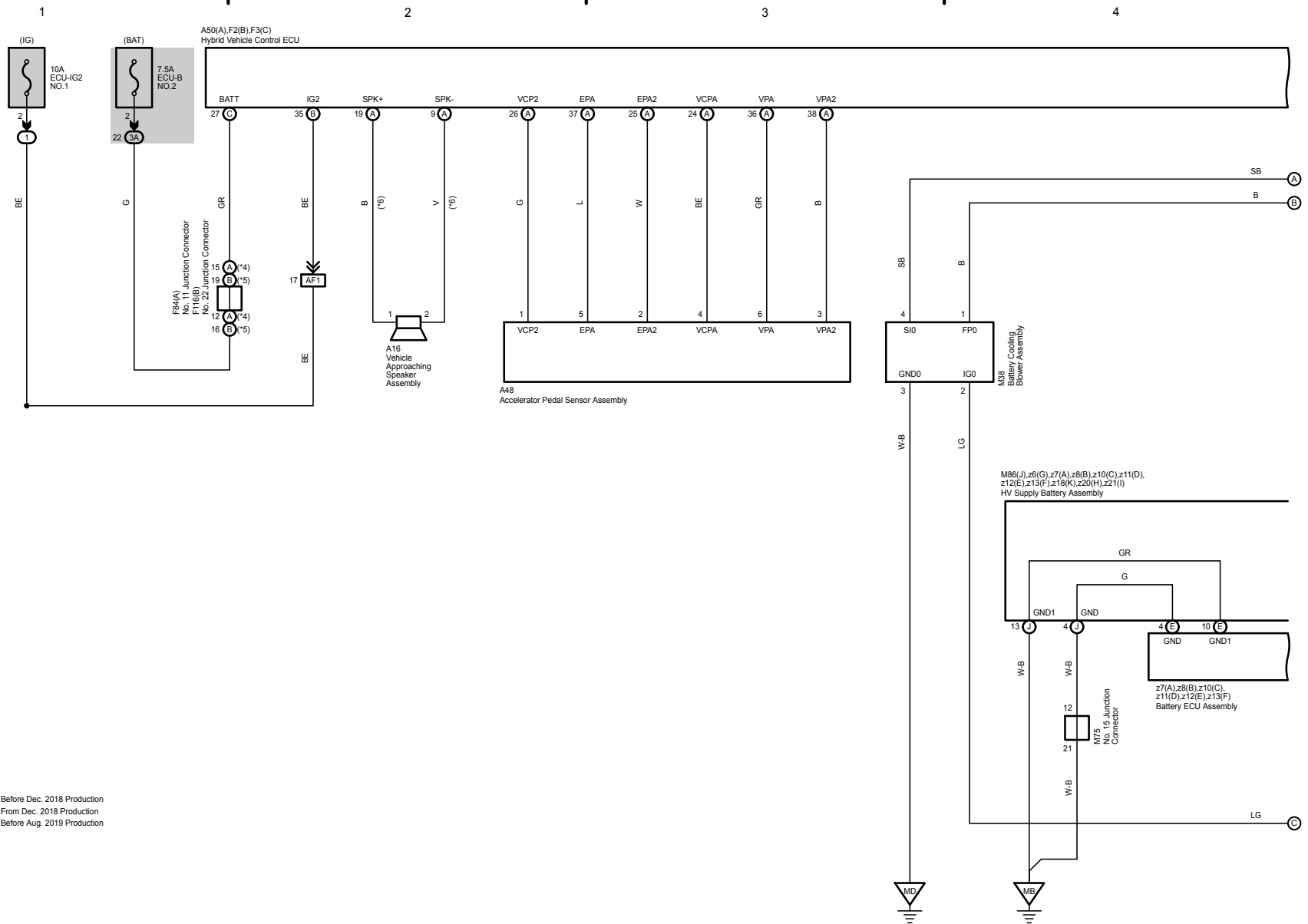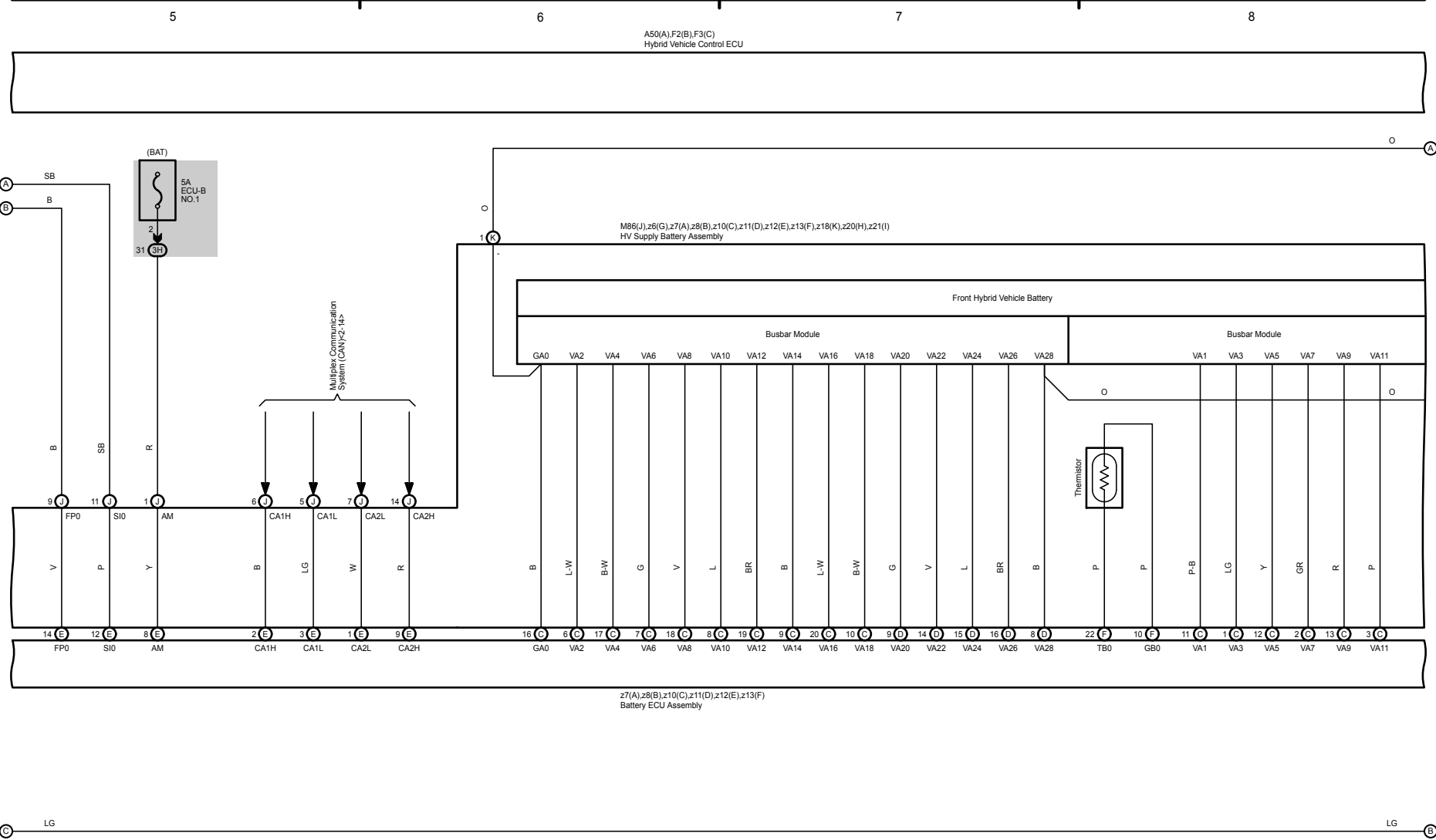Hybrid System (Lithium-Ion Battery), Shift Control System (Lithium-Ion Battery),
Vehicle Proximity Notification System (Before Aug. 2019 Production) (Lithium-Ion Battery)

