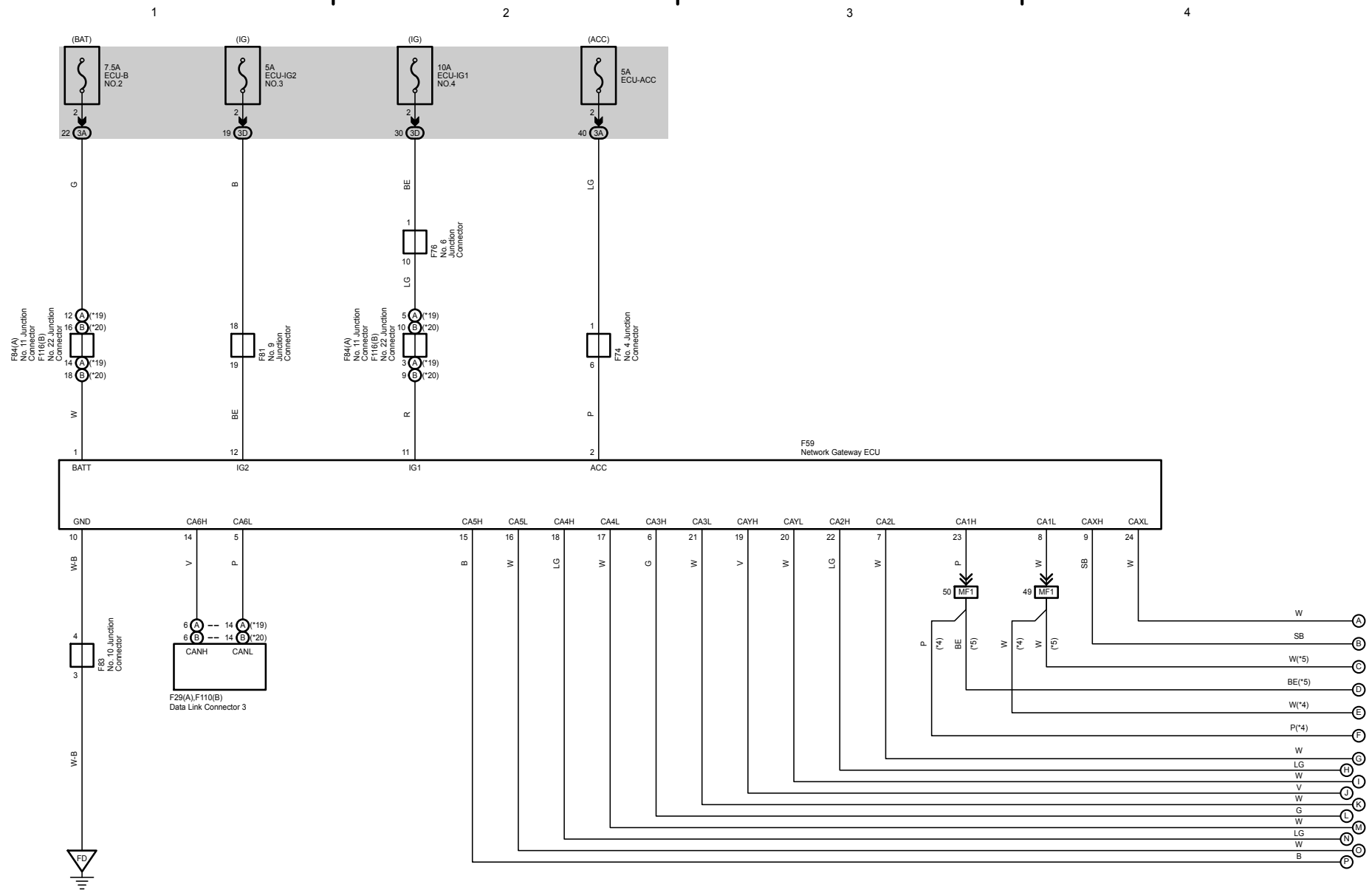