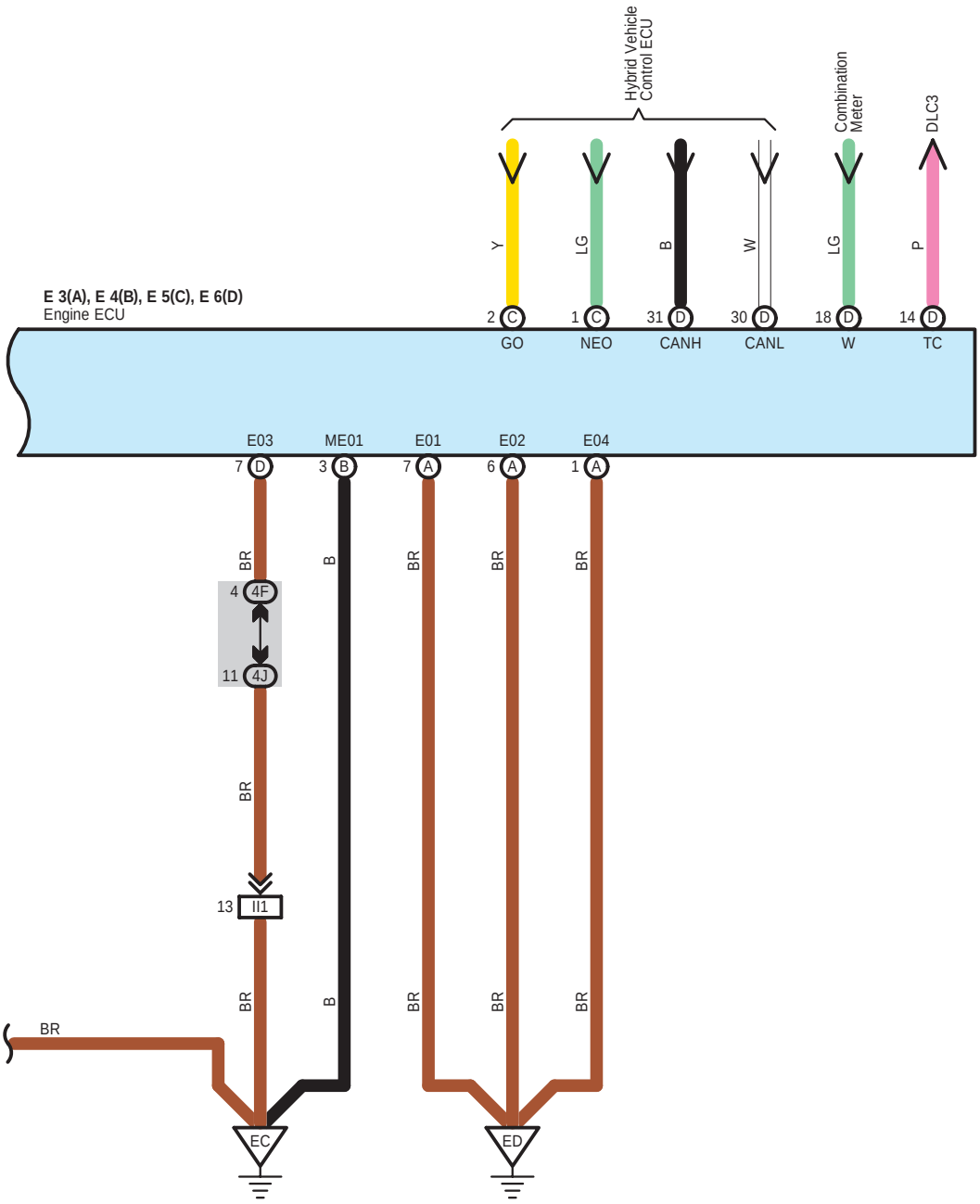

10A
ETCS
T 1
Throttle Control
Motor
M+
M–
(∗3)
GR
E 2
B
I 1
Ignition Coil and
Igniter No. 1
I 2
Ignition Coil and
Igniter No. 2
I 3
Ignition Coil and
Igniter No. 3
I 4
Ignition Coil and
Igniter No. 4
M+
M–
GE01
+BM
IGT1
IGT2
IGT3
IGT4
IGF
E 3(A), E 4(B), E 5(C), E 6(D)
Engine ECU
THA
EVG
VG
VC
VTA
VTA2
THW
TAM
E2
A 5
Air Flow Meter
E2G
+B
T 2
Throttle Position Sensor
VTA1
E 1
EFI Water
Temp. Sensor
A 9
Ambient Temp.
Sensor
EB1
I 3