1   2   3   4

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

(IG)   (BAT)

10A   7.5A
ECU-IG2   ECU-B
NO.1   NO.2

2   2
                     22 3A

BATT   IG2   SPK+   SPK-   VCP2   EPA   EPA2   VCPA   VPA   VPA2

27 C   35 B 19 A   9 A 26 A 37 A 25 A 24 A 36 A 38 A

BE   G   GR   BE   B   V   G   L   W   BE   GR   B
                             (*6)   (*6)

SB A
B B

F84(A)
No. 11 Junction Connector
F116(B)
No. 22 Junction Connector

15 A *4
19 B *5   17 AF1

12 A *4
16 B *5

BE

                                    1   2

                                    A16
                                    Vehicle
                                    Approaching
                                    Speaker
                                    Assembly

SB   B

1   5   2   4   6   3
VCP2   EPA   EPA2   VCPA   VPA   VPA2

A48
Accelerator Pedal Sensor Assembly

4   1
SI0   FP0   M38
                Battery Cooling
                Blower Assembly
GND0   IG0
3   2

W-B   LG

M86(J),z6(G),z7(A),z8(B),z10(C),z11(D),
z12(E),z13(F),z18(K),z20(H),z21(I)
HV Supply Battery Assembly

GR

G

GND1   GND   4   10 E
13 J 4 J   GND   GND1

W-B   W-B

z7(A),z8(B),z10(C),
z11(D),z12(E),z13(F)
Battery ECU Assembly

12
       M75
       No. 15 Junction
       Connector
21

W-B

LG C

* 4 :Before Dec. 2018 Production
* 5 :From Dec. 2018 Production
* 6 :Before Aug. 2019 Production
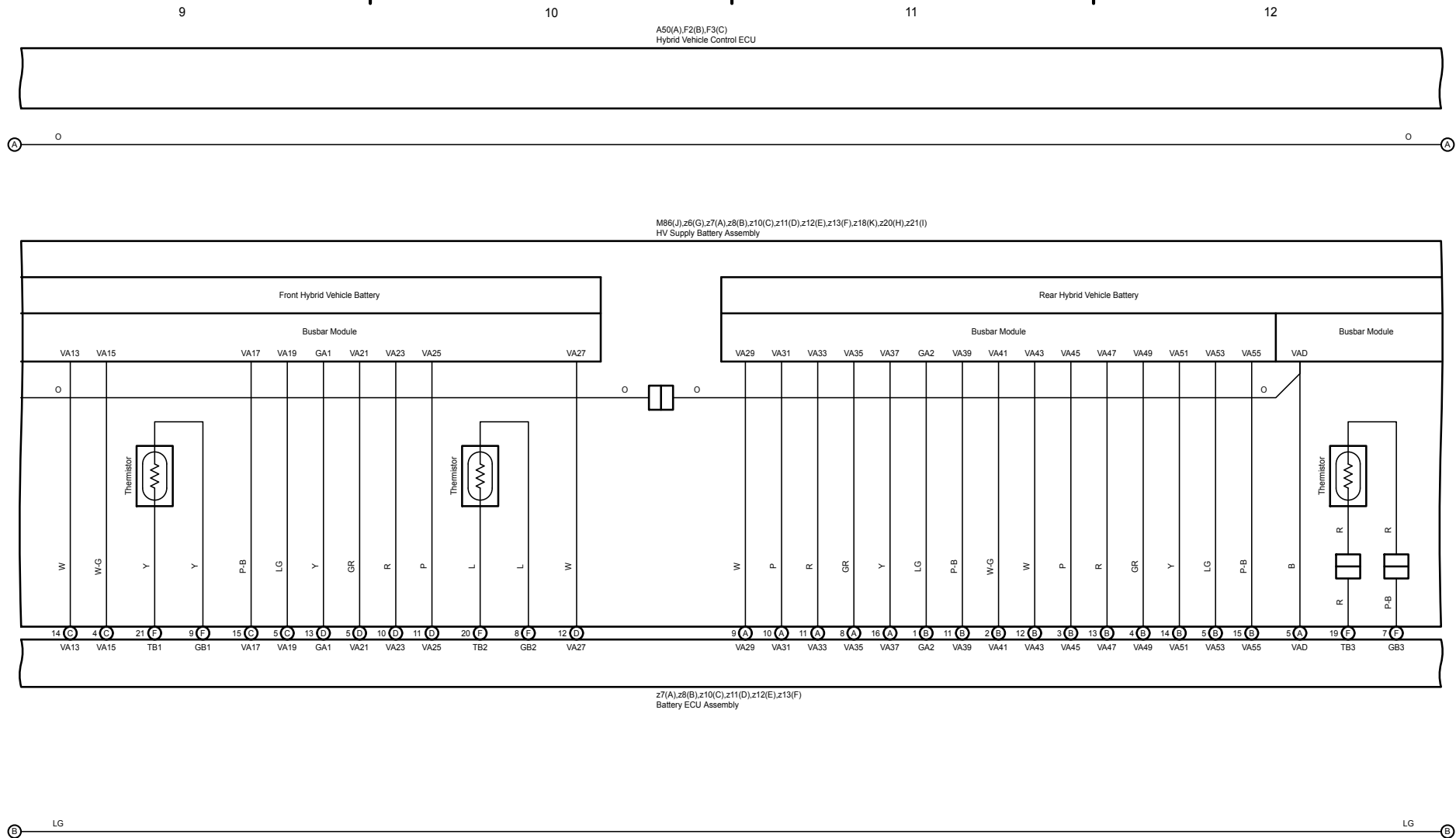
MD   MB