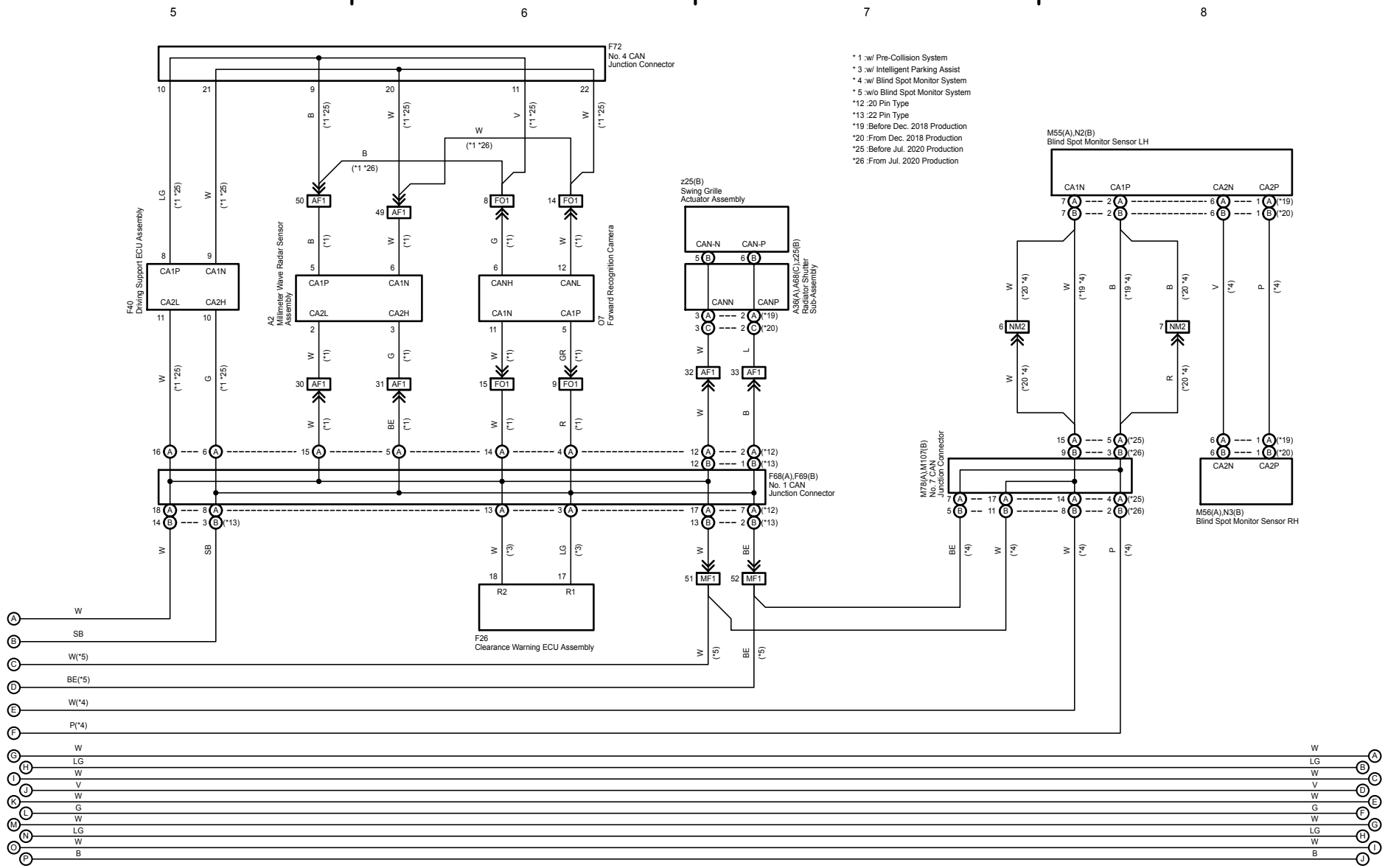Multiplex Communication System (CAN)