[Details of Engine ECU Section]

From Power Source System (See Page 96)

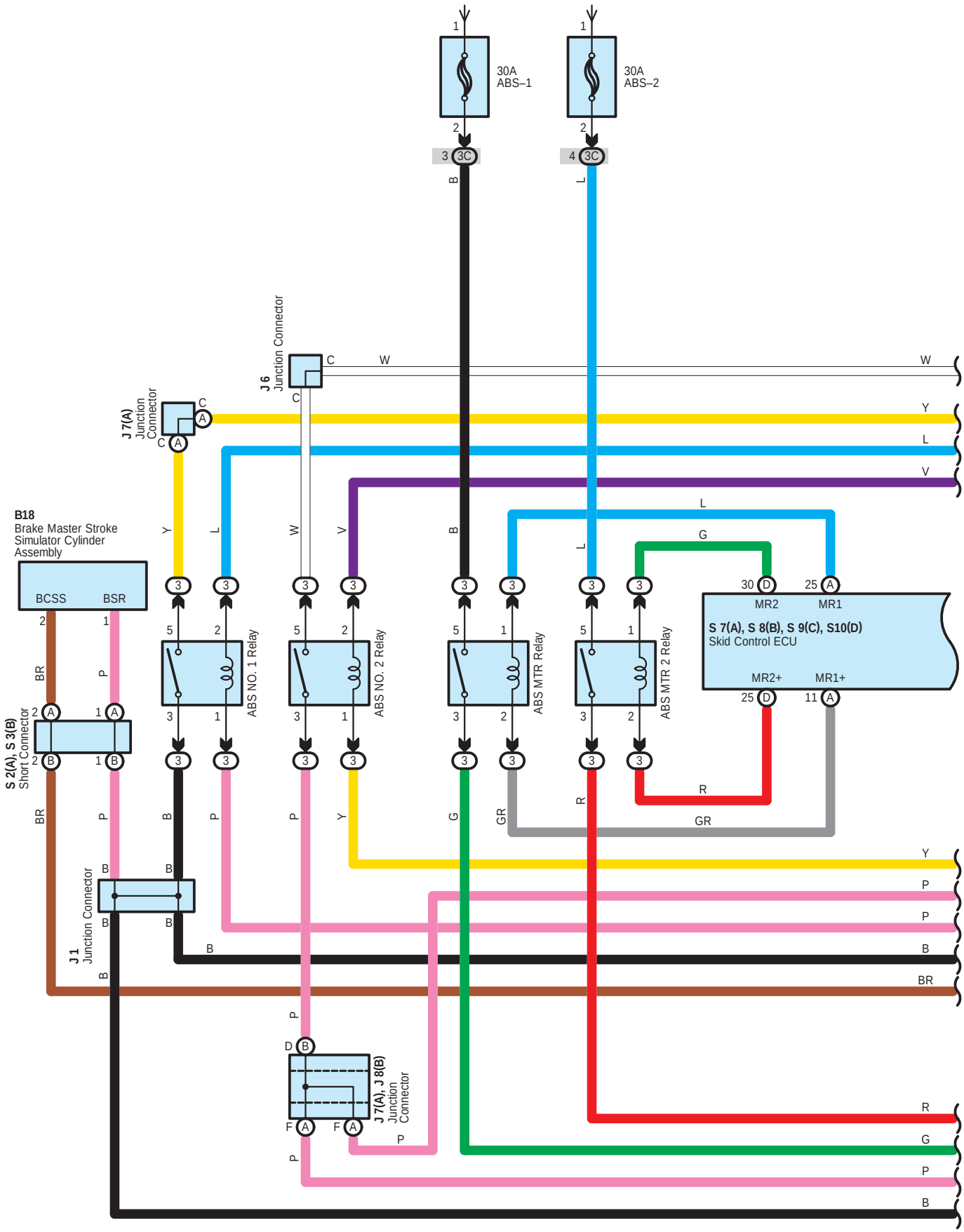


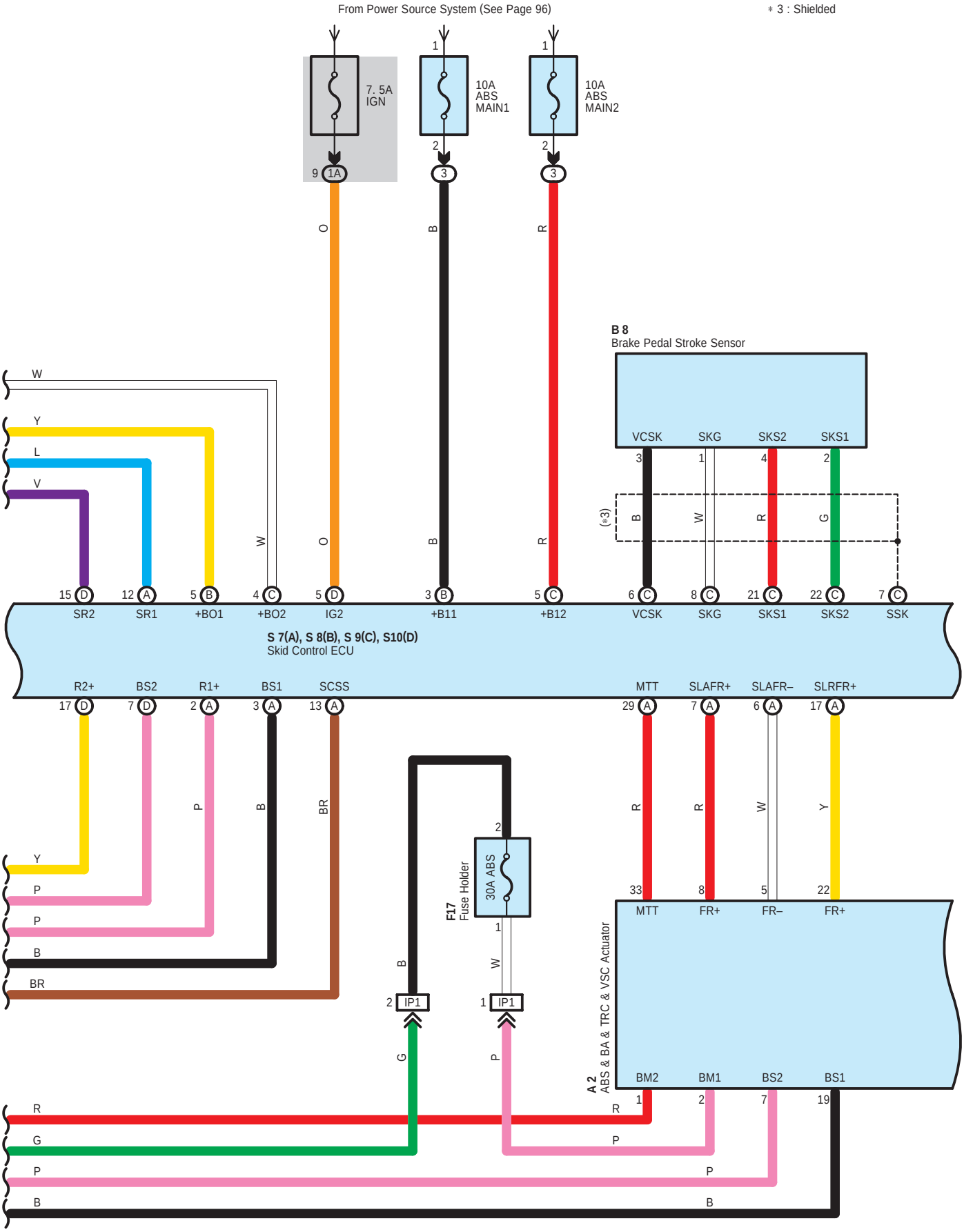
∗ 3 : Shielded


Hybrid Vehicle Control ECU
Combination Meter
DLC3
Y
LG
B
W
LG
P
E 3(A), E 4(B), E 5(C), E 6(D)
Engine ECU
2 C GO
1 C NEO
31 D CANH
30 D CANL
18 D W
14 D TC
E03
ME01
E01
E02
E04
7 D
3 B
7 A
6 A
1 A
BR
B
4 4F
11 4J
13 II1
EC
ED

