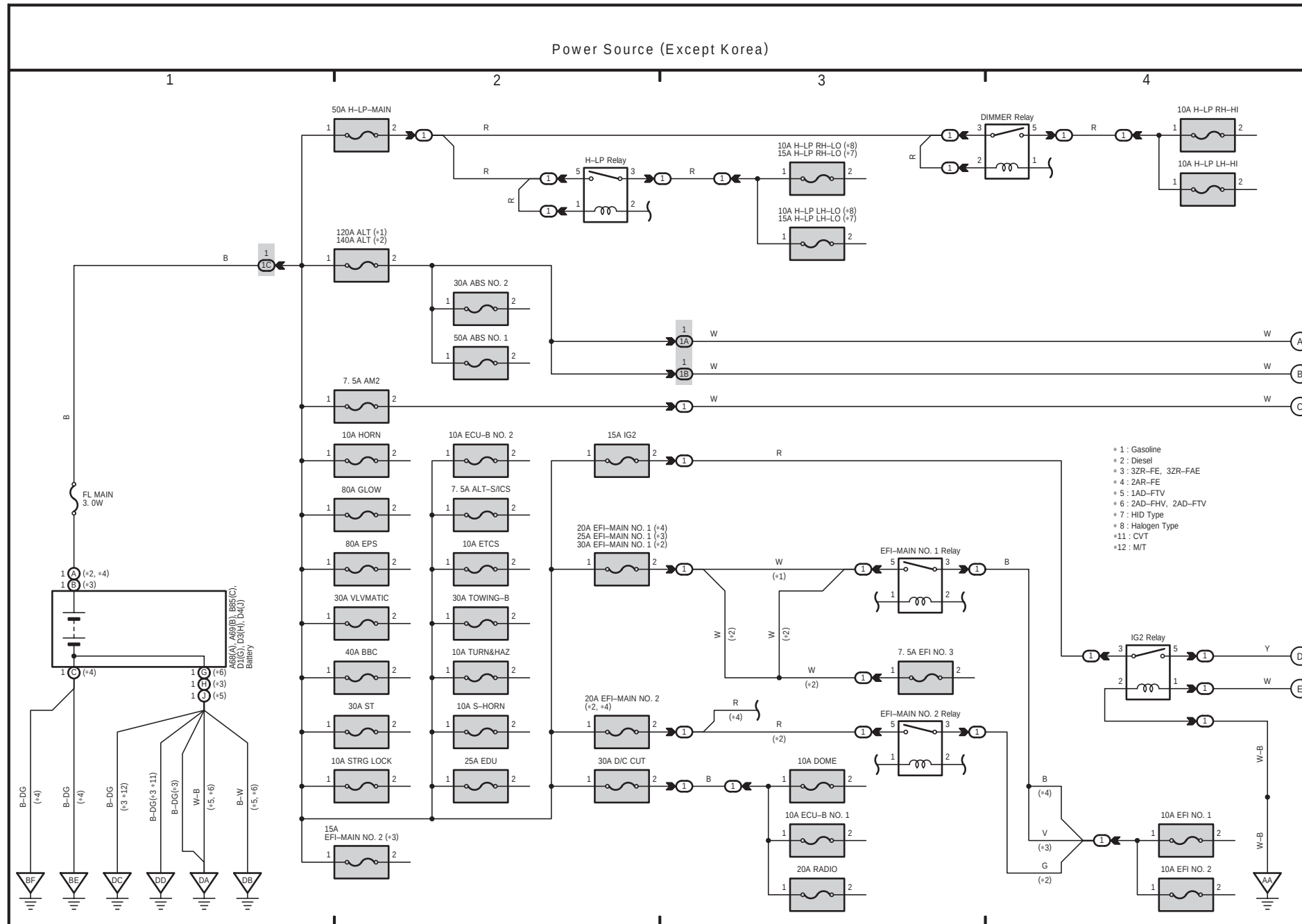
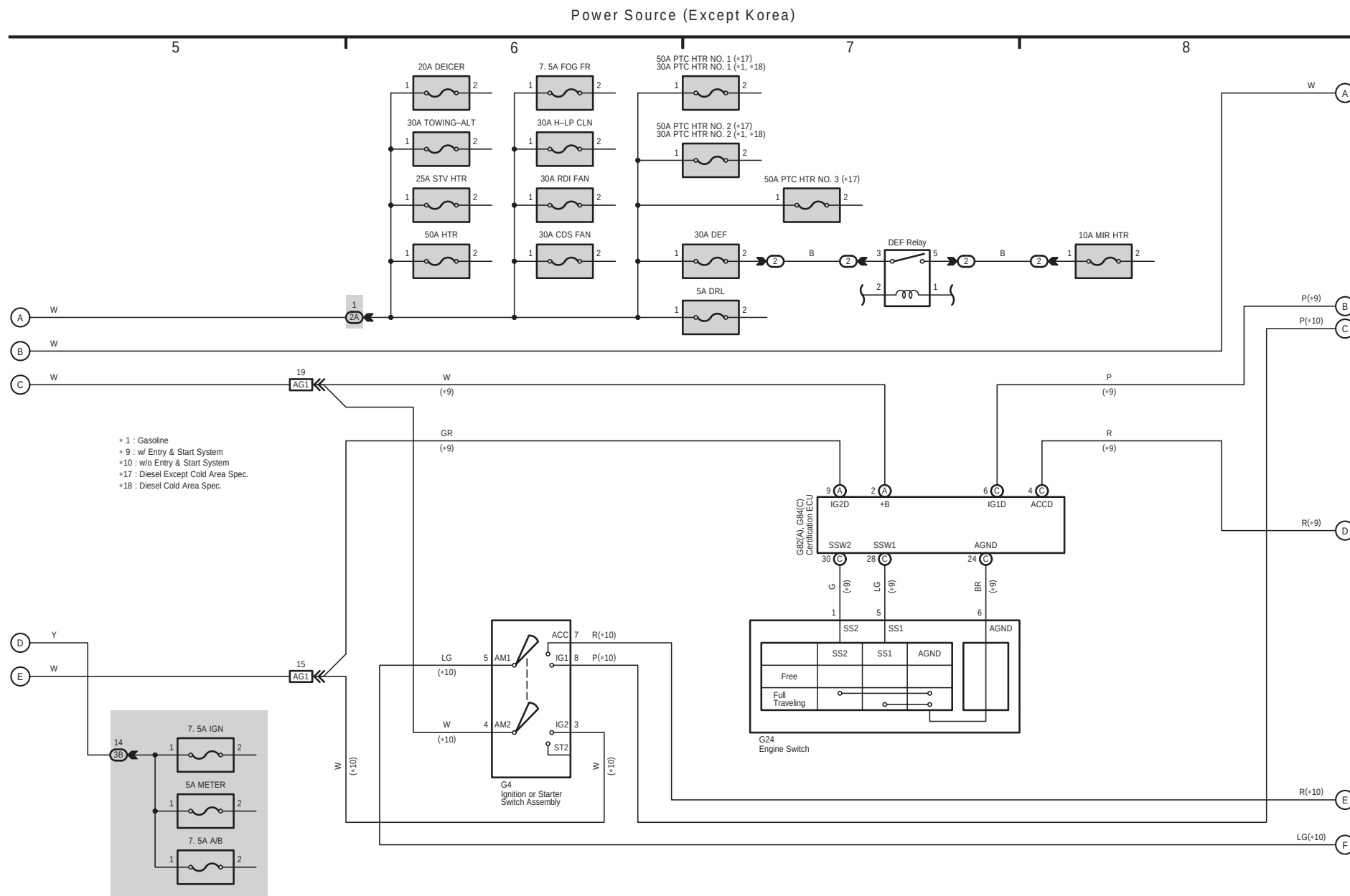


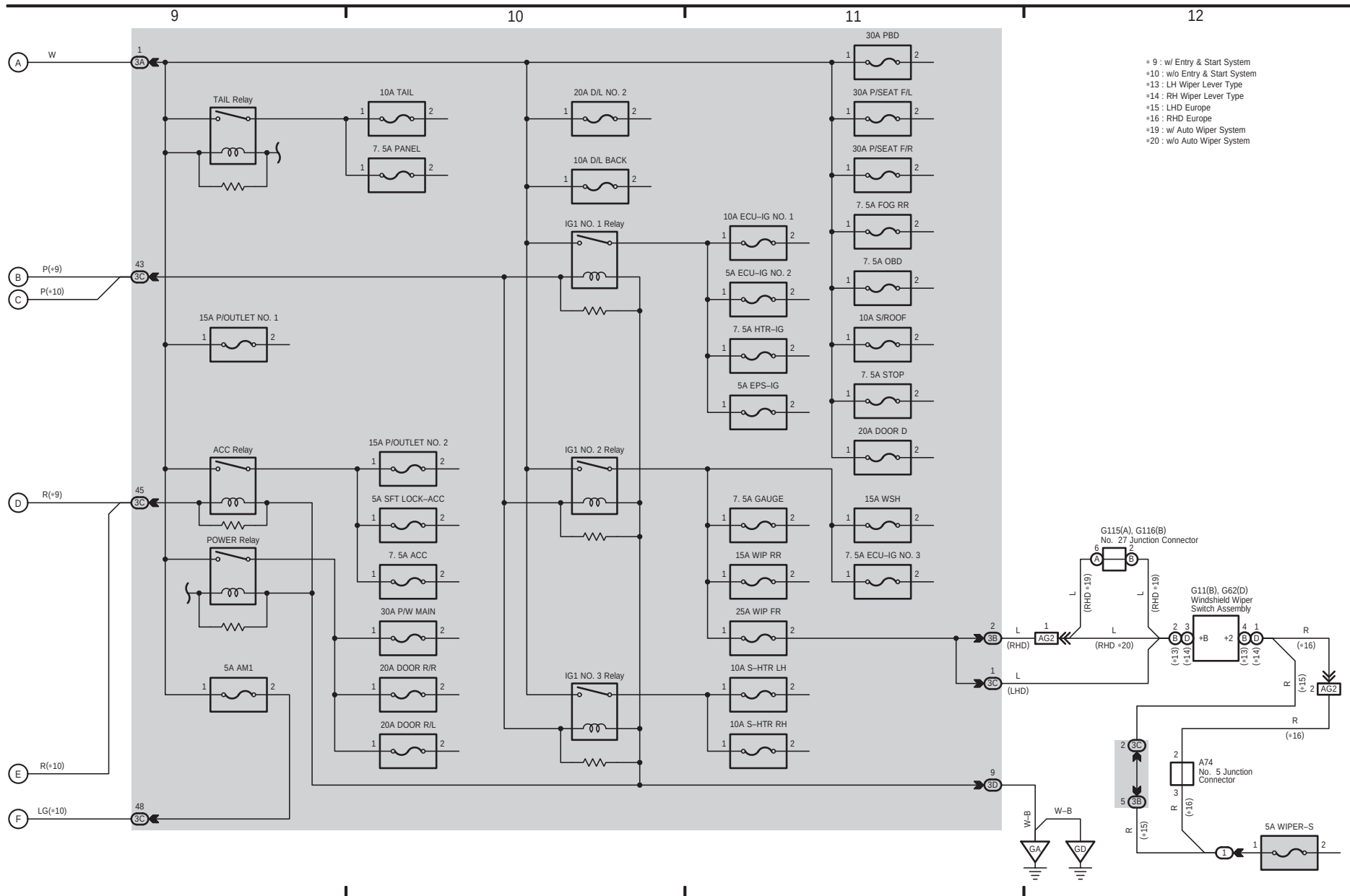
TOYOTA RAV4 (EM3090E)



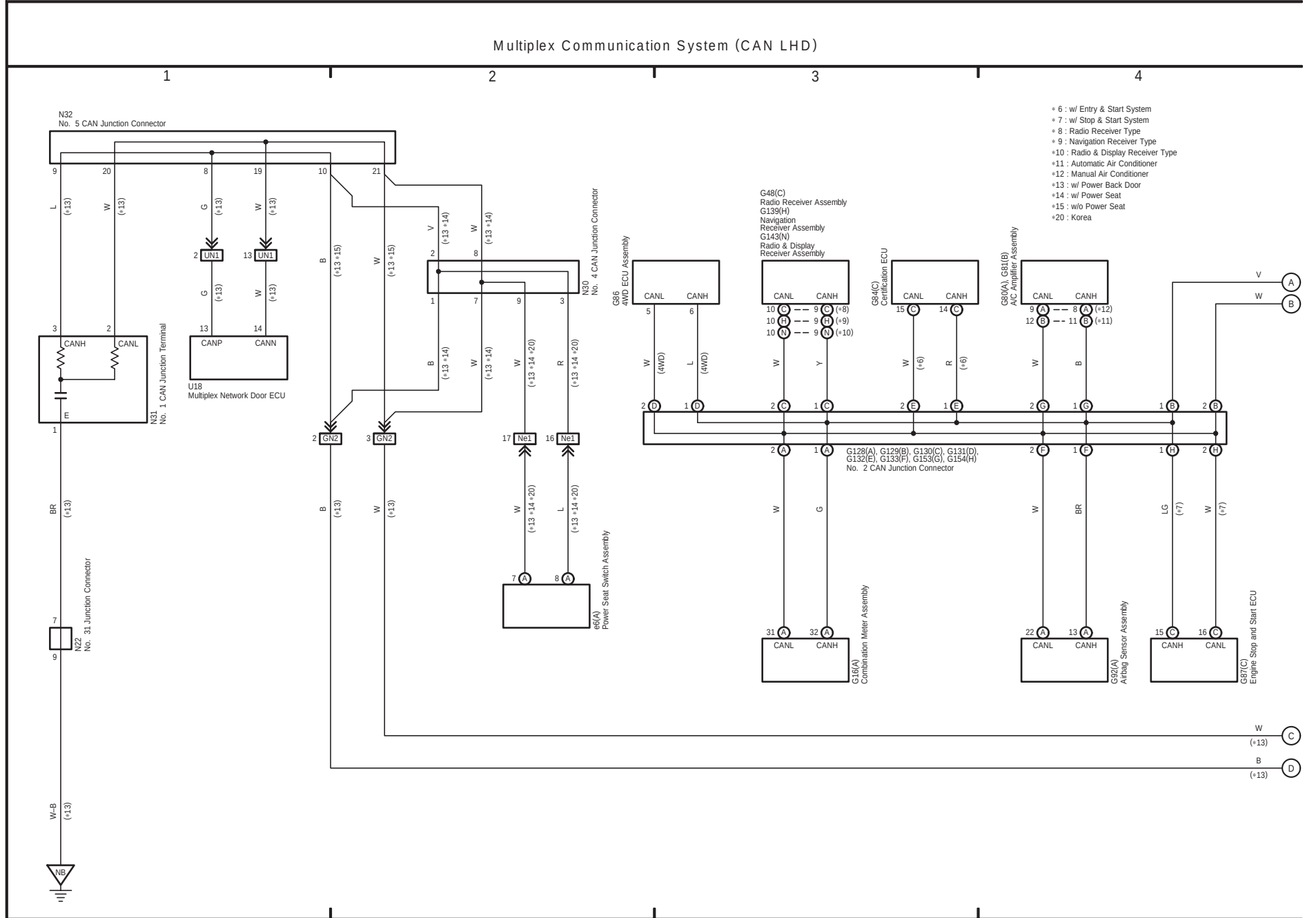


1 TOYOTA RAV4 (Cont' d)

Power Source (Except Korea)

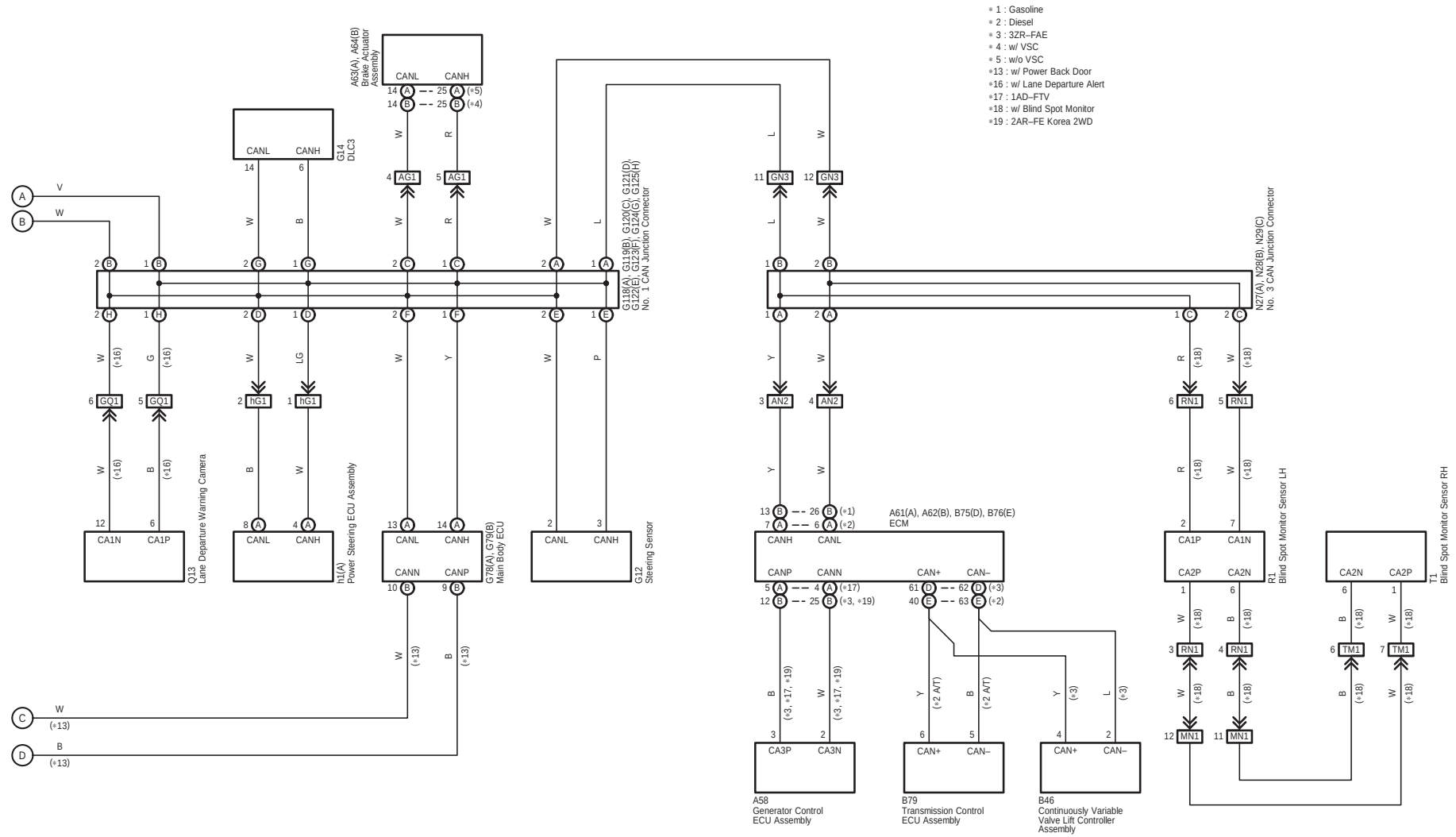


TOYOTA RAV4 (EM3090E)

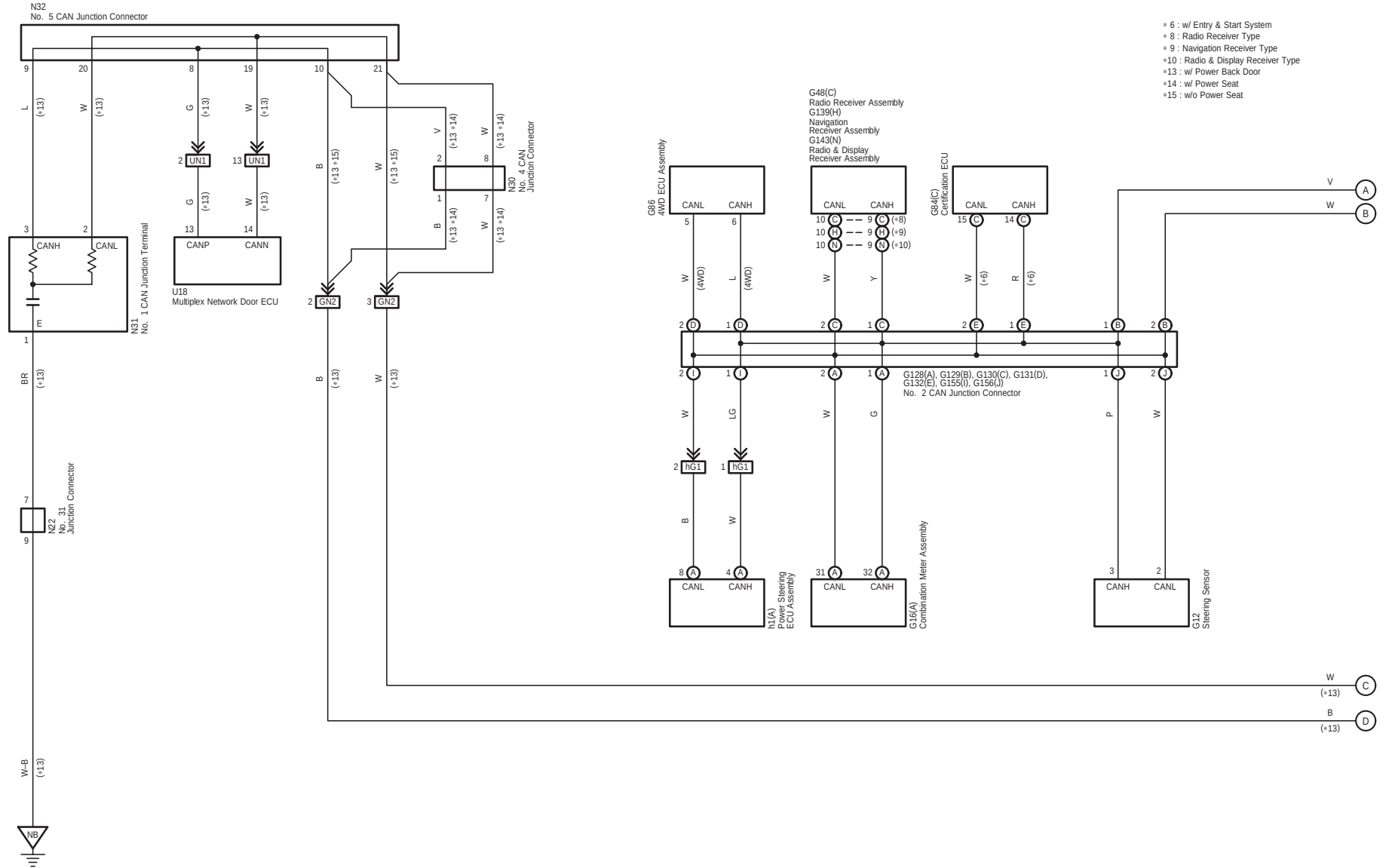


2 TOYOTA RAV4 (Cont' d)

Multiplex Communication System (CAN LHD)



Multiplex Communication System (CAN RHD)



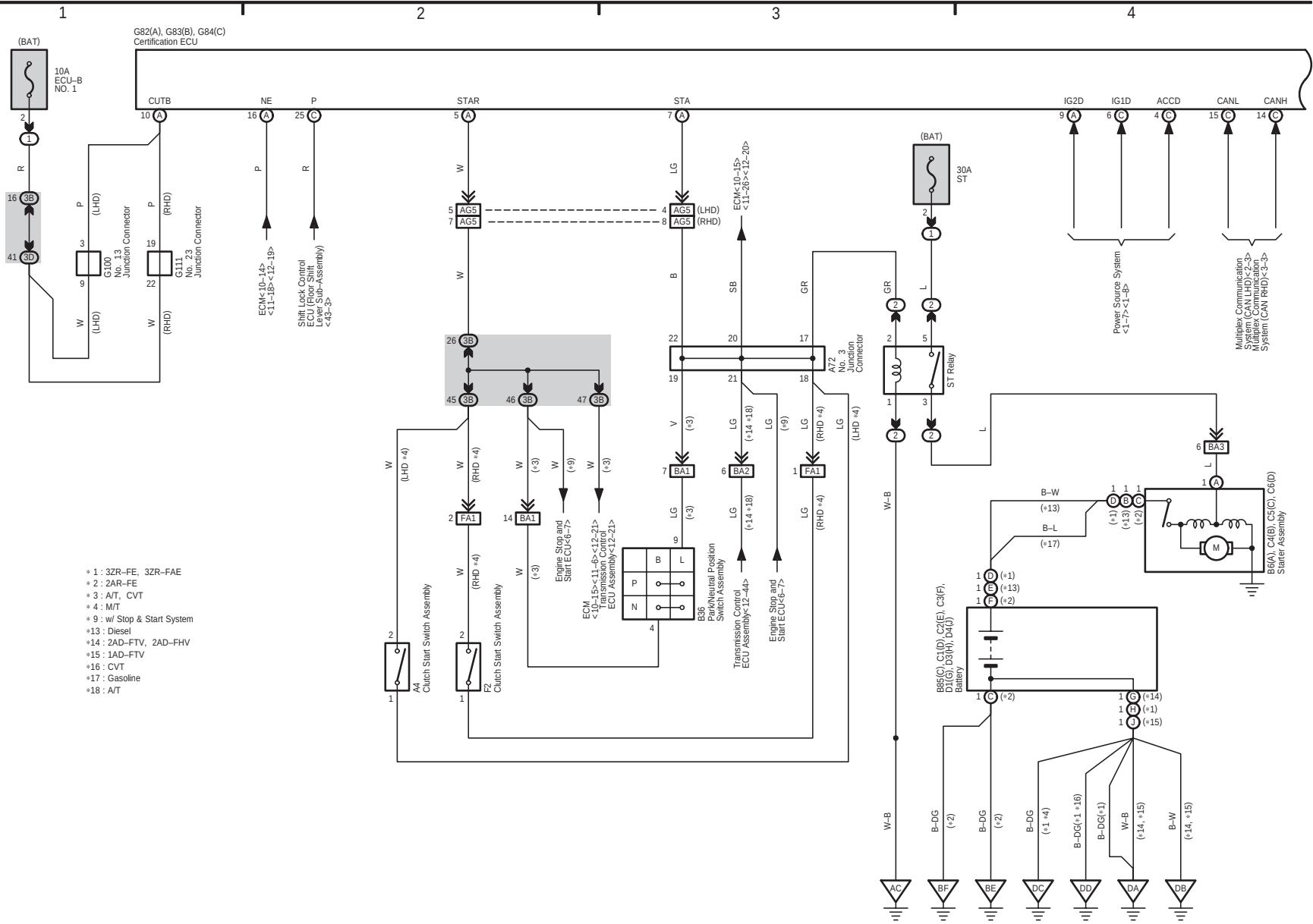
TOYOTA RAV4 (EM3090E)



(Cont. next page)

4 TOYOTA RAV4

Immobiliser System (w/ Entry & Start System) (Except Korea), Entry & Start System (Except Korea), Starting (w/ Entry & Start System) (Except Korea), Steering Lock (w/ Entry & Start System) (Except Korea) and Wireless Door Lock Control (w/ Entry & Start System) (Except Korea)



M



OVERALL ELECTRICAL WIRING DIAGRAM



Immobiliser System (w/ Entry & Start System) (Except Korea), Entry & Start System (Except Korea),
Starting (w/ Entry & Start System) (Except Korea), Steering Lock (w/ Entry & Start System) (Except Korea)
and Wireless Door Lock Control (w/ Entry & Start System) (Except Korea)

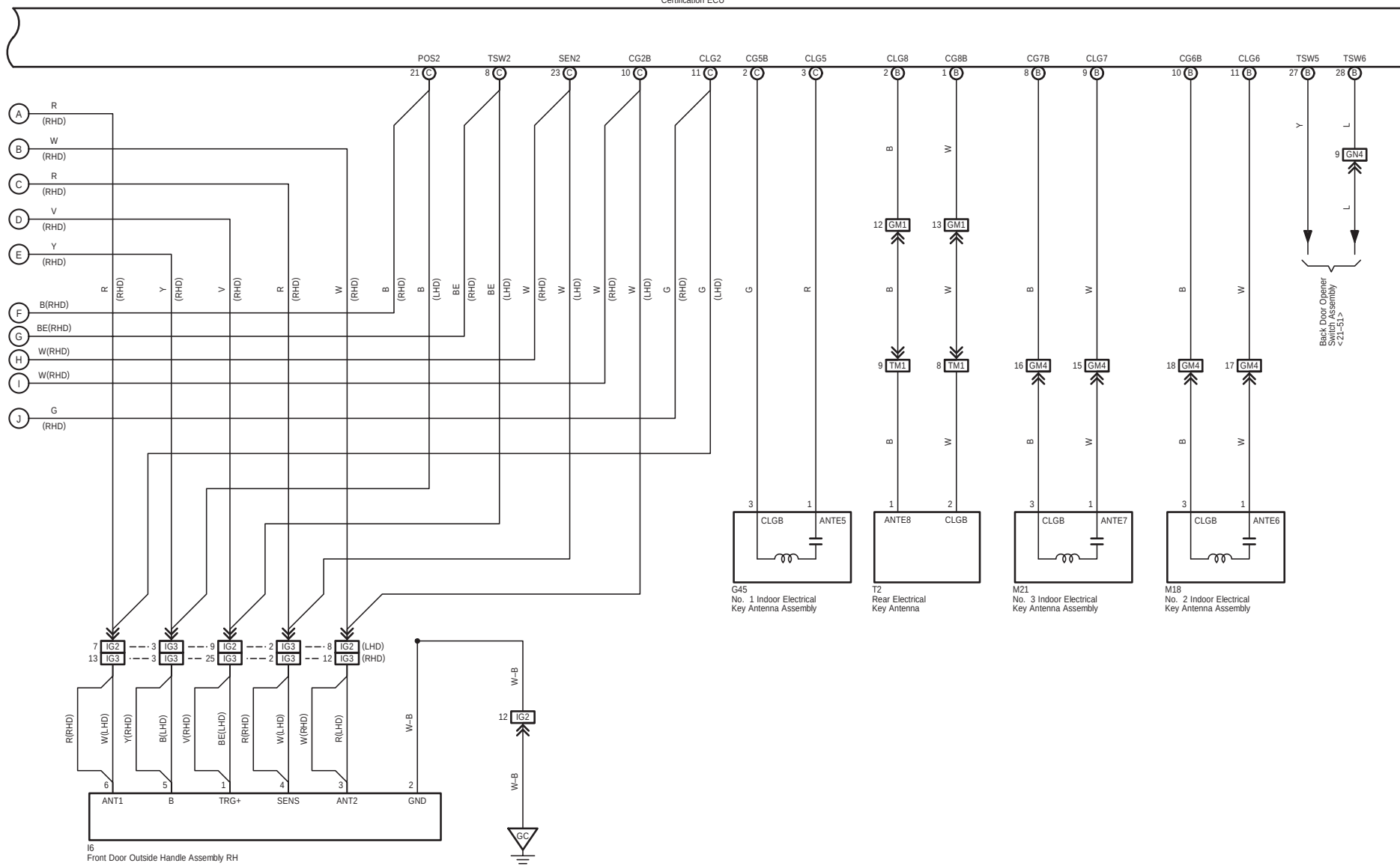
13

14

15

16

G82(A), G83(B), G84(C)
Certification ECU



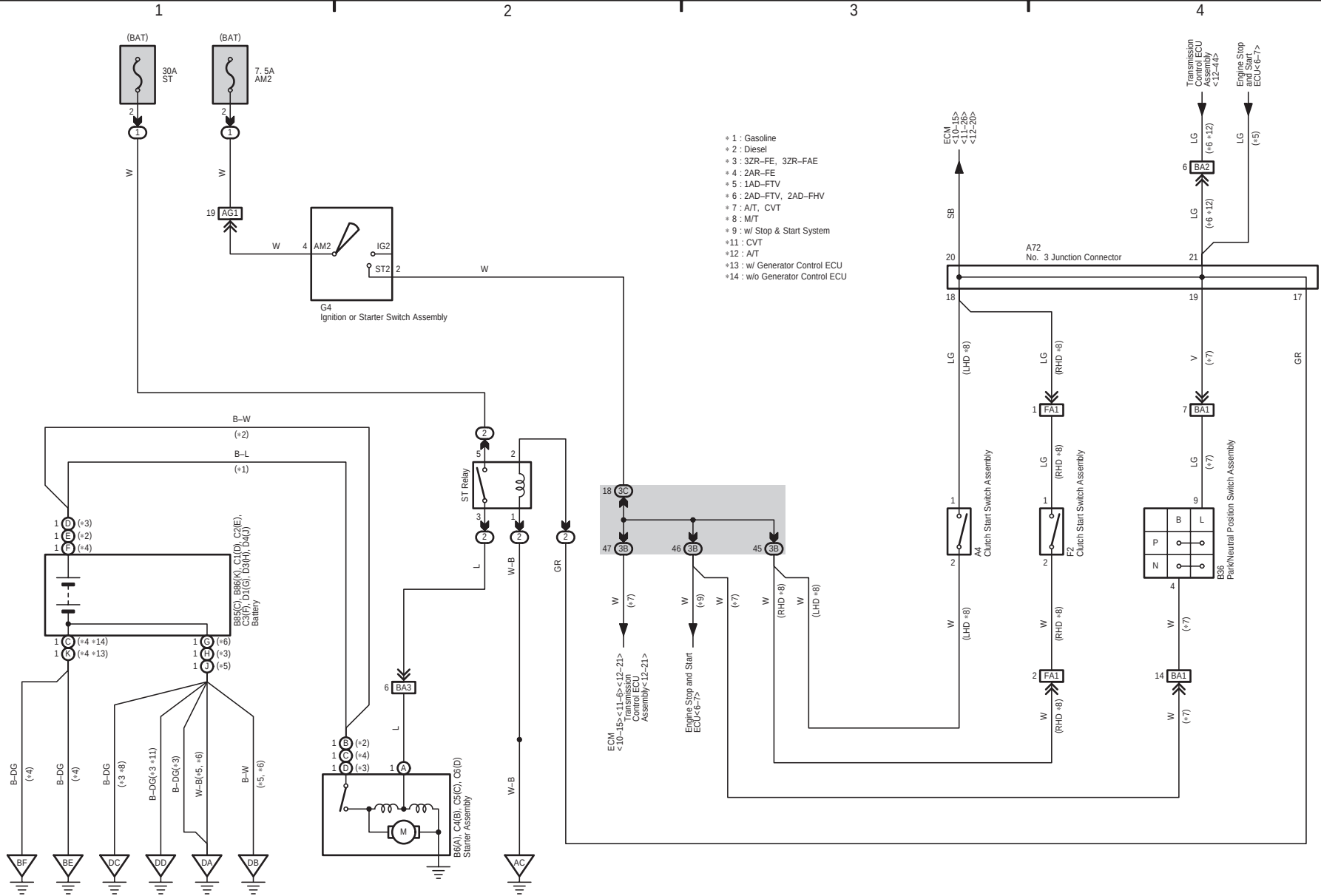
TOYOTA RAV4 (EM3090E)

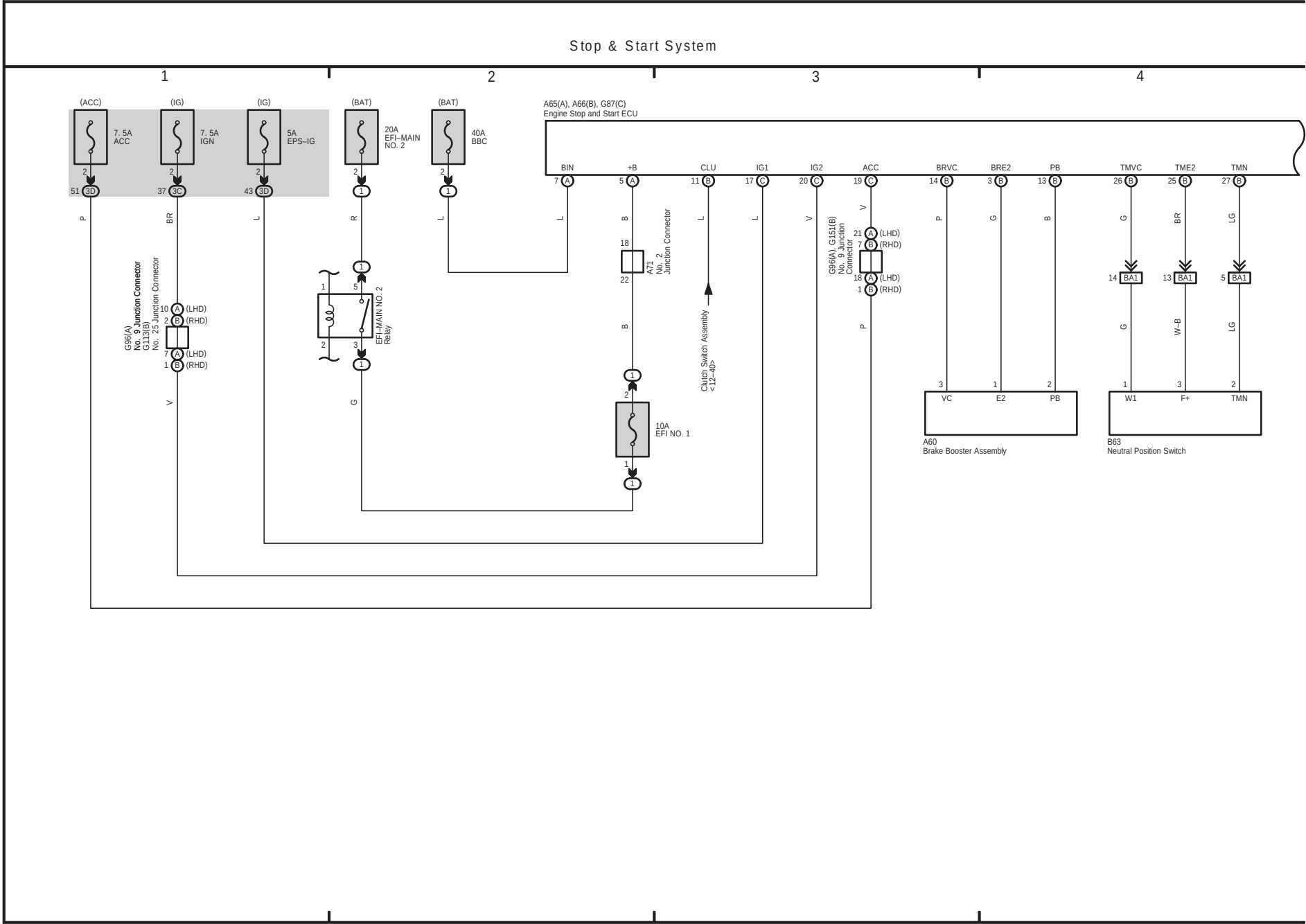
OVERALL ELECTRICAL WIRING DIAGRAM

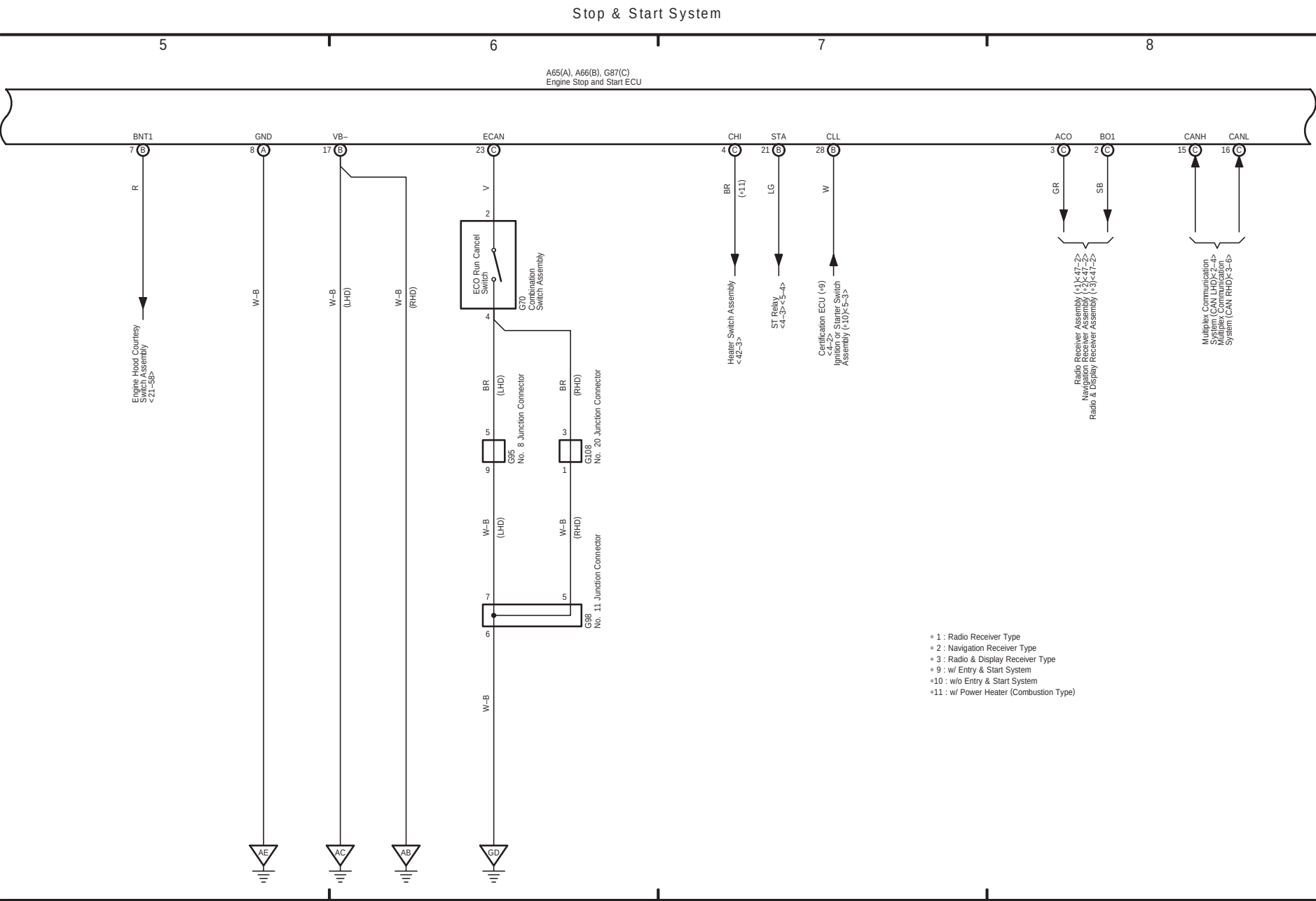


5 TOYOTA RAV4

Starting (w/o Entry & Start System)

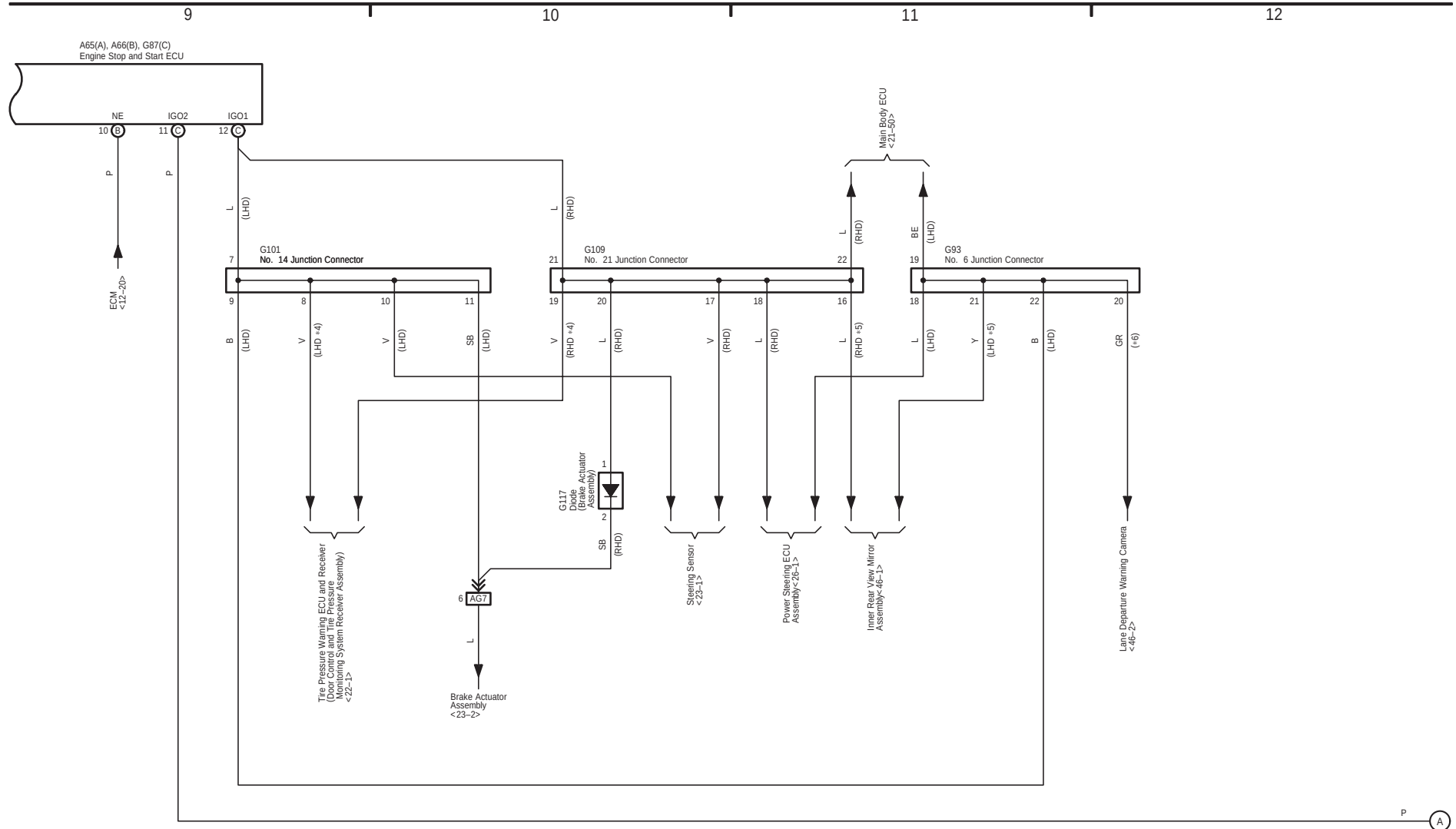






Stop & Start System

- * 4 : w/ Tire Pressure Warning System
- * 5 : w/ Automatic Glare-Resistant EC Mirror
- * 6 : w/ Lane Departure Alert



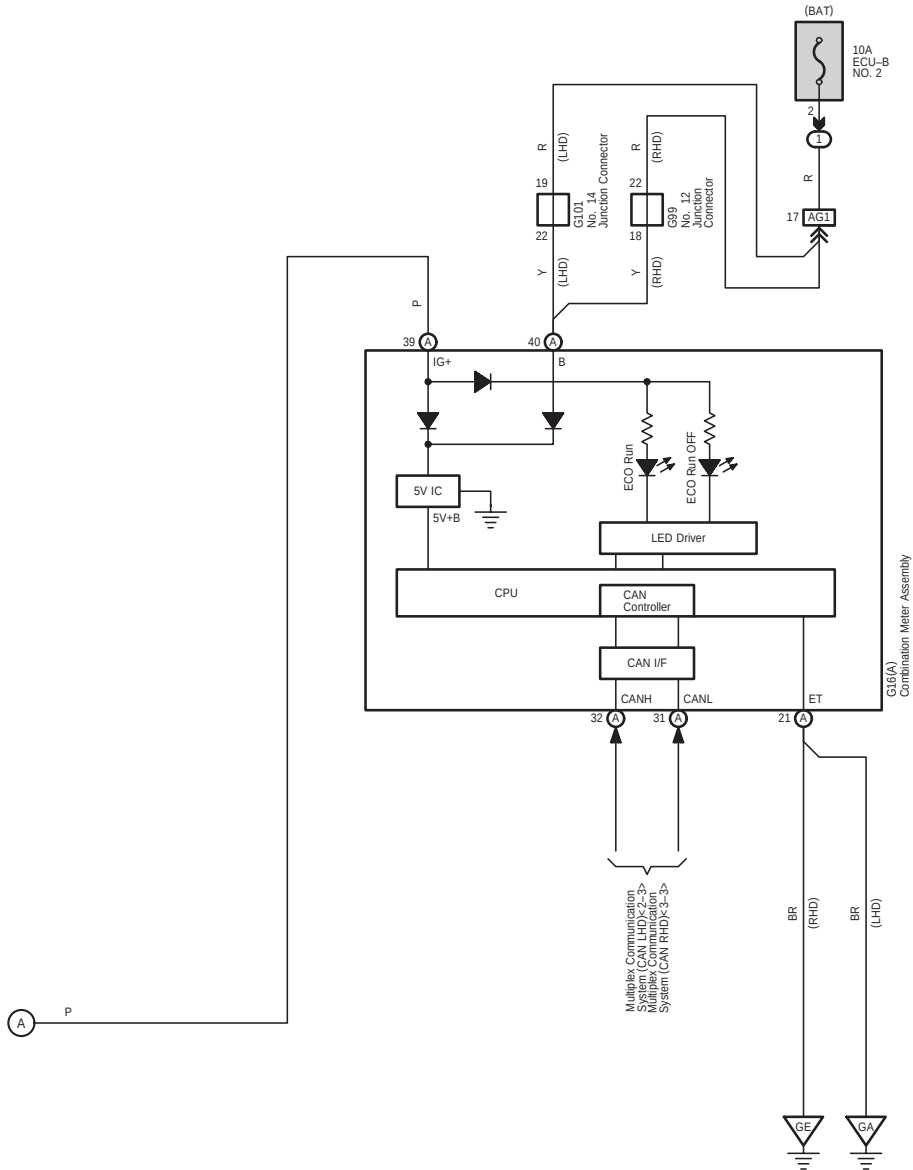
Stop & Start System

13

14

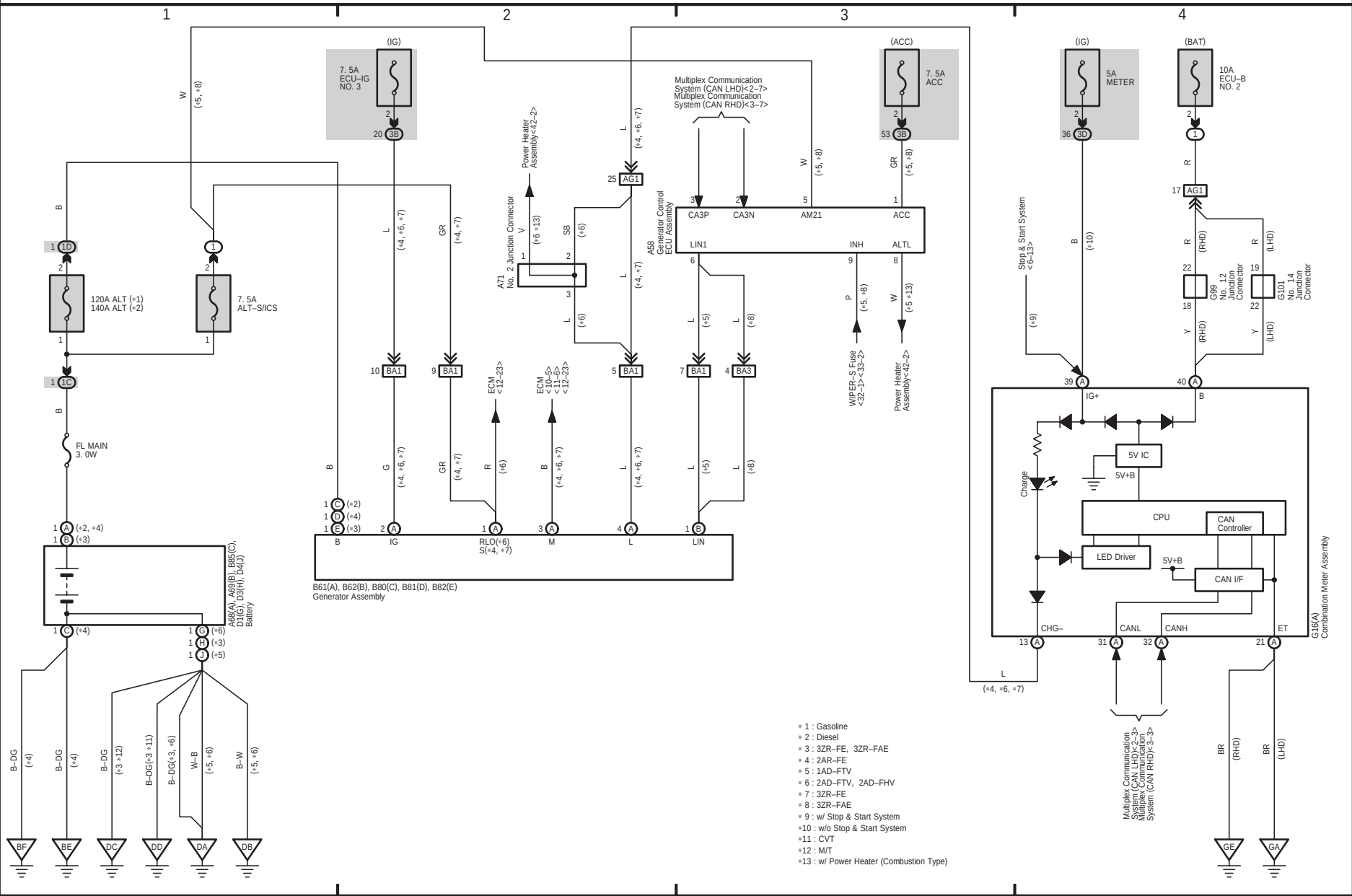
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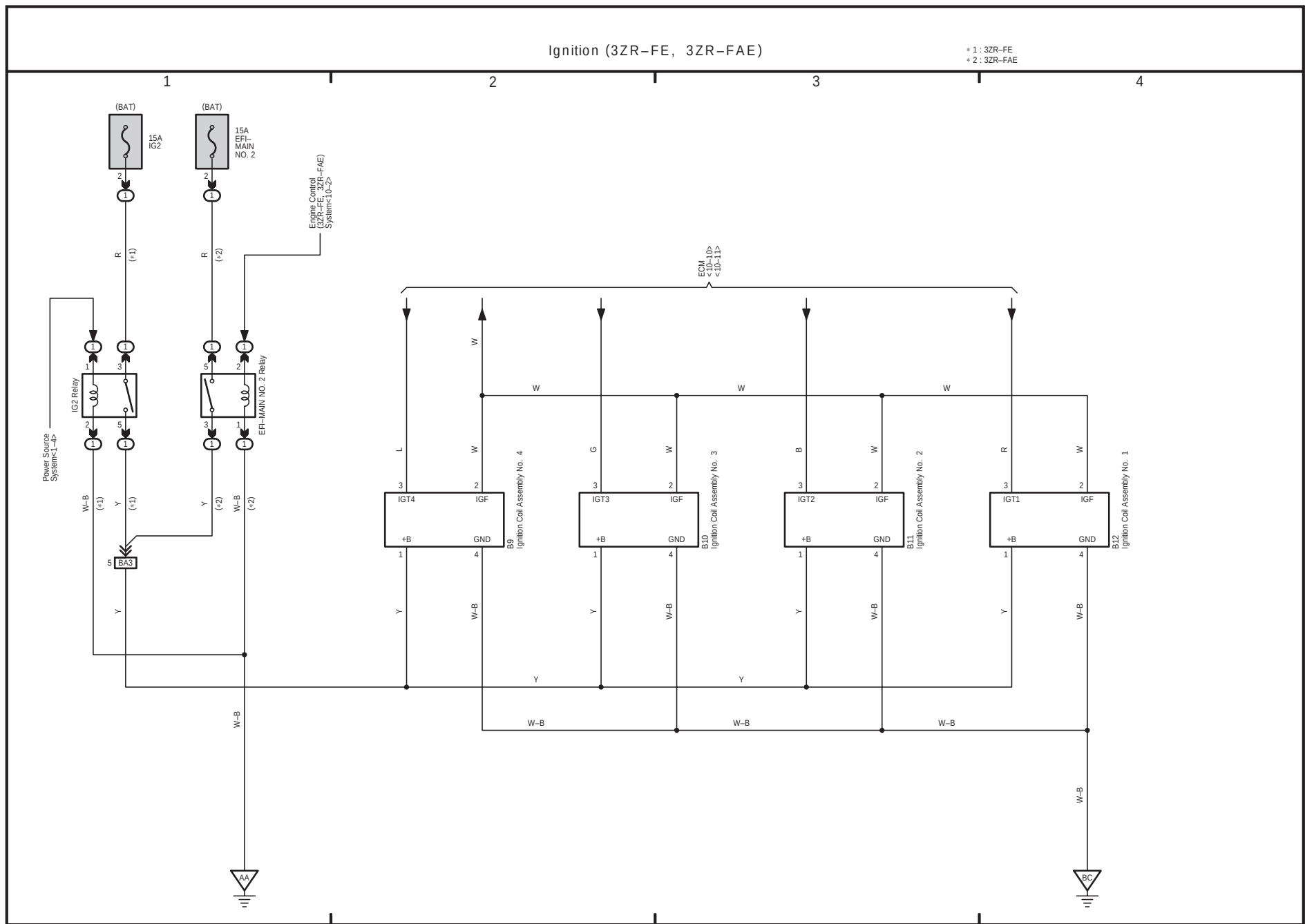
16

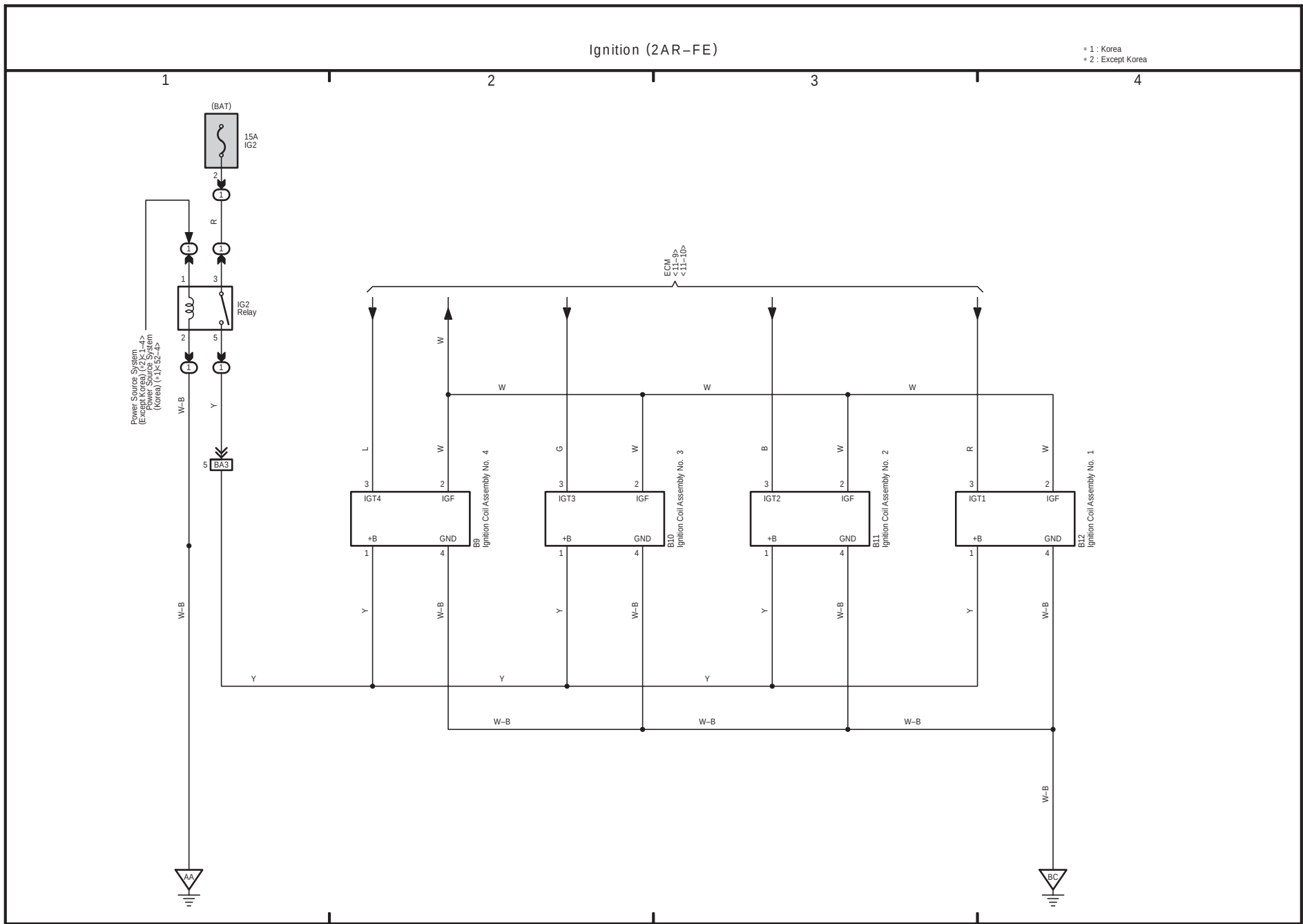


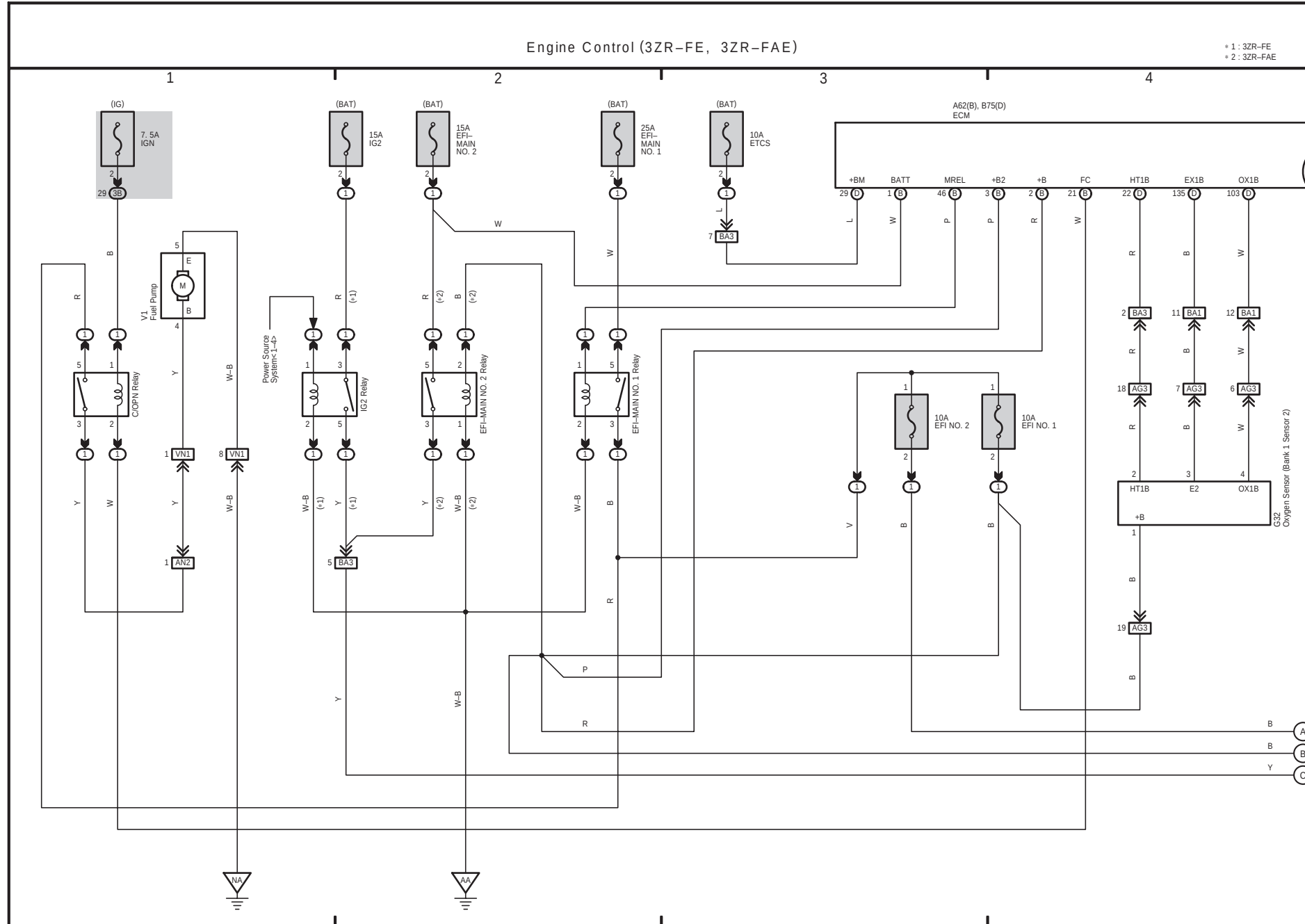
7 TOYOTA RAV4

Charging (Except Korea)