* 4 :w/ Blind Spot Monitor System
* 5 :w/o Blind Spot Monitor System
*19 :Before Dec. 2018 Production
*20 :From Dec. 2018 Production

1 2 3 4

(BAT) (IG) (IG) (ACC)

7.5A ECU-B NO.2
5A ECU-IG2 NO.3
10A ECU-IG1 NO.4
5A ECU-ACC

2 2 2 2

22 3A 19 3D 30 3D 40 3A

G B BE LG

F76 No. 6 Junction Connector
1
10
LG

F84(A) No. 11 Junction Connector
F116(B) No. 22 Junction Connector
12 A (*19)
16 B (*20)
14 A (*19)
18 B (*20)

F81 No. 9 Junction Connector
18
19

F84(A) No. 11 Junction Connector
F116(B) No. 22 Junction Connector
5 A (*19)
10 B (*20)
3 A (*19)
9 B (*20)

F74 No. 4 Junction Connector
1
6

W BE R P

1 12 11 2

F59 Network Gateway ECU

BATT IG2 IG1 ACC

GND CA6H CA6L CA5H CA5L CA4H CA4L CA3H CA3L CAYH CAYL CA2H CA2L CA1H CA1L CAXH CAXL
10 14 5 15 16 18 17 6 21 19 20 22 7 23 8 9 24

W-B V P B W LG W G W V W LG W P W SB W

50 MF1 49 MF1

F83 No. 10 Junction Connector
4
3

6 A -- 14 A (*19)
6 B -- 14 B (*20)
CANH CANL

F29(A),F110(B) Data Link Connector 3

P BE W W W
(*4) (*5) (*4) (*5)
P

W-B

FD

W A
SB B
W(*5) C
BE(*5) D
W(*4) E
P(*4) F
W G
LG H
W I
V J
W K
G L
W M
LG N
W O
B P

Multiplex Communication System (CAN)

5   6   7   8

F72
No. 4 CAN
Junction Connector

10 21 9 20 11 22

* 1 :w/ Pre-Collision System
* 3 :w/ Intelligent Parking Assist
* 4 :w/ Blind Spot Monitor System
* 5 :w/o Blind Spot Monitor System
*12 :20 Pin Type
*13 :22 Pin Type
*19 :Before Dec. 2018 Production
*20 :From Dec. 2018 Production
*25 :Before Jul. 2020 Production
*26 :From Jul. 2020 Production

M55(A),N2(B)
Blind Spot Monitor Sensor LH

CA1N CA1P CA2N CA2P
7 (A) 2 (A)   6 (A) 1 (A) (*19)
7 (B) 2 (B)   6 (B) 1 (B) (*20)

B (*1 *25) W (*1 *25) V (*1 *25) W (*1 *25)

W (*1 *26)

B (*1 *26)

LG (*1 *25) W (*1 *25)

50 AF1 49 AF1 8 FO1 14 FO1

z25(B)
Swing Grille
Actuator Assembly

CAN-N CAN-P
5 (B)   6 (B)

A36(A),A68(C),z25(B)
Radiator Shutter
Sub-Assembly

CANN CANP
3 (A) 2 (A) (*19)
3 (C) 2 (C) (*20)

F40
Driving Support ECU Assembly

CA1P CA1N
8   9

CA2L CA2H
11   10

A2
Millimeter Wave Radar Sensor Assembly

CA1P CA1N
5   6

CA2L CA2H
2   3

O7
Forward Recognition Camera

CANH CANL
6   12

CA1N CA1P
11   5

W (*20 *4) W (*19 *4) B (*19 *4) B (*20 *4) V (*4) P (*4)

6 NM2   7 NM2

W (*1) W (*1) G (*1) W (*1)

30 AF1 31 AF1 15 FO1 9 FO1 32 AF1 33 AF1

W (*1) BE (*1) W (*1) R (*1) W B

W (*20 *4) R (*20 *4)

16 (A) 6 (A) 15 (A) 5 (A) 14 (A) 4 (A) 12 (A) 2 (A) (*12)
12 (B) 1 (B) (*13)

15 (A) 5 (B) (*25)
9 (B) 3 (B) (*26)

6 (A) 1 (A) (*19)
6 (B) 1 (B) (*20)

CA2N CA2P

M56(A),N3(B)
Blind Spot Monitor Sensor RH

F68(A),F69(B)
No. 1 CAN
Junction Connector

18 (A) 8 (A) 7 (A) 13 (A) 3 (A) 17 (A) 2 (A) (*12)
14 (B) 3 (B) (*13) 13 (B) 2 (B) (*13)

M78(A),M107(B)
No. 7 CAN
Junction Connector

1 (A) 17 (A) 14 (A) 4 (A) (*25)
5 (B) 11 (B) 8 (B) 2 (B) (*26)

W SB W (*3) LG (*3) W BE

18 17
R2 R1

F26
Clearance Warning ECU Assembly

51 MF1 52 MF1

W (*5) BE (*5)

BE (*4) W (*4) W (*4) P (*4)