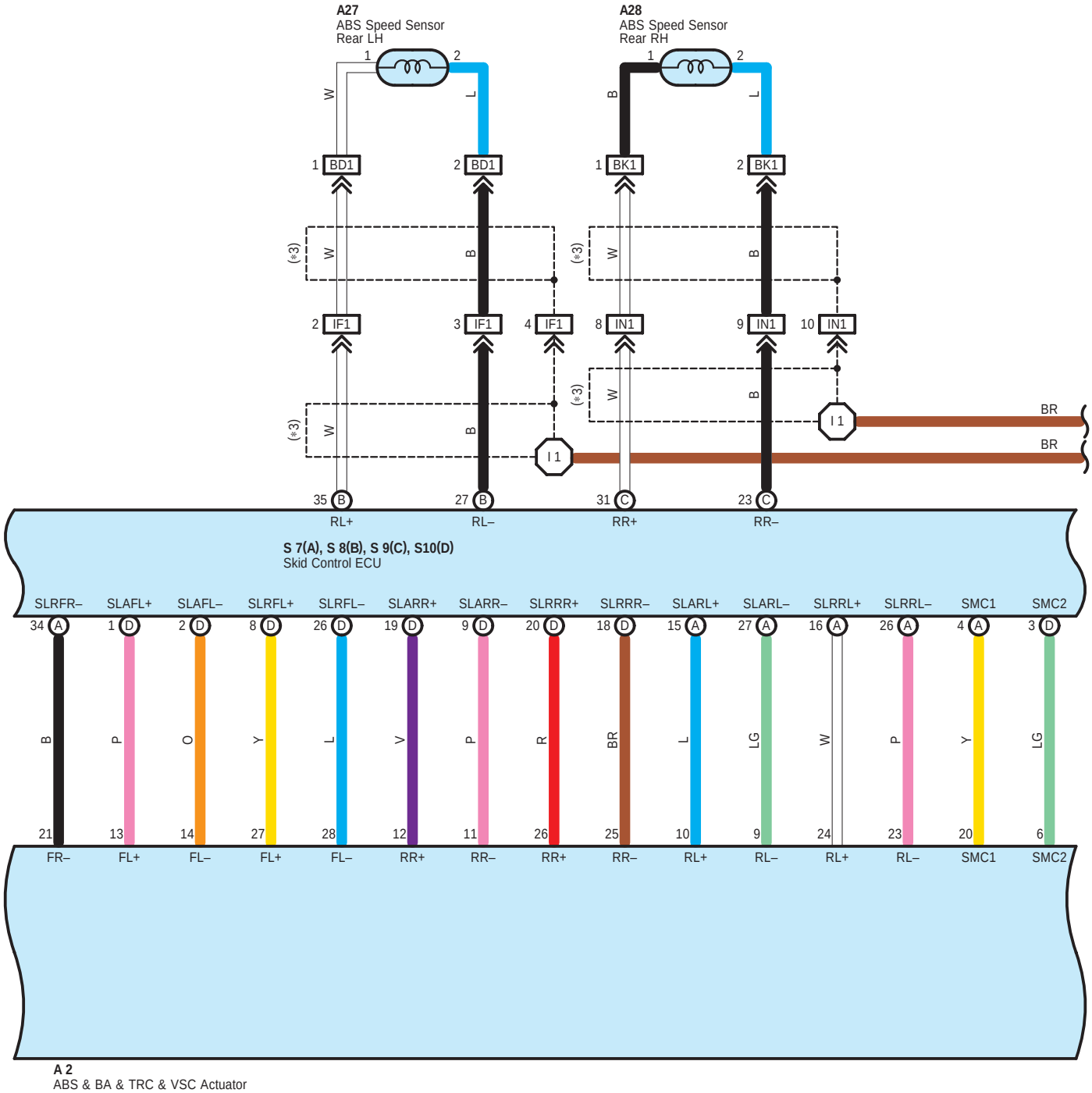
[Details of Skid Control ECU Section]

From Power Source System (See Page 96)

