

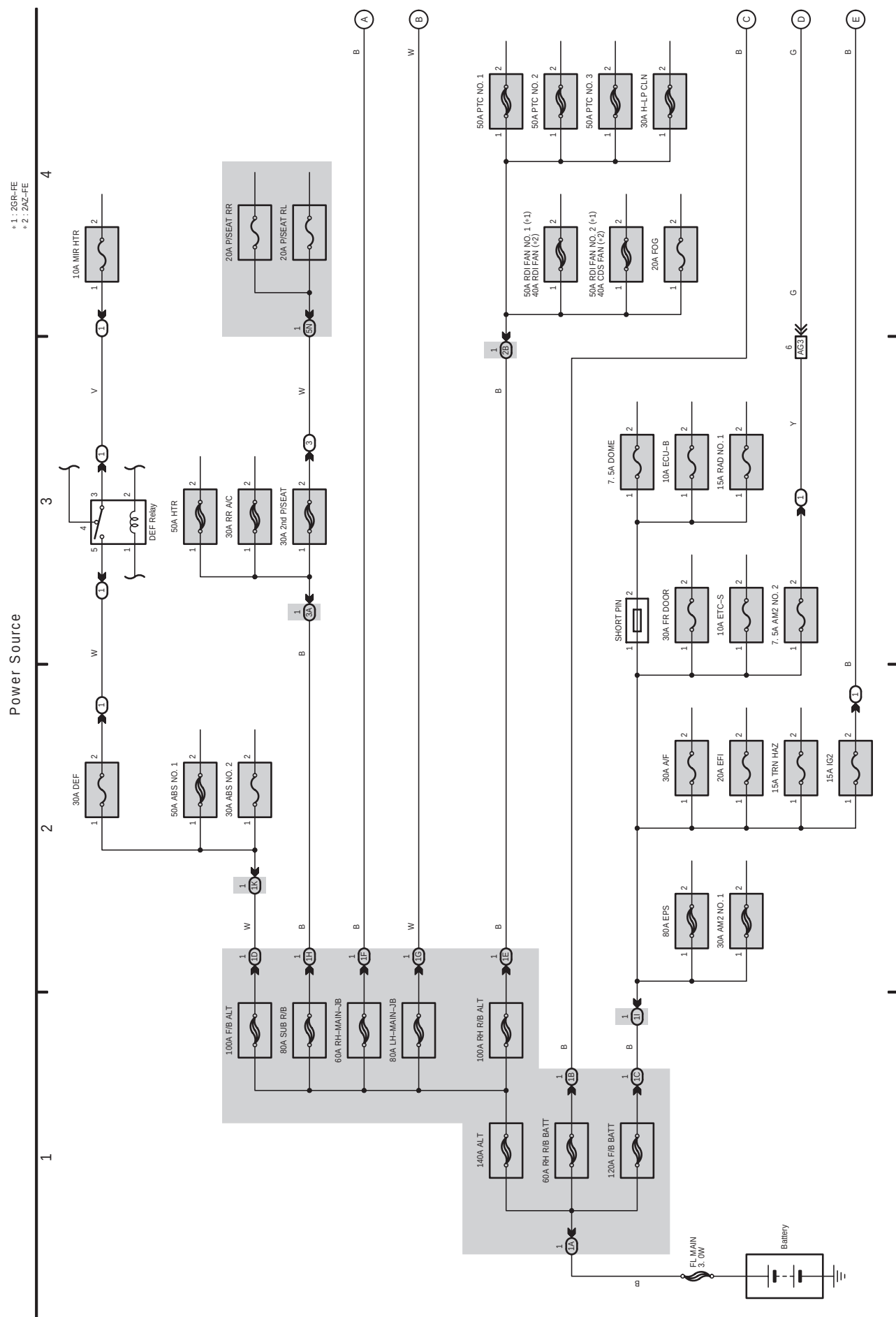
SYSTEM INDEX

M OVERALL ELECTRICAL WIRING DIAGRAM

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Adaptive Front-Lighting System	16-1	* Back Door Opener	
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Air Conditioner (RHD)	26-1	* Front Fog Light	
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Audio System (LHD w/o Navigation System)	47-1	* Illumination	
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SYSTEM INDEX

SYSTEMS	LOCATION	SYSTEMS	LOCATION
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TRC	13-1		
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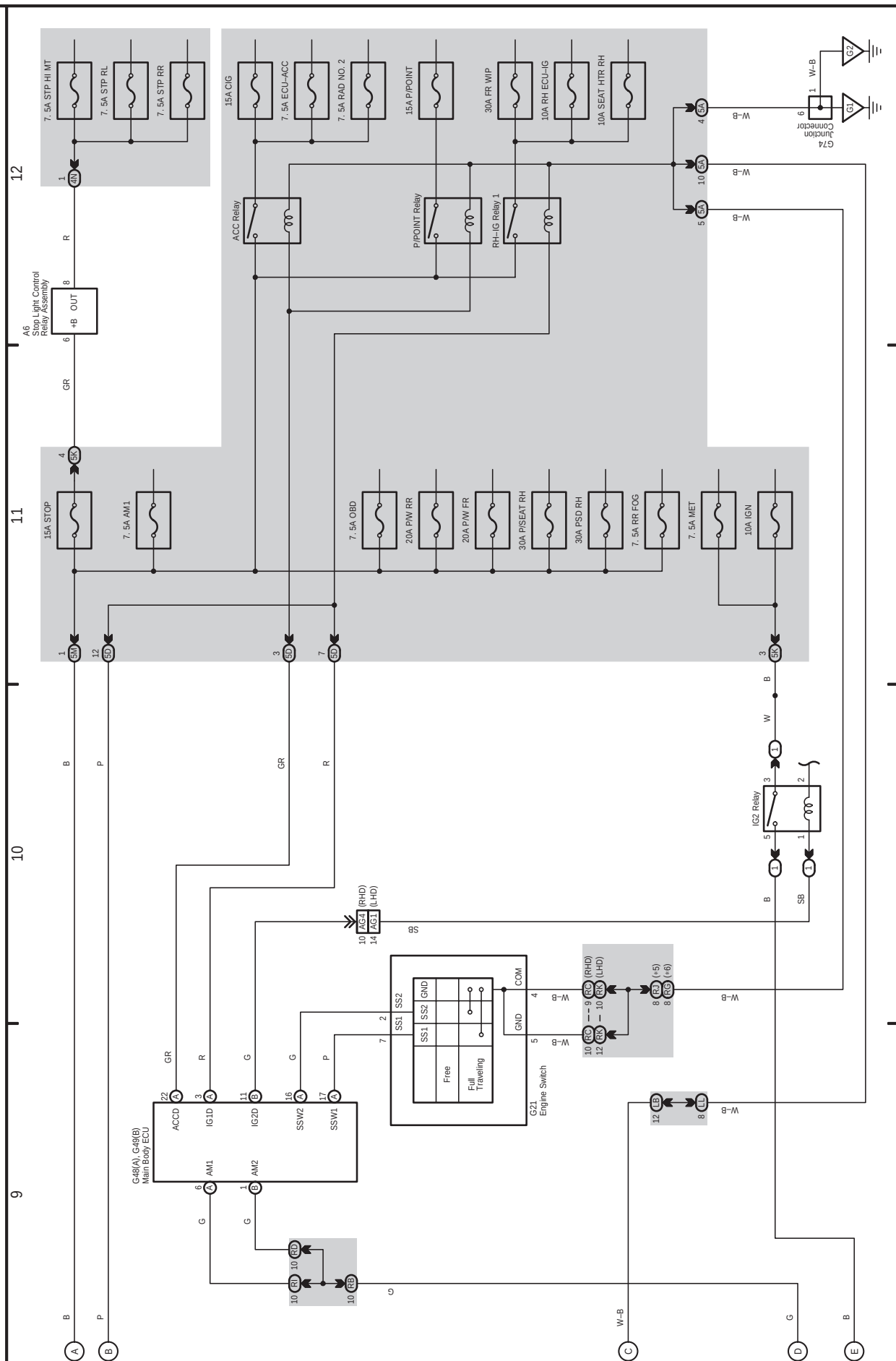


M OVERALL ELECTRICAL WIRING DIAGRAM

1 ALPHARD / VELLFIRE (Cont'd)

Power Source

* 5 : RHD, LHD Before Aug. 2010 Production
* 6 : LHD From Aug. 2010 Production



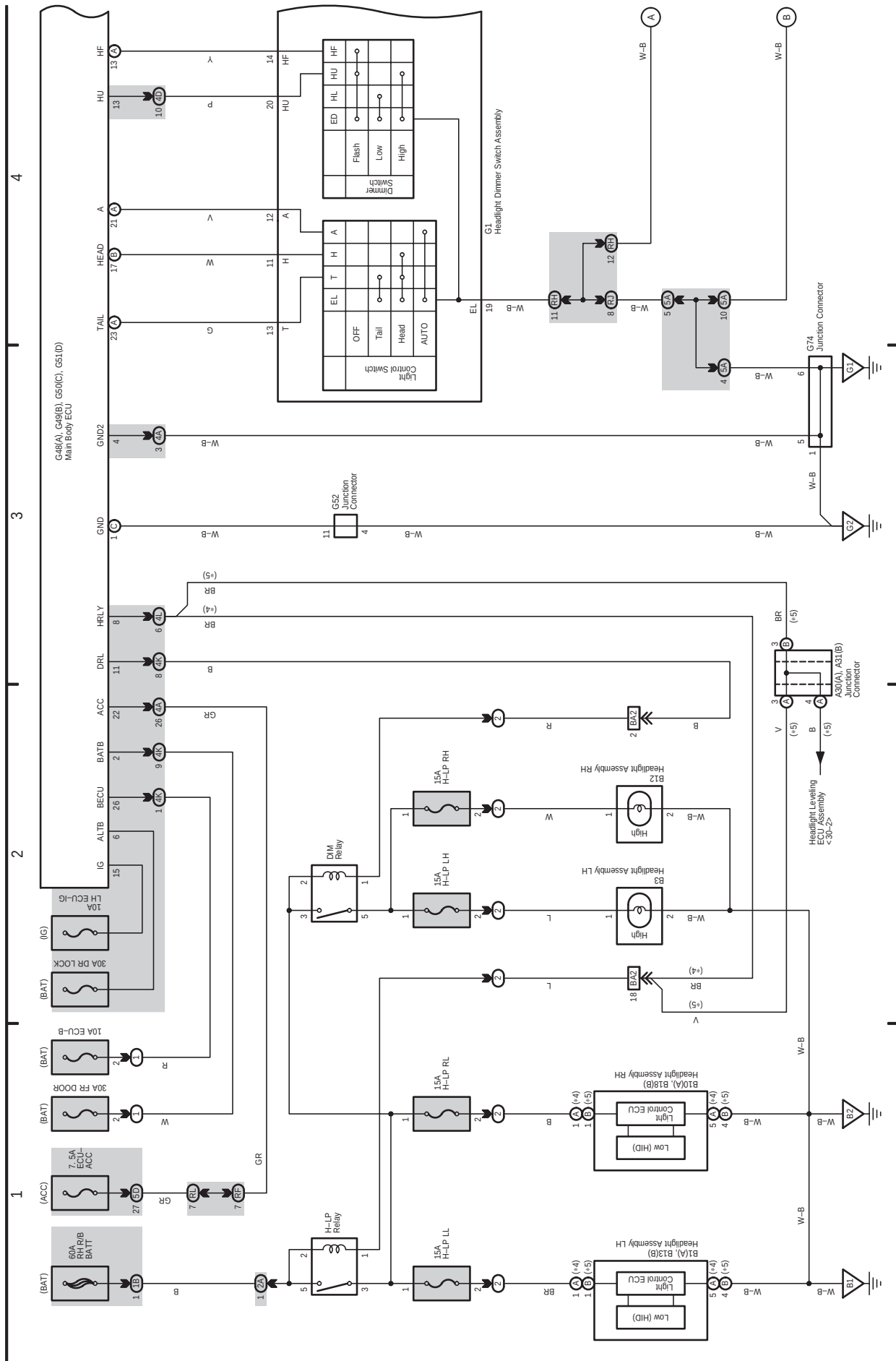
M OVERALL ELECTRICAL WIRING DIAGRAM

2 ALPHARD / VELLFIRE

(Cont. next page)

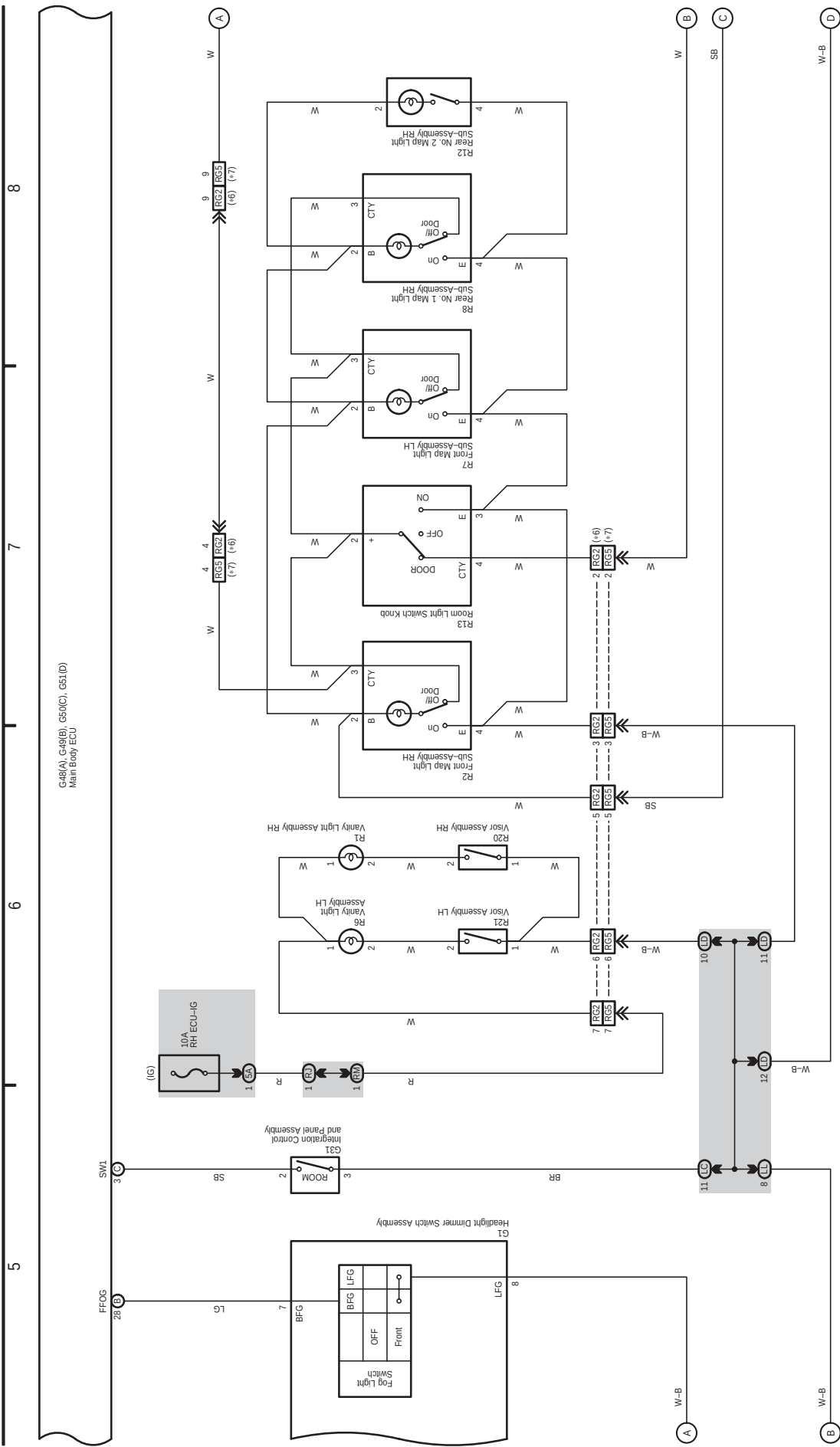
Multiplex Communication System (CAN RHD)

* 4 : 2GR-FE
* 5 : 2AZ-FE



Multiplex Communication System (CAN RHD)

* 6 : Before Jun. 2009 Production
* 7 : From Jun. 2009 Production



M OVERALL ELECTRICAL WIRING DIAGRAM

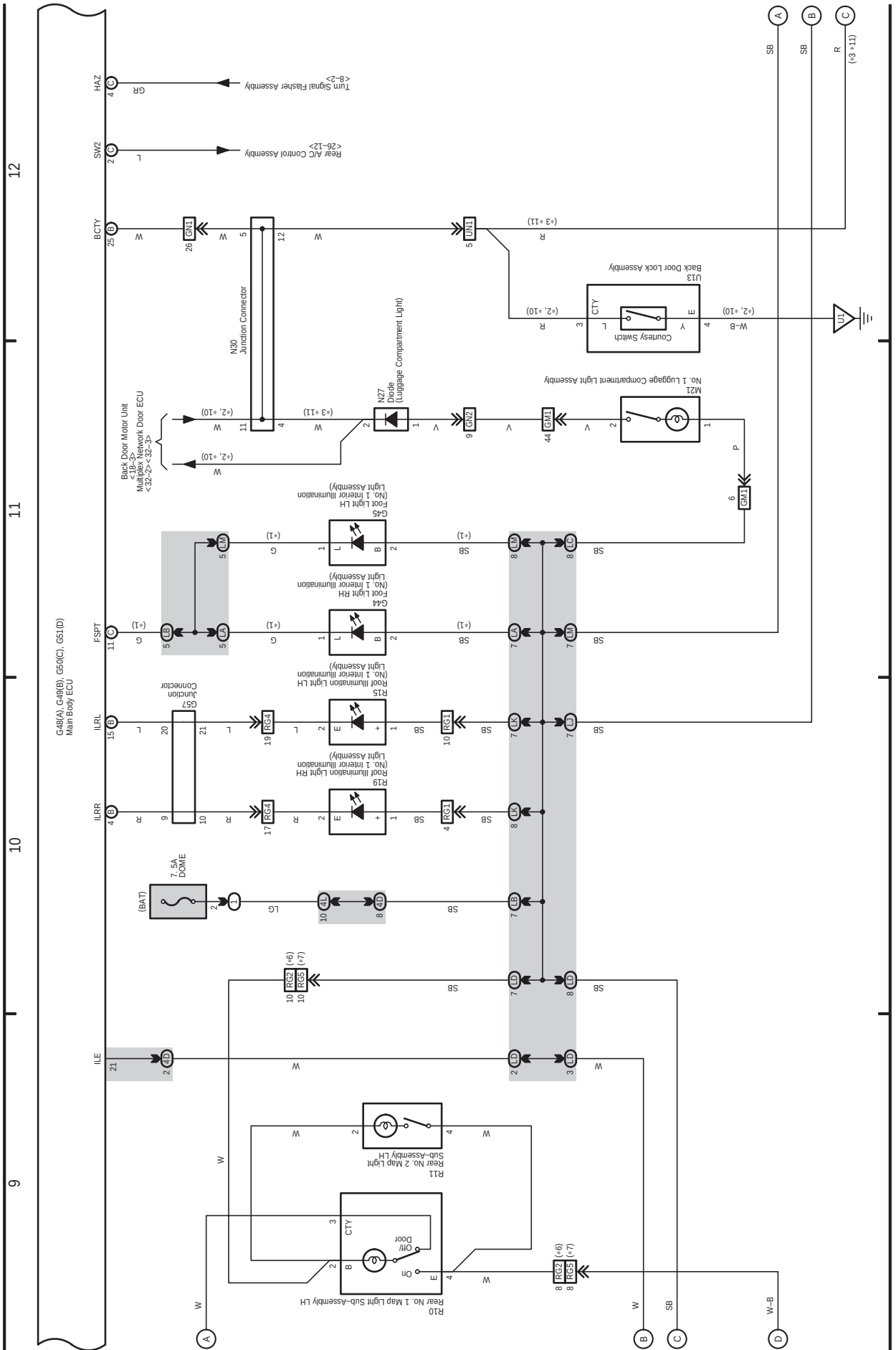
2 ALPHARD / VELLFIRE (Cont' d)

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* 6 : Before Jun. 2009 Production
* 7 : From Jun. 2009 Production
* 10 : w/ Power Back Door
* 11 : w/o Power Back Door

* 1 : w/ Foot Light
* 2 : w/ Power Back Door
* 3 : w/o Power Back Door

Multiplex Communication System (CAN RHD)



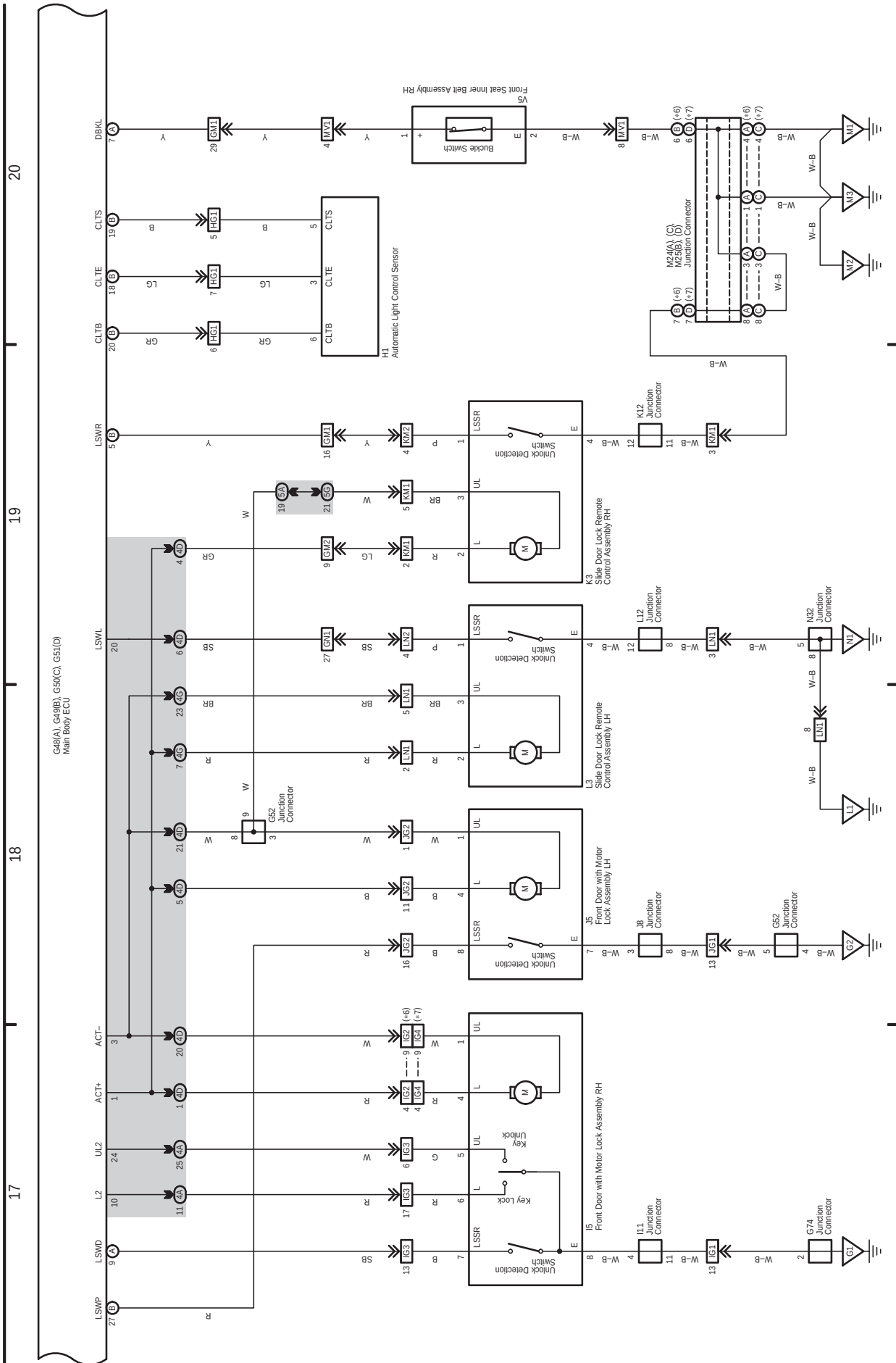
M OVERALL ELECTRICAL WIRING DIAGRAM

2 ALPHARD / VELLFIRE (Cont'd)

(Cont. next page)

* 6 : Before Jun. 2009 Production
* 7 : From Jun. 2009 Production

Multiplex Communication System (CAN RHD)



* 6 : Before Jun. 2009 Production
 * 7 : From Jun. 2009 Production
 * 14 : w/ Sliding Roof

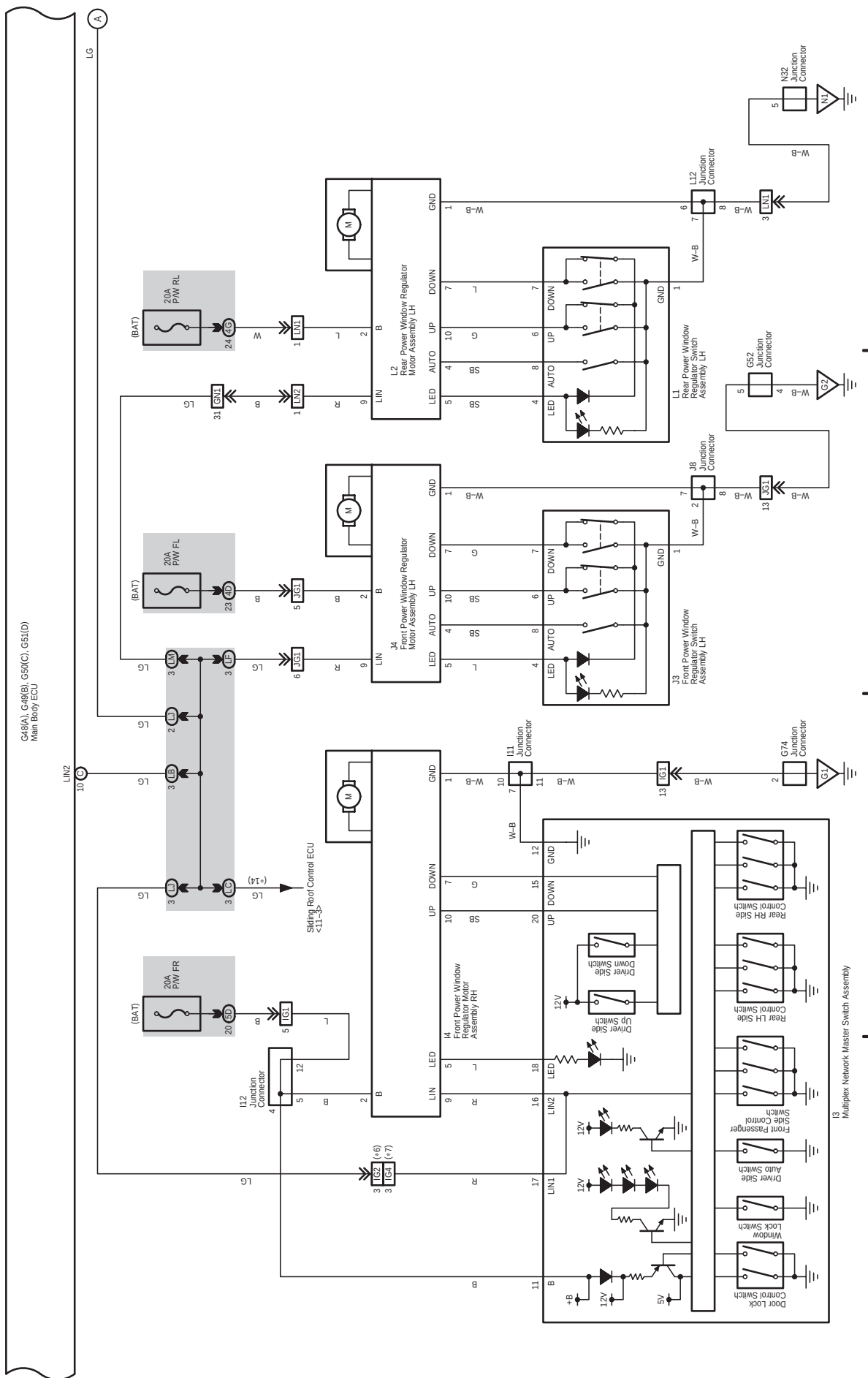
Multiplex Communication System (CAN RHD)

21

22

23

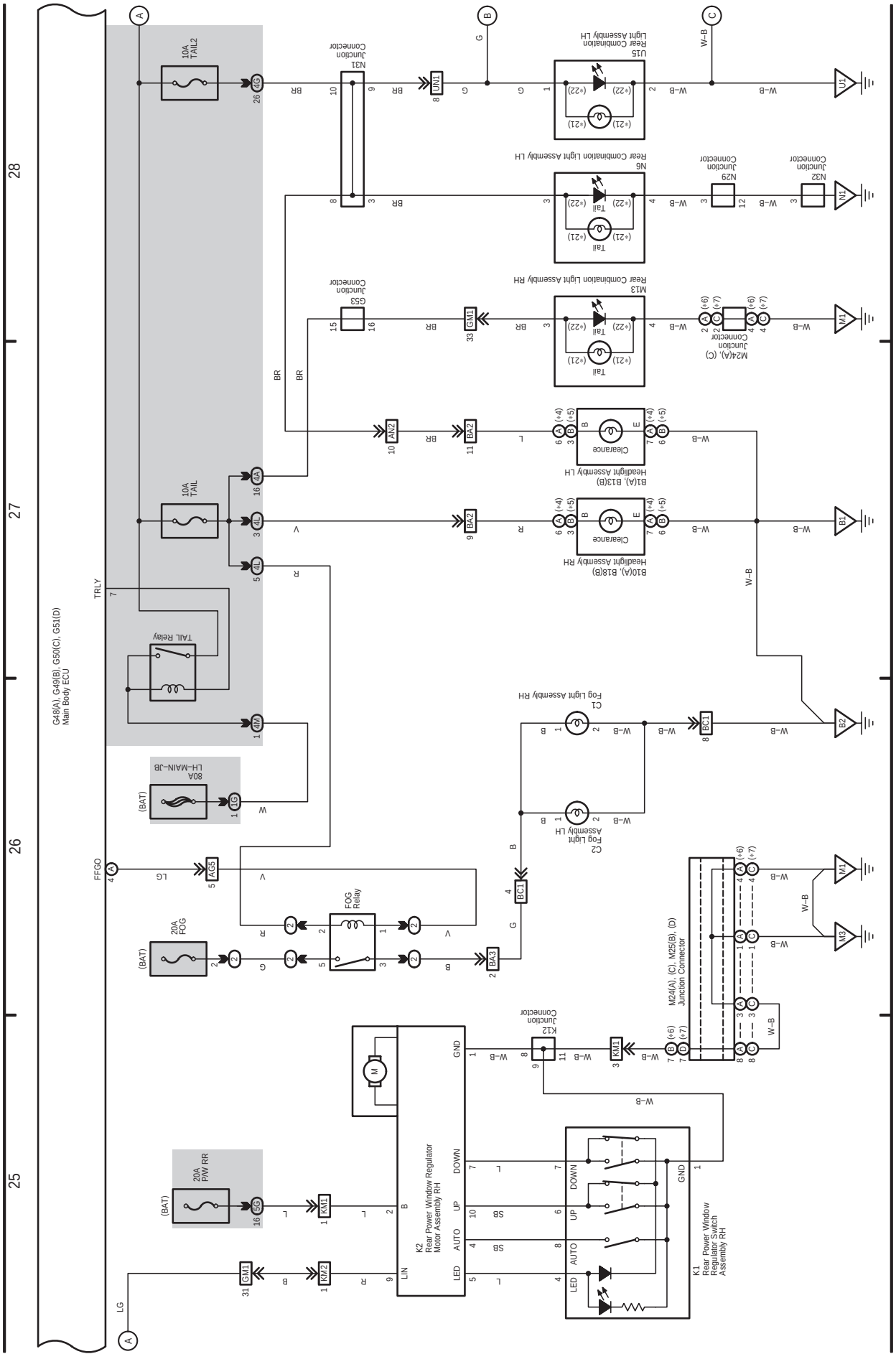
24



* 4 : 2GR-FE
 * 5 : 2AZ-FE
 * 6 : Before Jun. 2009 Production
 * 7 : From Jun. 2009 Production

Multiplex Communication System (CAN RHD)

* 21 : Bulb Type
 * 22 : LED Type



- * 2 : w/ Power Back Door
- * 6 : Before Jun. 2009 Production
- * 7 : From Jun. 2009 Production
- * 21 : Bulb Type
- * 22 : LED Type

Multiplex Communication System (CAN RHD)

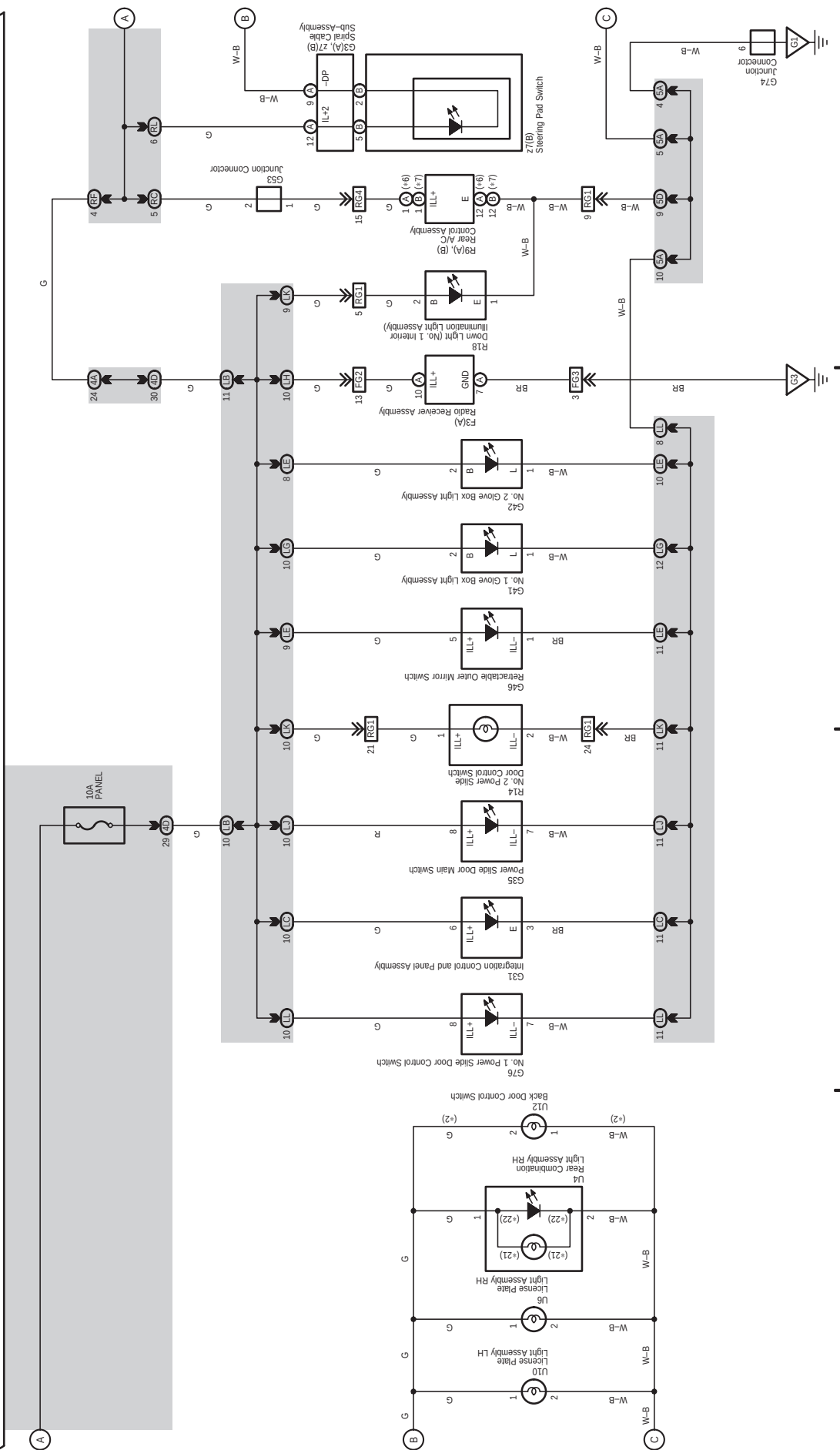
32

31

30

29

G48(A), G49(B), G50(C), G51(D)
Main Body ECU



M OVERALL ELECTRICAL WIRING DIAGRAM

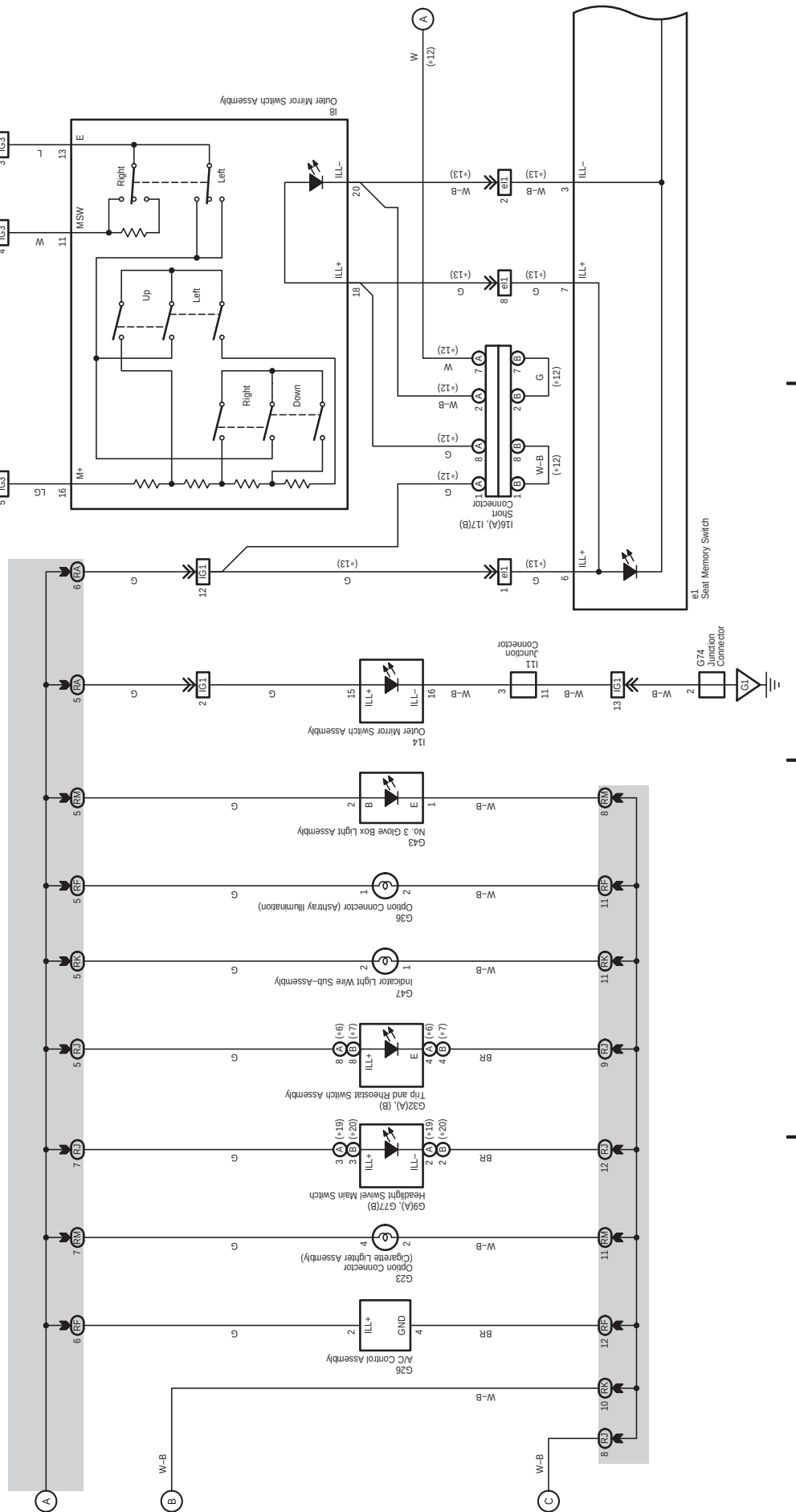
2 ALPHARD / VELLFIRE (Cont' d)

(Cont. next page)

* 6 : Before Jun. 2009 Production
* 7 : From Jun. 2009 Production
* 12 : w/o Seat Position Memory
* 13 : w/ Seat Position Memory
* 19 : Before Aug. 2010 Production
* 20 : From Aug. 2010 Production

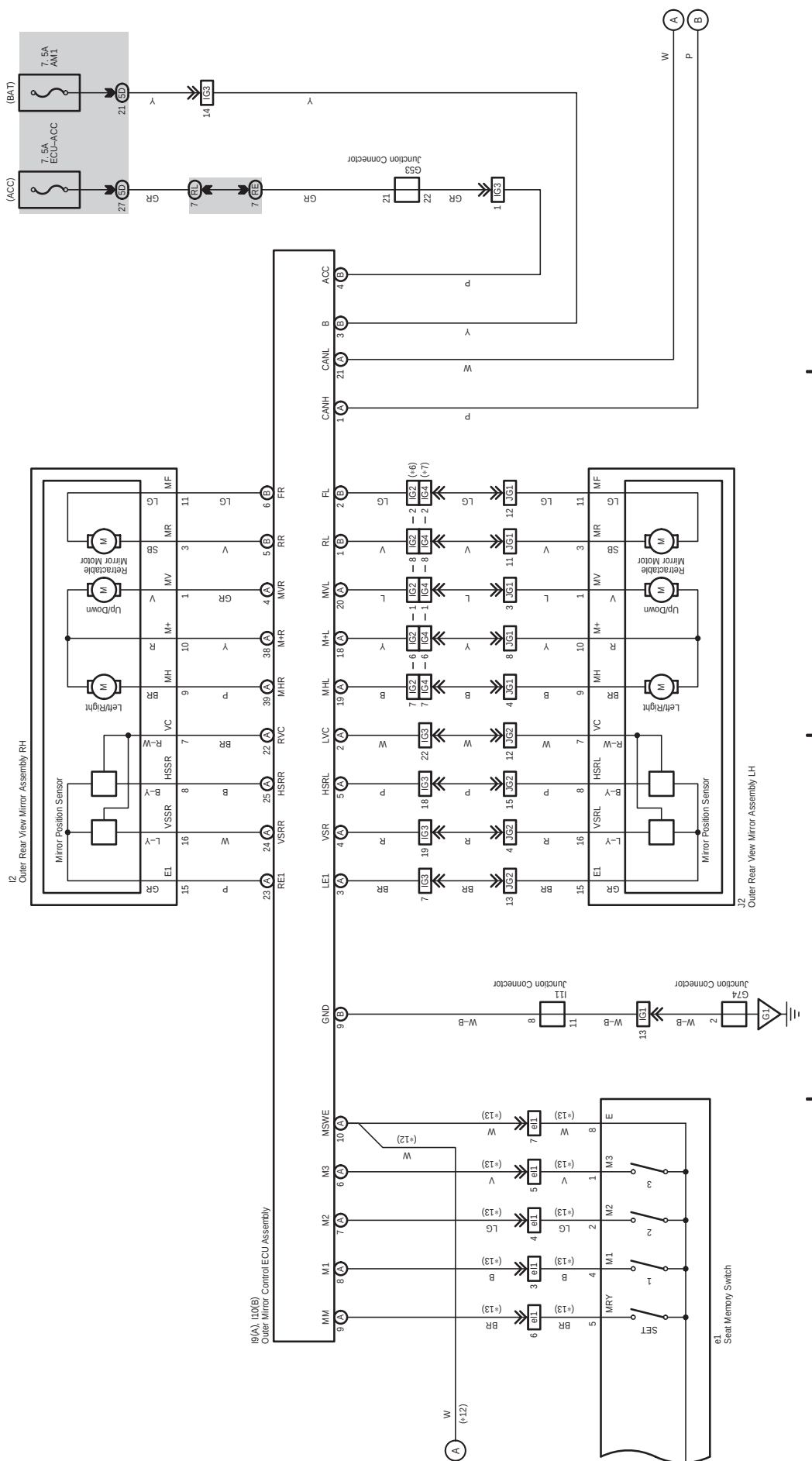
Multiplex Communication System (CAN RHD)