(A) W
(B) SB
(C) W(*5)
(D) BE(*5)
(E) W(*4)
(F) P(*4)
(G) W
(H) LG
(I) W
(J) V
(K) W
(L) G
(M) W
(N) LG
(O) W
(P) B

W (A)
LG (B)
W (C)
V (D)
W (E)
G (F)
W (G)
LG (H)
W (I)
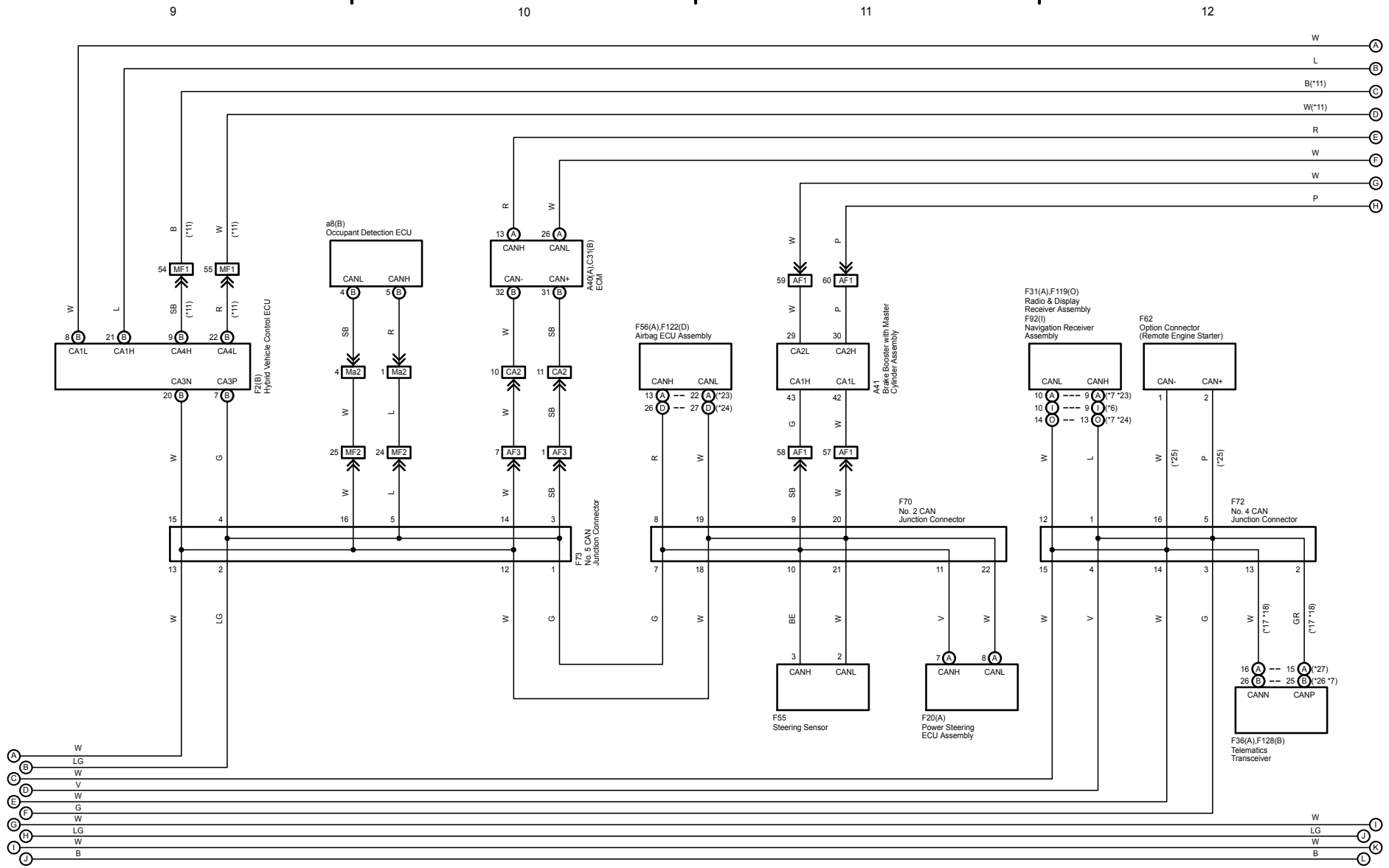B (J)

Multiplex Communication System (CAN)