Hybrid System (Lithium-Ion Battery), Shift Control System (Lithium-Ion Battery),
Vehicle Proximity Notification System (Before Aug. 2019 Production) (Lithium-Ion Battery)

5   6   7   8

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

O   (A)

(BAT)

5A
ECU-B
NO.1

2

31 (3H)

O

1 (K)

M86(J),z6(G),z7(A),z8(B),z10(C),z11(D),z12(E),z13(F),z18(K),z20(H),z21(I)
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   VA1 VA3 VA5 VA7 VA9 VA11

O

O   O

Thermistor

A   SB

B   B

Multiplex Communication
System (CAN)<2-14>

B   SB   R

9 (J) 11 (J) 1 (J)   6 (J) 5 (J) 7 (J) 14 (J)

FP0   SI0   AM   CA1H CA1L CA2L CA2H

V   P   Y   B   LG   W   R   B   L-W B-W G   V   L   BR   B   L-W B-W G   V   L   BR   B   P   P   P-B LG   Y   GR   R   P

14 (E) 12 (E) 8 (E) 2 (E) 3 (E) 1 (E) 9 (E) 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) 22 (F) 10 (F) 11 (C) 1 (C) 12 (C) 2 (C) 13 (C) 3 (C)

FP0 SI0 AM CA1H CA1L CA2L CA2H GA0 VA2 VA4 VA6 VA8 VA10 VA12 VA14 VA16 VA18 VA20 VA22 VA24 VA26 VA28 TB0 GB0 VA1 VA3 VA5 VA7 VA9 VA11

z7(A),z8(B),z10(C),z11(D),z12(E),z13(F)
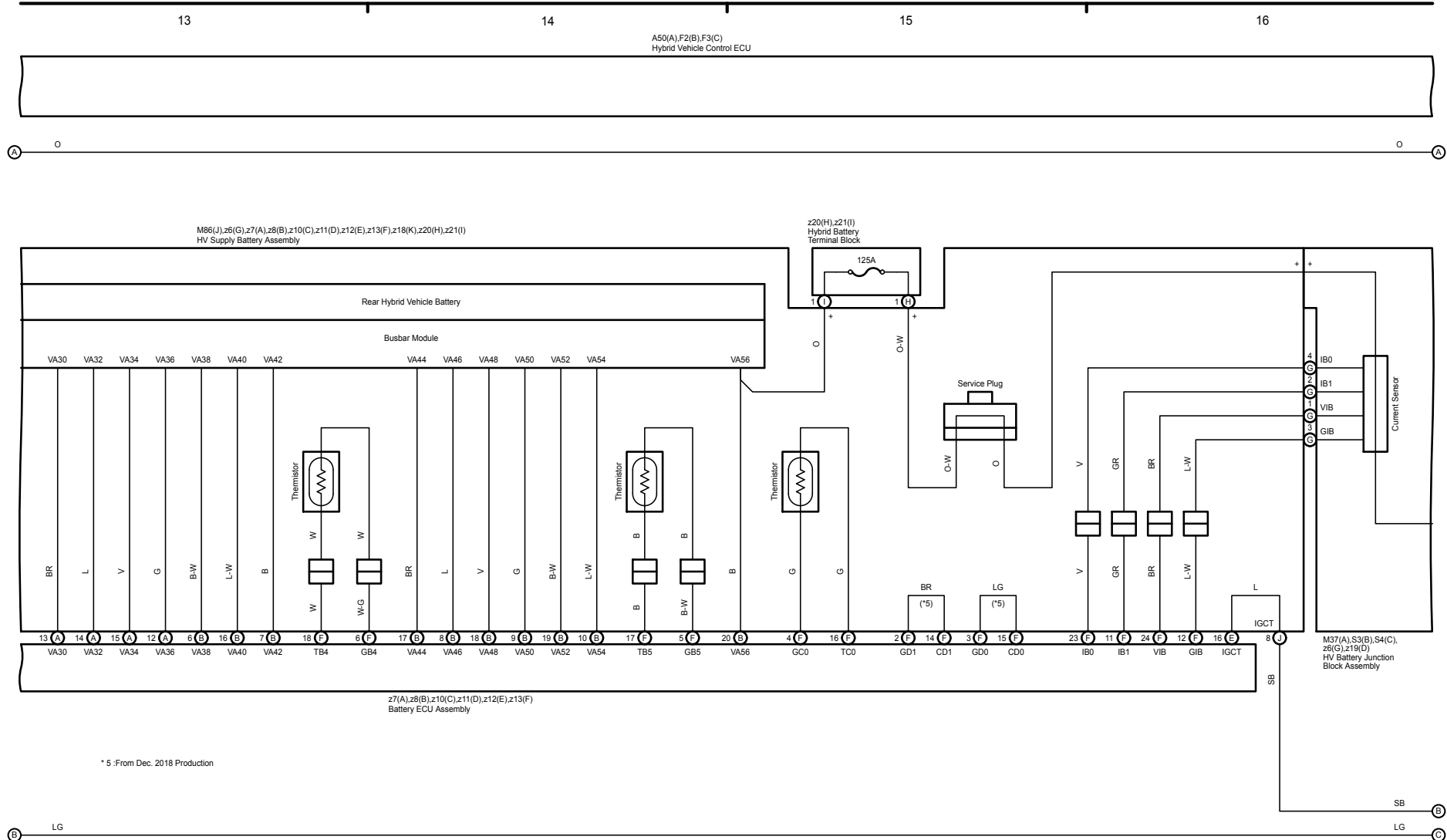Battery ECU Assembly

C   LG   LG   B

Hybrid System (Lithium-Ion Battery), Shift Control System (Lithium-Ion Battery),
Vehicle Proximity Notification System (Before Aug. 2019 Production) (Lithium-Ion Battery)

9   10   11   12

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

A — O   O — A

M86(J),z6(G),z7(A),z8(B),z10(C),z11(D),z12(E),z13(F),z18(K),z20(H),z21(I)
HV Supply Battery Assembly

Front Hybrid Vehicle Battery	Rear Hybrid Vehicle Battery	
Busbar Module	Busbar Module	Busbar Module