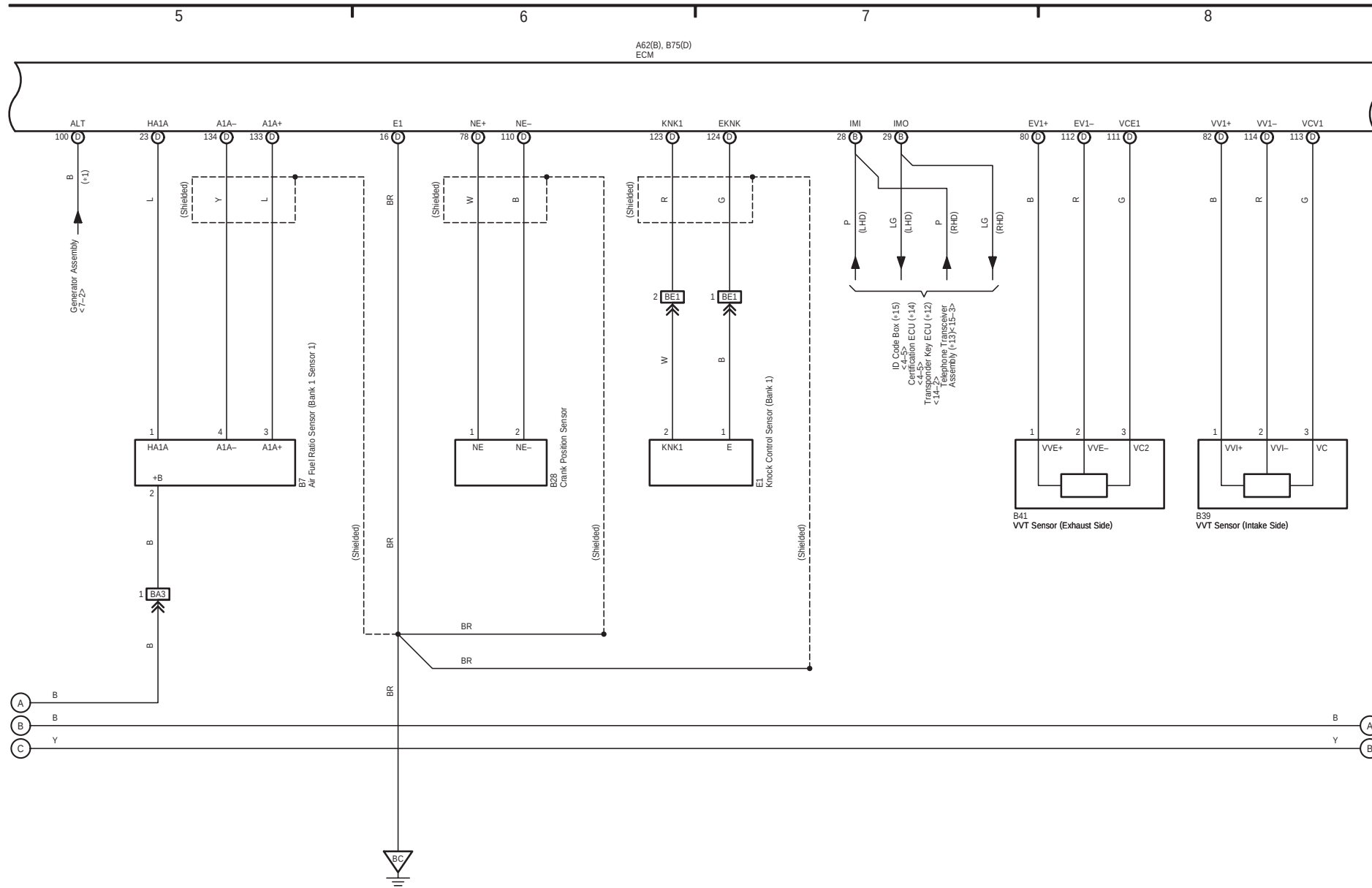


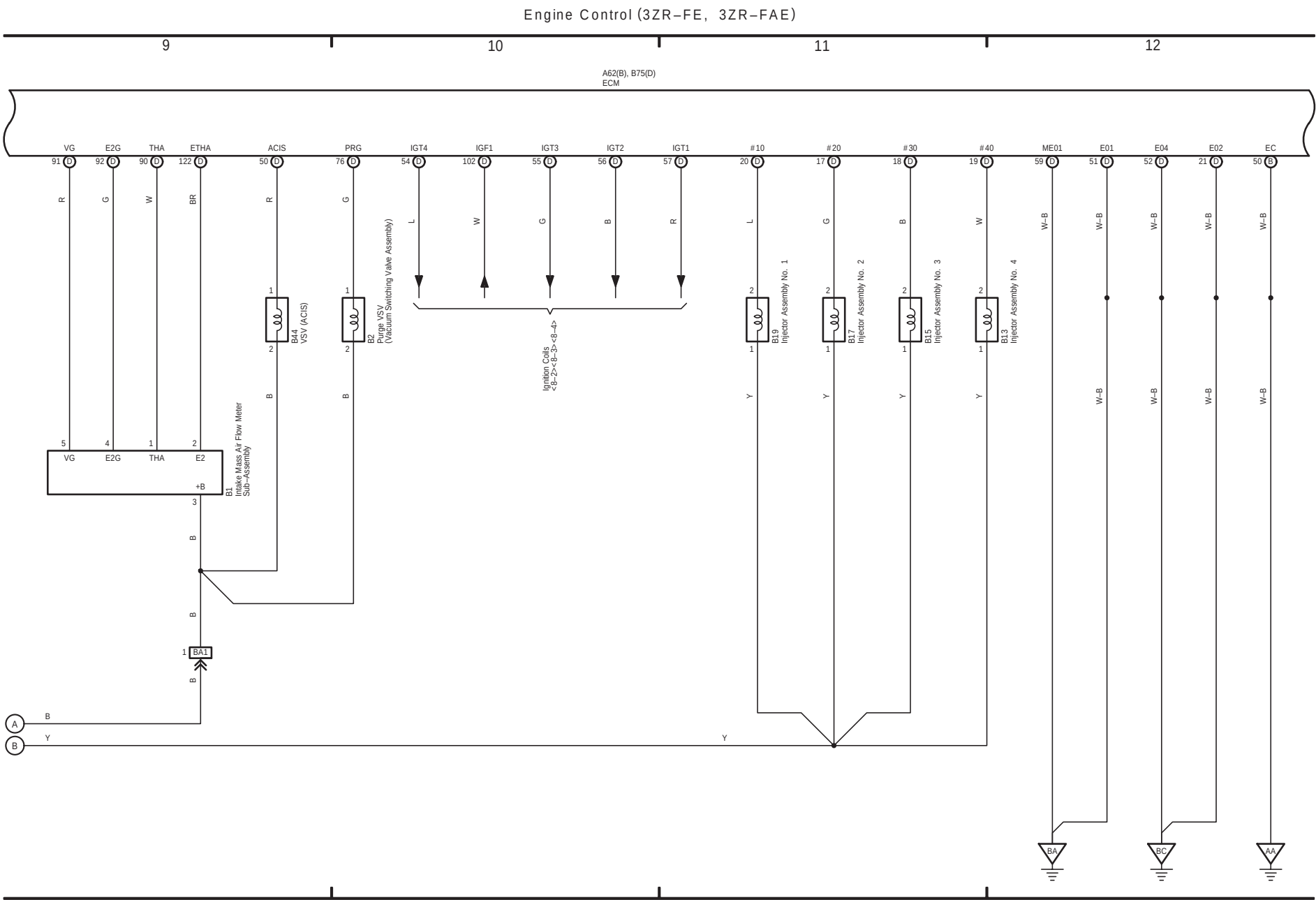


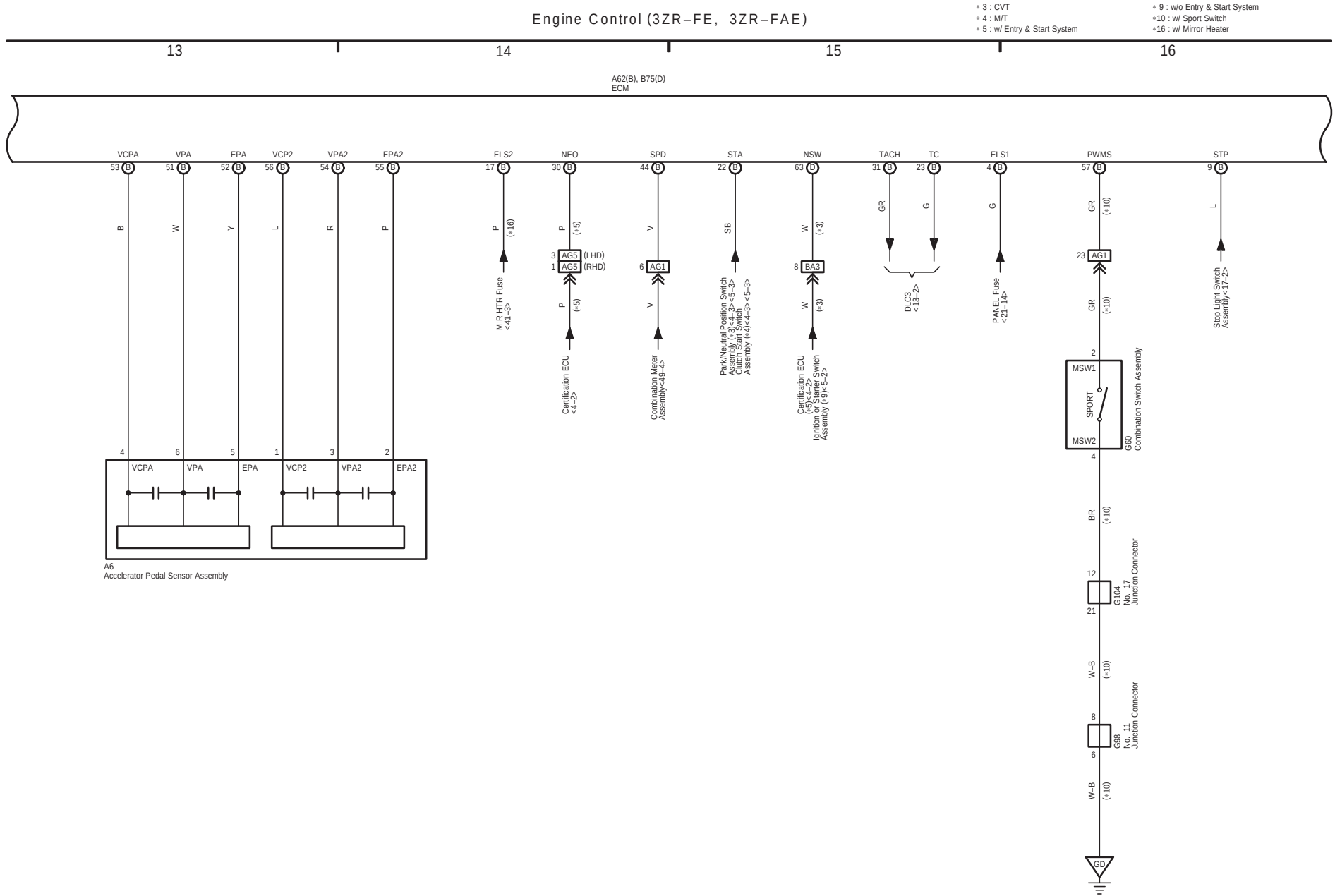


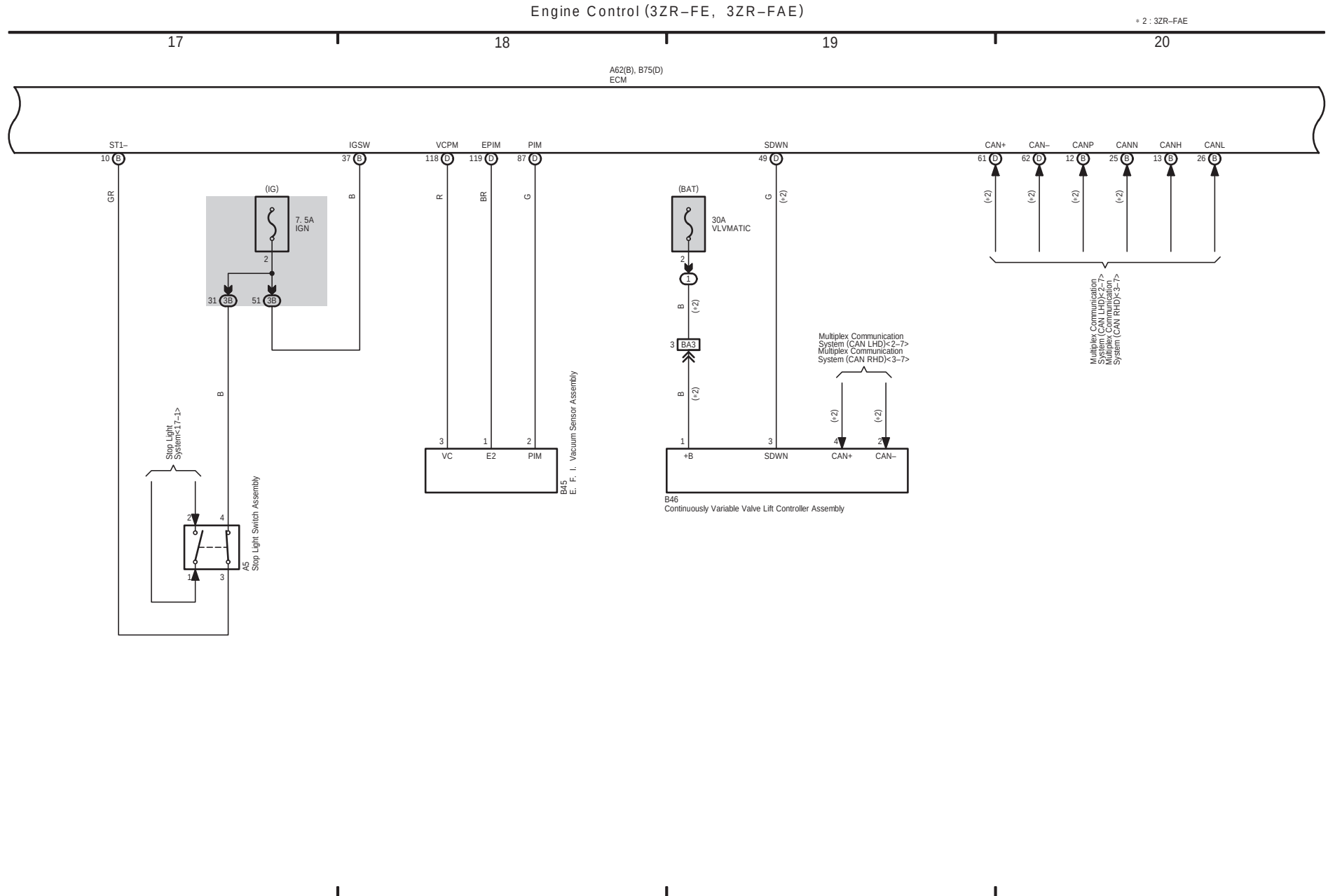
Engine Control (3ZR-FE, 3ZR-FAE)

- * 1 : 3ZR-FE
- *12 : w/ Immobiliser System w/o Entry & Start System
- *13 : w/ Blocking System
- *14 : w/ Entry & Start System w/o ID Code Box
- *15 : w/ Entry & Start System w/ ID Code Box







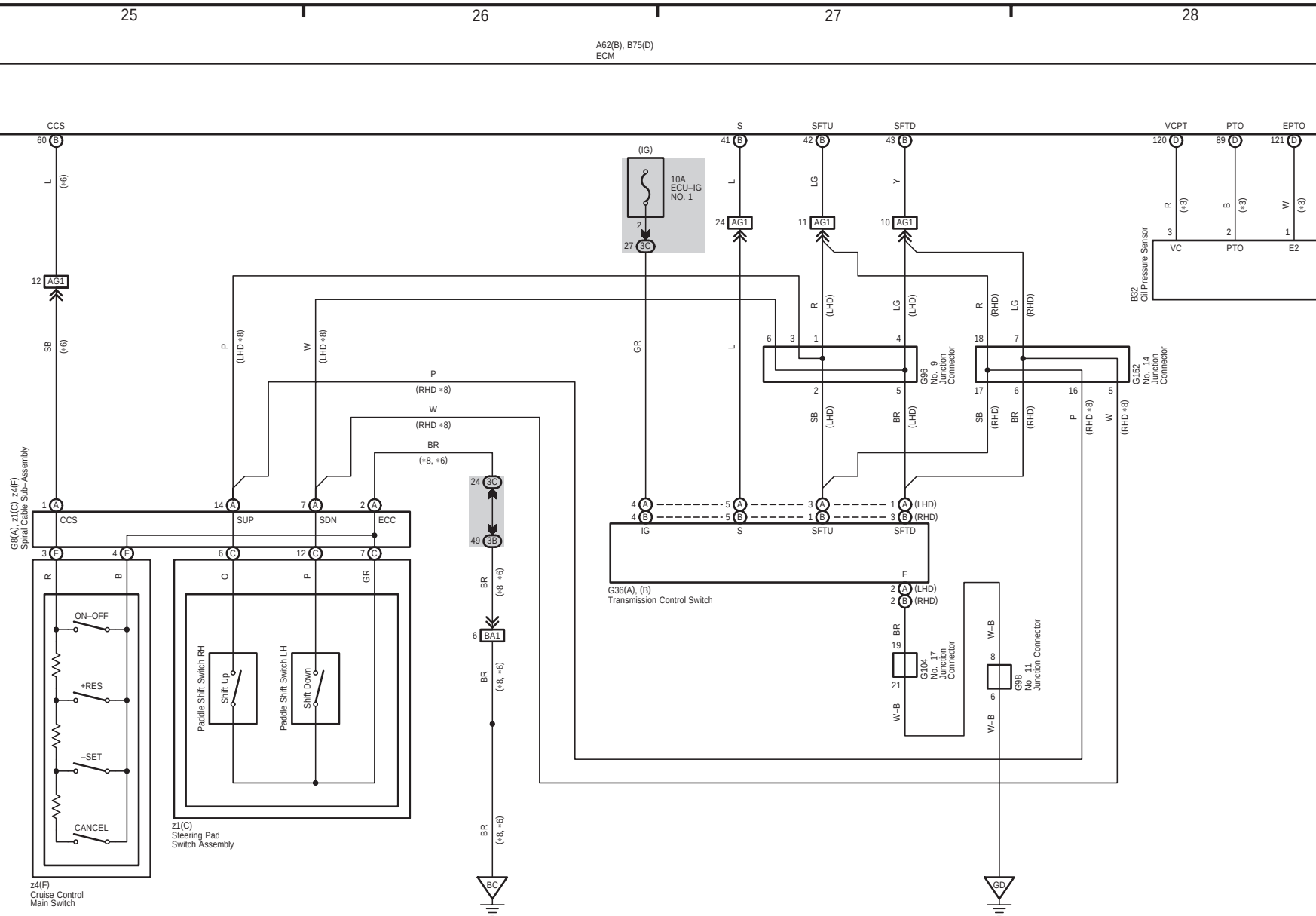




Cruise Control
(3ZR-FE, 3ZR-FAE)

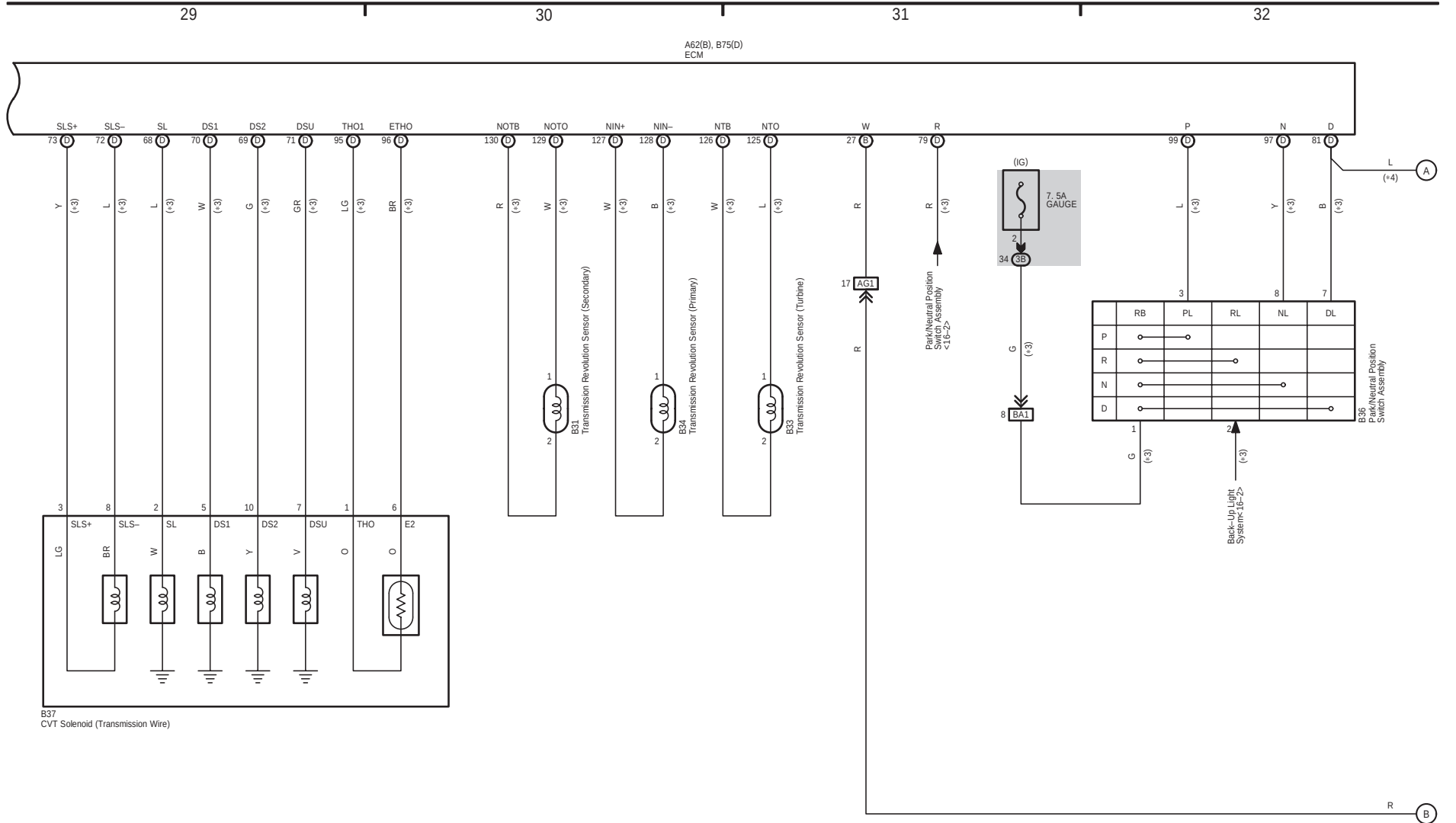
CVT and Shift Indicator

- * 3 : CVT
- * 6 : w/ Cruise Control
- * 8 : w/ Paddle Shift Switch

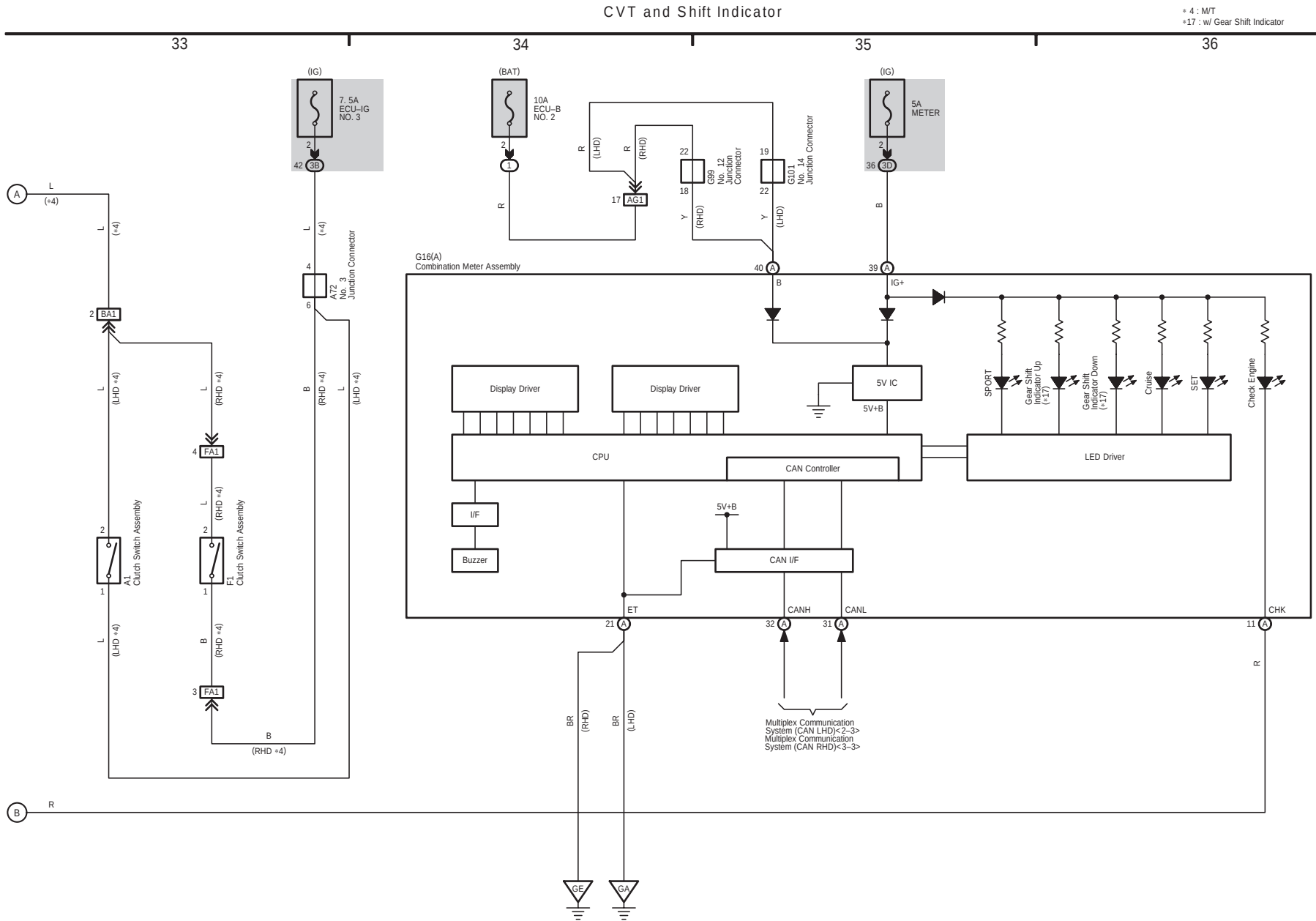


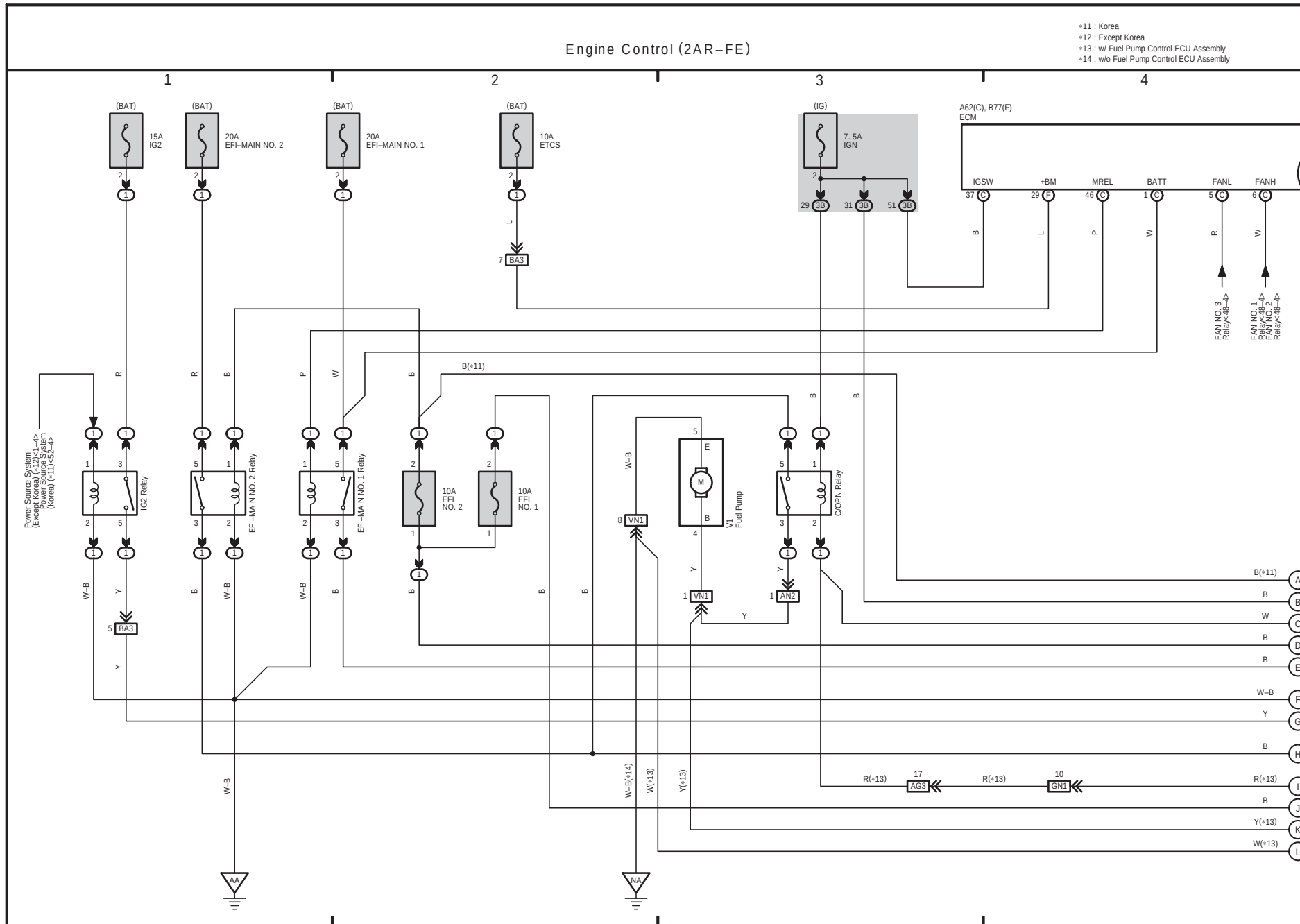
CVT and Shift Indicator

* 3 : CVT
* 4 : M/T



10 TOYOTA RAV4 (Cont' d)

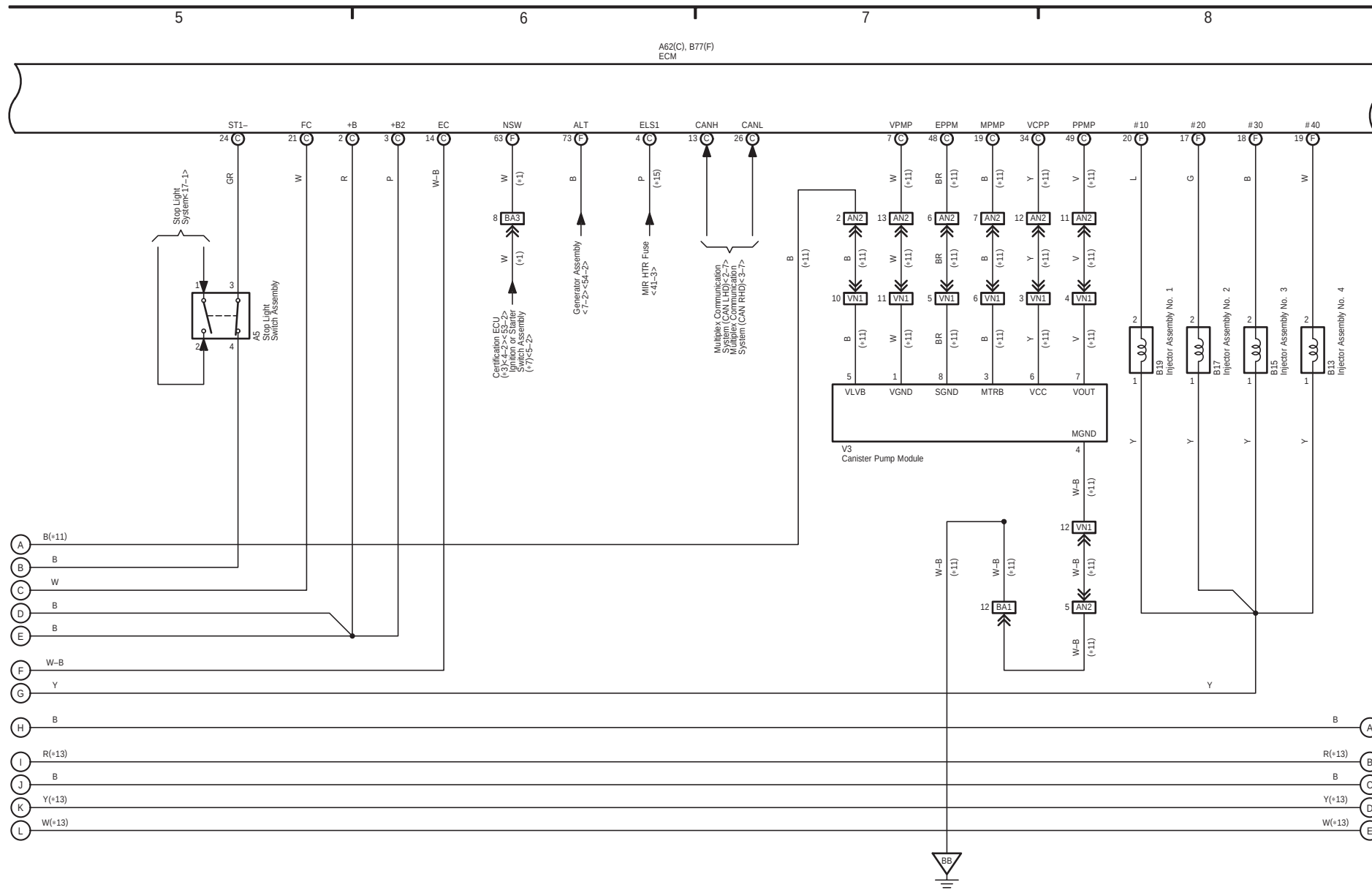


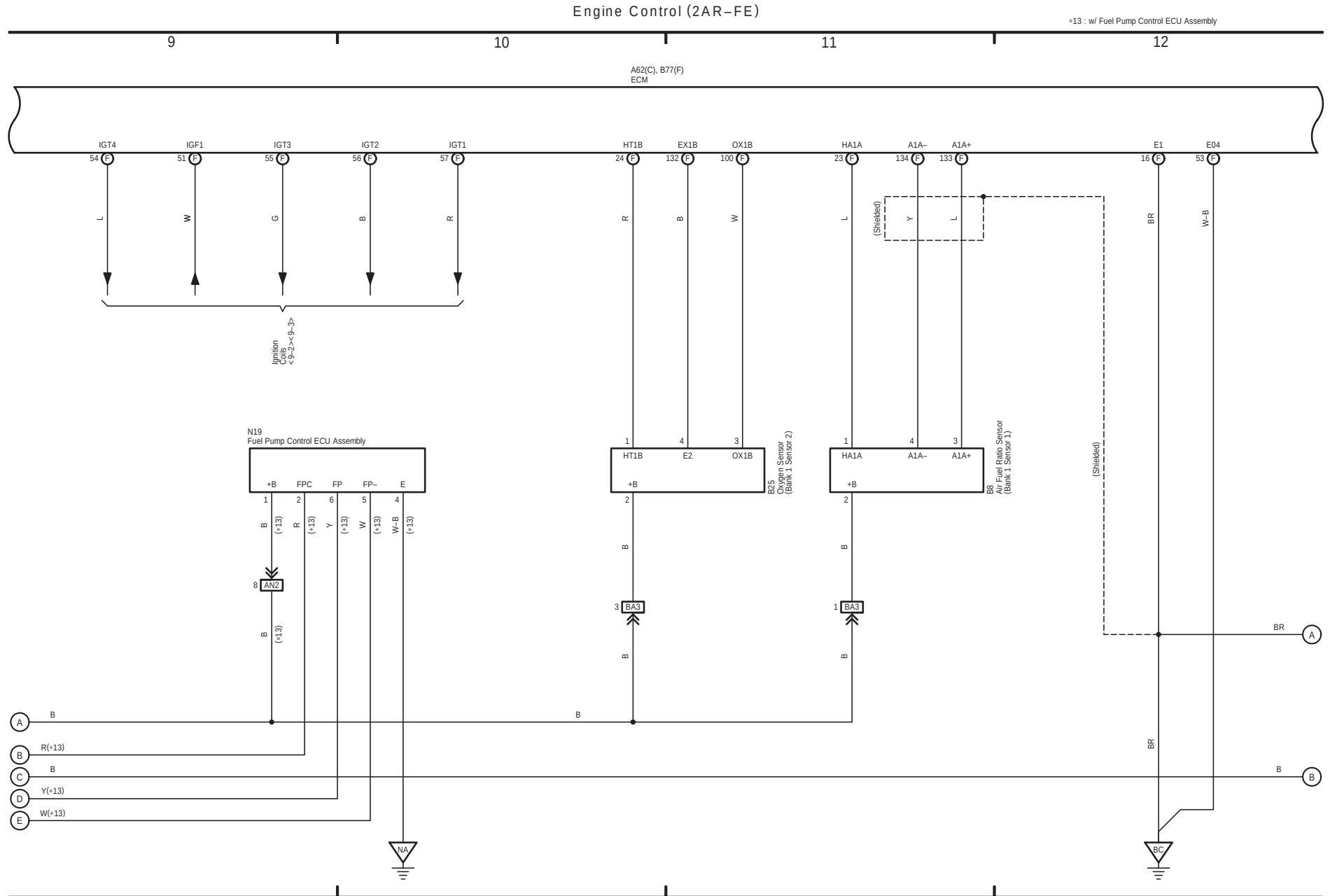


Engine Control (2AR-FE)

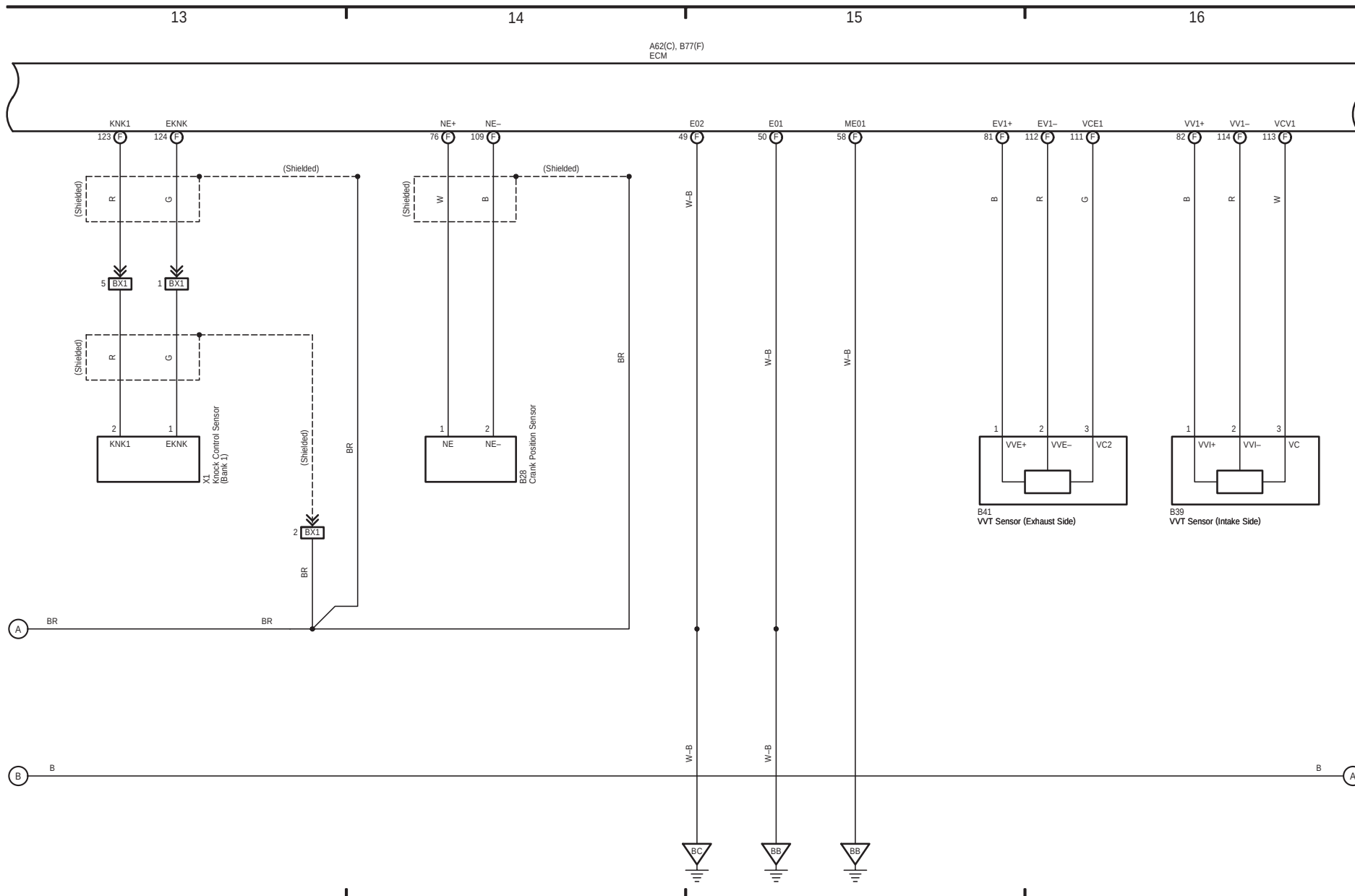
* 1 : AT
 * 3 : w/ Entry & Start System
 * 7 : w/o Entry & Start System

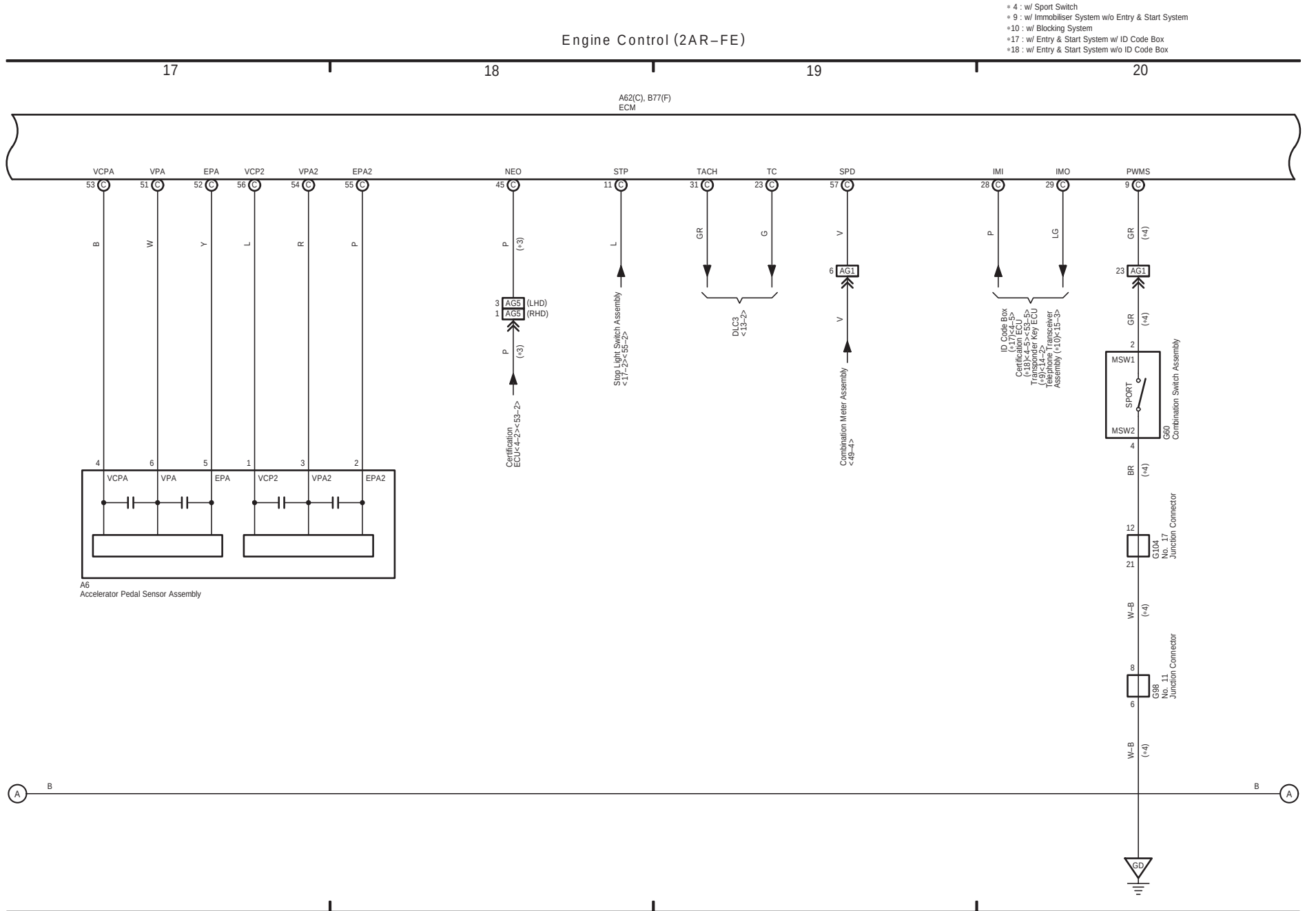
*11 : Korea
 *13 : w/ Fuel Pump Control ECU Assembly
 *15 : w/ Mirror Heater



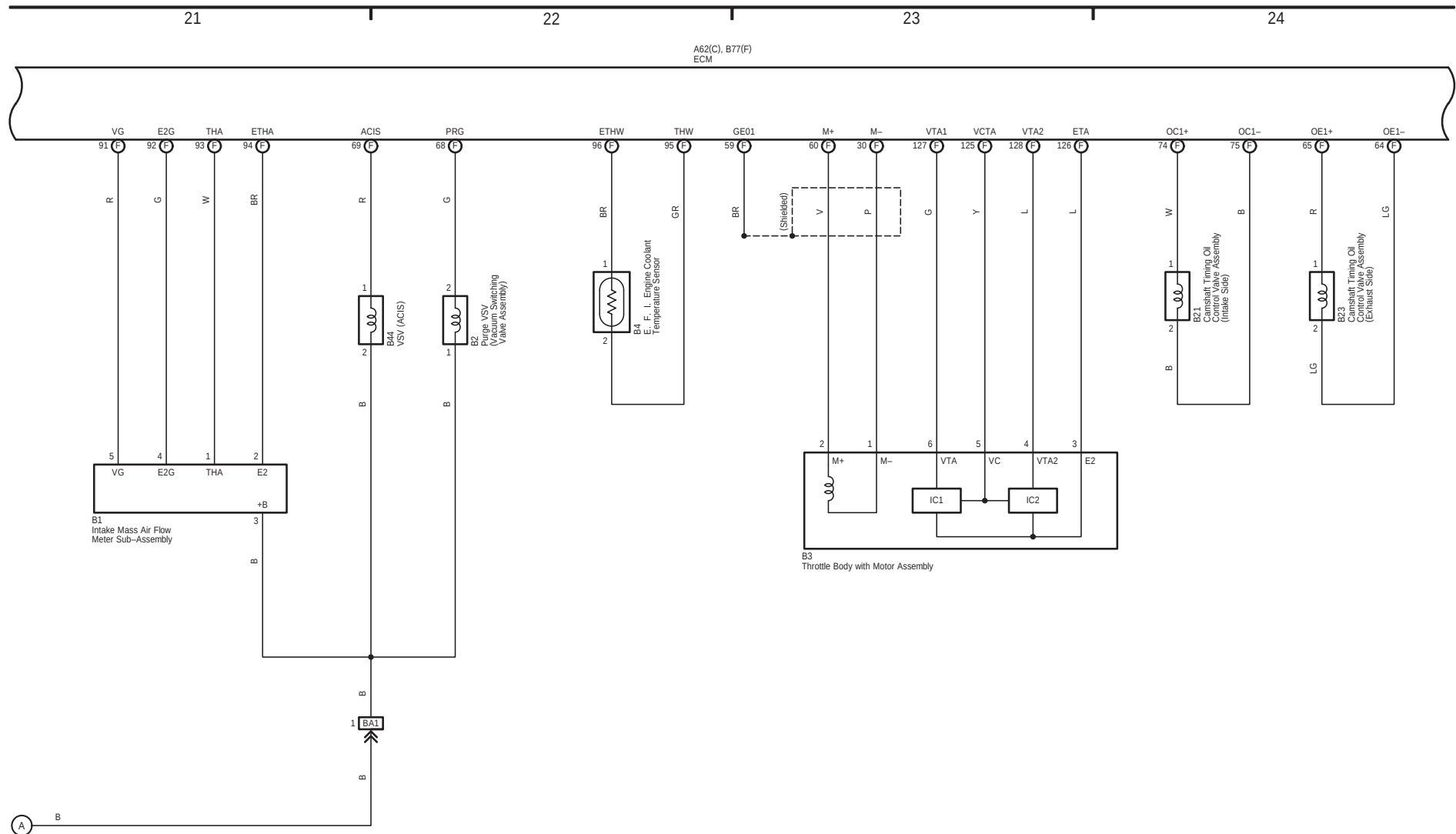


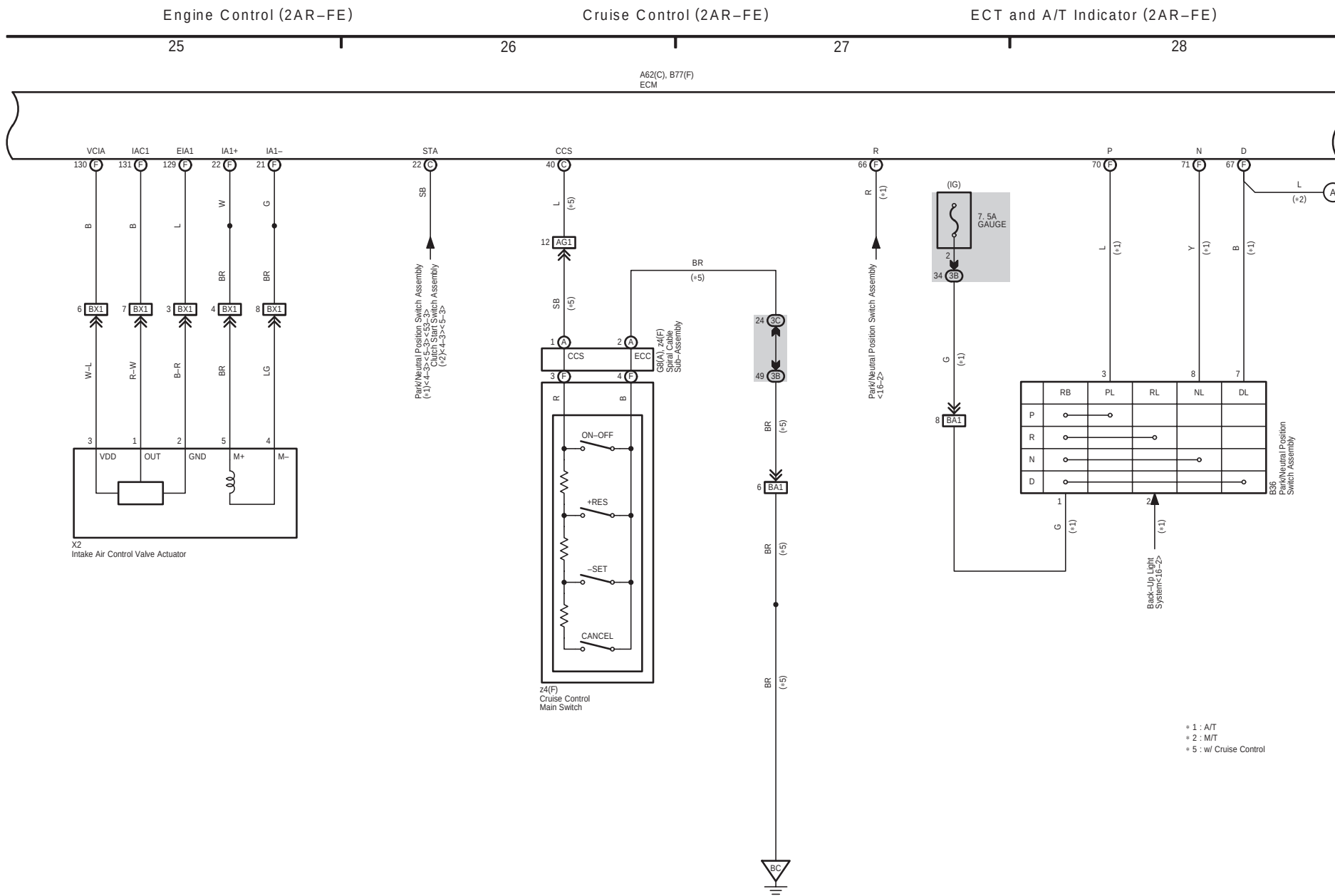
Engine Control (2AR-FE)





M





ECT and A/T Indicator (2AR-FE)

* 1 : A/T
 * 2 : M/T
 * 11 : Korea
 * 12 : Except Korea

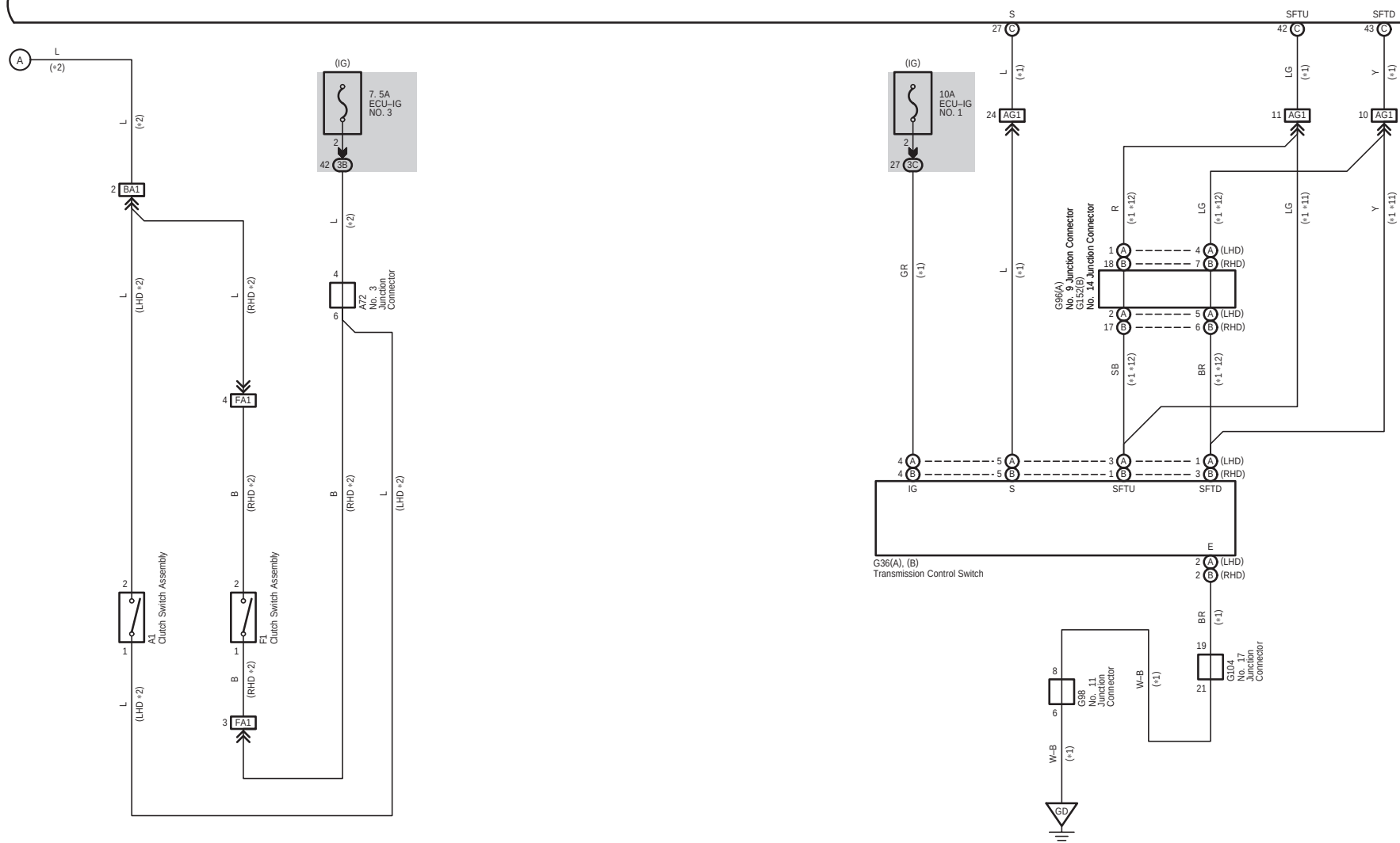
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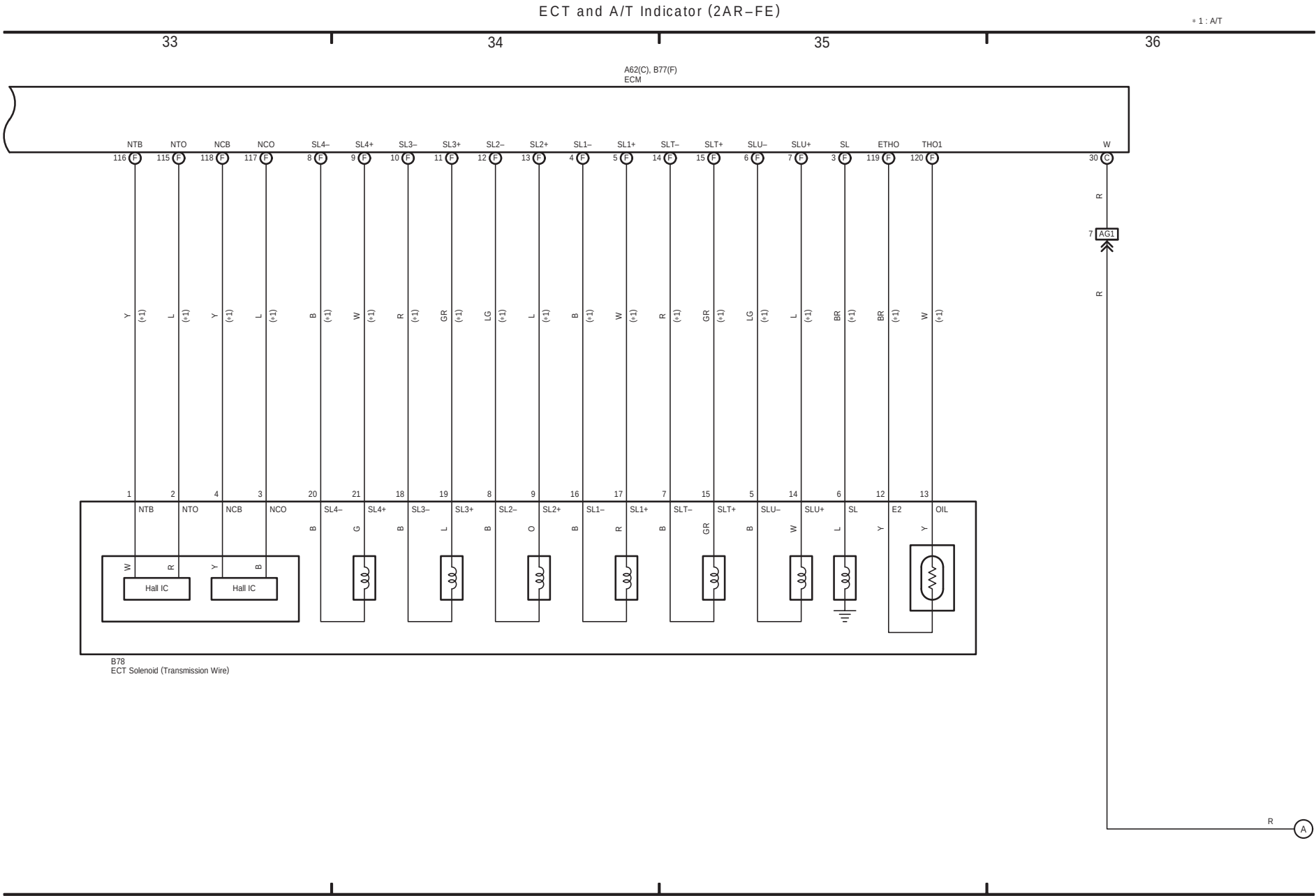
30