G48(A), G49(B), G50(C), G51(D)
Main Body ECU



Multiplex Communication System (CAN RHD)

* 6 : Before Jun. 2009 Production
* 7 : From Jun. 2009 Production
* 12 : w/o Seat Position Memory
* 13 : w/ Seat Position Memory



M OVERALL ELECTRICAL WIRING DIAGRAM

2 ALPHARD / VELLFIRE (Cont'd)

(Cont. next page)

* 4 : 2GR-FE
* 16 : w/ Adaptive Front-Lighting System

Multiplex Communication System (CAN RHD)

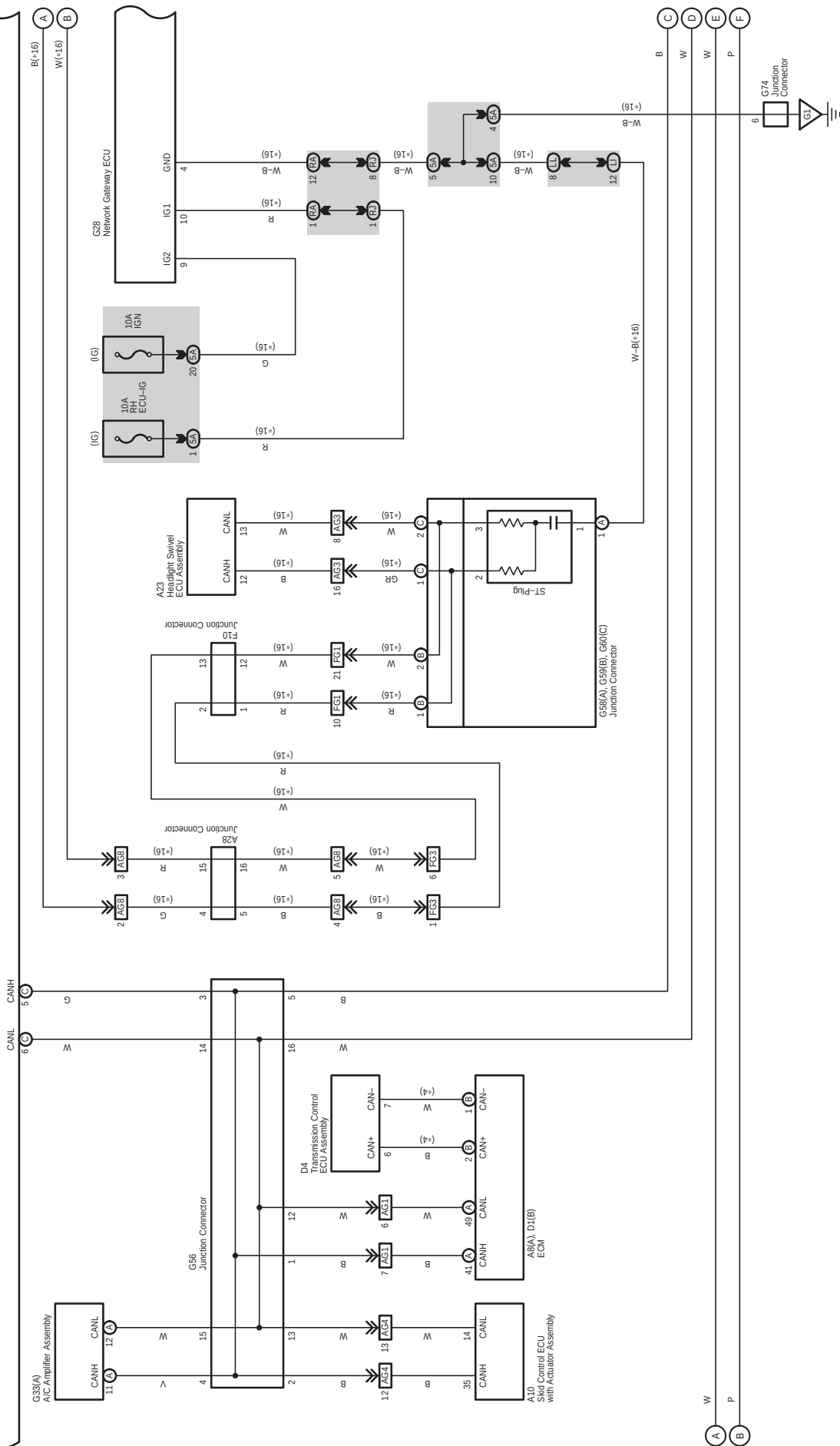
41

42

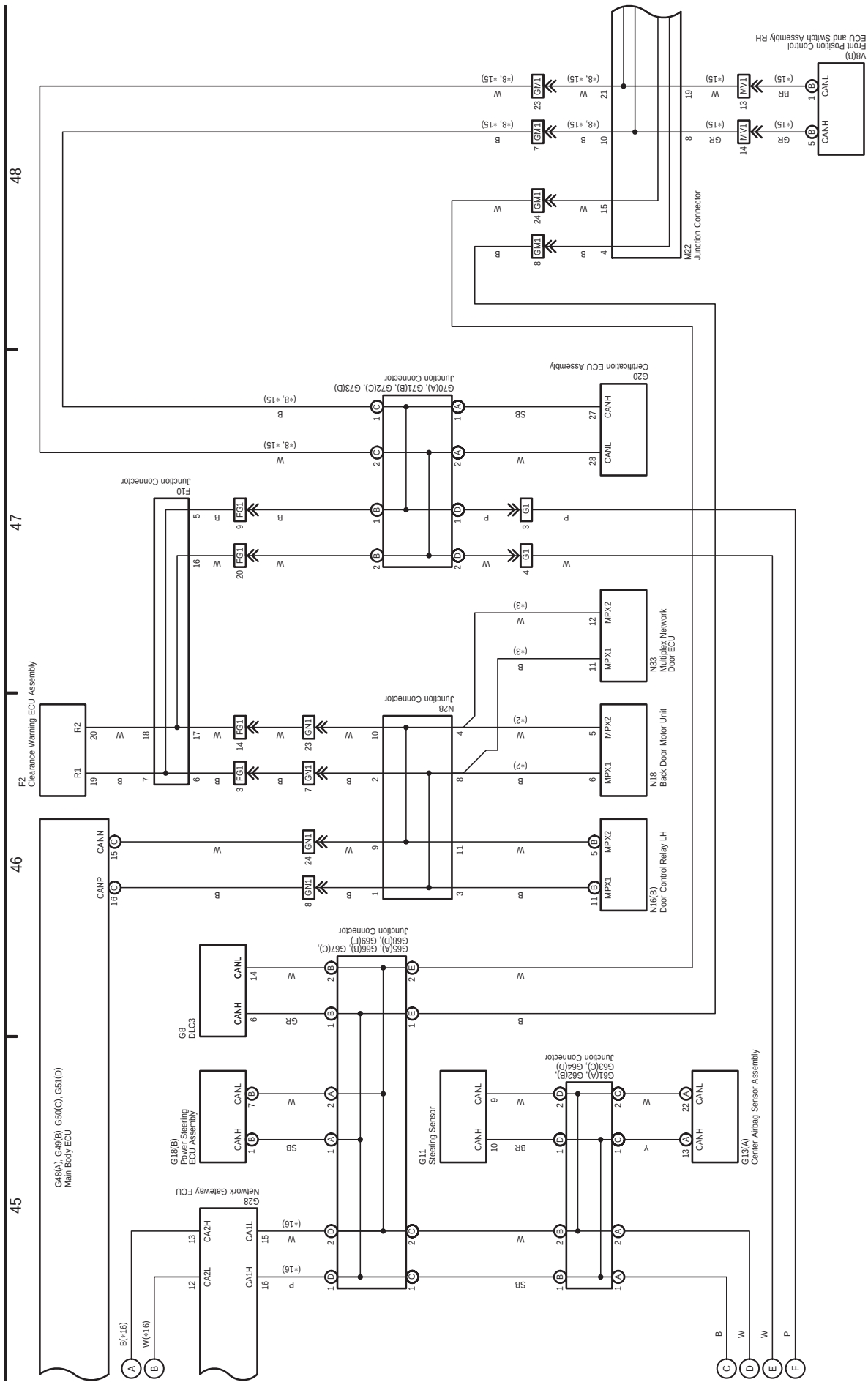
43

44

G48(A), G49(B), G50(C), G51(D)
Main Body ECU



Multiplex Communication System (CAN RHD)

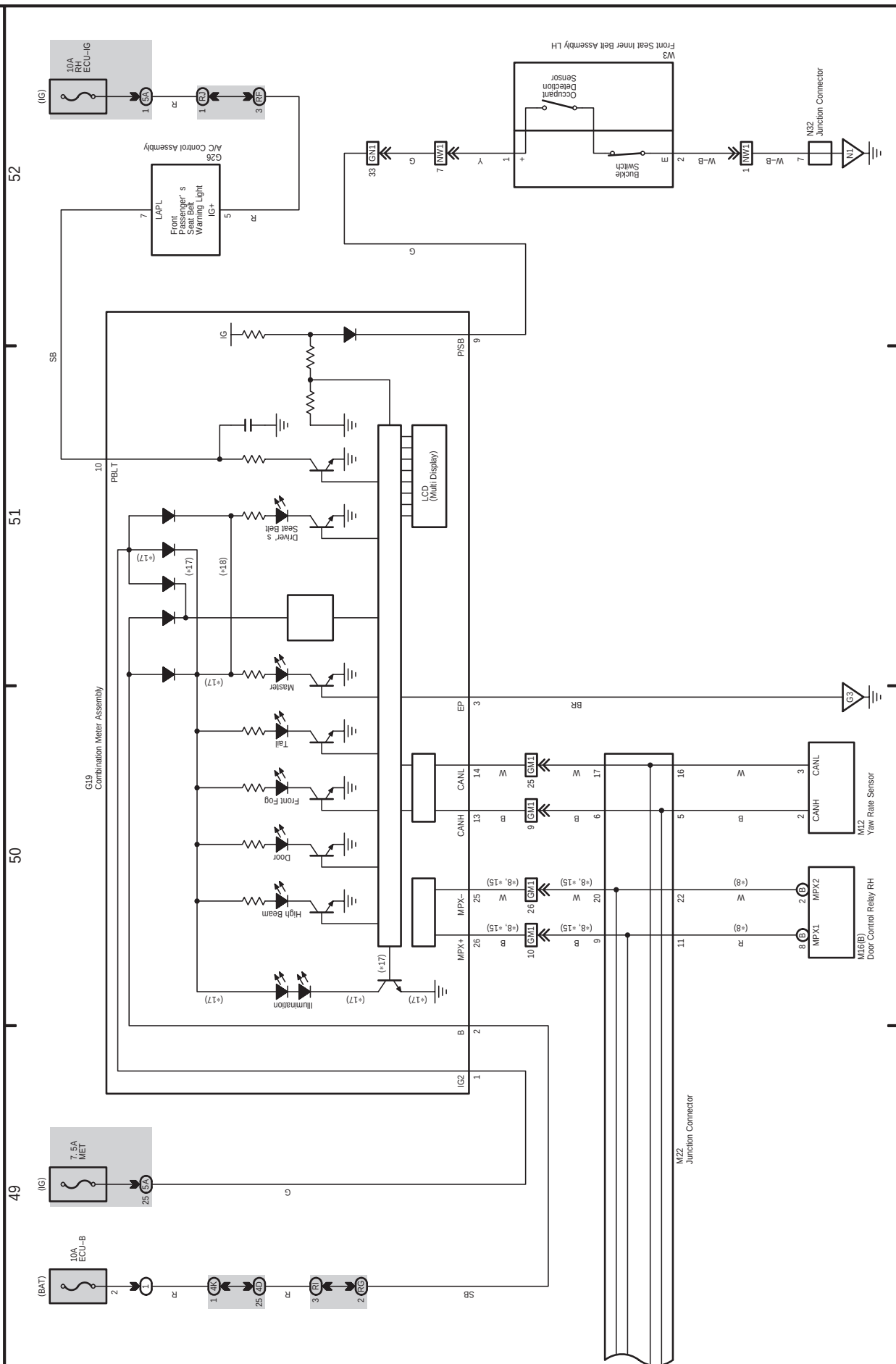


M OVERALL ELECTRICAL WIRING DIAGRAM

2 ALPHARD / VELLFIRE (Cont'd)

Multiplex Communication System (CAN RHD)

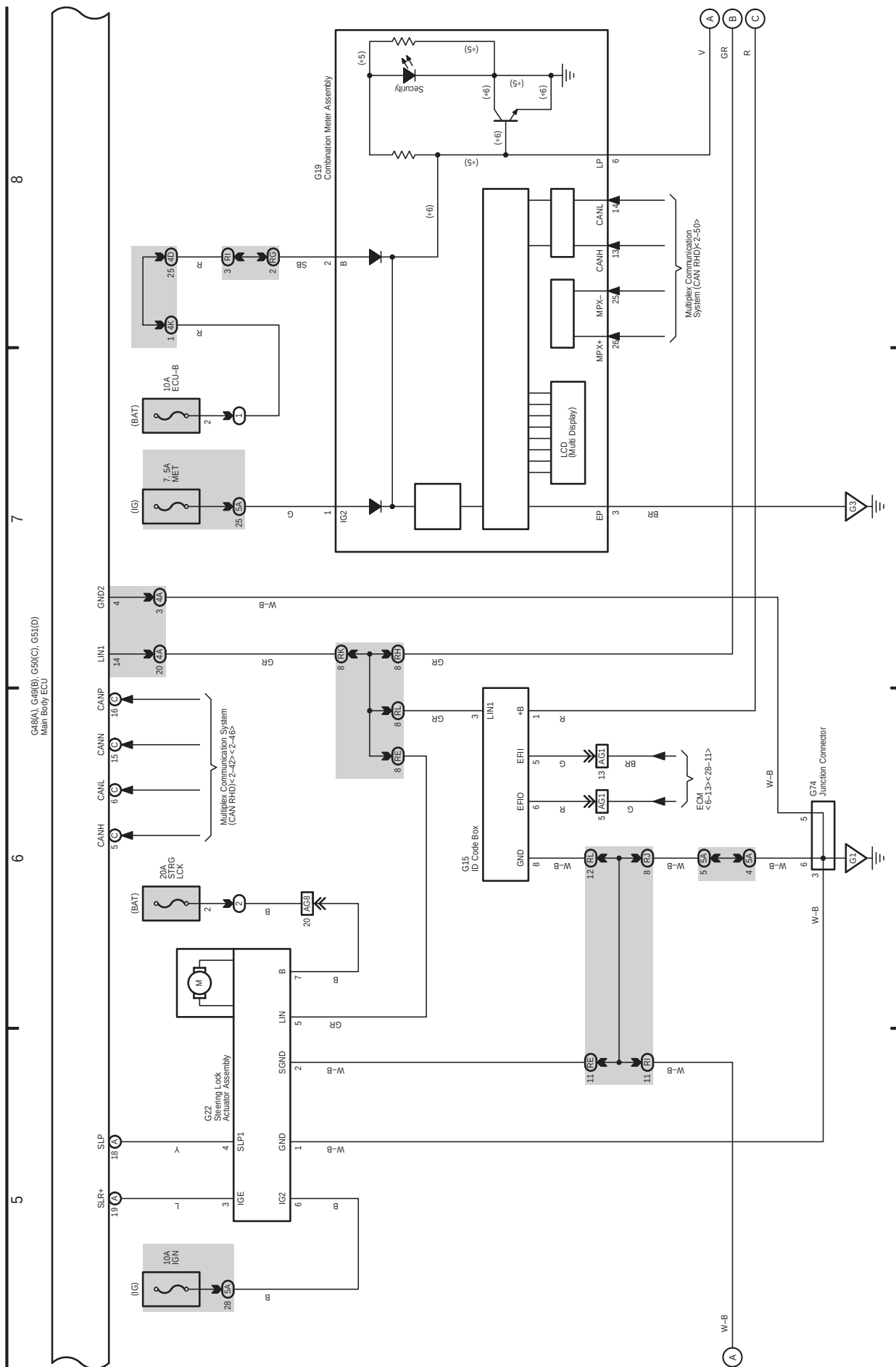
*8 : w/ Power Side Door RH
 *15 : w/ Seat Position Memory
 *17 : Before Apr. 2010 Production
 *18 : From Apr. 2010 Production





Smart Entry & Start System (RHD)

* 5: Before Apr. 2010 Production
* 6: From Apr. 2010 Production

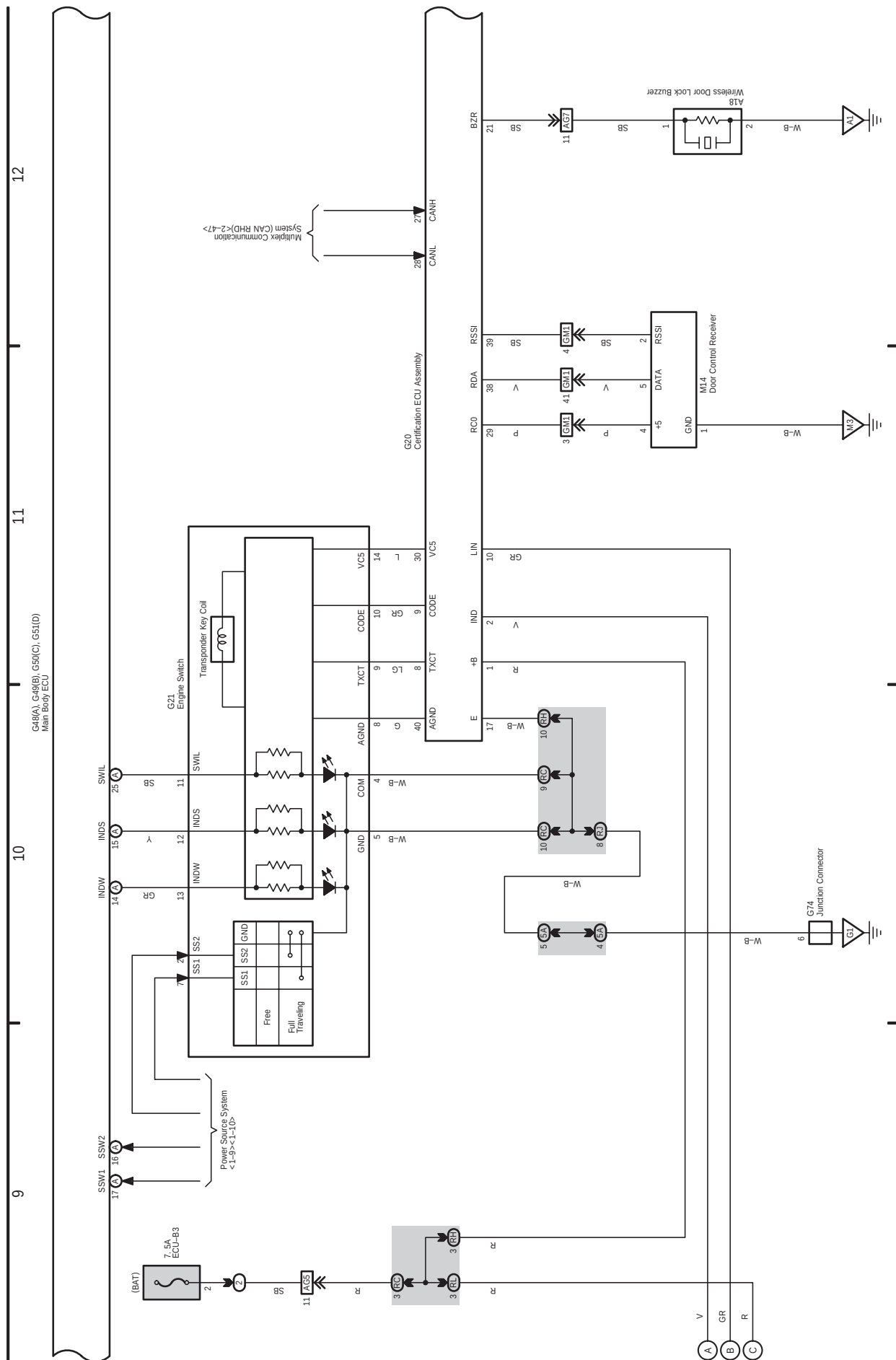


M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

3 ALPHARD / VELLFIRE (Cont' d)

Smart Entry & Start System (RHD)



Smart Entry & Start System (RHD)

* 3 : Before Jun. 2009 Production
* 4 : From Jun. 2009 Production

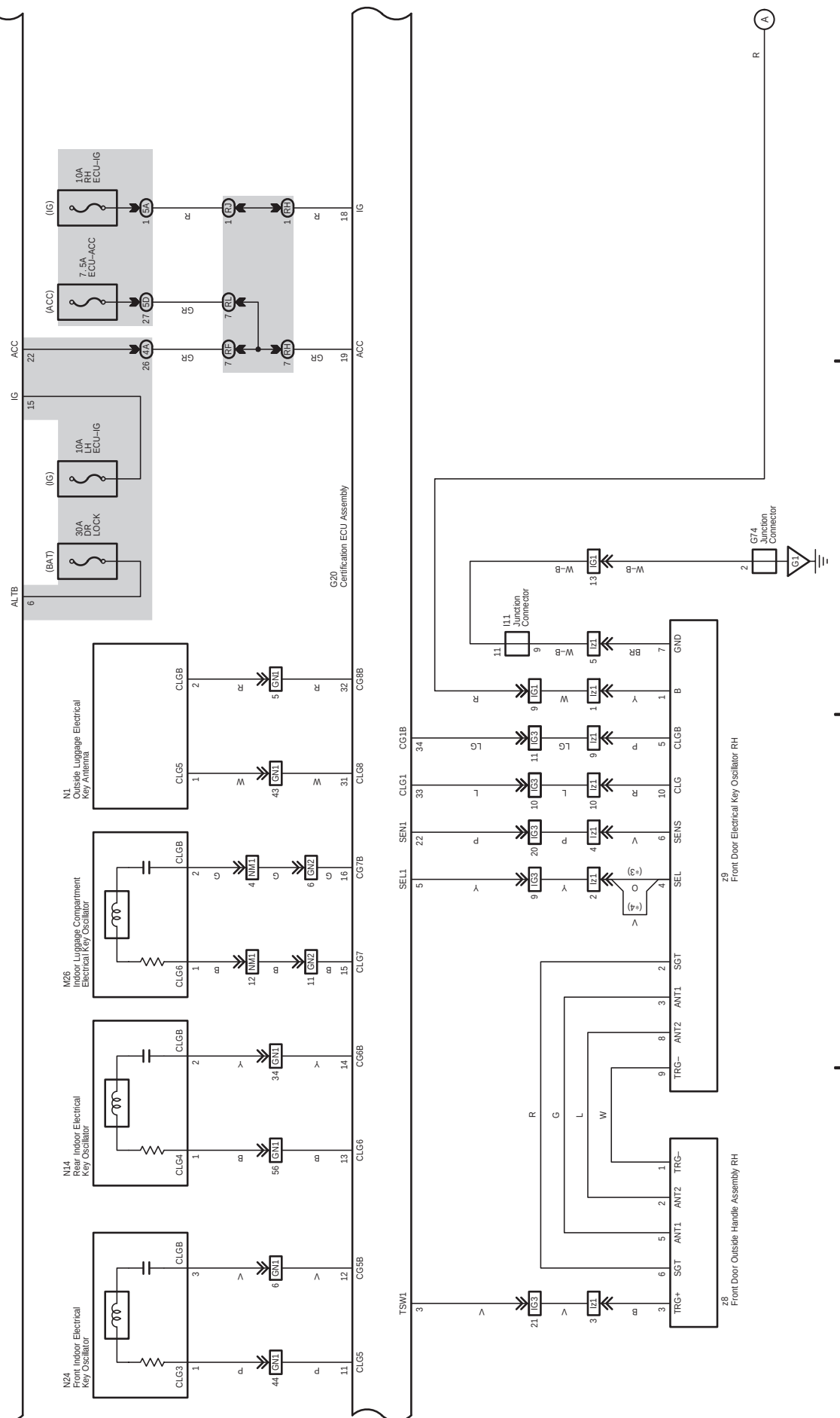
13

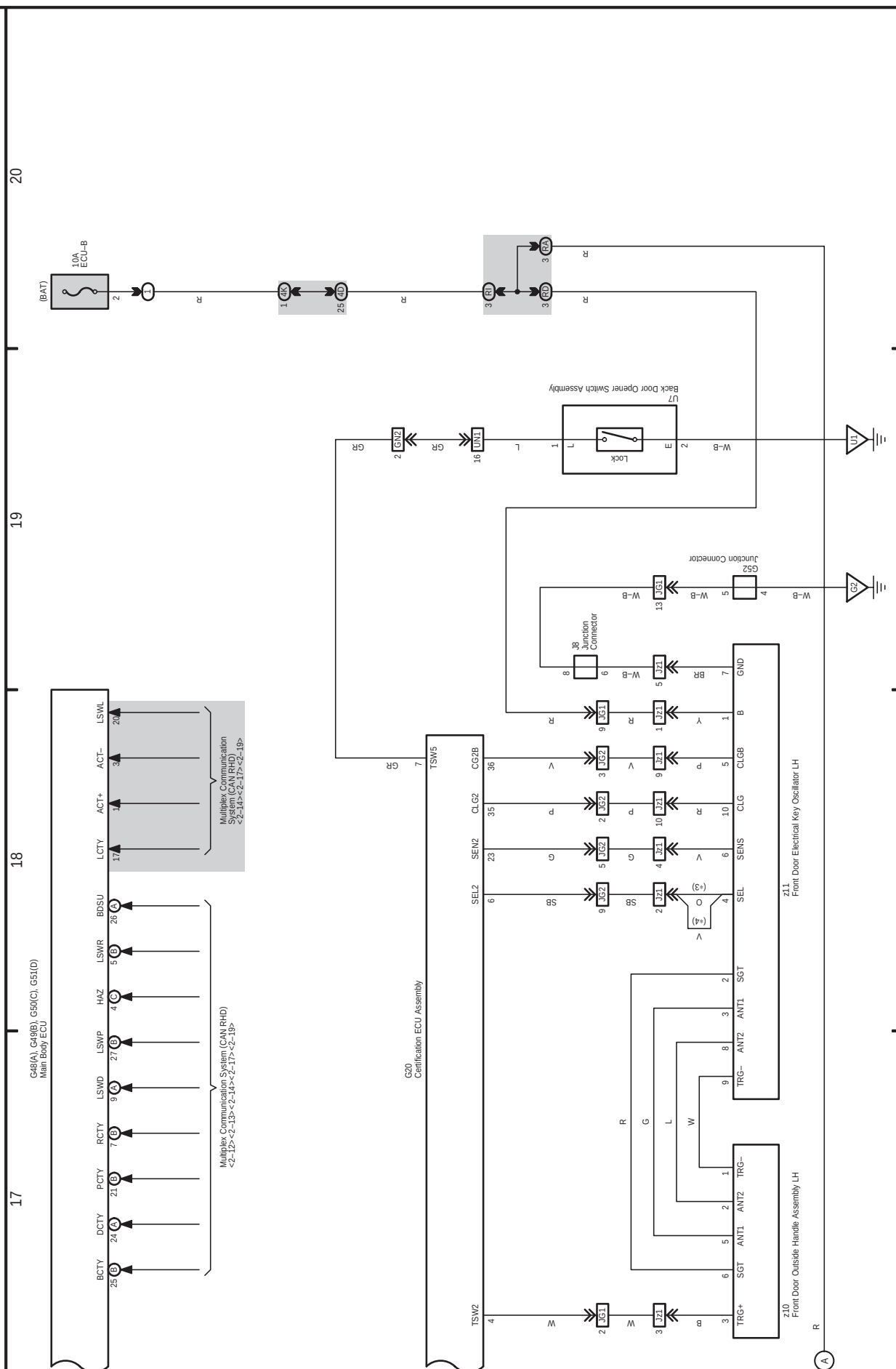
14

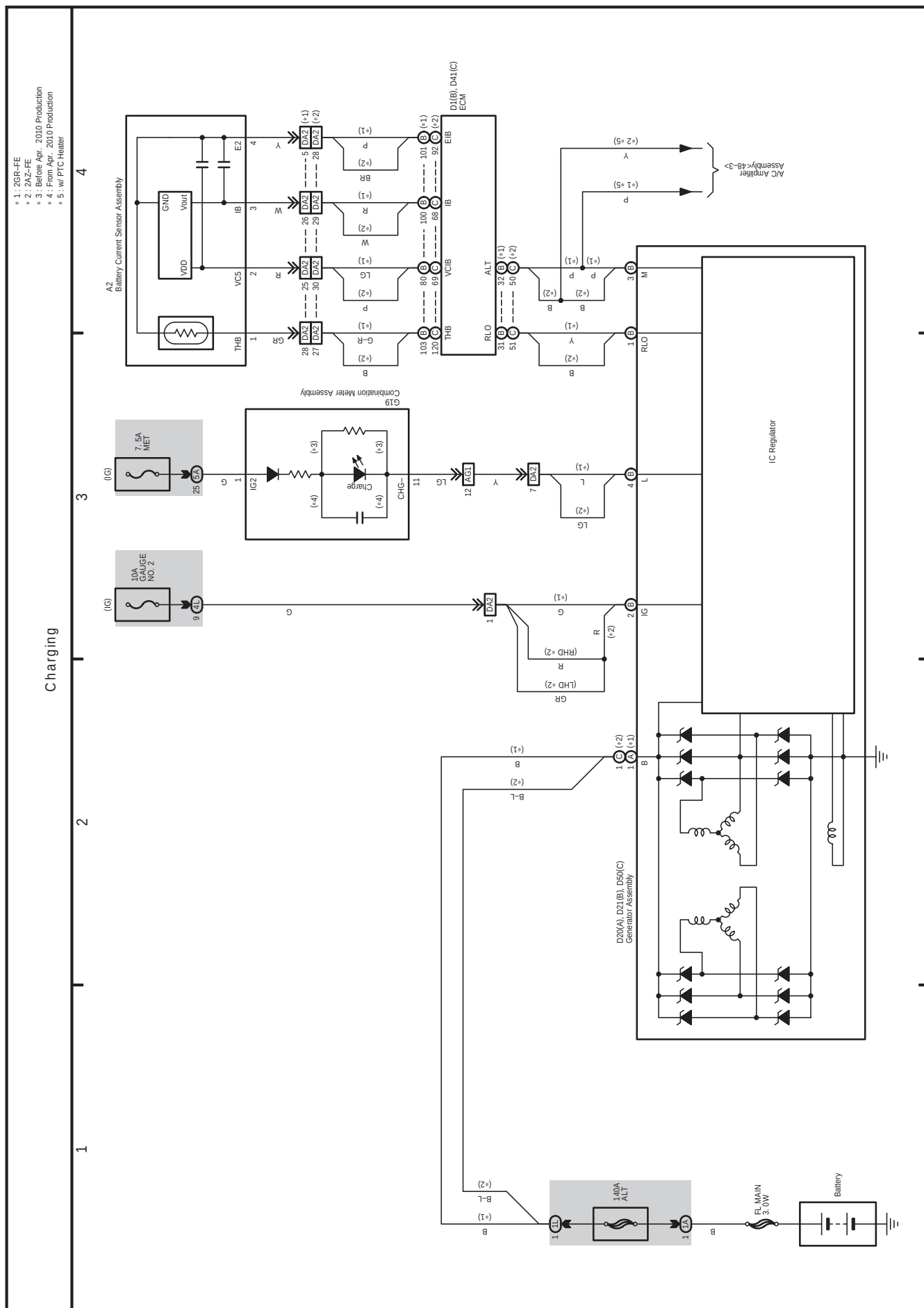
15

16

G48(A), G48(B), G50(C), G51(D)
Main Body ECU





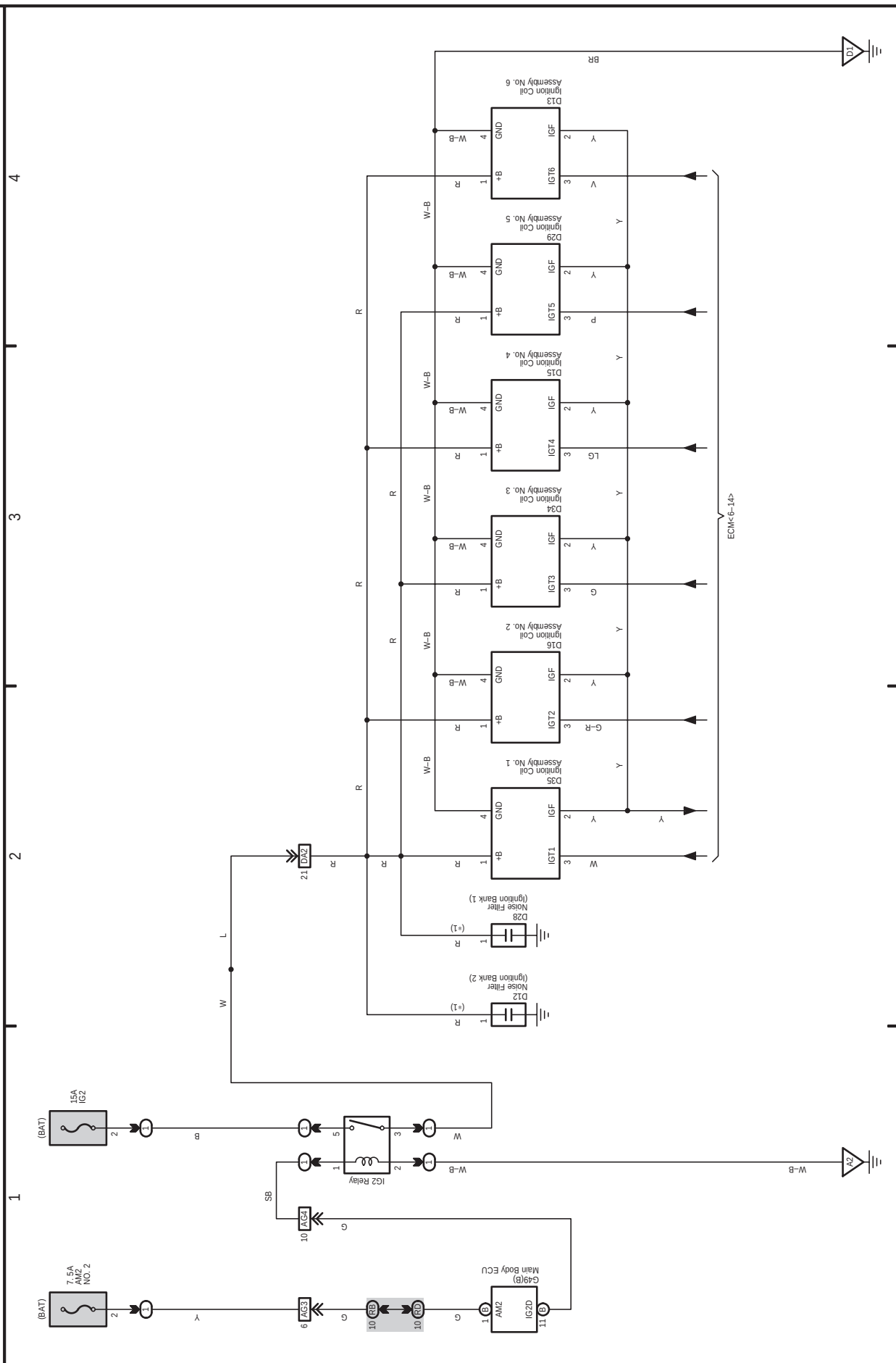


M OVERALL ELECTRICAL WIRING DIAGRAM

5 ALPHARD / VELLFIRE

Ignition (2GR-FE)

* 1: Before Aug. 2010 Production



M OVERALL ELECTRICAL WIRING DIAGRAM

6 ALPHARD / VELLFIRE

(Cont. next page)

- * 1 : Before Jun. 2009 Production
- * 2 : From Jun. 2009 Production
- * 6 : Before Aug. 2010 Production
- * 7 : From Aug. 2010 Production

Engine Control (2GR-FE)

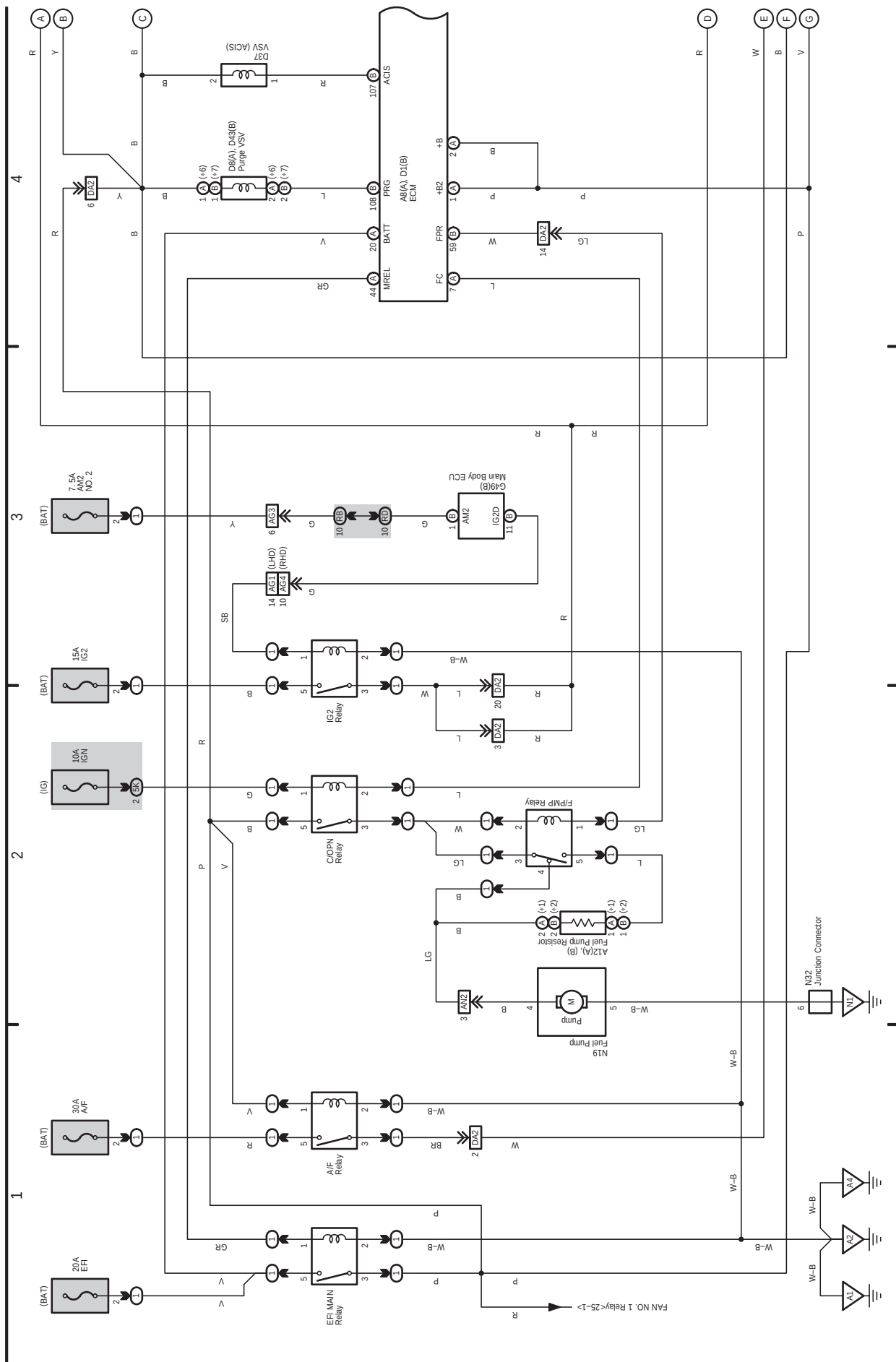
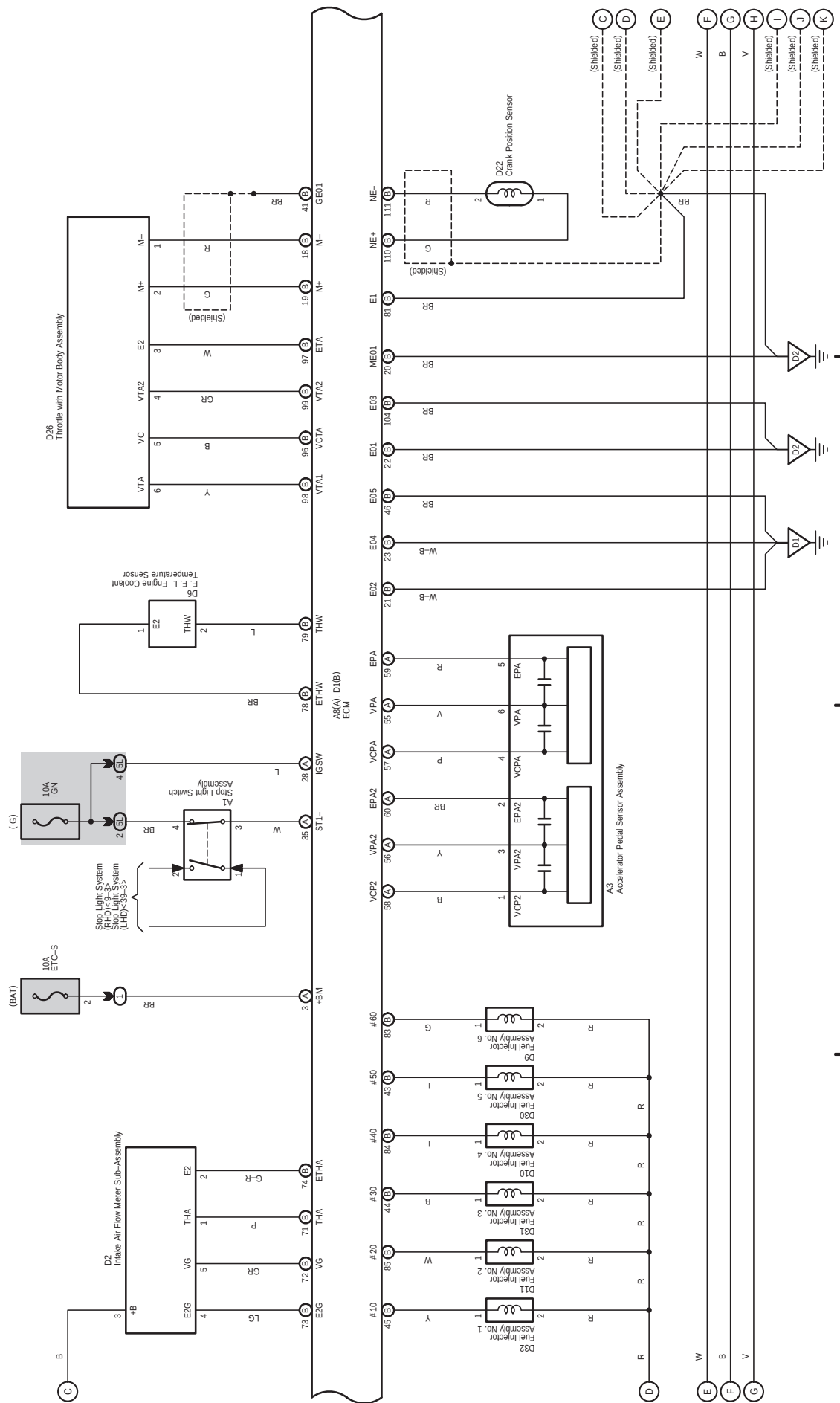
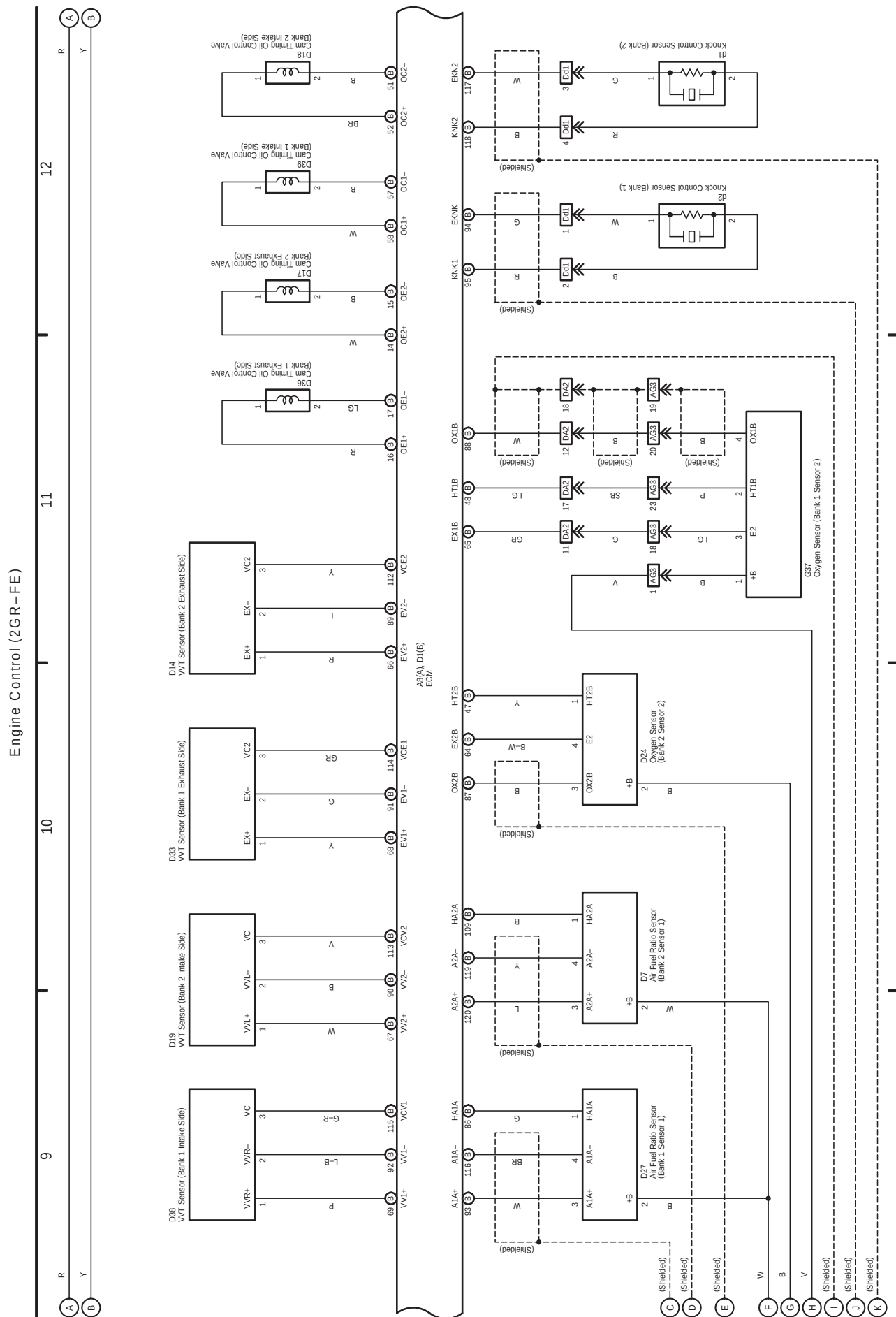


Figure 1 shows a horizontal line with four tick marks labeled 5, 6, 7, and 8. Below the line, there are two rows of circles. The top row is labeled R and the bottom row is labeled Y. The circles are positioned at the tick marks: A is at 5, B is at 6, A is at 7, and B is at 8.