VA13 VA15   VA17 VA19 GA1 VA21 VA23 VA25   VA27

VA29 VA31 VA33 VA35 VA37 GA2 VA39 VA41 VA43 VA45 VA47 VA49 VA51 VA53 VA55   VAD

O

Thermistor   Thermistor   Thermistor

O   O   O

W W-G Y Y P-B LG Y GR R P L L W

W P R GR Y LG P-B W-G W P R GR Y LG P-B B

R   R

R   P-B

14(C) 4(C) 21(F) 9(F) 15(C) 5(C) 13(D) 5(D) 10(D) 11(D) 20(F) 8(F) 12(D)

9(A) 10(A) 11(A) 8(A) 16(A) 1(B) 11(B) 2(B) 12(B) 3(B) 13(B) 4(B) 14(B) 5(B) 15(B) 5(A) 19(F) 7(F)

VA13 VA15 TB1 GB1 VA17 VA19 GA1 VA21 VA23 VA25 TB2 GB2 VA27

VA29 VA31 VA33 VA35 VA37 GA2 VA39 VA41 VA43 VA45 VA47 VA49 VA51 VA53 VA55 VAD TB3 GB3

z7(A),z8(B),z10(C),z11(D),z12(E),z13(F)
Battery ECU Assembly

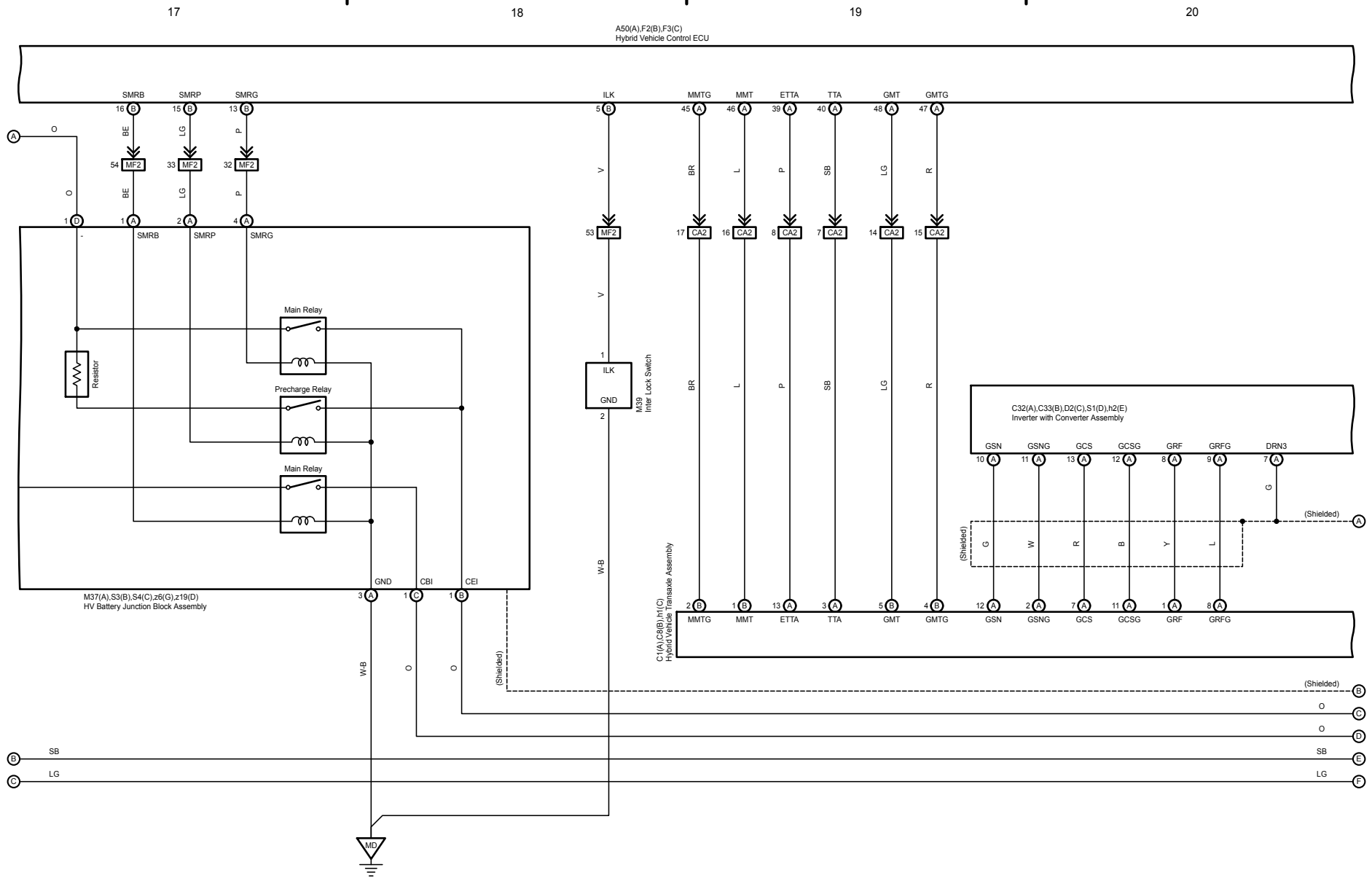B — LG   LG — B

Hybrid System (Lithium-Ion Battery), Shift Control System (Lithium-Ion Battery),
Vehicle Proximity Notification System (Before Aug. 2019 Production) (Lithium-Ion Battery)

13 14 15 16

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

A O O A

M86(J),z6(G),z7(A),z8(B),z10(C),z11(D),z12(E),z13(F),z18(K),z20(H),z21(I)
HV Supply Battery Assembly

z20(H),z21(I)
Hybrid Battery
Terminal Block

Rear Hybrid Vehicle Battery

Busbar Module

125A

Service Plug

Current Sensor

VA30 VA32 VA34 VA36 VA38 VA40 VA42 VA44 VA46 VA48 VA50 VA52 VA54 VA56

Thermistor Thermistor Thermistor

IB0
IB1
VIB
GIB

BR L V G B-W L-W B W W-G BR L V G B-W L-W B B B-W B G G BR LG V GR BR L-W L

W W B B O O-W O O-W (*5) (*5) V GR BR L-W

13(A) 14(A) 15(A) 12(A) 6(B) 16(B) 7(B) 18(F) 6(F) 17(B) 8(B) 18(B) 9(B) 19(B) 10(B) 17(F) 5(F) 20(B) 4(F) 16(F) 2(F) 14(F) 3(F) 15(F) 23(F) 11(F) 24(F) 12(F) 16(E) 8(J)