31

32

A62(C), B77(F)
 ECM

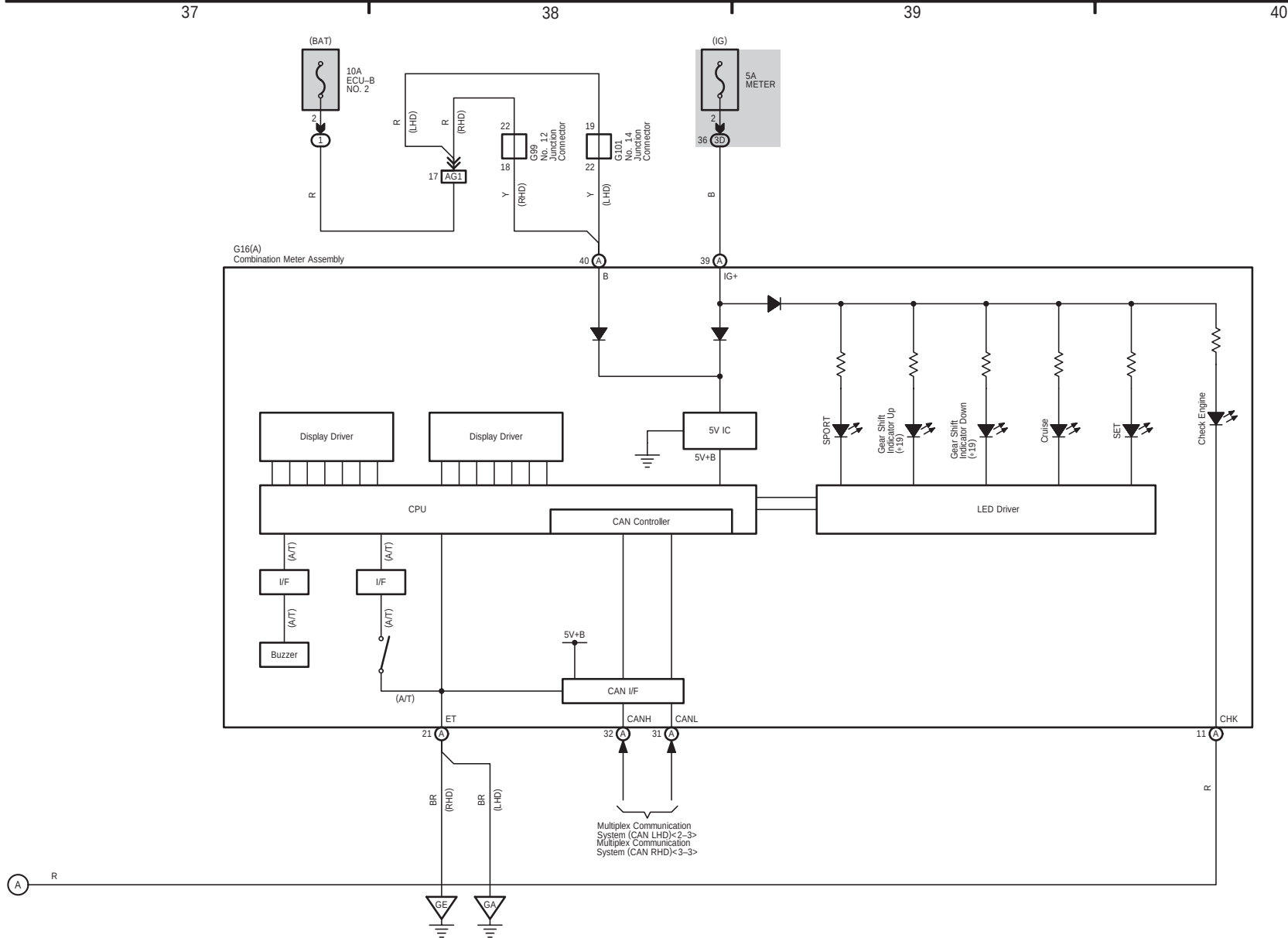




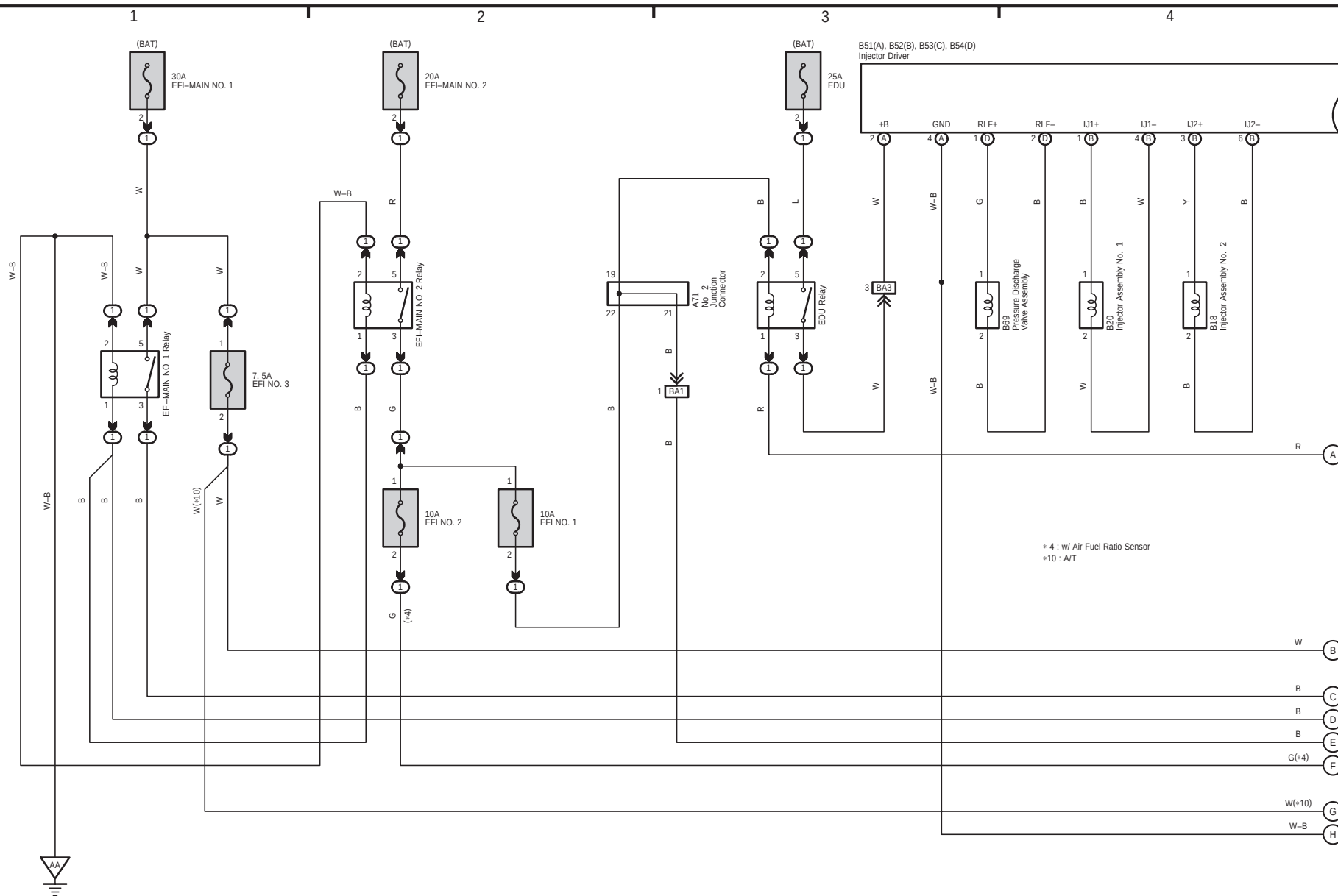
11 TOYOTA RAV4 (Cont' d)

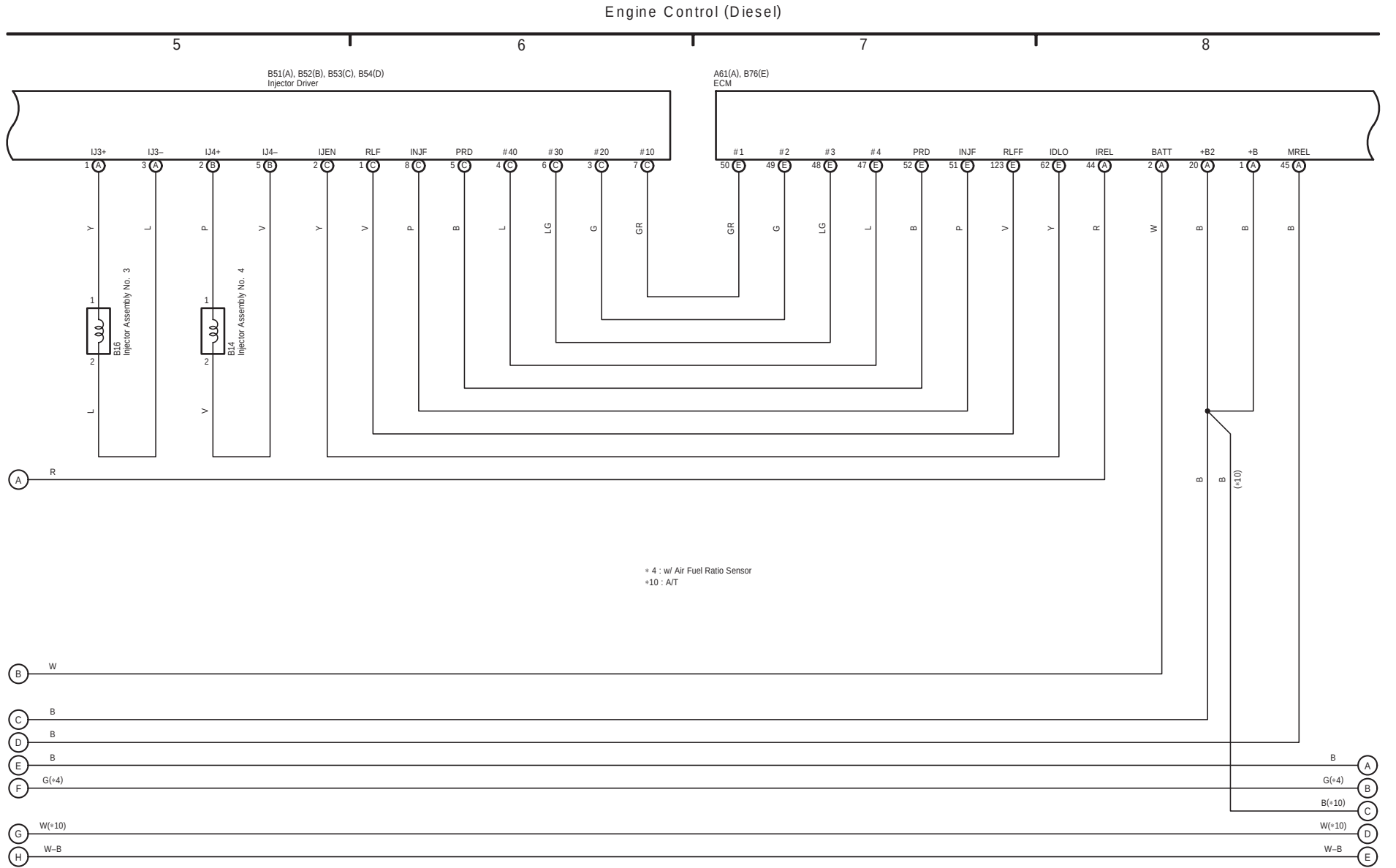
ECT and A/T Indicator (2AR-FE)

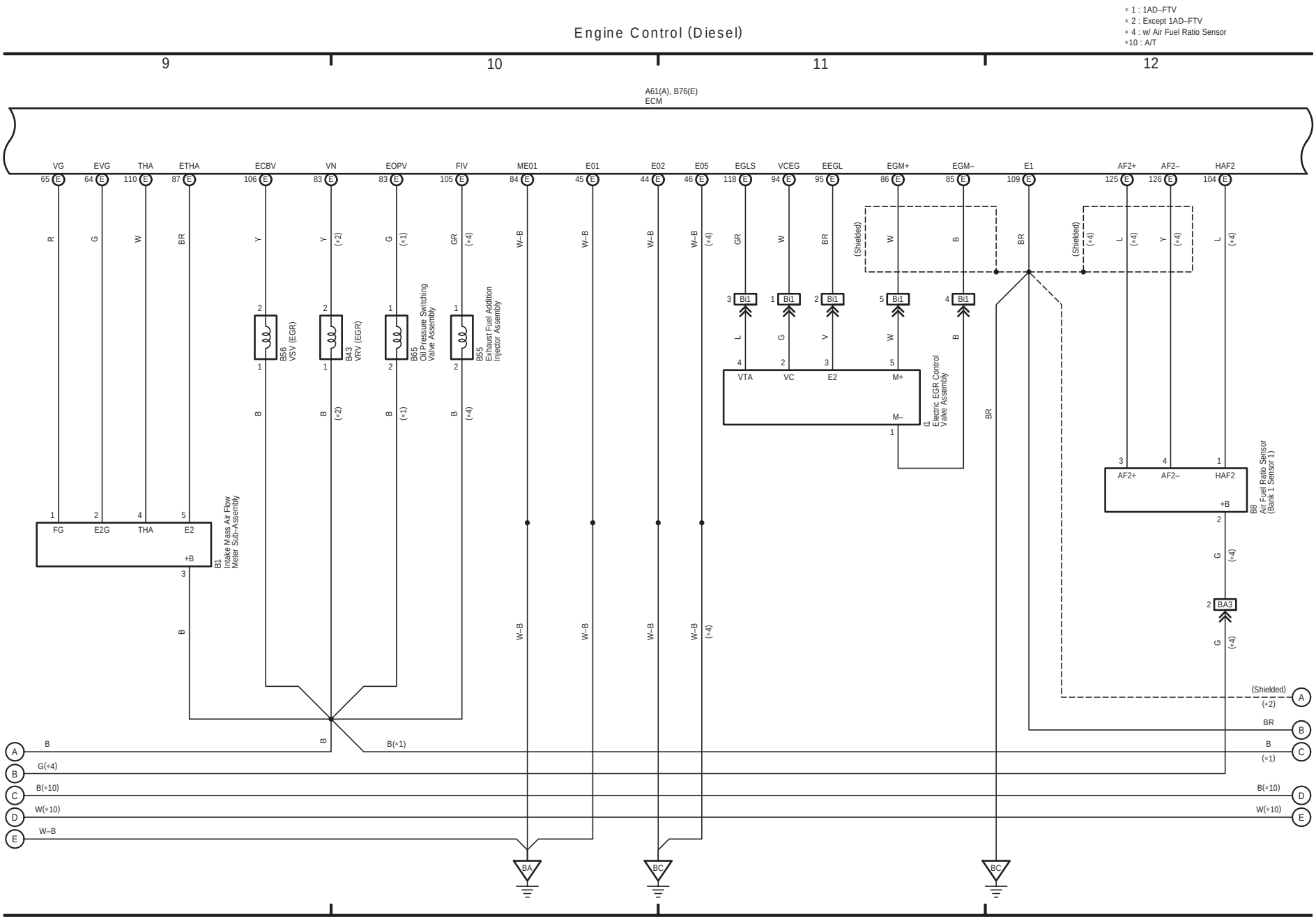
*19 : w/ Gear Shift Indicator



Engine Control (Diesel)



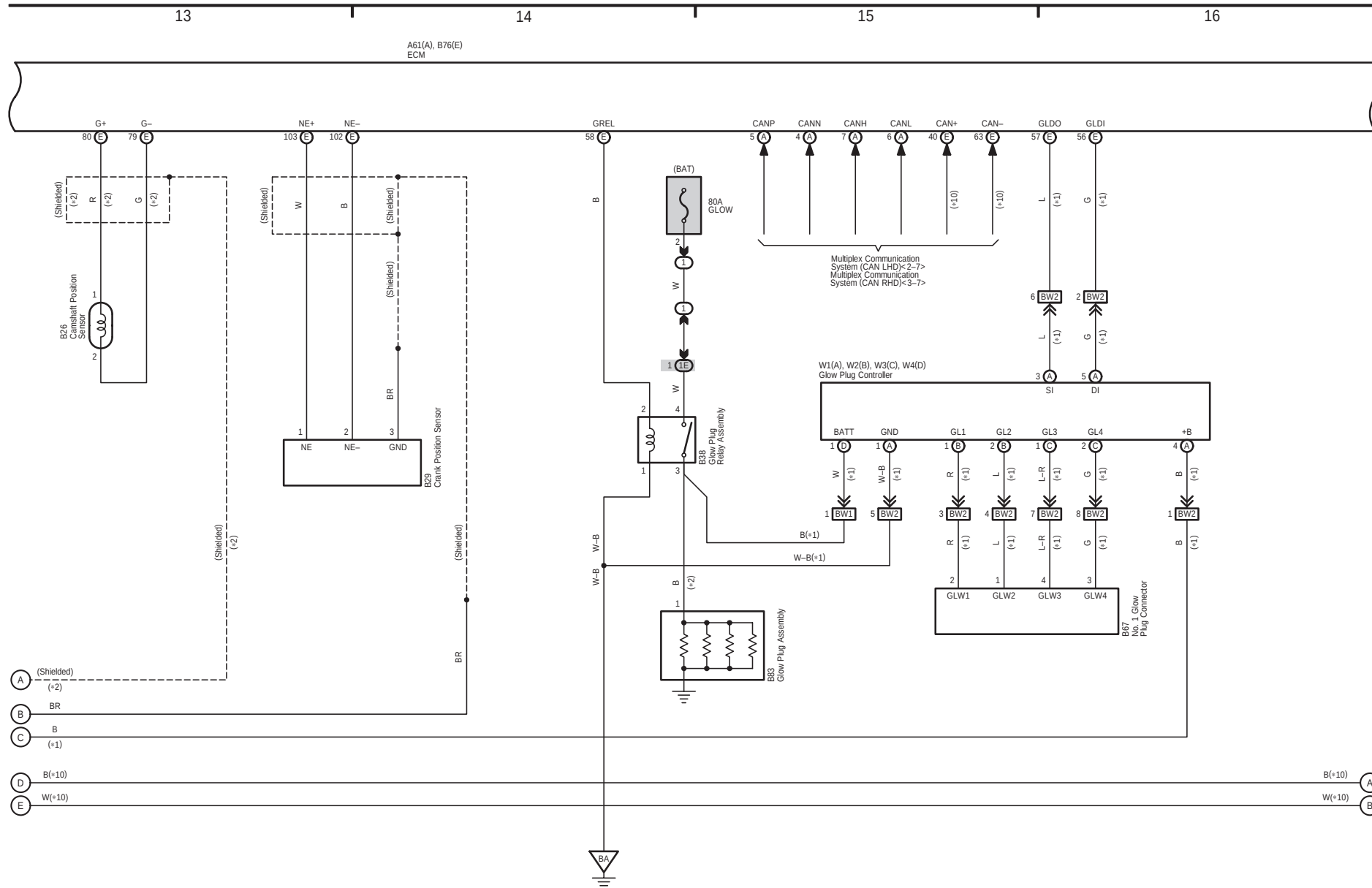


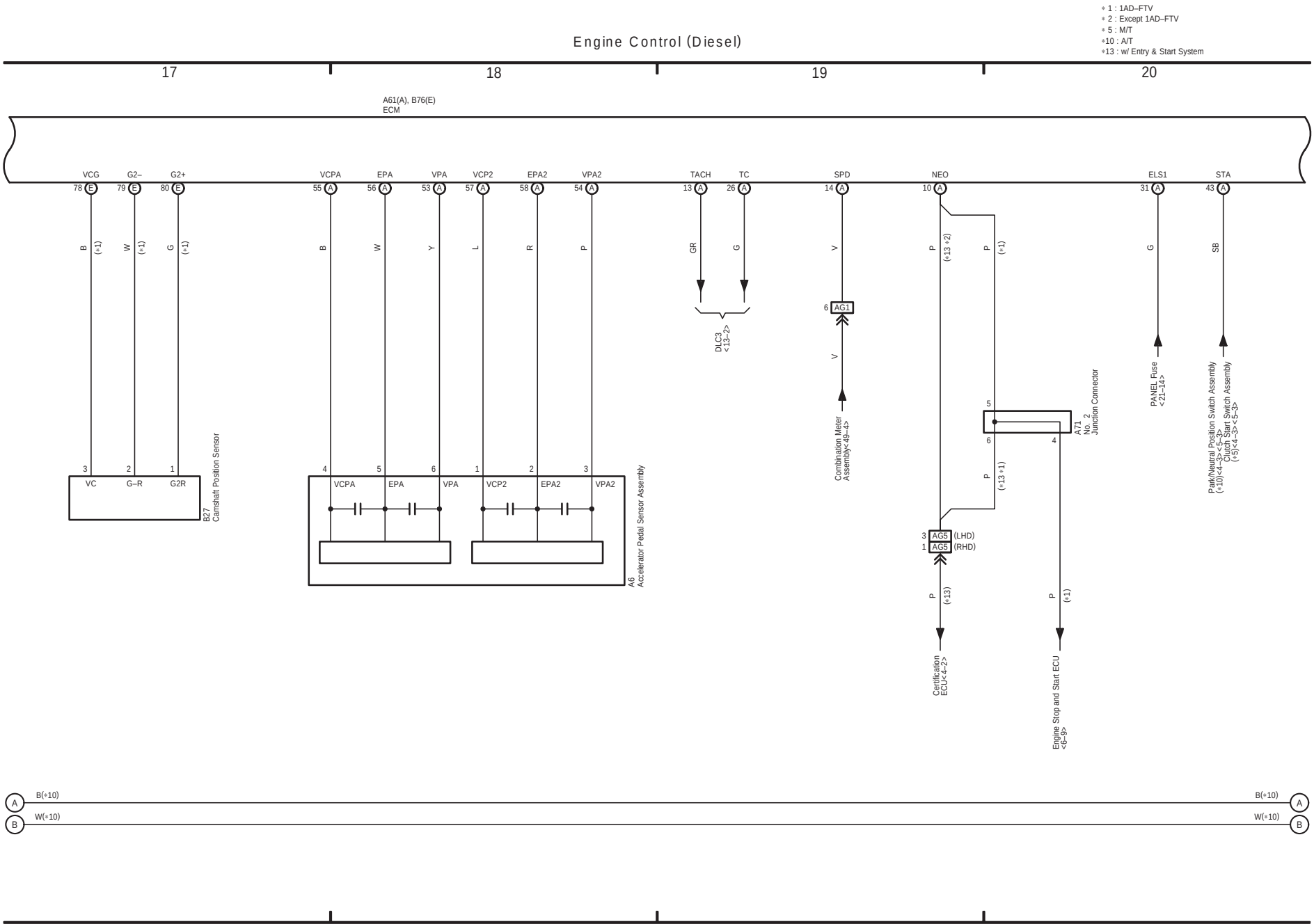


TOYOTA RAV4 (EM3090E)

Engine Control (Diesel)

* 1 : 1AD-FTV
 * 2 : Except 1AD-FTV
 * 10 : A/T

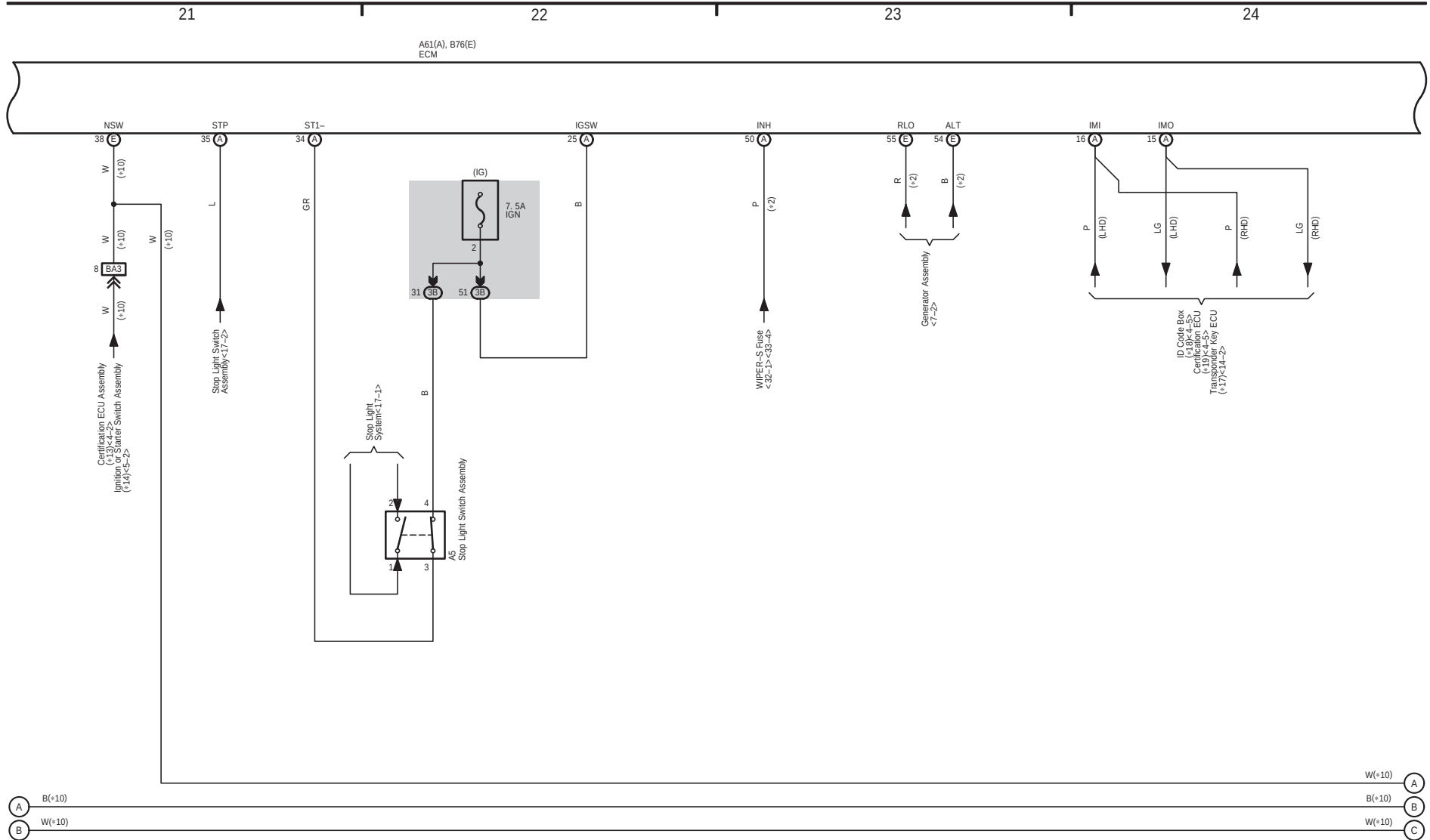




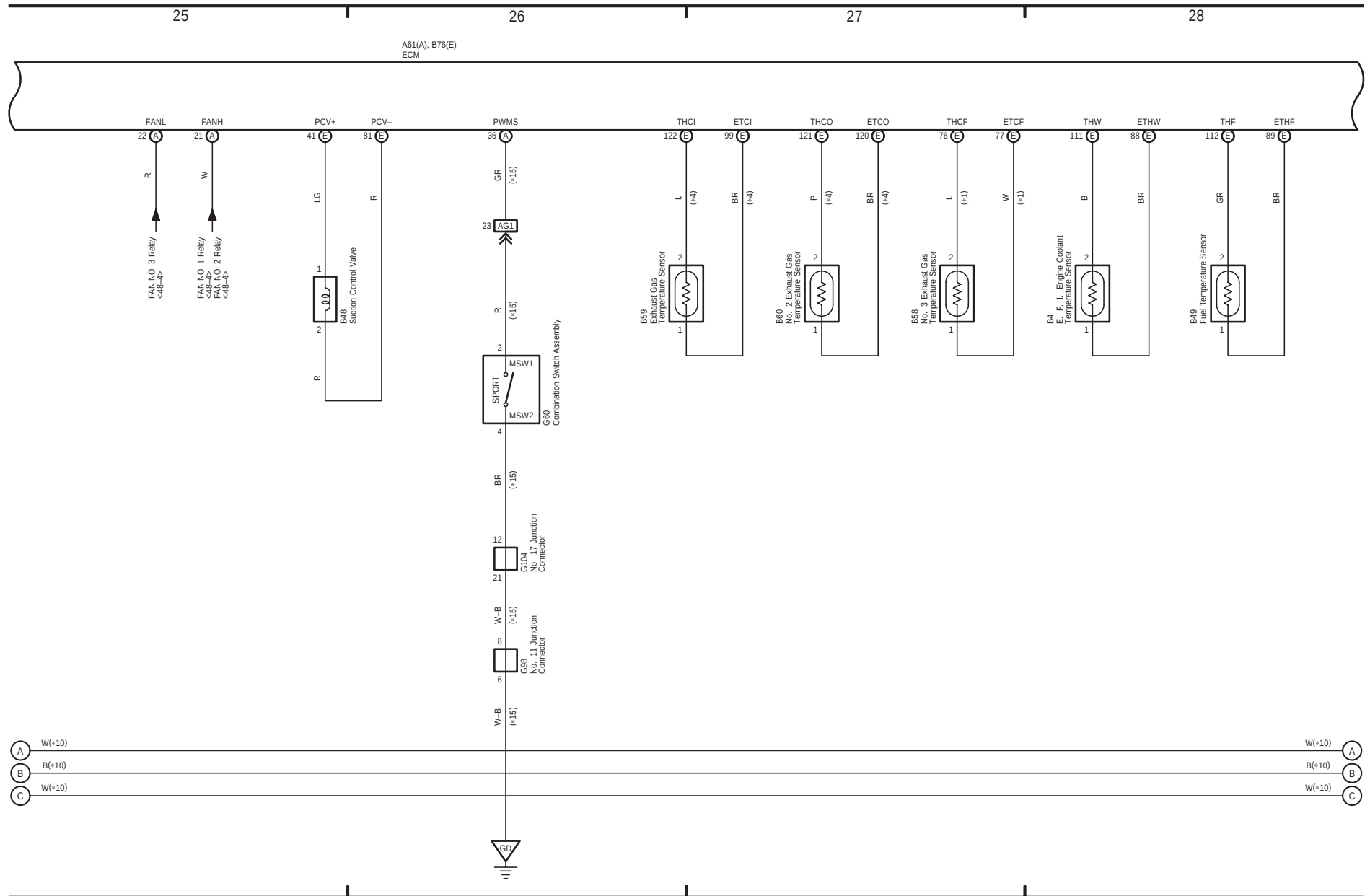
Engine Control (Diesel)

- * 2 : Except 1AD-FTV
- * 10 : A/T
- * 13 : w/ Entry & Start System
- * 14 : w/o Entry & Start System

- * 16 : w/ ID Code Box
- * 17 : w/ Immobiliser System w/o Entry & Start System
- * 18 : w/ Entry & Start System w/ ID Code Box
- * 19 : w/ Entry & Start System w/o ID Code Box

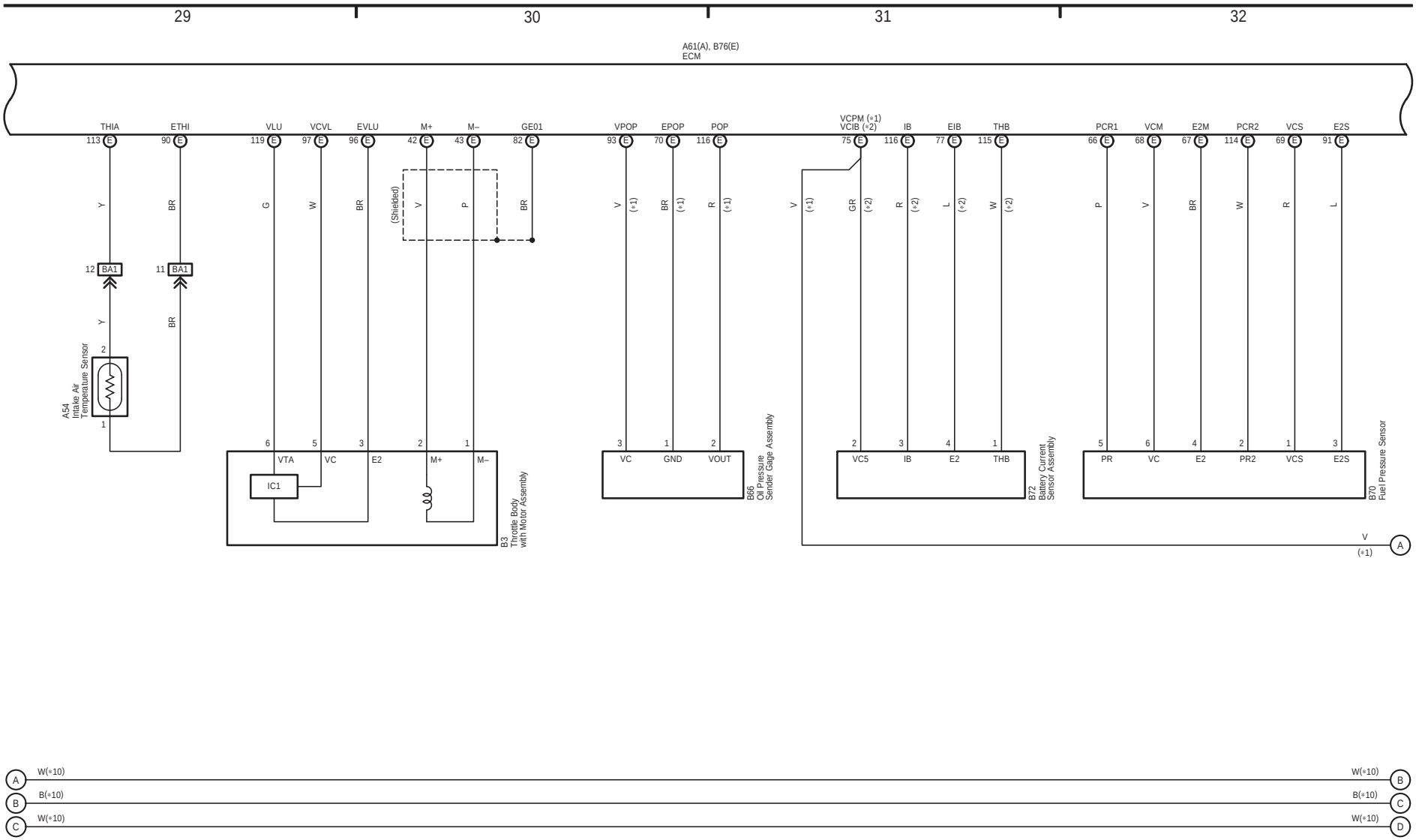


TOYOTA RAV4 (EM3090E)

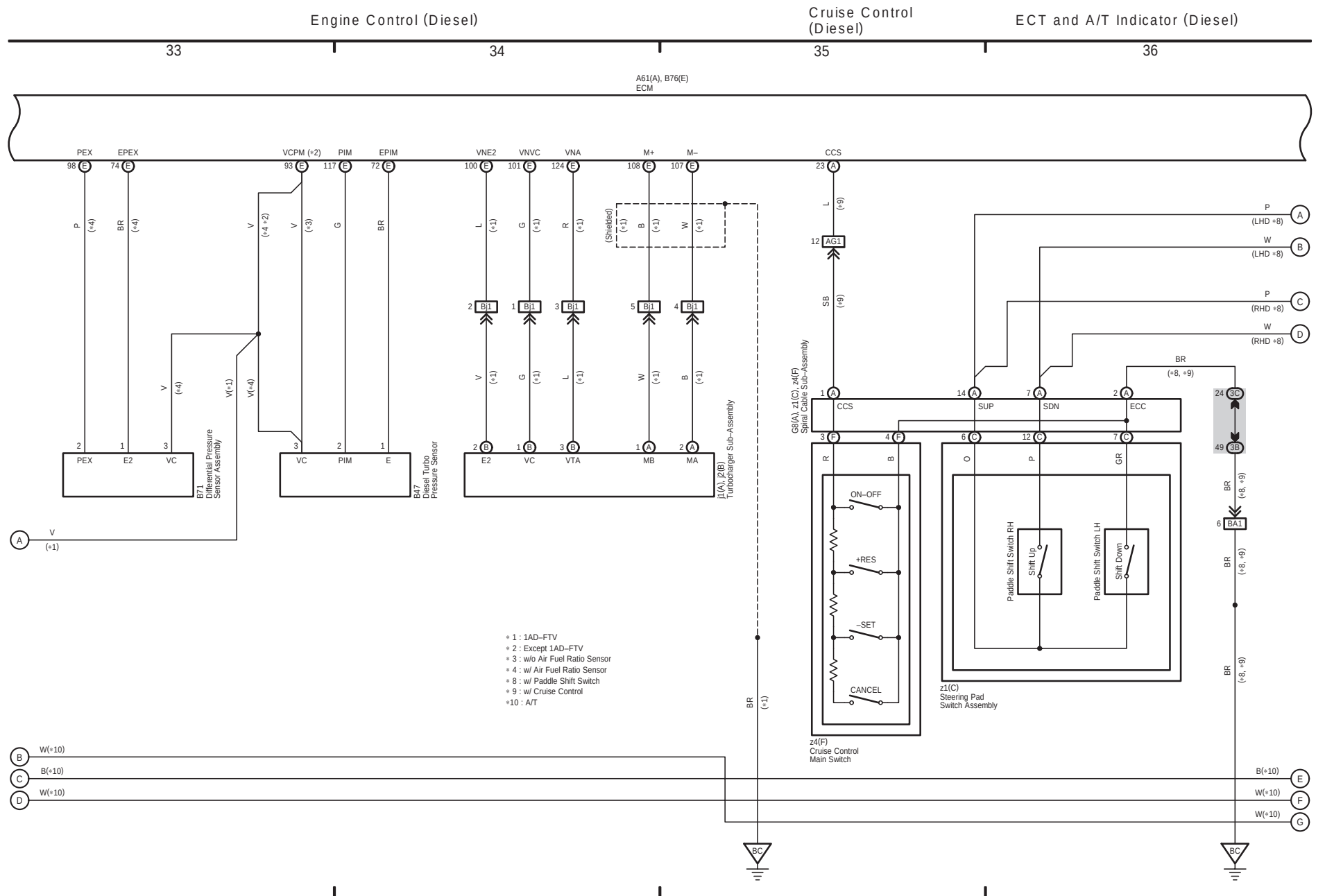


Engine Control (Diesel)

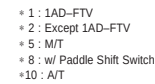
* 1 : 1AD-FTV
* 2 : Except 1AD-FTV
*10 : A/T

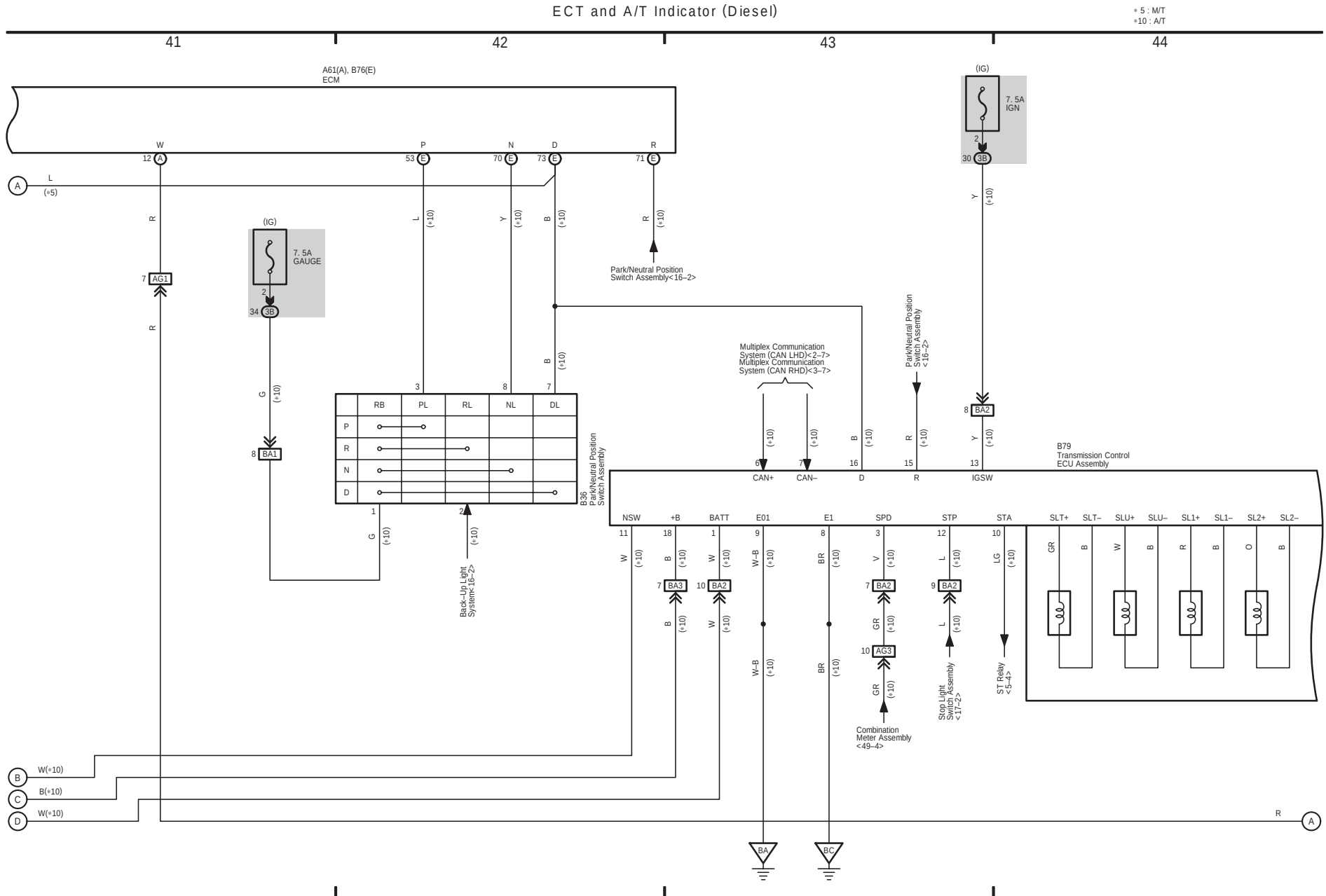


TOYOTA RAV4 (EM3090E)



40

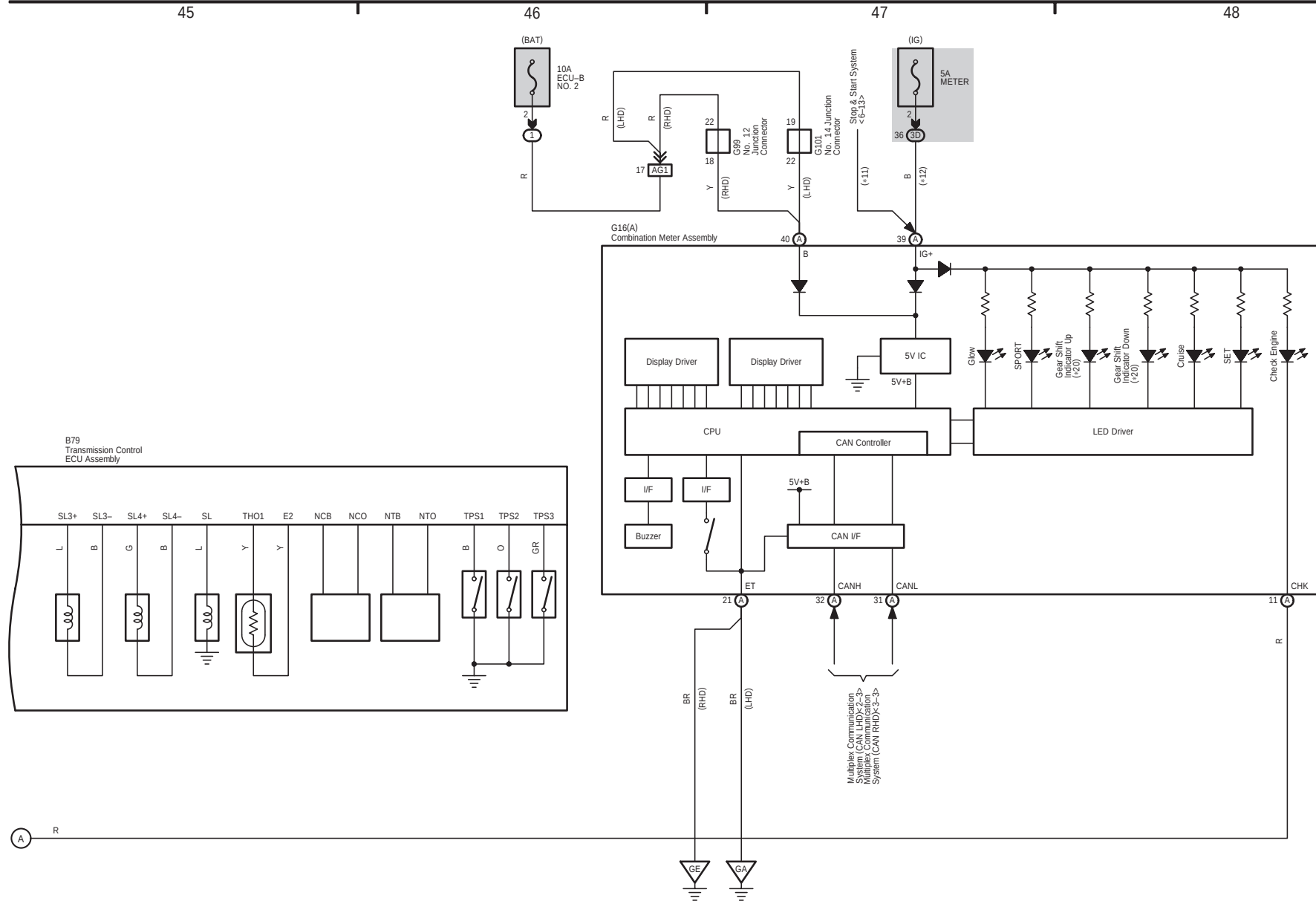




12 TOYOTA RAV4 (Cont' d)

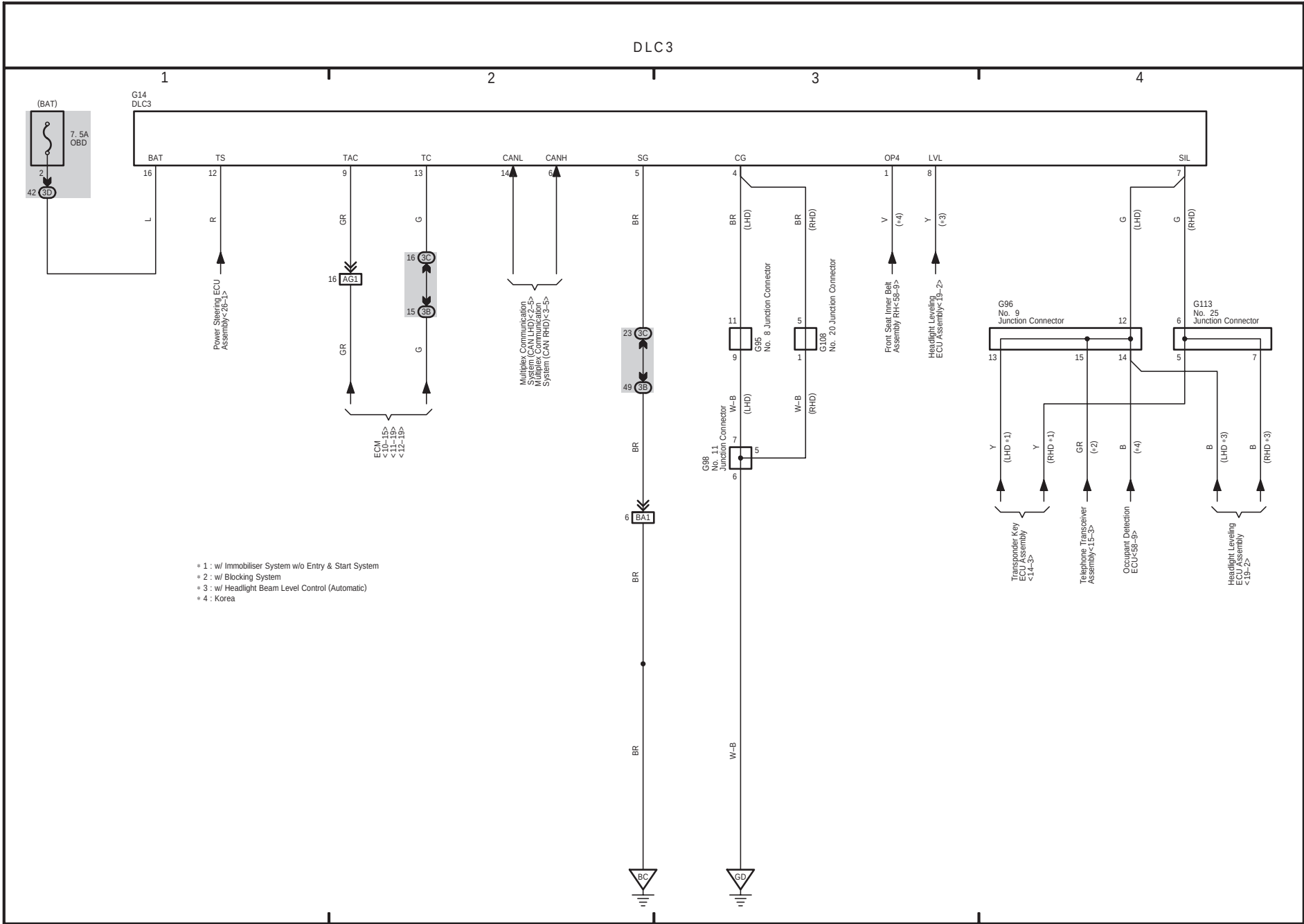
ECT and A/T Indicator (Diesel)

*11 : w/ Stop & Start System
 *12 : w/o Stop & Start System
 *20 : w/ Gear Shift Indicator

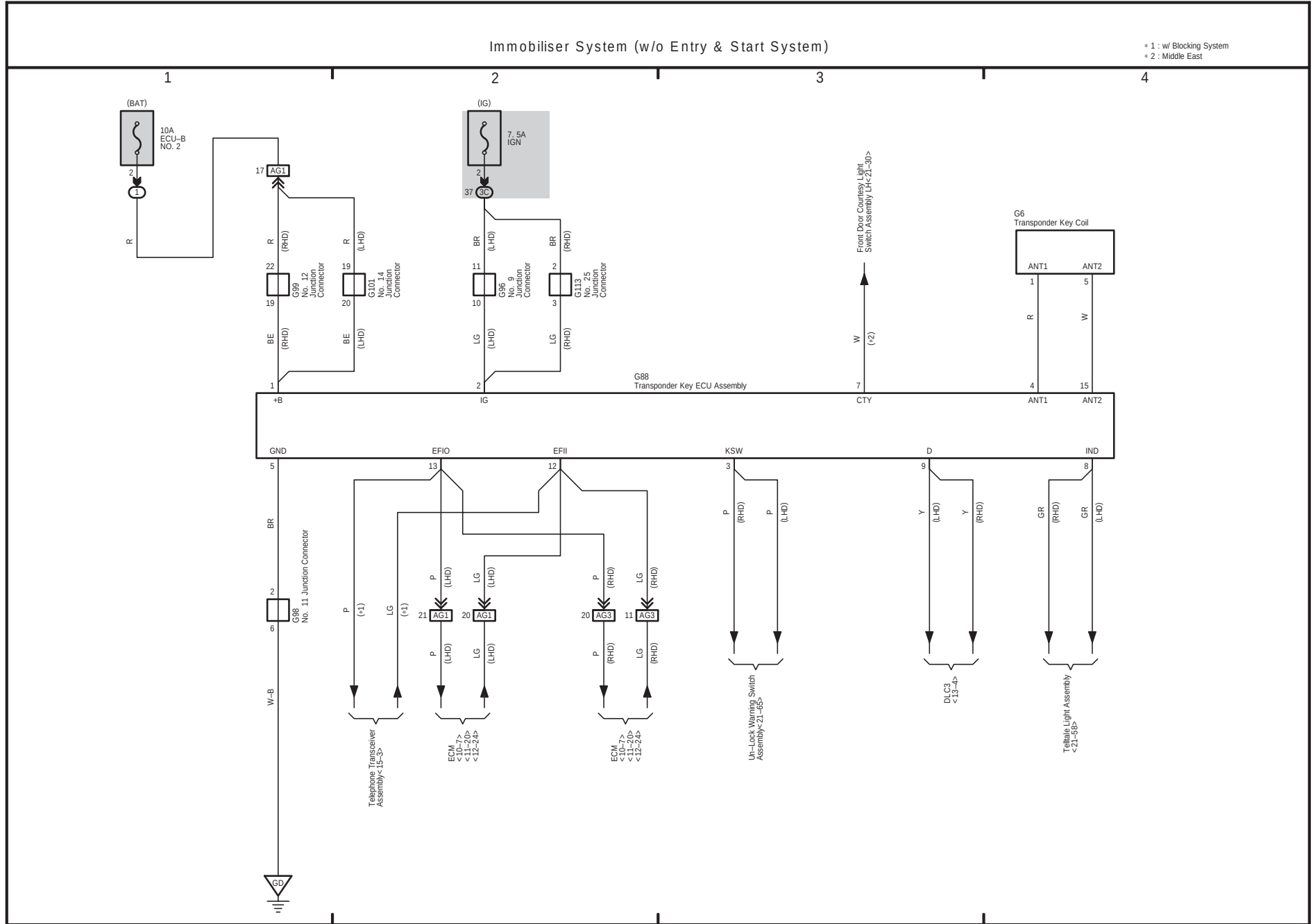


M OVERALL ELECTRICAL WIRING DIAGRAM

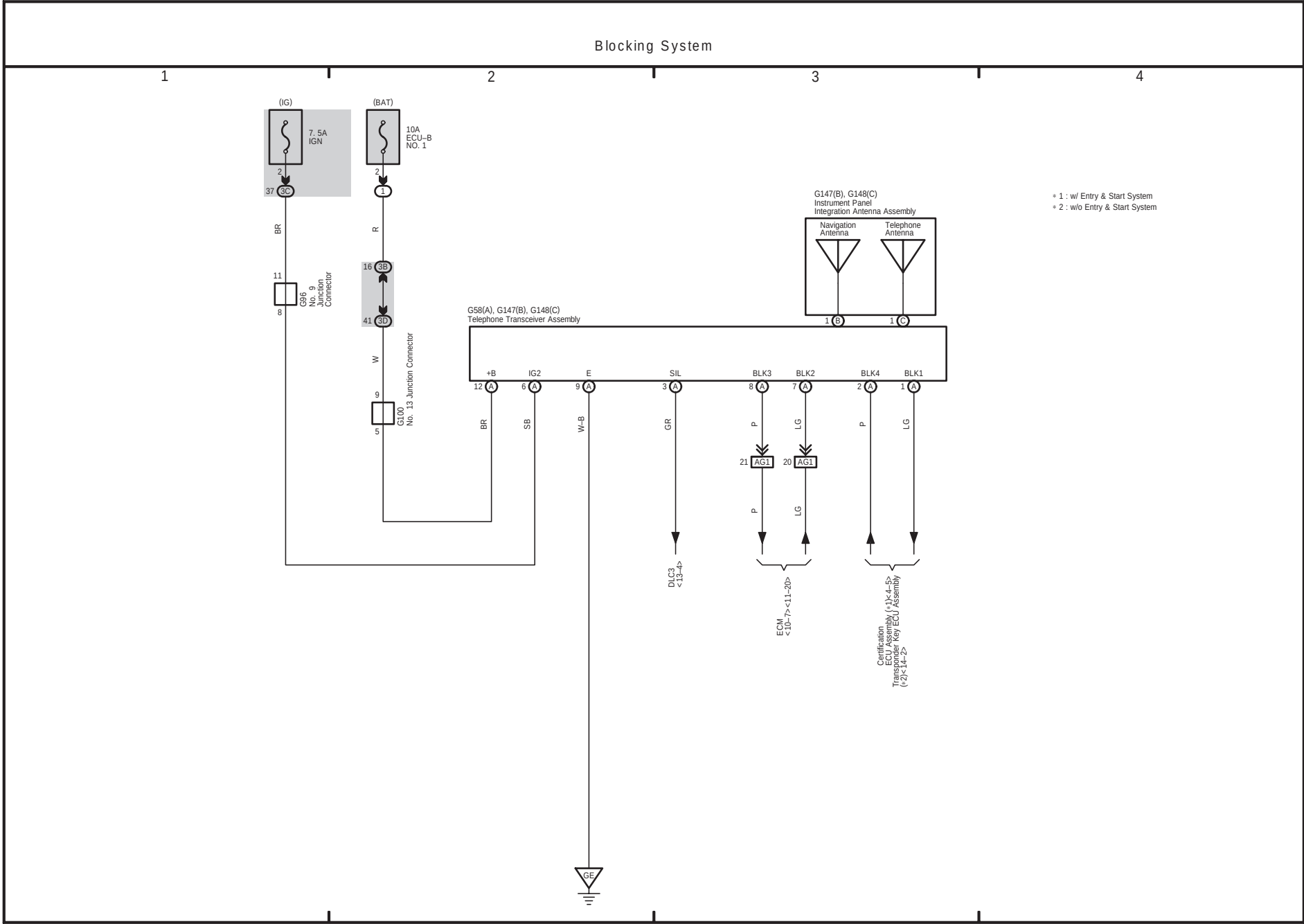
13 TOYOTA RAV4



14 TOYOTA RAV4

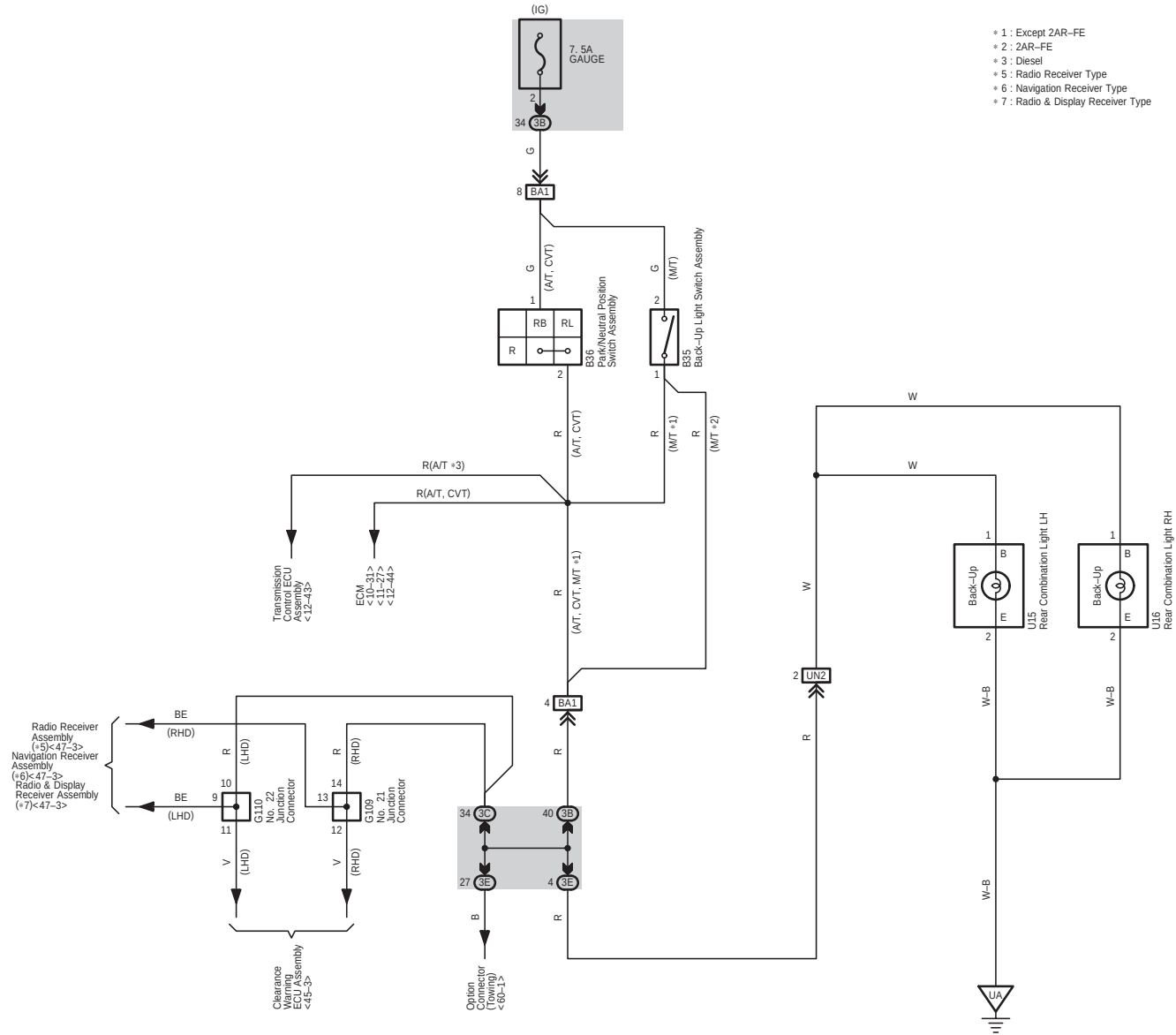


15 TOYOTA RAV4



16 TOYOTA RAV4

Back-Up Light

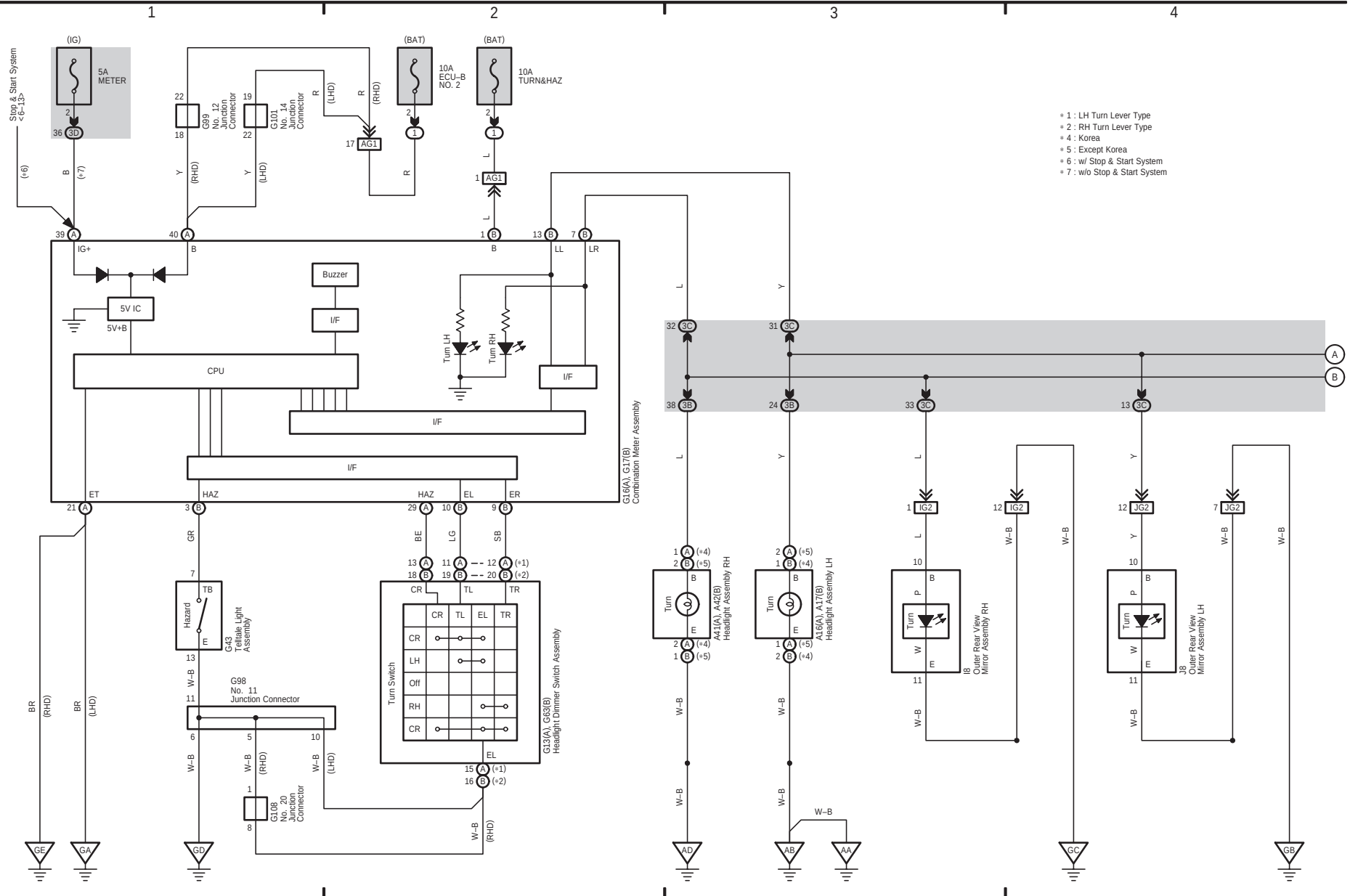


OVERALL ELECTRICAL WIRING DIAGRAM

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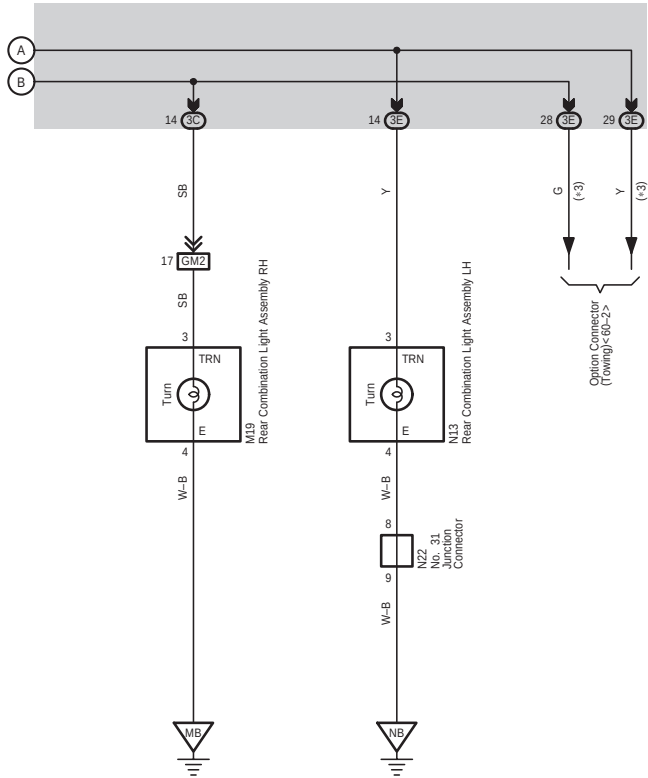