* 6 :w/ Navigation System
* 7 :w/o Navigation System
*11 :Lithium-Ion Battery
*17 :From Nov. 2017 Production
*18 :w/ Safety Connect

*23 :Before Aug. 2019 Production
*24 :From Aug. 2019 Production
*25 :Before Jul. 2020 Production
*26 :From Jul. 2020 Production
*27 :*25, *26 *6

9   10   11   12

F2(B)
Hybrid Vehicle Control ECU

a8(B)
Occupant Detection ECU

A40(A),C31(B)
ECM

F56(A),F122(D)
Airbag ECU Assembly

A41
Brake Booster with Master
Cylinder Assembly

F31(A),F119(O)
Radio & Display
Receiver Assembly
F92(I)
Navigation Receiver
Assembly

F62
Option Connector
(Remote Engine Starter)

F73
No. 5 CAN
Junction Connector

F70
No. 2 CAN
Junction Connector

F72
No. 4 CAN
Junction Connector

F55
Steering Sensor

F20(A)
Power Steering
ECU Assembly

F36(A),F128(B)
Telematics
Transceiver

Multiplex Communication System (CAN)

13 14 15 16

A W
B L
C B(*11)
D W(*11)
E R
F W
G W
H P

* 9 :Nickel Metal Hydride Battery
*11 :Lithium-Ion Battery
*15 :w/ Headup Display
*19 :Before Dec. 2018 Production
*20 :From Dec. 2018 Production
*21 :4WD
*22 :w/ Headlight Beam Level Control
*23 :Before Aug. 2019 Production
*24 :From Aug. 2019 Production

z12(E)
Battery ECU Assembly

CA1H CA1L CA2L CA2H
2 (E) 3 (E) 1 (E) 9 (E)

M86(J),z12(E)
HV Supply
Battery Assembly

B LG W R

CA1H CA1L CA2L CA2H
6 (J) 5 (J) 7 (J) 14 (J)

B (*11) W (*11) W (*11) GR (*11)

F6(A)
Combination Meter
Assembly

F17(A)
Main Body ECU

F58(B)
A/C Amplifier Assembly

F1(A)
Certification ECU

CANL CANH
27 (A) 26 (A)

CANL CANH
13 (A) 14 (A)

CANL CANH
12 (B) 11 (B)

CANH CANL
1 (A) 2 (A)

W > W SB W BE R W

12 AM1 13 AM1
W R

R
(*11,*21)

W
(*11,*21)

C33(B)
Inverter with Converter
Assembly

CANL CANH
7 (B) 1 (B)

W GR

12 15 14 16

12 (A) 1 (A) --- 14 (A) 3 (A) (*19)
16 (A) 5 (A) --- 19 (A) 8 (A) (*20)

M73(A)
No. 6 CAN
Junction
Connector

17 (A) 6 (A) 15 (A) 4 (A) 18 (A) 7 (A)

22 CA2 21 CA2

F71
No. 3 CAN
Junction Connector

W W W
(*19 *9) (*11,*21) (*21)

B R
(*19 *9) (*11,*21)

W W
(*24) W

G P
(*21) (*24)

W GR

17 6 14 3 18 7

45 MF1 24 MF1
W B

11 10
PCNL PCNH

4 3
CANL CANH

36 AF1 37 AF1

W GR

W
(*22)

L
(*22)

W
(*15)

P
(*15)

P W W B
M53
Rear Hybrid Motor
Control Inverter
Assembly

M102
Vehicle Approaching
Speaker Controller

W GR L W

25 AF1 26 AF1 7 GF2 6 GF2

5 (A) 16 (A) 15 (A) 4 (A) (*23)
5 (B) 11 (B) 10 (B) 4 (B) (*24)

14 (A) 3 (A) 2 (A) 13 (A) (*23)
9 (B) 3 (B) 2 (B) 8 (B) (*24)

W
(*22)

L
(*22)

W
(*15)

P
(*15)

12 (A) --- 1 (A) (*23)
7 (B) --- 1 (B) (*24)

F70(A)
No. 2 CAN Junction Connector
F123(B)
No. 8 CAN Junction Connector

W LG

23 24
CANL CANH

5 4
CANL CANH

A65
No. 1 Headlight ECU
Sub-Assembly LH

G7
Combination Meter Mirror ECU

I W
J LG
K W
L B