VA30 VA32 VA34 VA36 VA38 VA40 VA42 TB4 GB4 VA44 VA46 VA48 VA50 VA52 VA54 TB5 GB5 VA56 GC0 TC0 GD1 CD1 GD0 CD0 IB0 IB1 VIB GIB IGCT

SB

M37(A),S3(B),S4(C),
z6(G),z19(D)
HV Battery Junction
Block Assembly

z7(A),z8(B),z10(C),z11(D),z12(E),z13(F)
Battery ECU Assembly

* 5 :From Dec. 2018 Production
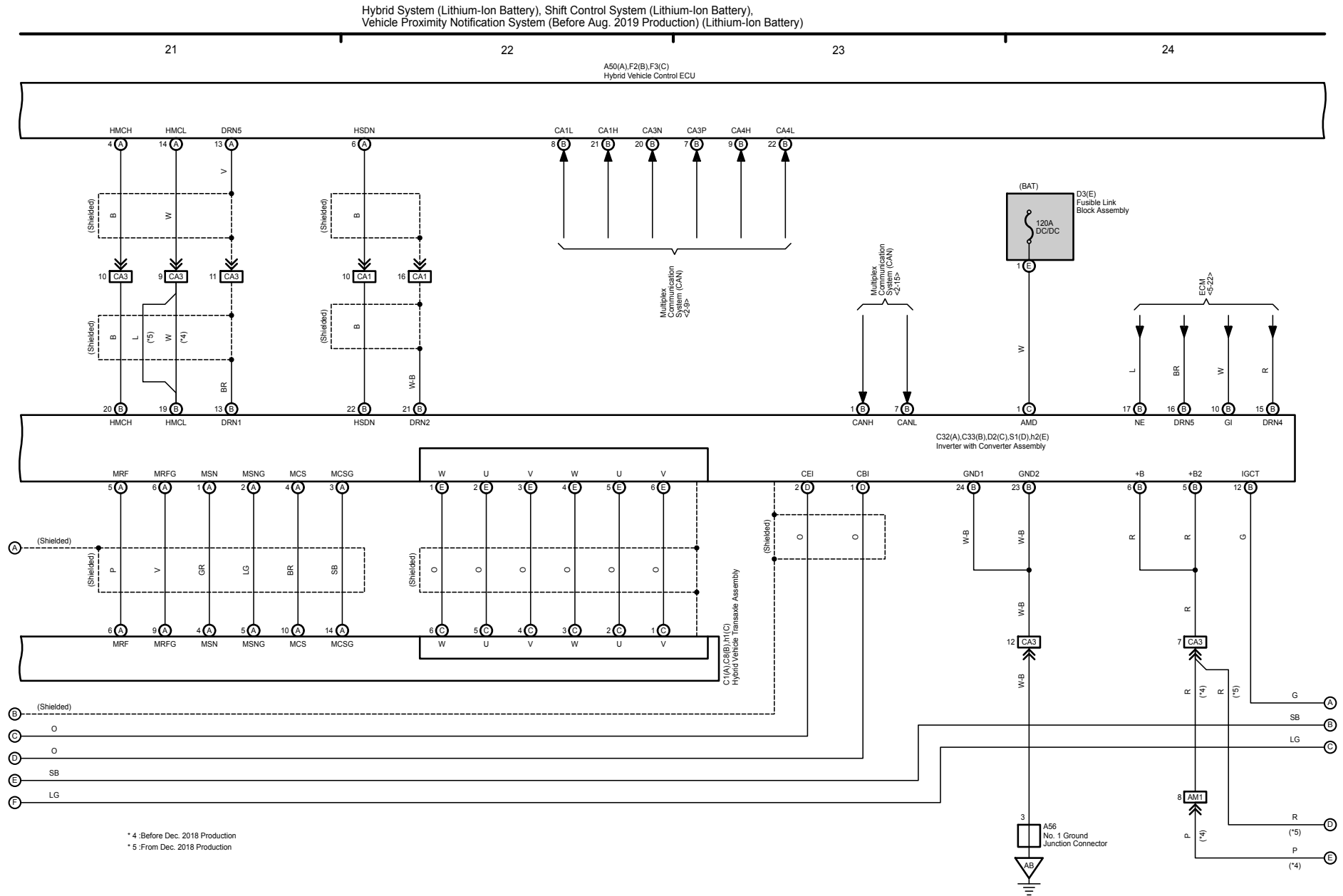
SB B

B LG LG C

Hybrid System (Lithium-Ion Battery), Shift Control System (Lithium-Ion Battery),
Vehicle Proximity Notification System (Before Aug. 2019 Production) (Lithium-Ion Battery)

17   18   19   20

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

SMRB   SMRP   SMRG   ILK   MMTG   MMT   ETTA   TTA   GMT   GMTG
16 (B)   15 (B)   13 (B)   5 (B)   45 (A)   46 (A)   39 (A)   40 (A)   48 (A)   47 (A)

A — O

BE   LG   P   V   BR   L   P   SB   LG   R

54 MF2   33 MF2   32 MF2

BE   LG   P   V   BR   L   P   SB   LG   R

O

1 (D)   1 (A)   2 (A)   4 (A)   53 MF2   17 CA2   16 CA2   8 CA2   7 CA2   14 CA2   15 CA2

-    SMRB   SMRP   SMRG   V

Main Relay

Resistor

Precharge Relay

Main Relay

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) — A

(Shielded)   G   W   R   B   Y   L

M37(A),S3(B),S4(C),z6(G),z19(D)
HV Battery Junction Block Assembly

GND   CBI   CEI
3 (A)   1 (C)   1 (B)

M39 Inter Lock Switch
1 ILK
GND
2

C1(A),C8(B),h1(C)
Hybrid Vehicle Transaxle Assembly

2 (B)   1 (B)   13 (A)   3 (A)   5 (B)   4 (B)   12 (A)   2 (A)   7 (A)   11 (A)   1 (A)   8 (A)
MMTG   MMT   ETTA   TTA   GMT   GMTG   GSN   GSNG   GCS   GCSG   GRF   GRFG