Turn Signal and Hazard Warning Light



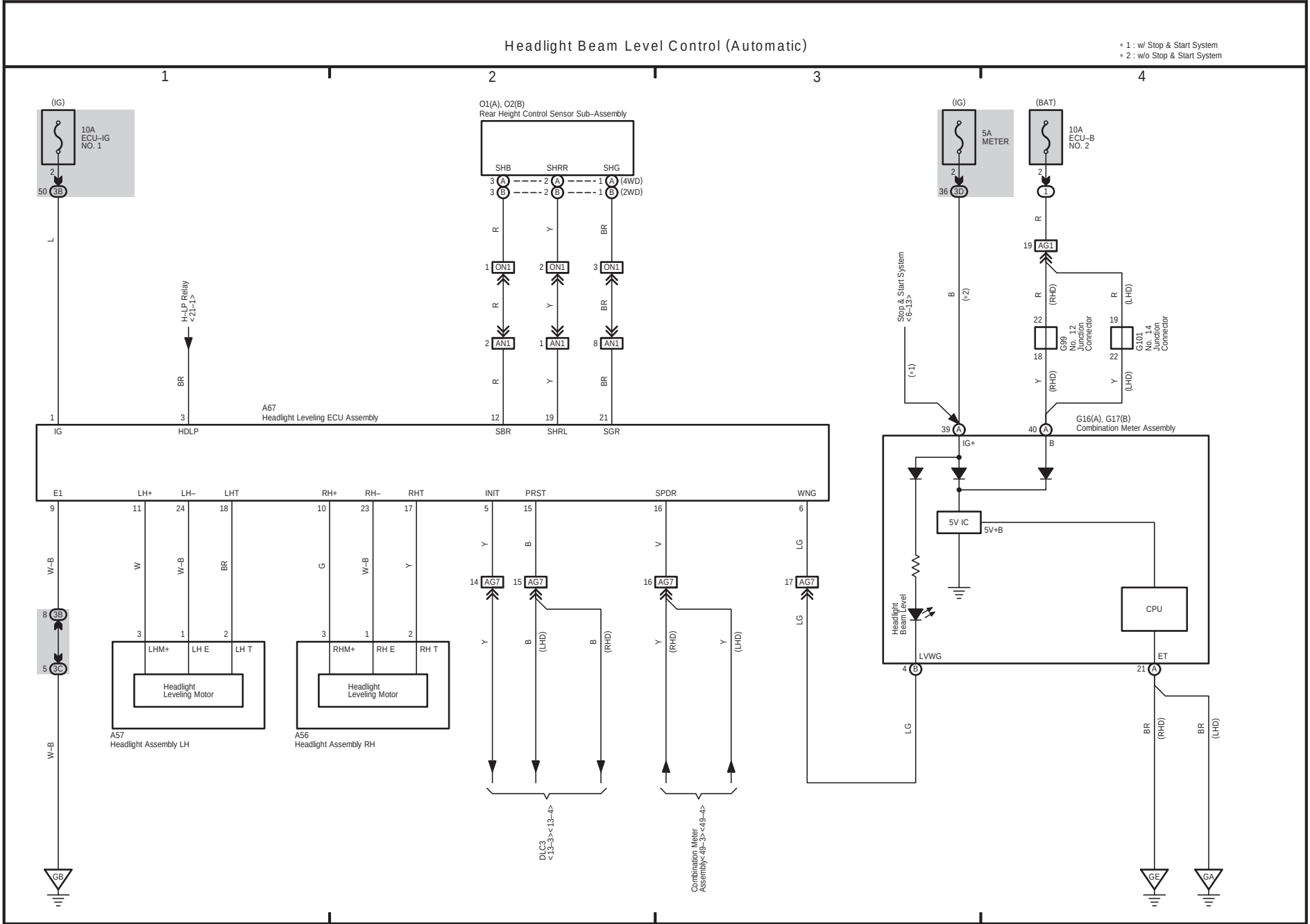
Turn Signal and Hazard Warning Light

* 3 : w/ Option Connector (Towing)

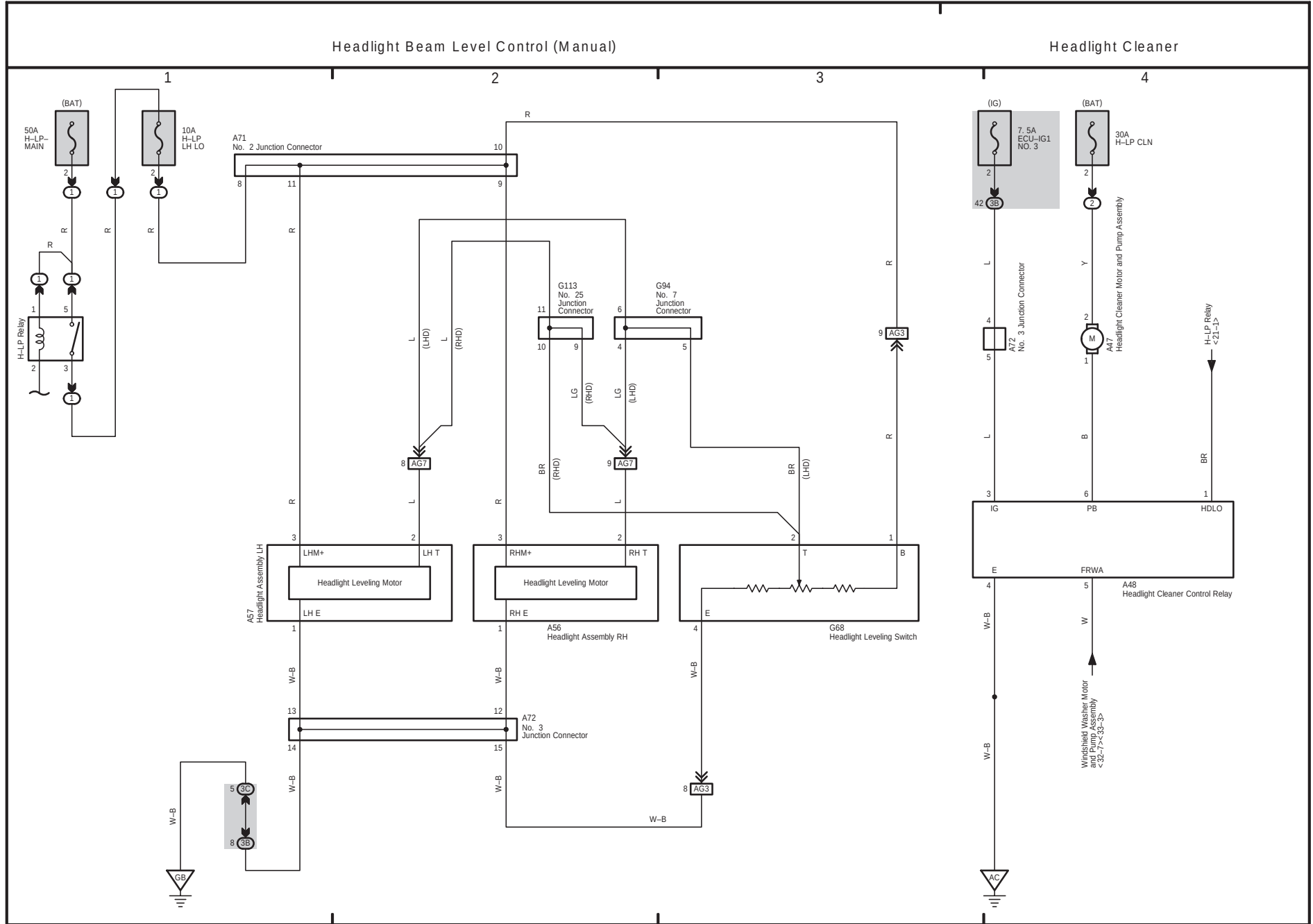


19 TOYOTA RAV4

TOYOTA RAV4 (EM3090E)

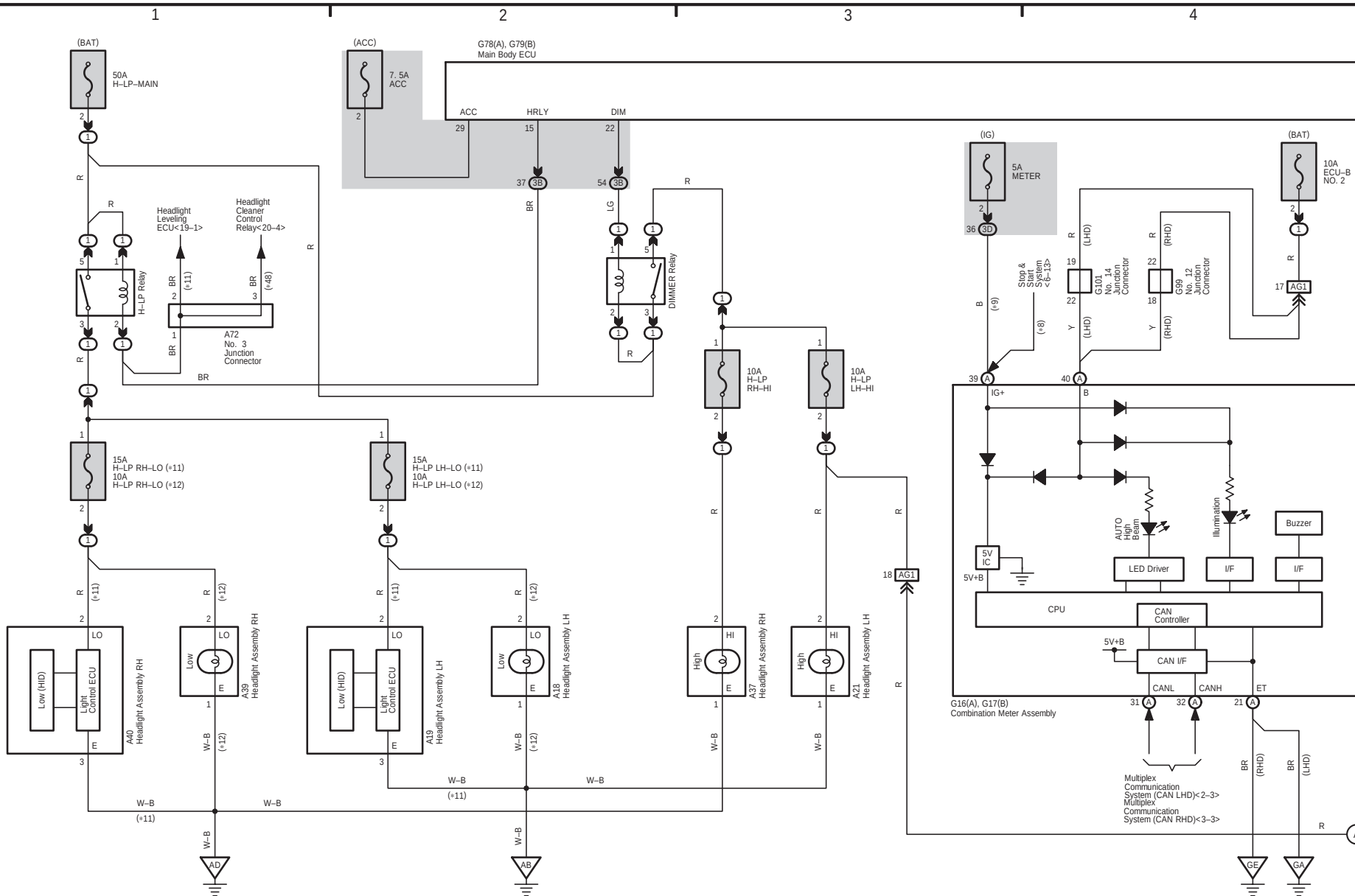


20 TOYOTA RAV4

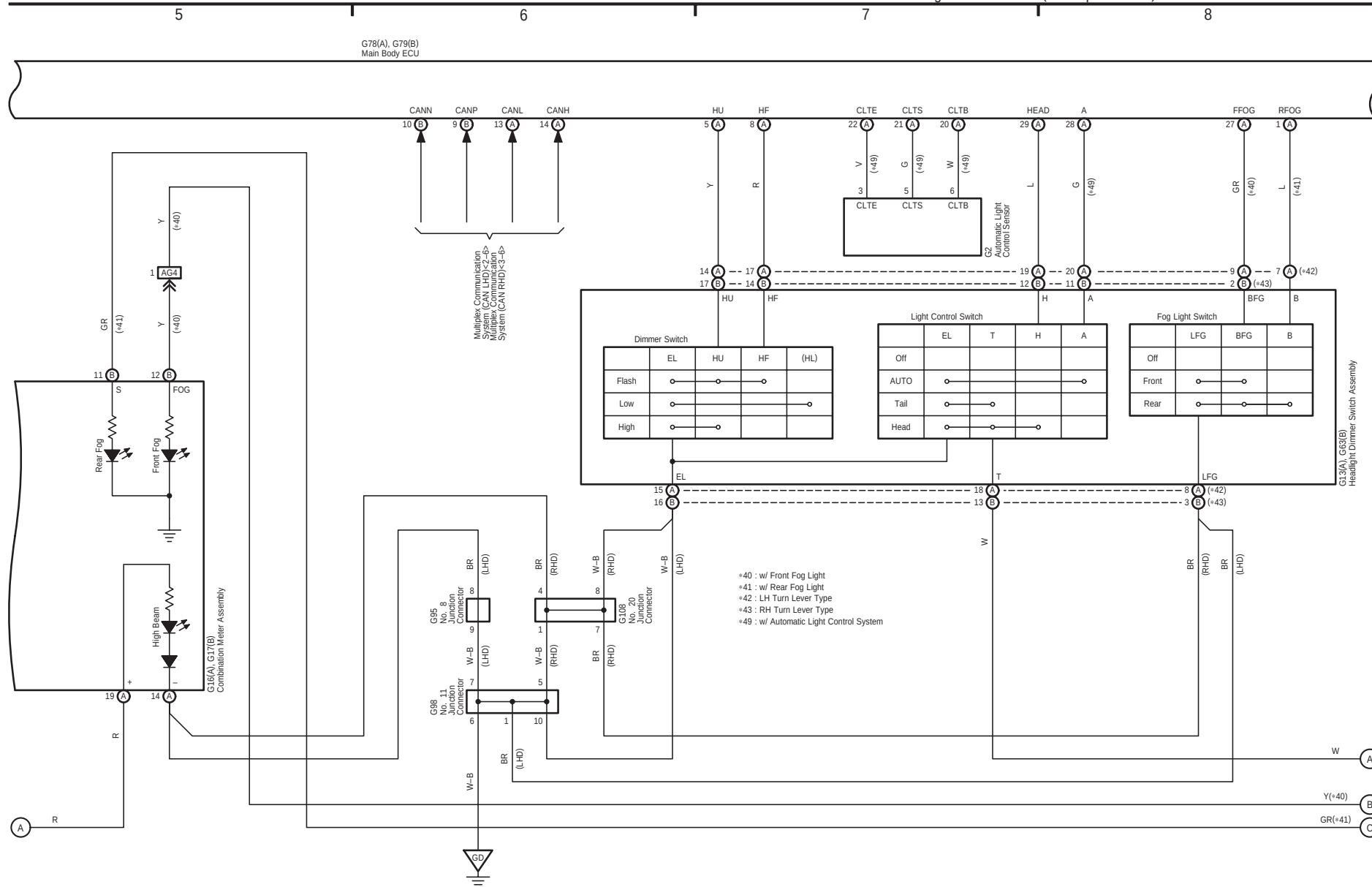


Headlight (Except Korea)

- * 8 : w/ Stop & Start System
- * 9 : w/o Stop & Start System
- * 11 : HID Type
- * 12 : Halogen Type
- * 48 : w/ Headlight Cleaner System



Headlight (Except Korea)

Automatic Light Control (Except Korea),
Light Auto Turn Off System (Except Korea) and
Light Reminder (Except Korea)



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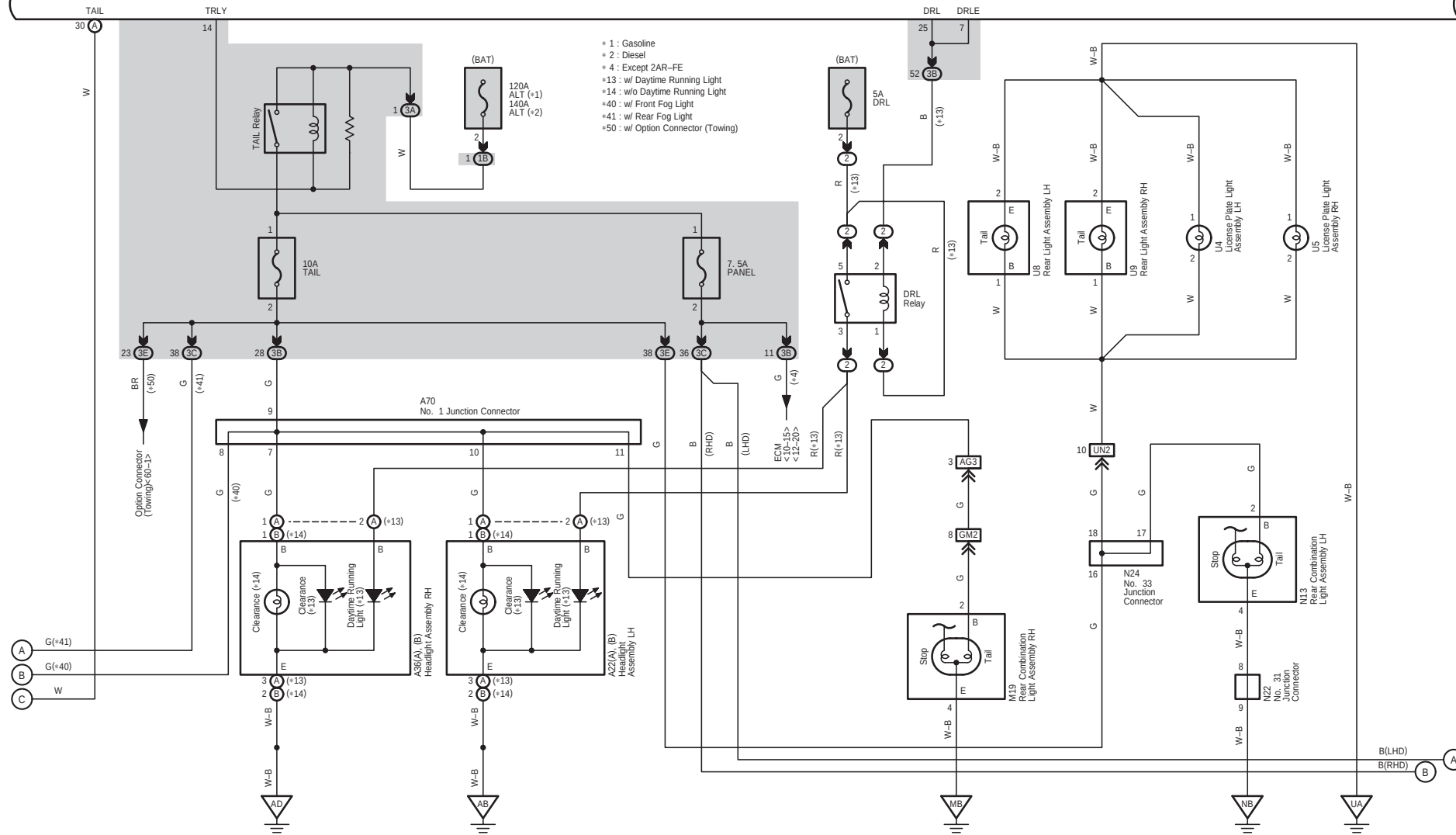
TAIL

30 (A)

TRLY

DRL

DRLE



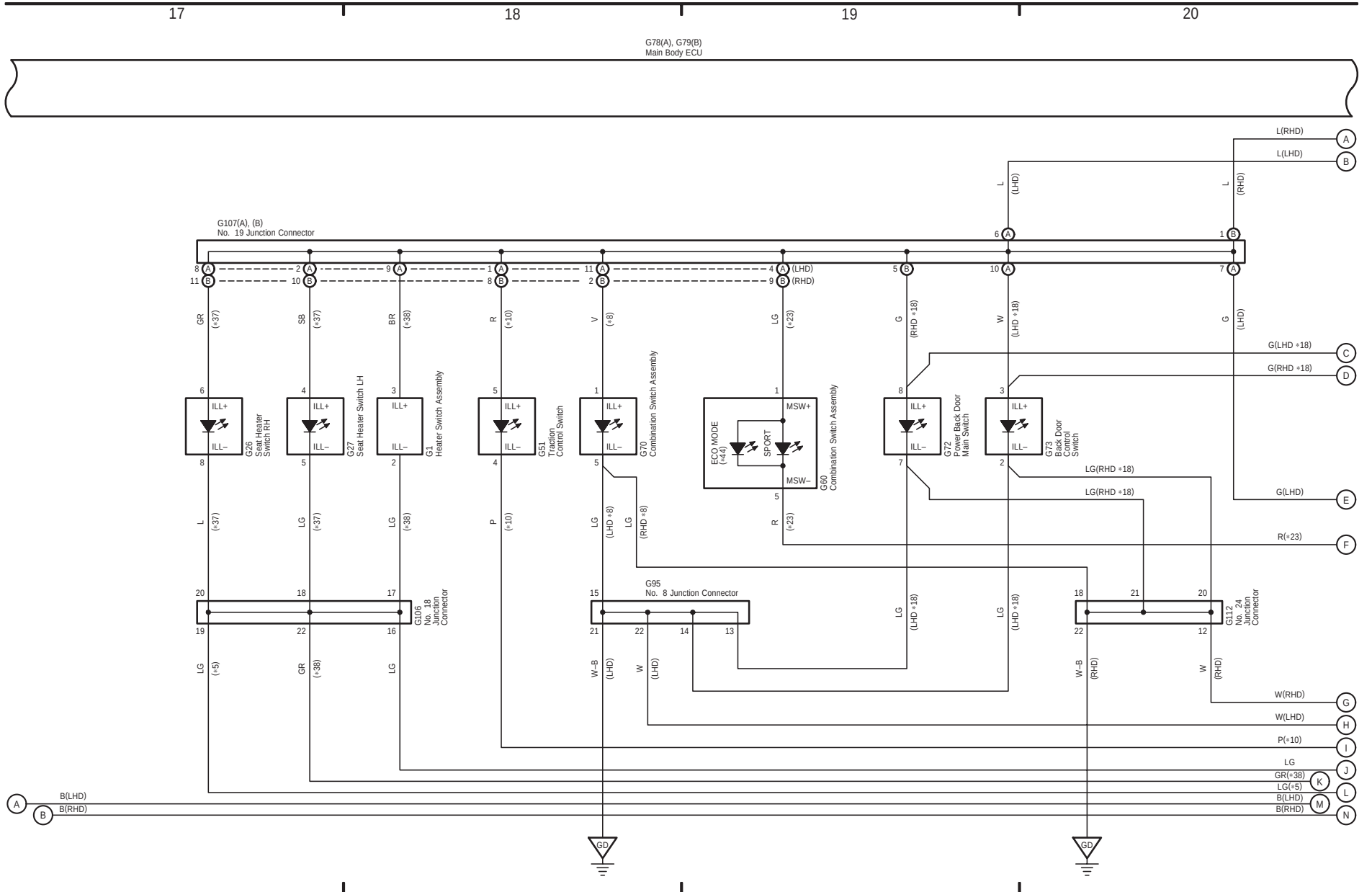
(Cont. next page)

21 TOYOTA RAV4 (Cont' d)

Illumination (Except Korea)

* 5 : A/T, CVT
* 8 : w/ Stop & Start System
* 10 : w/ VSC
* 18 : w/ Power Back Door

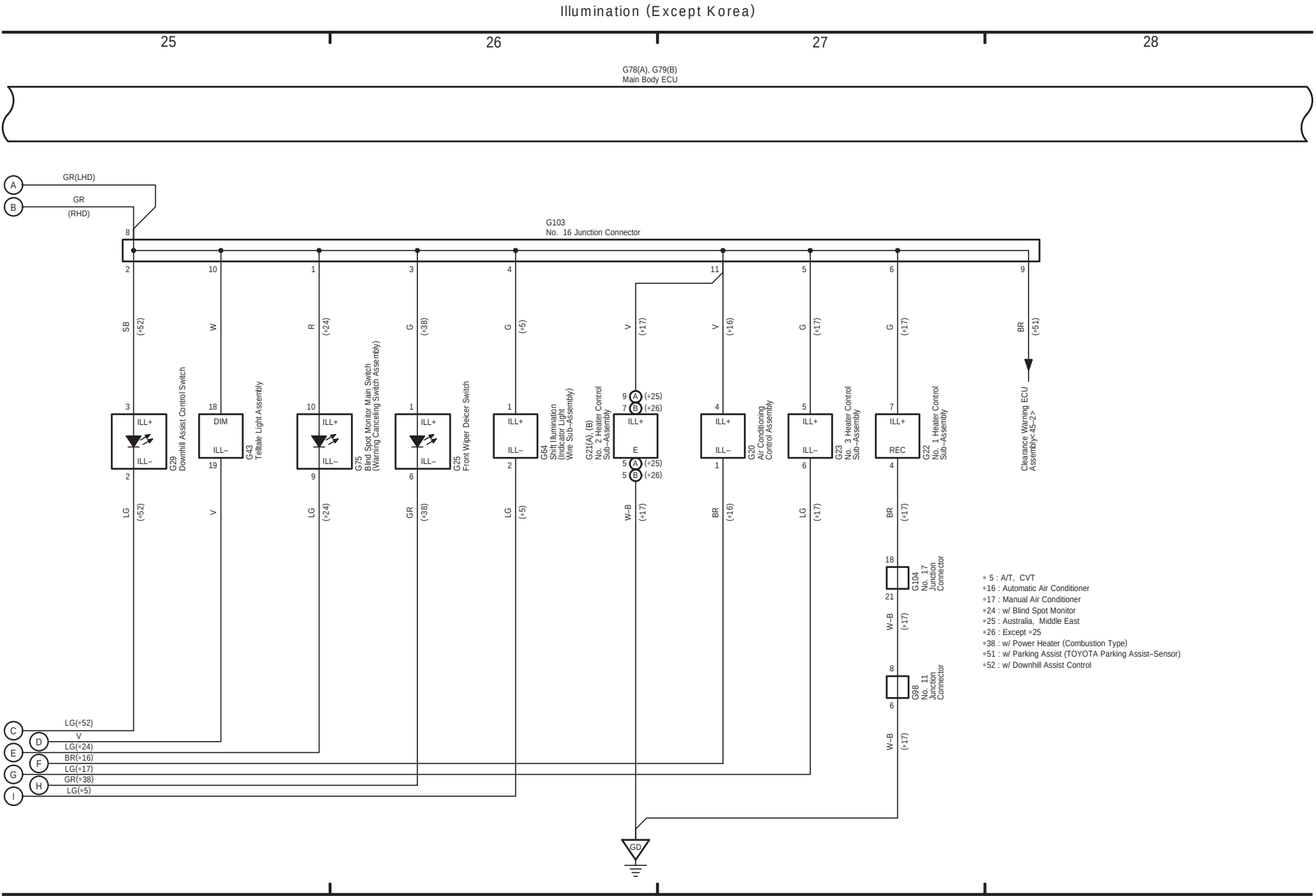
* 23 : w/ Sport Switch
* 37 : w/ Seat Heater
* 38 : w/ Power Heater (Combustion Type)
* 44 : w/ ECO MODE Switch



TOYOTA RAV4 (EM3090E)

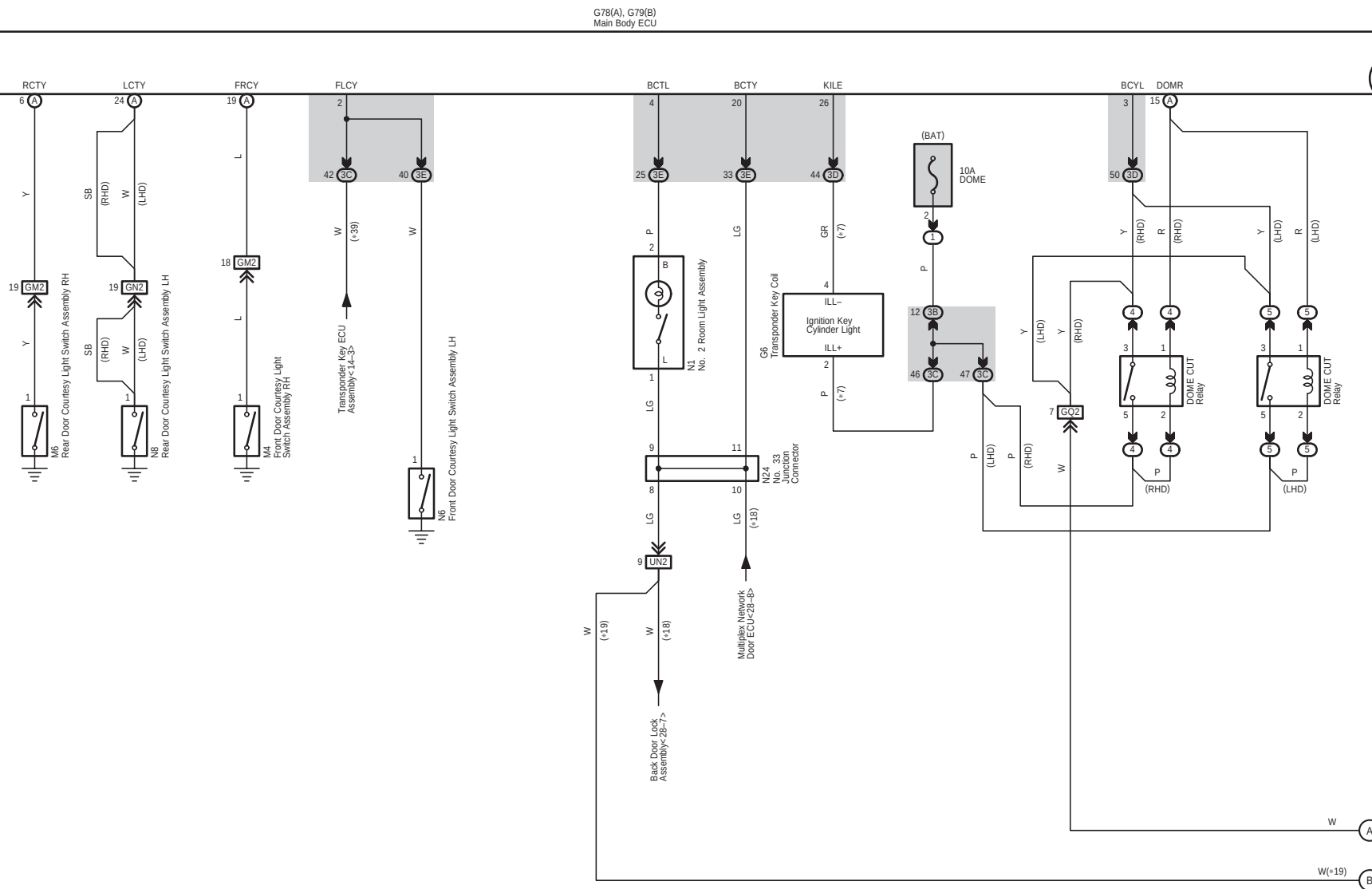
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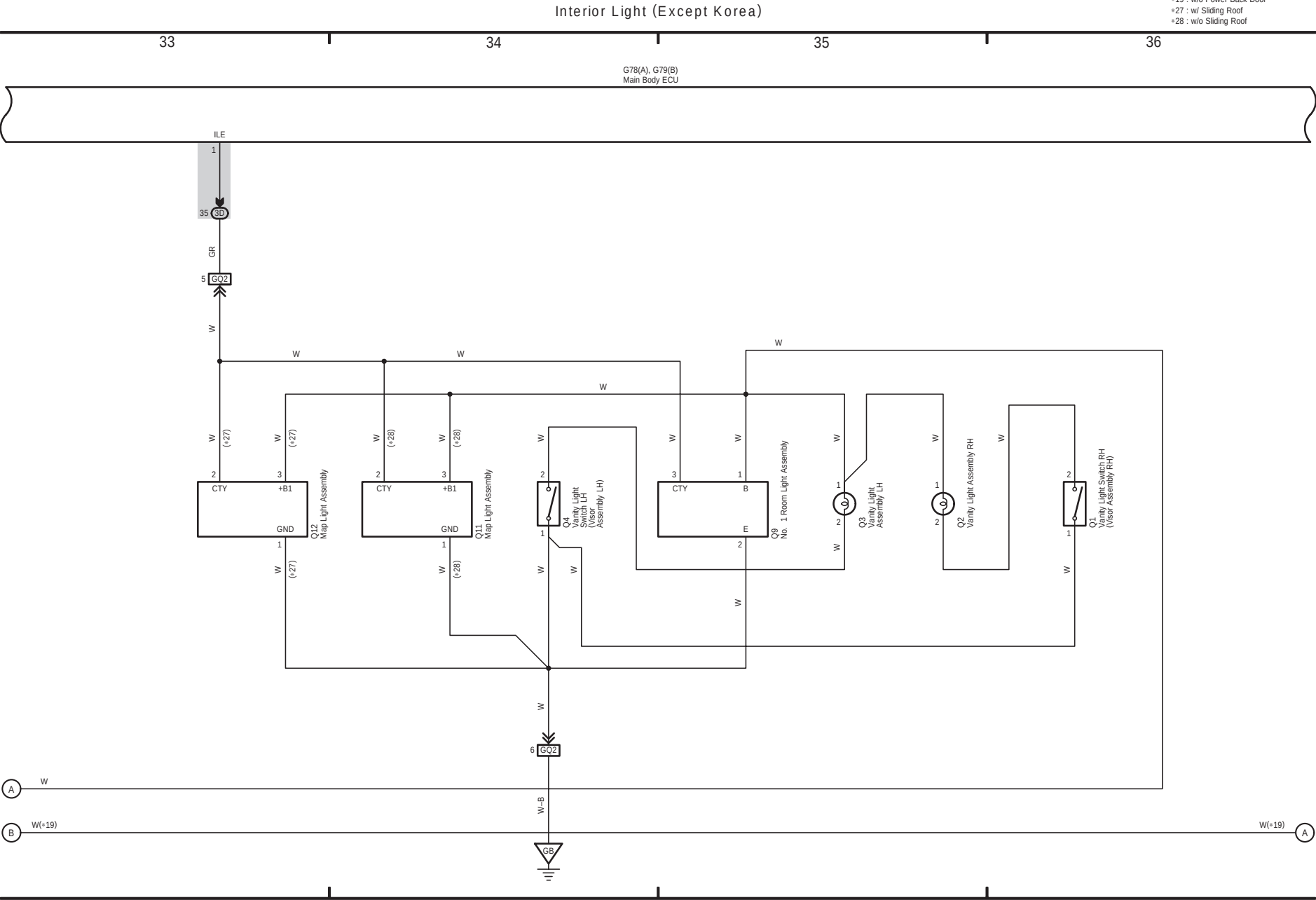




Interior Light (Except Korea)

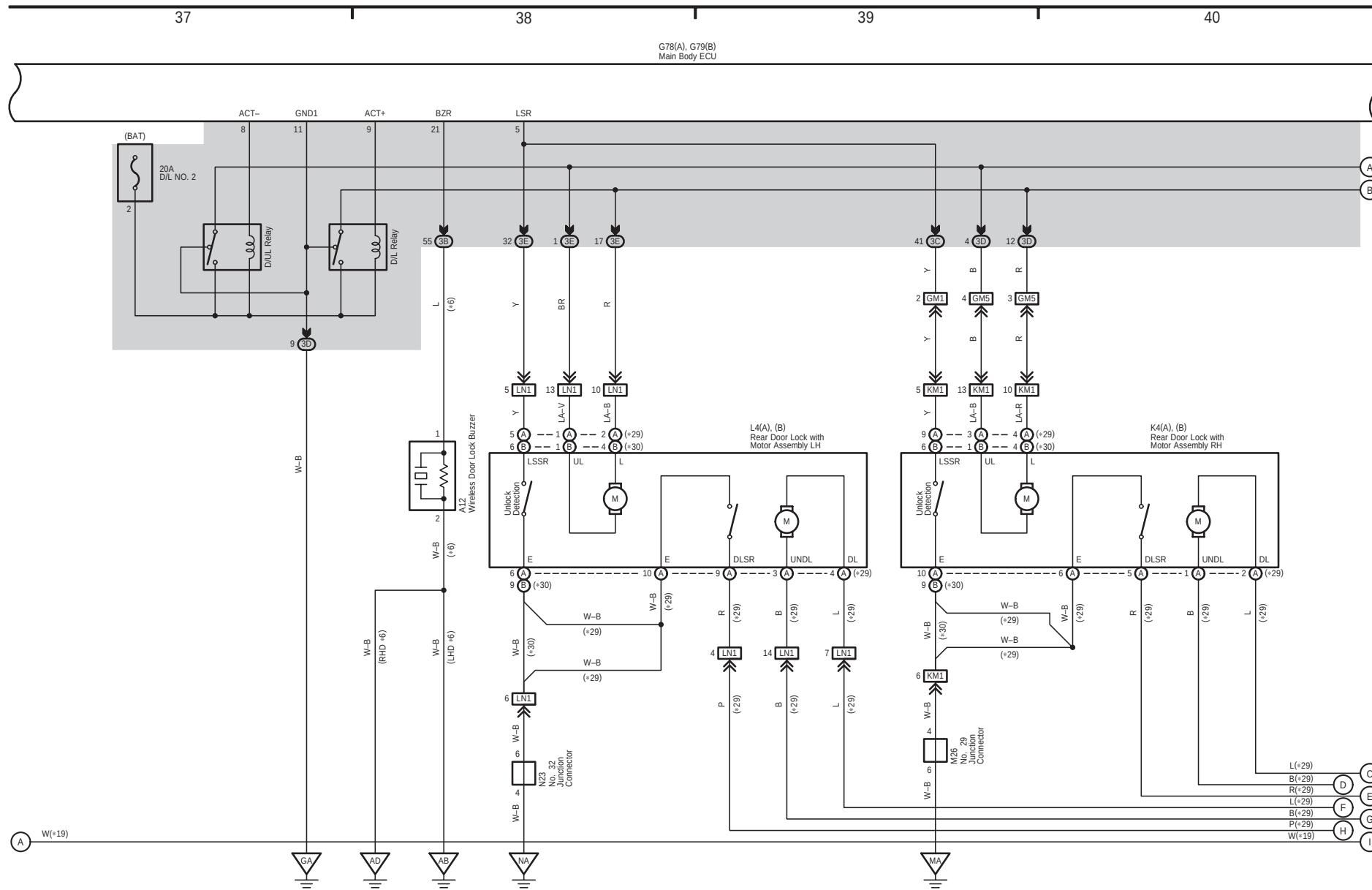
* 7 : w/o Entry & Start System
 *18 : w/ Power Back Door
 *19 : w/o Power Back Door
 *39 : Middle East



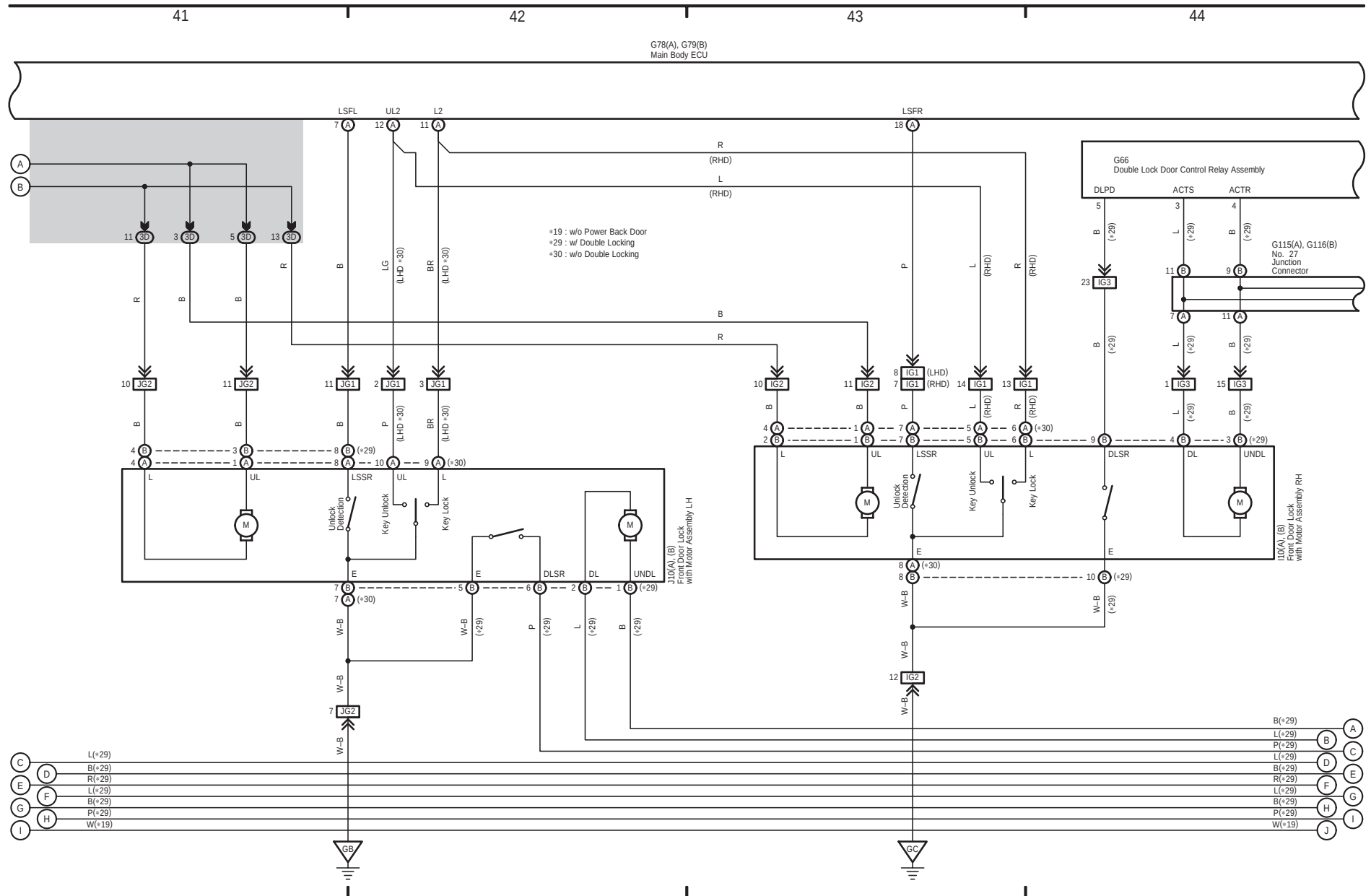


Door Lock Control (Except Korea)

* 6 : w/ Entry & Start System
 * 19 : w/o Power Back Door
 * 29 : w/ Double Locking
 * 30 : w/o Double Locking

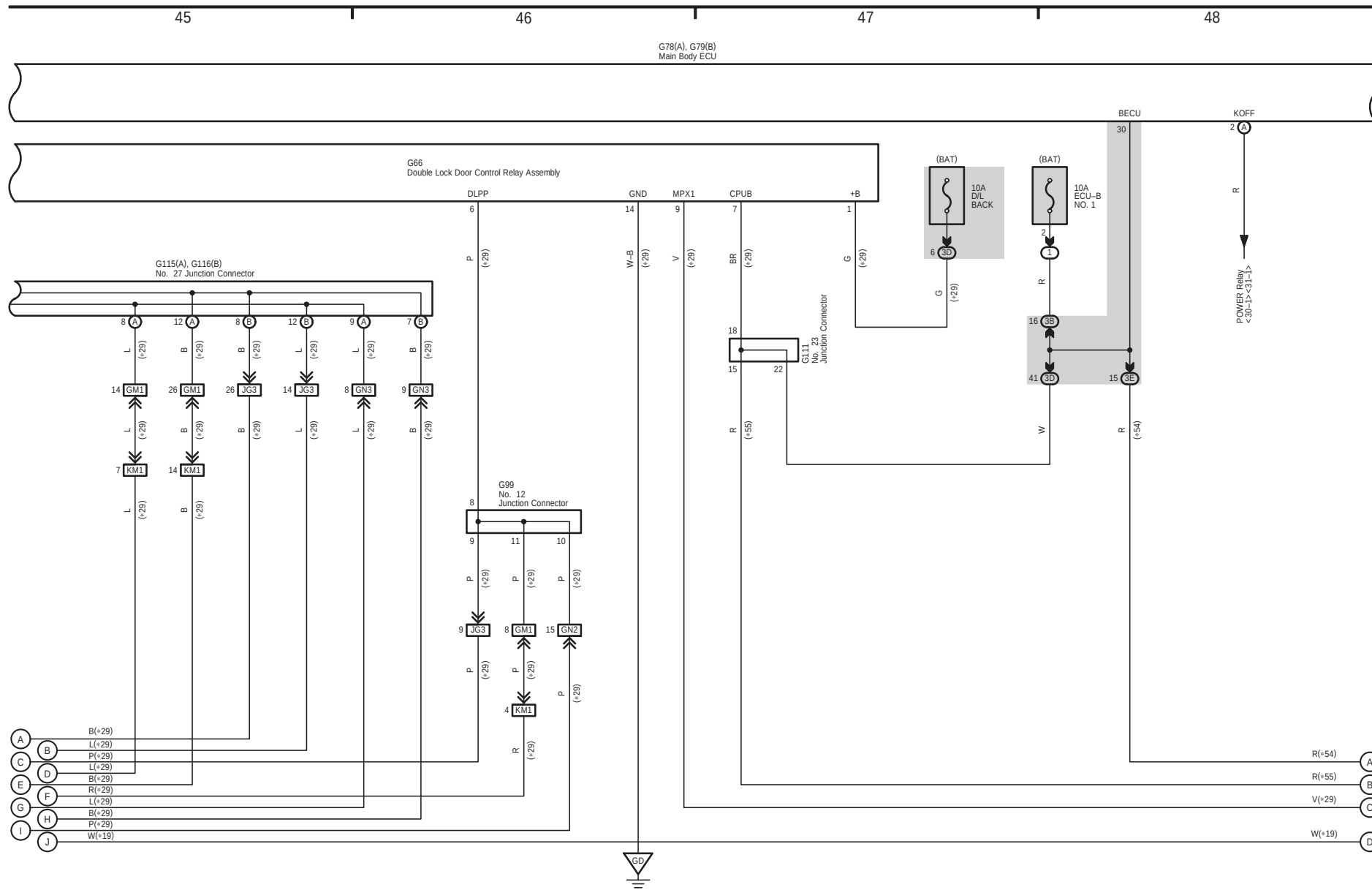


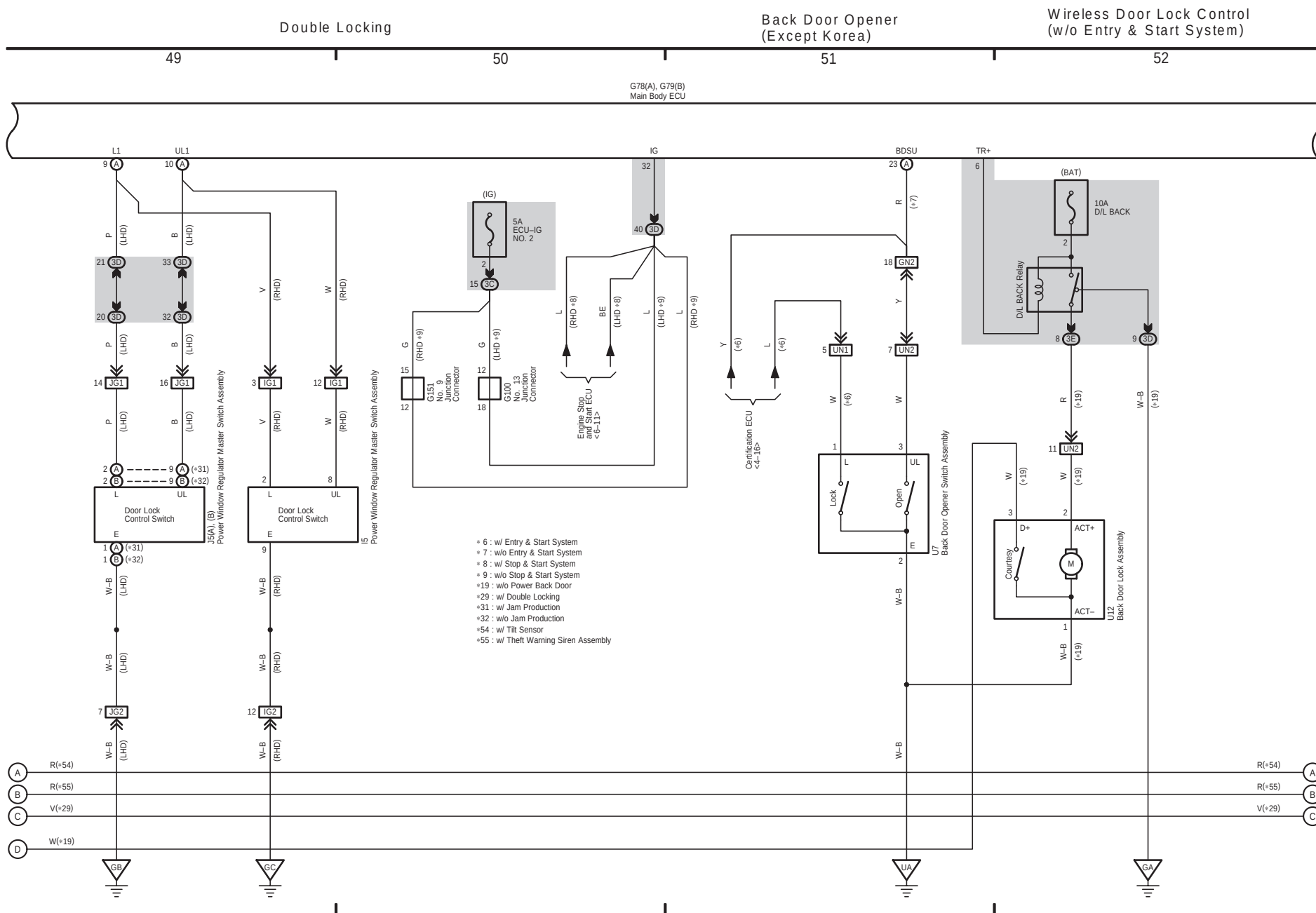
Double Locking



Double Locking

*19 : w/o Power Back Door
 *29 : w/ Double Locking
 *54 : w/ Tilt Sensor
 *55 : w/ Theft Warning Siren Assembly

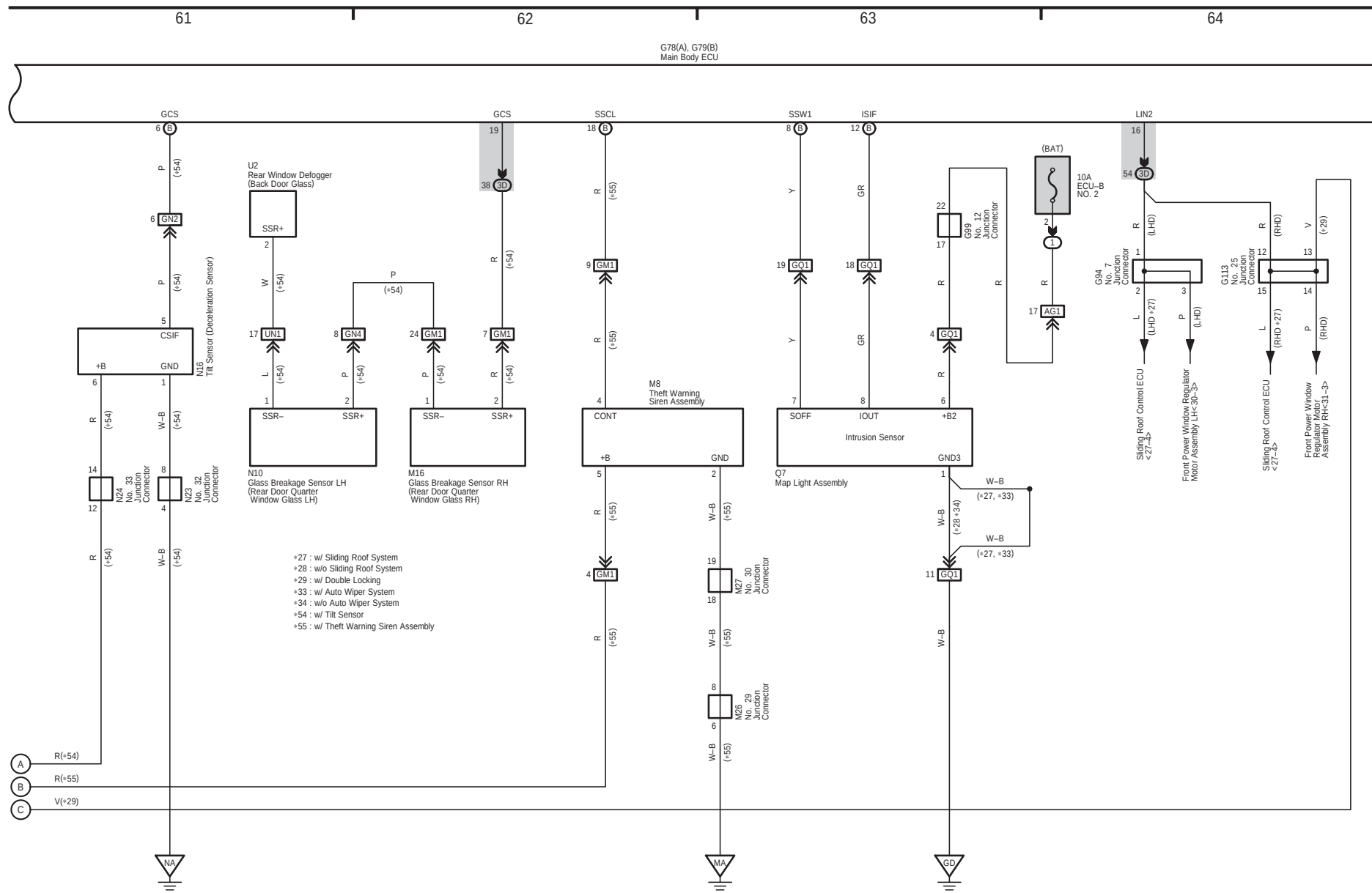




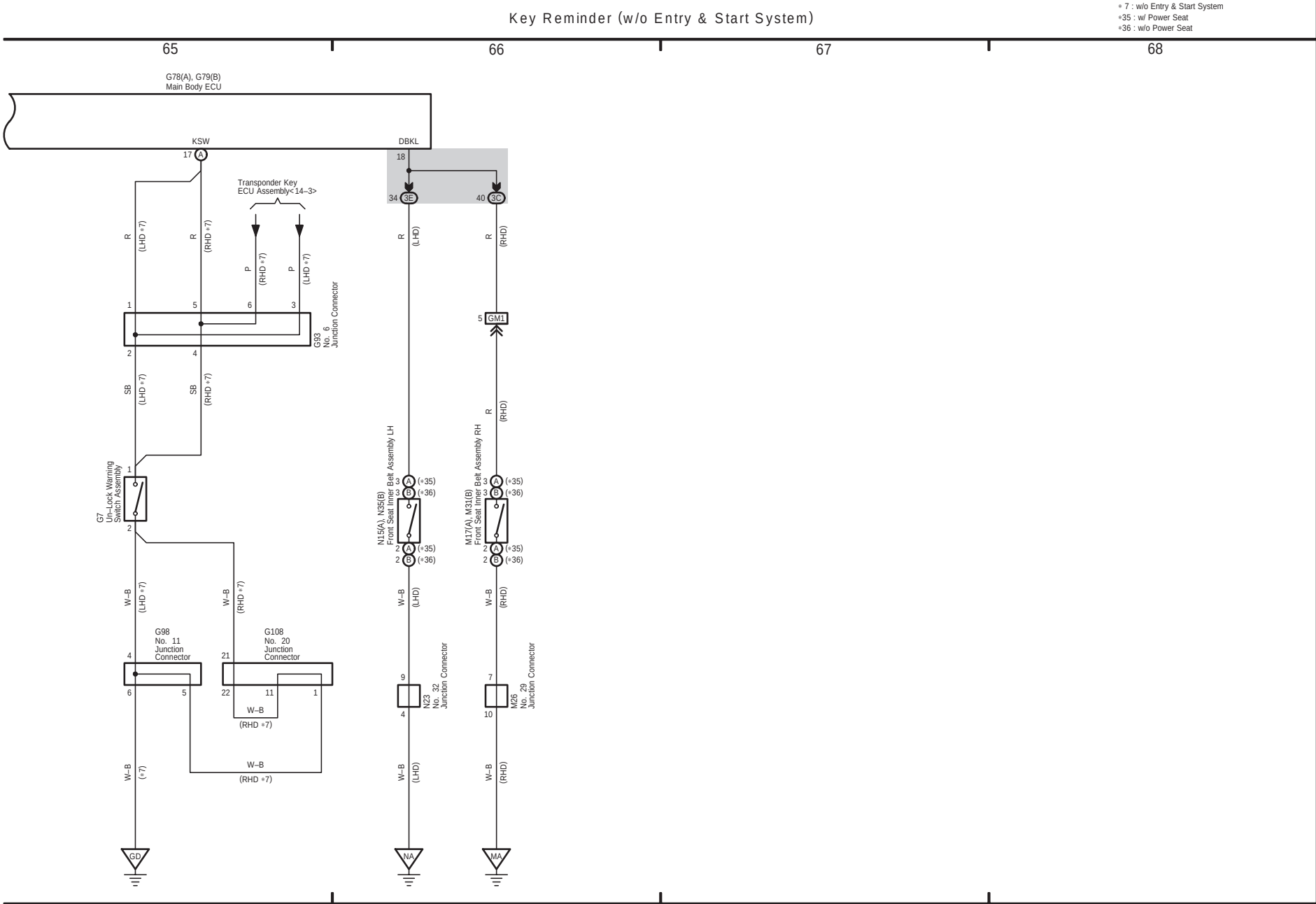
TOYOTA RAV4 (EM3090E)