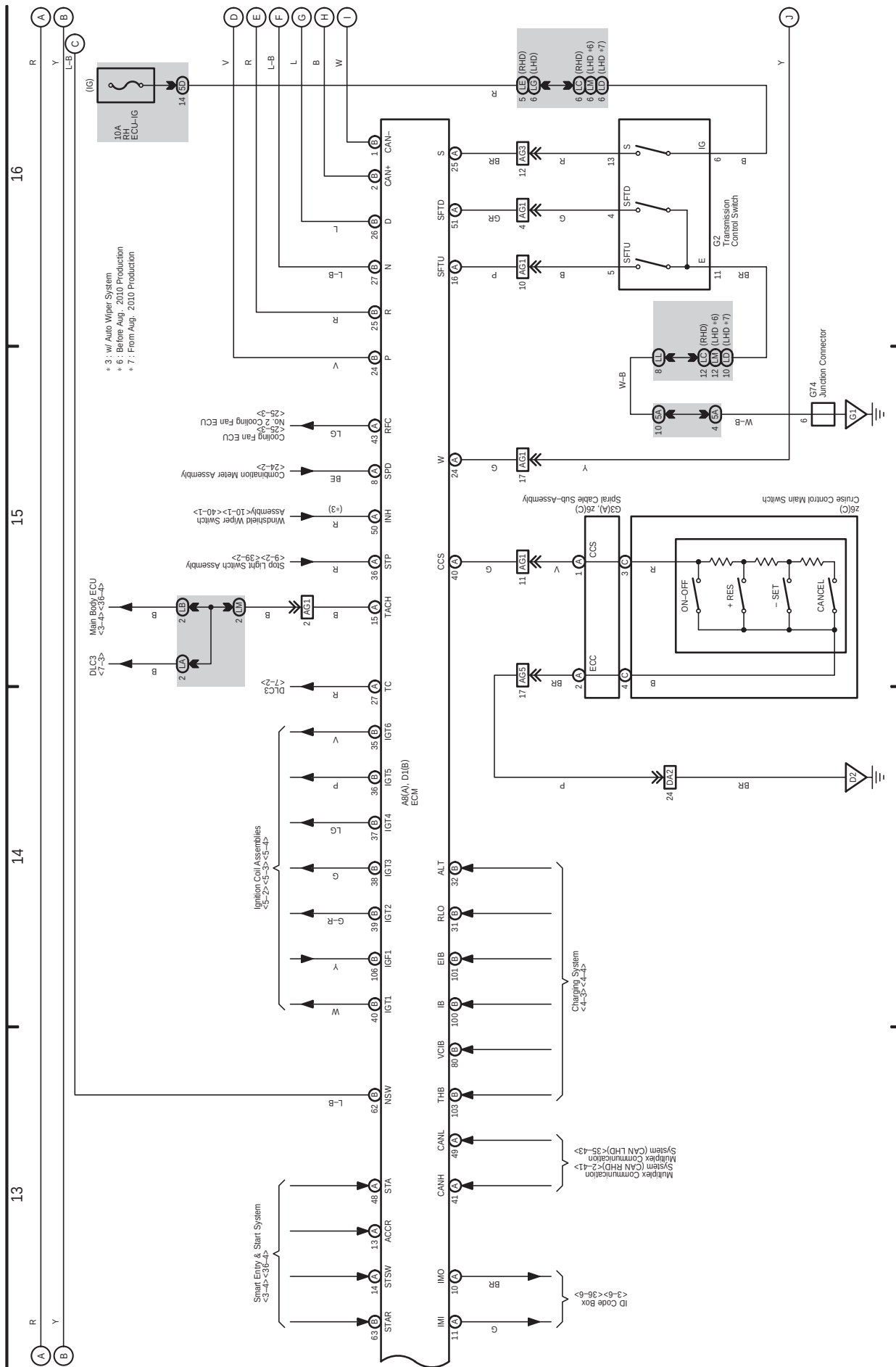
ALPHARD / VELLFIRE (EM08Z3E)



Engine Control (2GR-FE)

Cruise Control (2GR-FE)

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

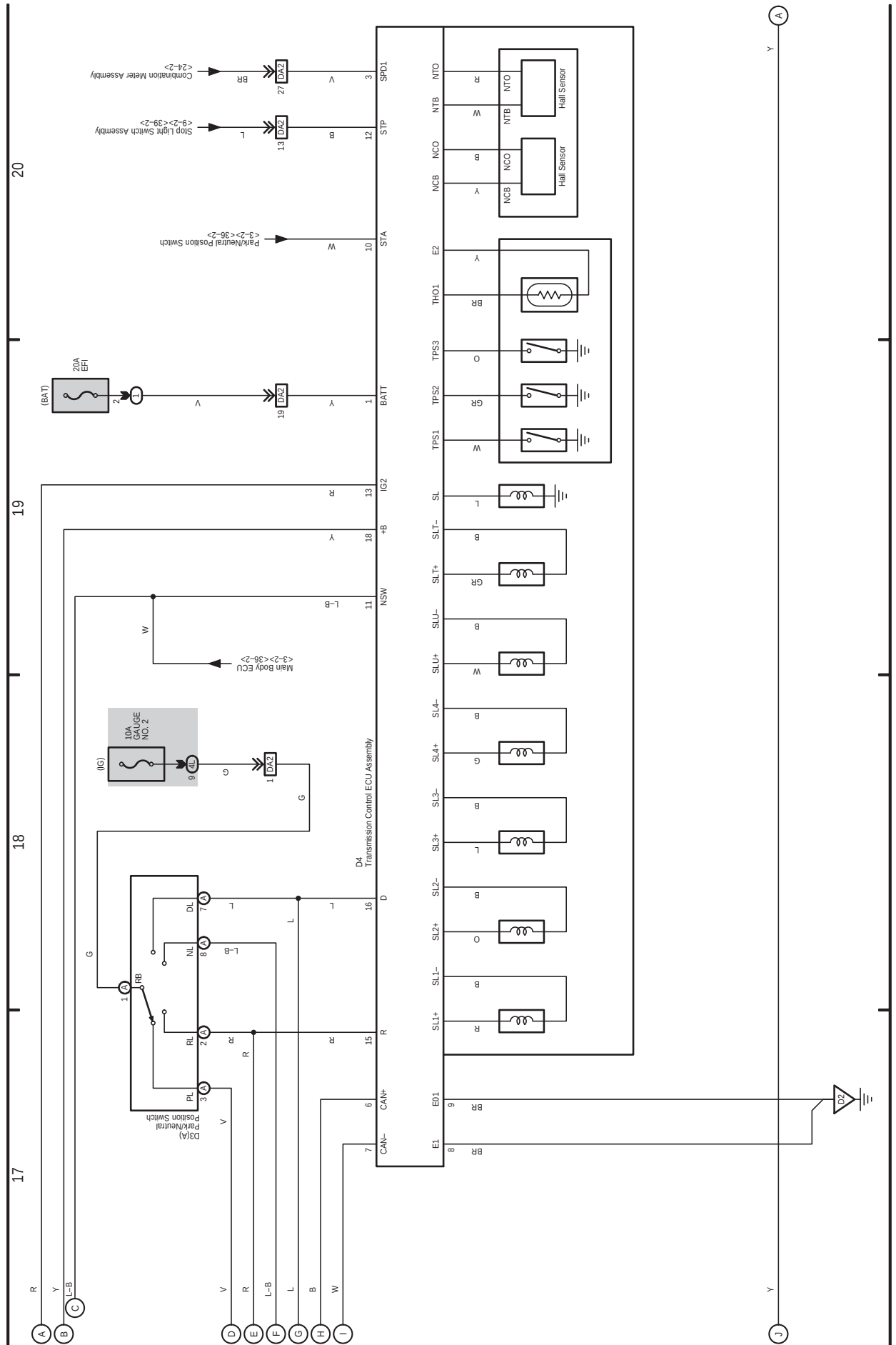


M OVERALL ELECTRICAL WIRING DIAGRAM

6 ALPHARD / VELLFIRE (Cont'd)

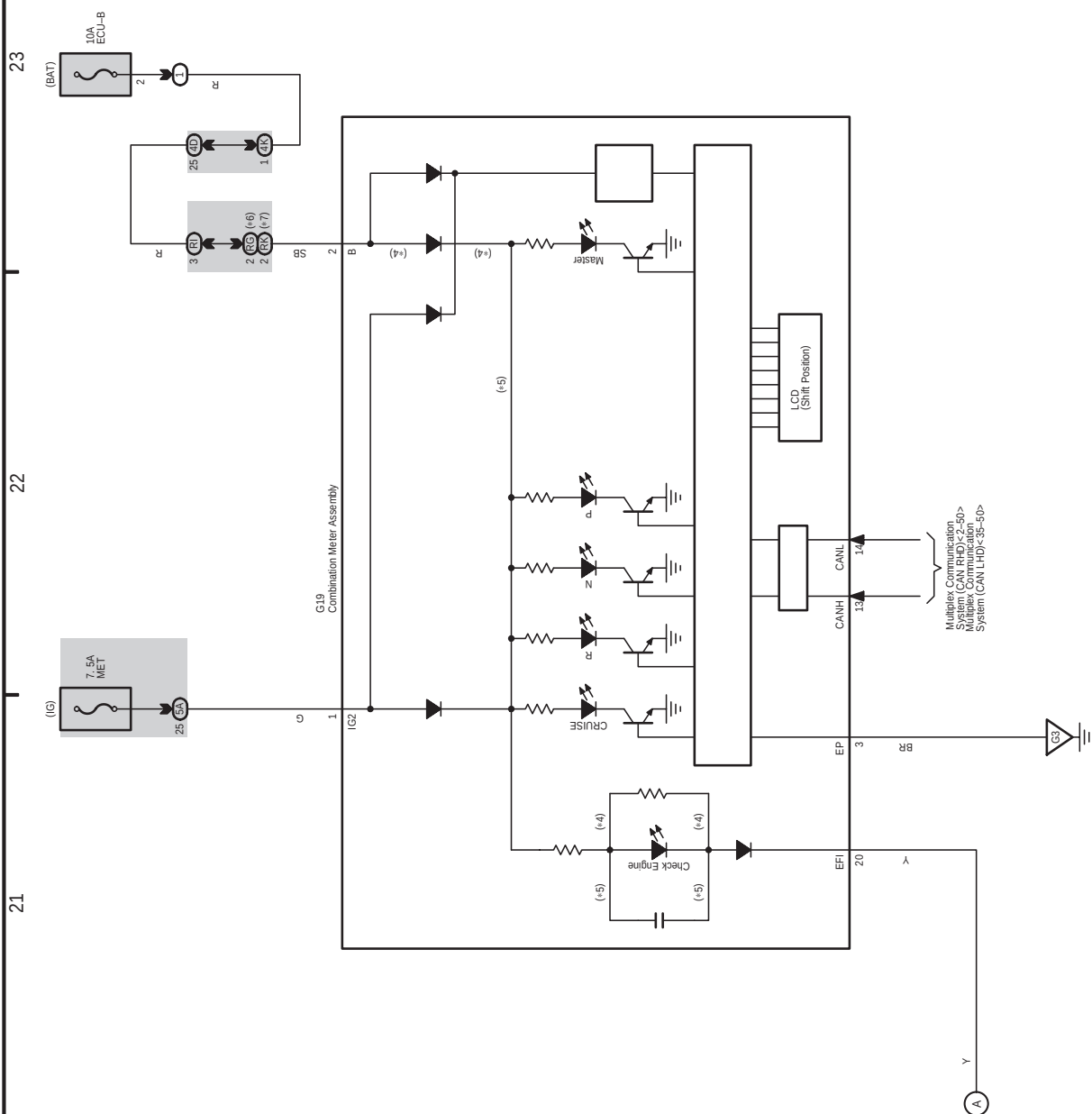
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ECT and A/T Indicator (2GR-FE)



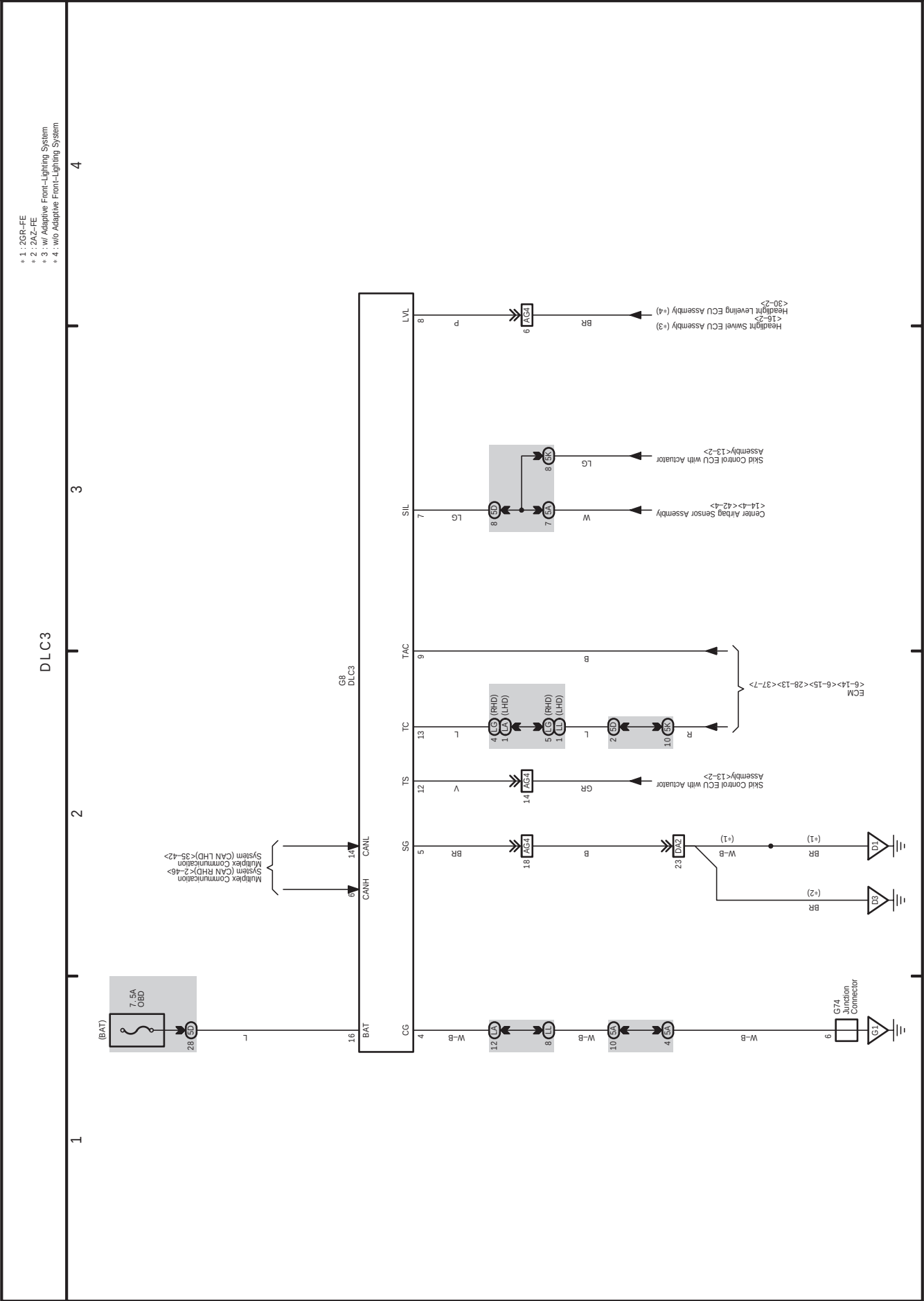
ECT and A/T Indicator (2GR-FE)

* 4 : Before Apr. 2010 Production
 * 5 : From Apr. 2010 Production
 * 6 : RHD, LHD Before Aug. 2010 Production
 * 7 : LHD From Aug. 2010 Production



M OVERALL ELECTRICAL WIRING DIAGRAM

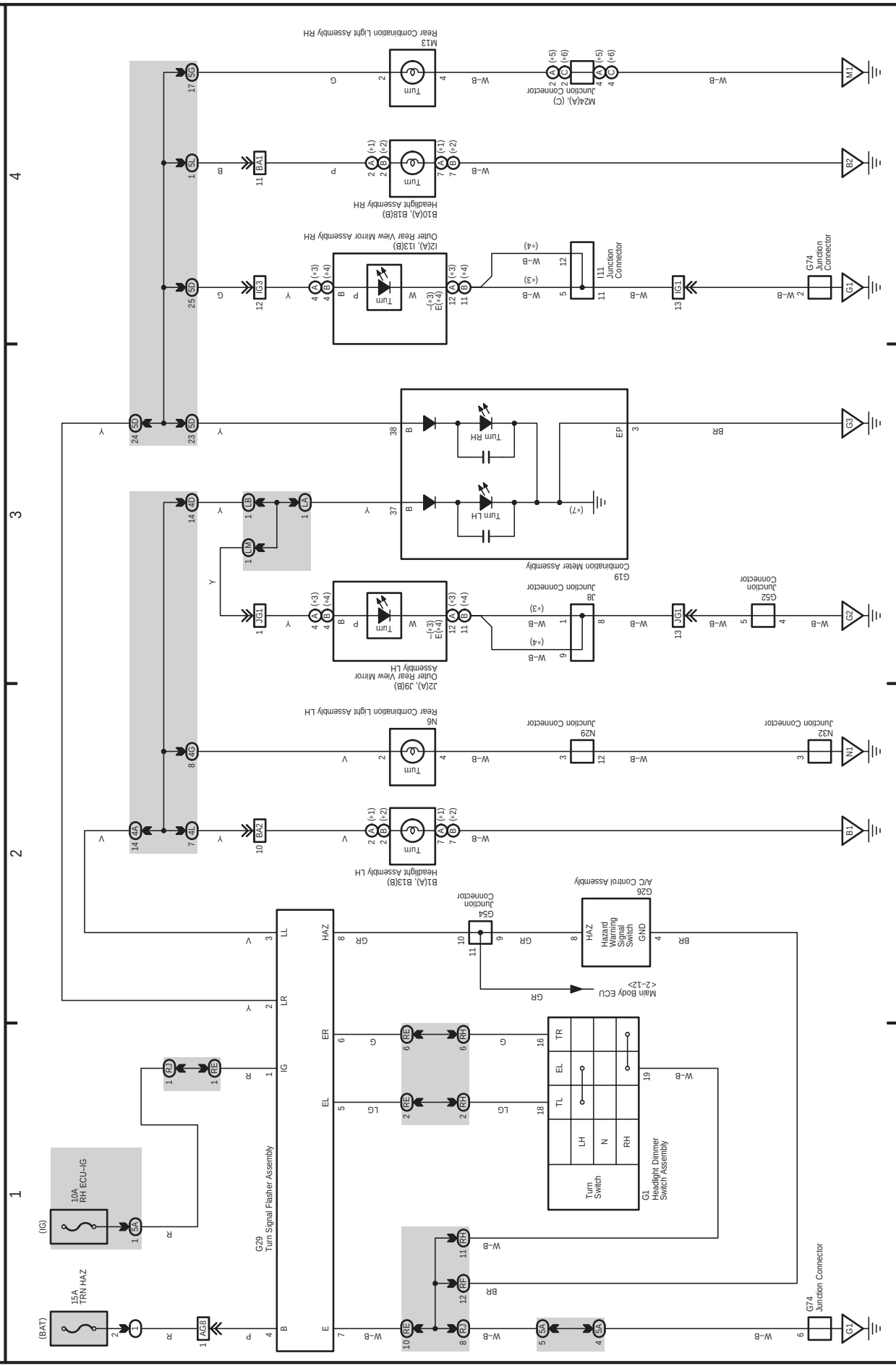
7 ALPHARD / VELLFIRE



8 ALPHARD / VELLFIRE

Turn Signal and Hazard Warning Light (RHD)

- * 1 : 2GR-FE
- * 2 : 2A2-FE
- * 3 : w/ Automatic Retractable
- * 4 : w/o Automatic Retractable
- * 5 : Before Jun. 2009 Production
- * 6 : From Jun. 2009 Production
- * 7 : Before Apr. 2010 Production



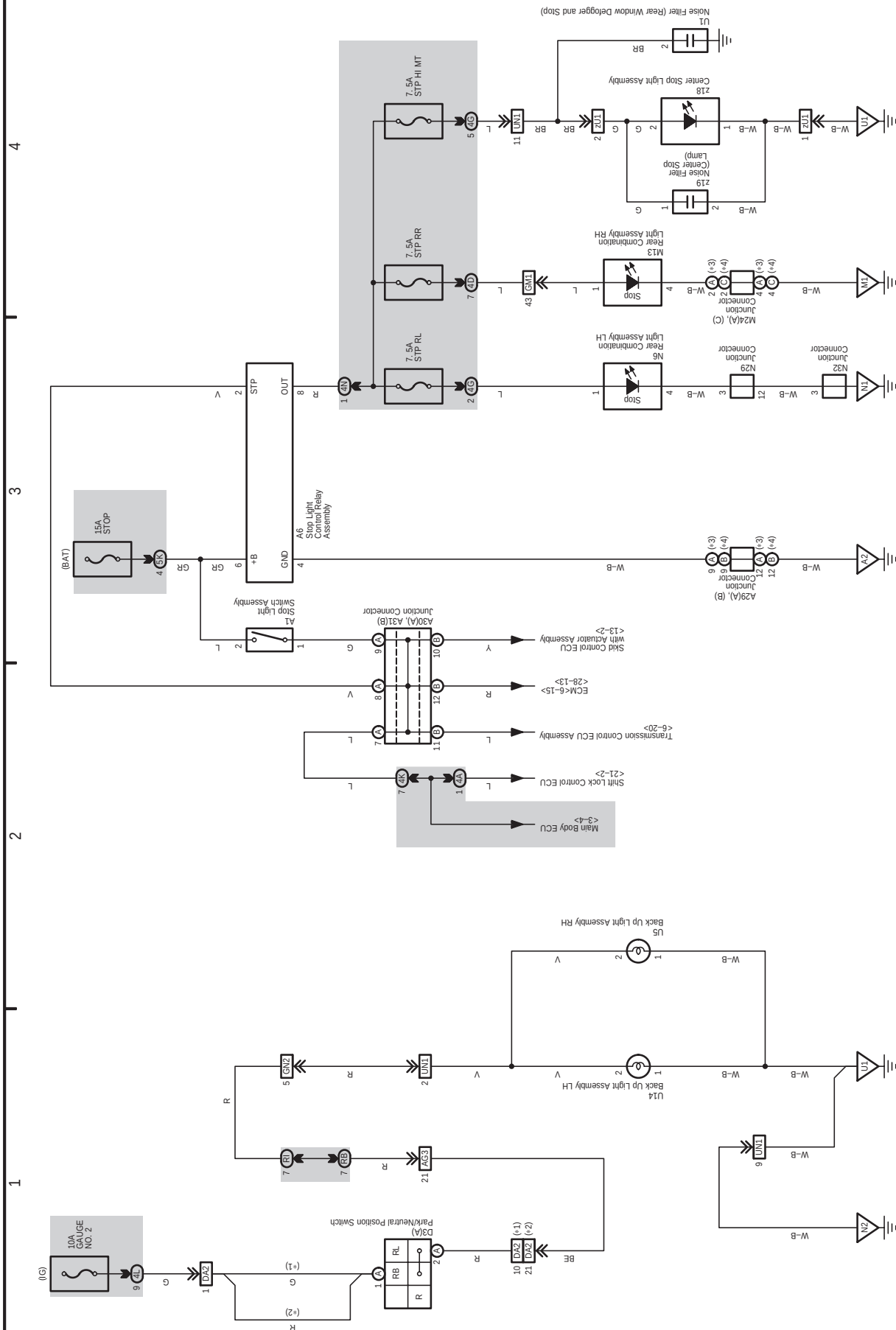
M OVERALL ELECTRICAL WIRING DIAGRAM

9 ALPHARD / VELLFIRE

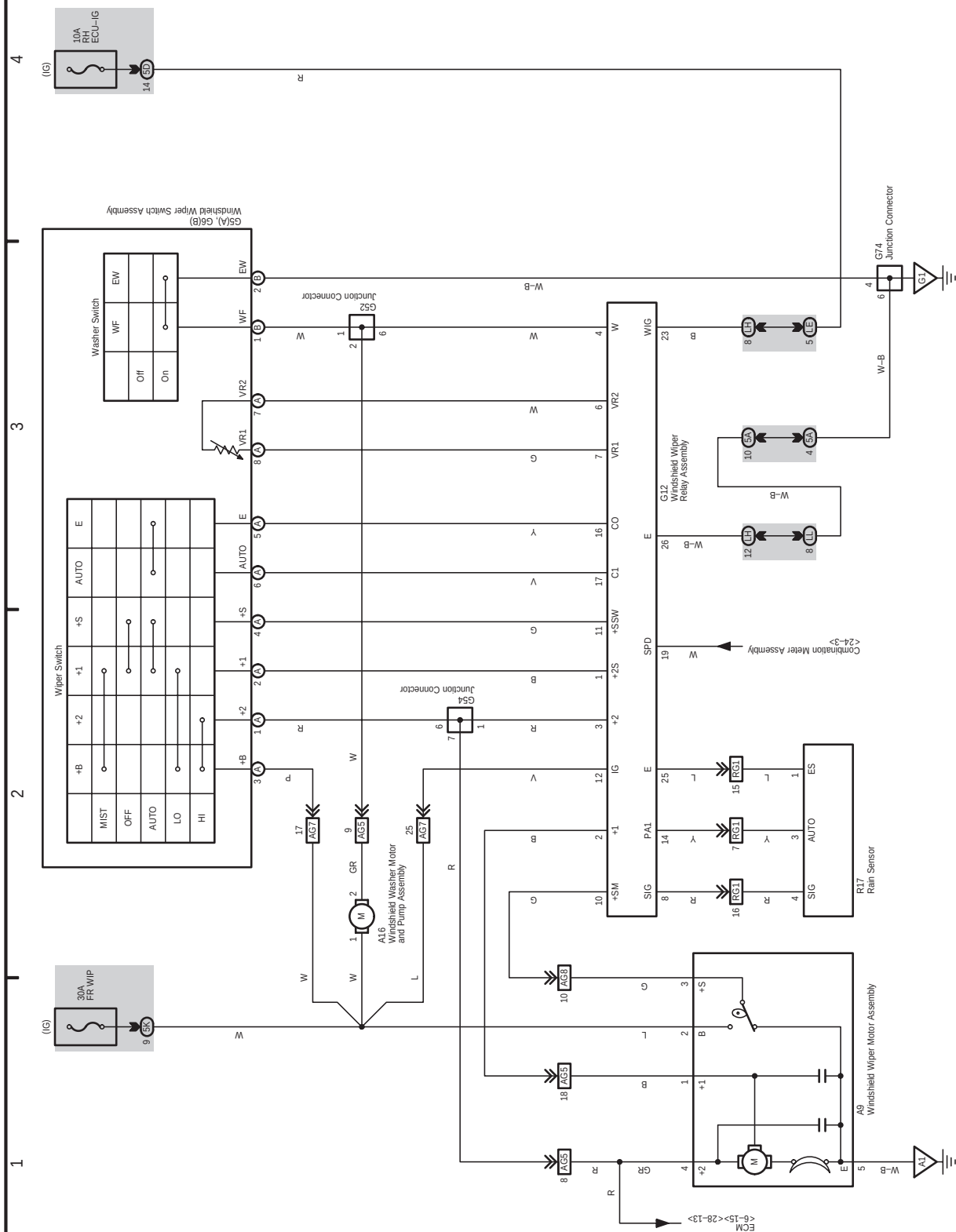
Back-Up Light (RHD)

Stop Light (RHD)

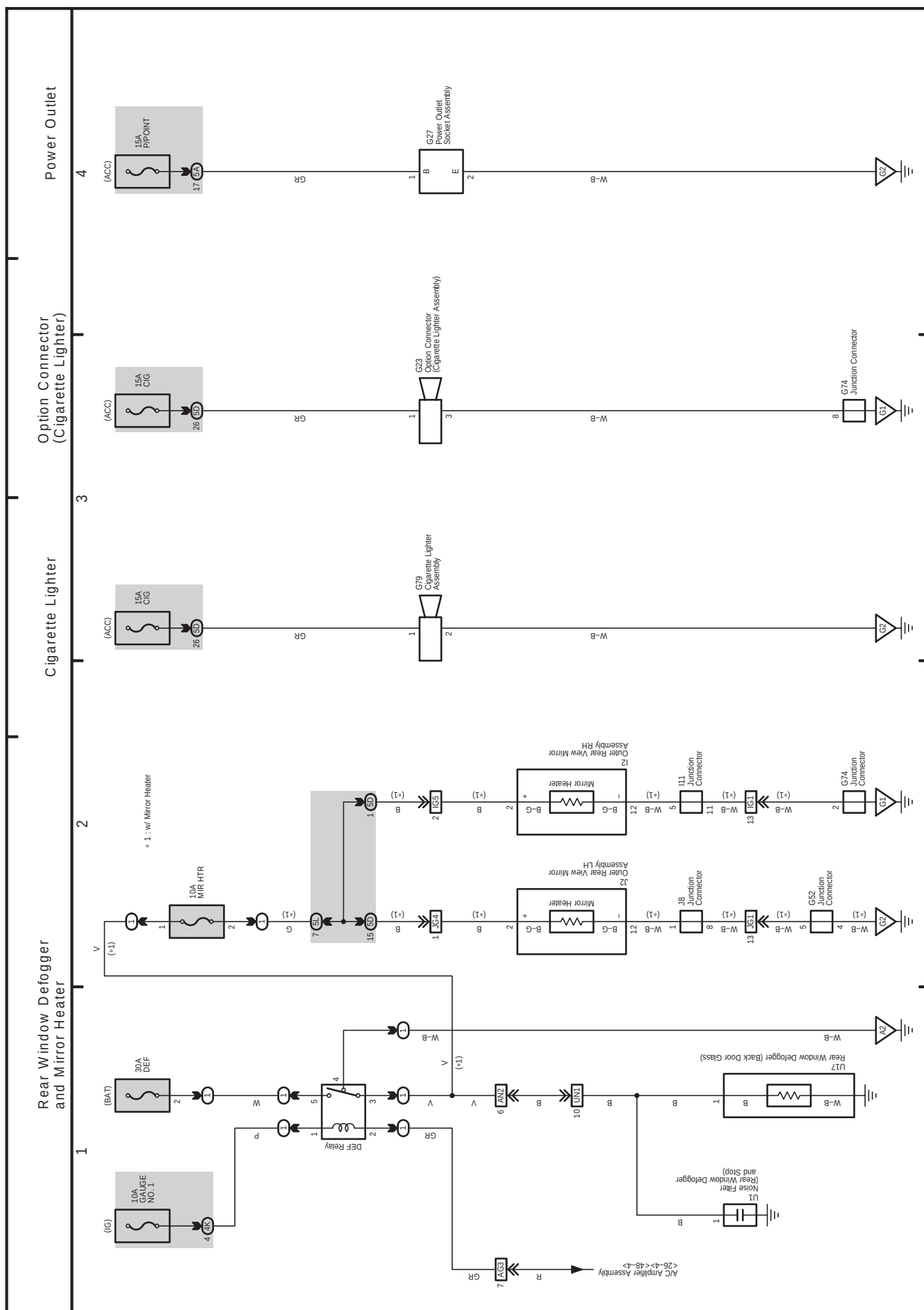
- * 1 : 2GR-FE
- * 2 : 2AZ-FE
- * 3 : Before Jun. 2009 Production
- * 4 : From Jun. 2009 Production

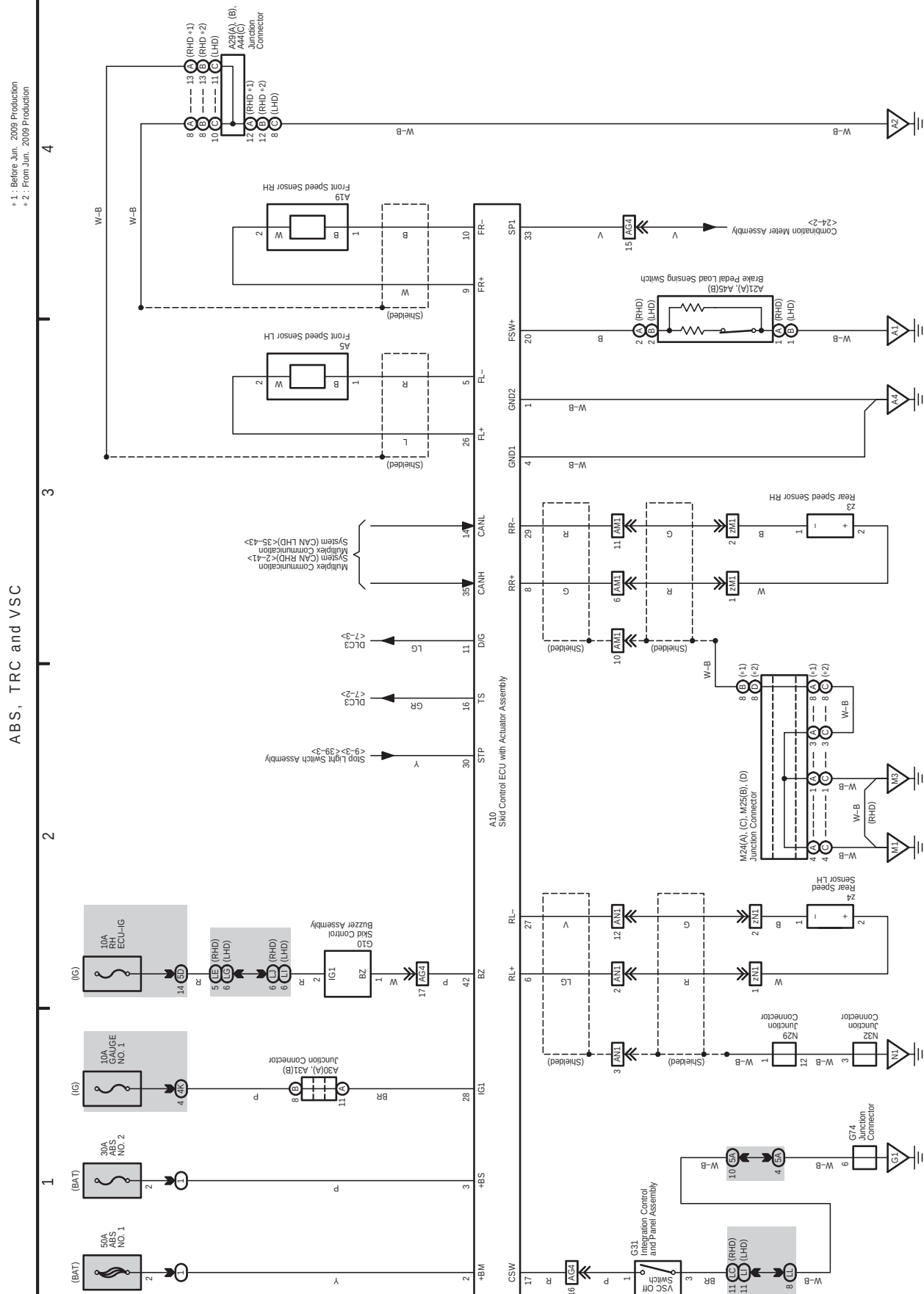


Front Wiper and Washer (RHD w/ Auto Wiper System)