BR   L   P   SB   LG   R

W-B   O   O   (Shielded)   W-B

(Shielded) — B
O — C
O — D
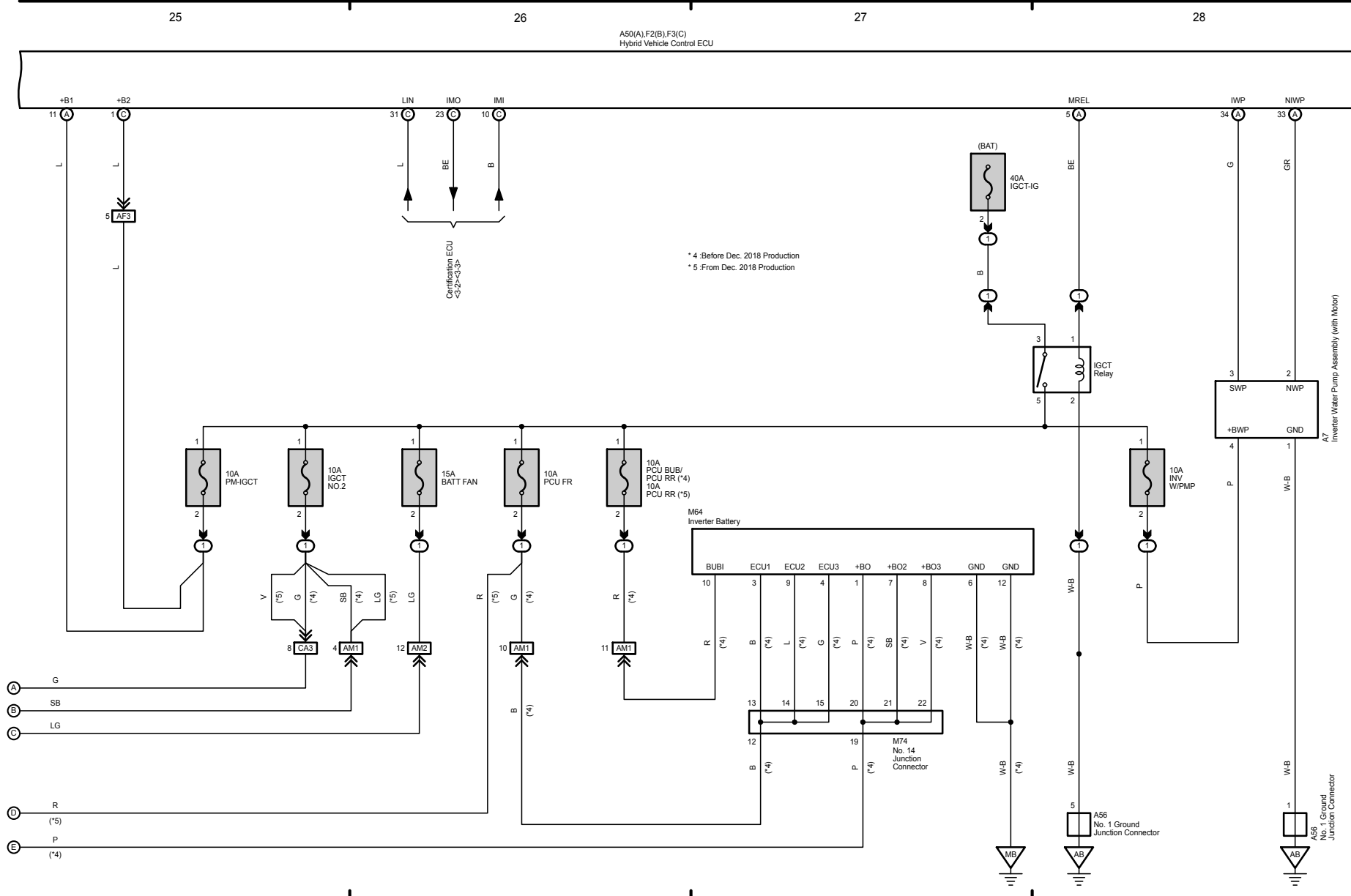
B — SB   SB — E
C — LG   LG — F

MD

Hybrid System (Lithium-Ion Battery), Shift Control System (Lithium-Ion Battery),
Vehicle Proximity Notification System (Before Aug. 2019 Production) (Lithium-Ion Battery)

| 21 | 22 | 23 | 24 |

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

(BAT)

D3(E)
Fusible Link
Block Assembly

120A
DC/DC

C32(A),C33(B),D2(C),S1(D),h2(E)
Inverter with Converter Assembly

C1(A),C8(B),h1(C)
Hybrid Vehicle Transaxle Assembly

A56
No. 1 Ground
Junction Connector

* 4 :Before Dec. 2018 Production
* 5 :From Dec. 2018 Production

Hybrid System (Lithium-Ion Battery), Shift Control System (Lithium-Ion Battery),
Vehicle Proximity Notification System (Before Aug. 2019 Production) (Lithium-Ion Battery)

25   26   27   28

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

+B1 +B2   LIN IMO IMI   MREL   IWP NIWP
11 (A) 1 (C)   31 (C) 23 (C) 10 (C)   5 (A)   34 (A) 33 (A)

L   L   L   BE   B   BE   G   GR

5 AF3

(BAT)
40A
IGCT-IG

2
1

B
1   1
1

Certification ECU
<3-2><3-3>

* 4 :Before Dec. 2018 Production
* 5 :From Dec. 2018 Production

3   1
IGCT
Relay
5   2

1   1   1   1   1   1

10A   10A   15A   10A   10A
PM-IGCT   IGCT   BATT FAN   PCU FR   PCU BUB/
           NO.2   PCU RR (*4)
                                            10A
                                            PCU RR (*5)
2   2   2   2   2

M64
Inverter Battery

10A
INV
W/PMP
2

BUBI ECU1 ECU2 ECU3 +BO +BO2 +BO3 GND GND

10   3   9   4   1   7   8   6   12

8 CA3 4 AM1 12 AM2 10 AM1 11 AM1

V G SB LG LG R R
(*5)(*4) (*4)(*5)   (*5)(*4)   (*4)

R   B   L   G   P   SB   V
(*4) (*4)(*4)(*4)(*4)(*4) (*4)

A G

B SB

C LG

B   13 14 15 20 21 22   W-B W-B
(*4)   (*4) (*4)

12   19
            M74
            No. 14
            Junction
            Connector

B   P
(*4)   (*4)

D R

(*5)

E P   W-B
                        (*4)

(*4)

SWP NWP
3   2

+BWP GND
4   1

A7
Inverter Water Pump Assembly (with Motor)