Theft Deterrent

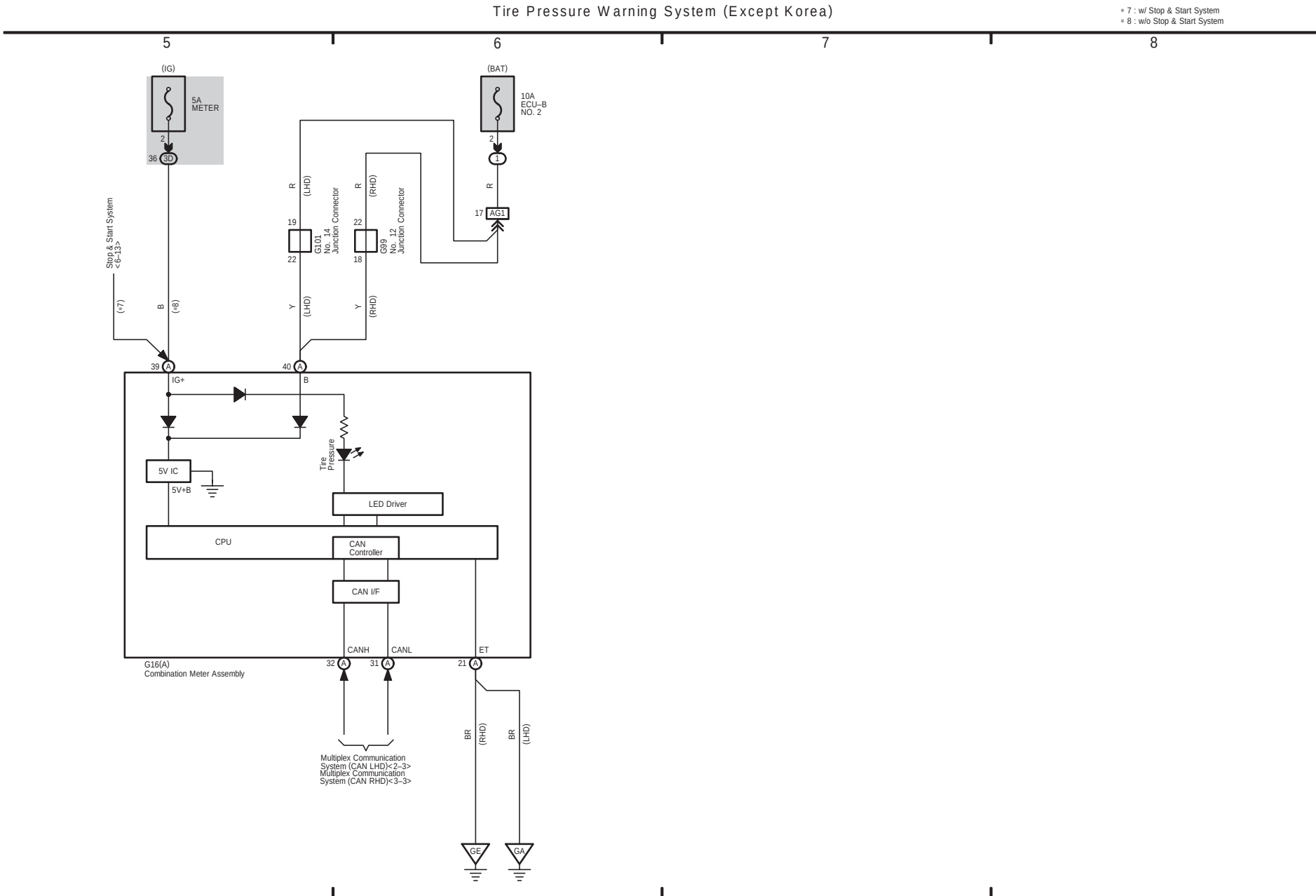


21 TOYOTA RAV4 (Cont' d)

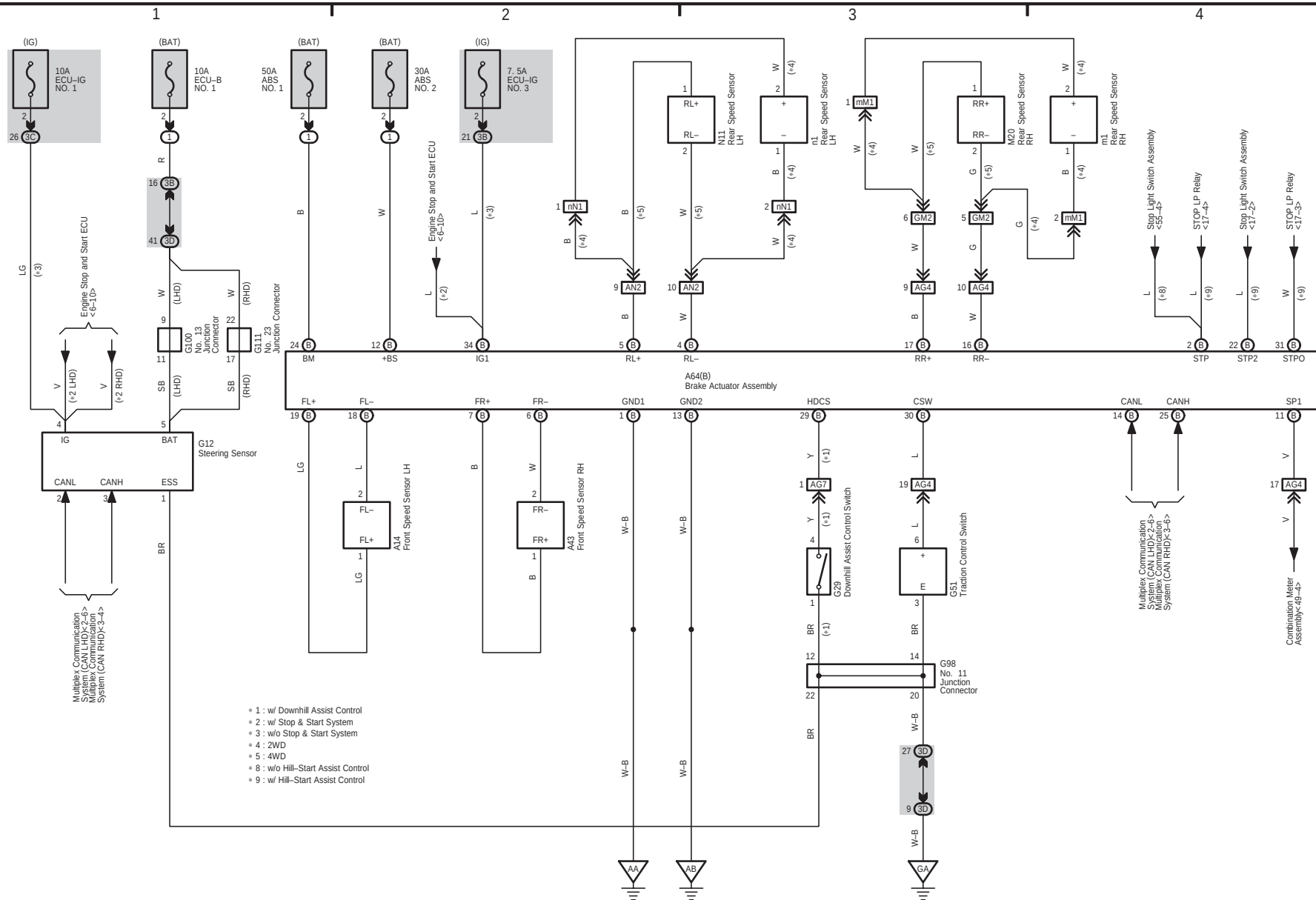


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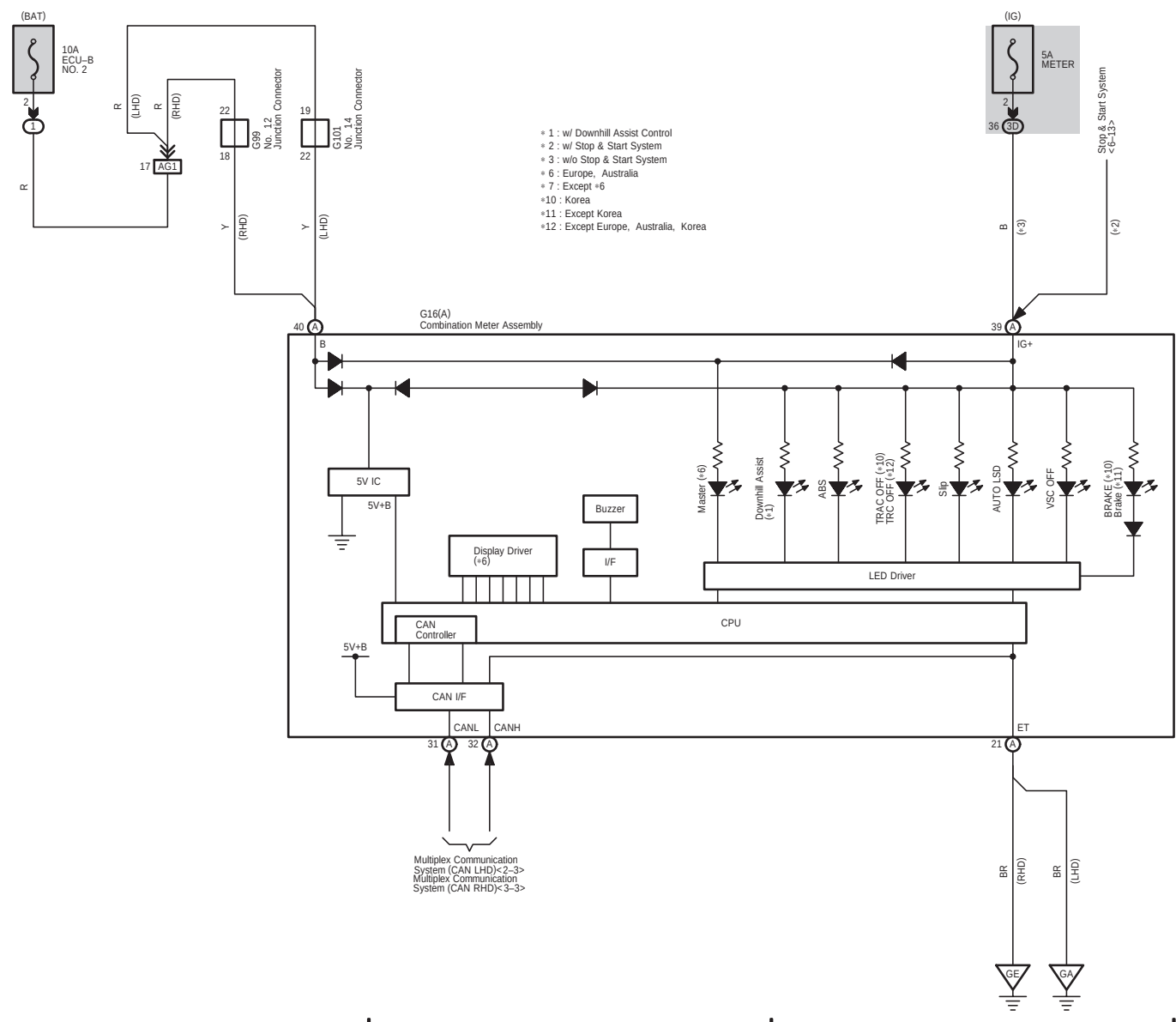


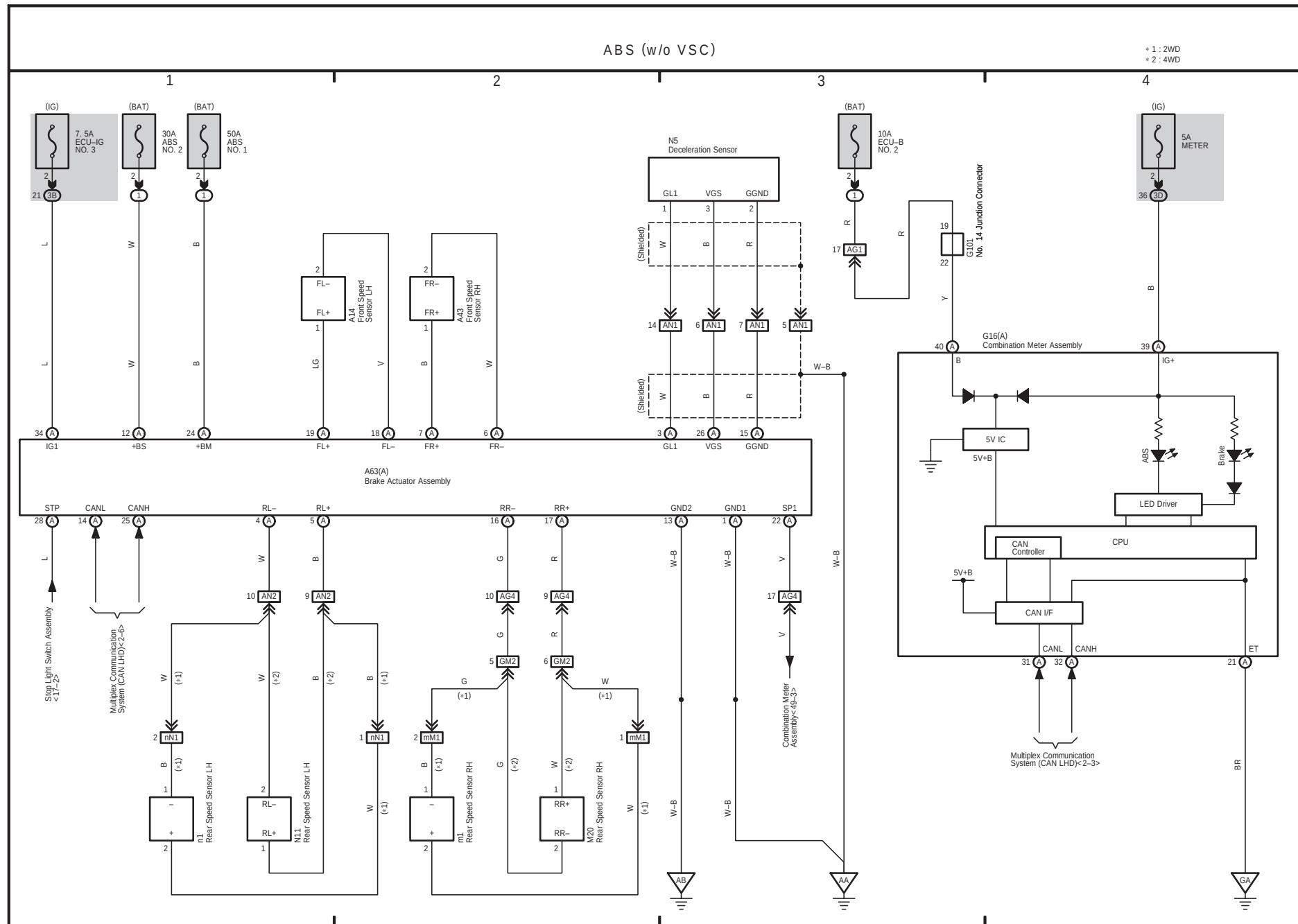


ABS (w/ VSC), Downhill Assist Control, Hill-Start Assist Control, TRC and VSC



ABS (w/ VSC), Downhill Assist Control, Hill-Start Assist Control, TRC and VSC





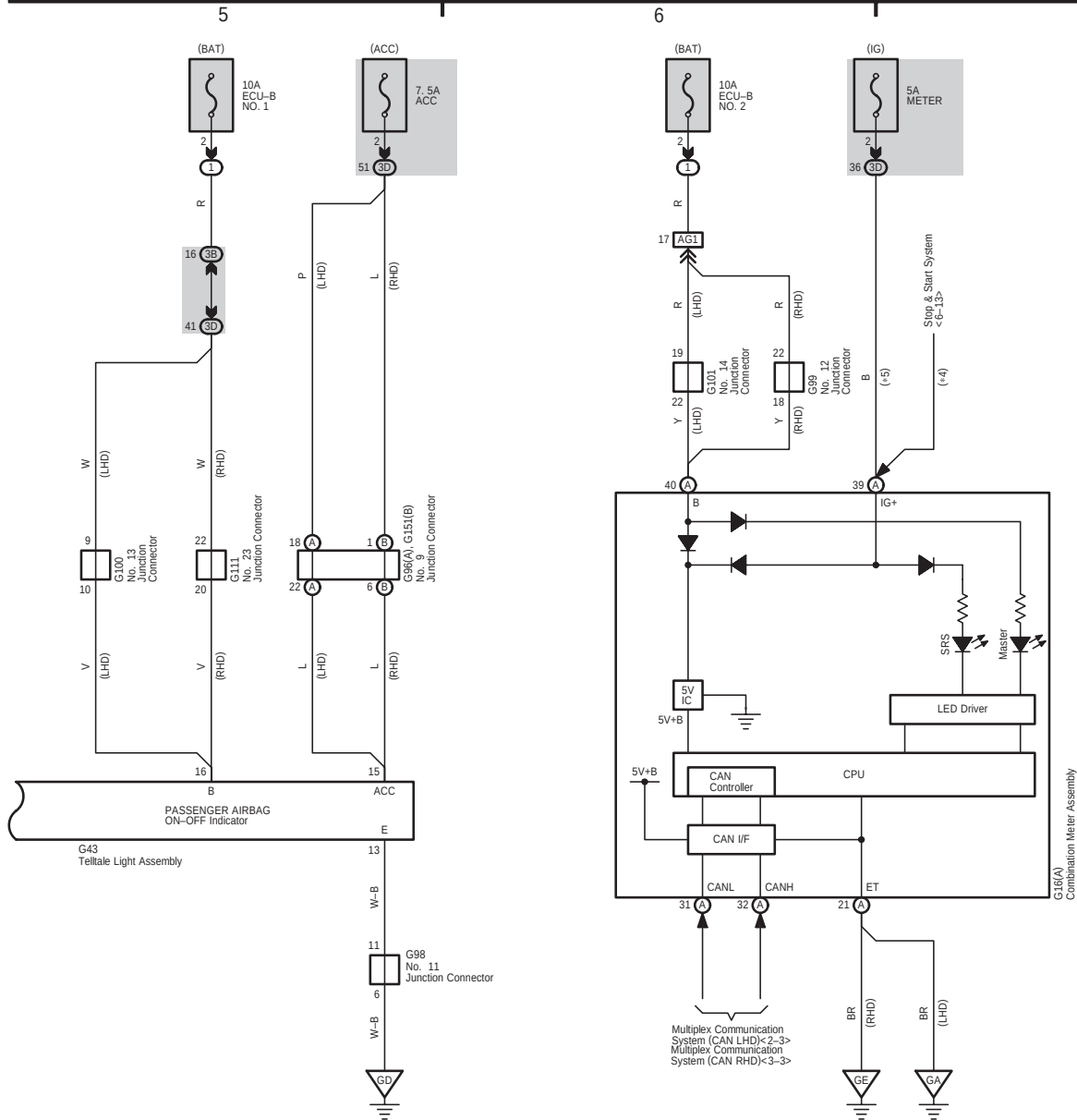
- * 1 : 2WD
- * 2 : 4WD

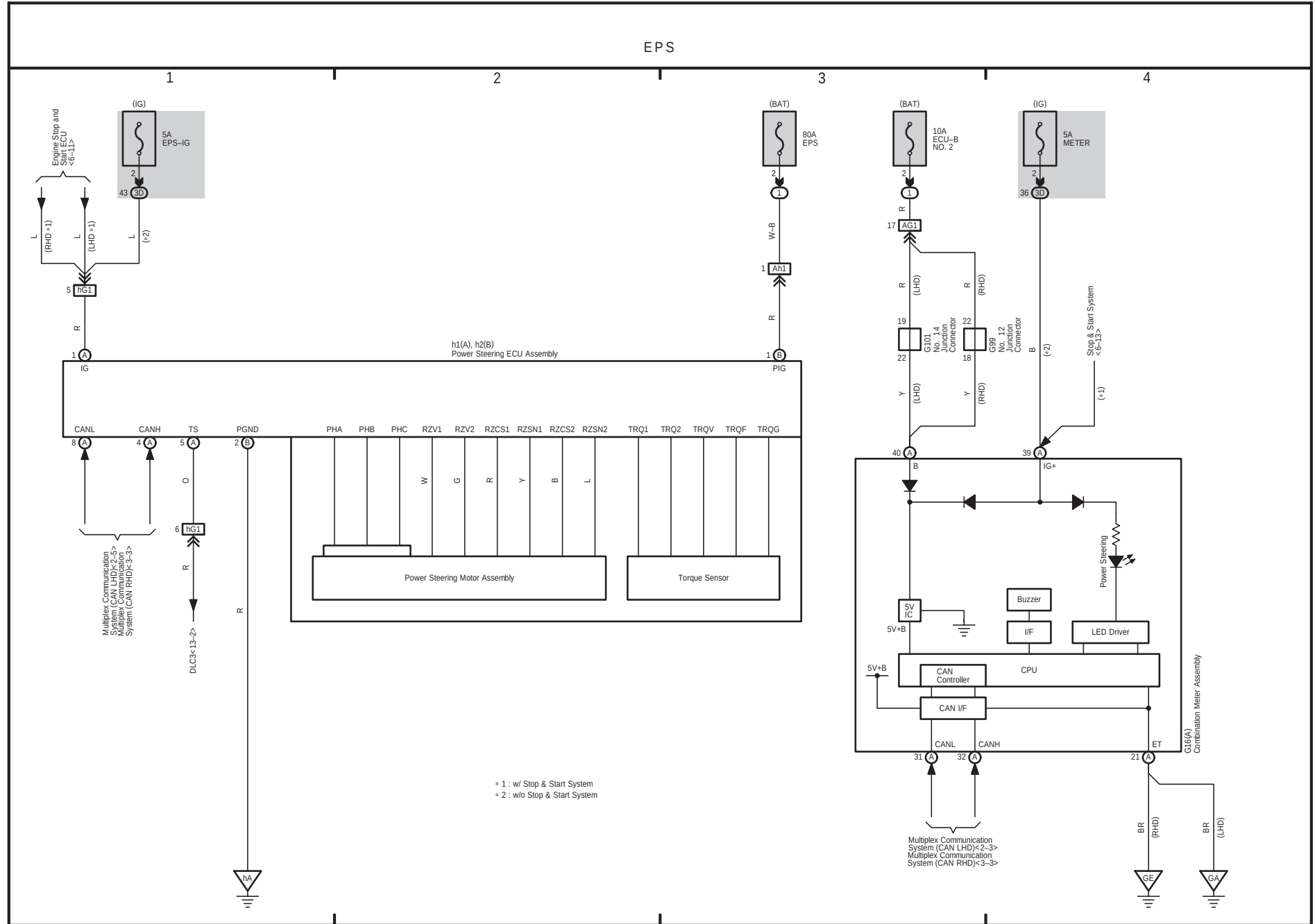
cardiagn.com

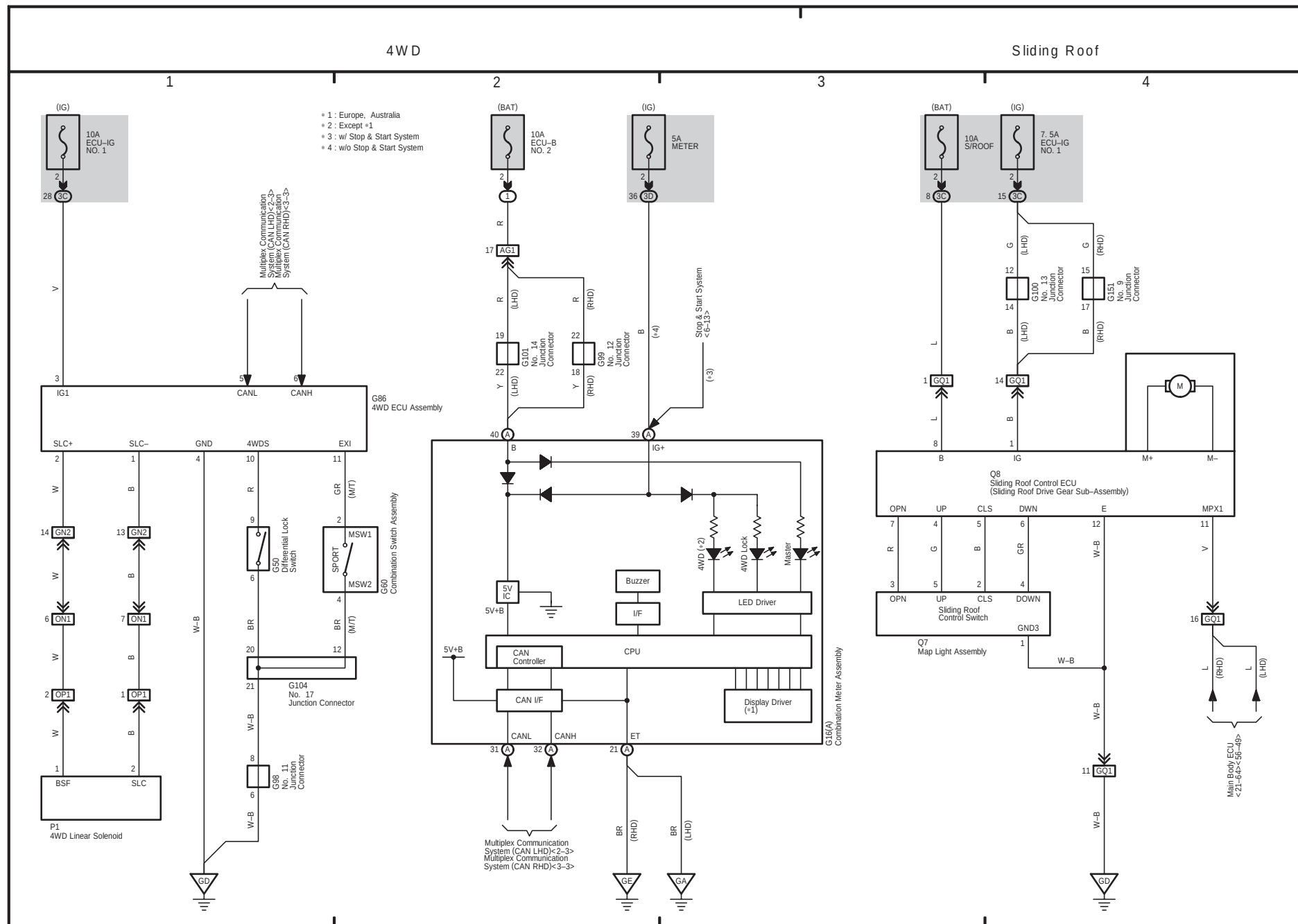


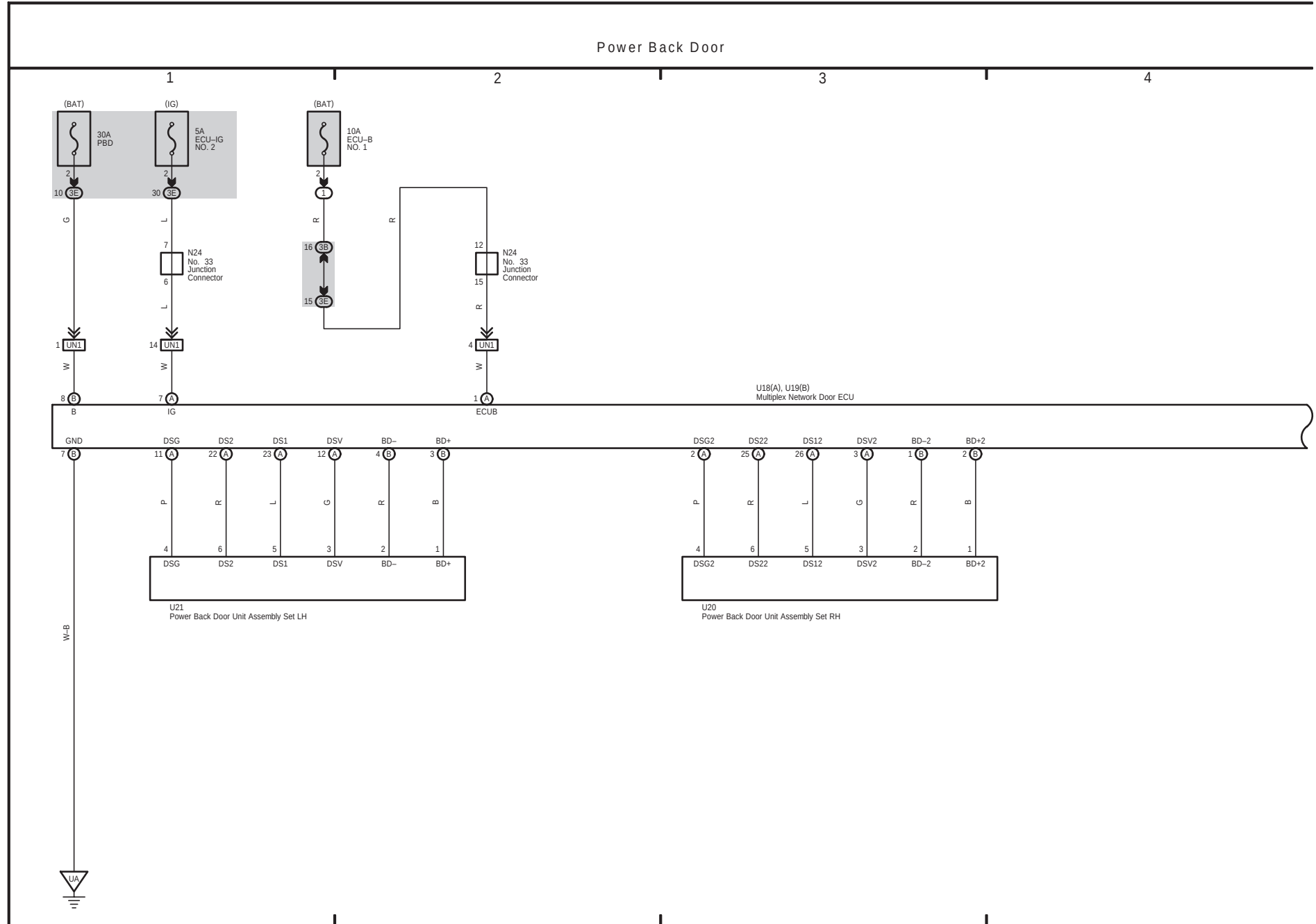
SRS (Except Korea)

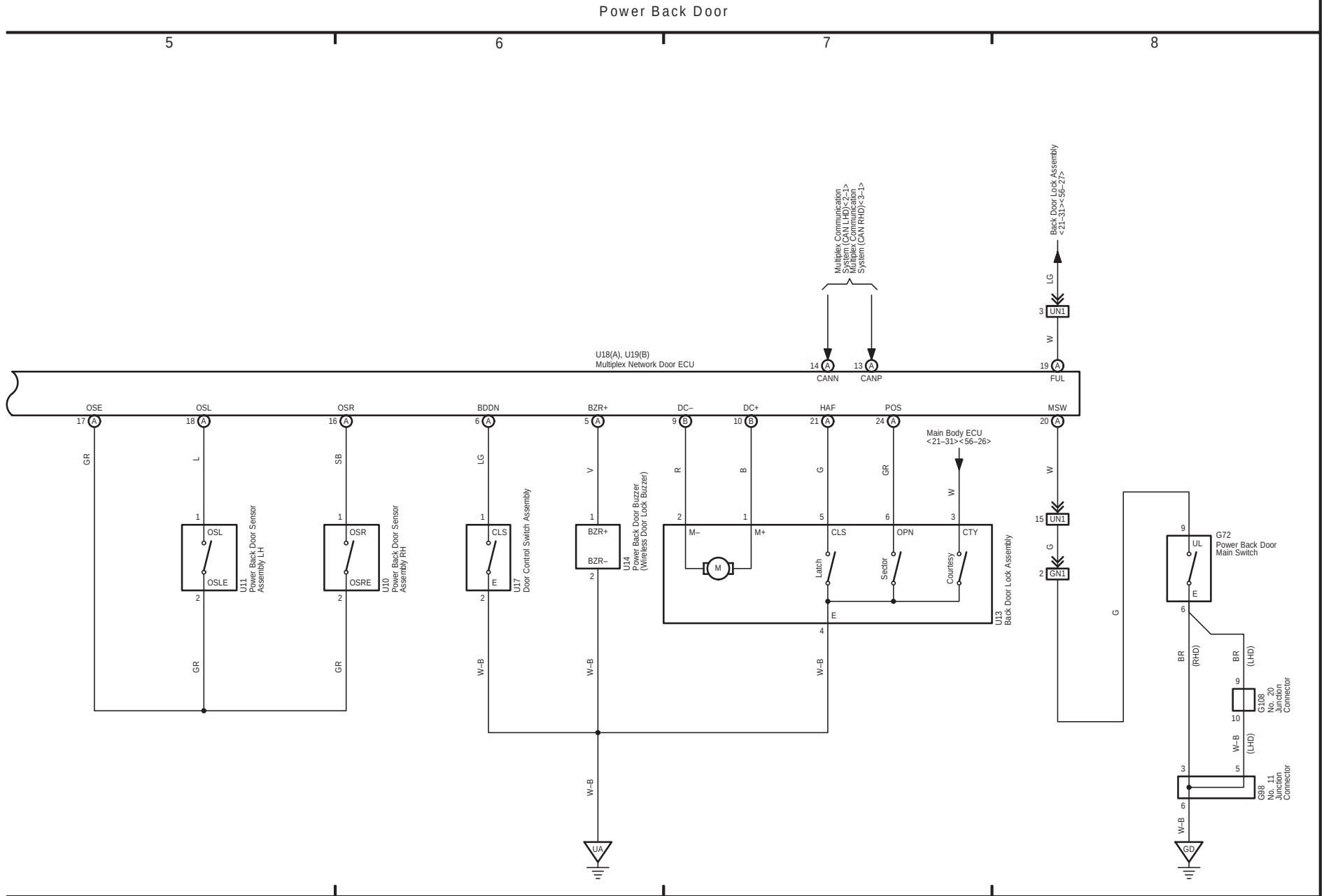
* 4 : w/ Stop & Start System
+ 5 : w/o Stop & Start System

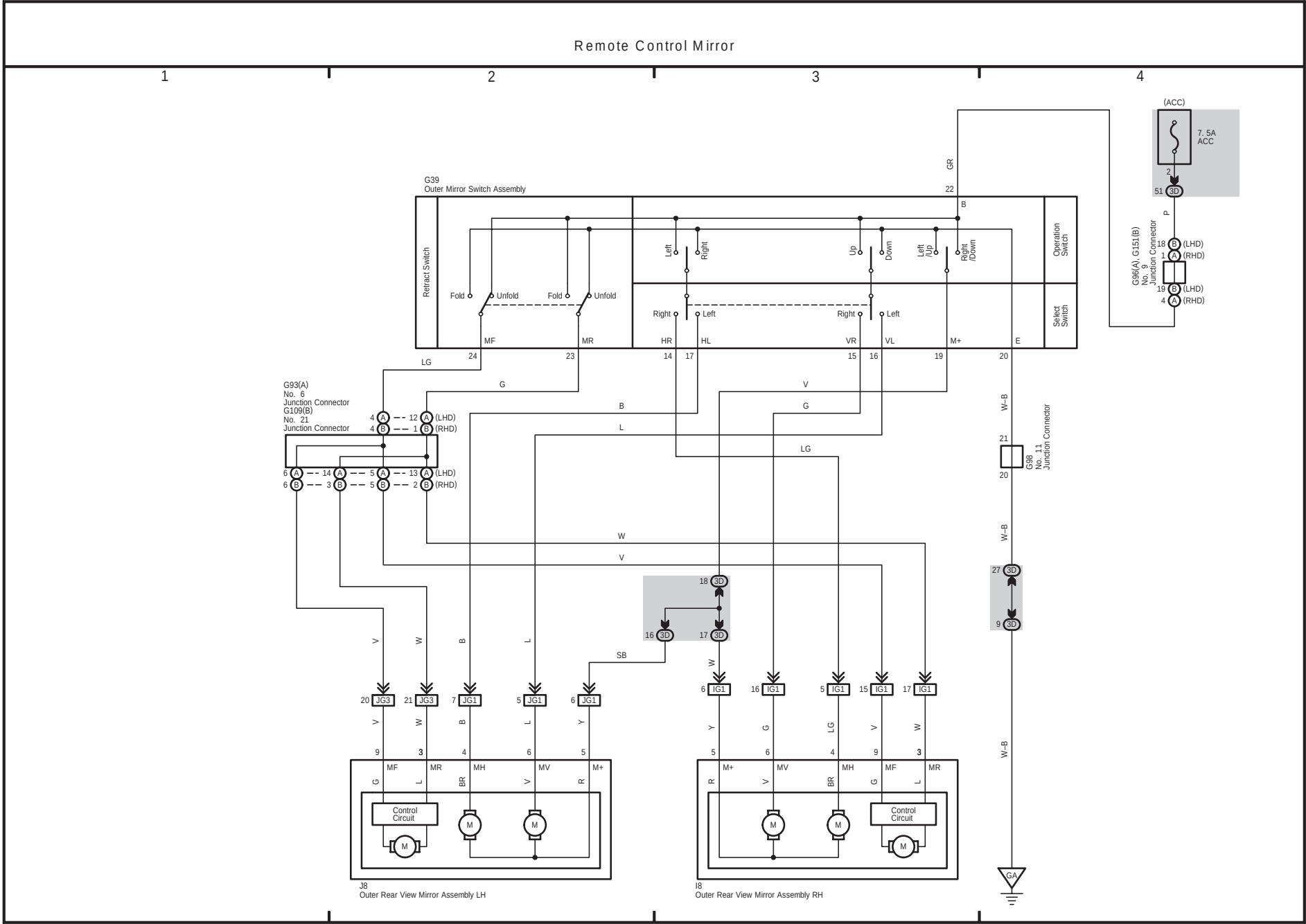




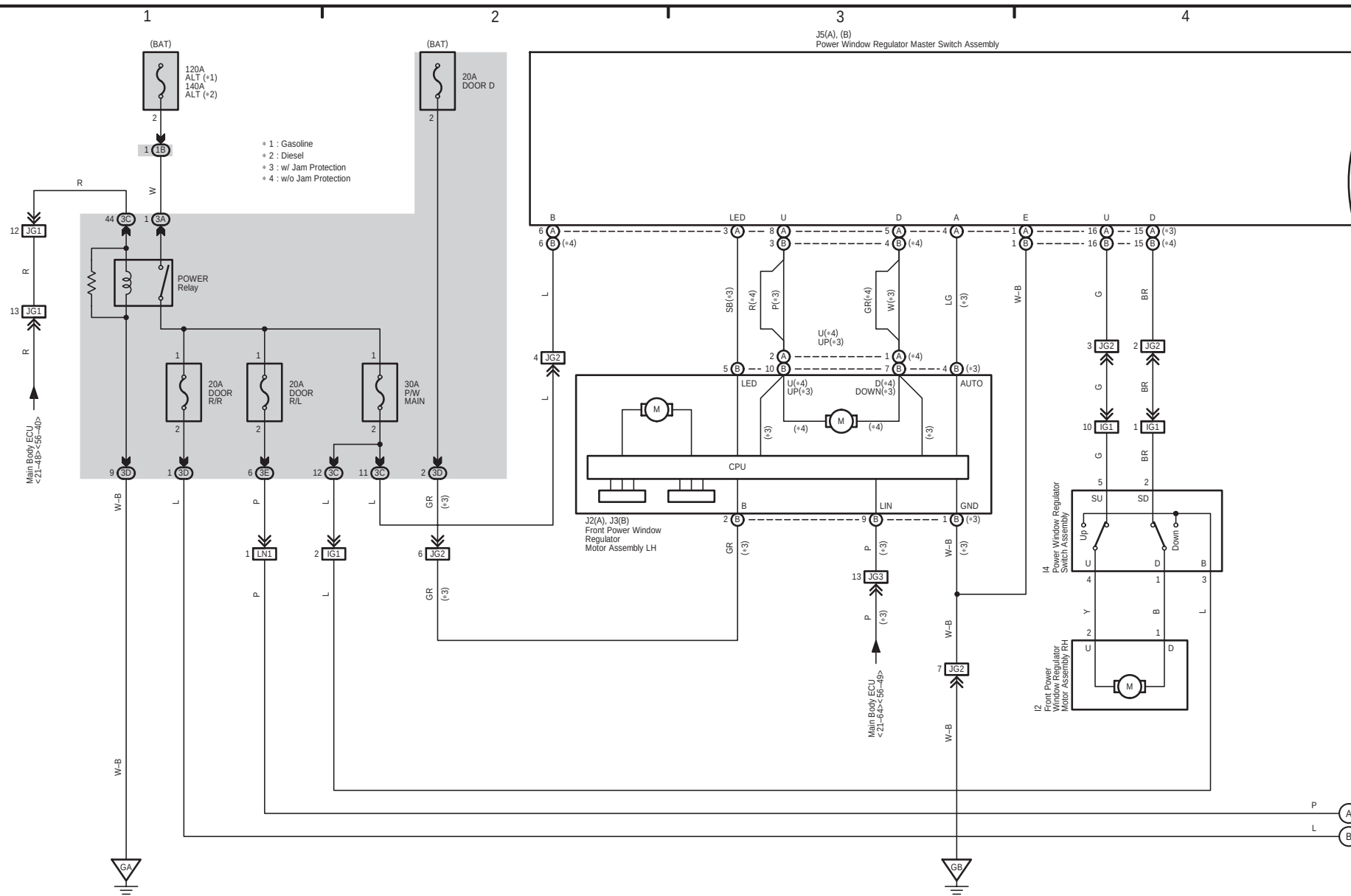




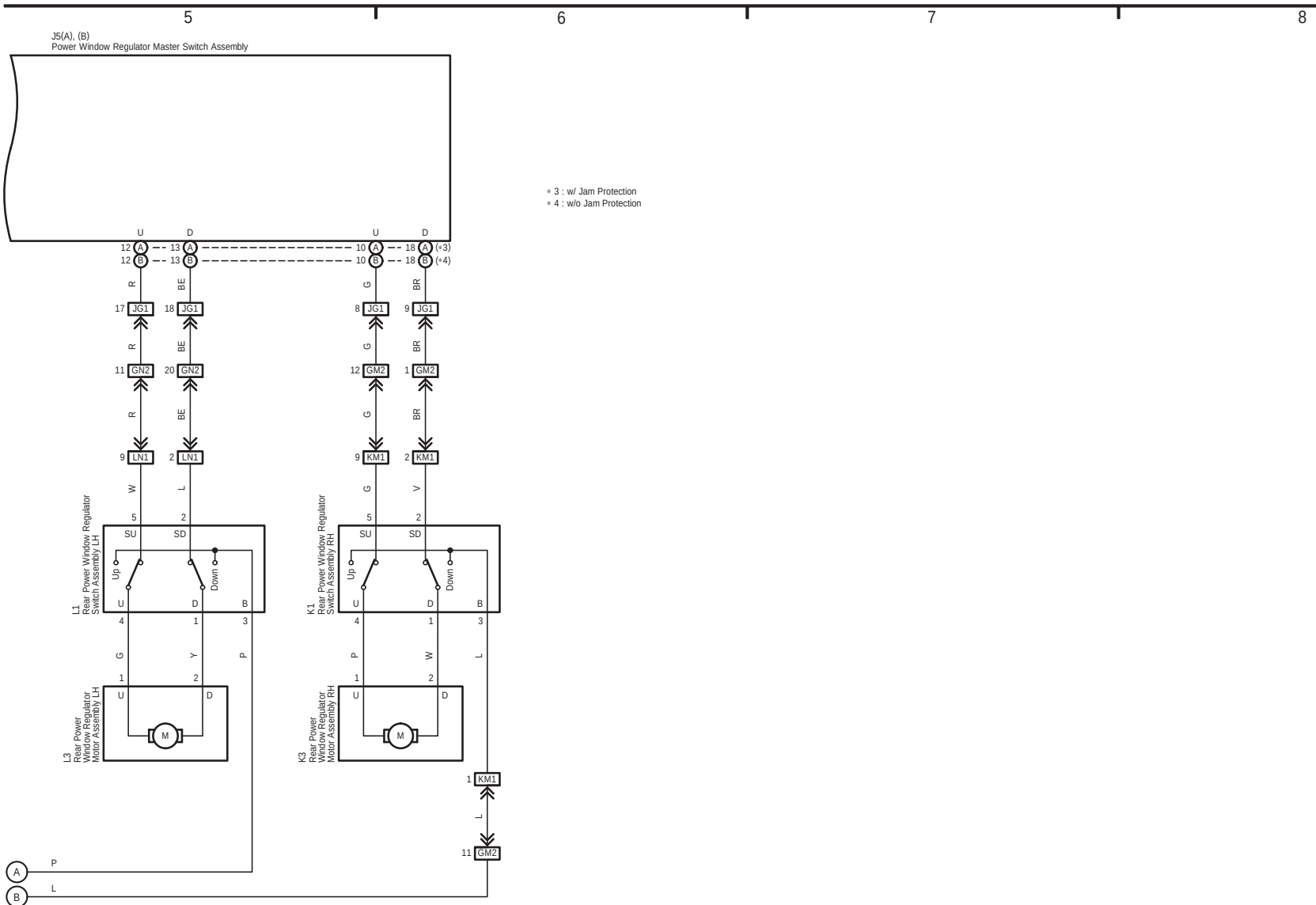




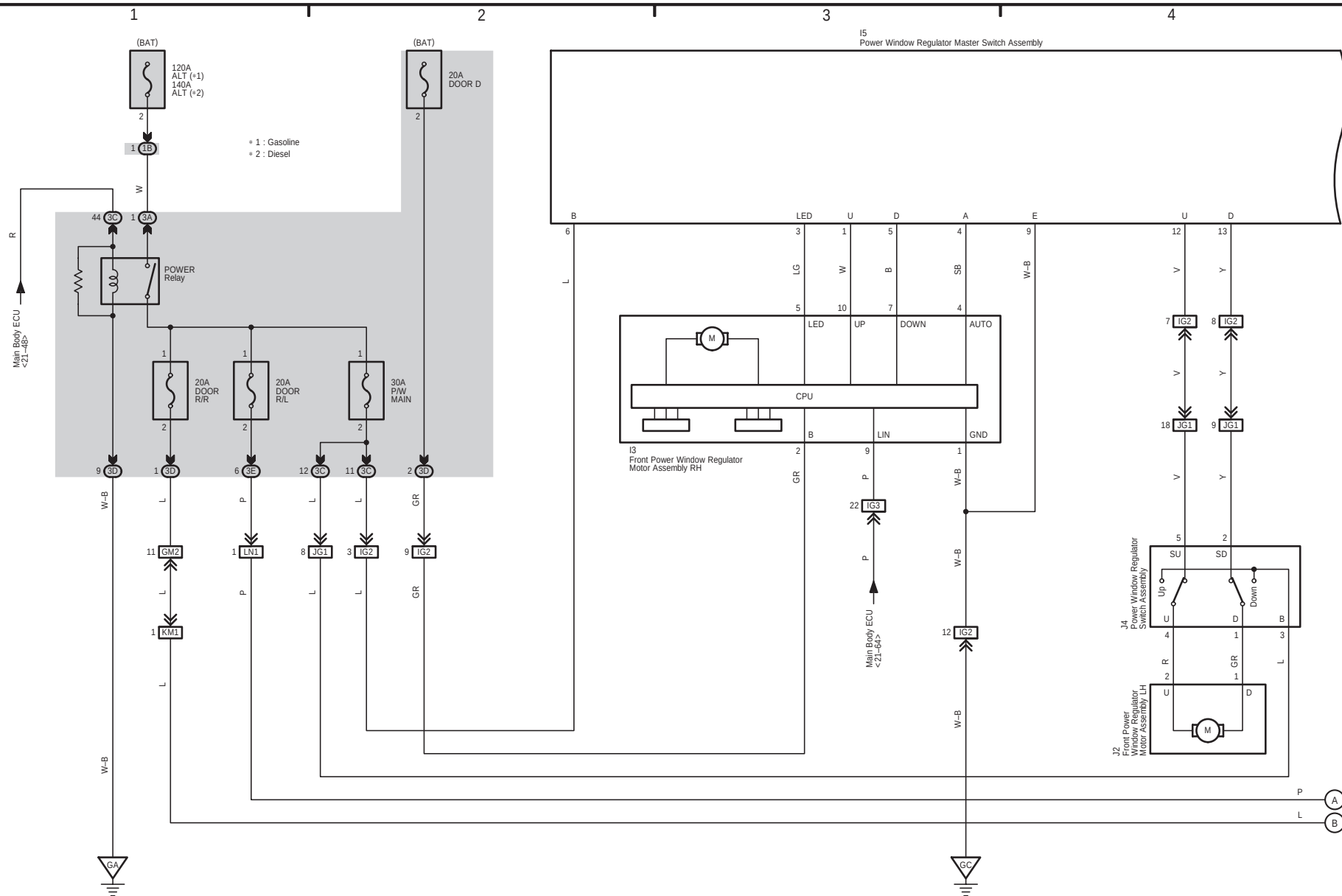
Power Window (LHD)



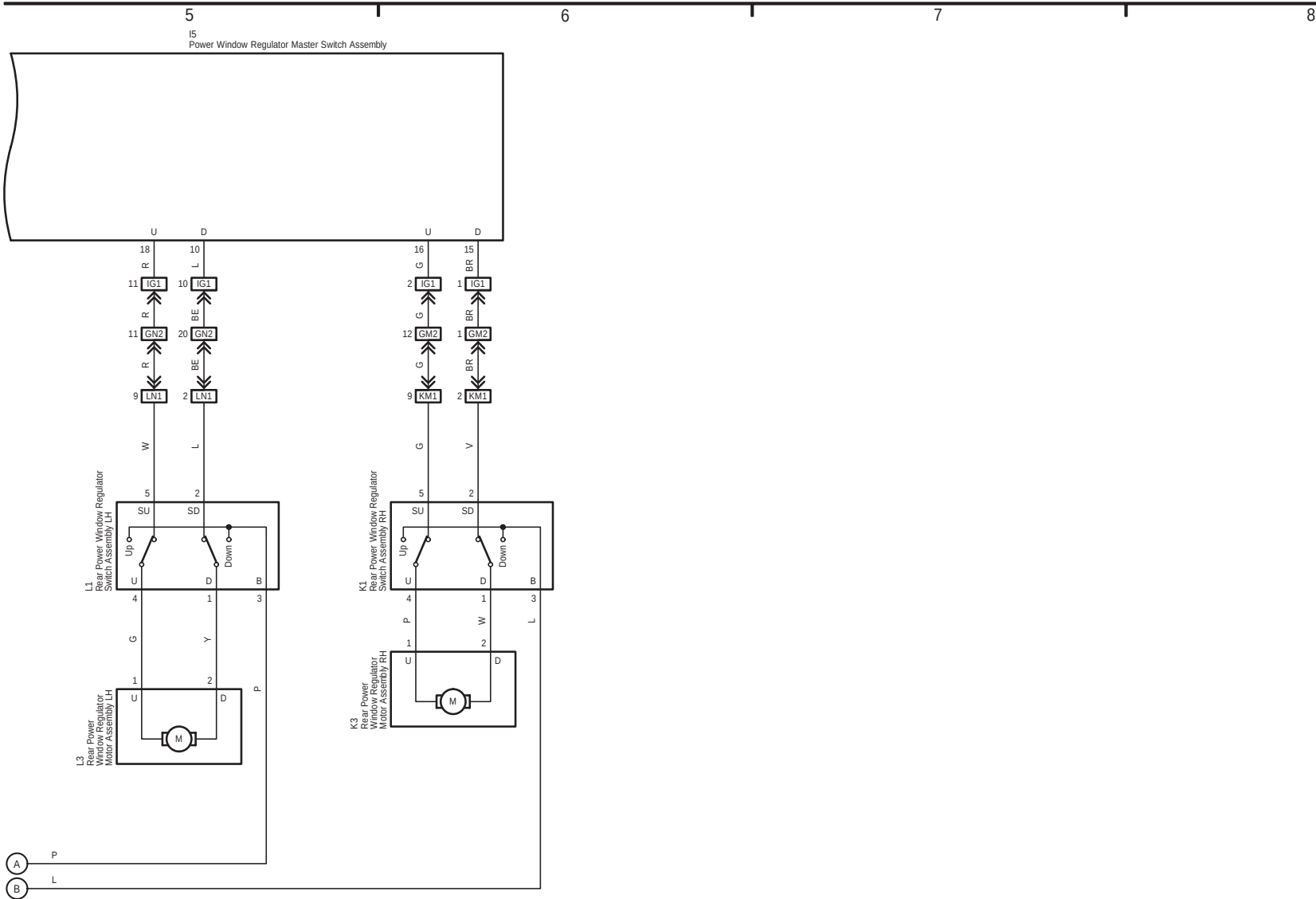
Power Window (LHD)

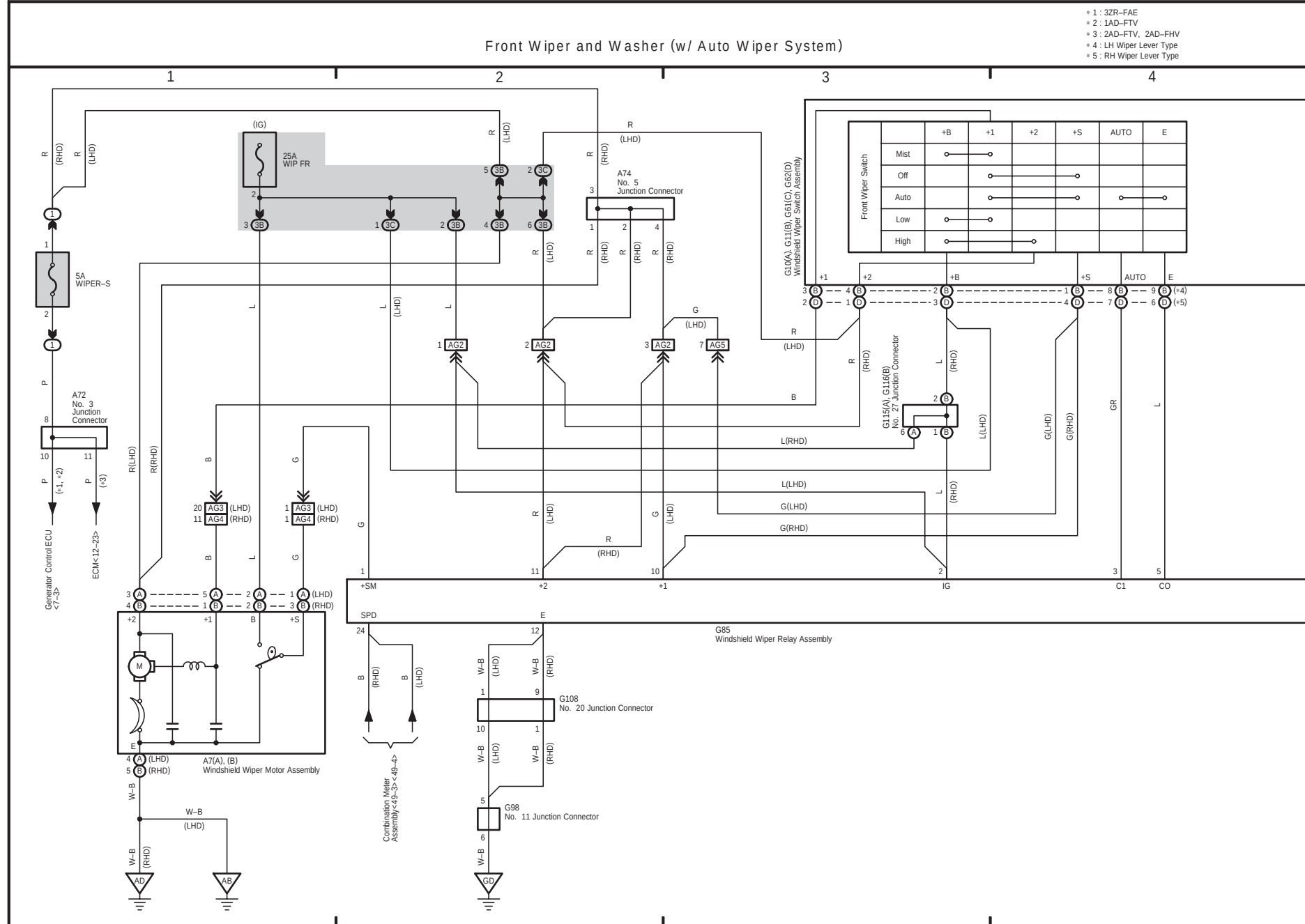


Power Window (RHD)



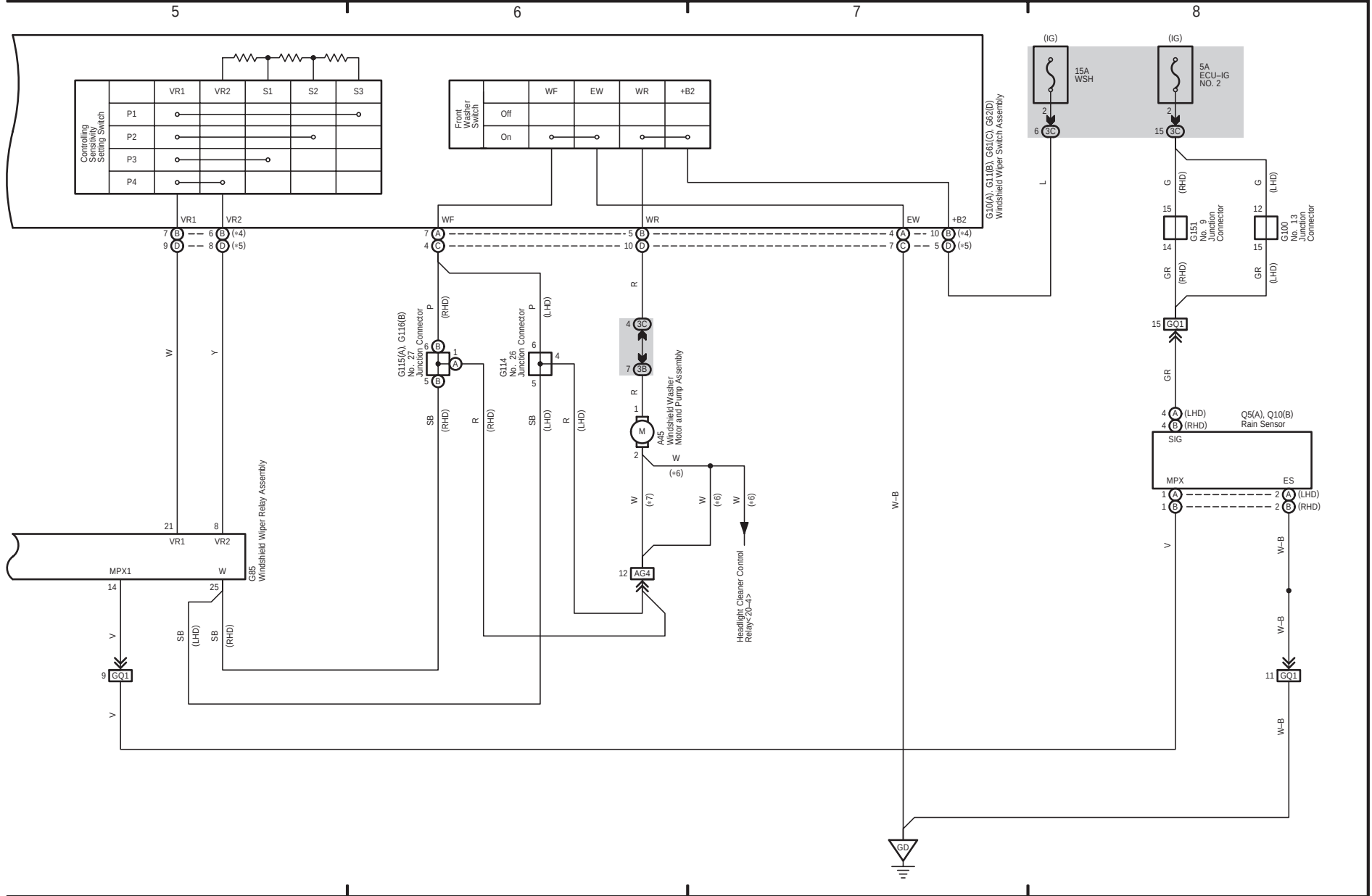
Power Window (RHD)