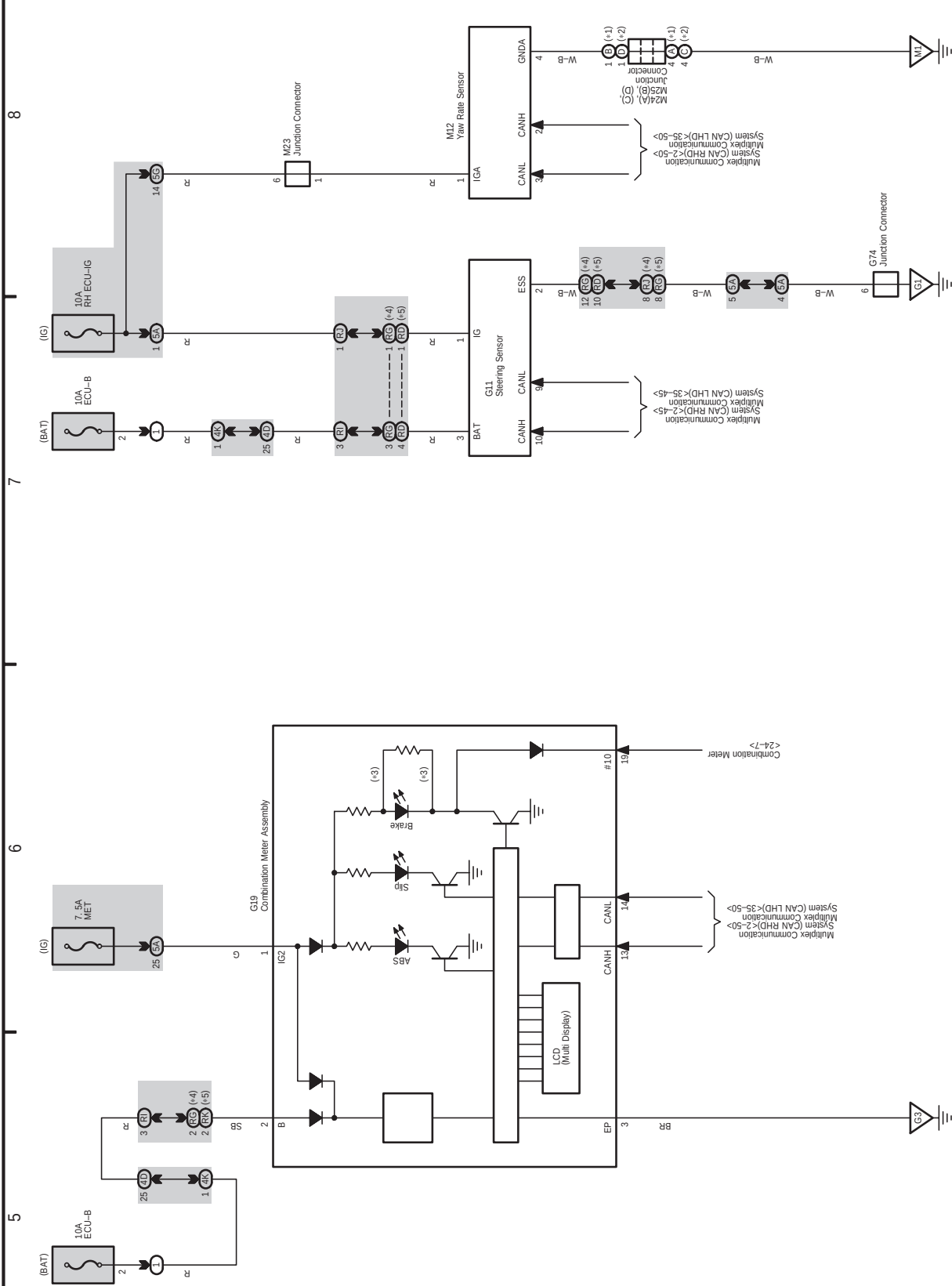








ABS, TRC and VSC

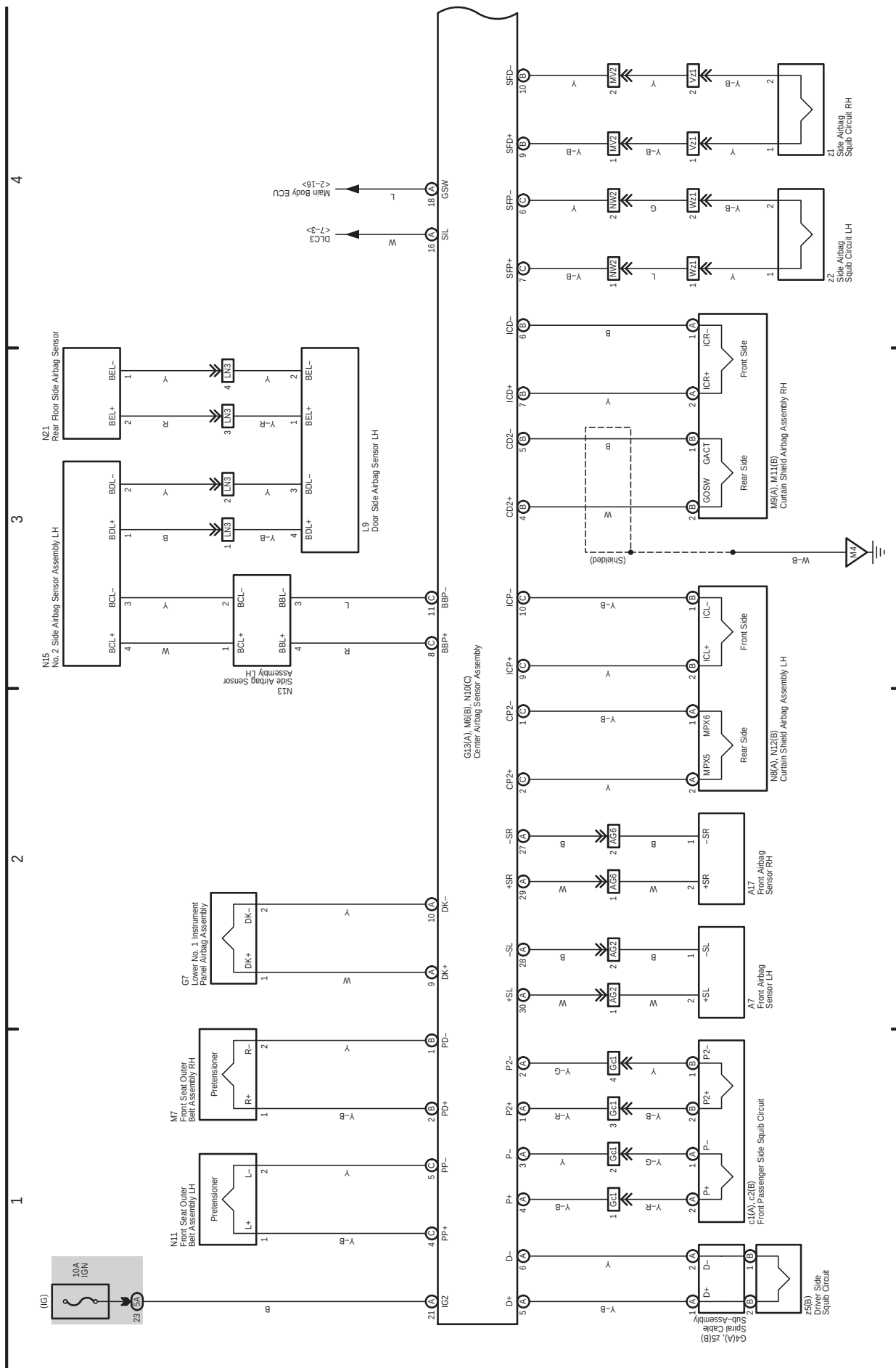


M OVERALL ELECTRICAL WIRING DIAGRAM

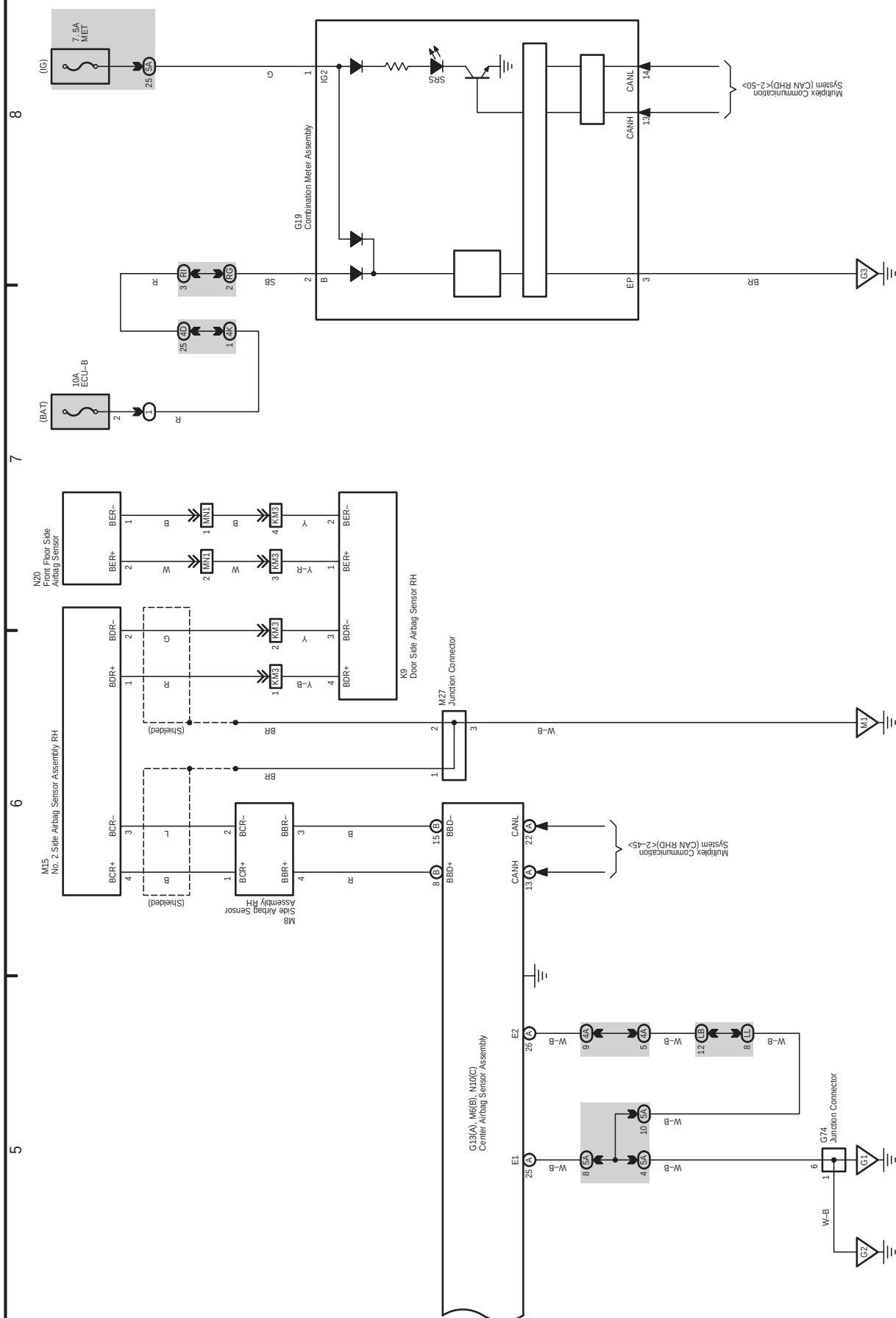
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14 ALPHARD / VELLFIRE

SRS (RHD)



SRS (RHD)

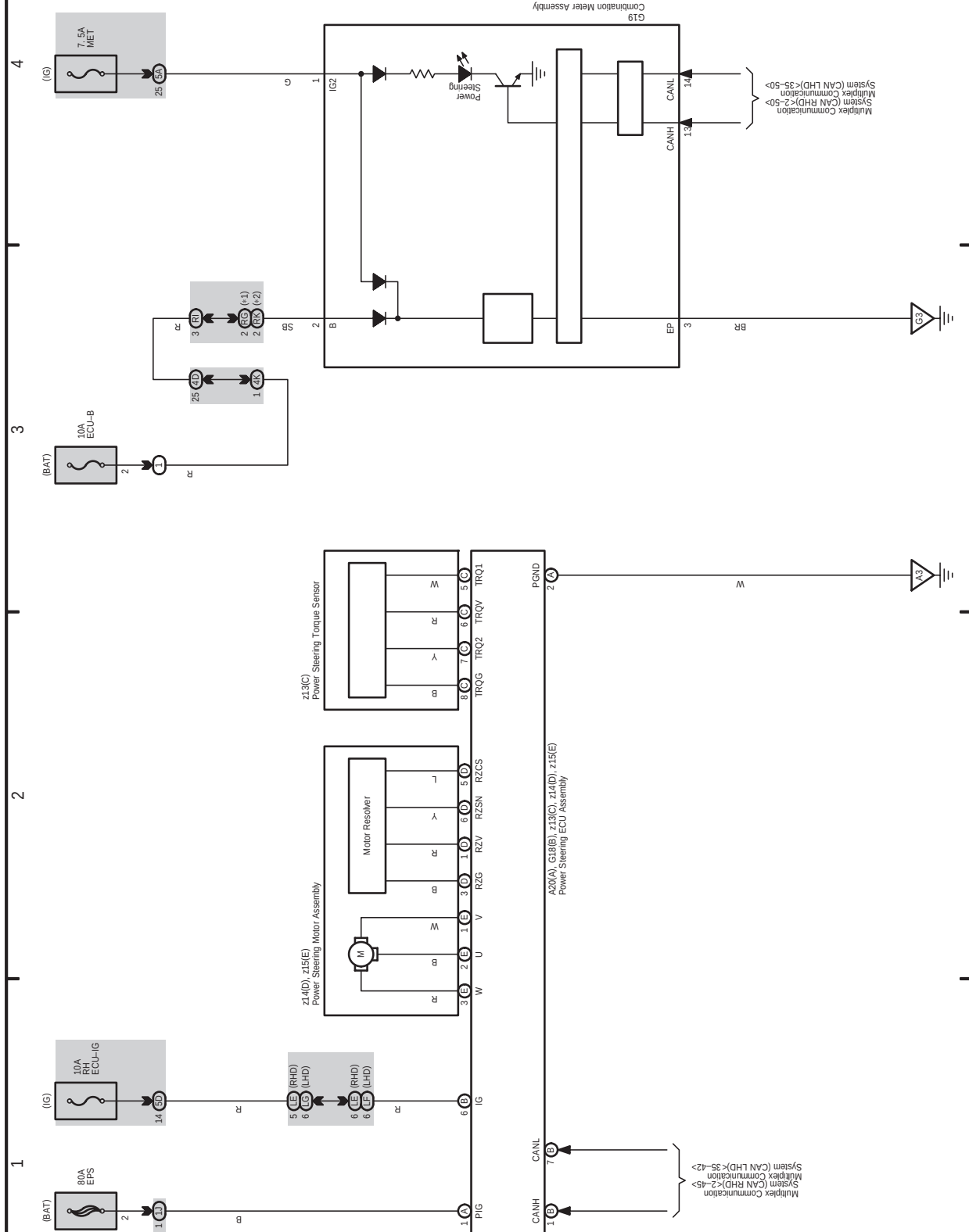


M OVERALL ELECTRICAL WIRING DIAGRAM

15 ALPHARD / VELLFIRE

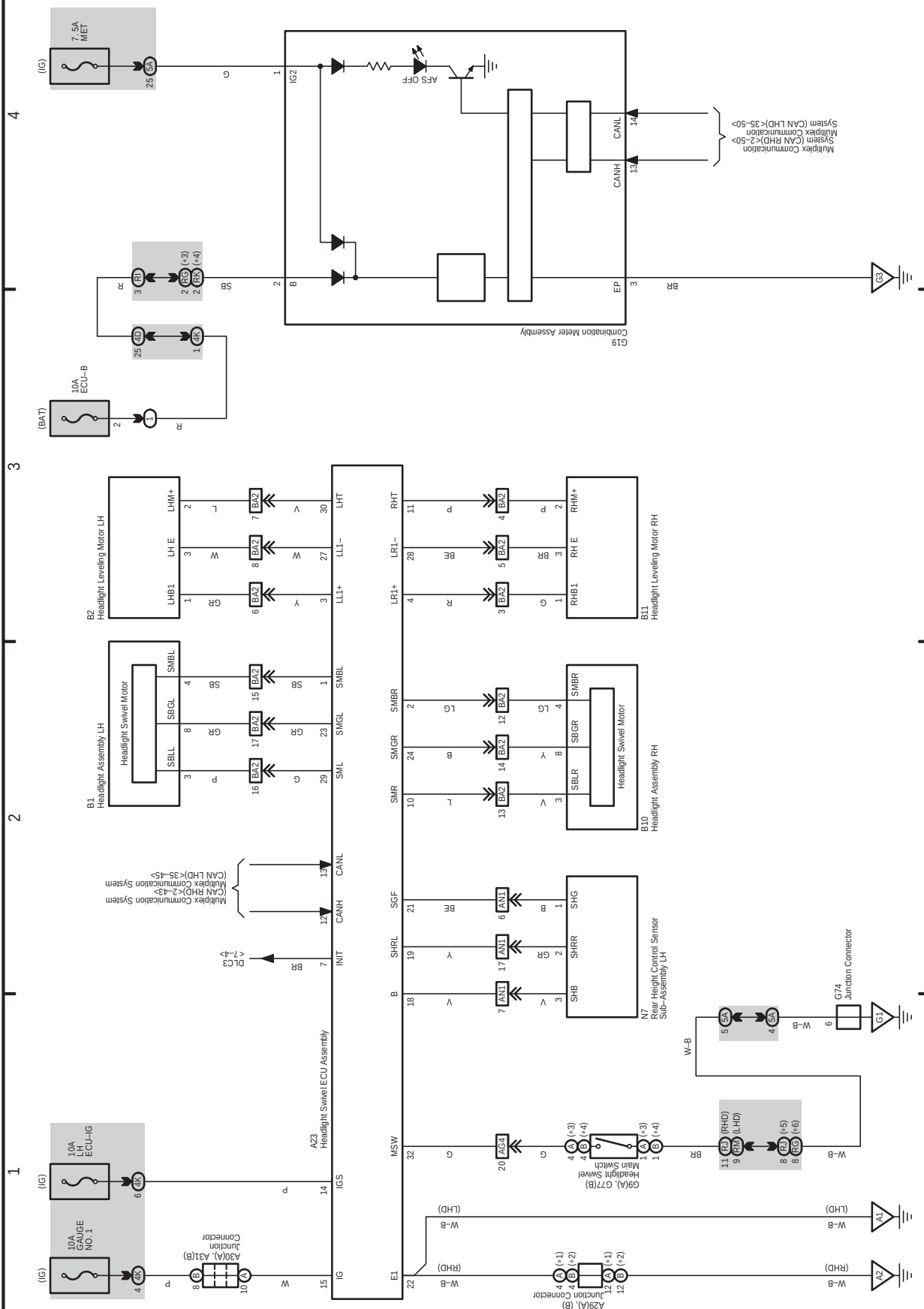
* 1 : RHD, LHD Before Aug. 2010 Production
* 2 : LHD From Aug. 2010 Production

EPS

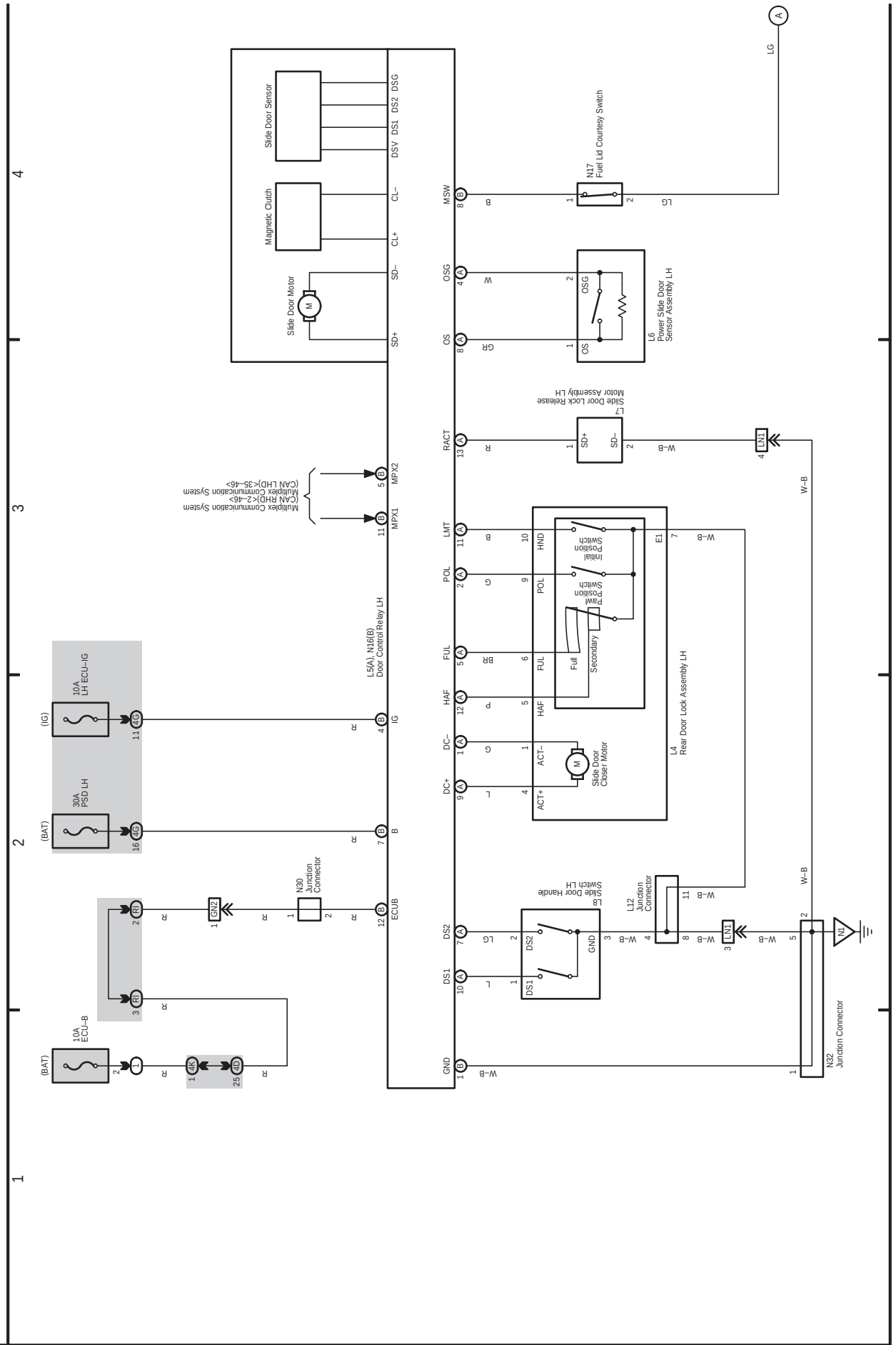


Adaptive Front-Lighting System

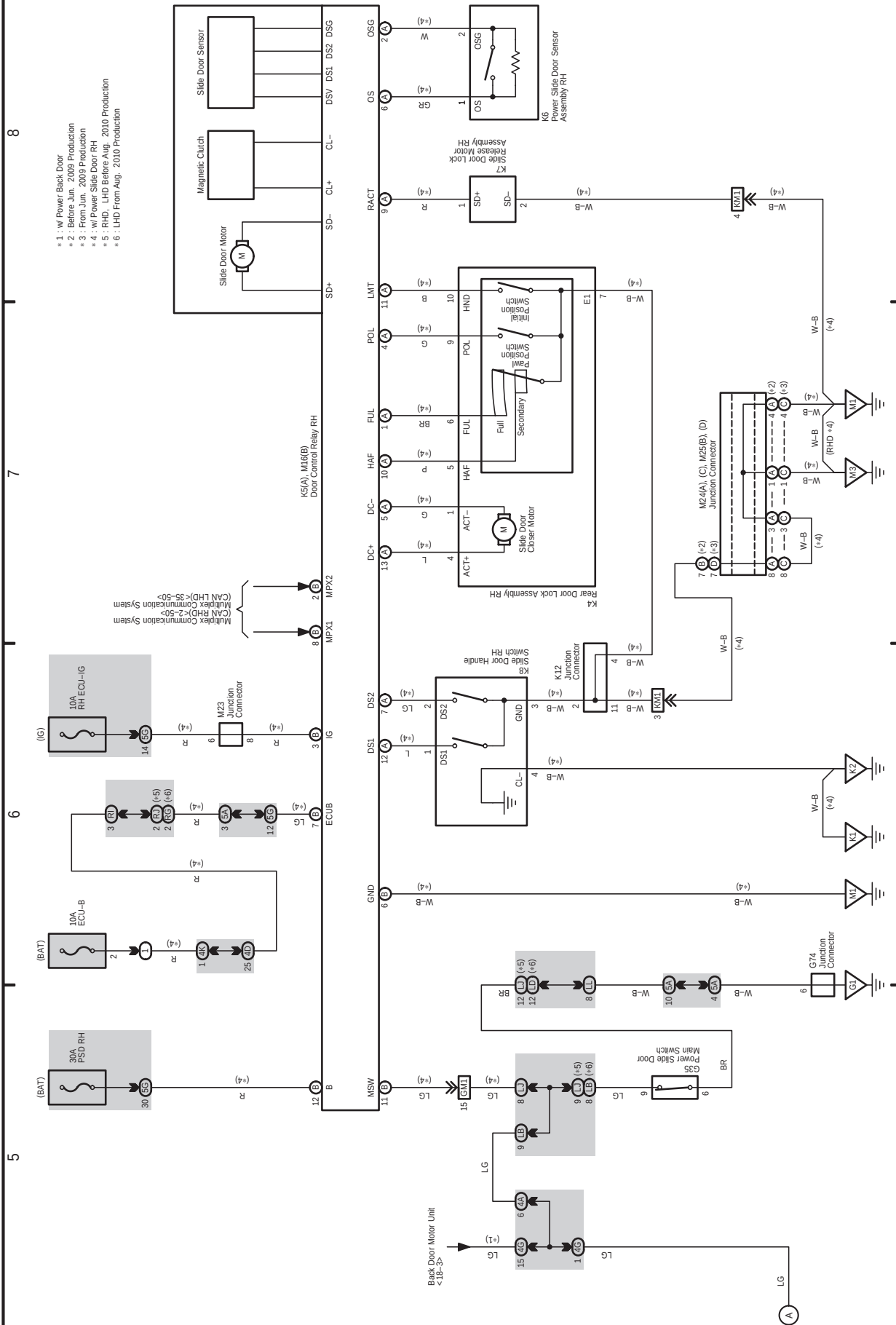
* 1 : Before Jun. 2009 Production
 * 2 : From Jun. 2009 Production
 * 3 : RHD Before Aug. 2010 Production
 * 4 : LHD, RHD From Aug. 2010 Production
 * 5 : RHD, LHD Before Aug. 2010 Production
 * 6 : LHD From Aug. 2010 Production



Power Slide Door and Slide Door Closer (w/ Power Slide Door)



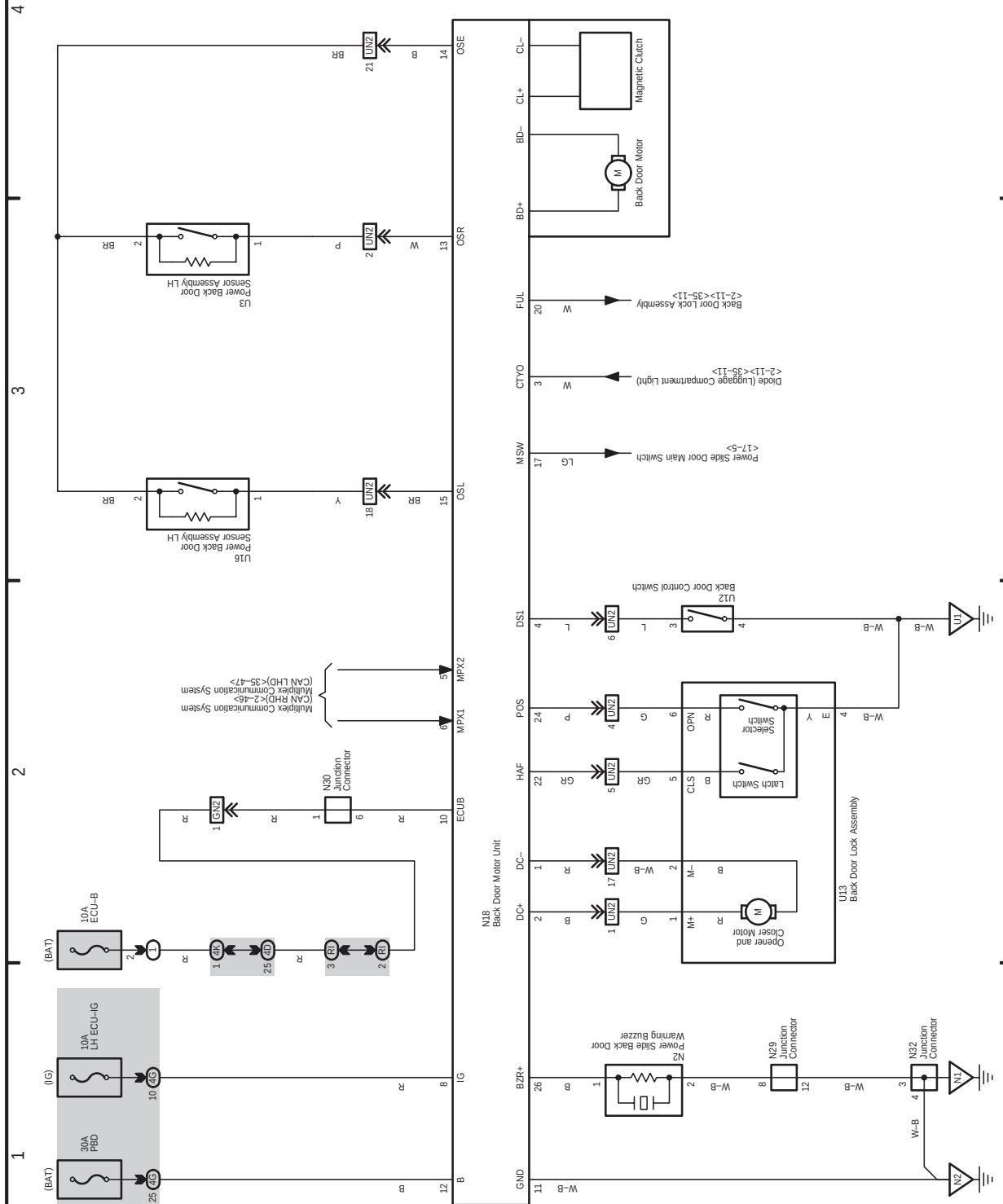
Power Slide Door and Slide Door Closer (w/ Power Slide Door)



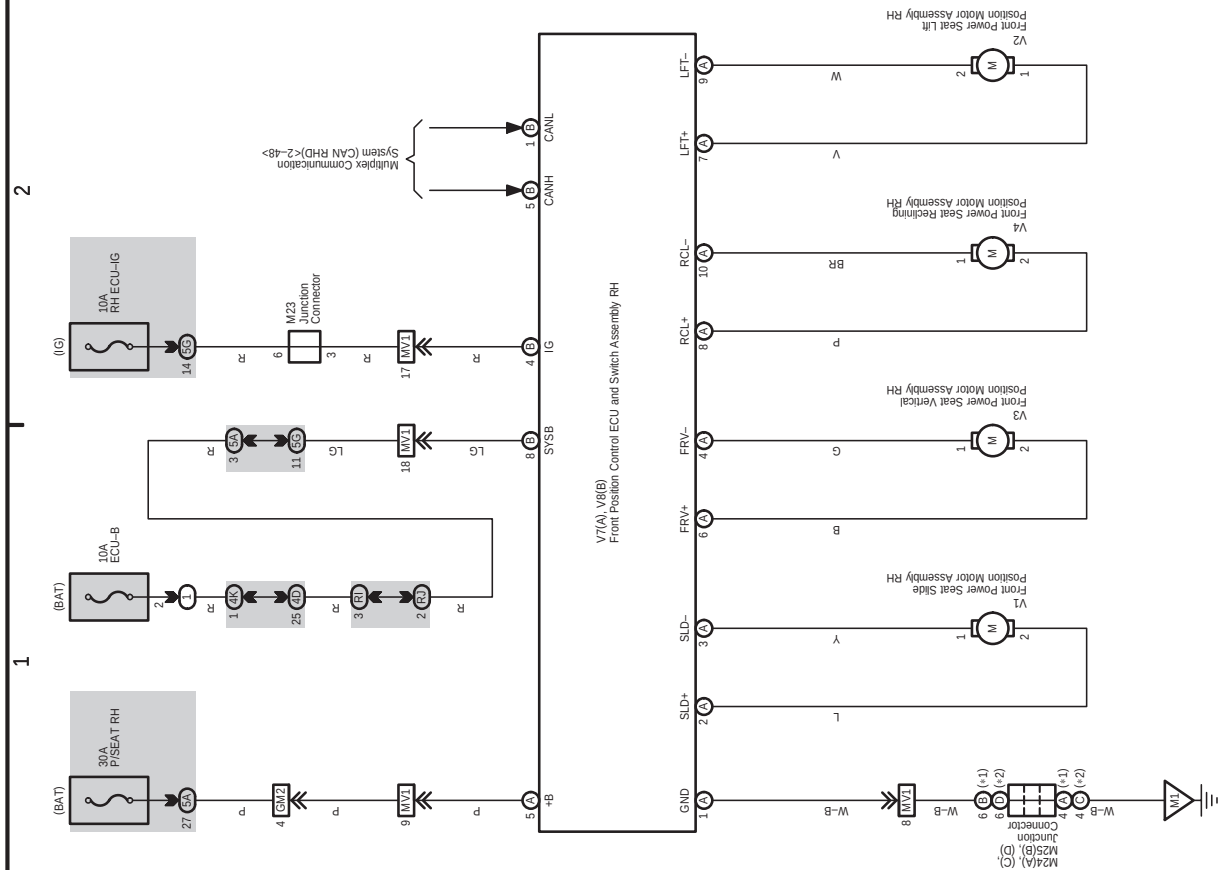
M OVERALL ELECTRICAL WIRING DIAGRAM

18 ALPHARD / VELLFIRE

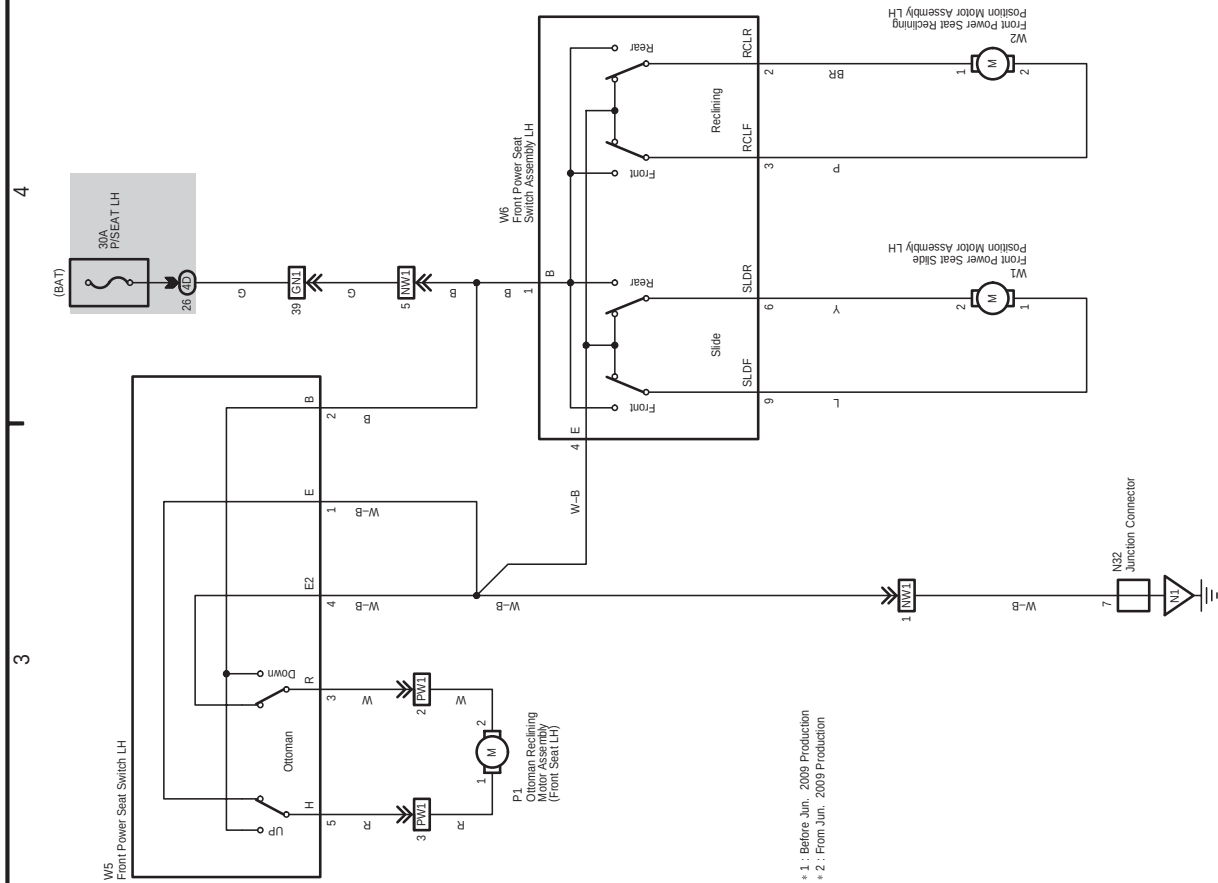
Power Back Door and Back Door Closer (w/ Power Back Door)



Power Seat (RHD Driver's Seat)



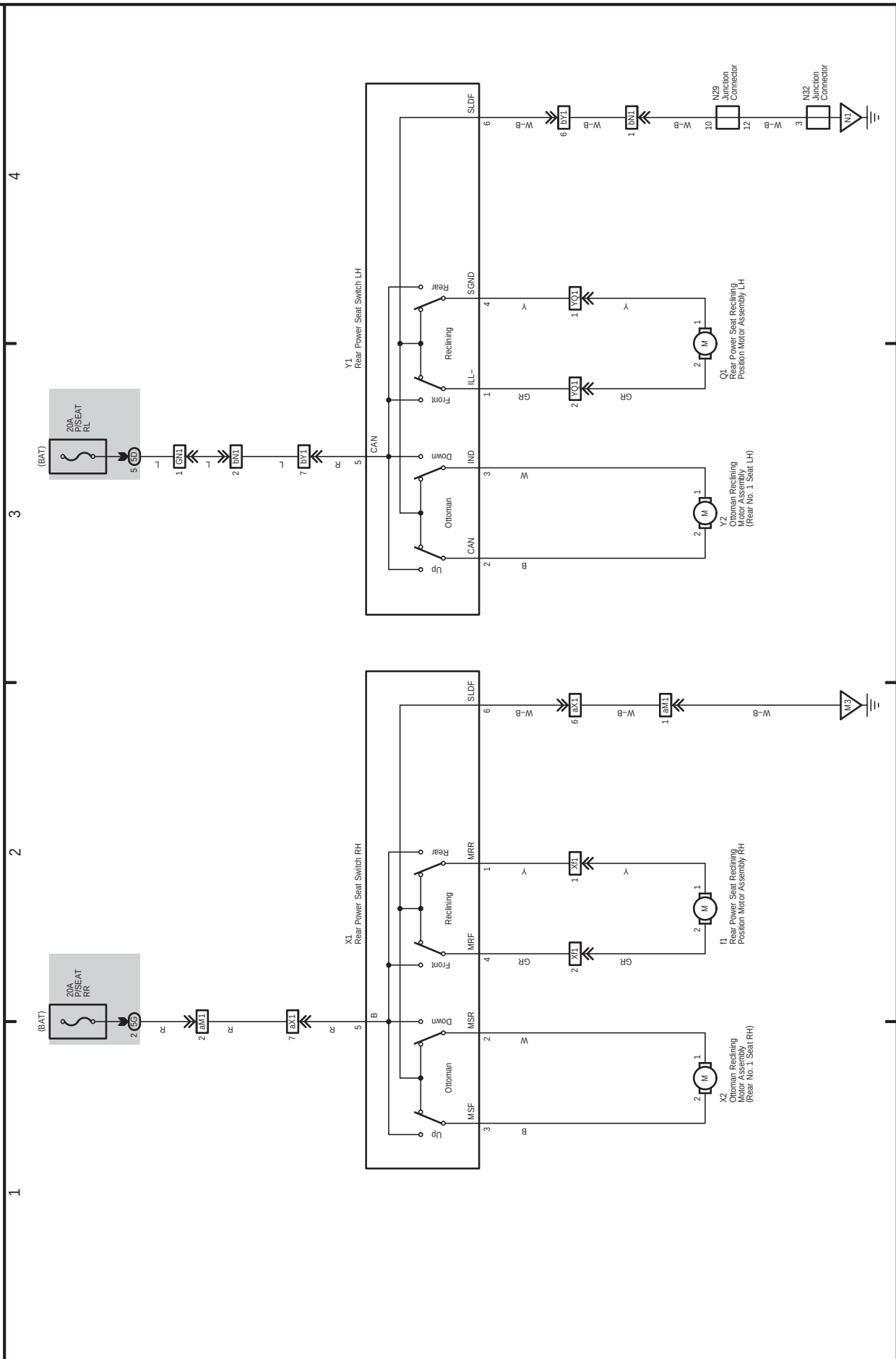
Power Seat (RHD Front Passenger's Seat)