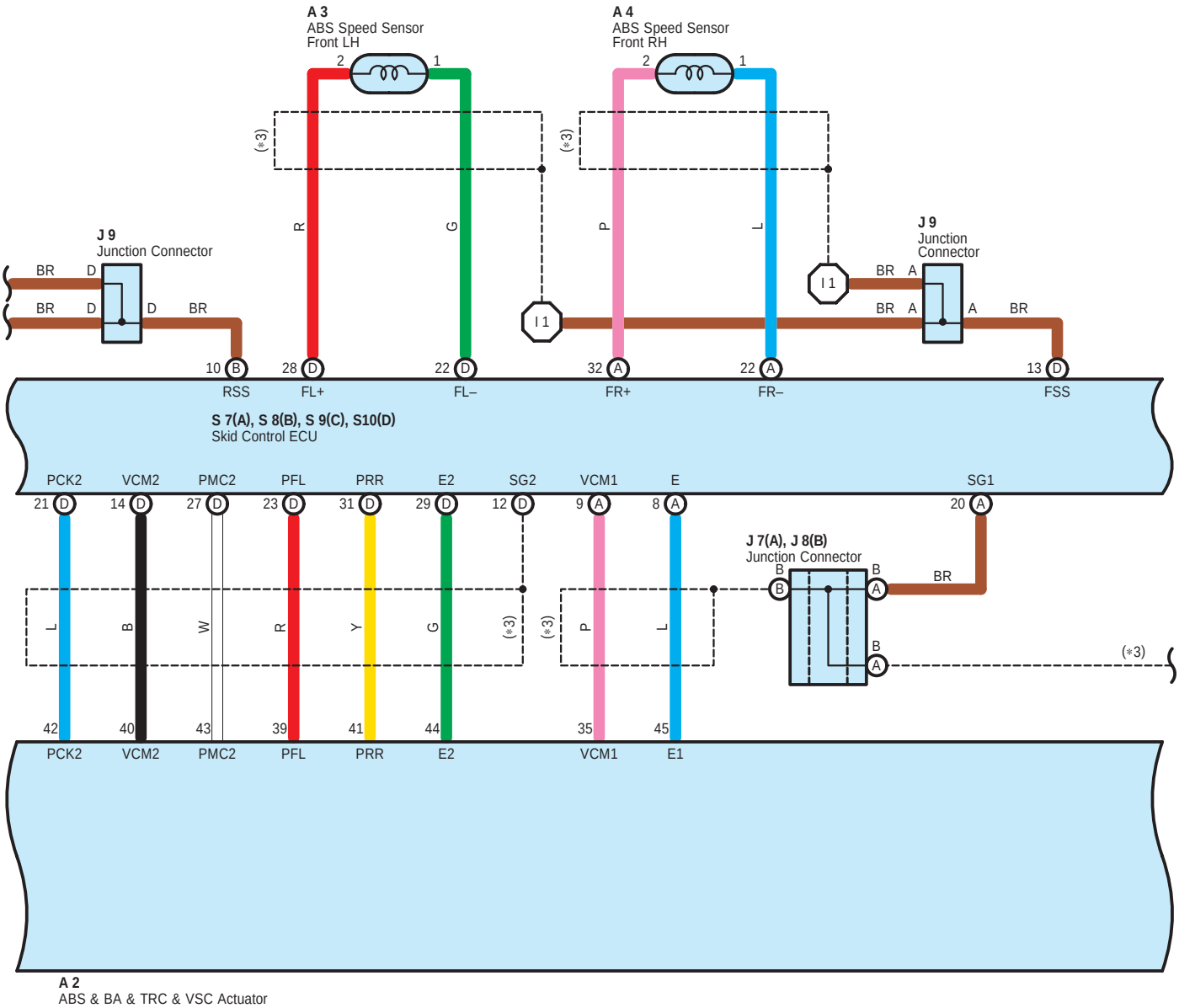



From Power Source System (See Page 96)
* 3 : Shielded
7. 5A
IGN
10A
ABS
MAIN1
10A
ABS
MAIN2
B 8
Brake Pedal Stroke Sensor
VCSK
SKG
SKS2
SKS1
(*3)
SR2
SR1
+BO1
+BO2
IG2
+B11
+B12
VCSK
SKG
SKS1
SKS2
SSK
S 7(A), S 8(B), S 9(C), S10(D)
Skid Control ECU
R2+
BS2
R1+
BS1
SCSS
MTT
SLAFR+
SLAFR–
SLRFR+
F17
Fuse Holder
30A ABS
IP1
IP1
A 2
ABS & BA & TRC & VSC Actuator
MTT
FR+
FR–
FR+
BM2
BM1
BS2
BS1

[Details of Skid Control ECU Section]



∗ 3 : Shielded


A 3
ABS Speed Sensor
Front LH
A 4
ABS Speed Sensor
Front RH
J 9
Junction Connector
J 9
Junction
Connector
I 1
I 1
BR
D
R
G
P
L
BR
A
10 B RSS
28 D FL+
22 D FL–
32 A FR+
22 A FR–
13 D FSS
S 7(A), S 8(B), S 9(C), S10(D)
Skid Control ECU
PCK2
VCM2
PMC2
PFL
PRR
E2
SG2
VCM1
E
SG1
21 D
14 D
27 D
23 D
31 D
29 D
12 D
9 A
8 A
20 A
L
B
W
R
Y
G
P
L
(∗3)
J 7(A), J 8(B)
Junction Connector
42 PCK2
40 VCM2
43 PMC2
39 PFL
41 PRR
44 E2
35 VCM1
45 E1
A 2
ABS & BA & TRC & VSC Actuator

[Details of Skid Control ECU Section]

From Power Source System (See Page 96)

∗ 3 : Shielded