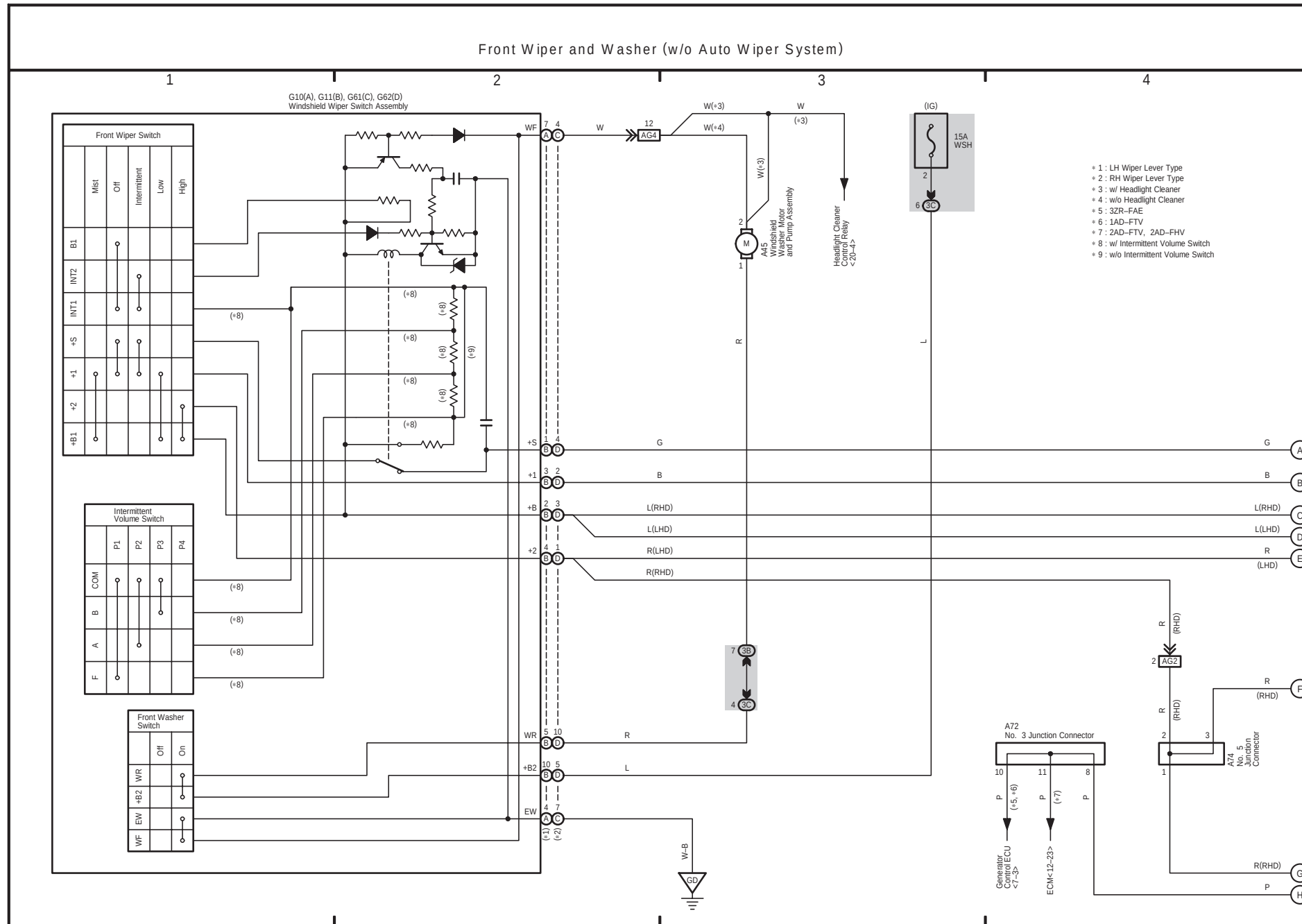




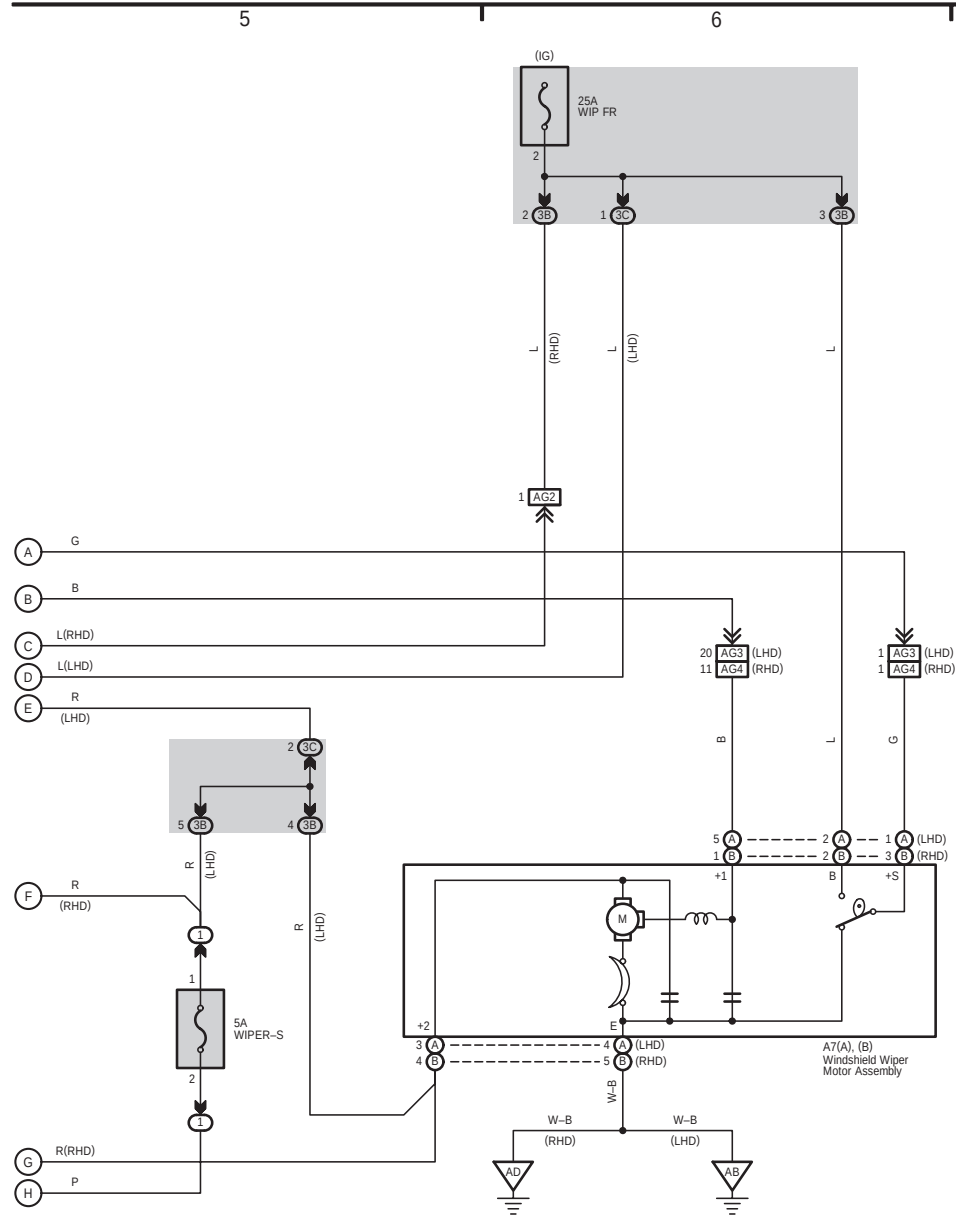
Front Wiper and Washer (w/ Auto Wiper System)

- + 4 : LH Wiper Lever Type
- + 5 : RH Wiper Lever Type
- + 6 : w/ Headlight Cleaner
- + 7 : w/o Headlight Cleaner





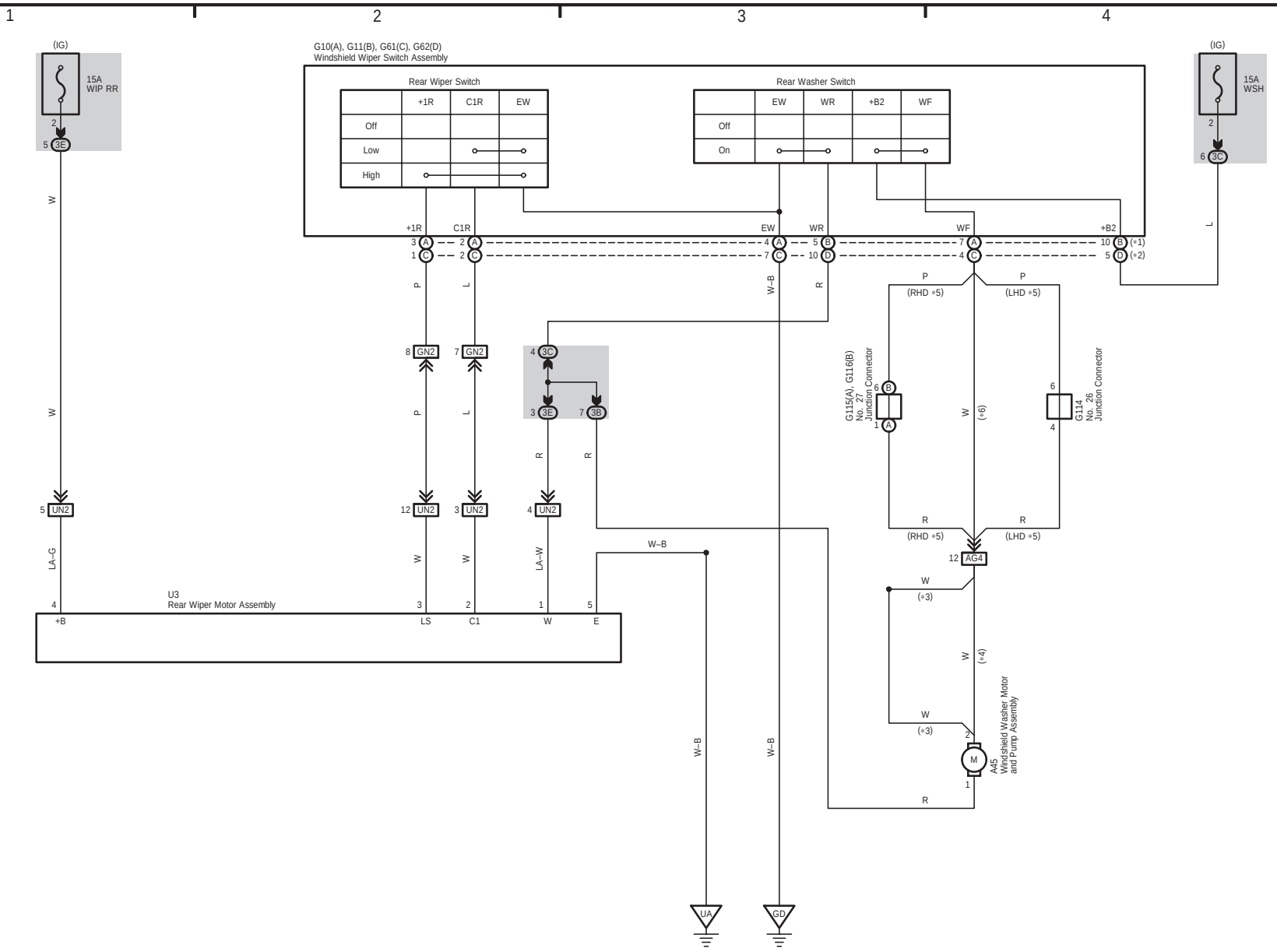
Front Wiper and Washer (w/o Auto Wiper System)



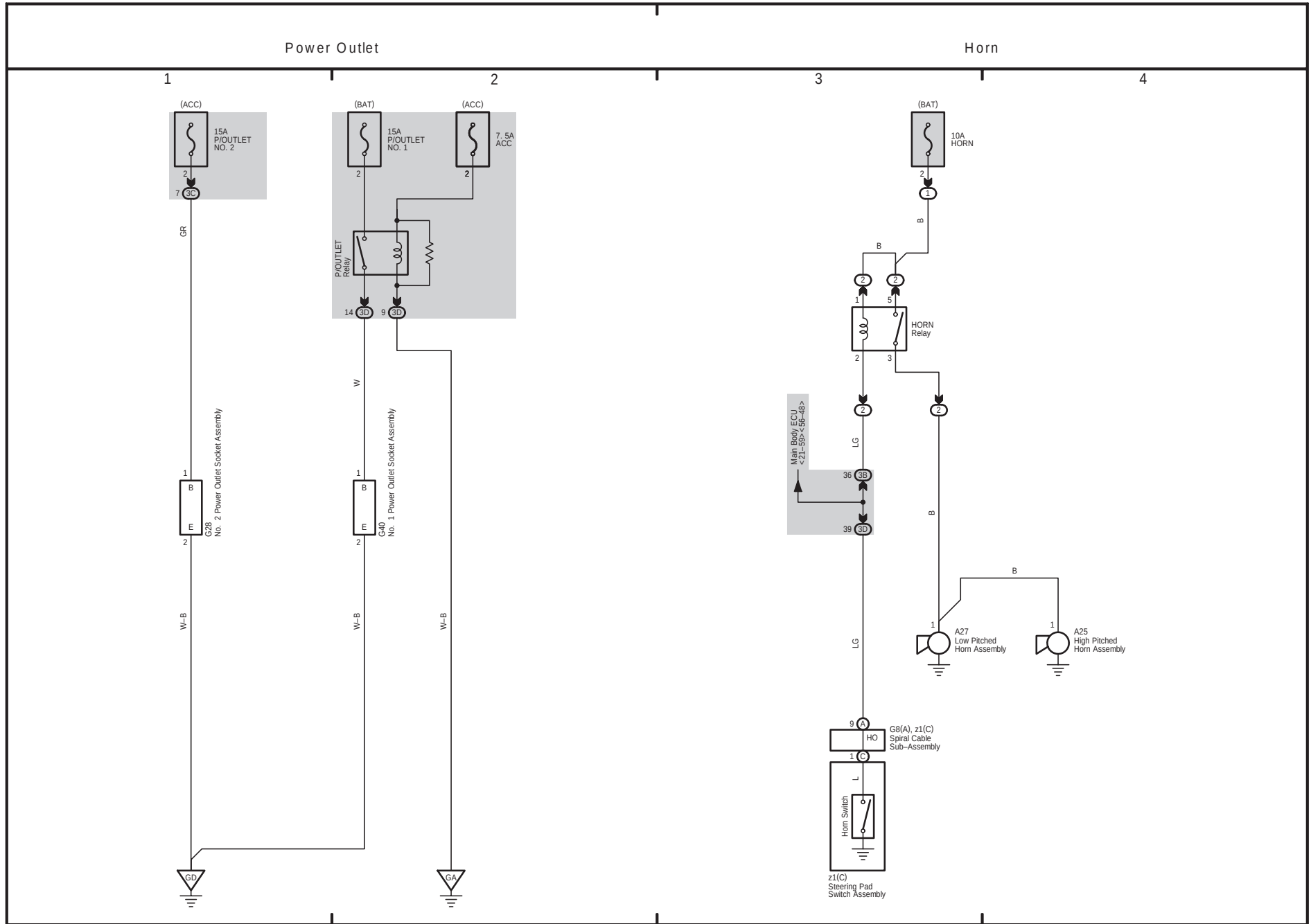
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Rear Wiper and Washer

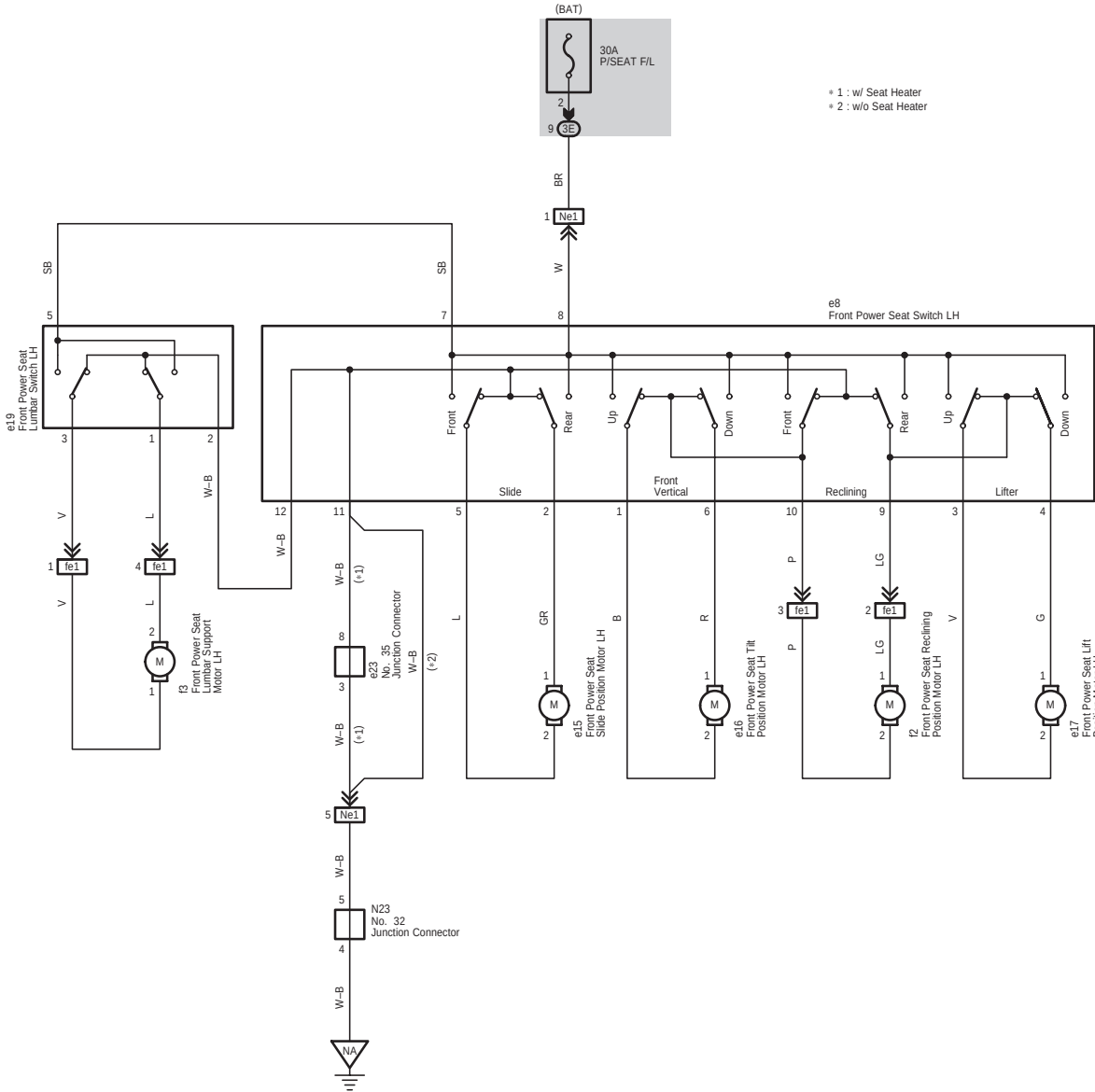
- * 1 : LH Wiper Lever Type
- * 2 : RH Wiper Lever Type
- * 3 : w/ Headlight Cleaner
- * 4 : w/o Headlight Cleaner
- * 5 : w/ Auto Wiper System
- * 6 : w/o Auto Wiper System



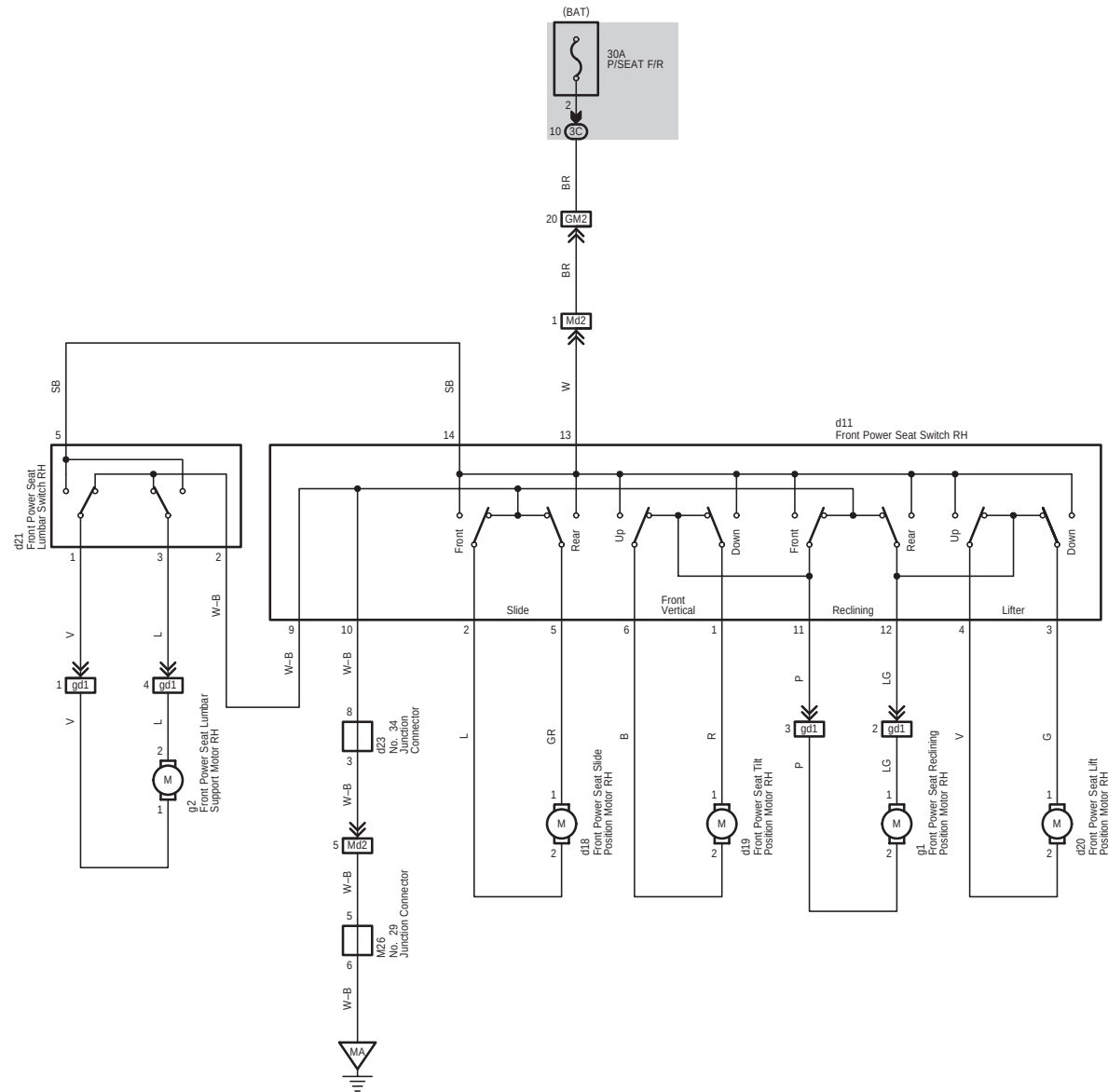
35 TOYOTA RAV4



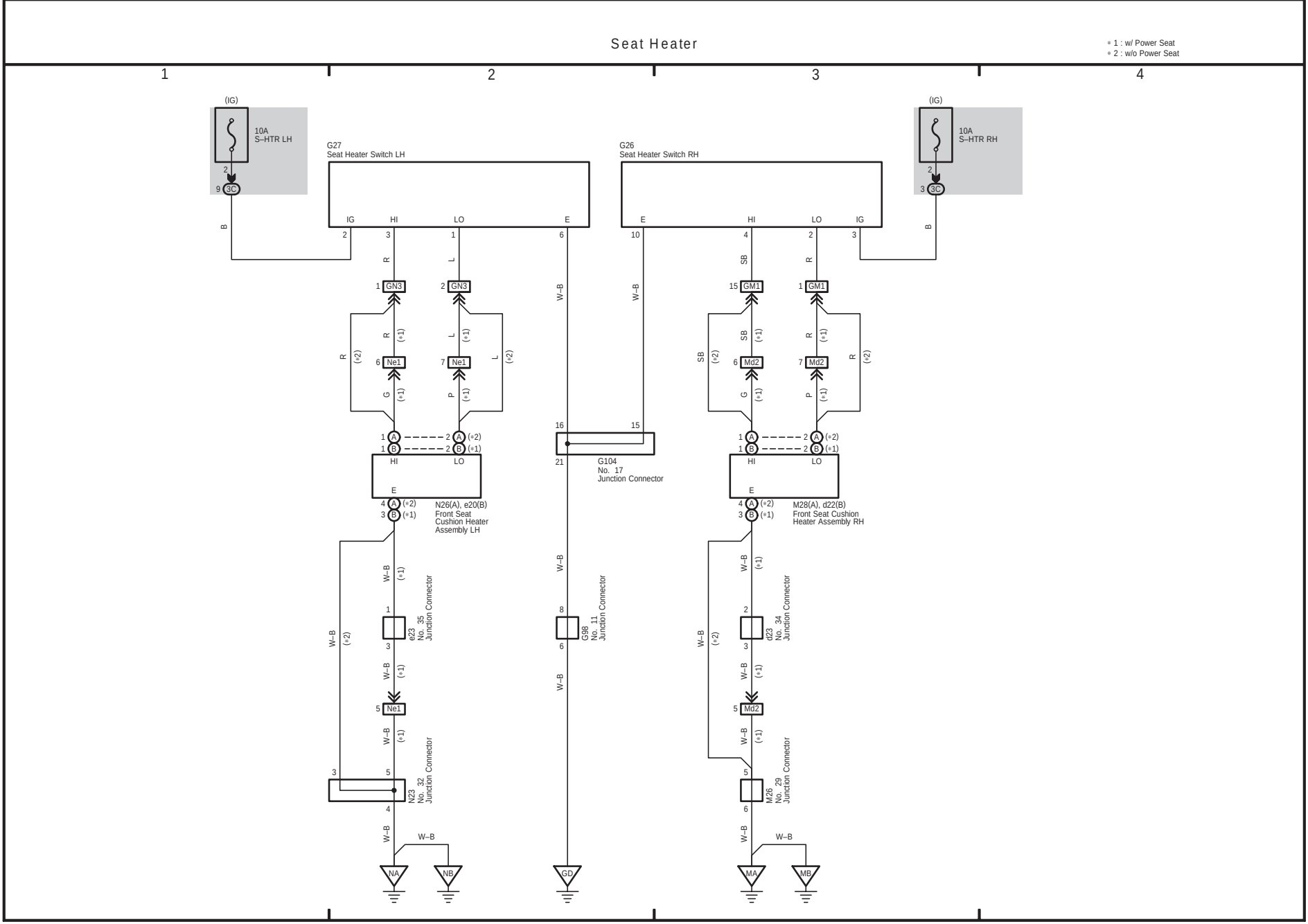
Power Seat (LHD) (Except Korea)



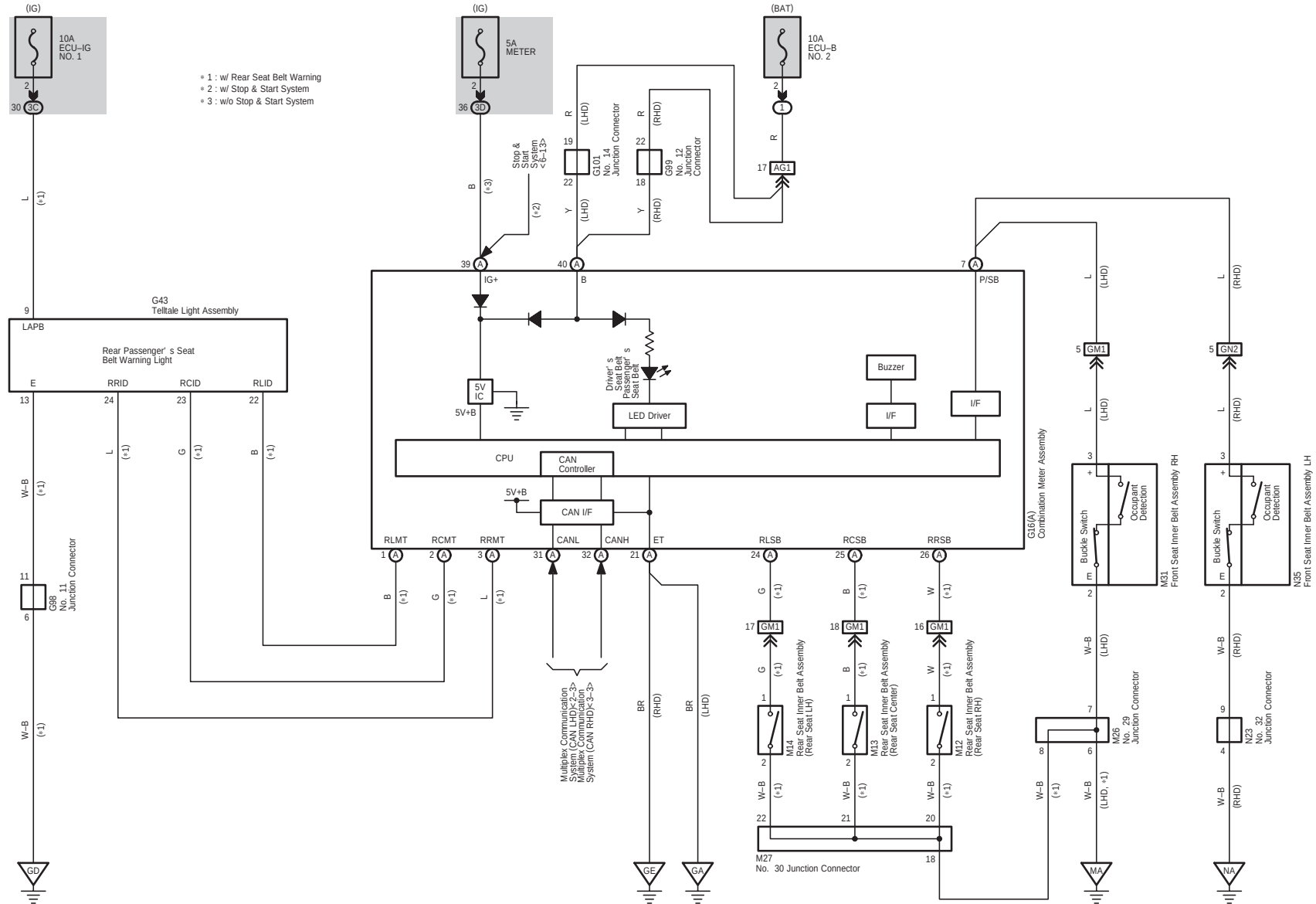
Power Seat (RHD)

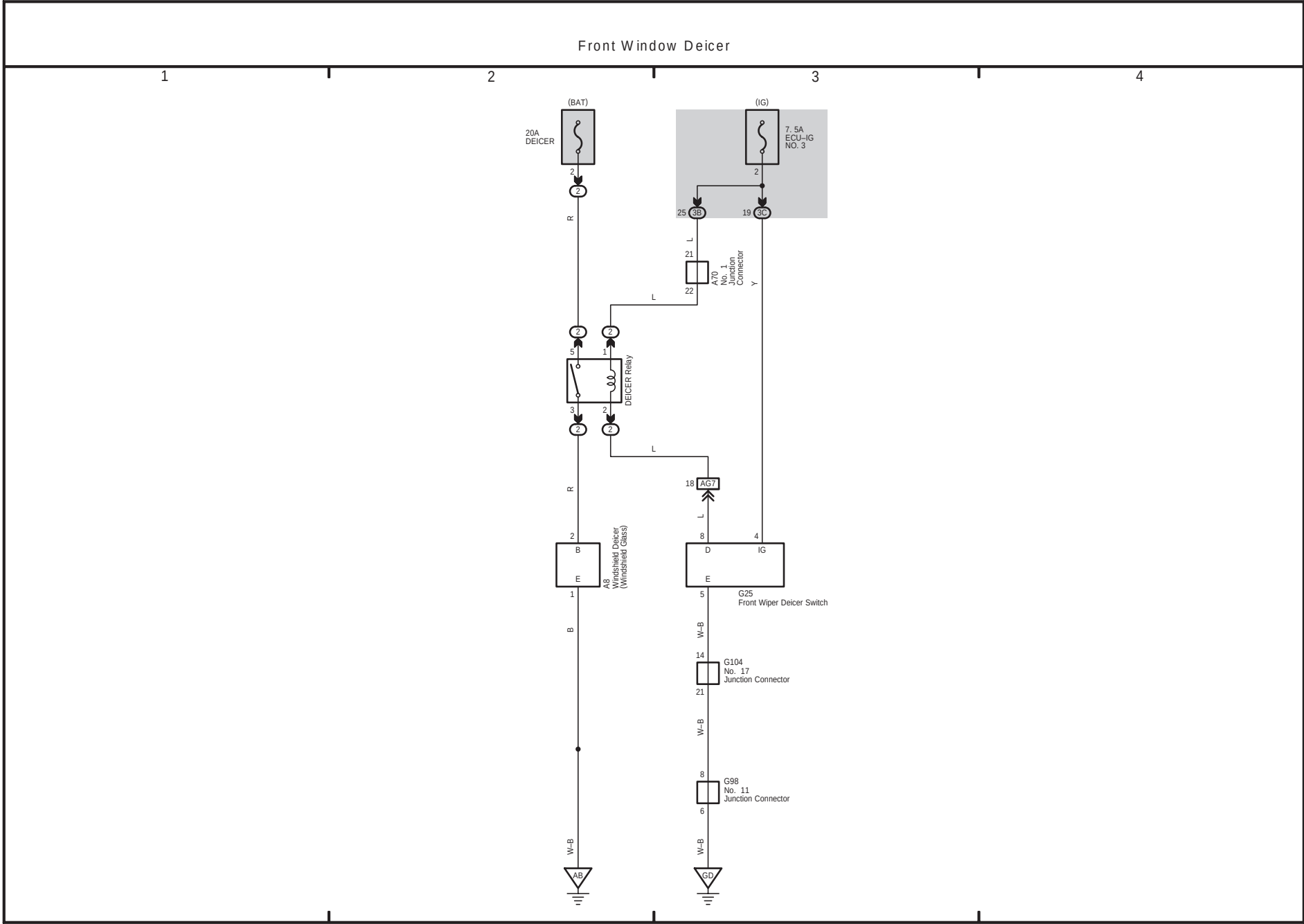


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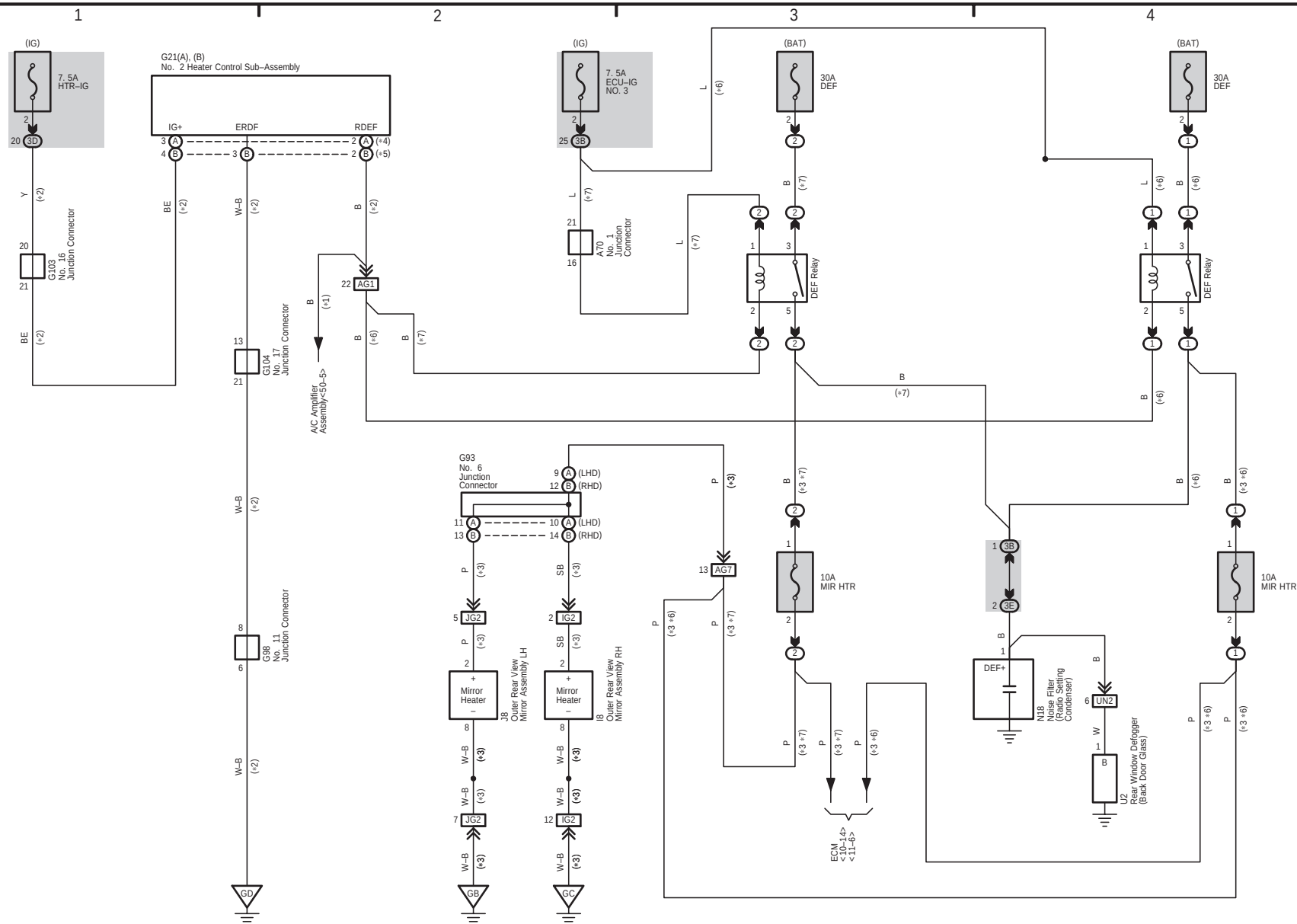
Seat Belt Warning (Except Korea)



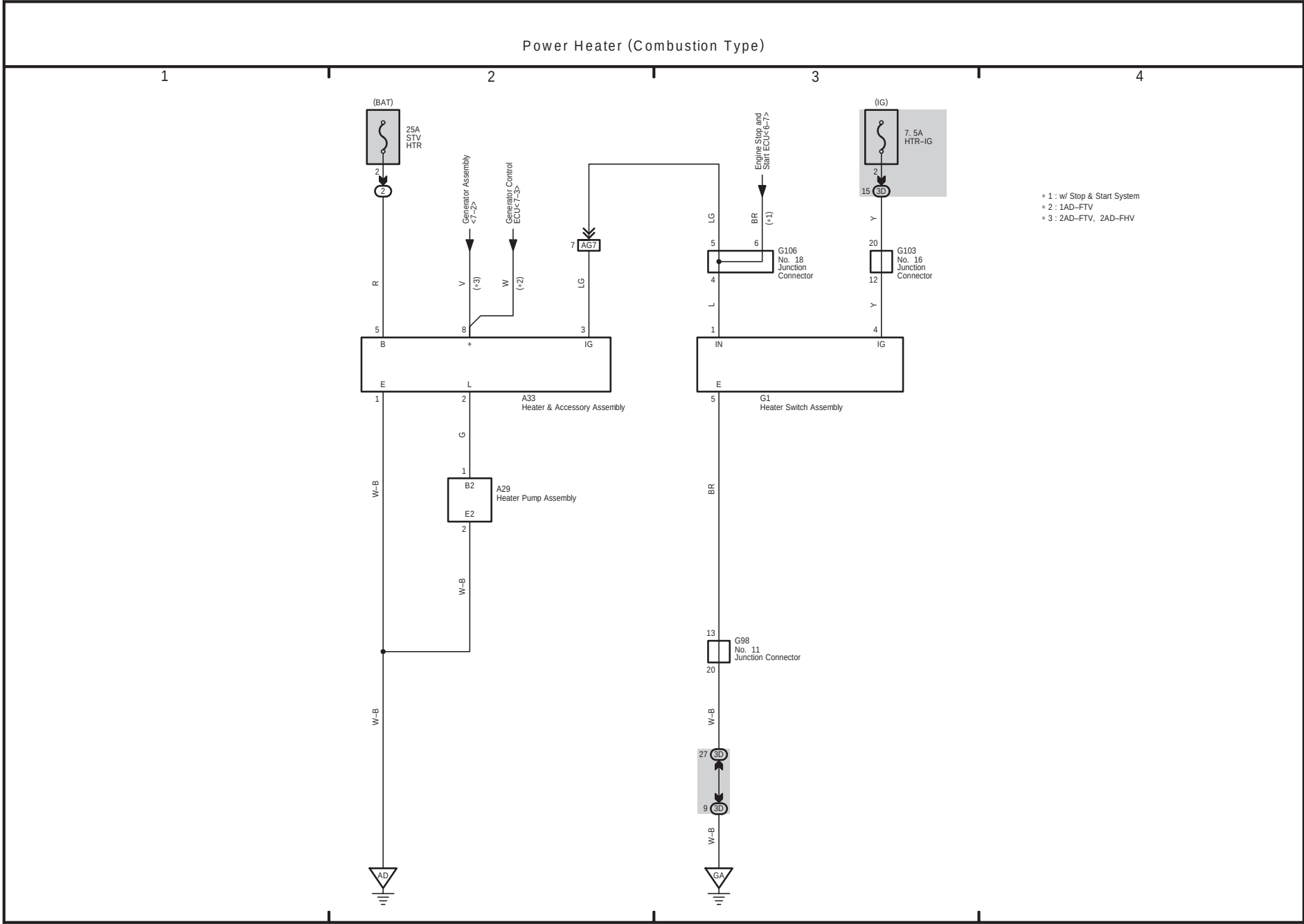


* 1 : Automatic Air Conditioner
* 2 : Manual Air Conditioner
* 3 : w/ Mirror Heater

- * 4 : Australia, Middle East
- * 5 : Except *4
- * 6 : Korea
- * 7 : Except Korea



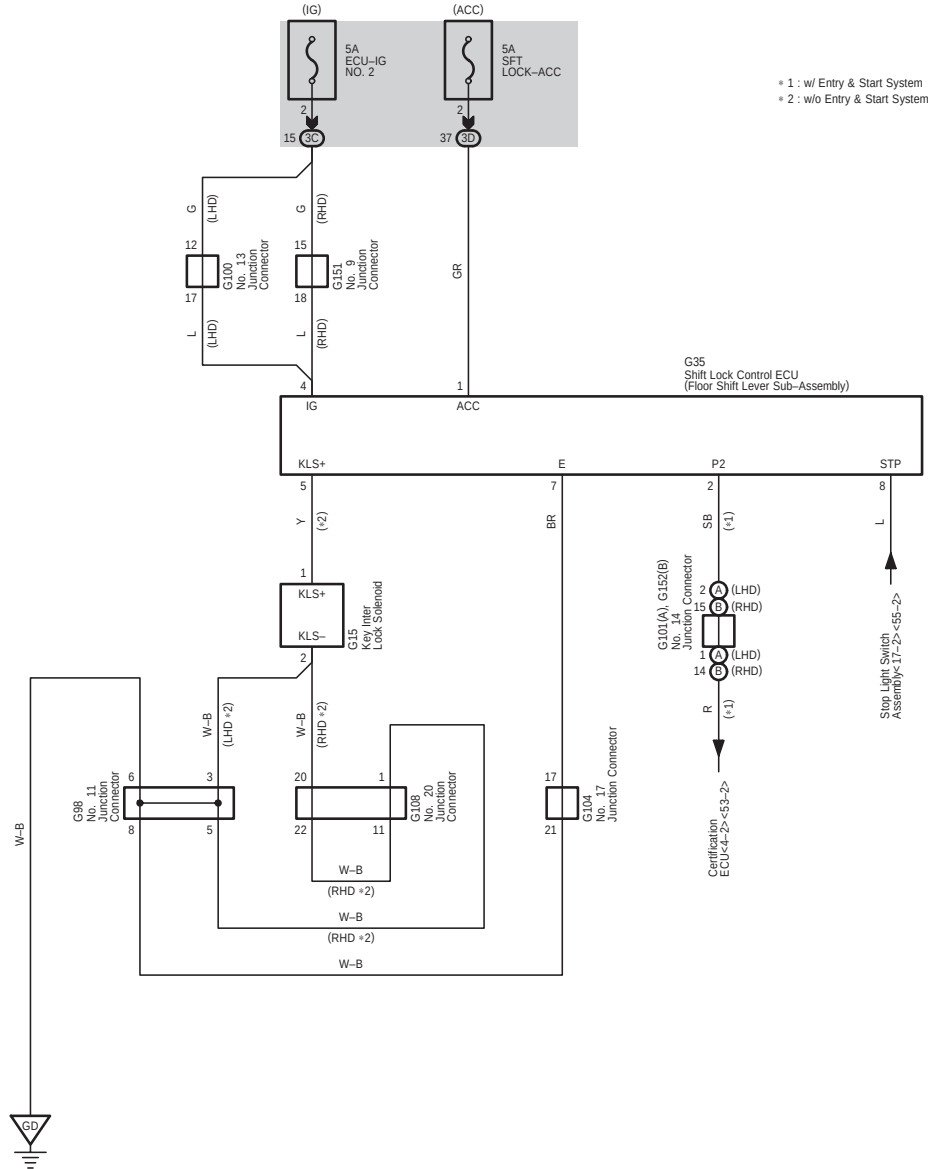
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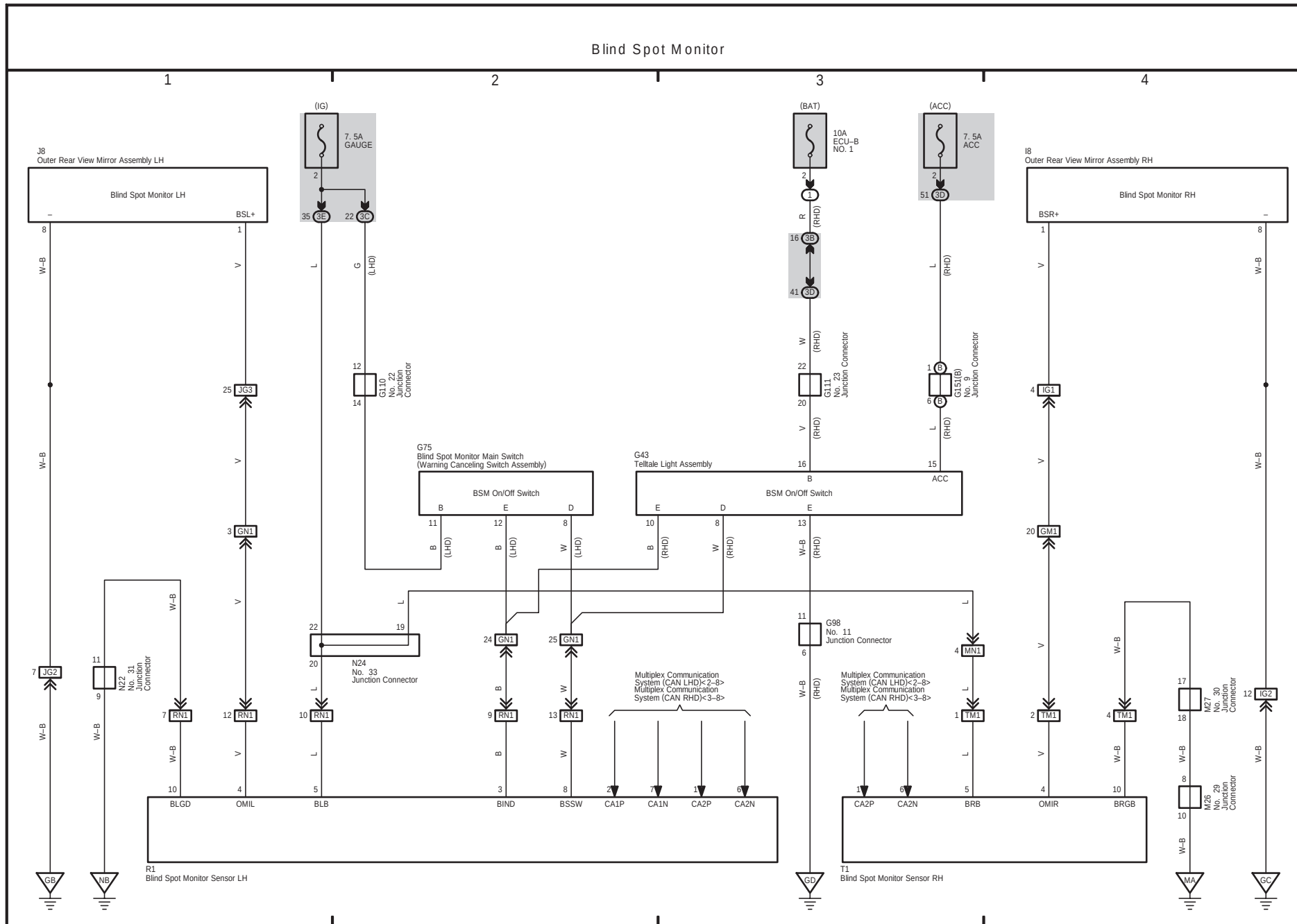


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Shift Lock

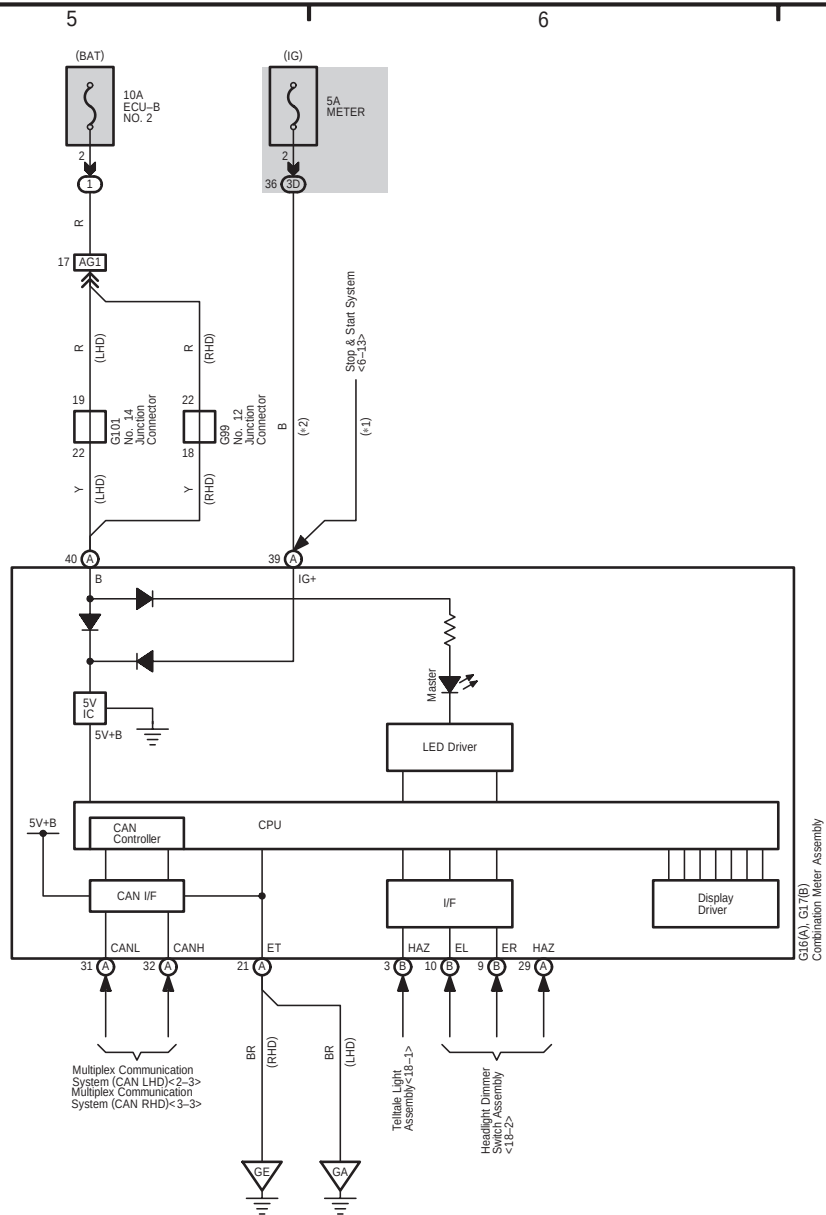
1 2 3 4

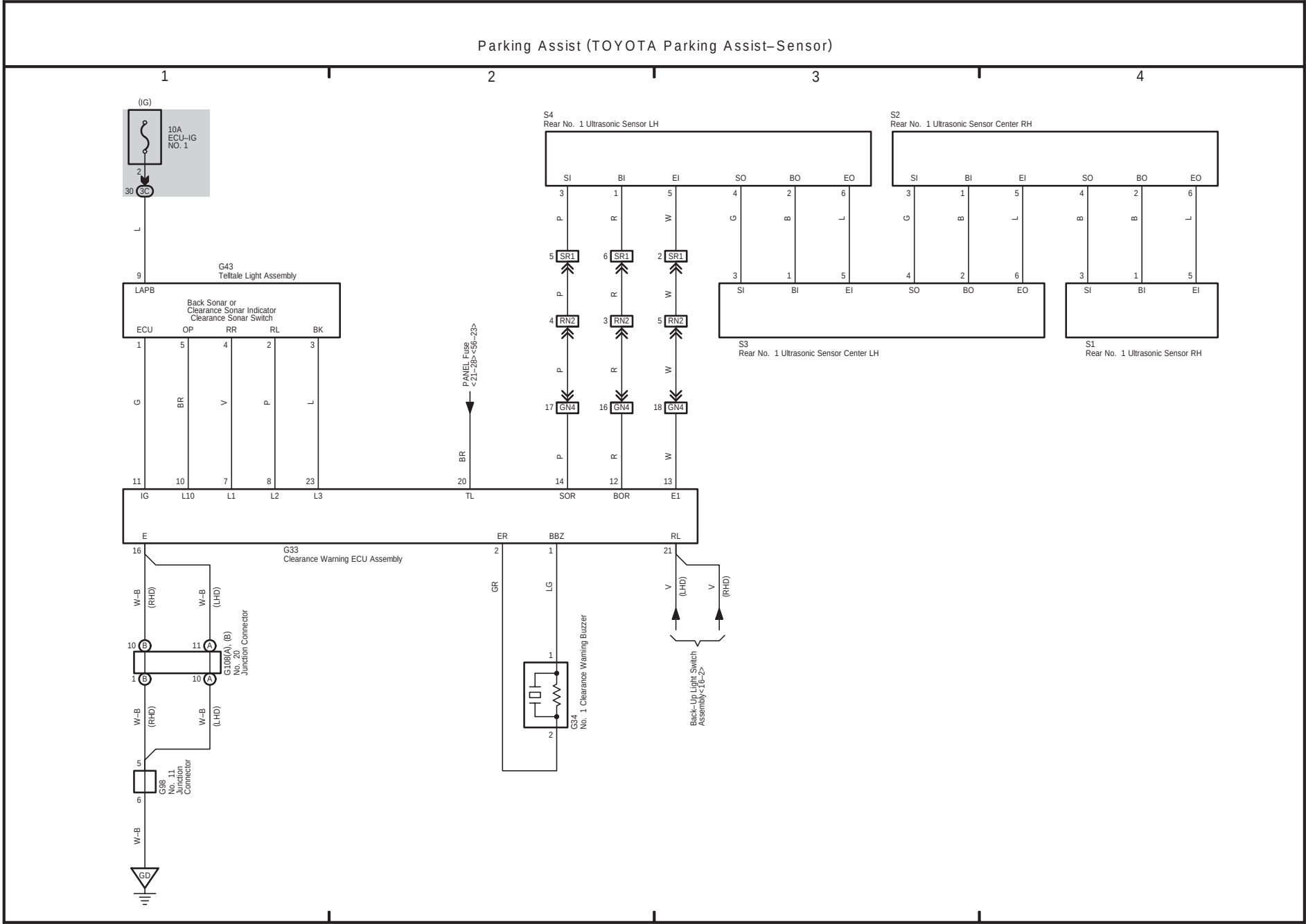




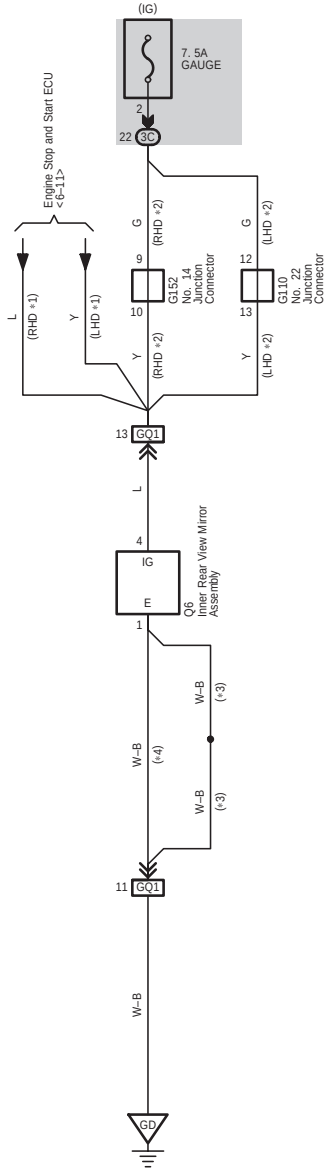
M

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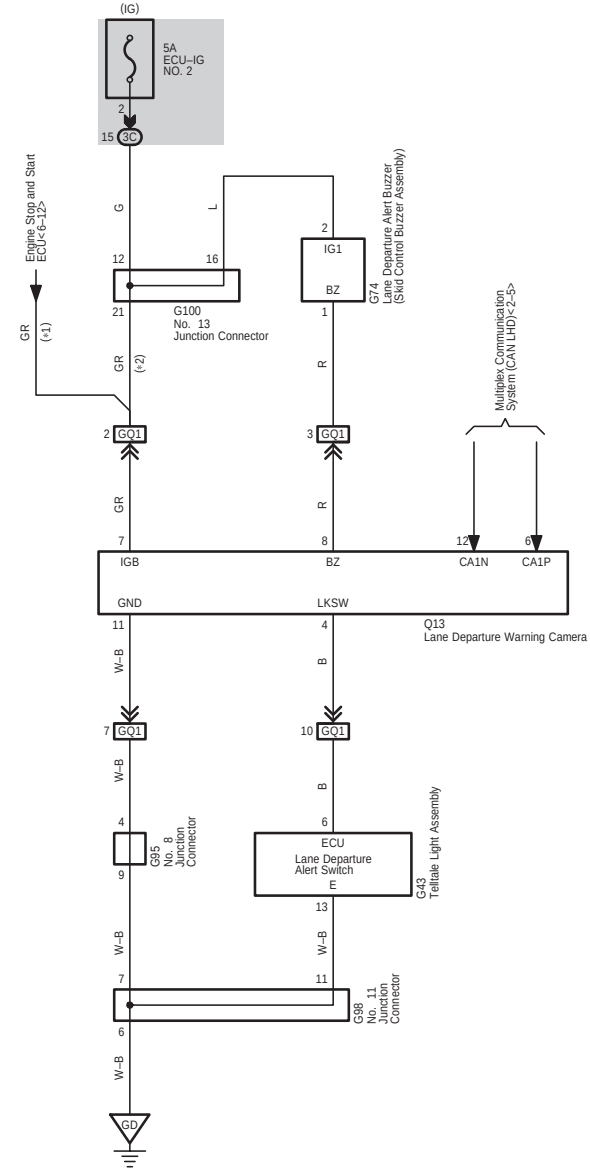


Automatic Glare-Resistant EC Mirror



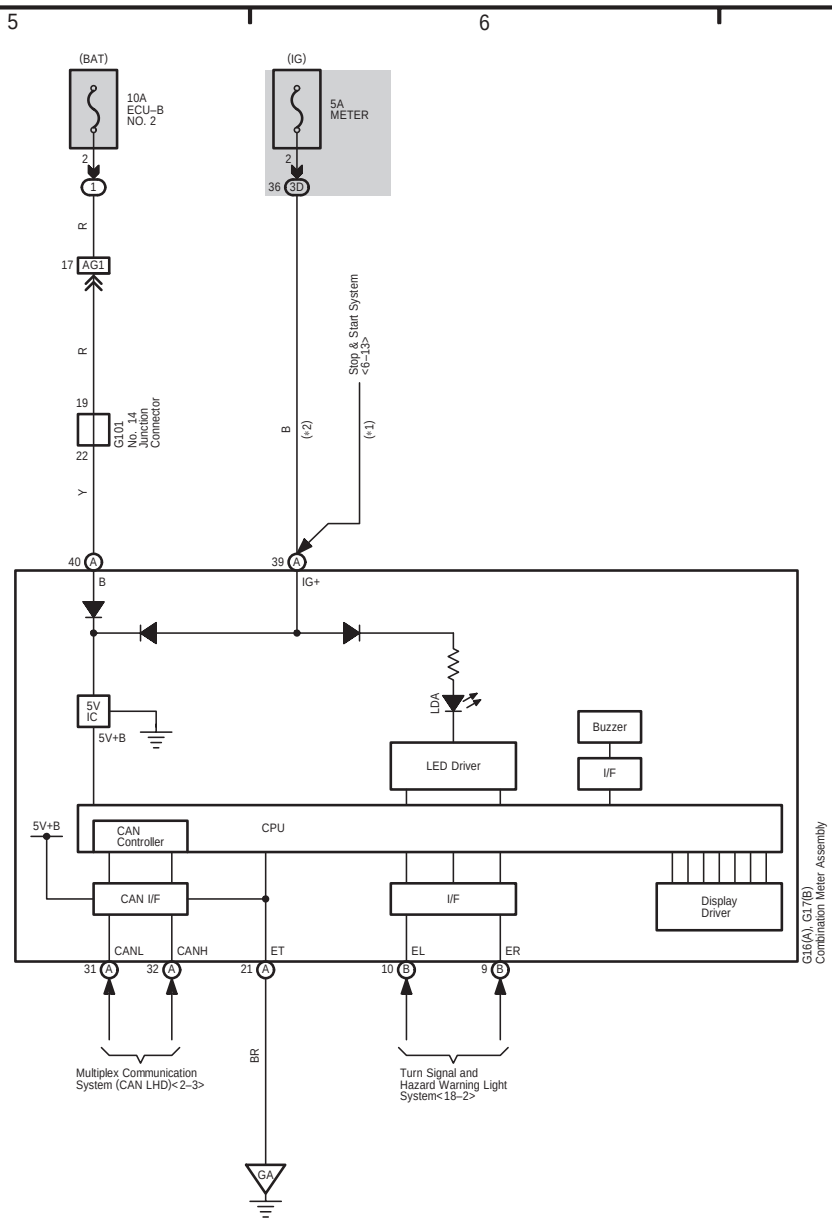
- * 1 : w/ Stop & Start System
- * 2 : w/o Stop & Start System
- * 3 : w/ Sliding Roof, w/ Auto Wiper System
- * 4 : w/o Sliding Roof w/o Auto Wiper System

Lane Departure Alert



Lane Departure Alert

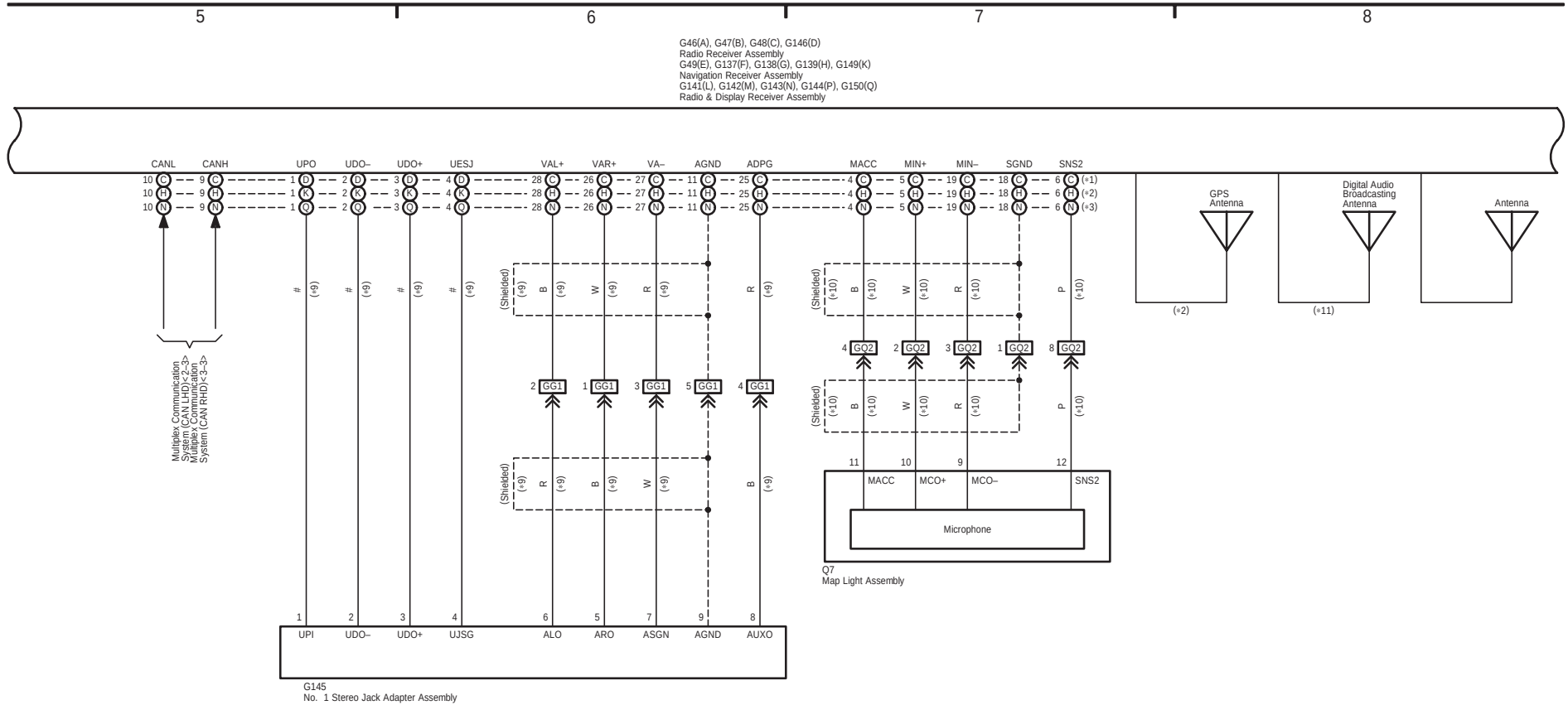
• 1 : w/ Stop & Start System
• 2 : w/o Stop & Start System



OVERALL ELECTRICAL WIRING DIAGRAM

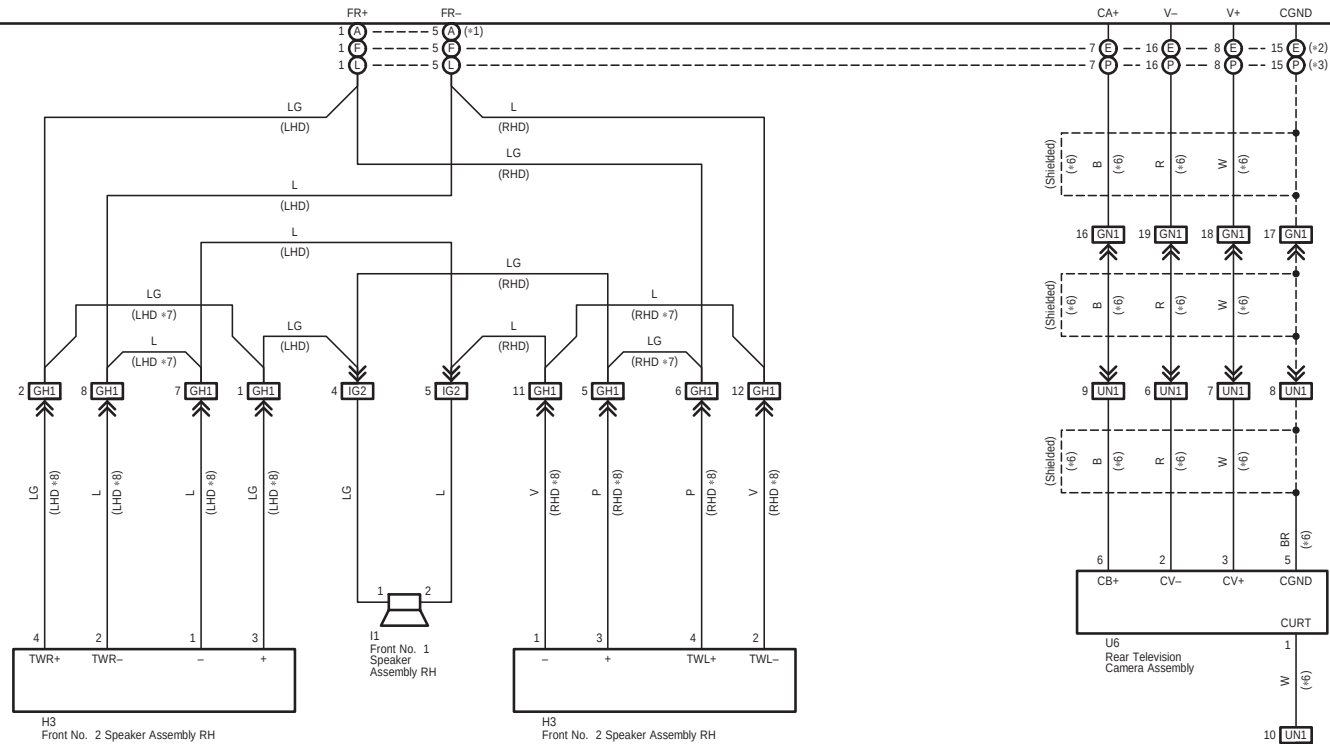


Audio System, Navigation System, Parking Assist (Back Guide Monitor or Rear View Monitor)



A horizontal number line with tick marks at 9, 10, 11, and 12.