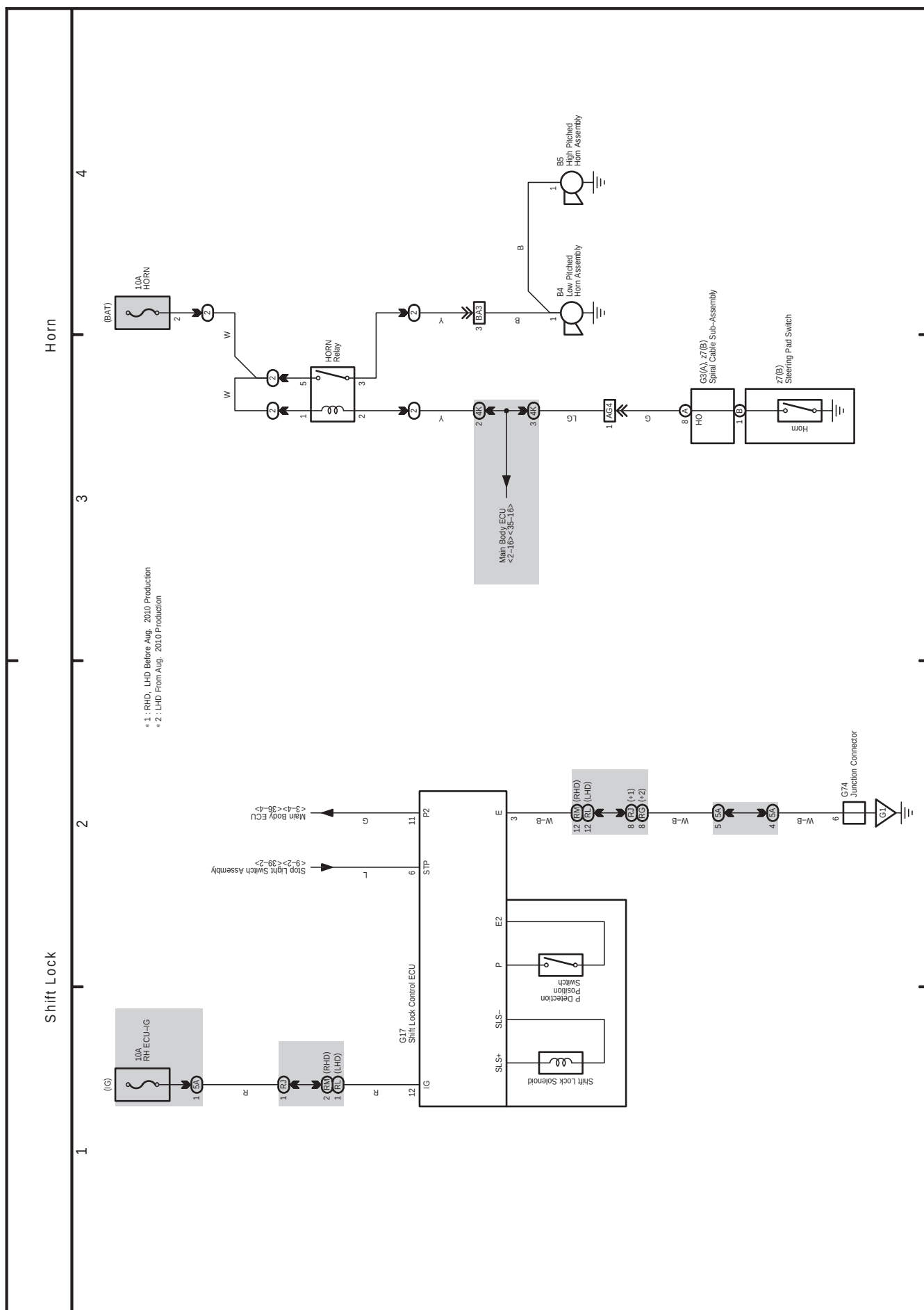


M OVERALL ELECTRICAL WIRING DIAGRAM

20 ALPHARD / VELLFIRE

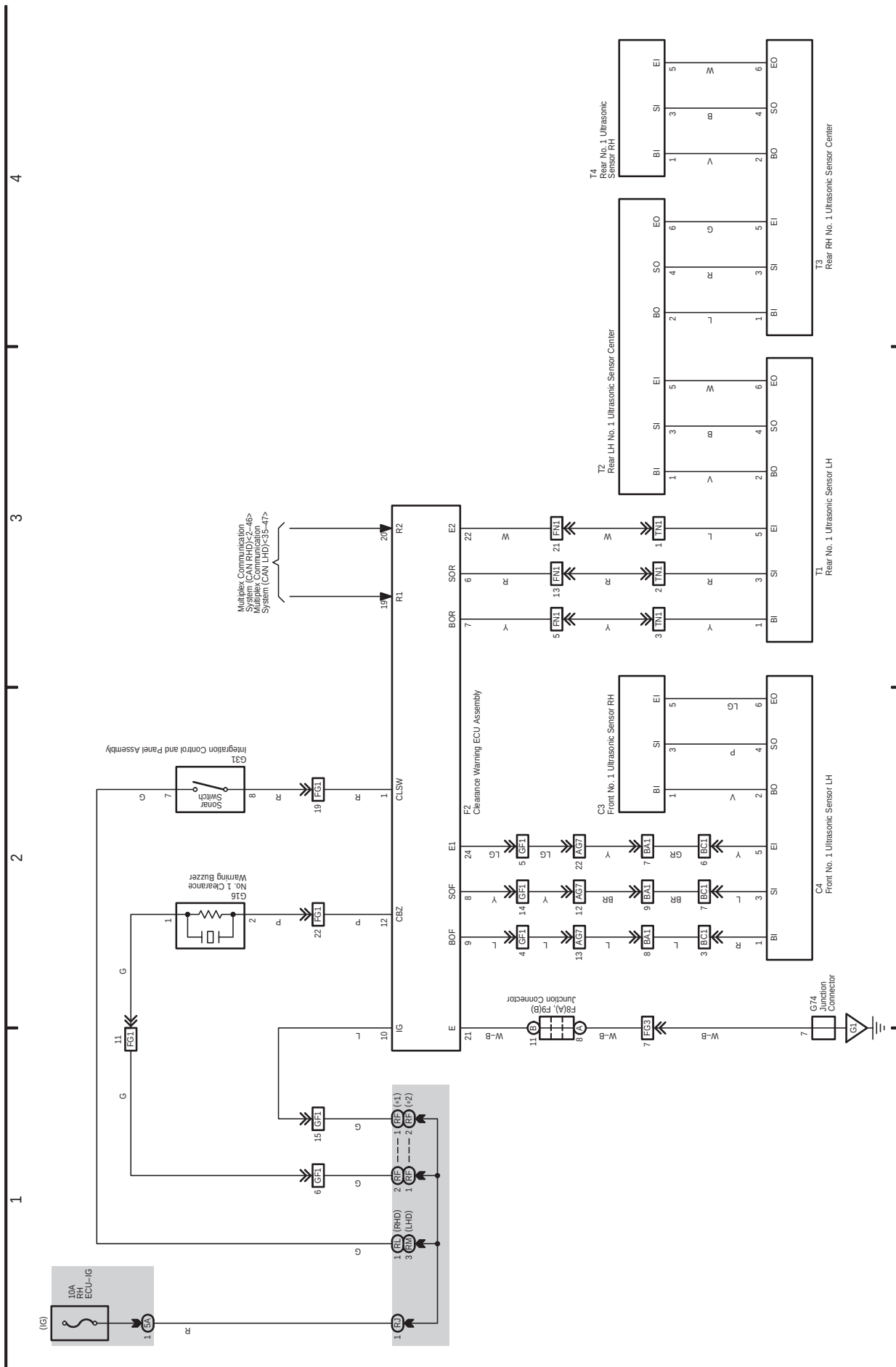
Power Seat (Rear No. 1 Seat)



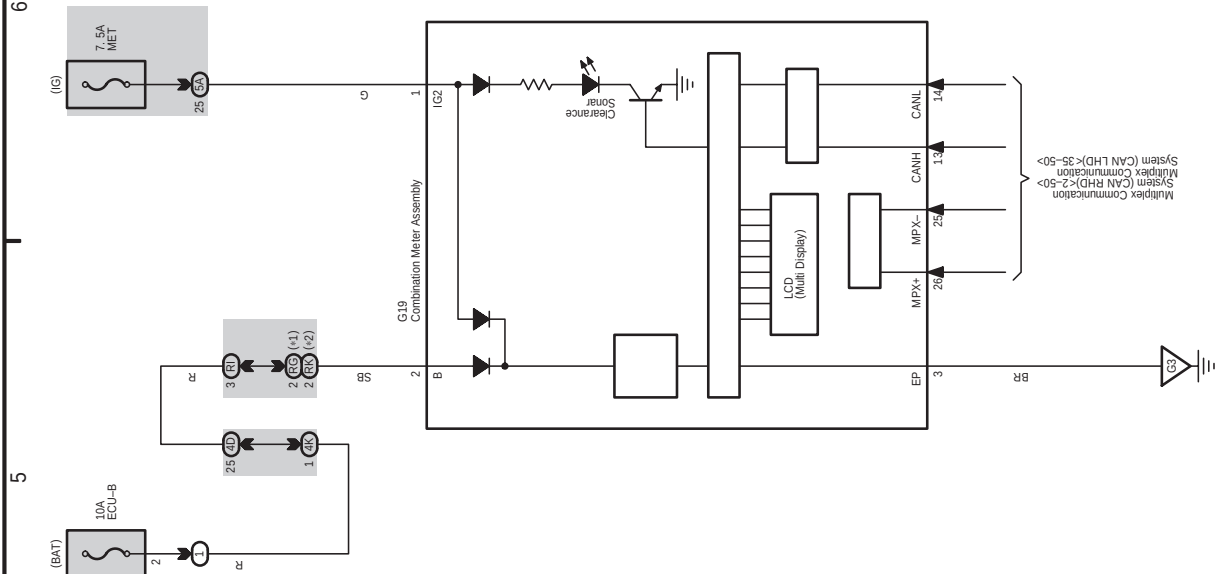


Parking Assist (TOYOTA Parking Assist-Sensor w/o Back Guide Monitor)

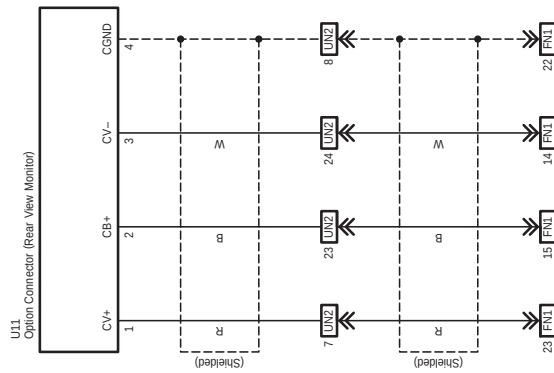
* 1 : RHD, LHD Before Aug. 2010 Production
* 2 : LHD From Aug. 2010 Production



Parking Assist (TOYOTA Parking Assist-Sensor w/o Back Guide Monitor)

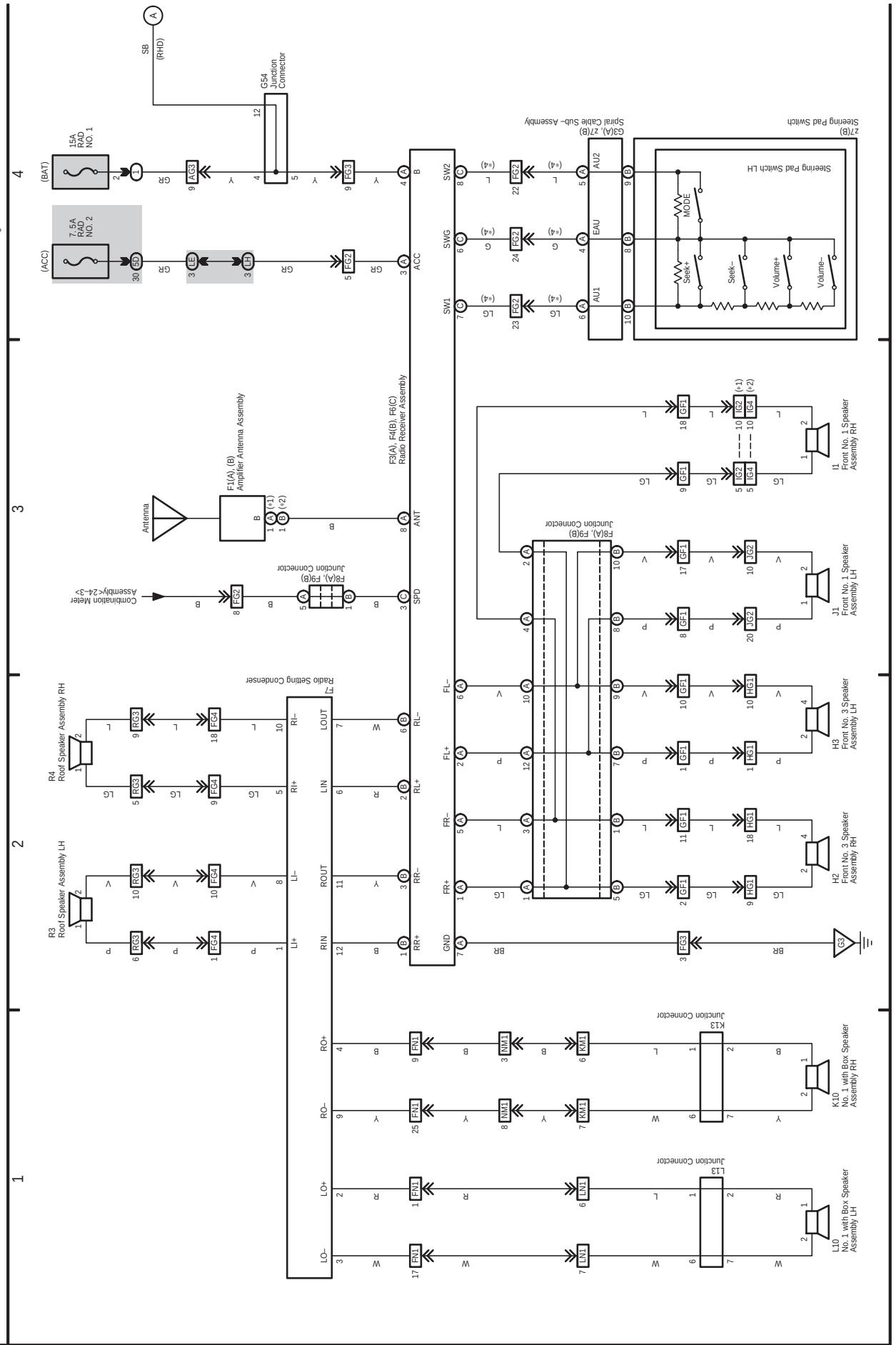


Option Connector (Rear View Monitor)

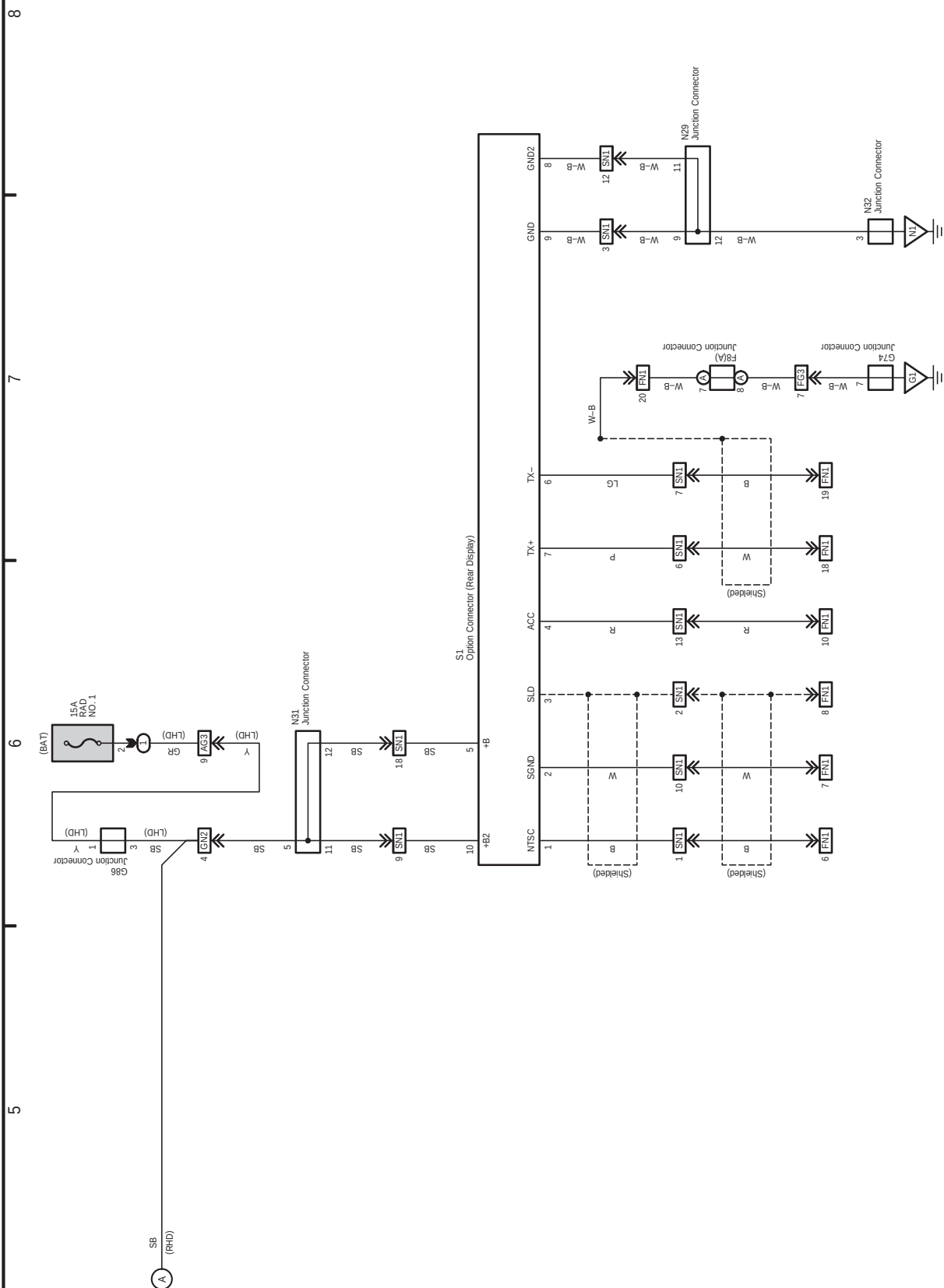


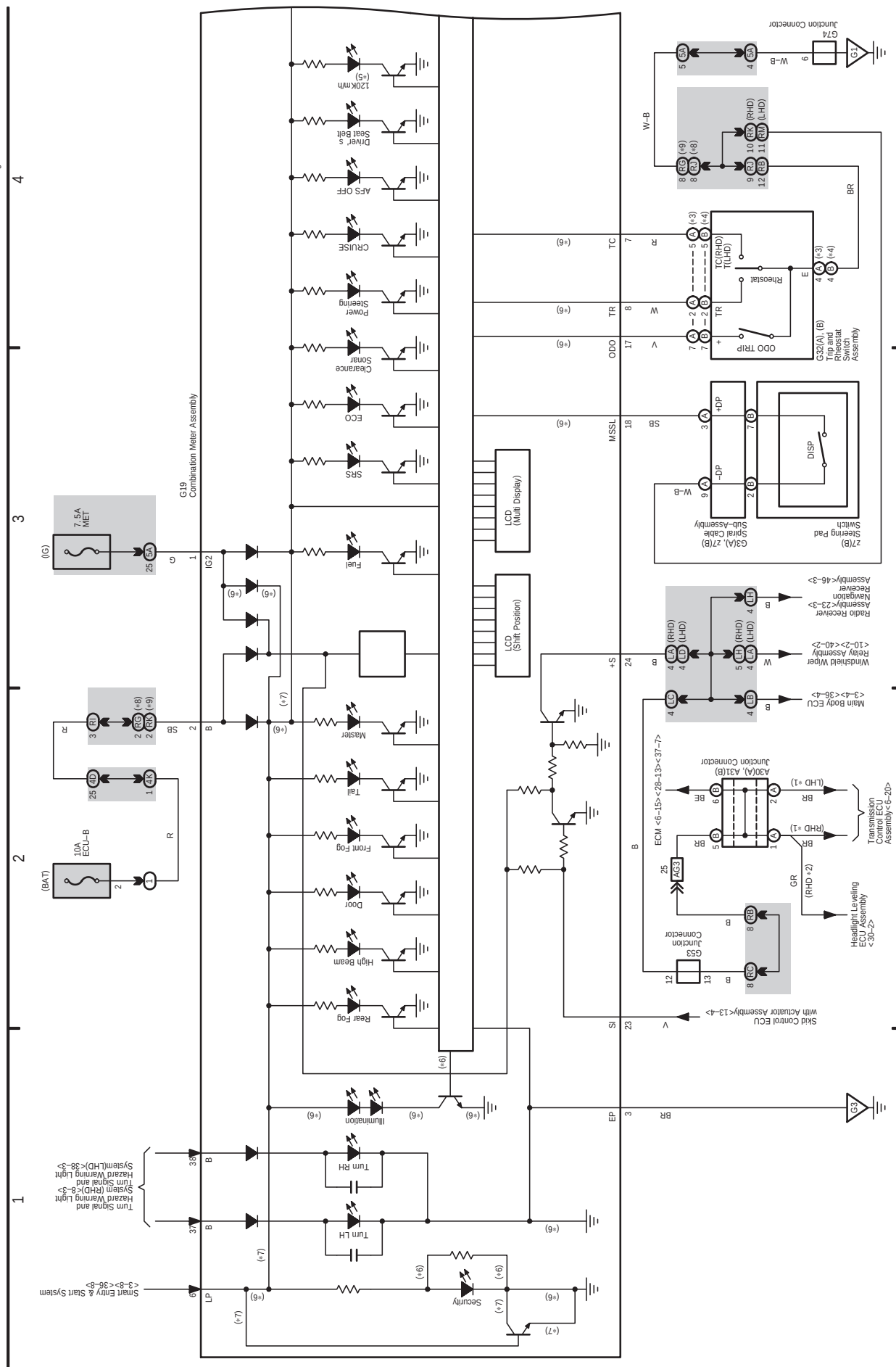
* 1 : Before Jun. 2009 Production
 * 2 : From Jun. 2009 Production
 * 4 : w/ Steering Pad Switch

Audio System (RHD)

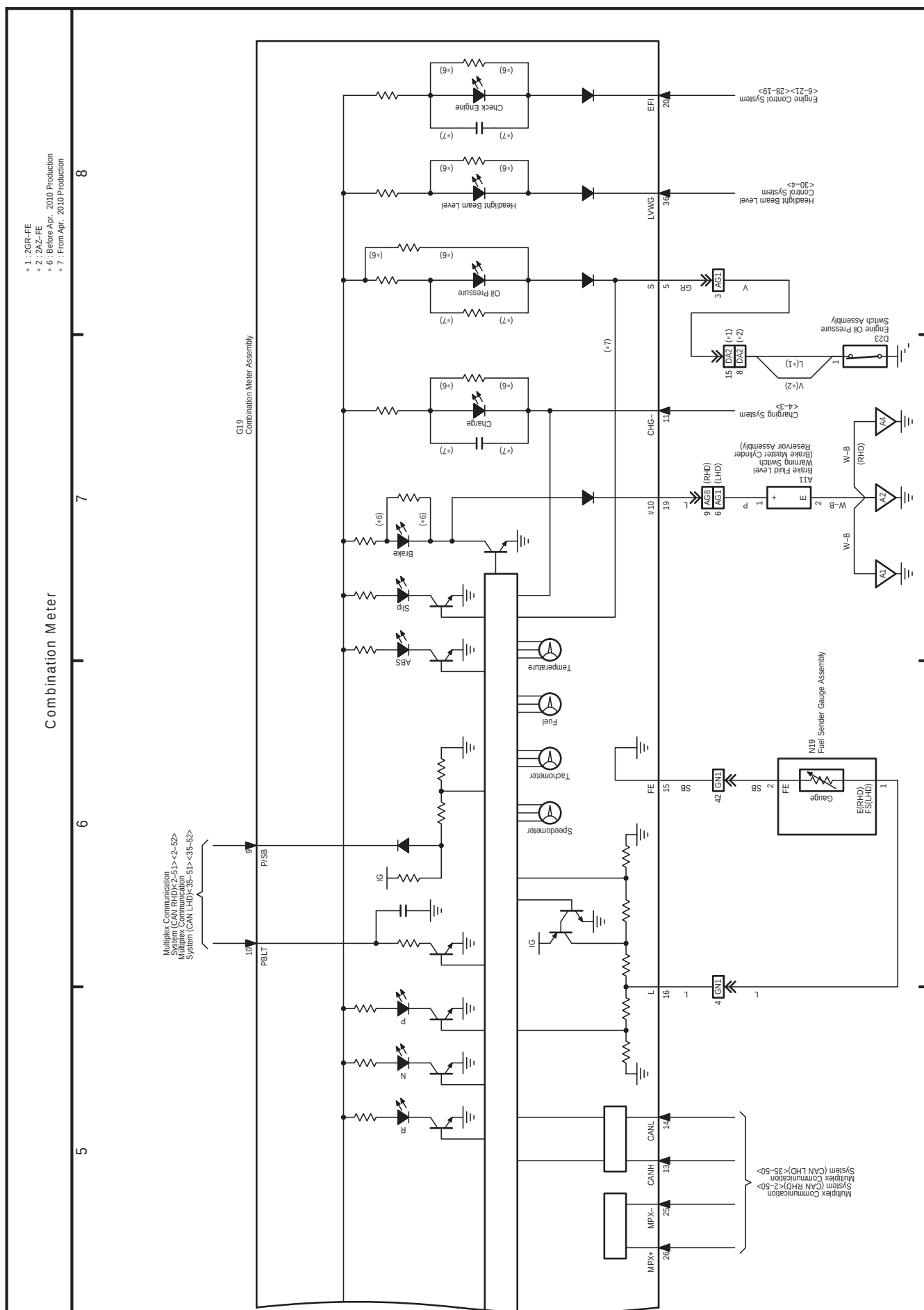


Option Connector (Rear Display)





24 ALPHARD / VELLFIRE (Cont' d)



M OVERALL ELECTRICAL WIRING DIAGRAM

25 ALPHARD / VELLFIRE

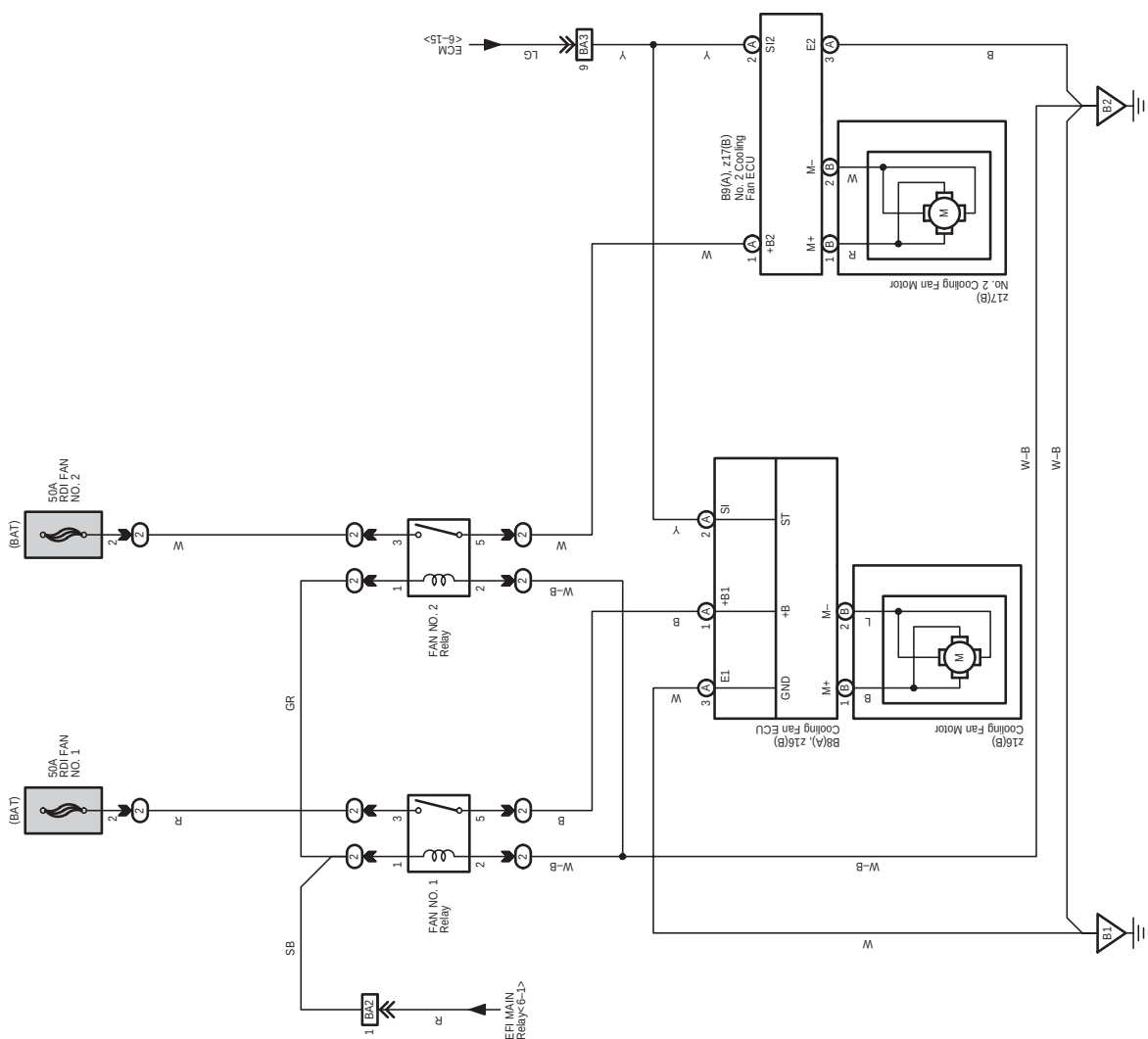
Cooling Fan (2GR-FE)

4

3

2

1



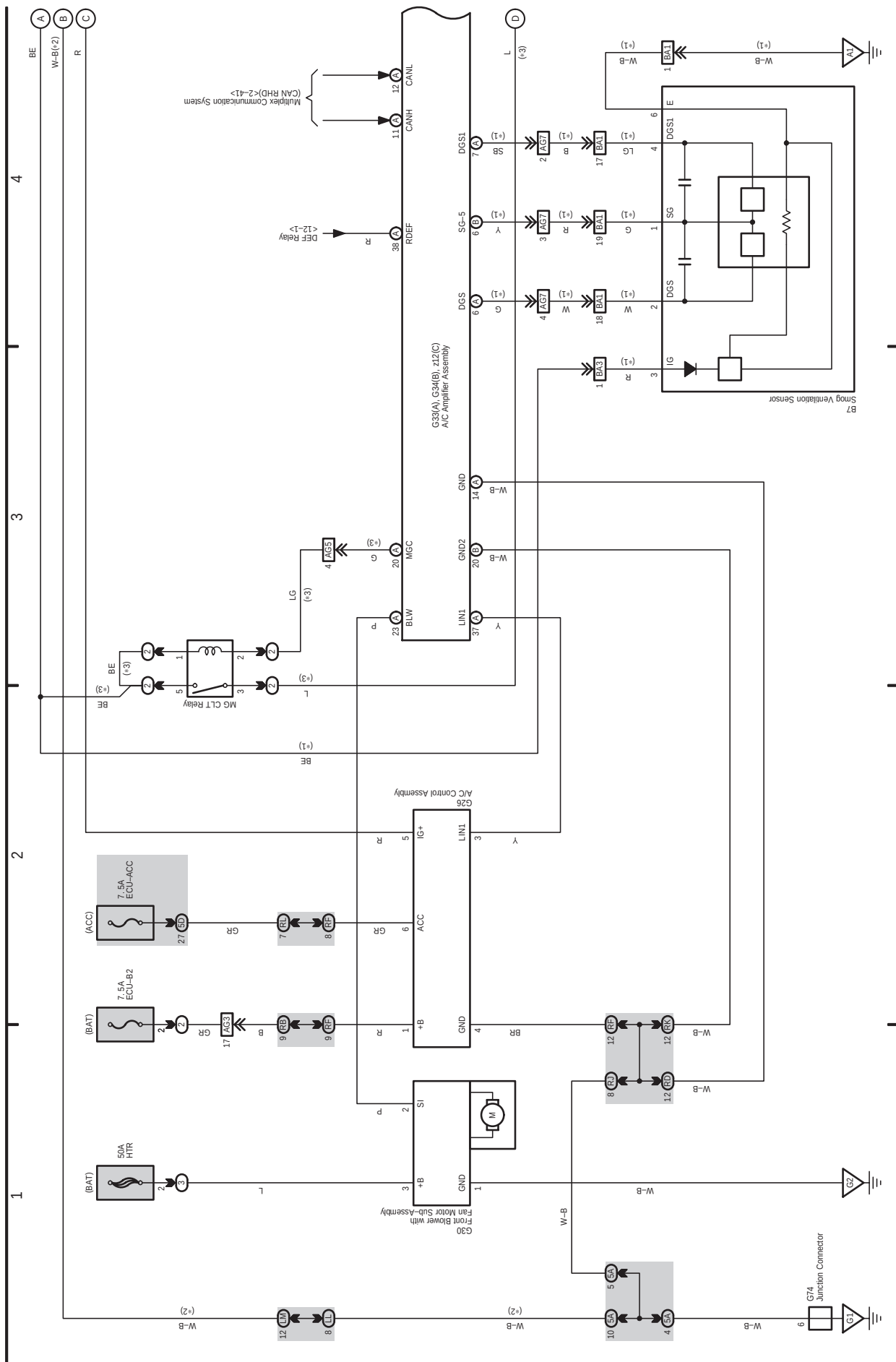
M OVERALL ELECTRICAL WIRING DIAGRAM

26 ALPHARD / VELLFIRE

(Cont. next page)

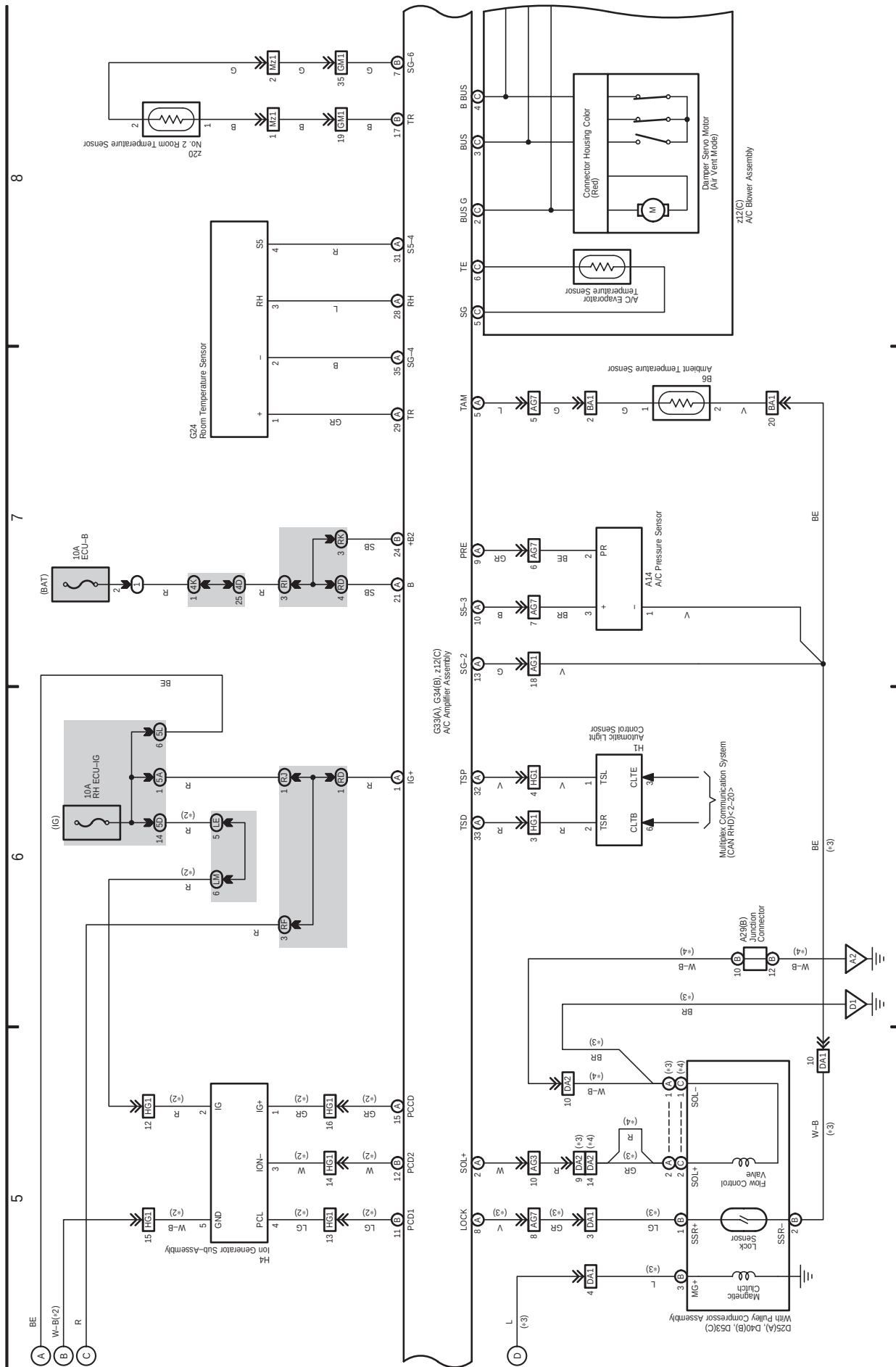
* 1 : w/ Automatic Recirculation Control System
* 2 : w/ Ion Generator Sub-Assembly
* 3 : ZGR-FE

Air Conditioner (RHD)



* 2 : w/ Ion Generator Sub-Assembly
 * 3 : 2GR-FE
 * 4 : 2AZ-FE

Air Conditioner (RHD)

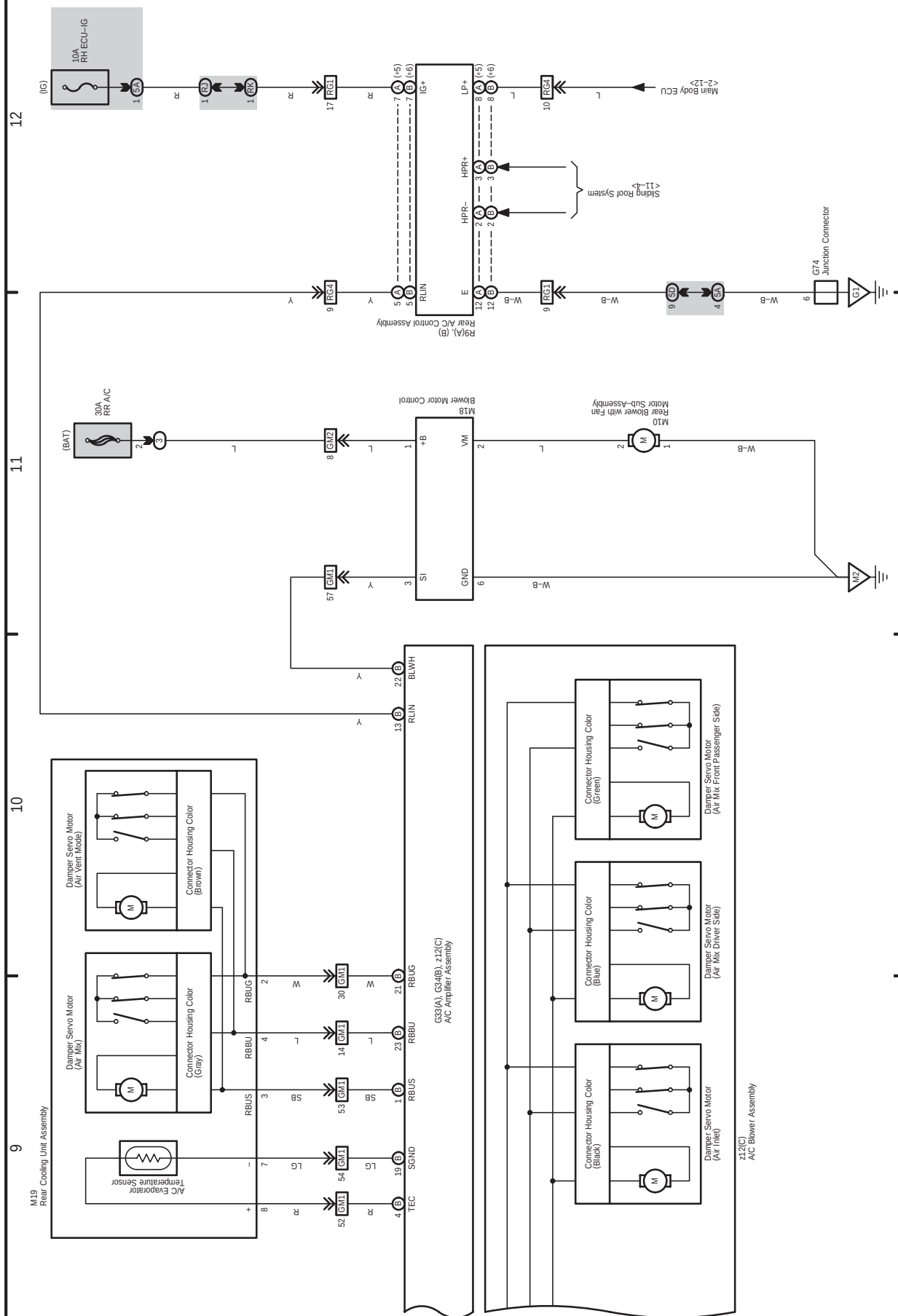


M OVERALL ELECTRICAL WIRING DIAGRAM

26 ALPHARD / VELLFIRE (Cont' d)

Air Conditioner (RHD)

* 5 : Before Jun. 2009 Production
* 6 : From Jun. 2009 Production



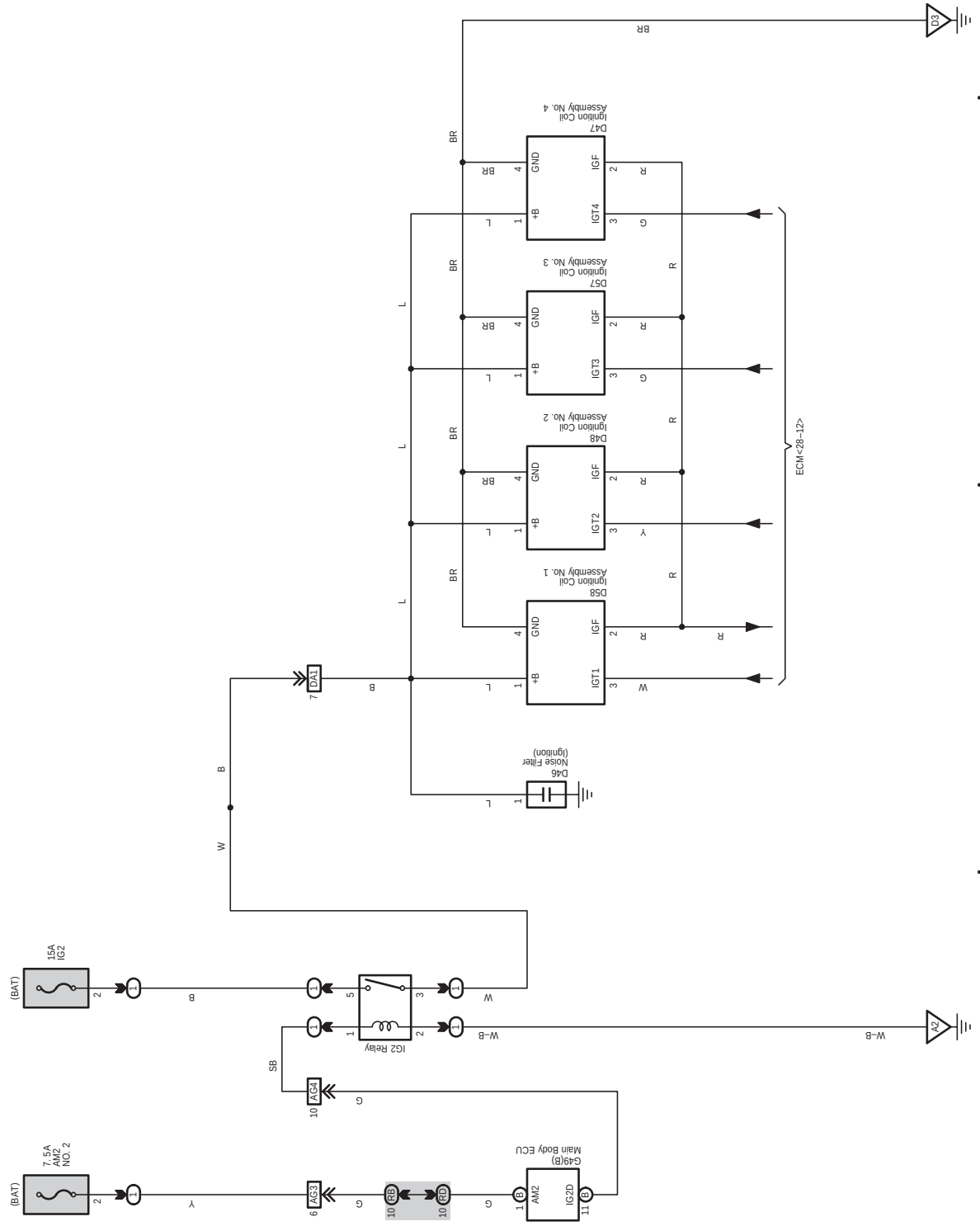
Ignition (2AZ-FE)