W-B   P

W-B

5 A56
   No. 1 Ground
   Junction Connector

1 A56
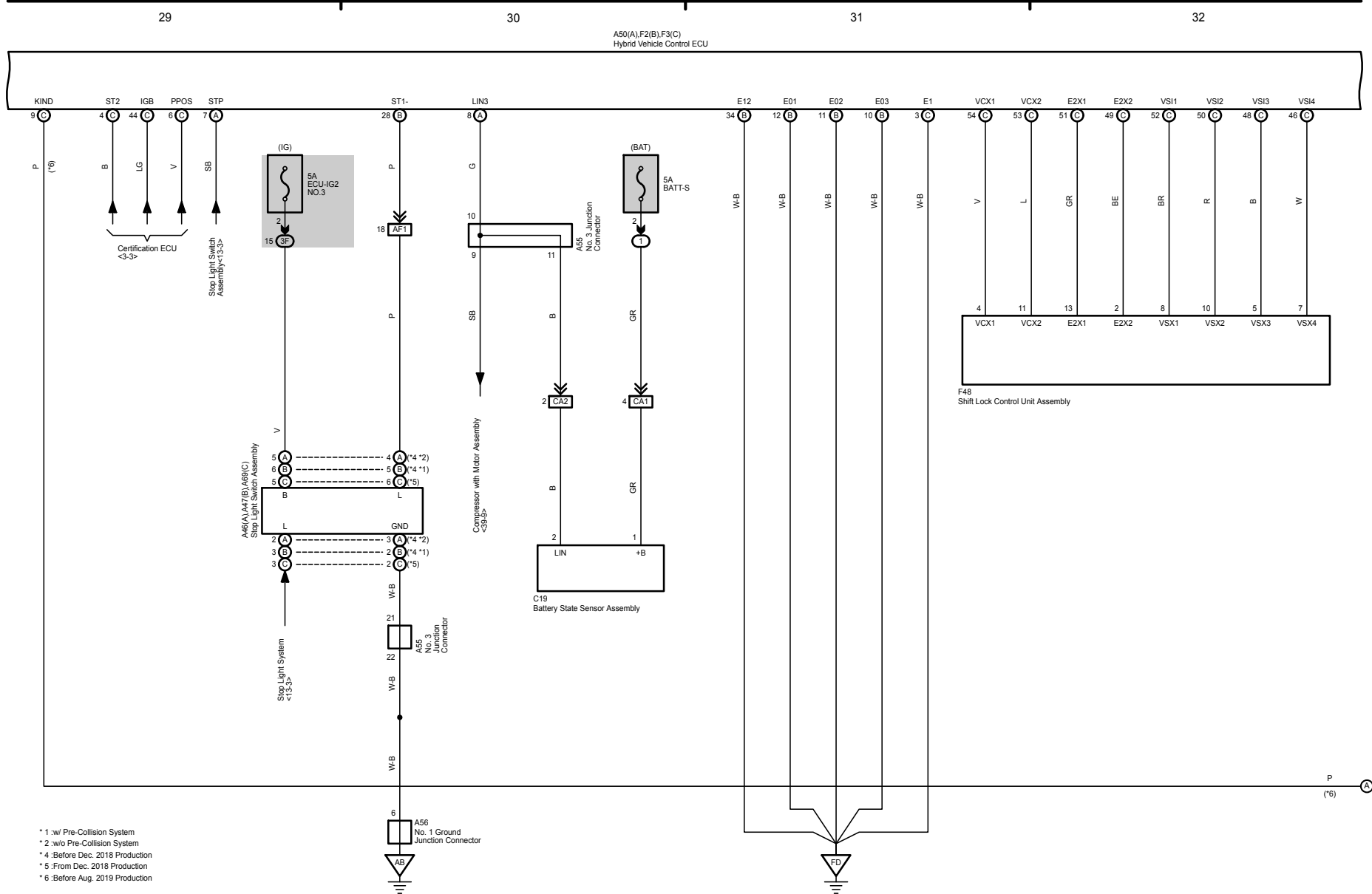   No. 1 Ground
   Junction Connector

MB   AB   AB

Hybrid System (Lithium-Ion Battery), Shift Control System (Lithium-Ion Battery),
Vehicle Proximity Notification System (Before Aug. 2019 Production) (Lithium-Ion Battery)

29   30   31   32

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

KIND	ST2	IGB	PPOS	STP	ST1-	LIN3		E12	E01	E02	E03	E1	VCX1	VCX2	E2X1	E2X2	VSI1	VSI2	VSI3	VSI4
9 C	4 C	44 C	6 C	7 A	28 B	8 A		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