G46(A), G47(B), G48(C), G146(D)
Radio Receiver Assembly
G49(E), G137(F), G138(G), G139(H), G149(K)
Navigation Receiver Assembly
G141(L), G142(M), G143(N), G144(P), G150(Q)
Radio & Display Receiver Assembly



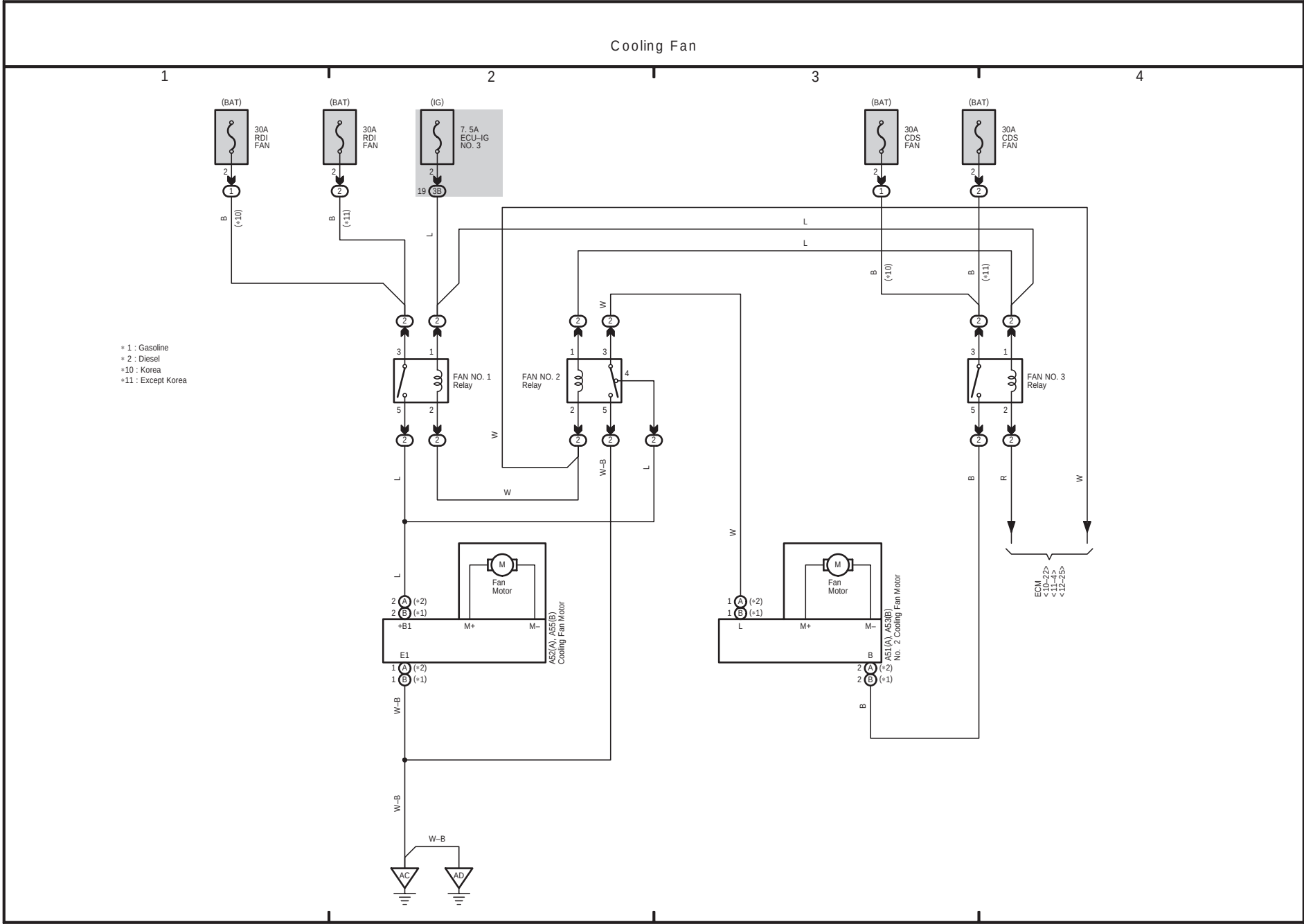
- * 1 : Radio Receiver Type
- * 2 : Navigation Receiver Type
- * 3 : Radio & Display Receiver Type
- * 6 : w/ Parking Assist (Back Guide Monitor or Rear View Monitor)
- * 7 : 4 Speaker
- * 8 : 6 Speaker

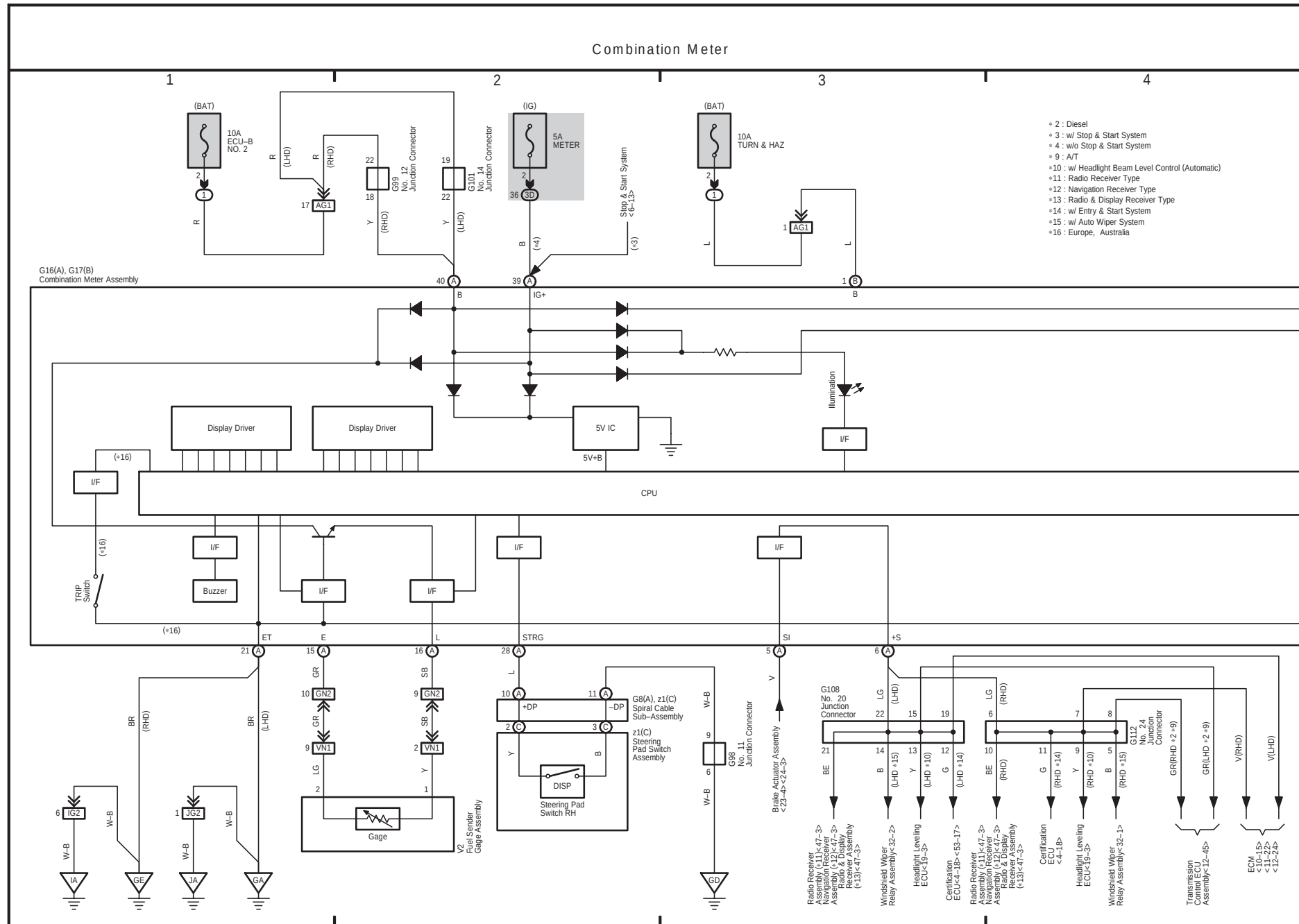
N22
No. 31 Junction Connector

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Combination Meter

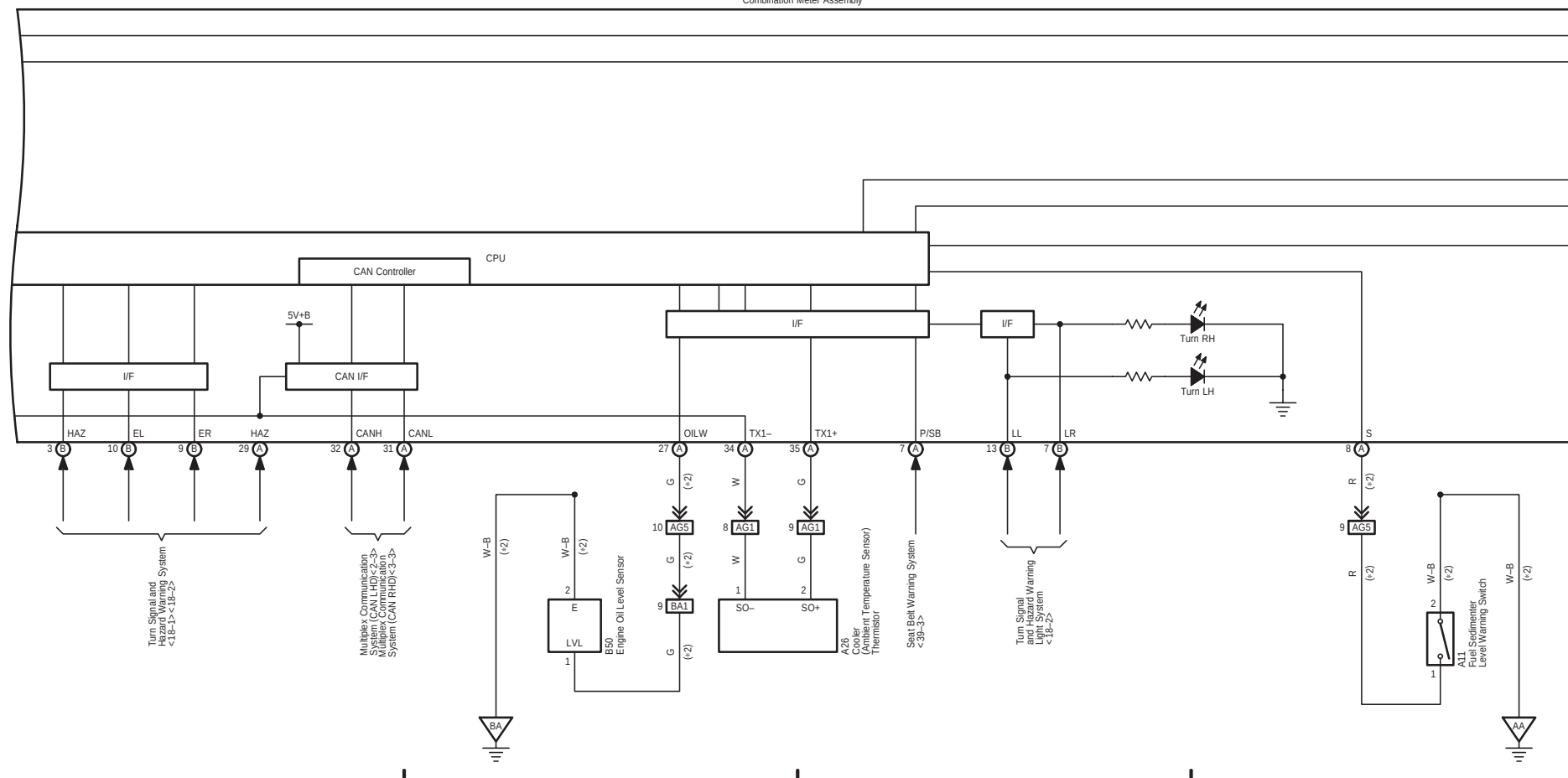
5

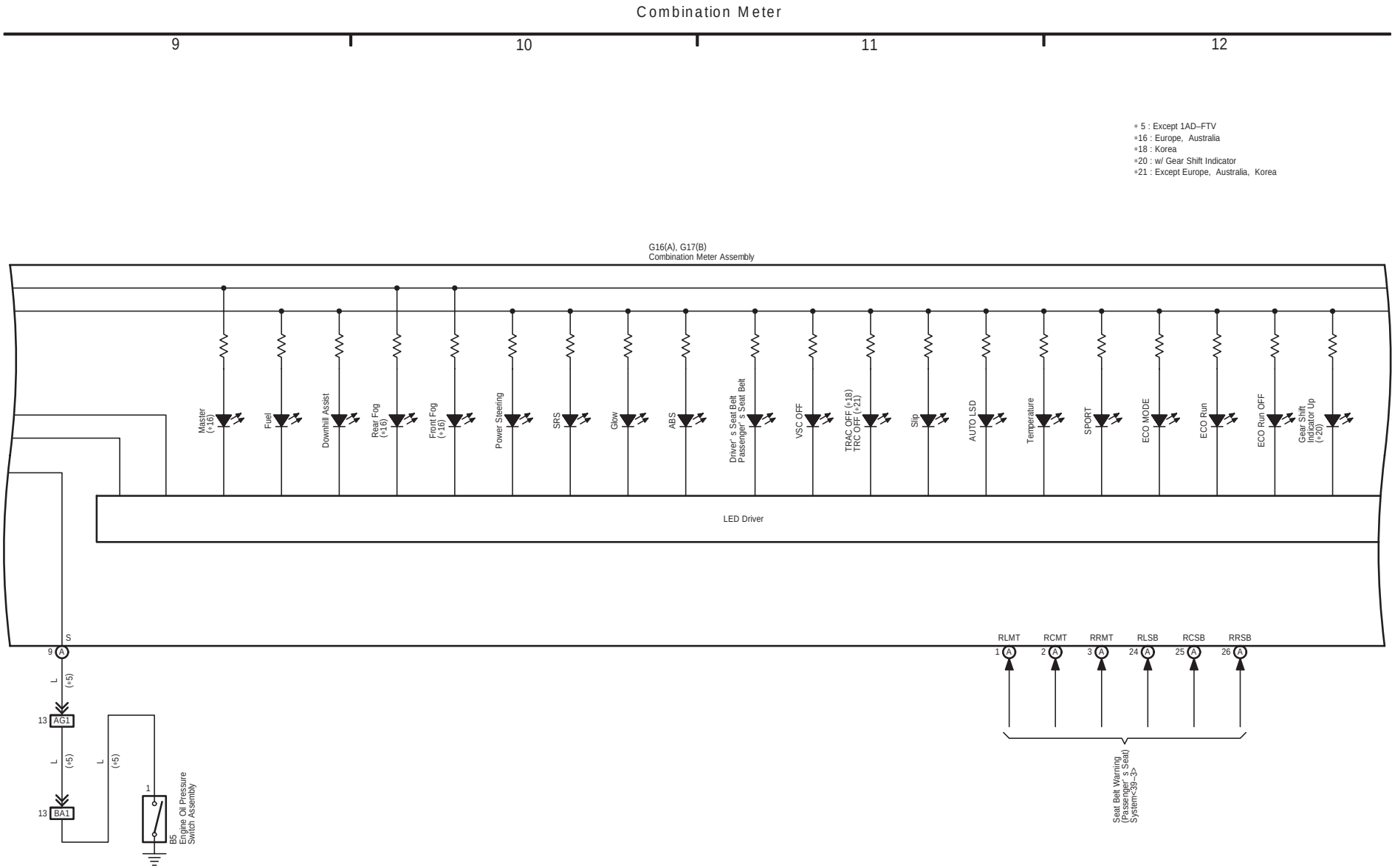
6

7

8

* 2 : Diesel

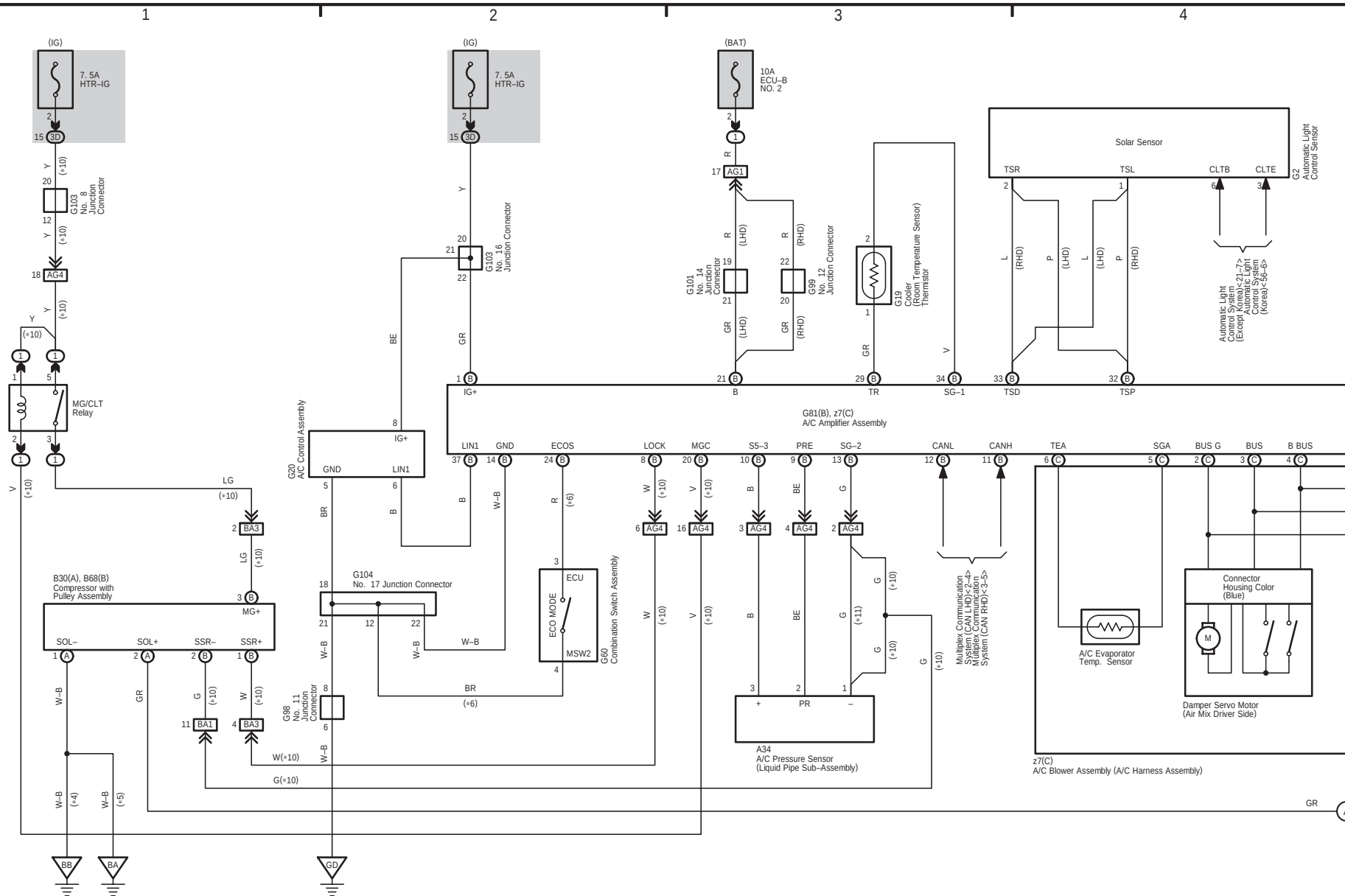
G16(A), G17(B)
Combination Meter Assembly





Automatic Air Conditioner

- * 4 : 2AR-FE
- * 5 : Except 2AR-FE
- * 6 : w/ ECO MODE Switch
- * 10 : Korea
- * 11 : Except Korea



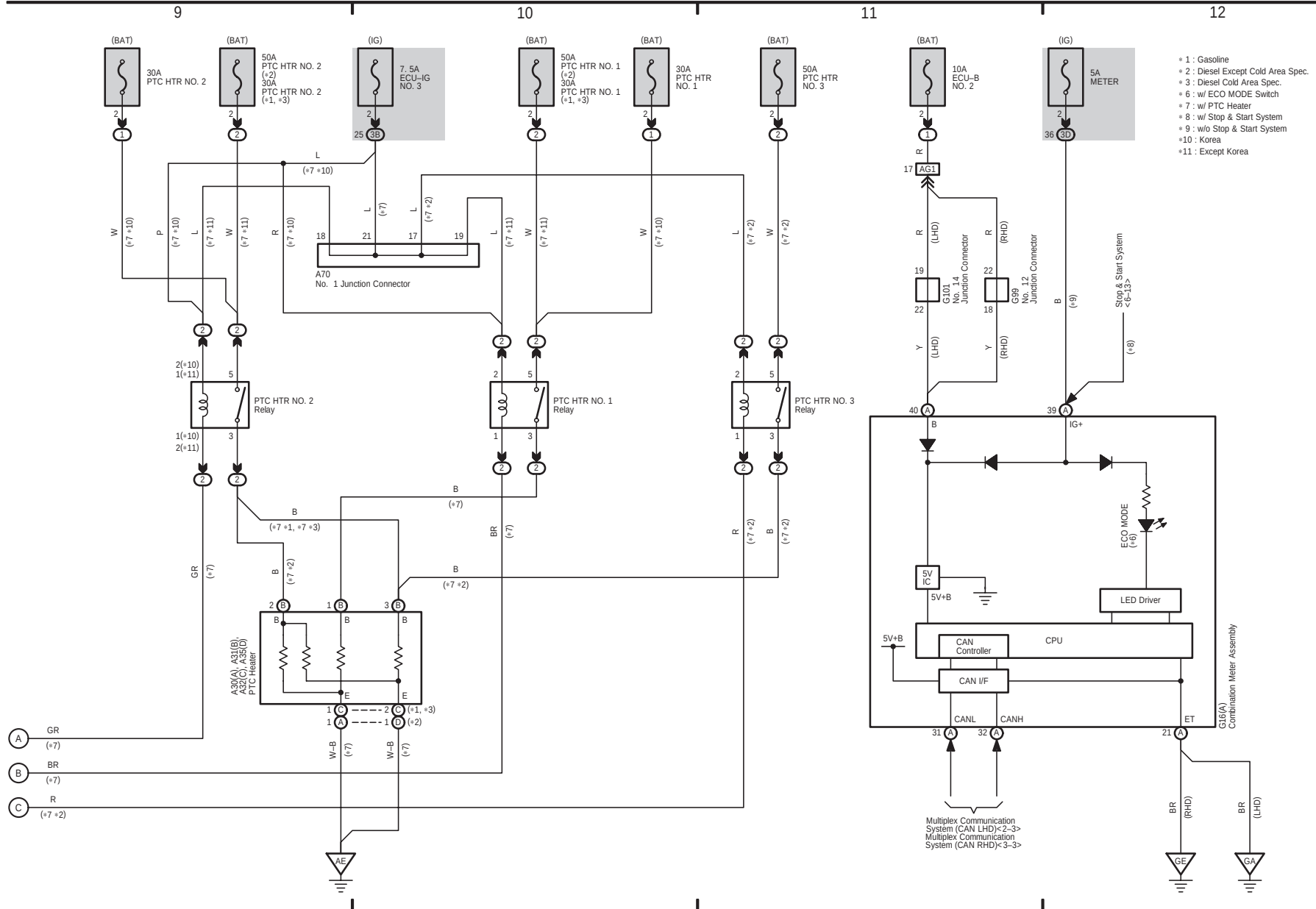
* 2 : Diesel Except Cold Area Spec.
* 7 : w/ PTC Heater

*10 : Korea
*11 : Except Korea



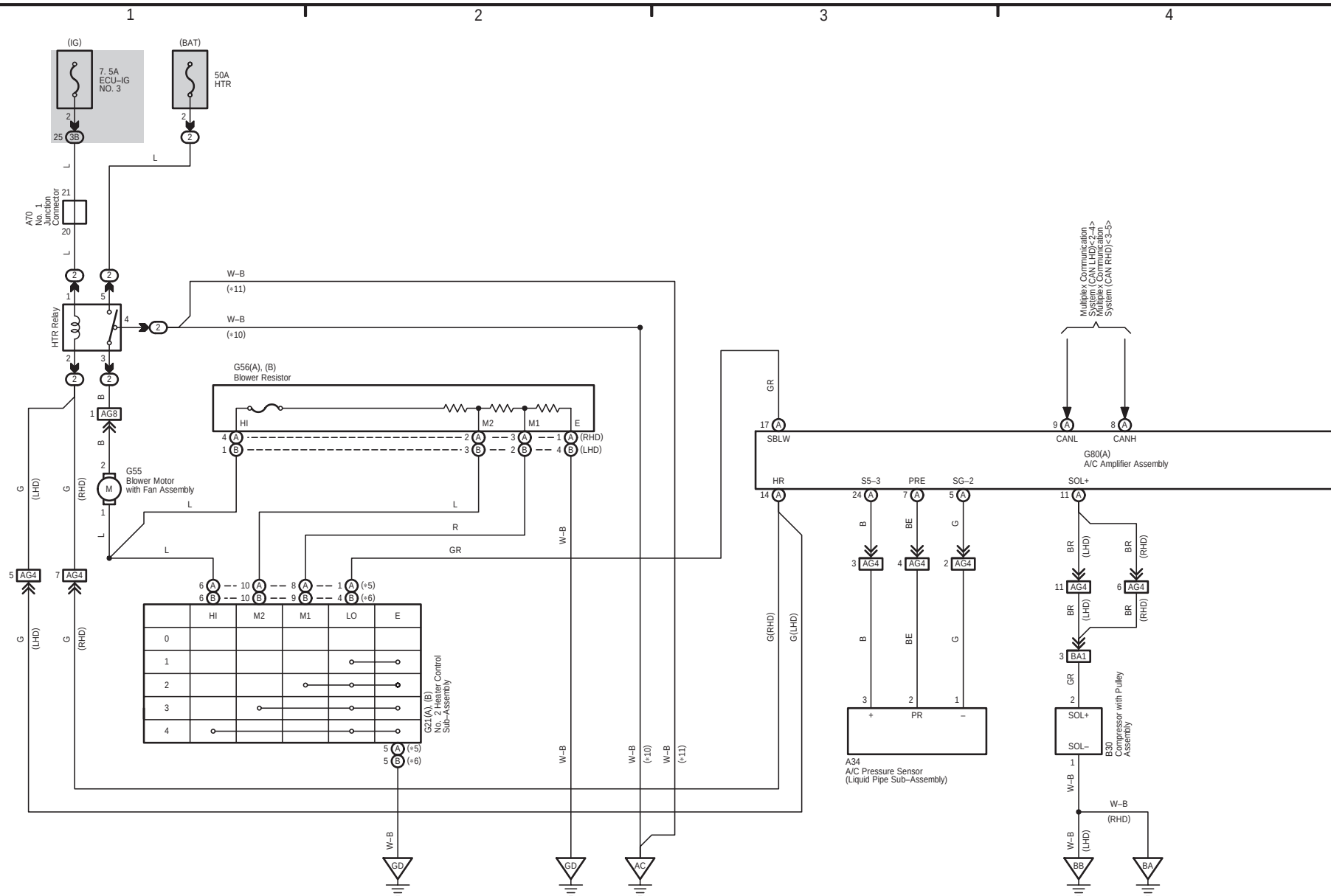
50 TOYOTA RAV4 (Cont' d)

Automatic Air Conditioner



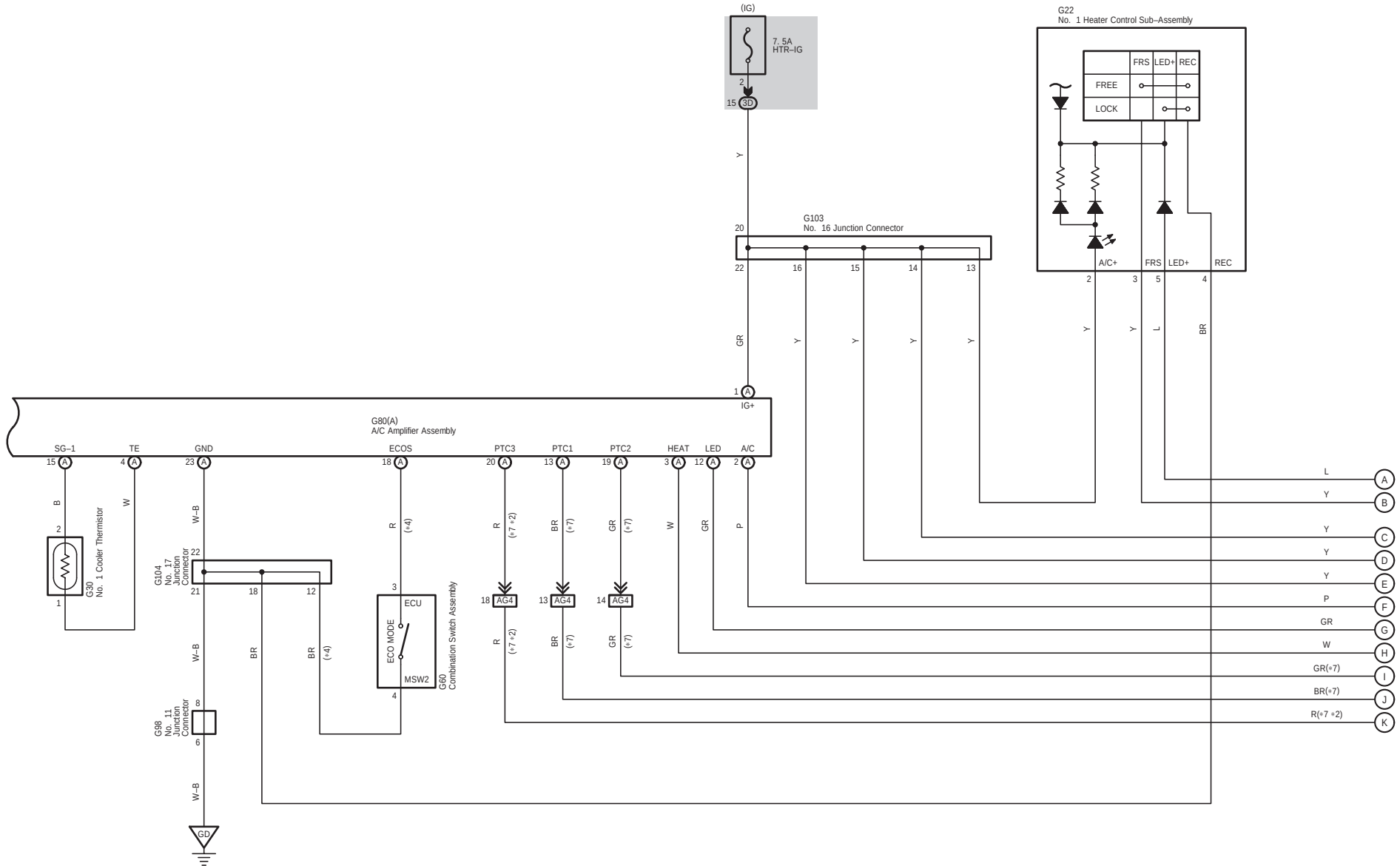
Manual Air Conditioner

- * 5 : Australia, Middle East
- * 6 : Except *5
- *10 : w/ Security Horn
- *11 : w/o Security Horn



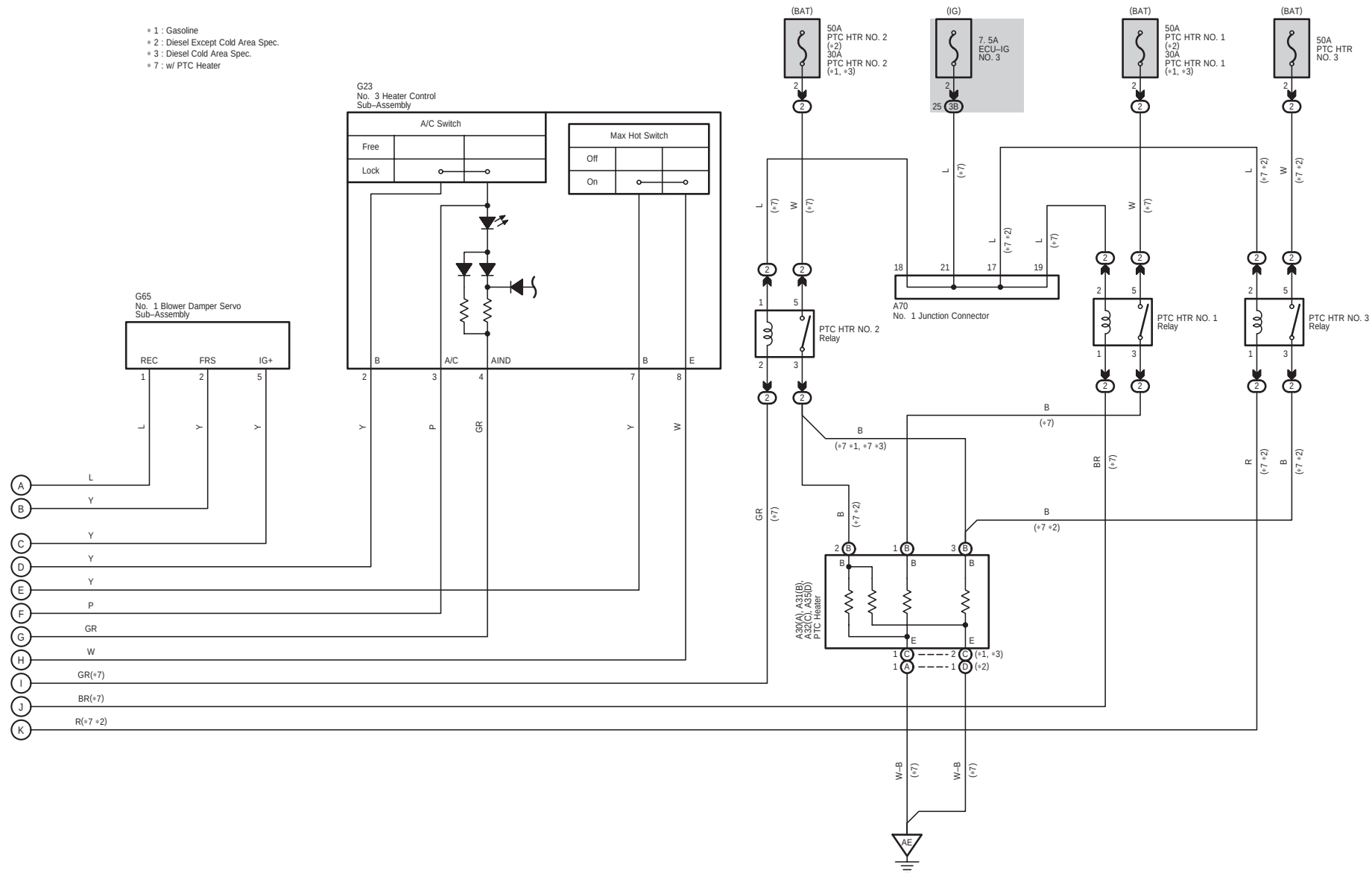
Manual Air Conditioner

- * 2 : Diesel Except Cold Area Spec.
- * 4 : w/ ECO MODE Switch
- * 7 : w/ PTC Heater



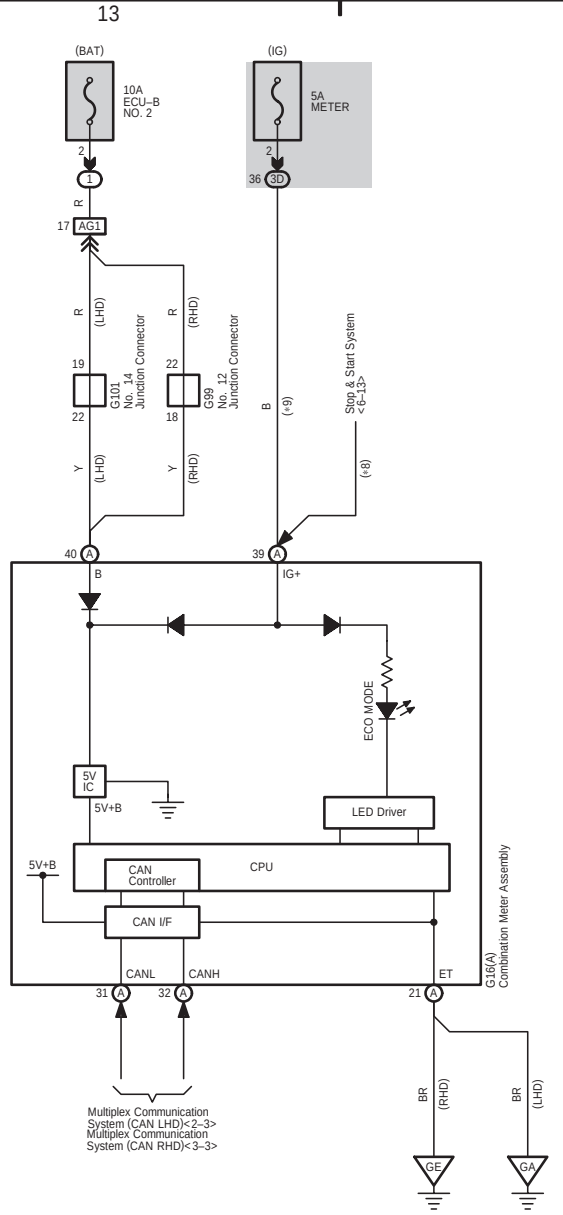
Manual Air Conditioner

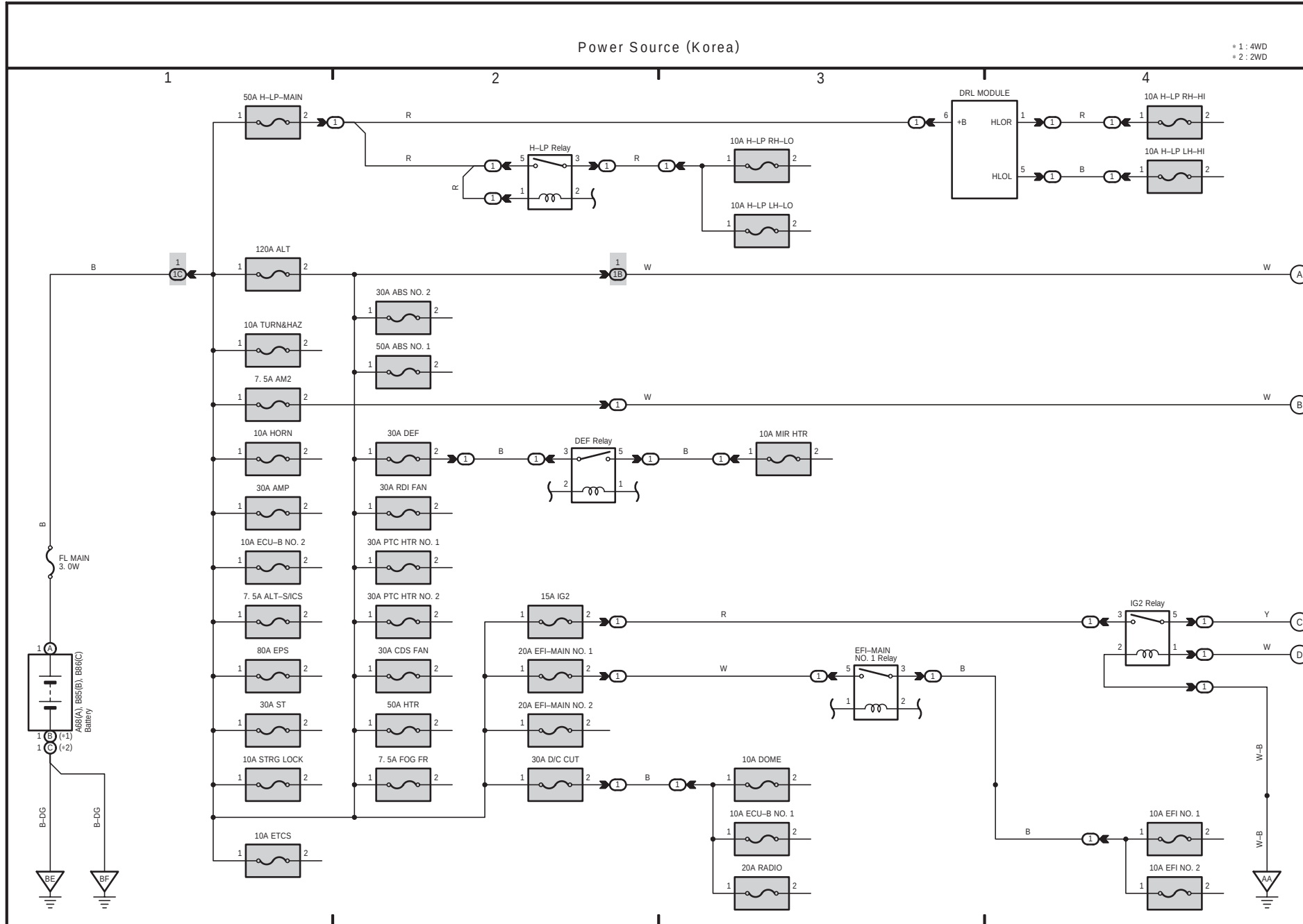
- * 1 : Gasoline
- * 2 : Diesel Except Cold Area Spec.
- * 3 : Diesel Cold Area Spec.
- * 7 : w/ PTC Heater



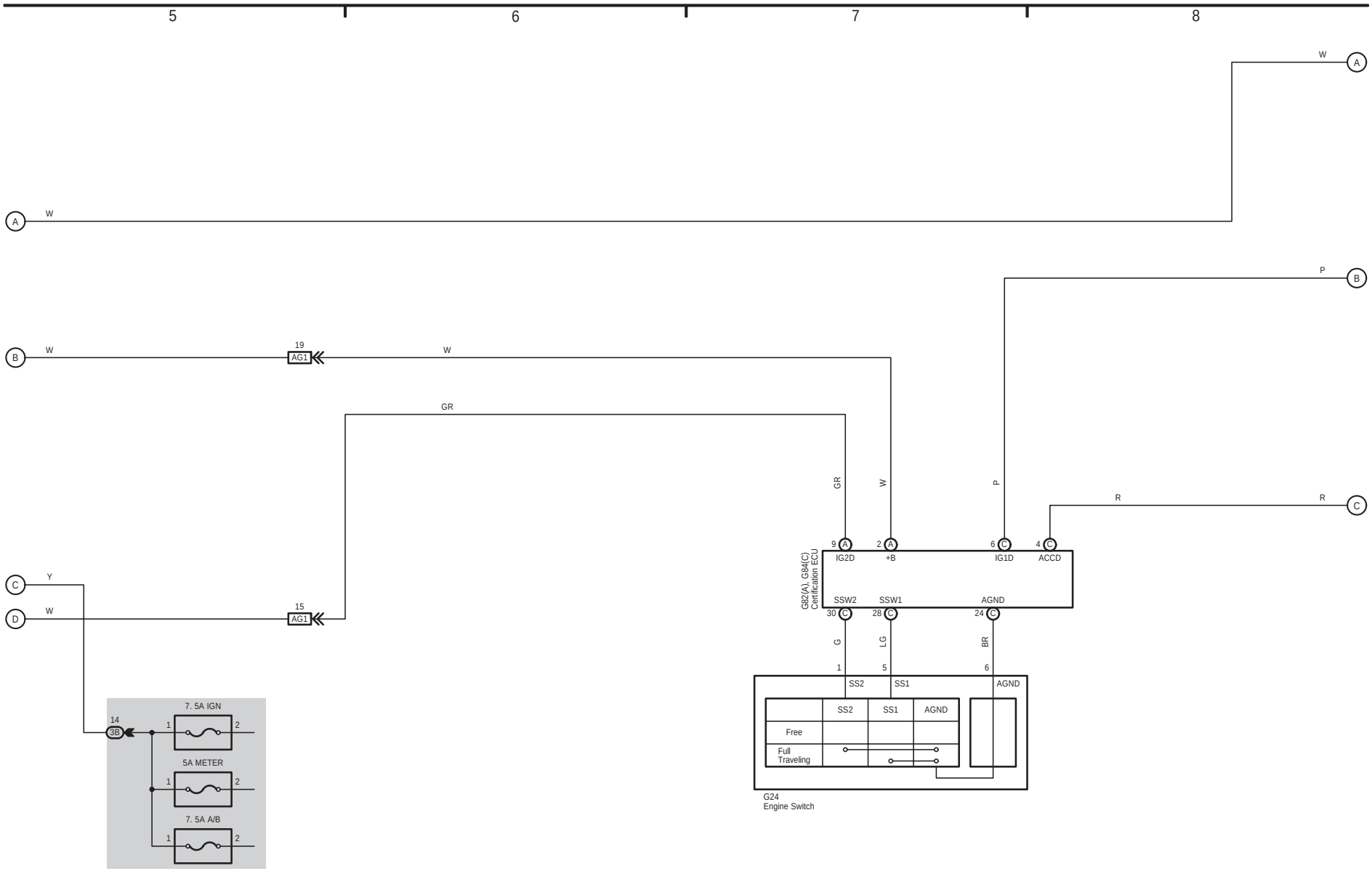
Manual Air Conditioner

* 8 : w/ Stop & Start System
* 9 : w/o Stop & Start System



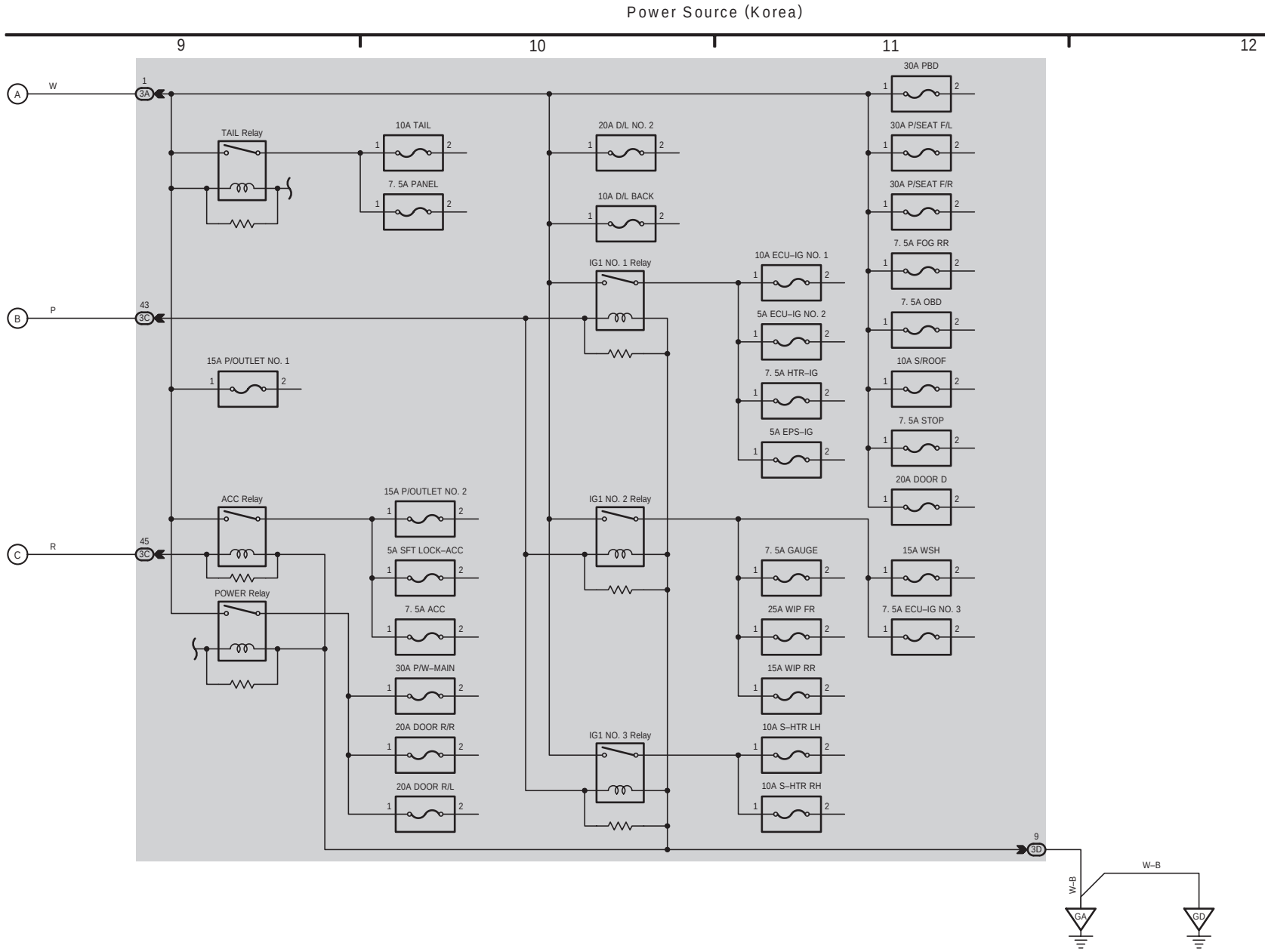


Power Source (Korea)



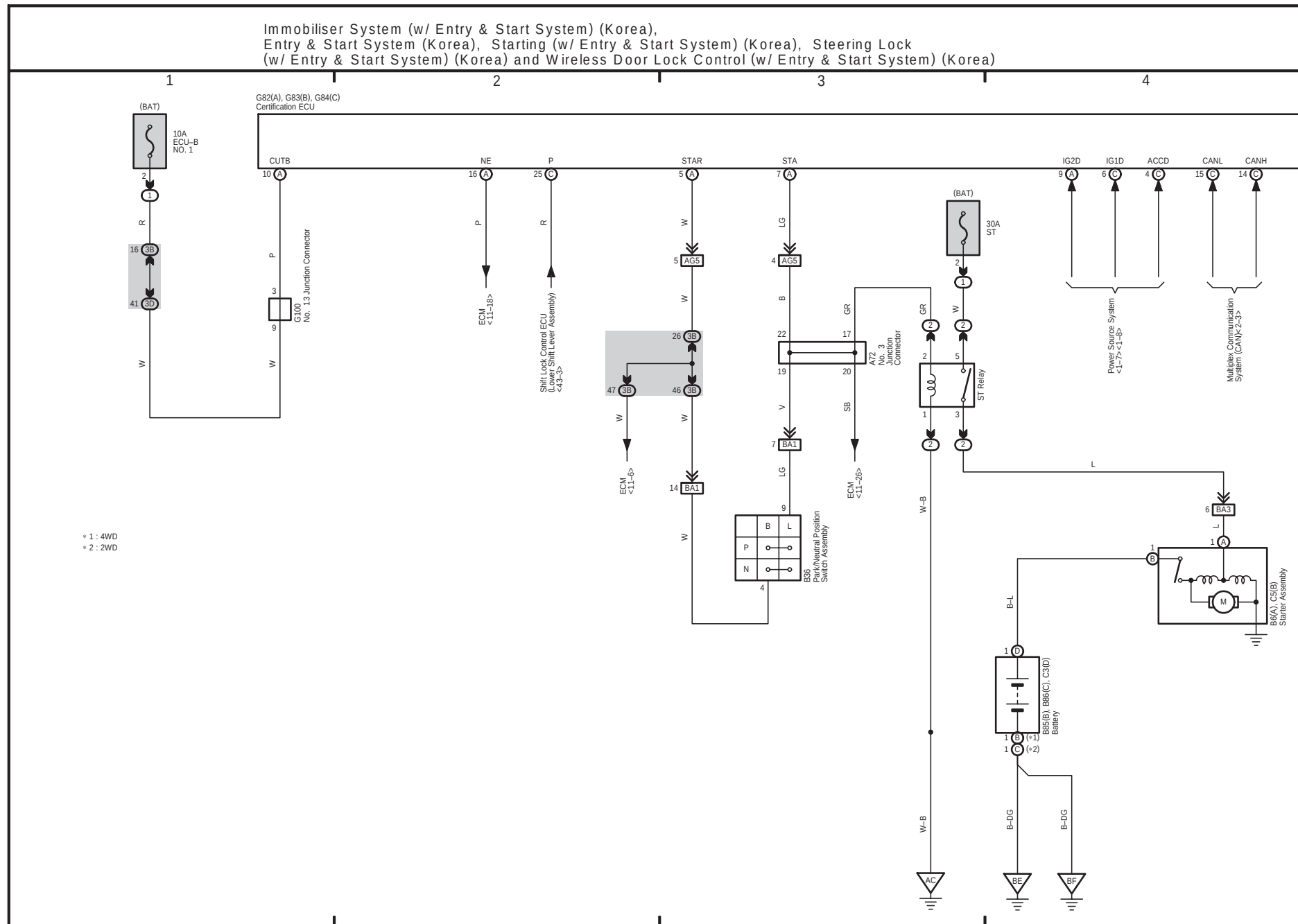
TOYOTA RAV4 (EM3090E)

52 TOYOTA RAV4 (Cont' d)

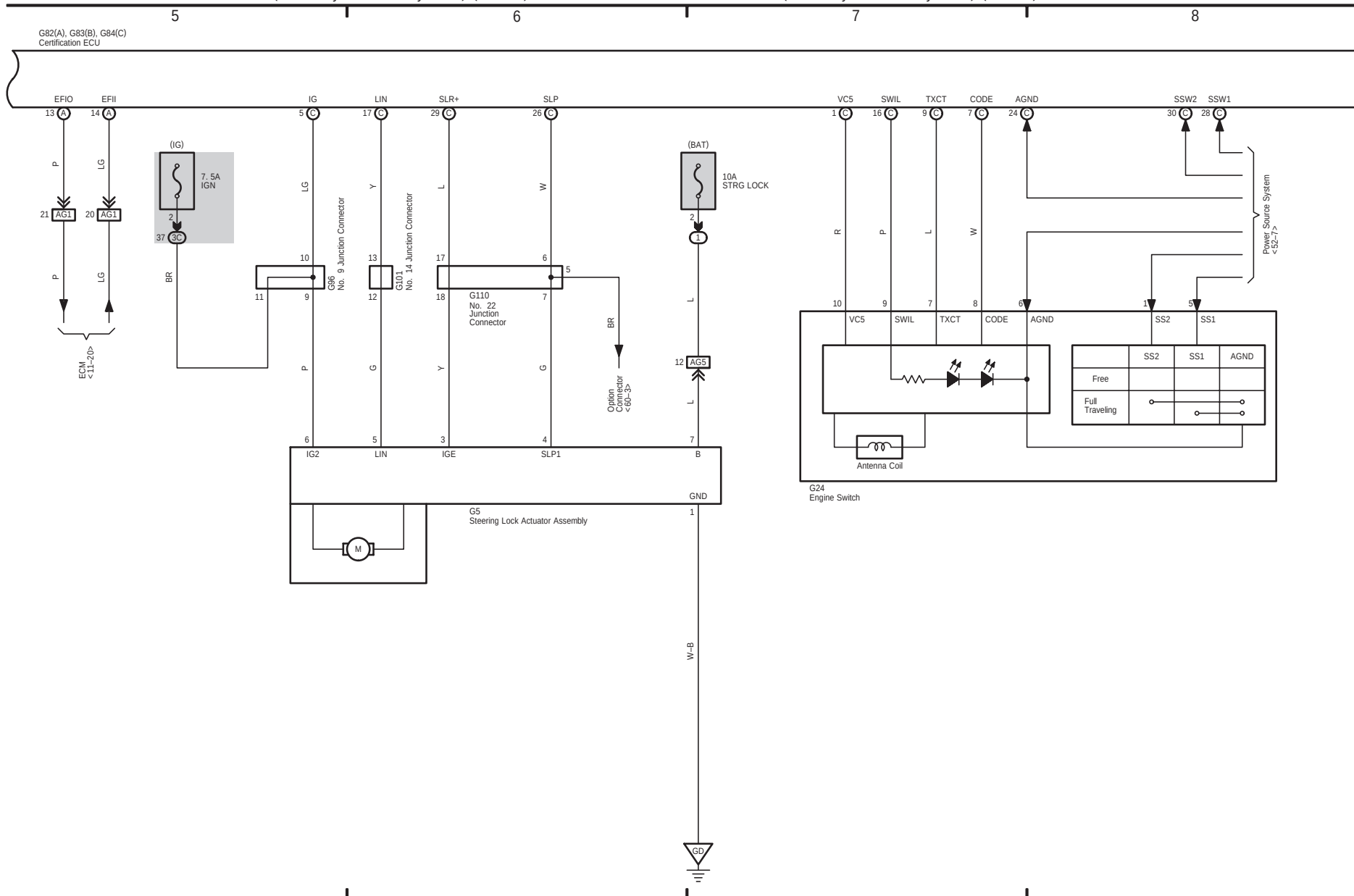


TOYOTA RAV4 (EM3090E)

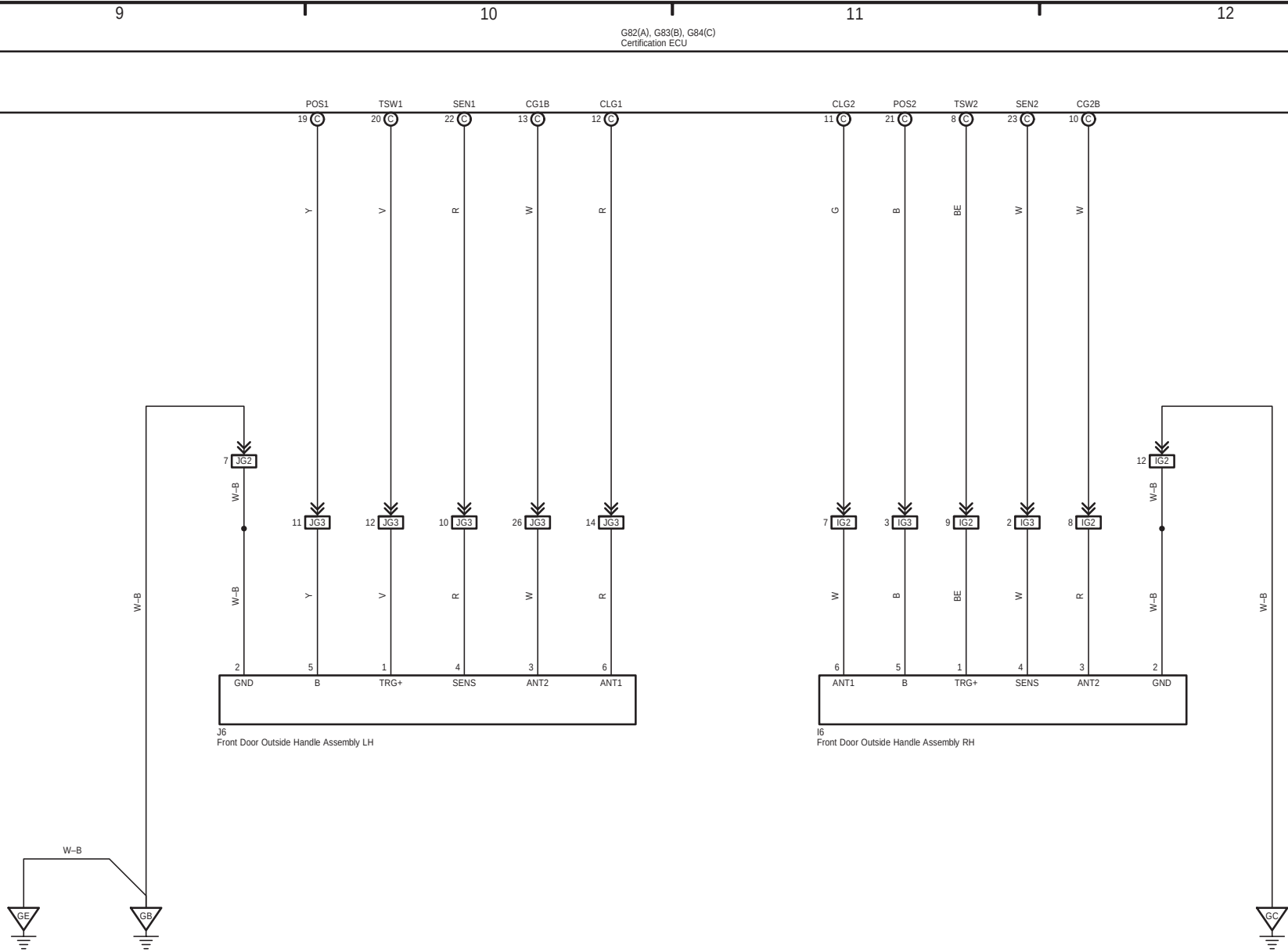
TOYOTA RAV4 (EM3090E)



Immobiliser System (w/ Entry & Start System) (Korea),
Entry & Start System (Korea), Starting (w/ Entry & Start System) (Korea), Steering Lock
(w/ Entry & Start System) (Korea) and Wireless Door Lock Control (w/ Entry & Start System) (Korea)



Immobiliser System (w/ Entry & Start System) (Korea),
Entry & Start System (Korea), Starting (w/ Entry & Start System) (Korea), Steering Lock
(w/ Entry & Start System) (Korea) and Wireless Door Lock Control (w/ Entry & Start System) (Korea)



TOYOTA RAV4 (EM3090E)

16

The diagram illustrates the electrical wiring for the rear door opener system. It shows the connections between various components, including indoor electrical key antenna assemblies, a back door opener switch assembly, and a door control receiver.