4

3

2

1

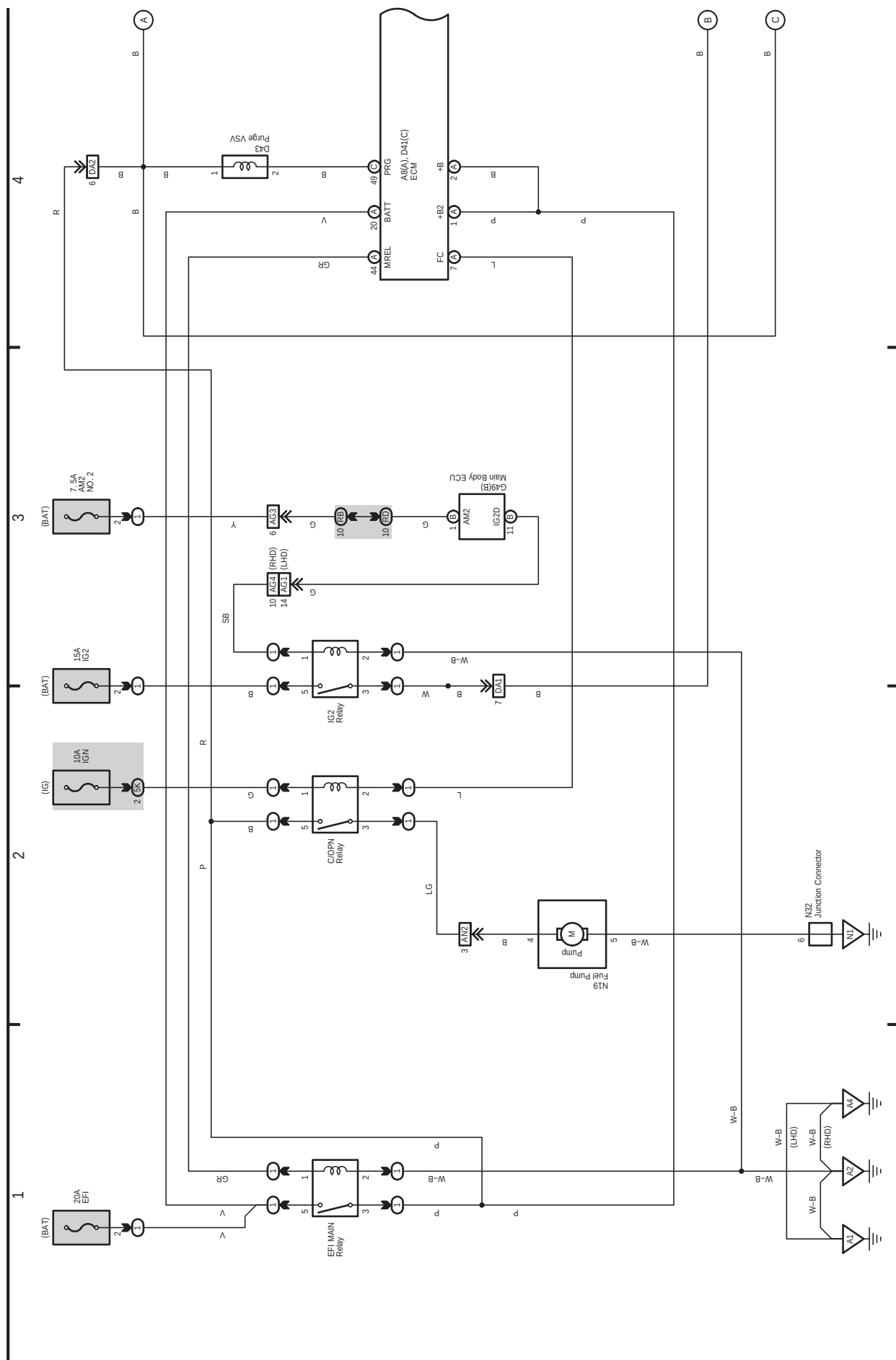


M OVERALL ELECTRICAL WIRING DIAGRAM

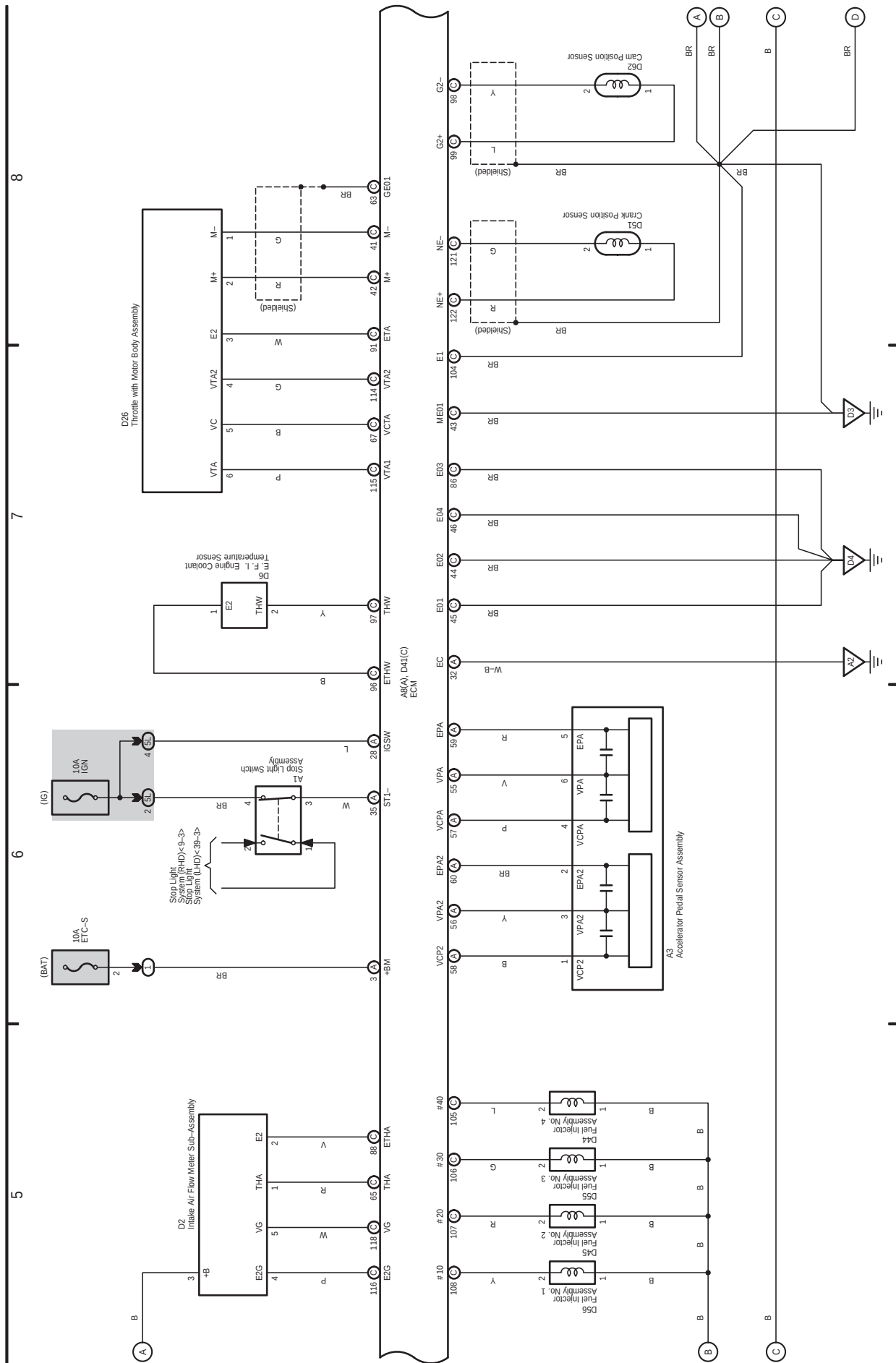
28 ALPHARD / VELLFIRE

(Cont. next page)

Engine Control (2AZ-FE)



Engine Control (2AZ-FE)

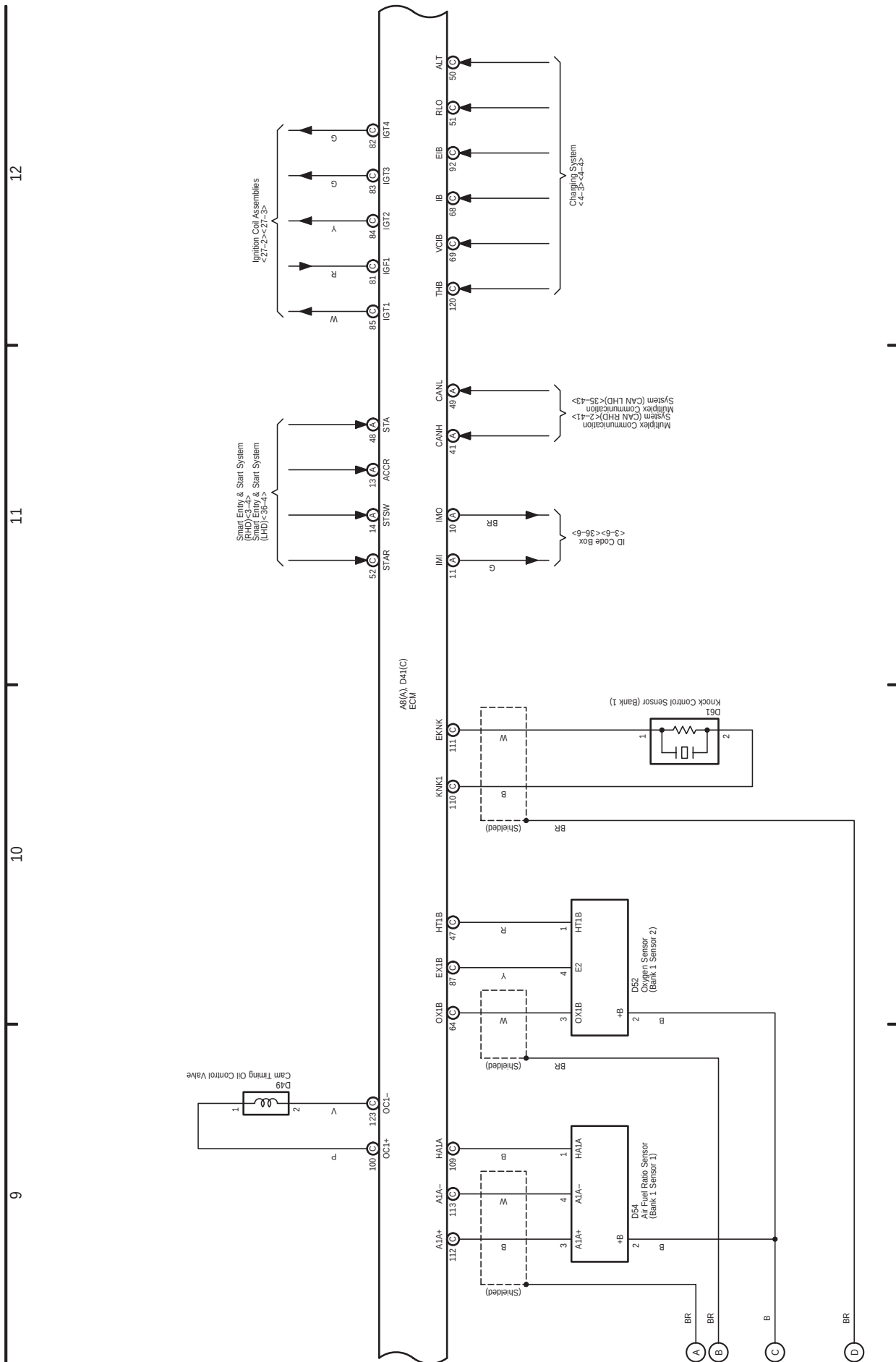


M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

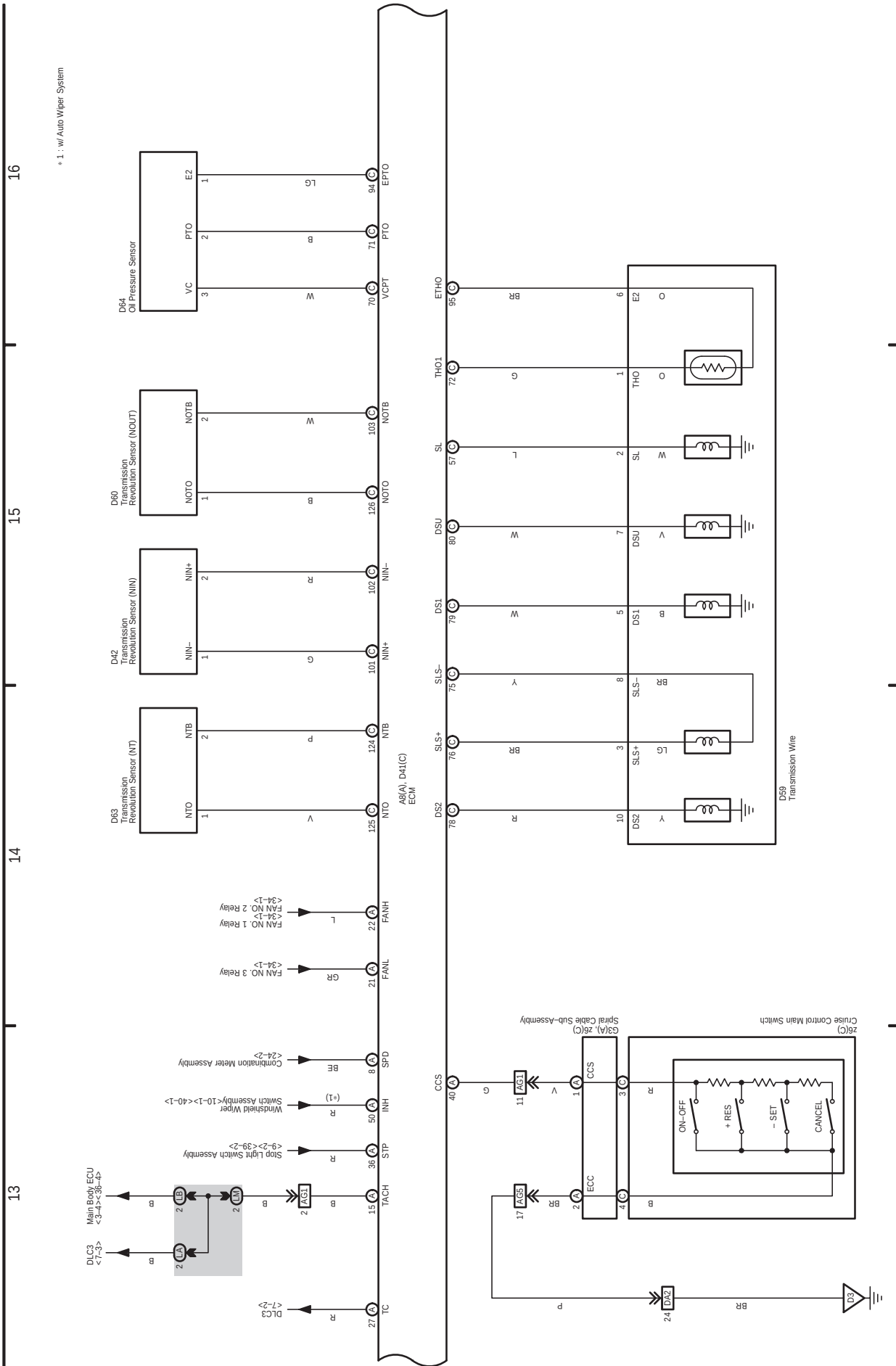
28 ALPHARD / VELLFIRE (Cont' d)

Engine Control (2AZ-FE)

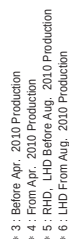


Cruise Control (2AZ-FE)

CVT and Shift Indicator (2AZ-FE)



28 ALPHARD / VELLFIRE (Cont' d)



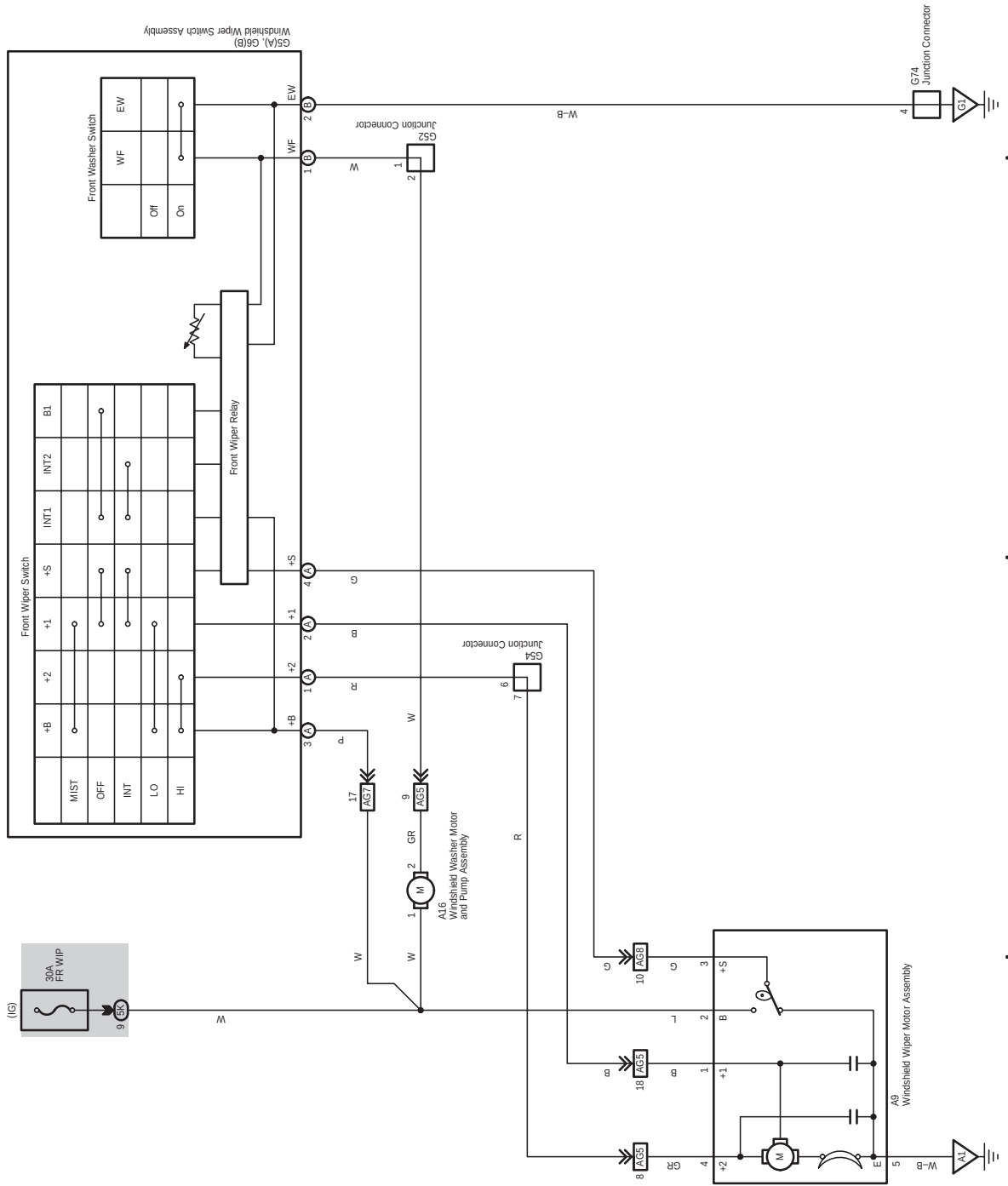
Front Wiper and Washer (w/o Auto Wiper System)

4

3

2

1

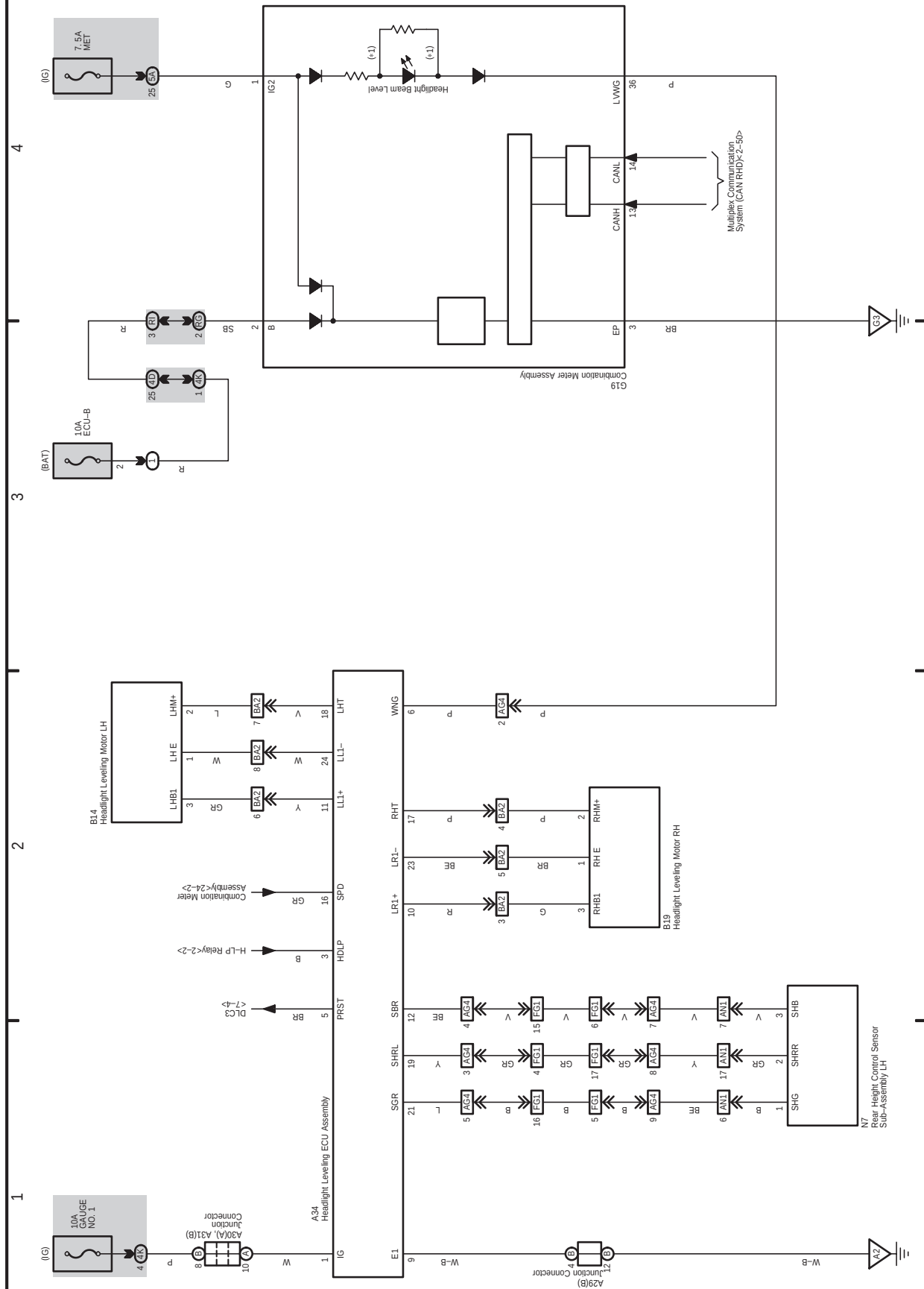


M OVERALL ELECTRICAL WIRING DIAGRAM

30 ALPHARD / VELLFIRE

Headlight Beam Level Control (w/o Adaptive Front-Lighting System)

* 1 : Before Apr. 2010 Production



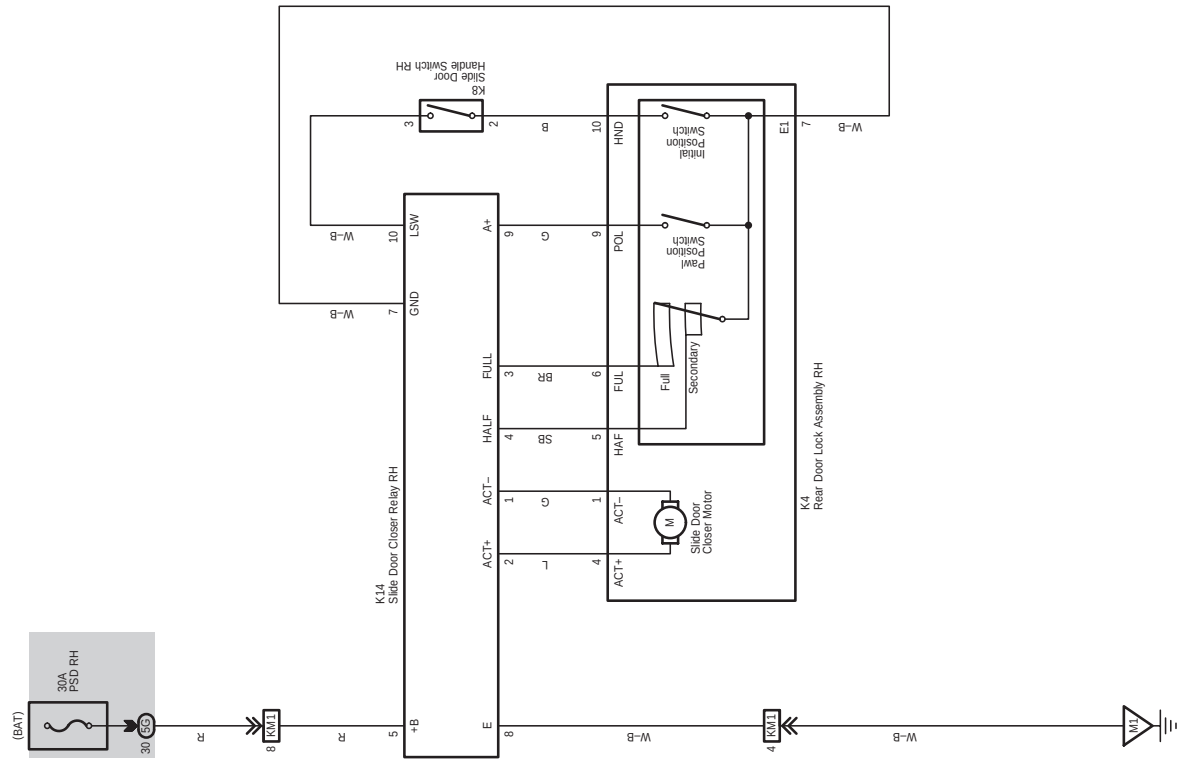
Slide Door Closer (w/o Power Slide Door)

4

3

2

1

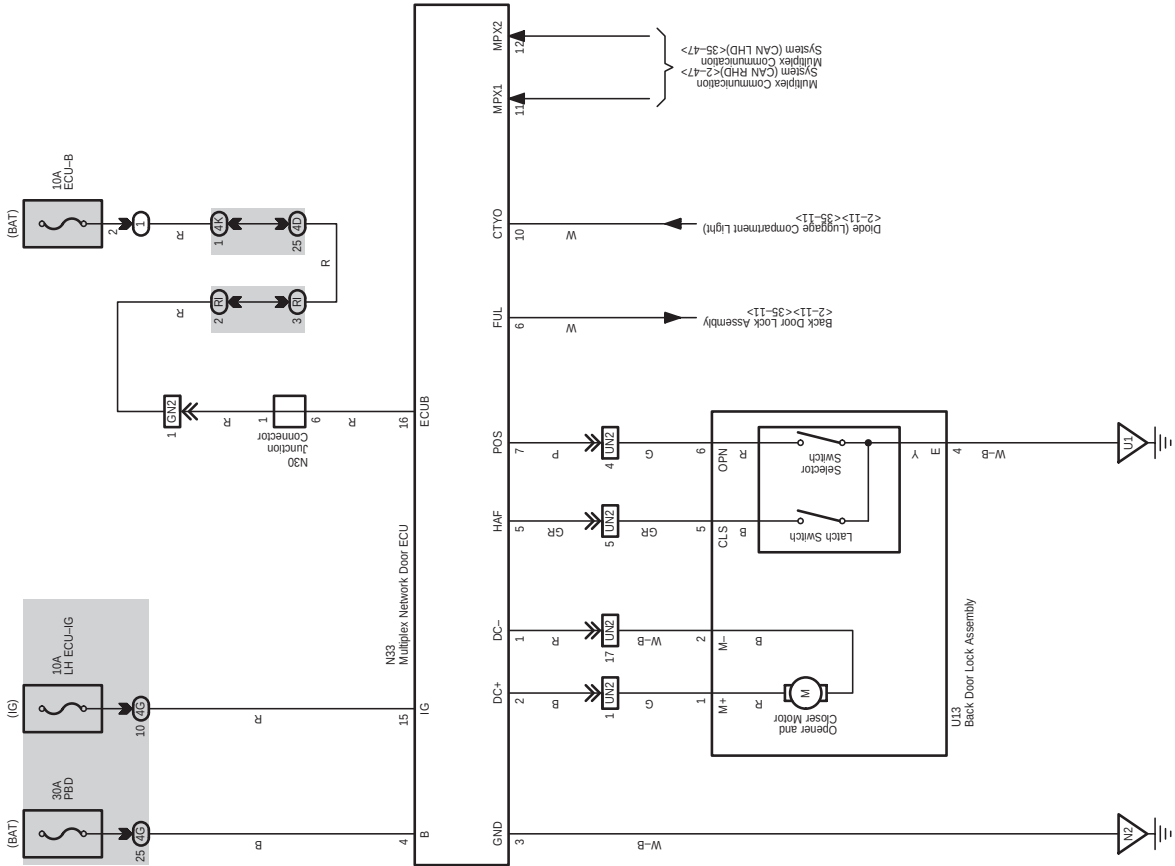


M OVERALL ELECTRICAL WIRING DIAGRAM

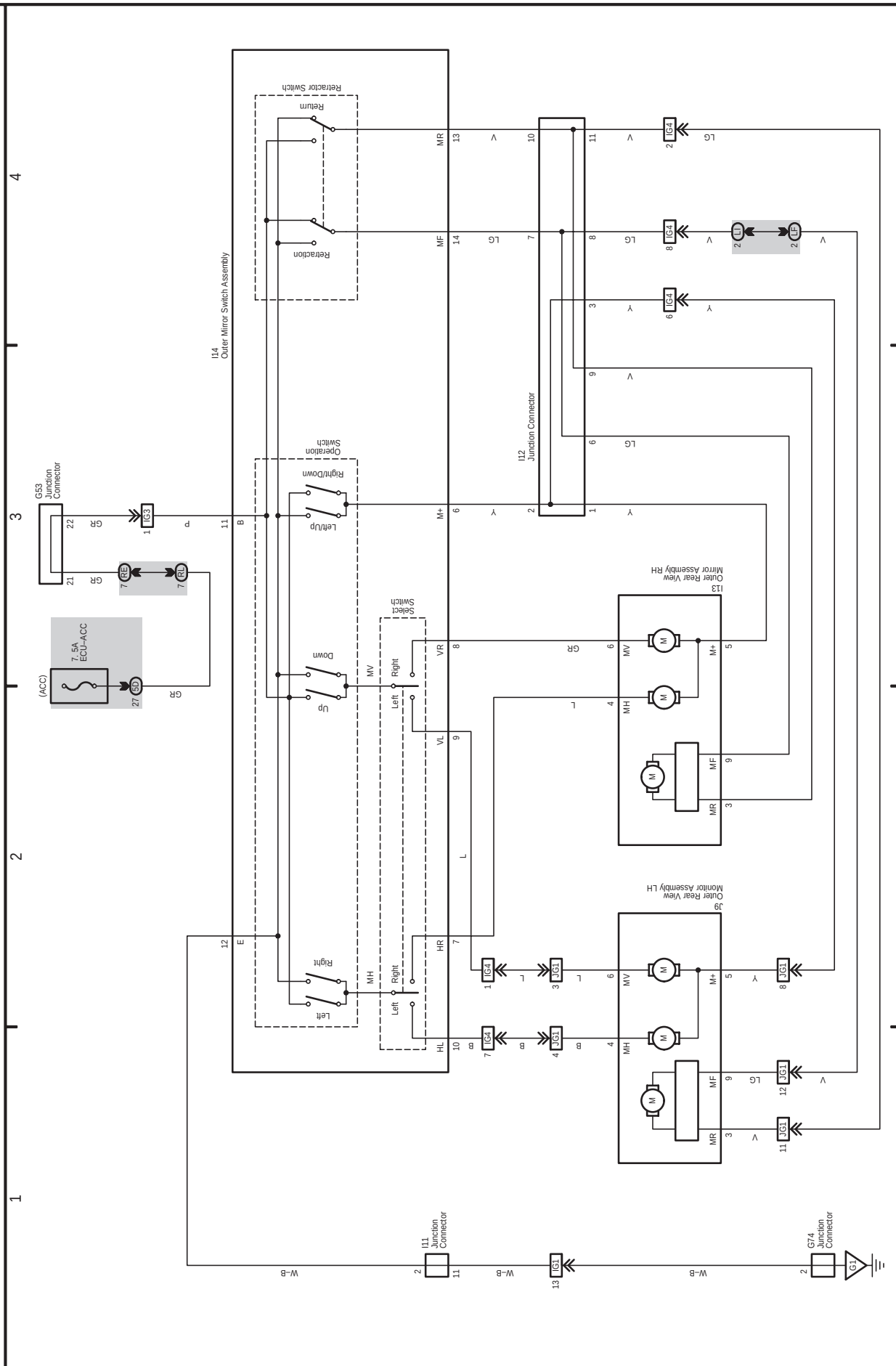
32 ALPHARD / VELLFIRE

Back Door Closer (w/o Power Back Door)

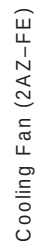
1 2 3 4



Remote Control Mirror (w/o Automatic Retractable)



34 ALRHARD / VELLFIRE



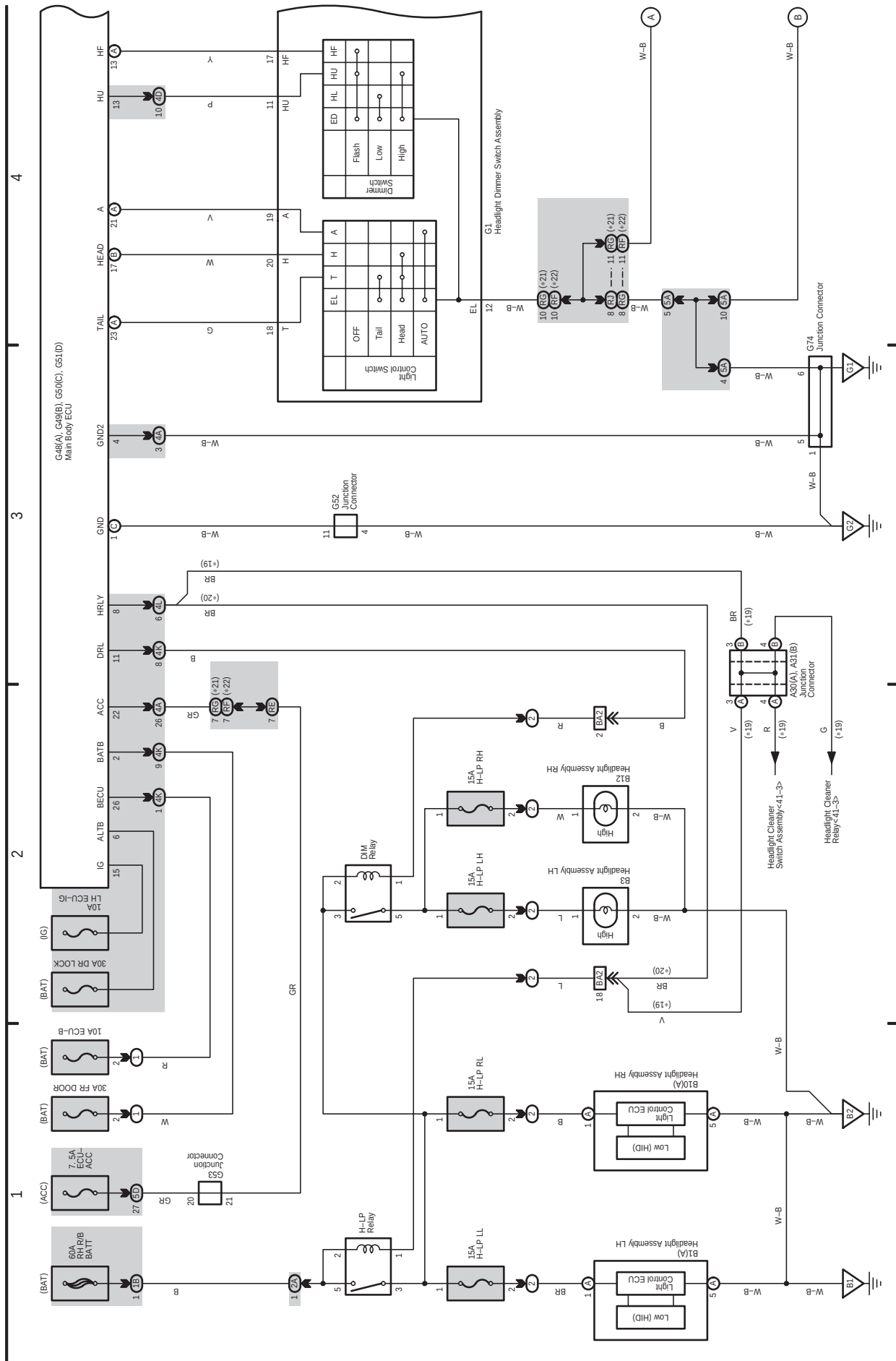
M OVERALL ELECTRICAL WIRING DIAGRAM

35 ALPHARD / VELLFIRE

(Cont. next page)

*19 : w/ Headlight Cleaner
*20 : w/o Headlight Cleaner
*21 : Before Aug. 2010 Production
*22 : From Aug. 2010 Production

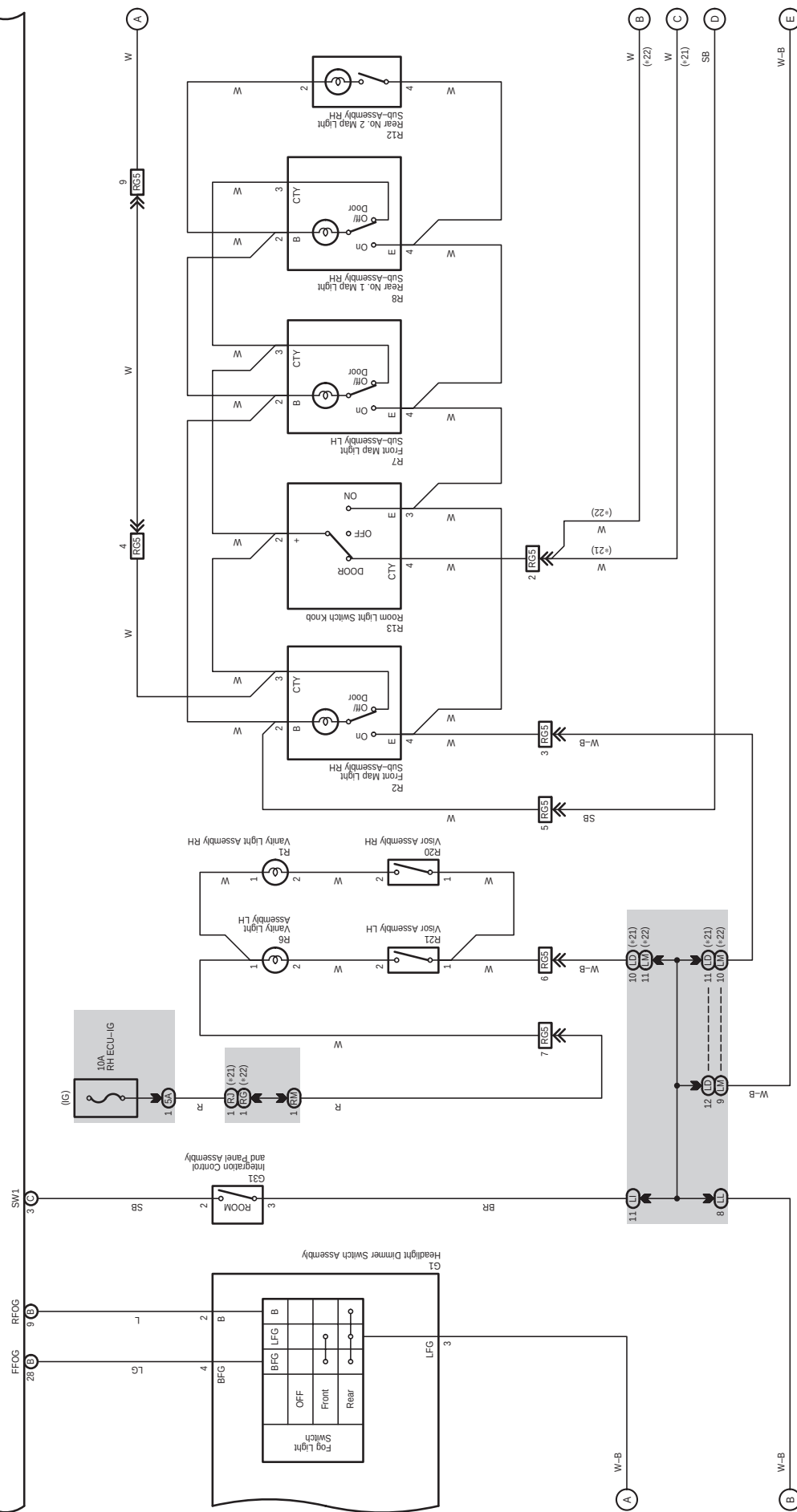
Multiplex Communication System (CAN LHD)