P (*6)   B   LG   V   SB   P   G   (BAT)   W-B   W-B   W-B   W-B   W-B   V   L   GR   BE   BR   R   B   W

(IG)
5A
ECU-IG2
NO.3

2
15 3F

5A
BATT-S

2
1

18 AF1

10
A55
No. 3 Junction
Connector
9   11

P

2 CA2   4 CA1

Certification ECU
<3-3>

Stop Light Switch
Assembly<13-3>

Compressor with Motor Assembly
<39-9>

4   11   13   2   8   10   5   7
VCX1   VCX2   E2X1   E2X2   VSX1   VSX2   VSX3   VSX4

F48
Shift Lock Control Unit Assembly

SB   B   GR

B   GR

V

5 A (*4 *2)   4 A (*4 *2)
6 B (*4 *1)   5 B (*4 *1)
5 C (*5)   6 C (*5)

B   L

A46(A),A47(B),A69(C)
Stop Light Switch Assembly

L   GND

2 A (*4 *2)   3 A (*4 *2)
3 B (*4 *1)   2 B (*4 *1)
3 C (*5)   2 C (*5)

2   1
LIN   +B

C19
Battery State Sensor Assembly

Stop Light System
<13-3>

W-B

21
A55
No. 3
Junction
Connector
22

W-B

W-B

P (*6)   A

6
A56
No. 1 Ground
Junction Connector

AB   FD

* 1 :w/ Pre-Collision System
* 2 :w/o Pre-Collision System
* 4 :Before Dec. 2018 Production
* 5 :From Dec. 2018 Production
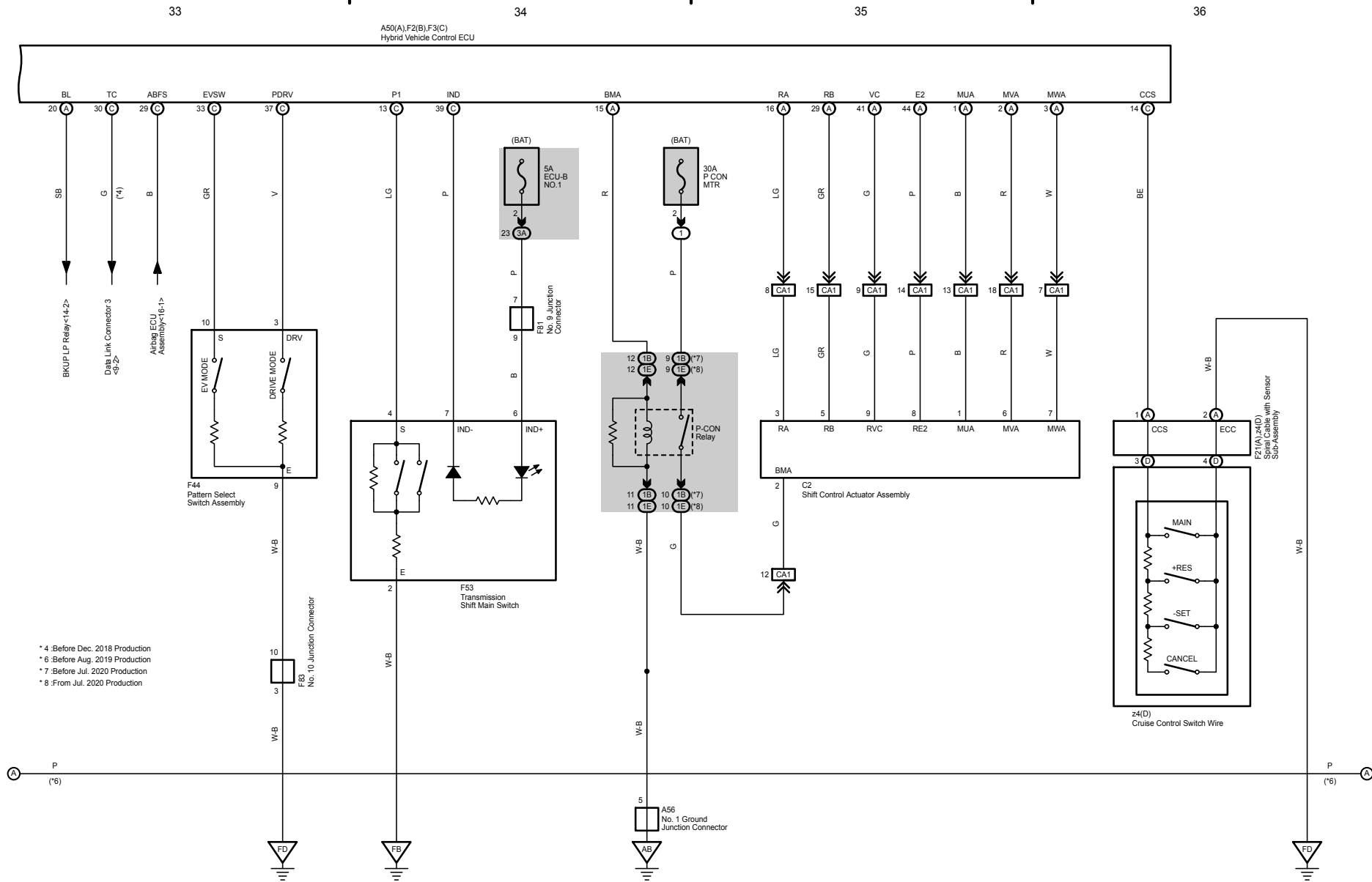* 6 :Before Aug. 2019 Production

Hybrid System (Lithium-Ion Battery), Shift Control System (Lithium-Ion Battery),
Vehicle Proximity Notification System (Before Aug. 2019 Production) (Lithium-Ion Battery)

**Cruise Control
(Lithium-Ion Battery)**

33   34   35   36

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

BL	TC	ABFS	EVSW	PDRV	P1	IND	BMA	RA	RB	VC	E2	MUA	MVA	MWA	CCS
20 (A)	30 (C)	29 (C)	33 (C)	37 (C)	13 (C)	39 (C)	15 (A)	16 (A)	29 (A)	41 (A)	44 (A)	1 (A)	2 (A)	3 (A)	14 (C)

SB   G   B   GR   V   LG   P   R   LG   GR   G   P   B   R   W   BE
(*4)

(BAT)
5A
ECU-B
NO.1

(BAT)
30A
P CON
MTR

2   2
23 (3A)   (1)

P   P

BKUP LP Relay <14-2>

Data Link Connector 3
<9-2>

Airbag ECU
Assembly <16-1>

10   3
S   DRV

7
F81
No. 9 Junction
Connector

8 CA1   15 CA1   9 CA1   14 CA1   13 CA1   18 CA1   7 CA1

9

EV MODE   DRIVE MODE

LG   GR   G   P   B   R   W

12 1B   9 1B (*7)
12 1E   9 1E (*8)

E

F44
Pattern Select
Switch Assembly   9

4   7   6
S   IND-   IND+

P-CON
Relay

3   5   9   8   1   6   7
RA   RB   RVC   RE2   MUA   MVA   MWA

BMA

2
C2
Shift Control Actuator Assembly

W-B

11 1B   10 1B (*7)
11 1E   10 1E (*8)

2
F53
Transmission
Shift Main Switch

W-B   W-B   G

G

12 CA1

CCS   ECC

F21(A),z4(D)
Spiral Cable with Sensor
Sub-Assembly

3 (D)   4 (D)

MAIN

+RES

-SET

CANCEL

z4(D)
Cruise Control Switch Wire

W-B

10
F83
No. 10 Junction Connector   3

* 4 :Before Dec. 2018 Production
* 6 :Before Aug. 2019 Production
* 7 :Before Jul. 2020 Production
* 8 :From Jul. 2020 Production

W-B   W-B

A (*6)   P   P   A (*6)

5
A56
No. 1 Ground
Junction Connector

FD   FB   AB   FD

Cruise Control (Lithium-Ion Battery)

* 4 :Before Dec. 2018 Production
* 5 :From Dec. 2018 Production
* 6 :Before Aug. 2019 Production

37   38   39   40

(IG)
5A
METER-IG2
2
32 (3D)
G

(BAT)
10A
ECU-DCC
NO.2
2
22 (3D)
SB

F79(A)
No. 8 Junction
Connector
F115(B)
No. 21 Junction
Connector

17 (A) (*4)
12 (B) (*5)
18 (A) (*4)
13 (B) (*5)
W

21 (A) 22 (A)
IG+   B

F6(A)
Combination Meter Assembly

5V IC 5V +B

Telltales

Buzzer

I/F

Display Driver Display Driver

LED Driver   CPU

I/F   CAN I/F

IND   ES   CANH CANL
5 (A) 28 (A) 26 (A) 27 (A)
P   W-B
(*6)

1
F83
No. 10 Junction
Connector
3
W-B

Multiplex Communication
System (CAN)<2-15>

(A) P
(*6)

FD