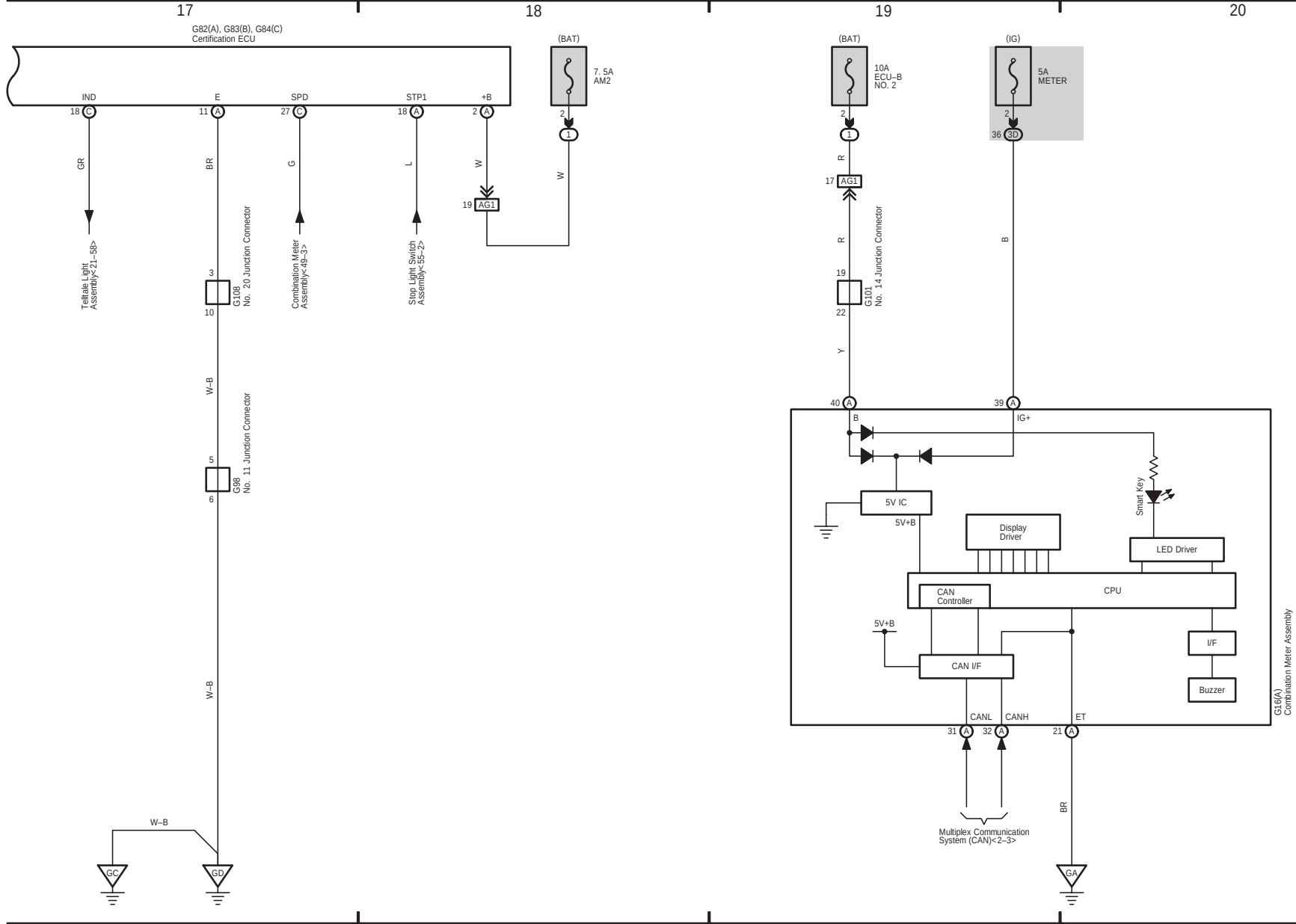
Key Components and Connections:

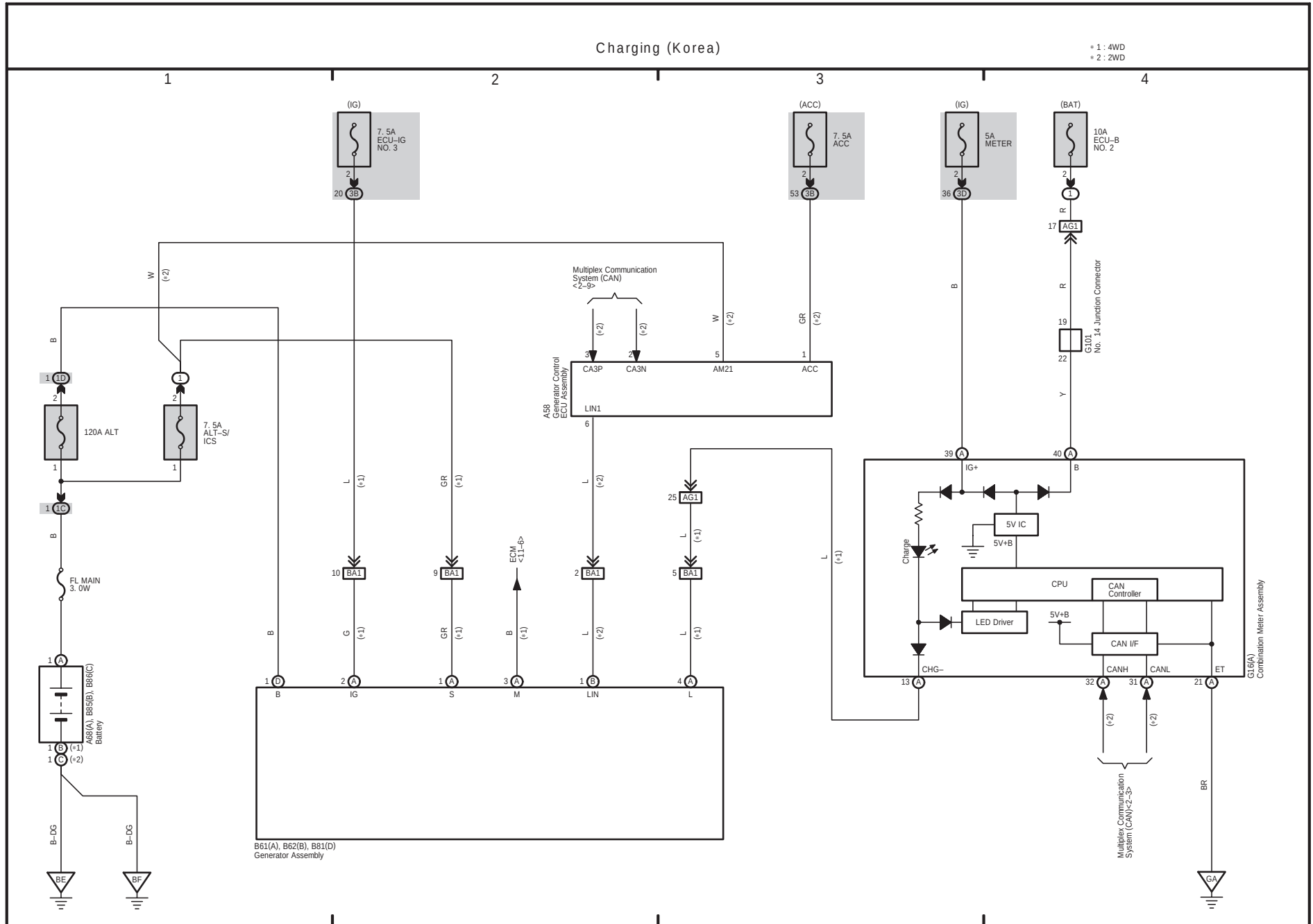
- Indoor Electrical Key Antenna Assemblies:**
 - G45 (No. 1):** Connected to CLG5B (G) and CLG5 (R).
 - T2 (Rear):** Connected to CLG8 (B) and CG8B (W).
 - M21 (No. 3):** Connected to CG7B (B) and CLG7 (W).
 - M18 (No. 2):** Connected to CG6B (B) and CLG6 (W).
- Back Door Opener Switch Assembly (U7):**
 - Connected to TSW6 (L) and TSW5 (Y).
 - Includes a lock switch and an open switch.
- Door Control Receiver (M10A):**
 - Connected to RCO (V), RDAM (Y), and CSEL (R).
 - Includes a +5V supply and a GND connection.

The diagram also shows various ground connections and wire color codes (e.g., G, R, B, W, L, Y, V, R, LG, BR) used throughout the system.

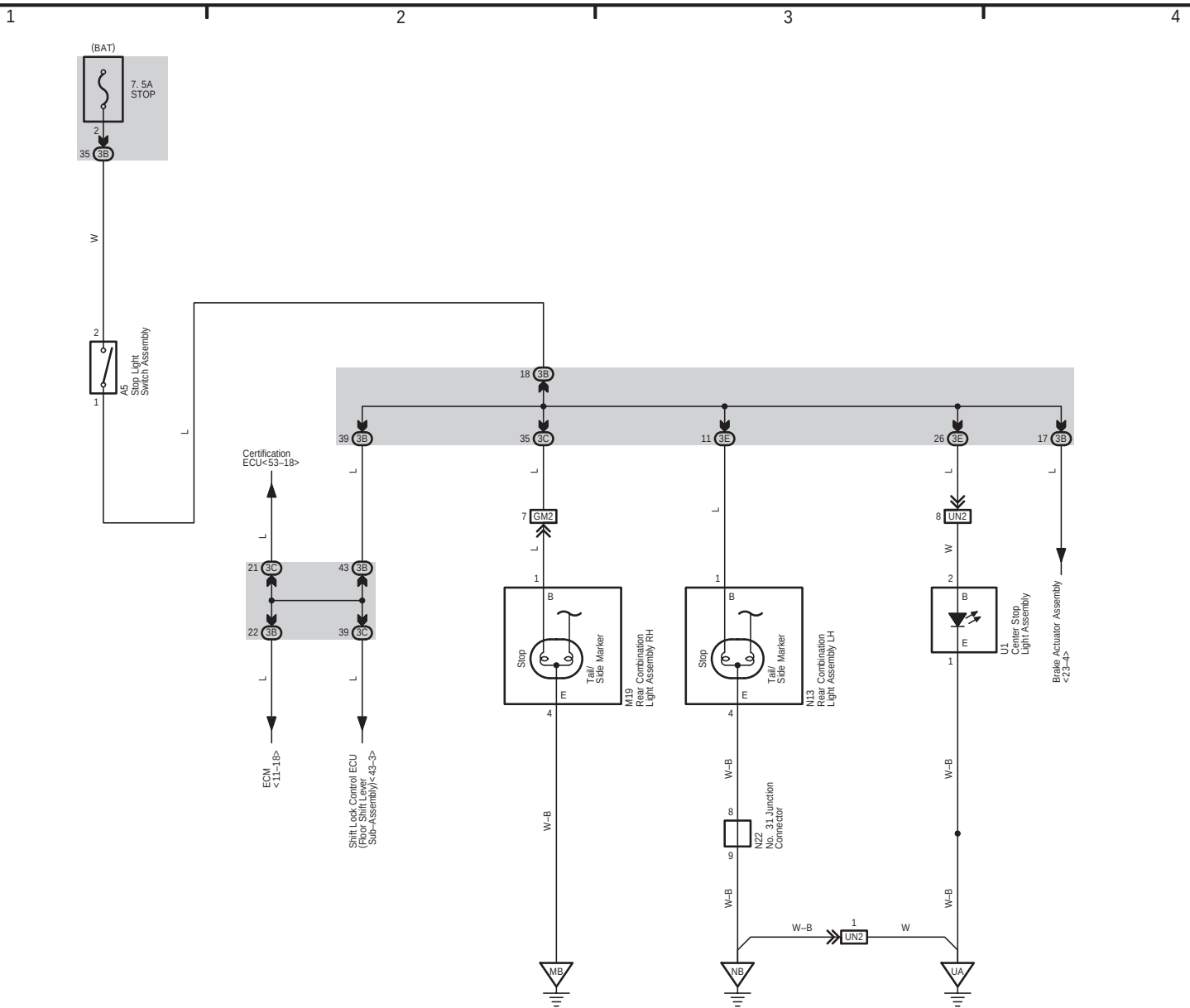
53 TOYOTA RAV4 (Cont' d)

Immobiliser System (w/ Entry & Start System) (Korea),
Entry & Start System (Korea), Starting (w/ Entry & Start System) (Korea), Steering Lock
(w/ Entry & Start System) (Korea) and Wireless Door Lock Control (w/ Entry & Start System) (Korea)

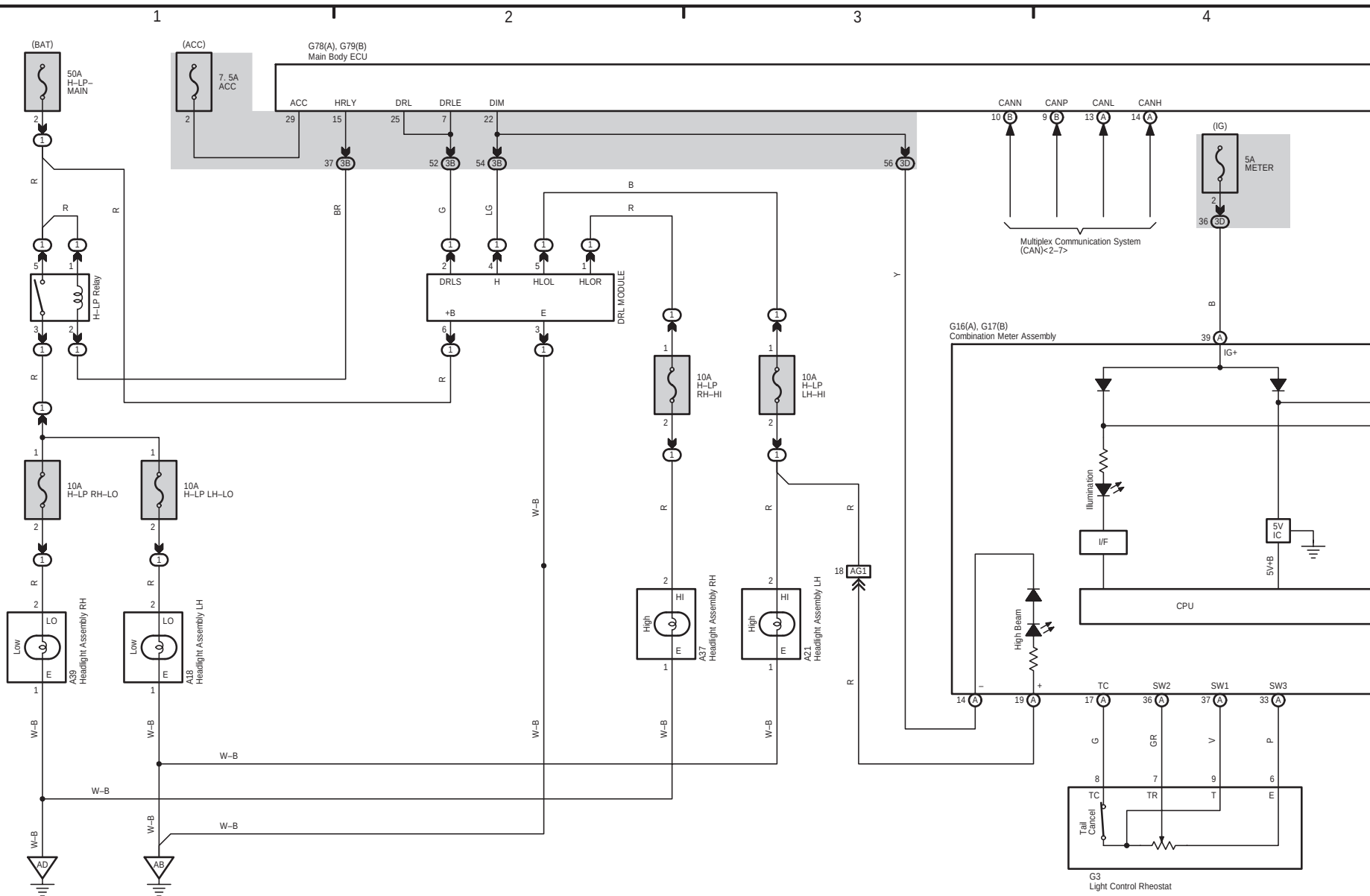




Stop Light (Korea)

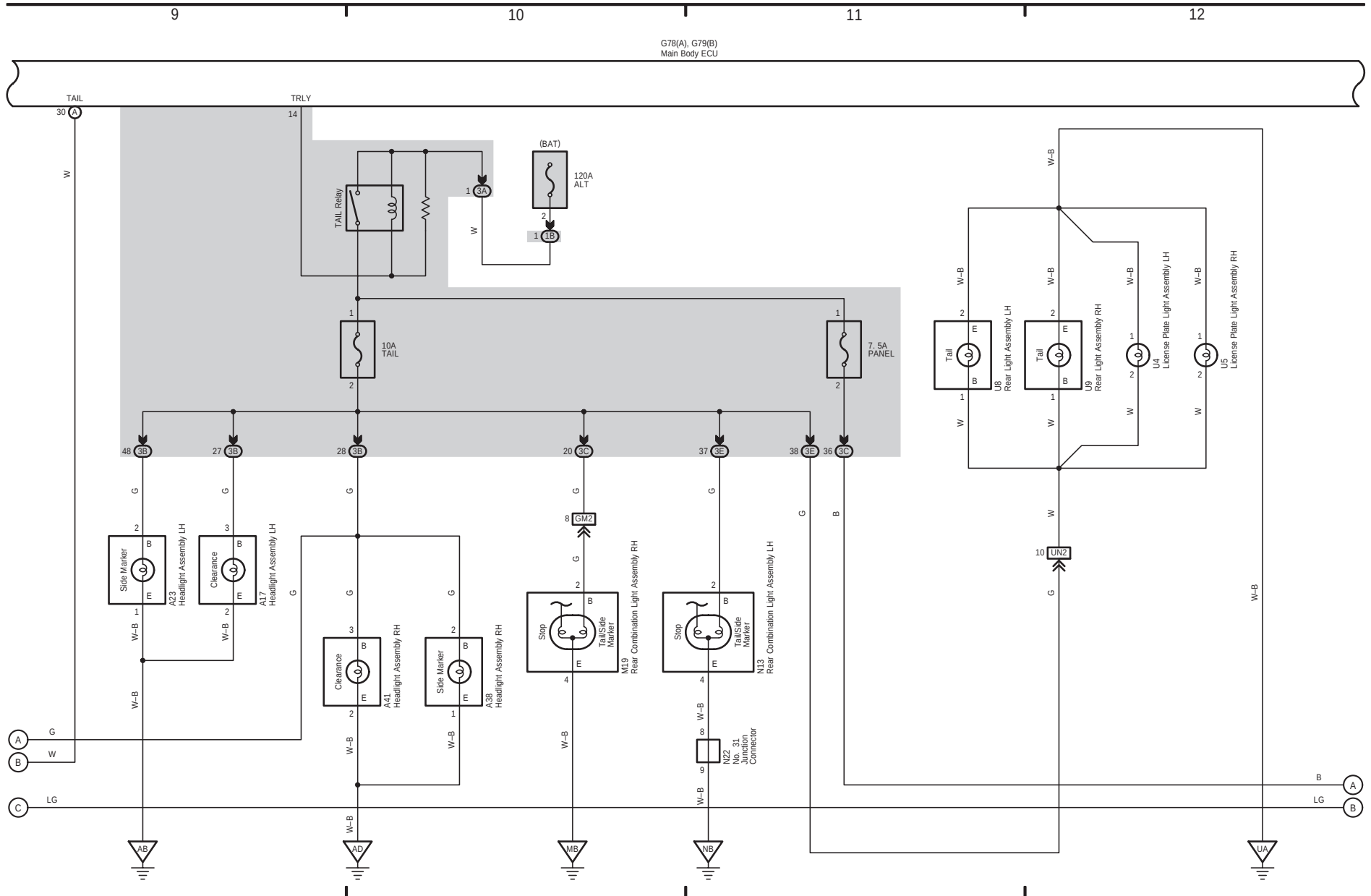


Headlight (Korea)





Taillight (Korea)



Illumination (Korea)

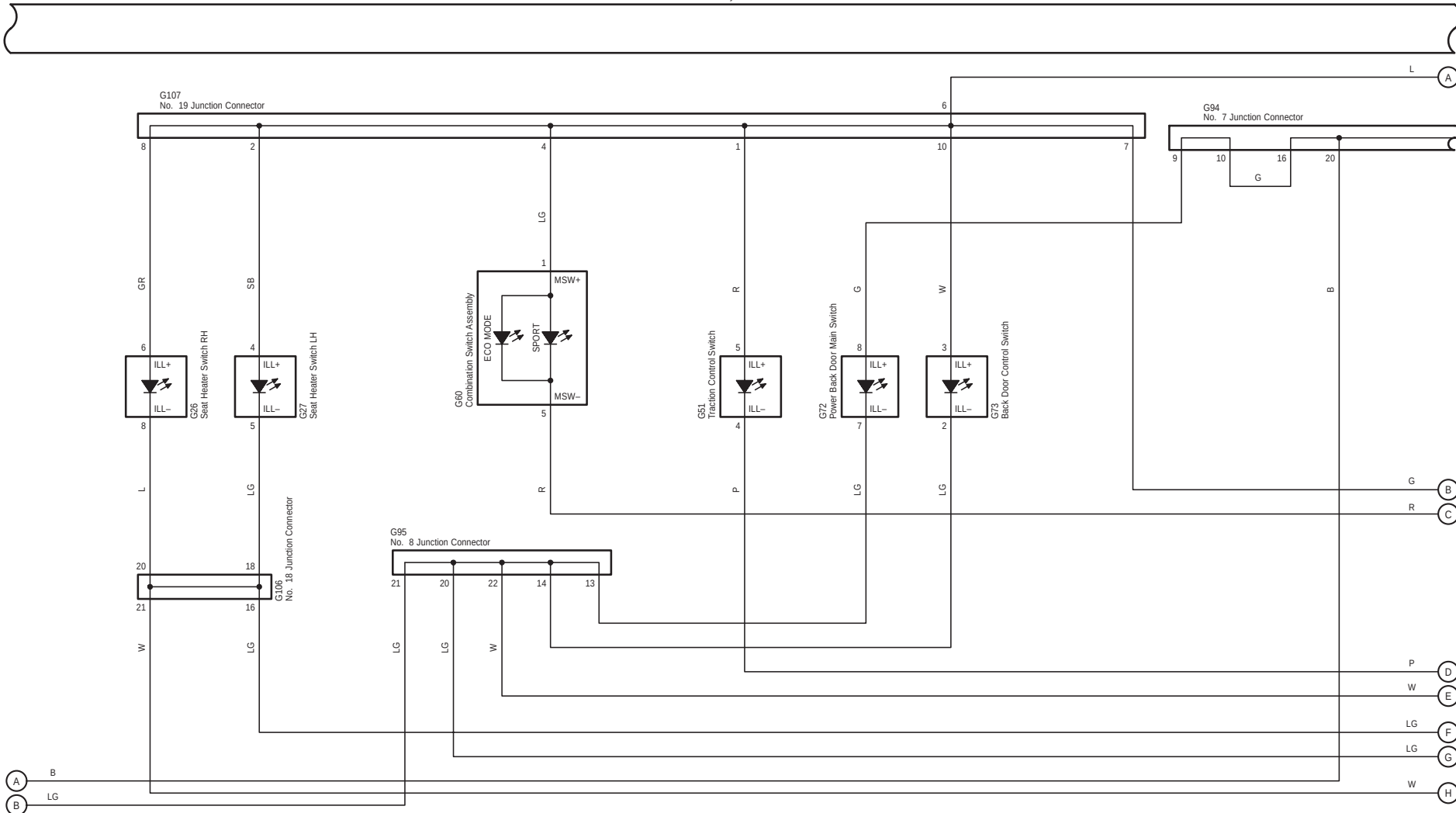
13

14

15

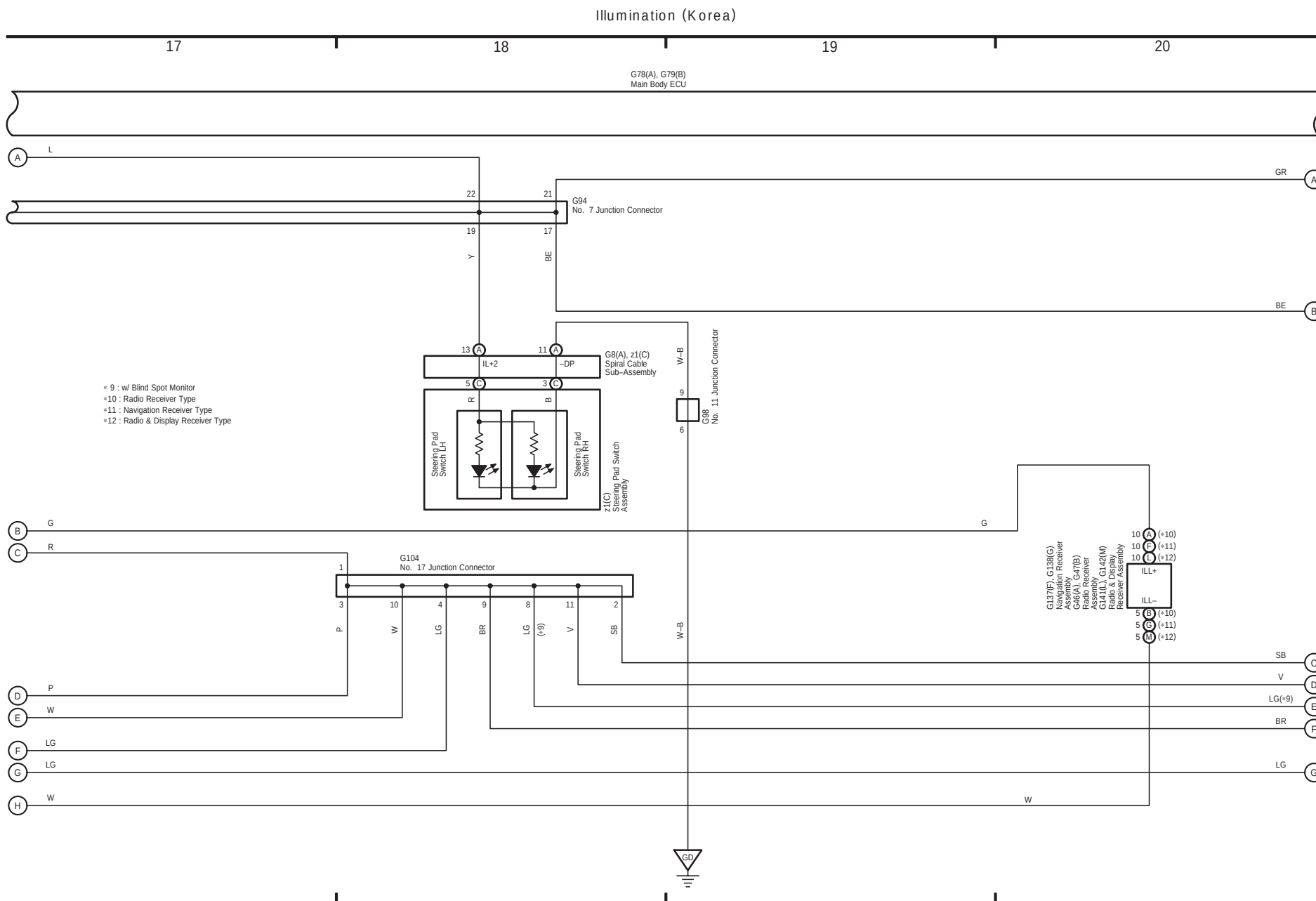
16

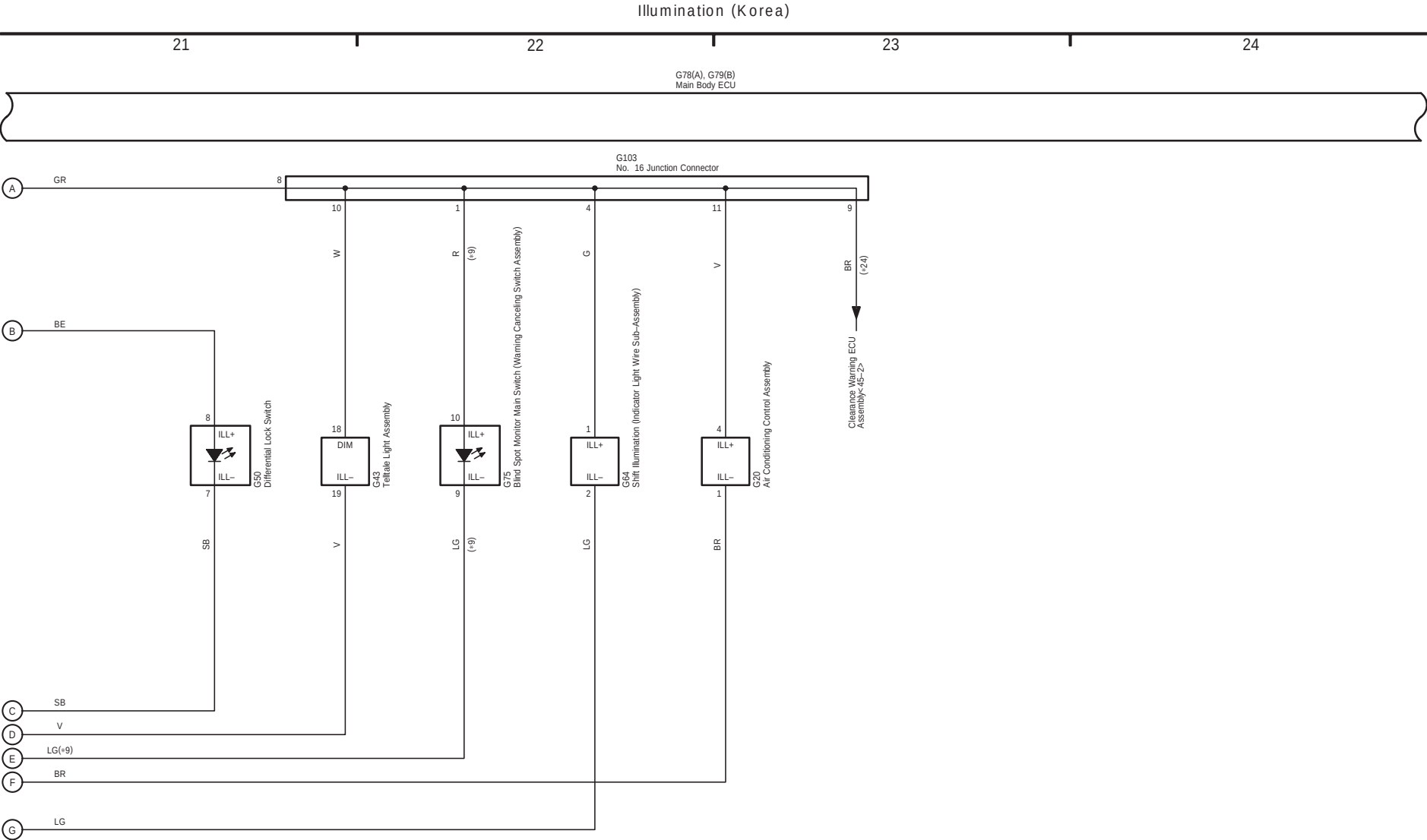
G78(A), G79(B)
Main Body ECU



TOYOTA RAV4 (EM3090E)

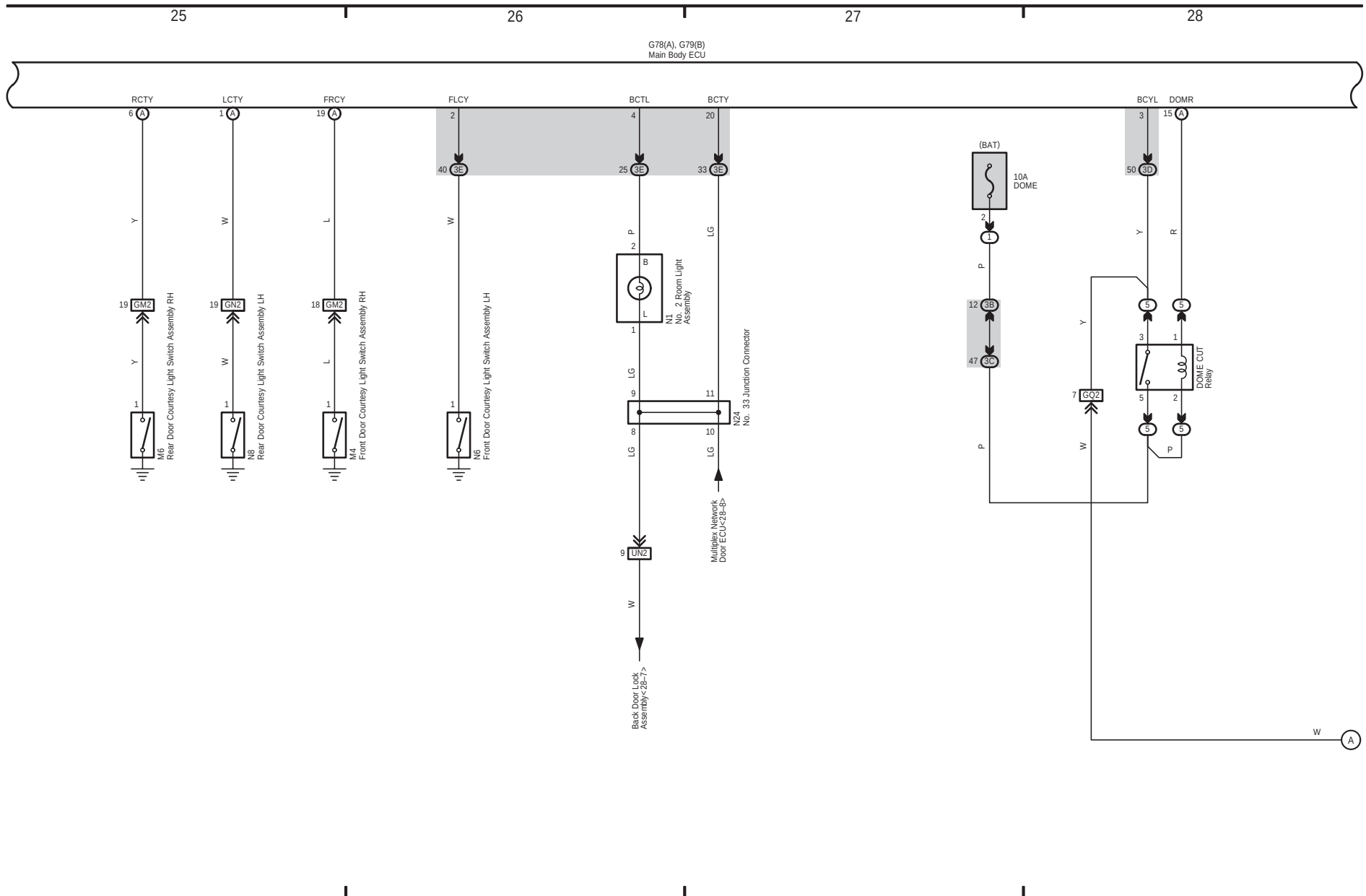
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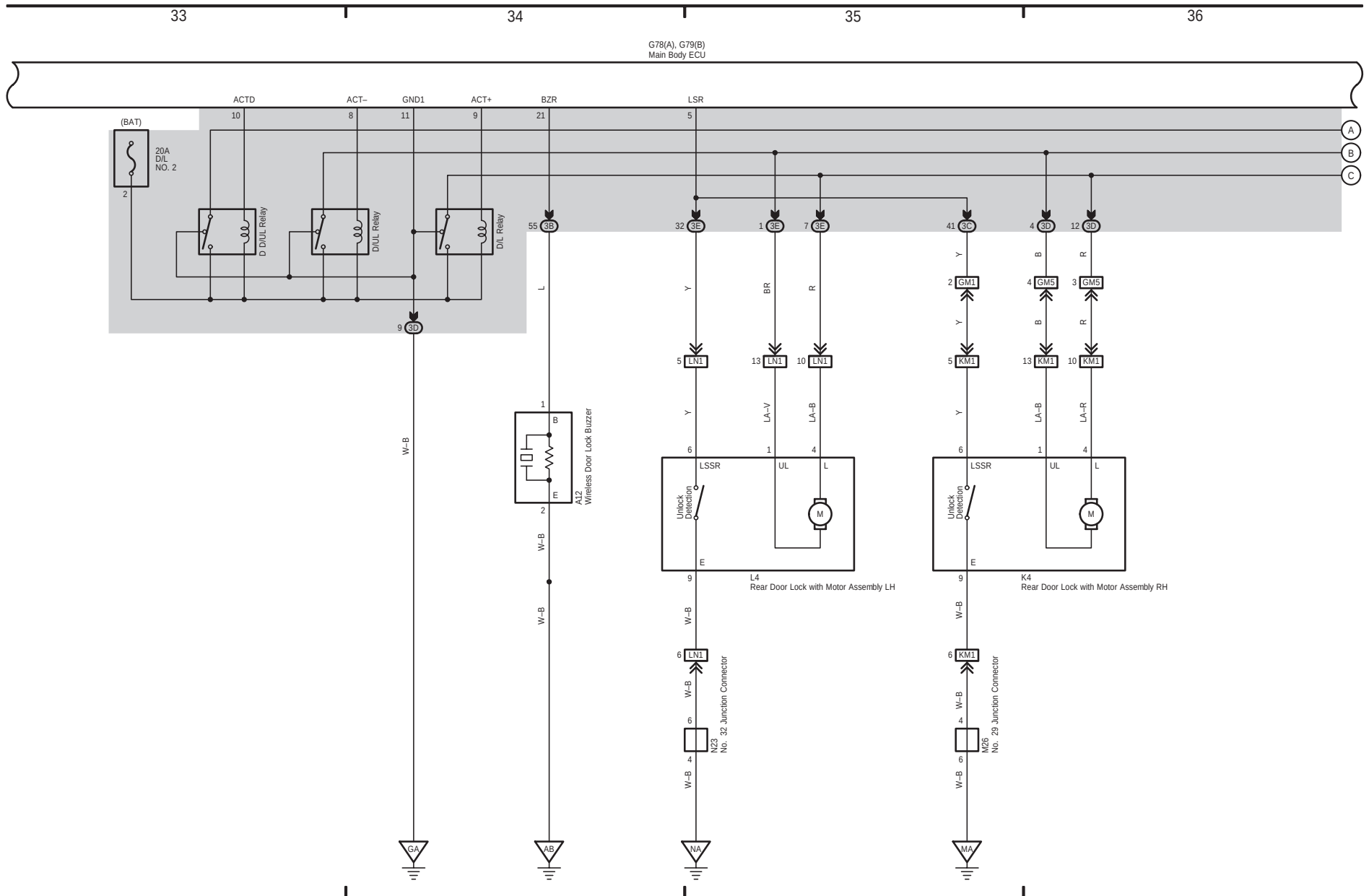
TOYOTA RAV4 (EM3090E)

TOYOTA RAV4 (EM3090E)

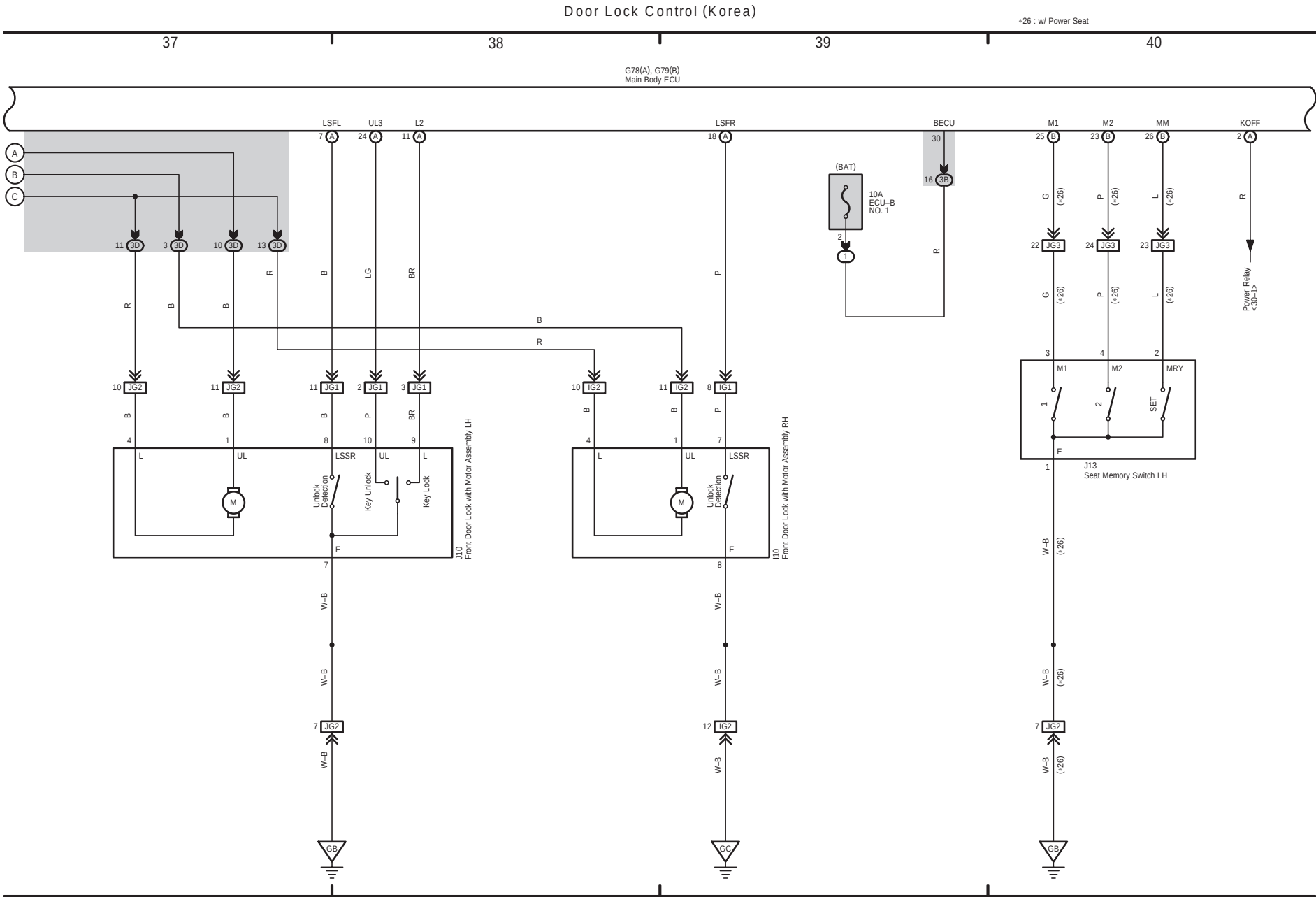




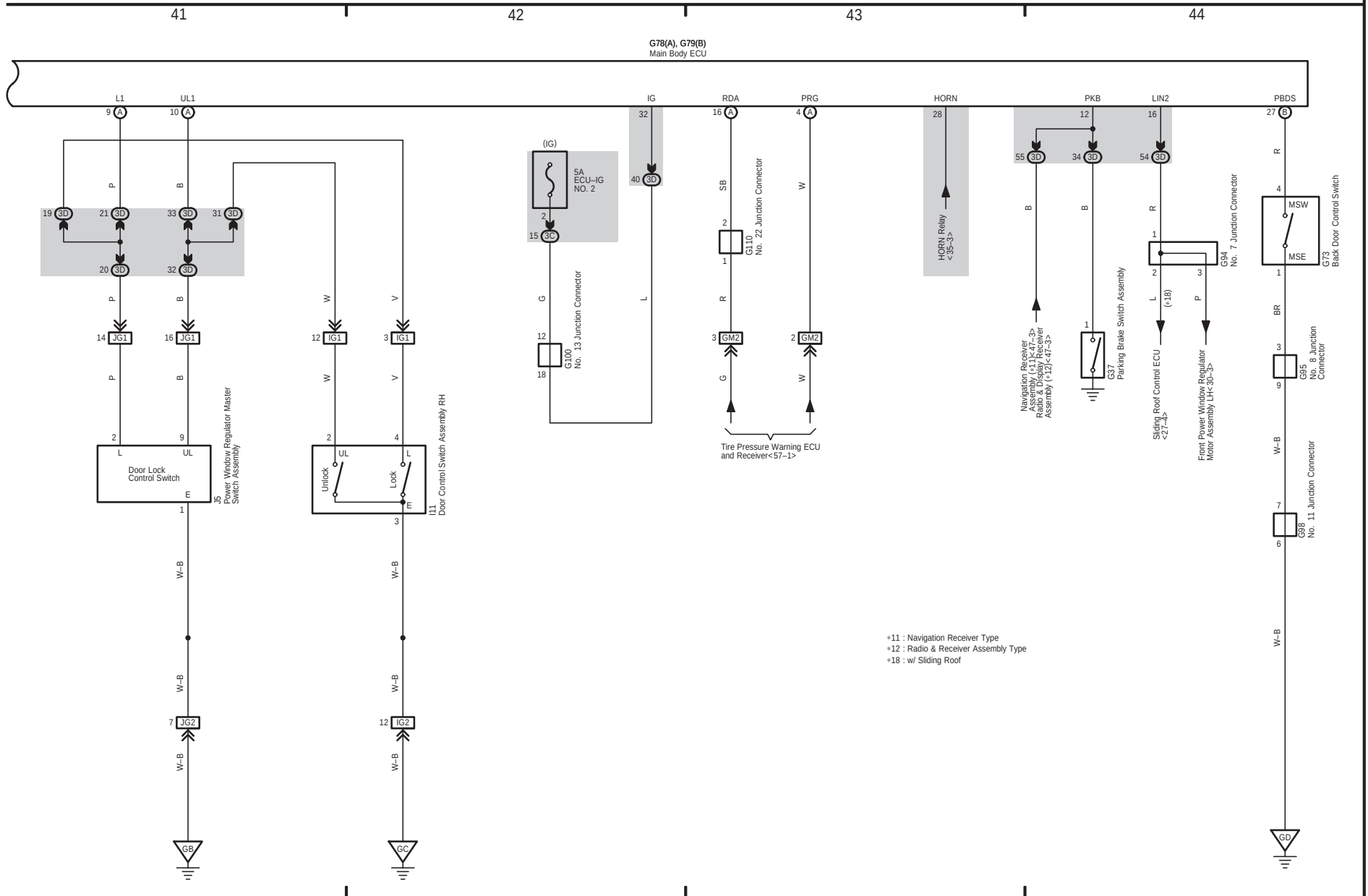
Door Lock Control (Korea)



TOYOTA RAV4 (EM3090E)



Door Lock Control (Korea)

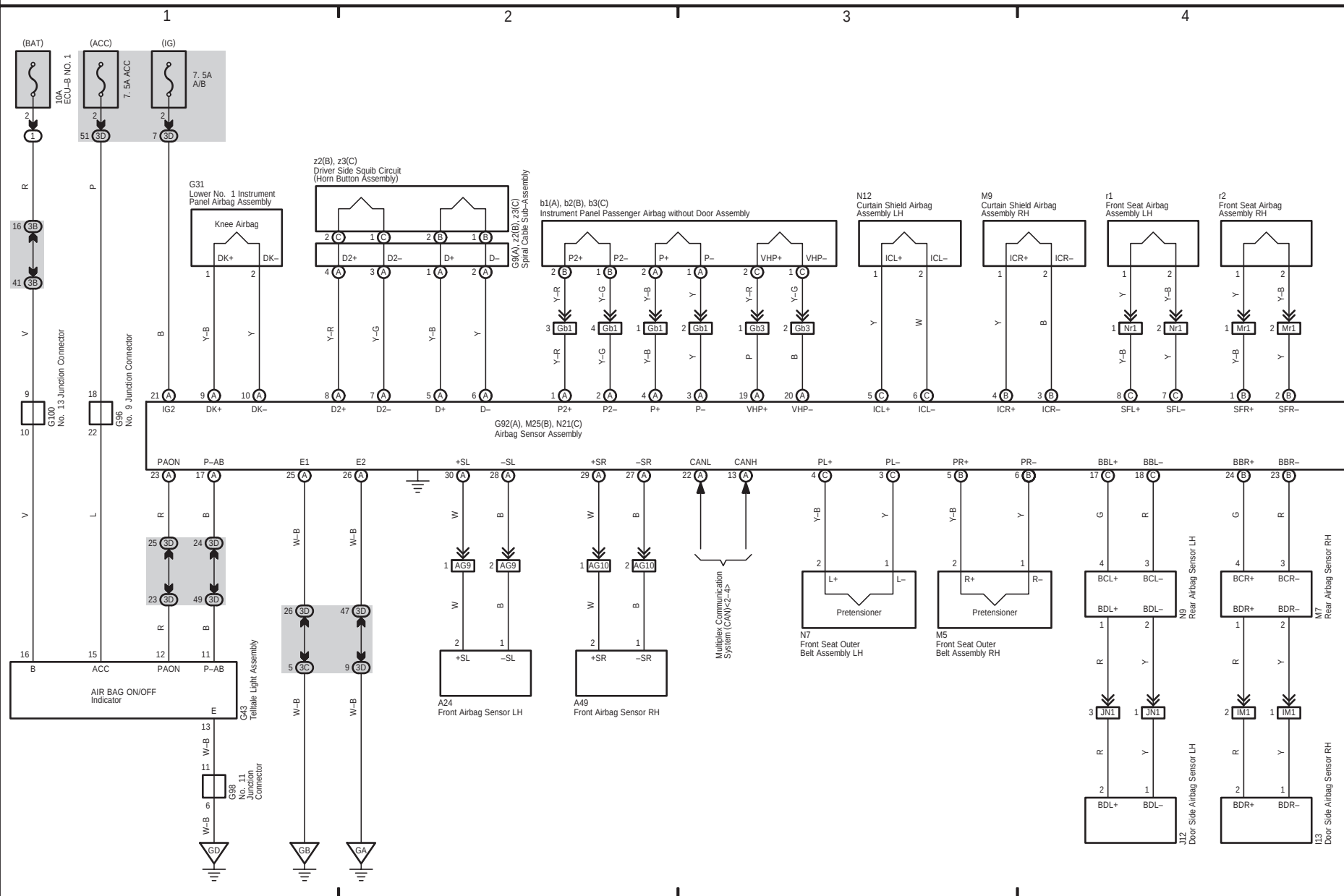


*11 : Navigation Receiver Type
 *12 : Radio & Receiver Assembly Type
 *18 : w/ Sliding Roof

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SRS (Korea)



SRS (Korea)

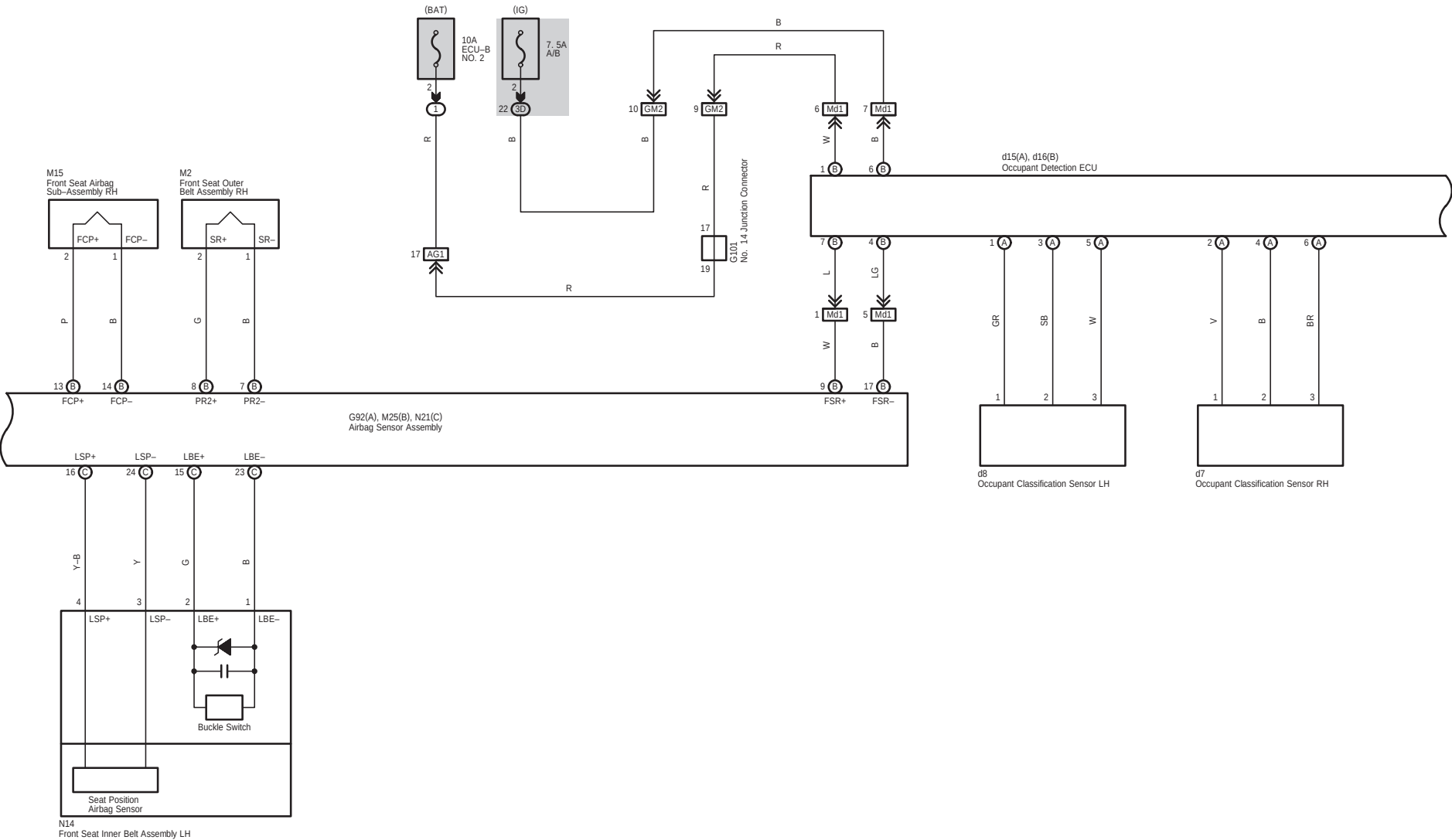
Seat Belt Warning (Korea)

5

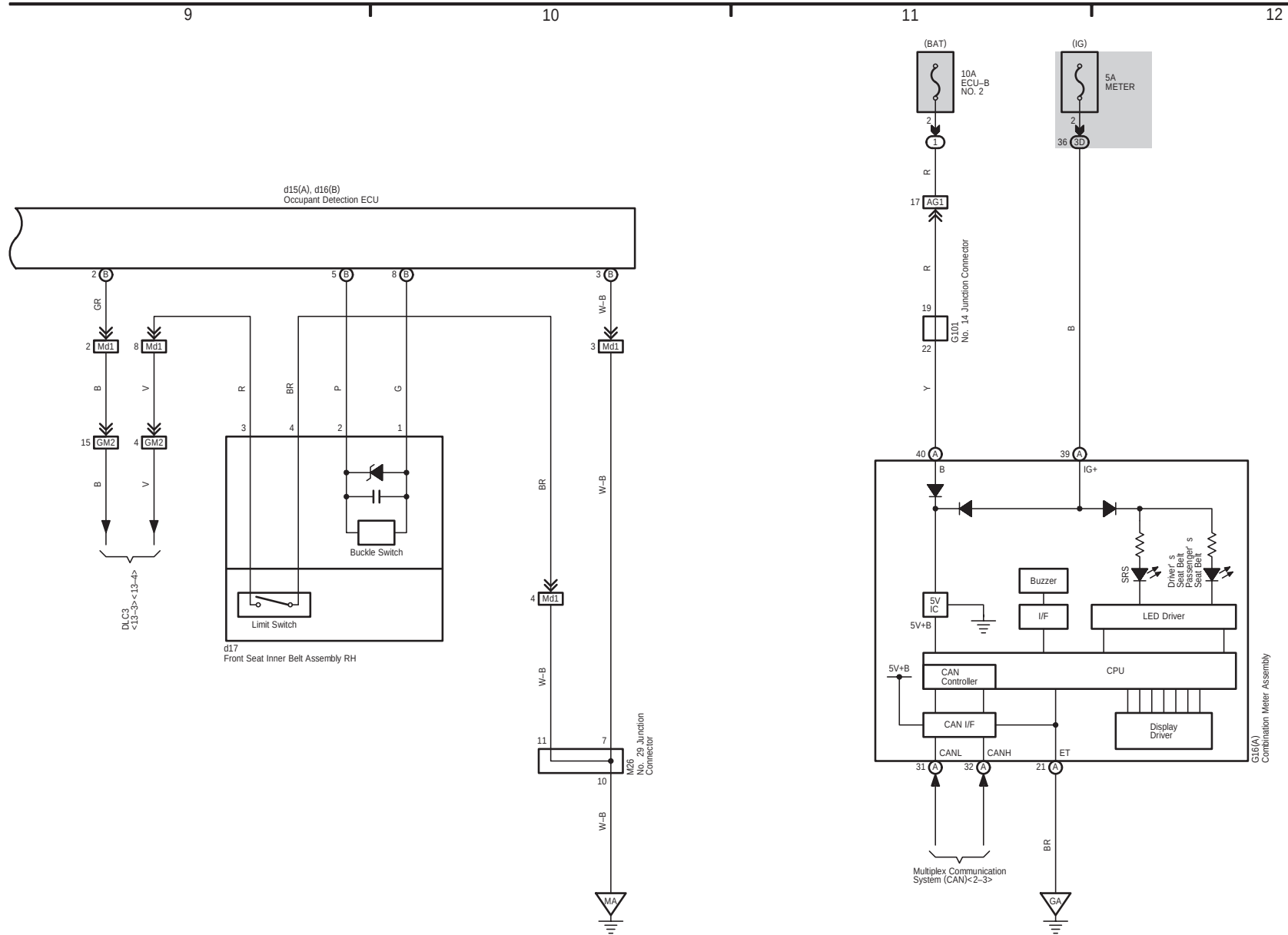
6

7

8



Seat Belt Warning (Korea)



Power Seat (LHD) (Korea)