Multiplex Communication System (CAN LHD)

*21: Before Aug. 2010 Production
*22: From Aug. 2010 Production

G48(A), G49(B), G50(C), G51(D)
Main Body ECU



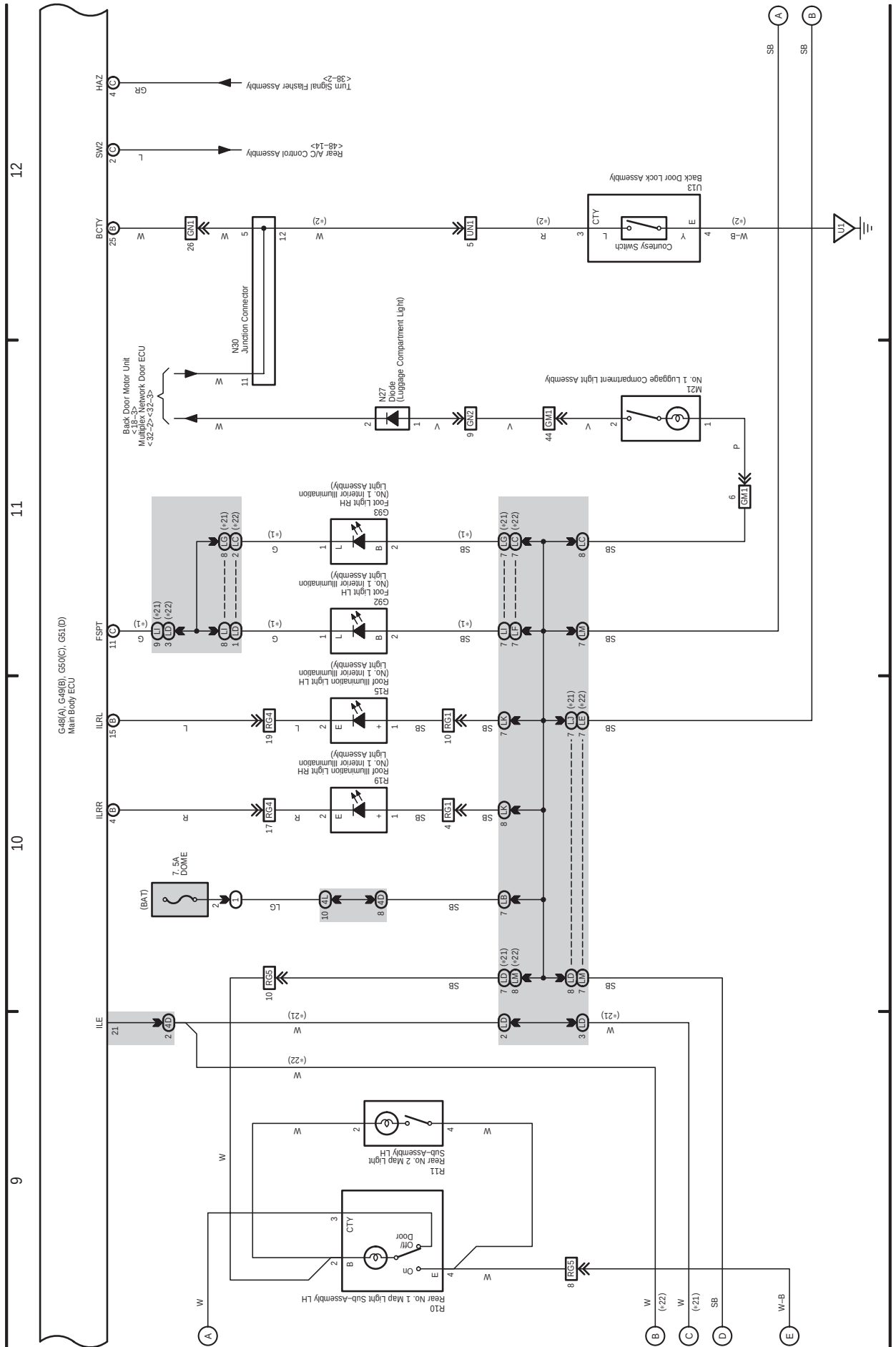
M OVERALL ELECTRICAL WIRING DIAGRAM

35 ALPHARD / VELLFIRE (Cont' d)

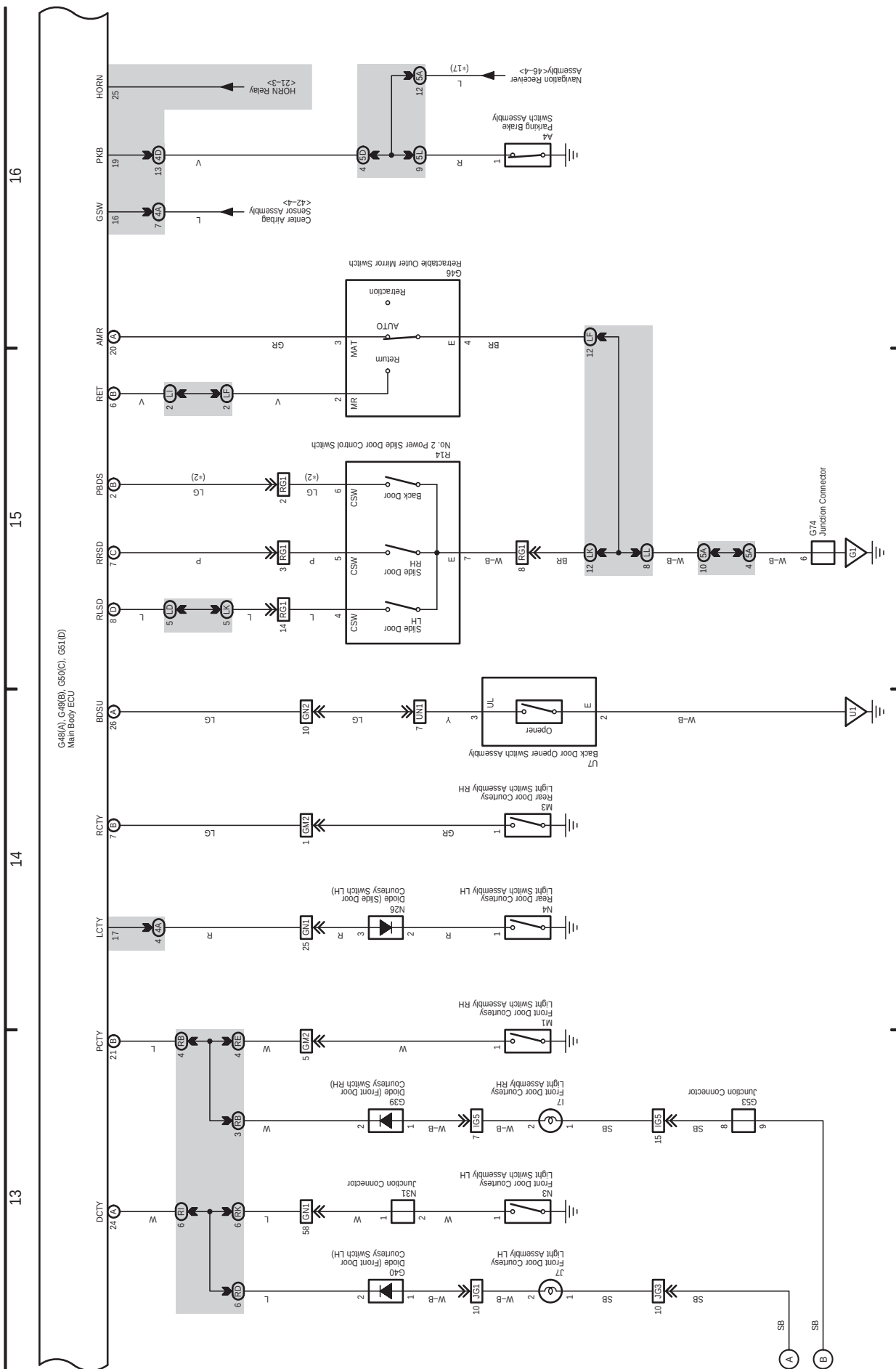
(Cont. next page)

- * 1 : w/ Root Light
- * 2 : w/ Power Back Door
- * 21 : Before Aug. 2010 Production
- * 22 : From Aug. 2010 Production

Multiplex Communication System (CAN LHD)



Multiplex Communication System (CAN LHD)

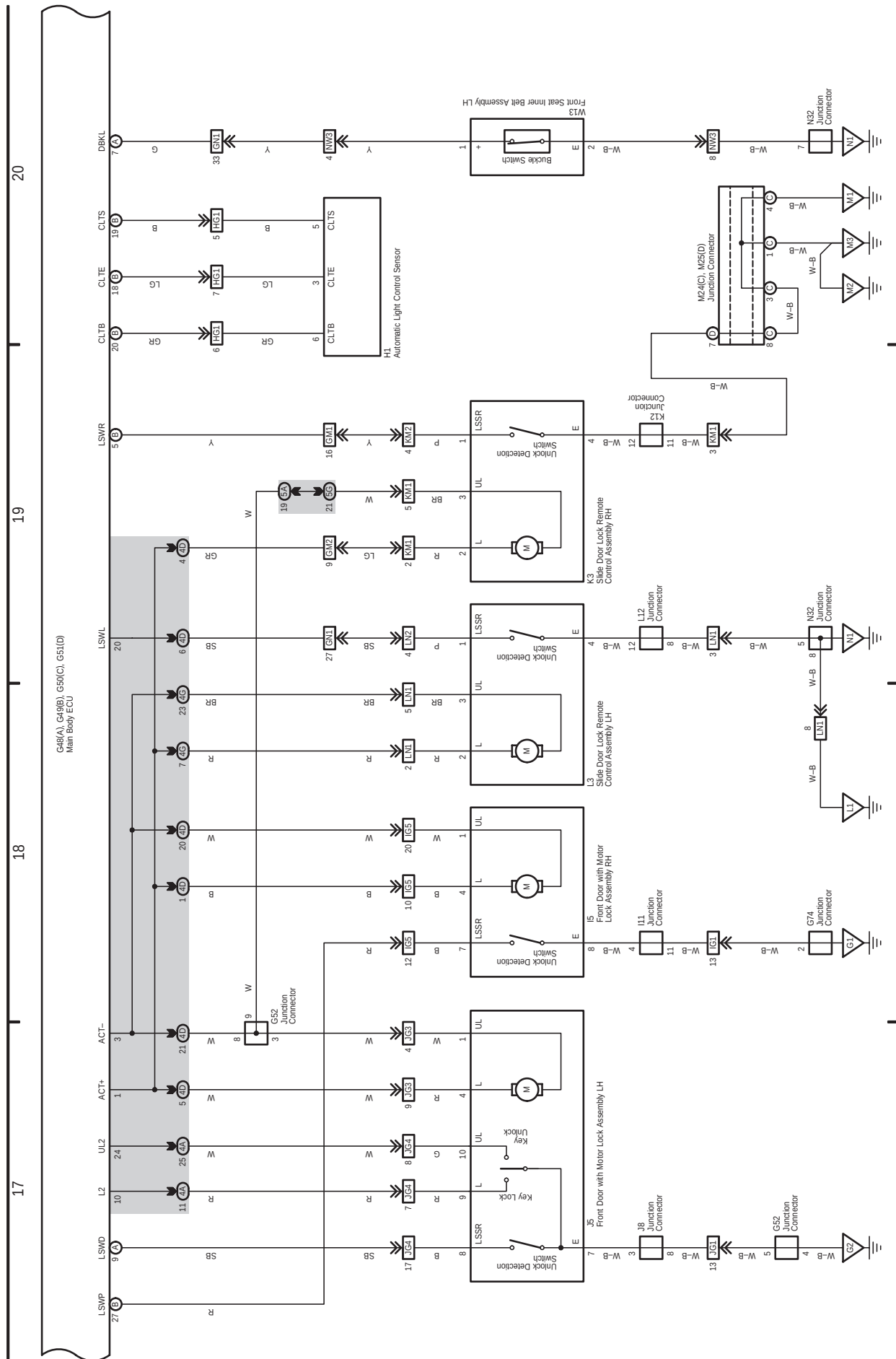


M OVERALL ELECTRICAL WIRING DIAGRAM

35 ALPHARD / VELLFIRE (Cont' d)

(Cont. next page)

Multiplex Communication System (CAN LHD)



Multiplex Communication System (CAN LHD)

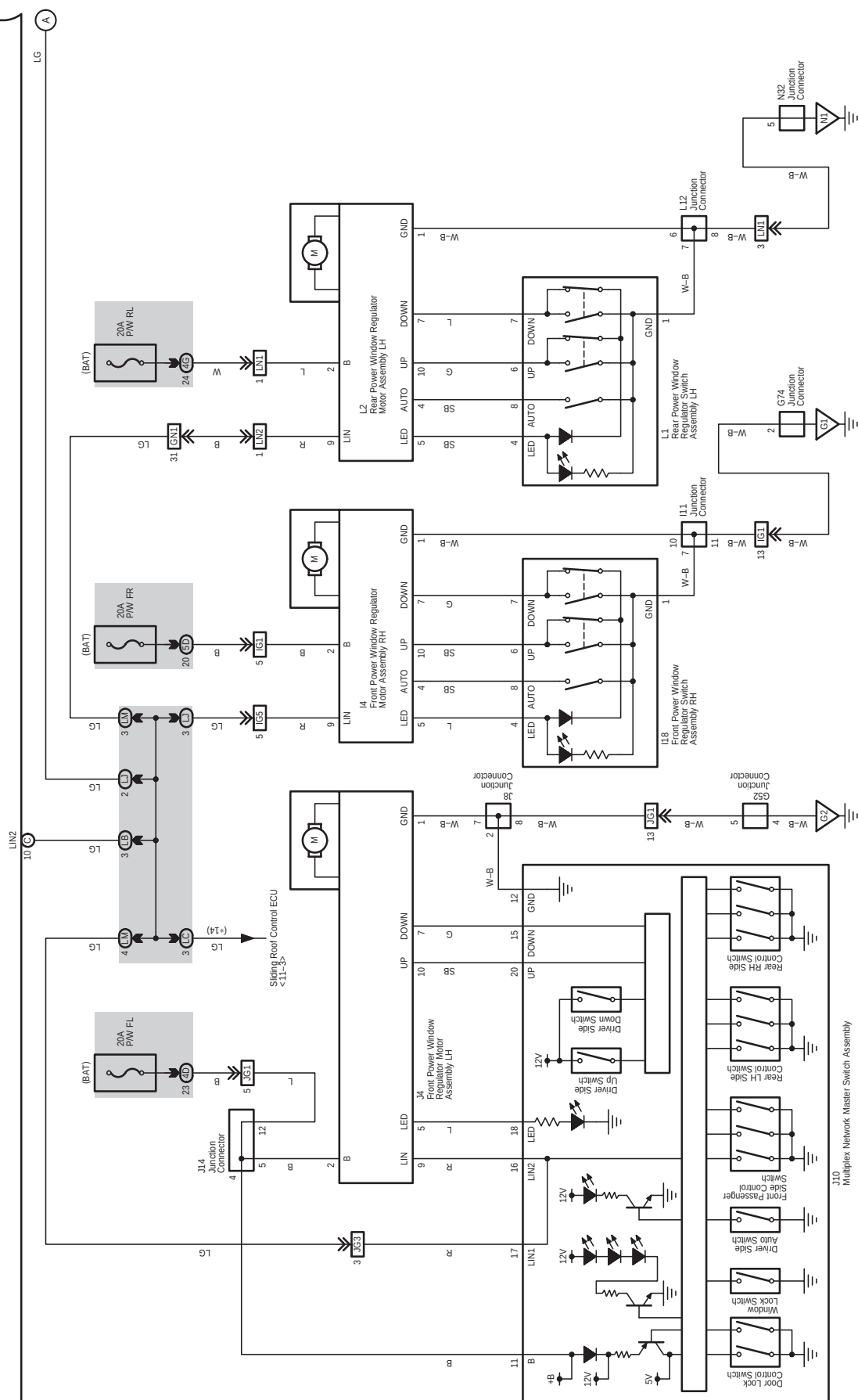
*14: w/ Sliding Roof

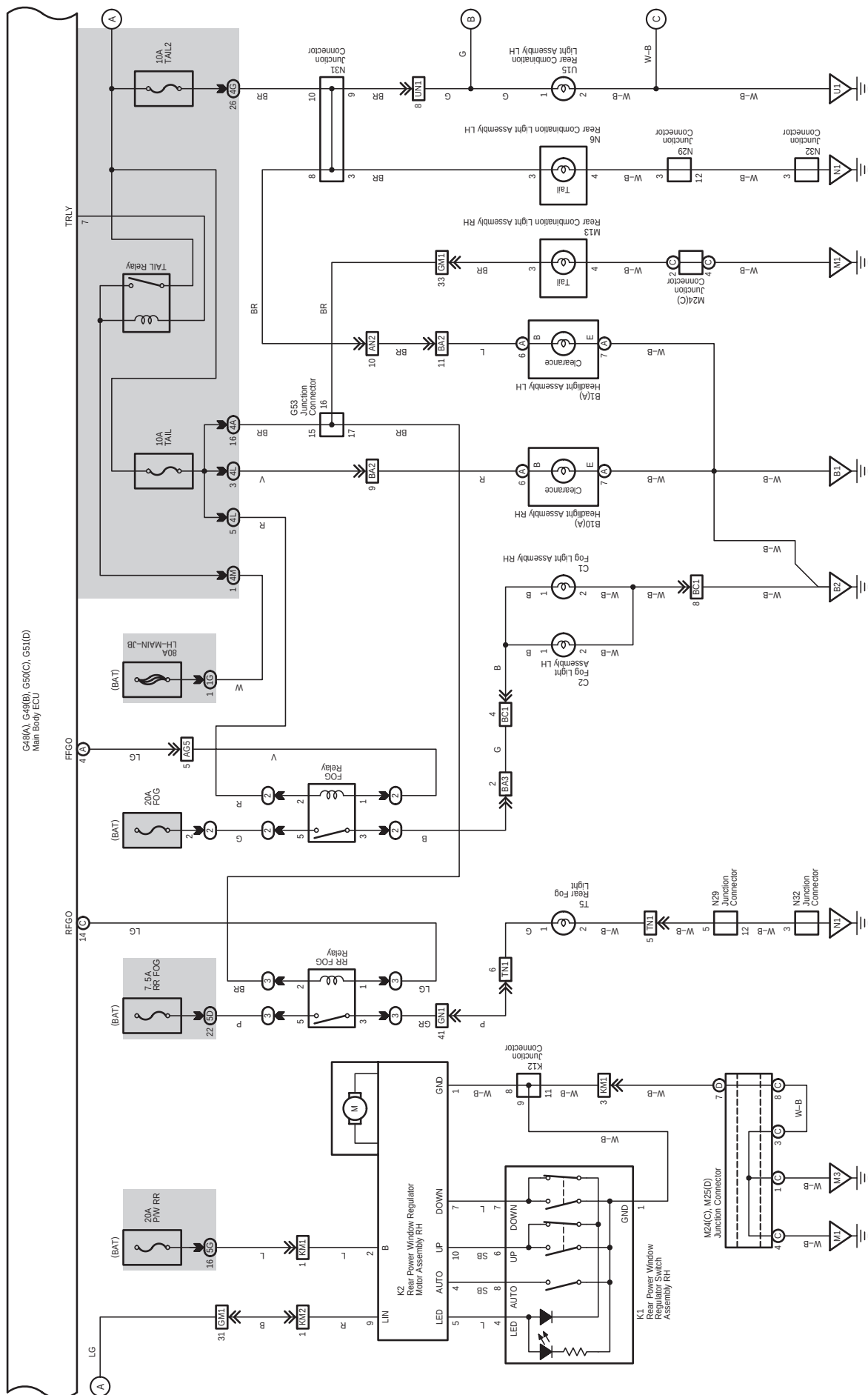
21

22

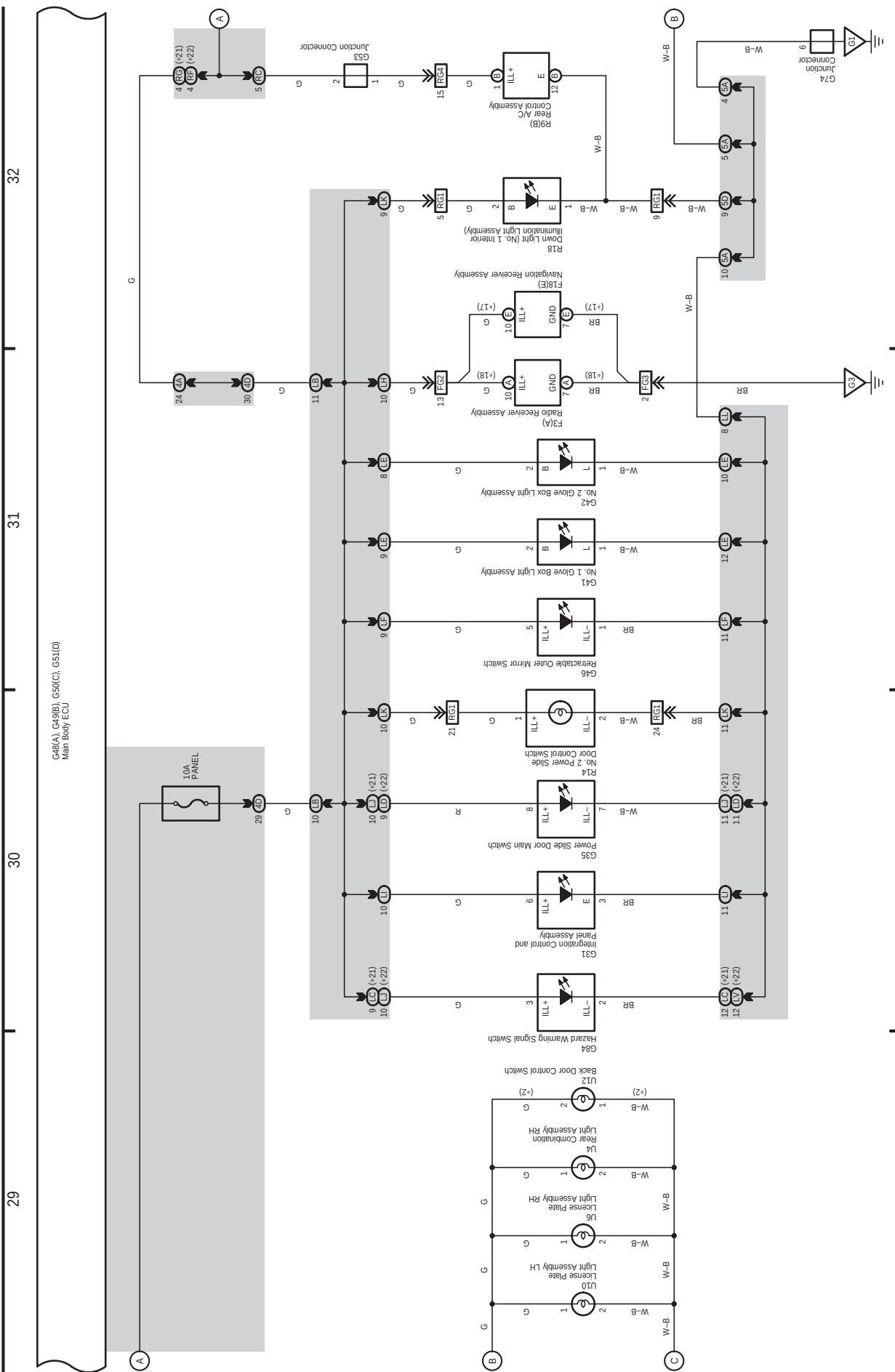
23

24

G48(A), G49(E), G50(C), G51(D)
Main Body ECU



Multiplex Communication System (CAN LHD)



M OVERALL ELECTRICAL WIRING DIAGRAM

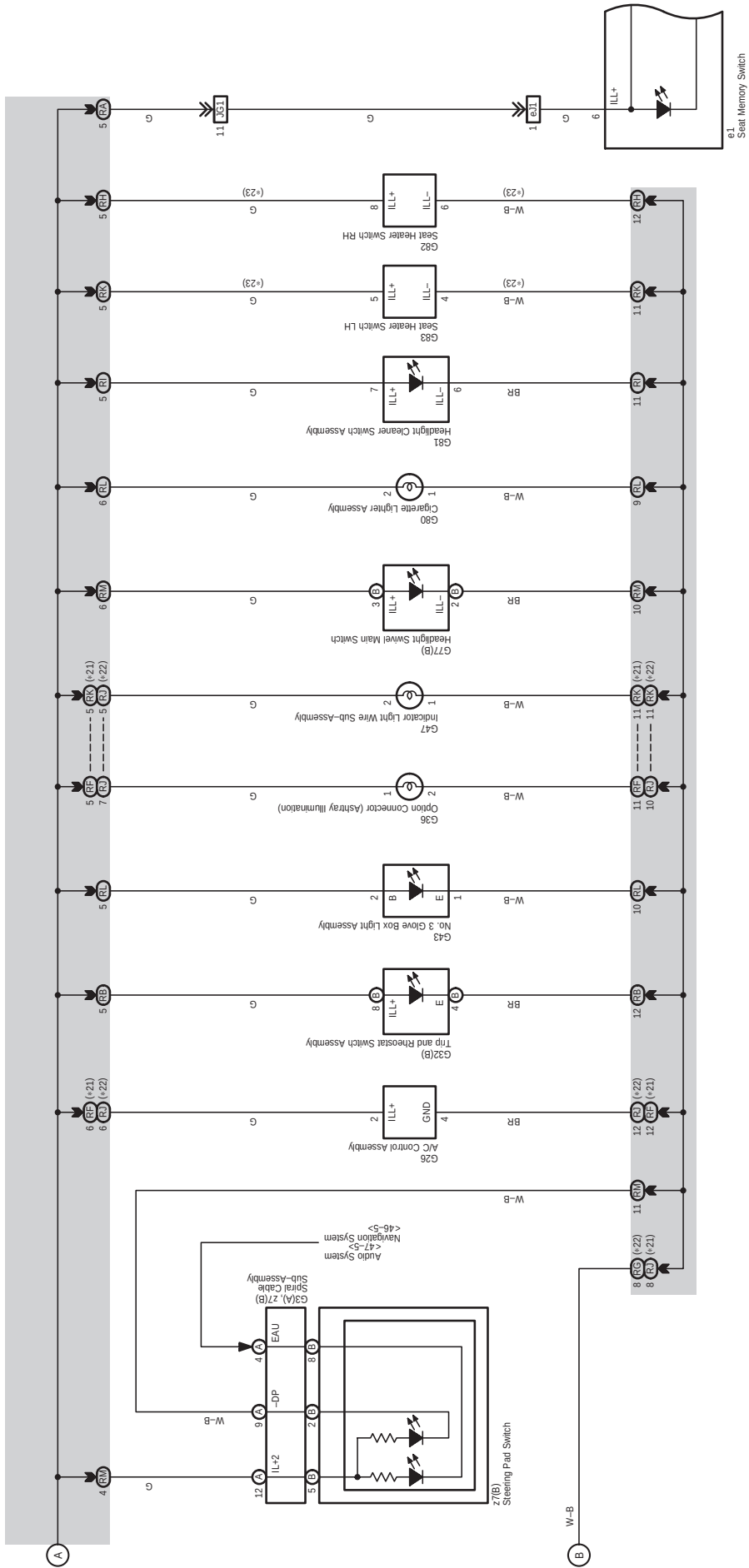
(Cont. next page)

35 ALPHARD / VELLFIRE (Cont' d)

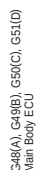
*21 : Before Aug. 2010 Production
*22 : From Aug. 2010 Production
*23 : w/ Seat Heater

Multiplex Communication System (CAN LHD)

G48(A), G49(B), G50(C), G51(D)
Main Body ECU



A vertical number line with a tick mark at 39 and a label '8' at the bottom.

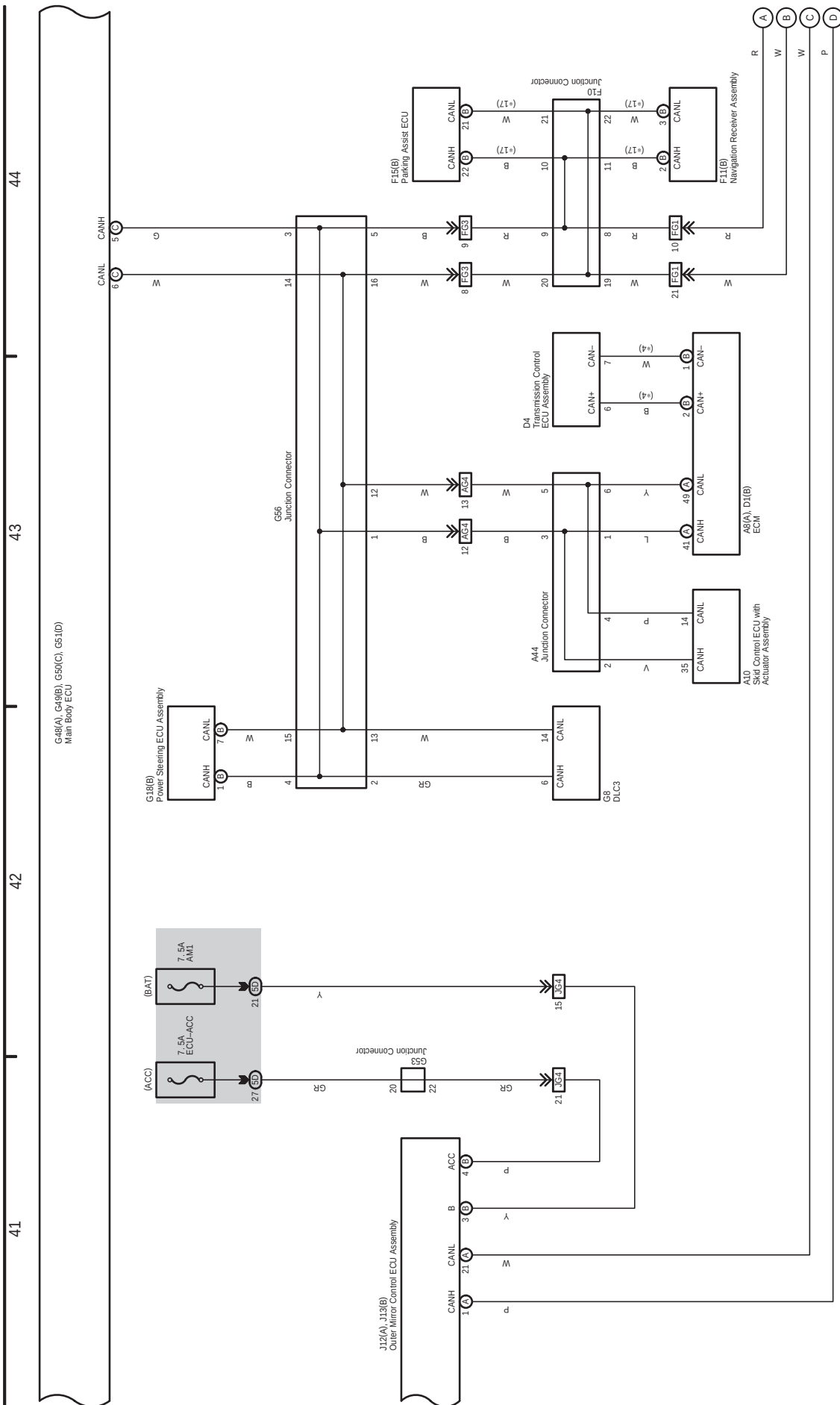


(Cont. next page)

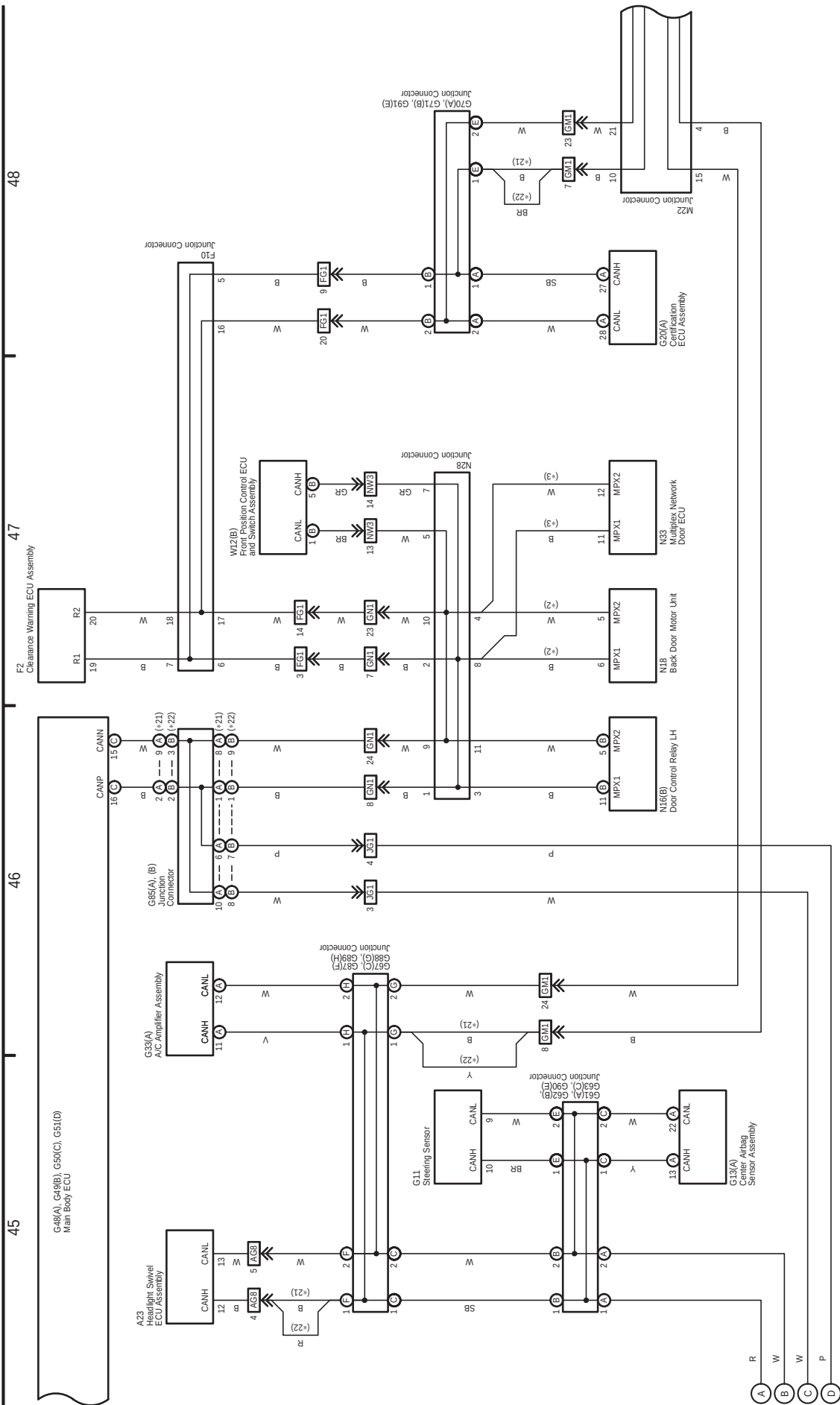
35 ALPHARD / VELLFIRE (Cont' d)

Multiplex Communication System (CAN LHD)

* 4 : 2GR-FE
* 17 : 1W Navigation System



Multiplex Communication System (CAN LHD)

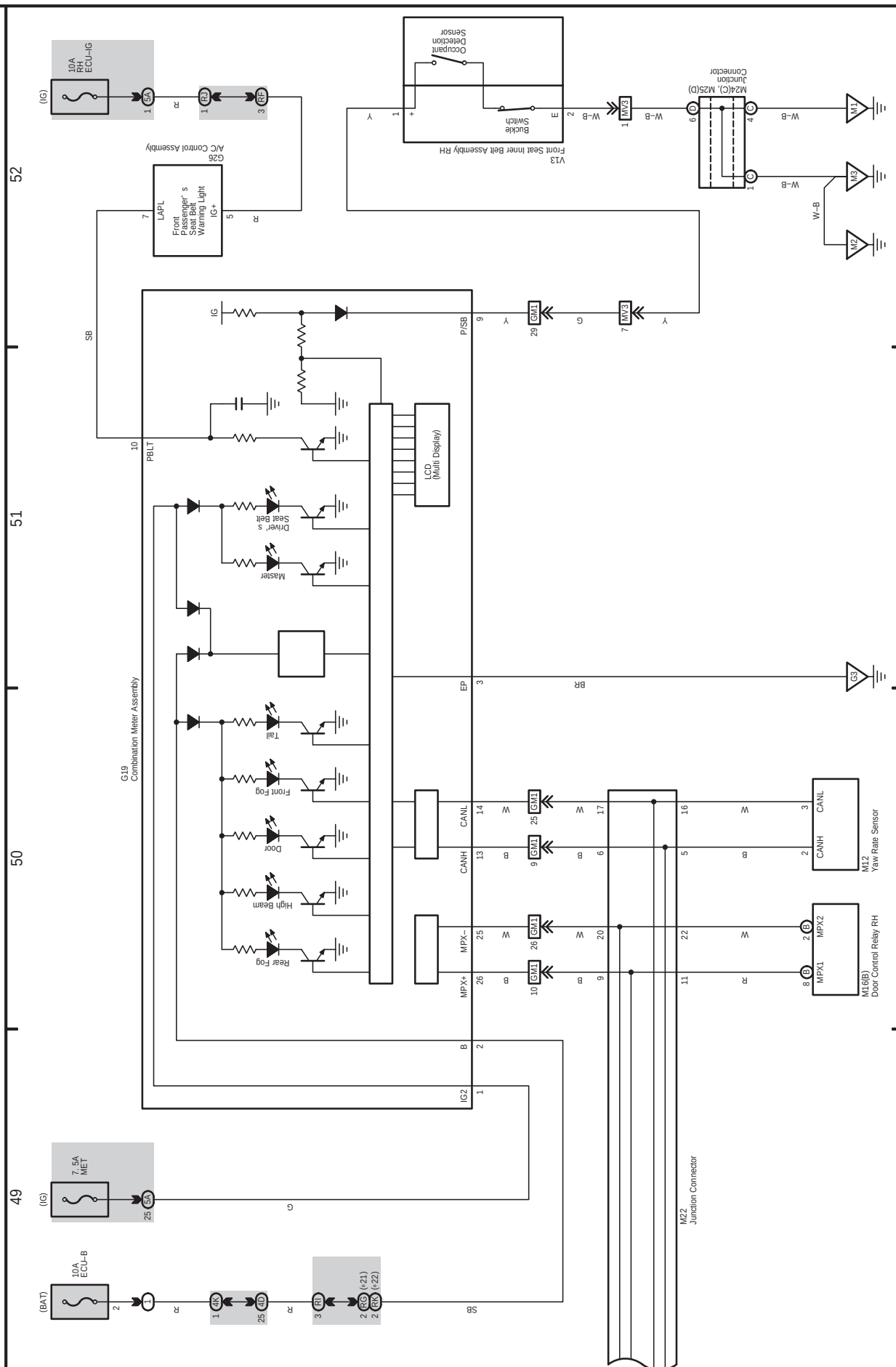


M OVERALL ELECTRICAL WIRING DIAGRAM

35 ALPHARD / VELLFIRE (Cont' d)

Multiplex Communication System (CAN LHD)

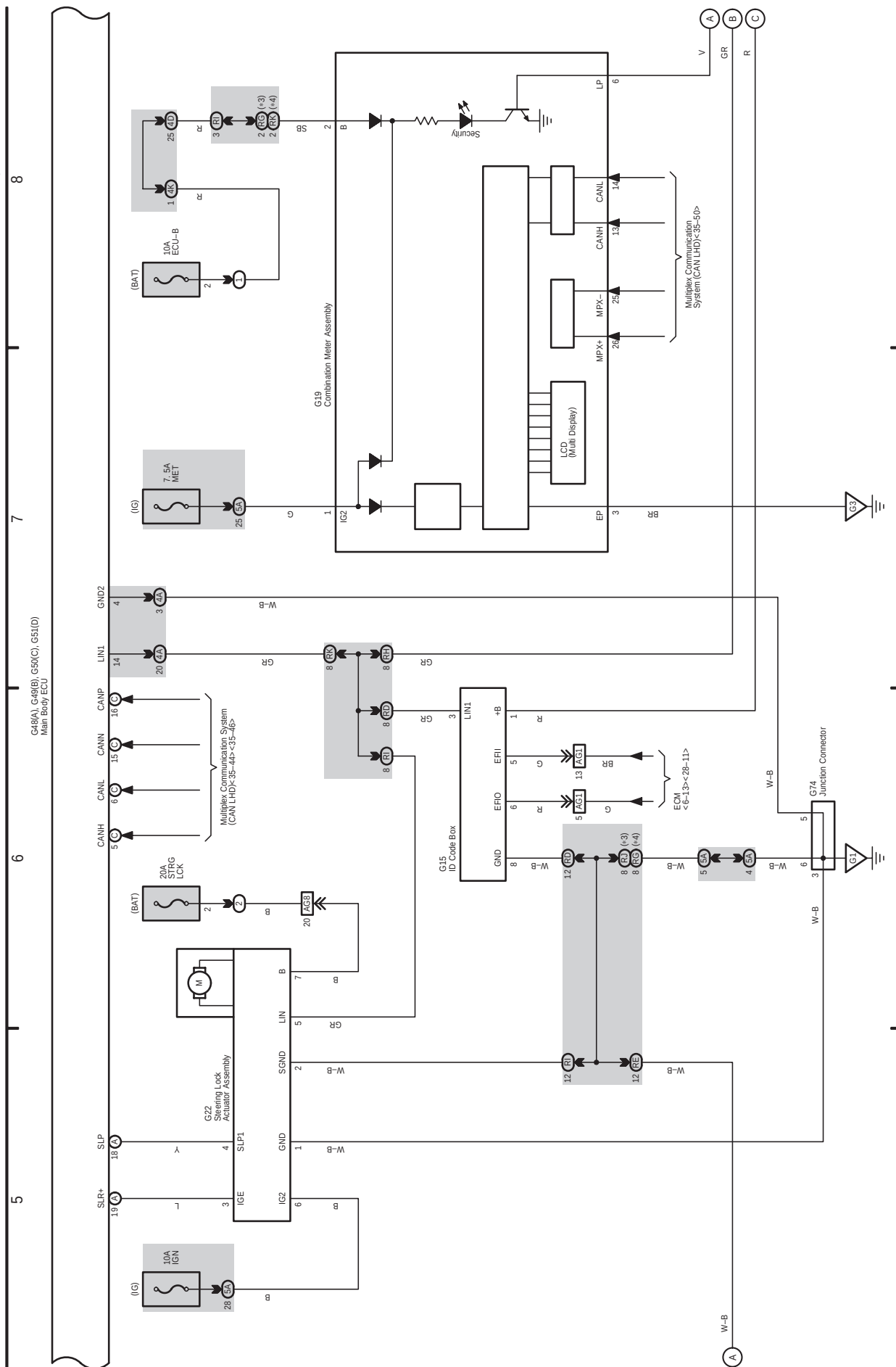
*21 : Before Aug. 2010 Production
*22 : From Aug. 2010 Production





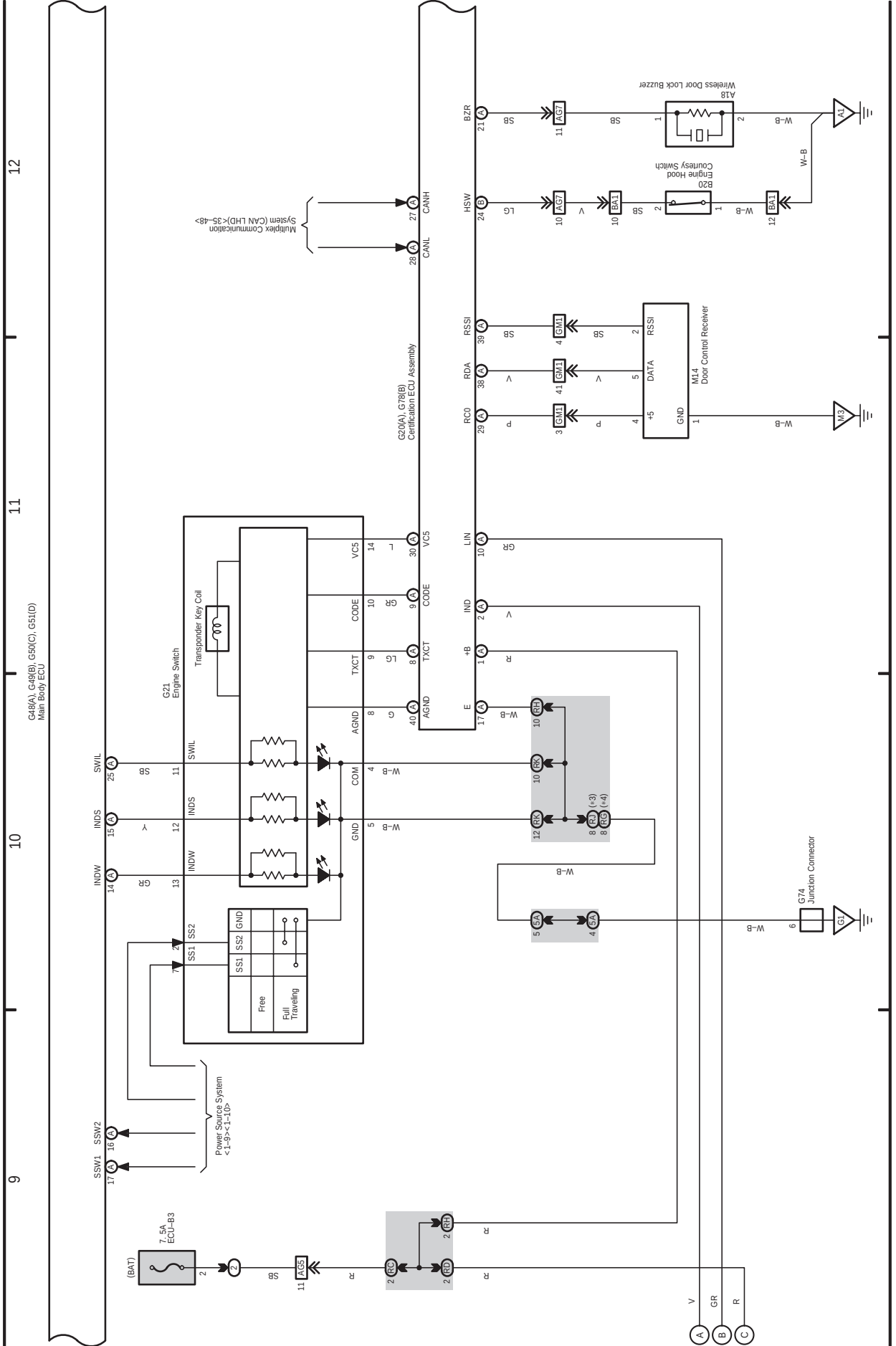
Smart Entry & Start System (LHD) and Theft Deterrent

* 3: Before Aug. 2010 Production
* 4: From Aug. 2010 Production



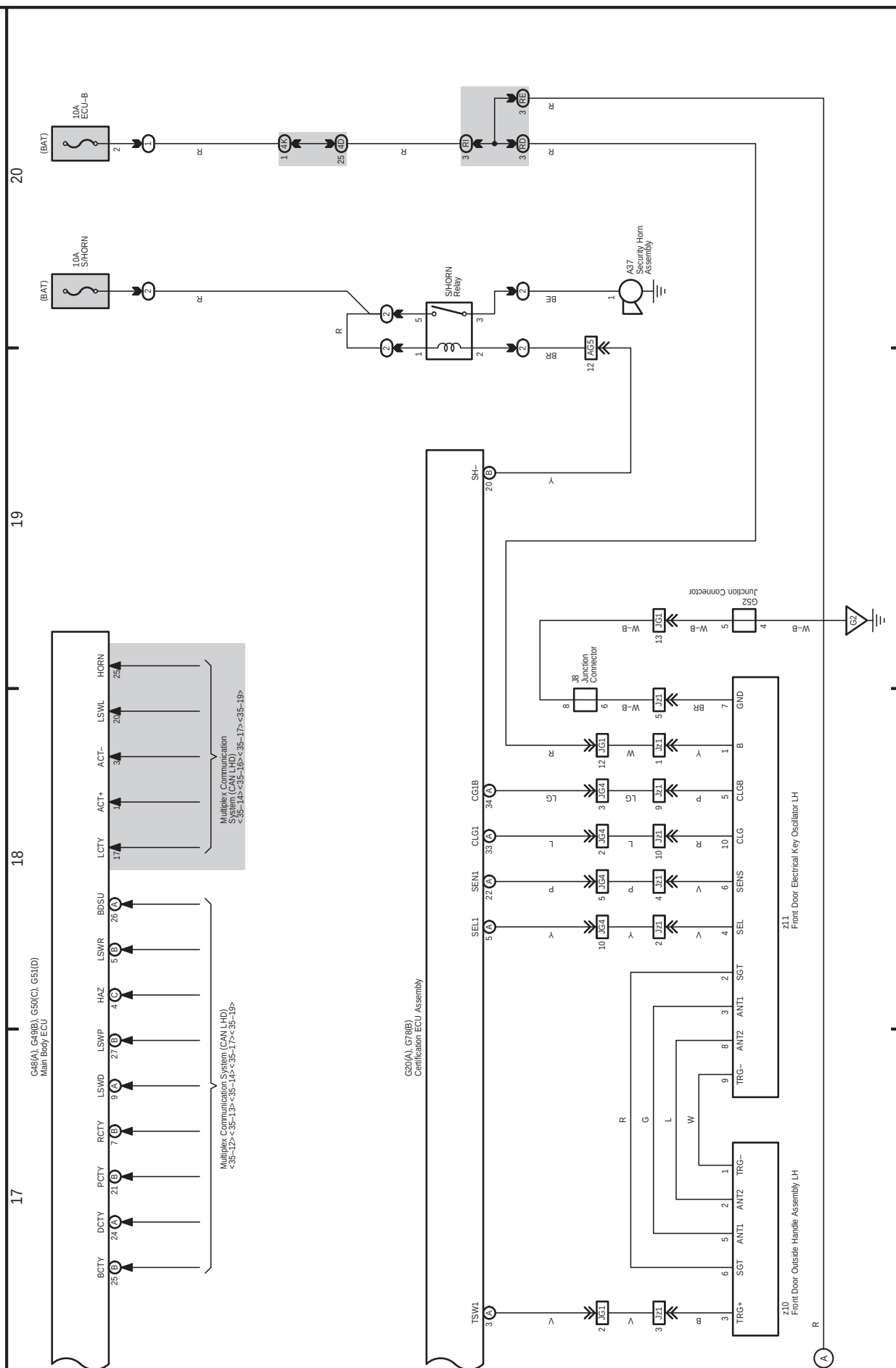
Smart Entry & Start System (LHD) and Theft Deterrent

* 3 : Before Aug. 2010 Production
* 4 : From Aug. 2010 Production





36 ALPHARD / VELLFIRE (Cont' d)

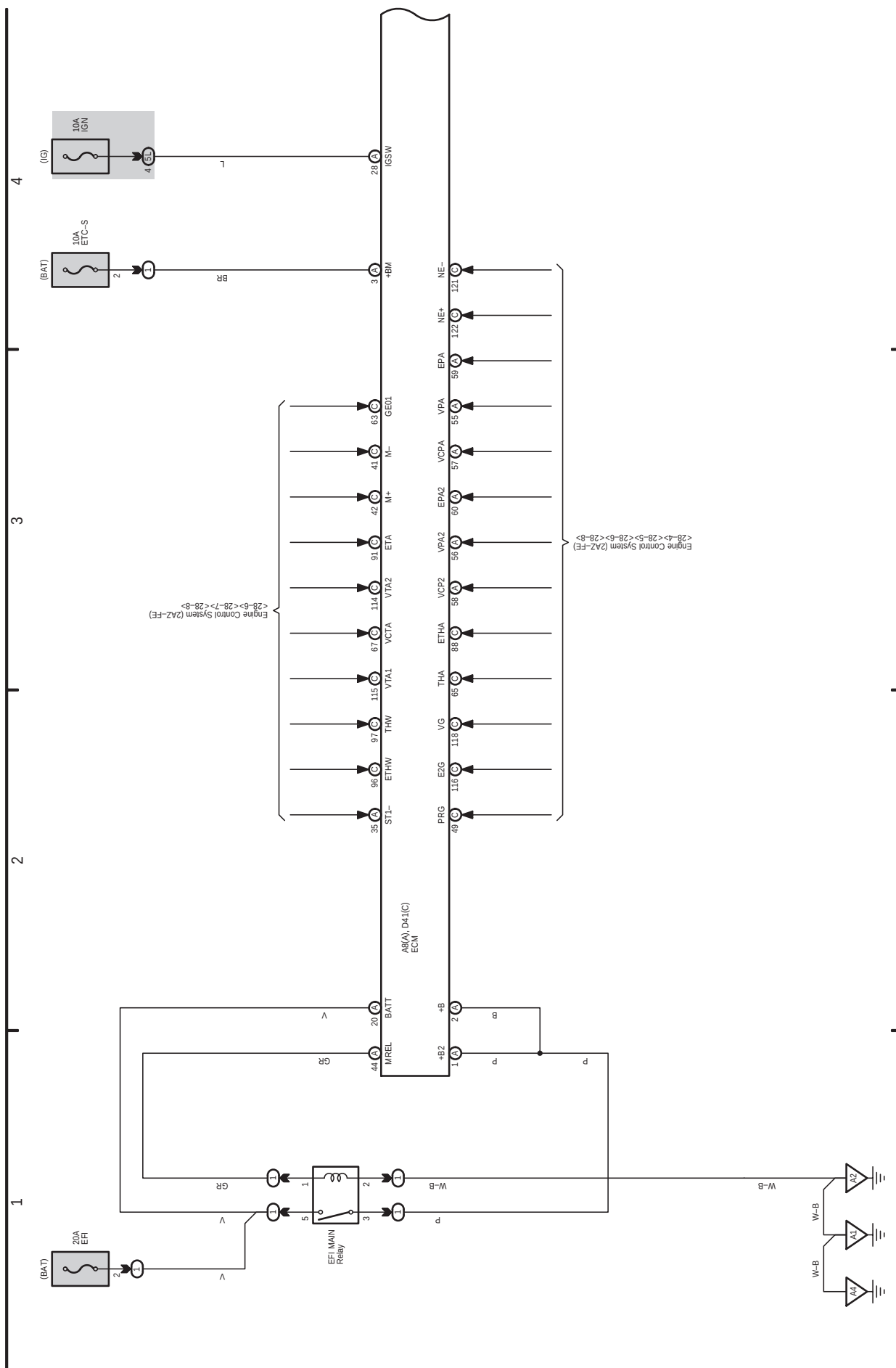


M OVERALL ELECTRICAL WIRING DIAGRAM

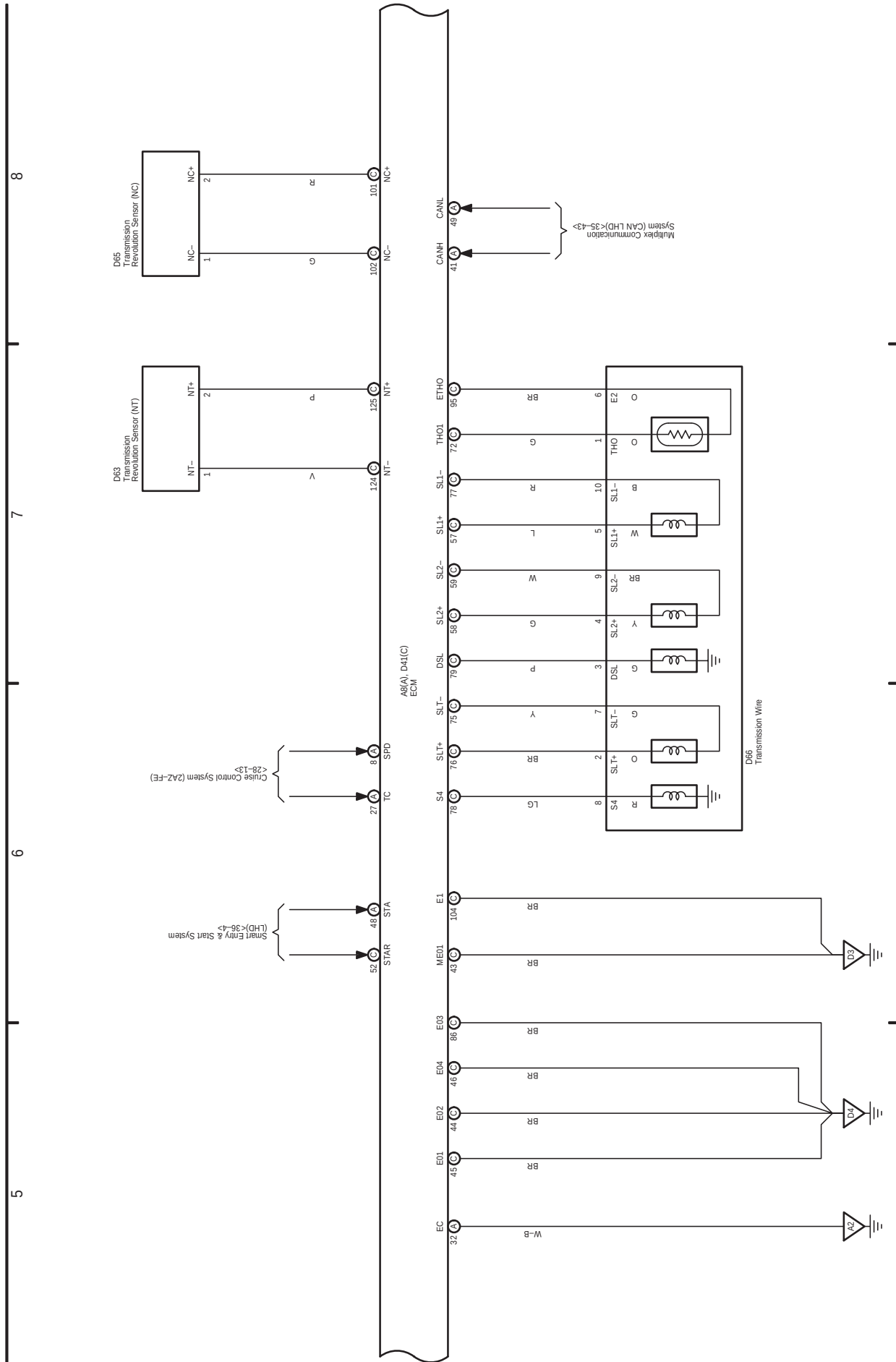
(Cont. next page)

37 ALPHARD / VELLFIRE

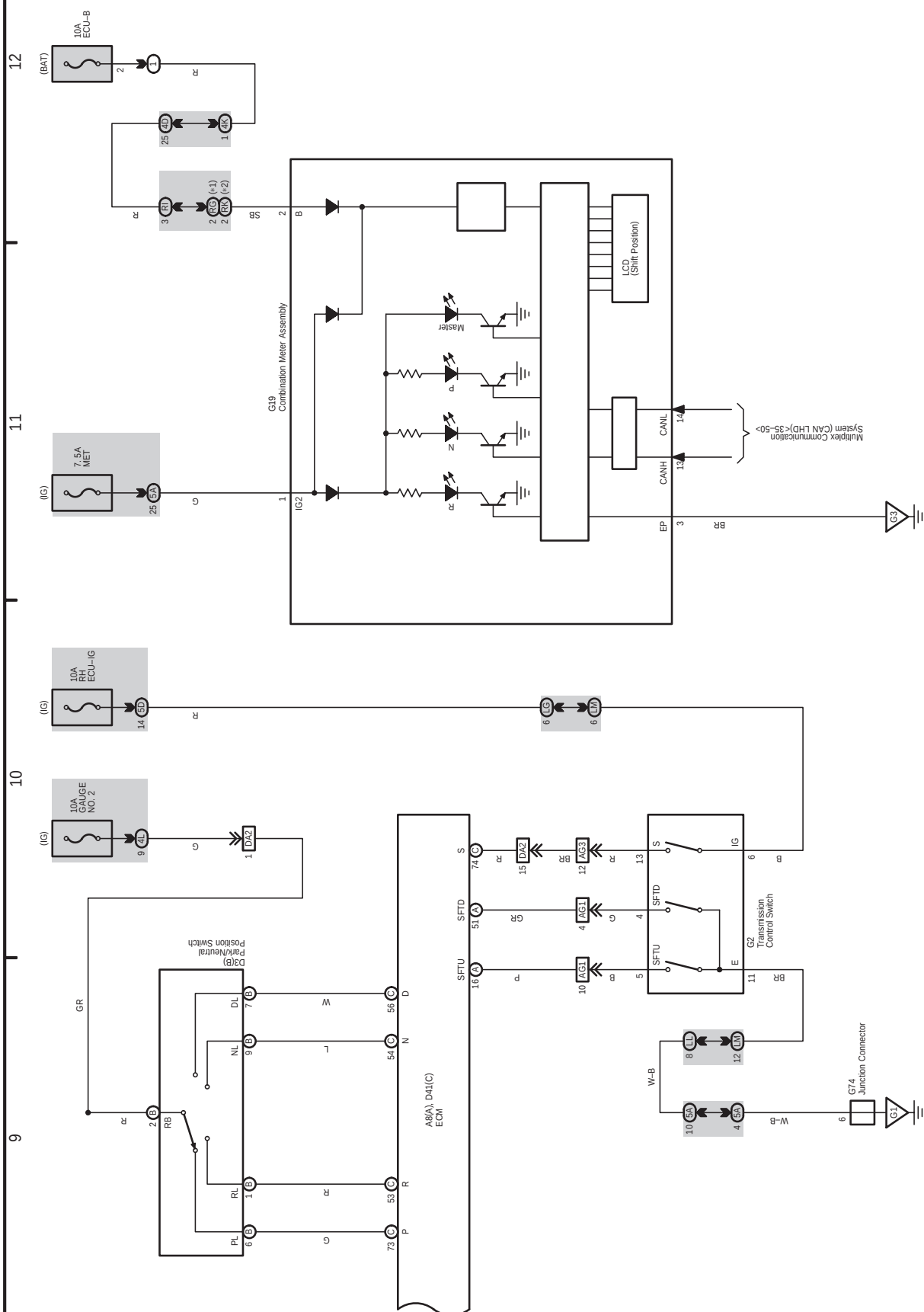
ECT and A/T Indicator (2AZ-FE)



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

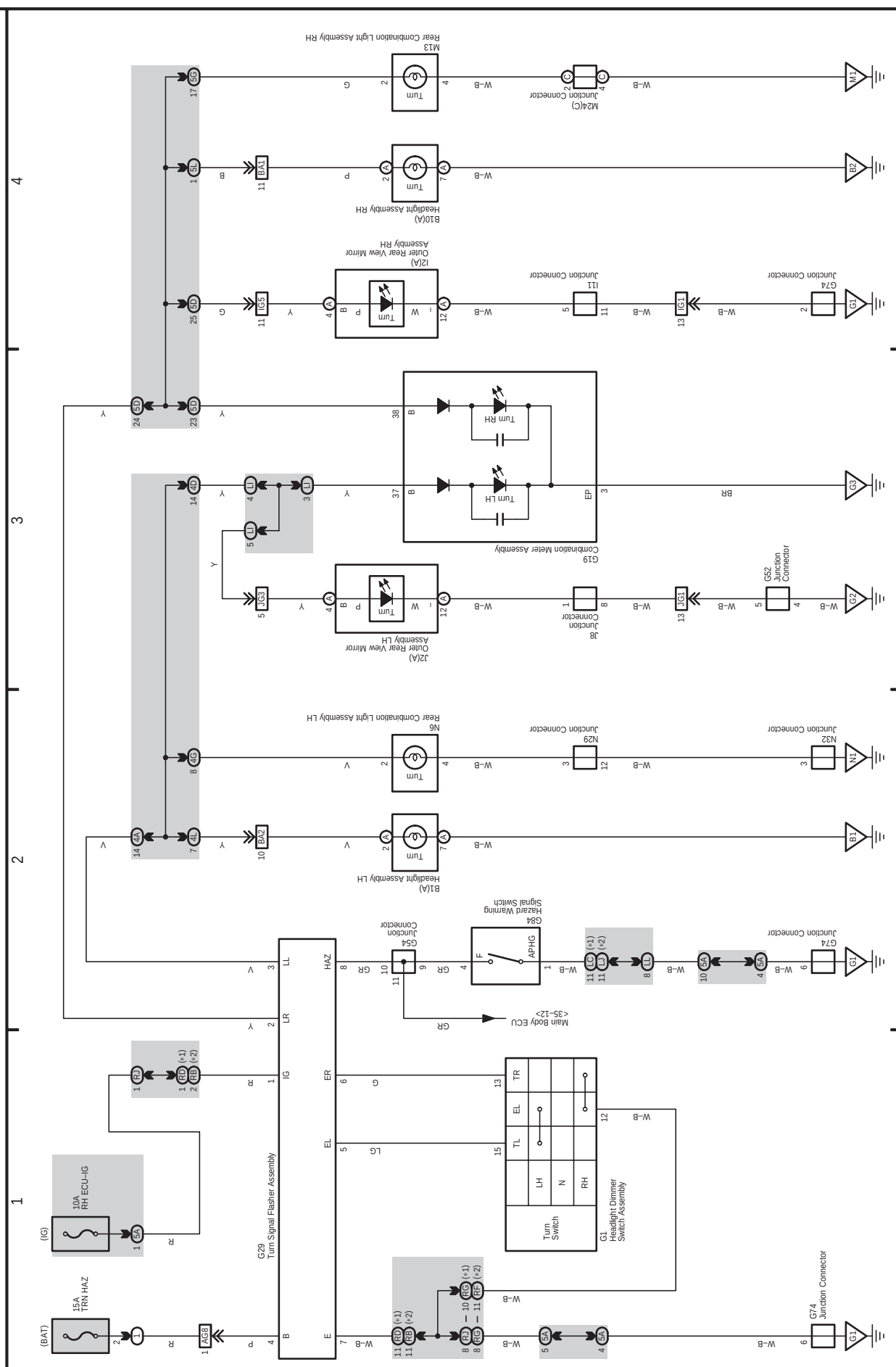


37 ALPHARD / VELLFIRE (Cont' d)



Turn Signal and Hazard Warning Light (LHD)

* 1 : Before Aug. 2010 Production
* 2 : From Aug. 2010 Production



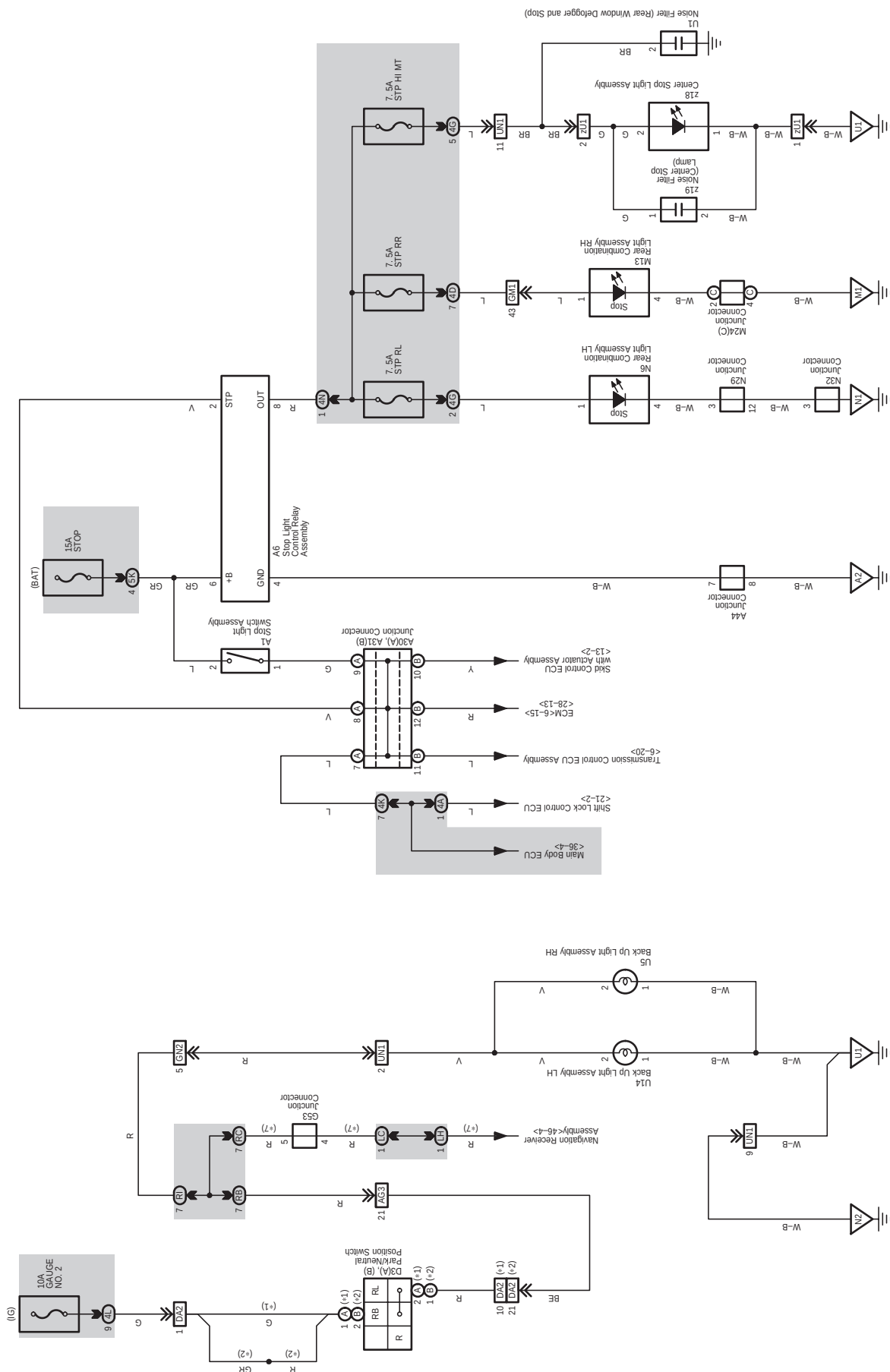
M OVERALL ELECTRICAL WIRING DIAGRAM

39 ALPHARD / VELLFIRE

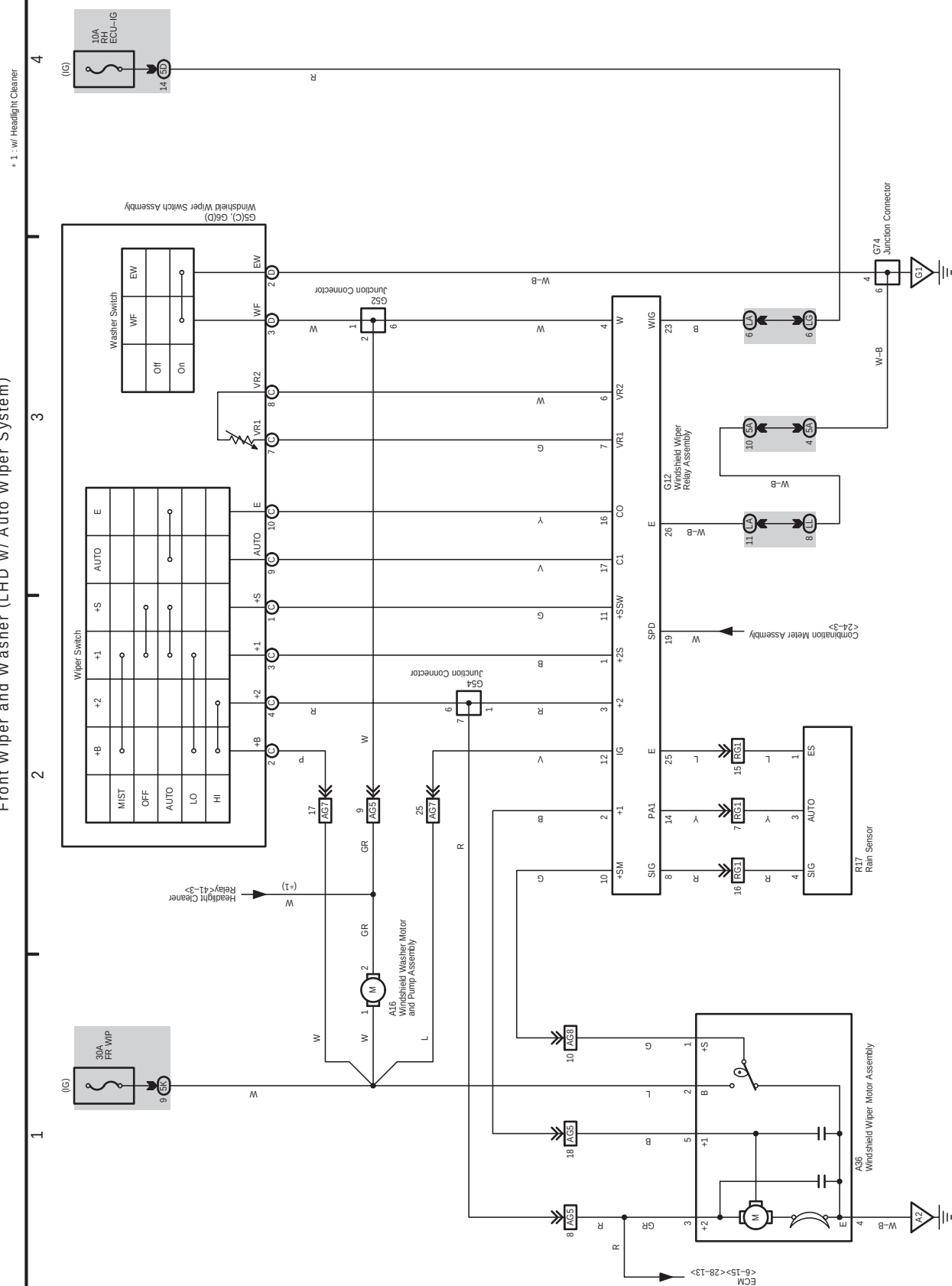
Back-Up Light (LHD)

Stop Light (LHD)

* 1 : 2GR-FE
* 2 : 2AZ-FE
* 7 : w/ Navigation System



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



M OVERALL ELECTRICAL WIRING DIAGRAM

41 ALPHARD / VELLFIRE

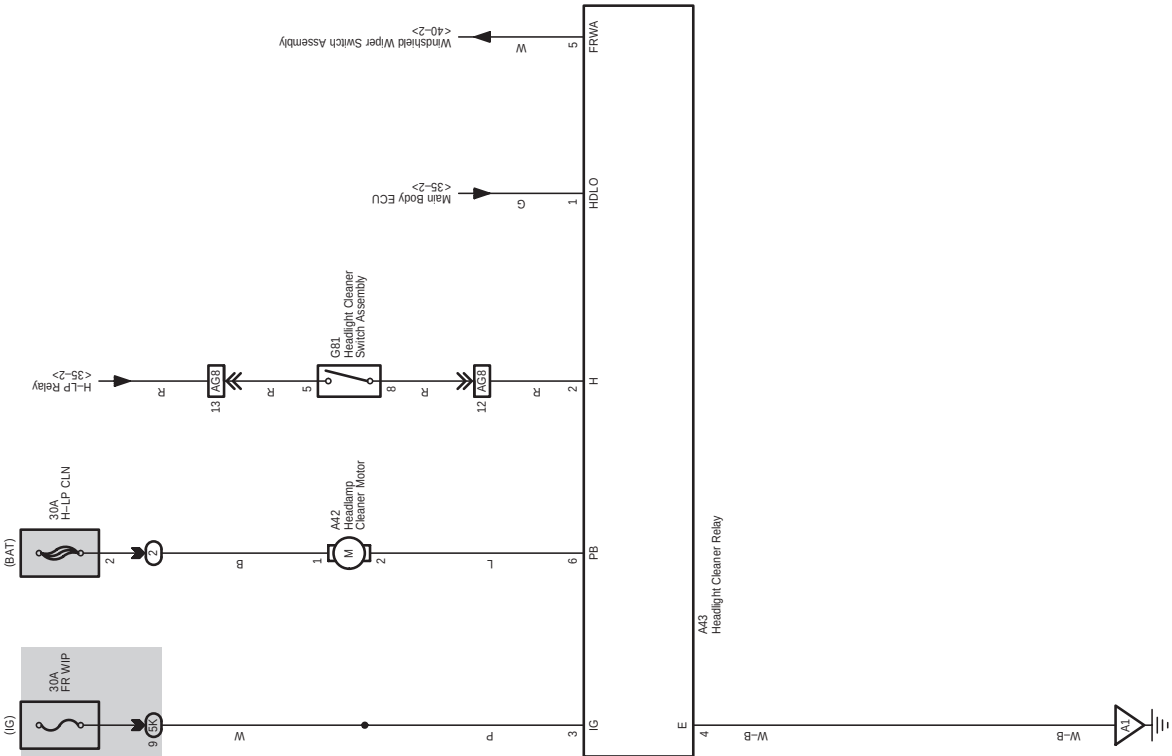
Headlight Cleaner

4

3

2

1

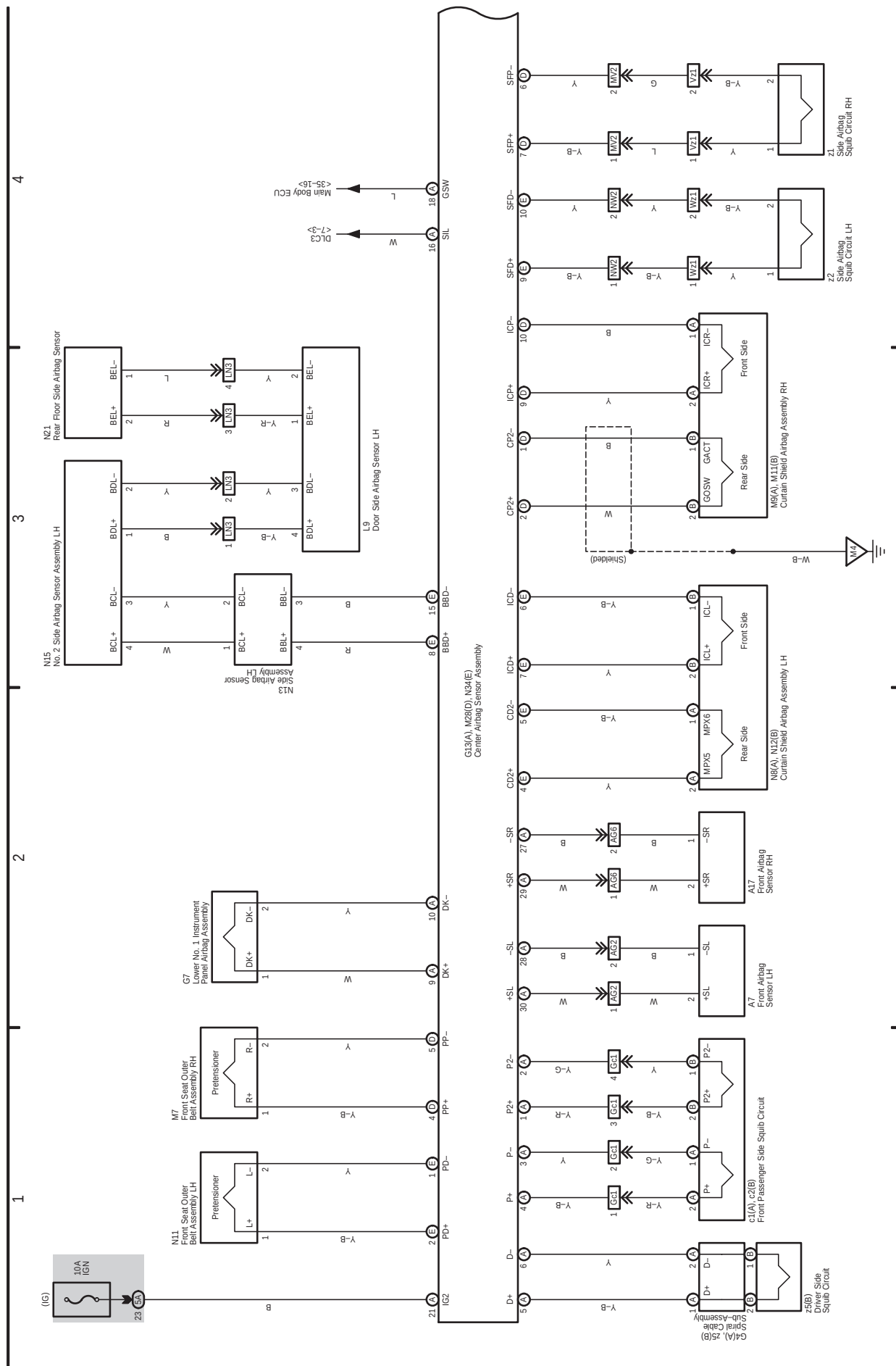


M OVERALL ELECTRICAL WIRING DIAGRAM

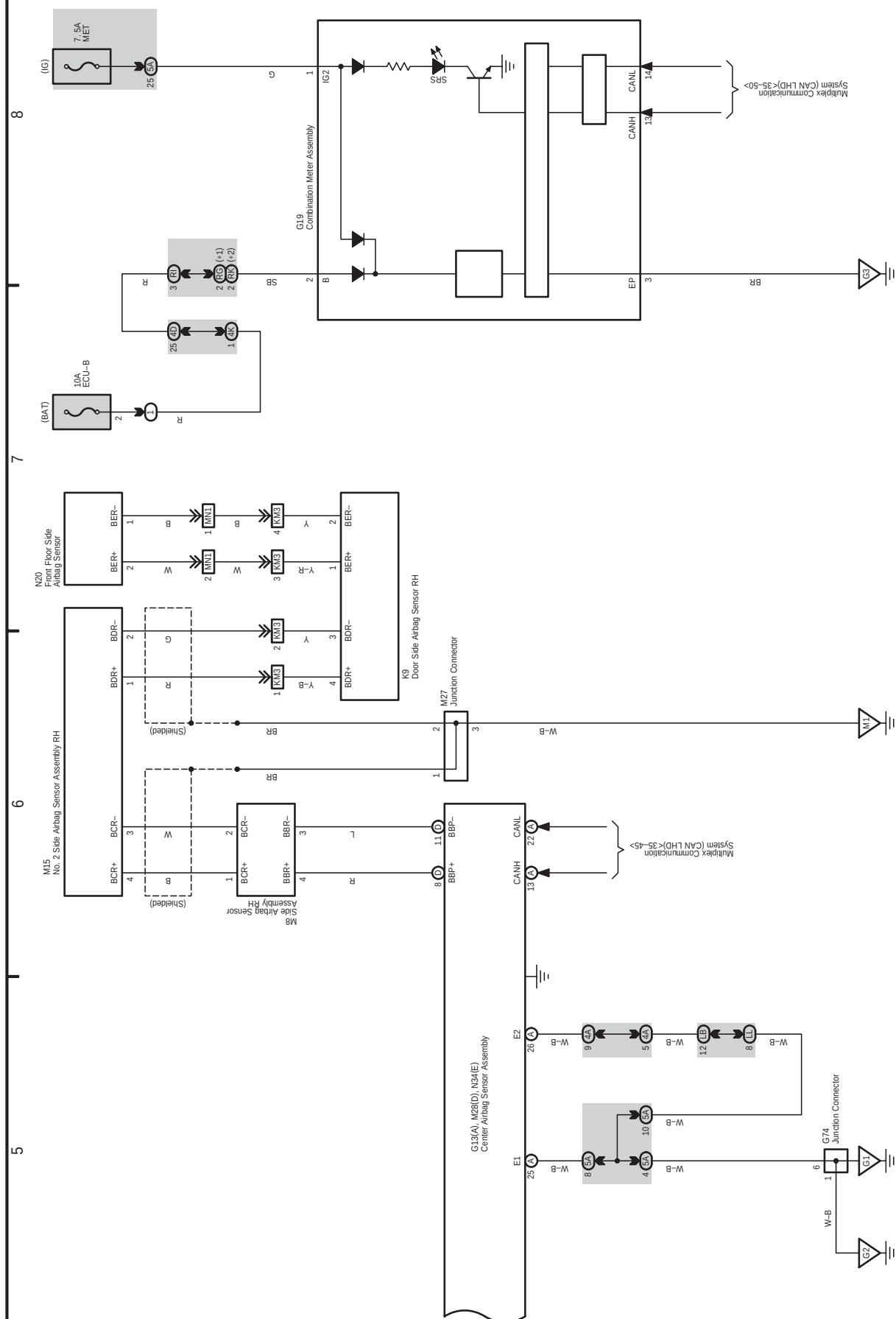
(Cont. next page)

42 ALPHARD / VELLFIRE

SRS (LHD)



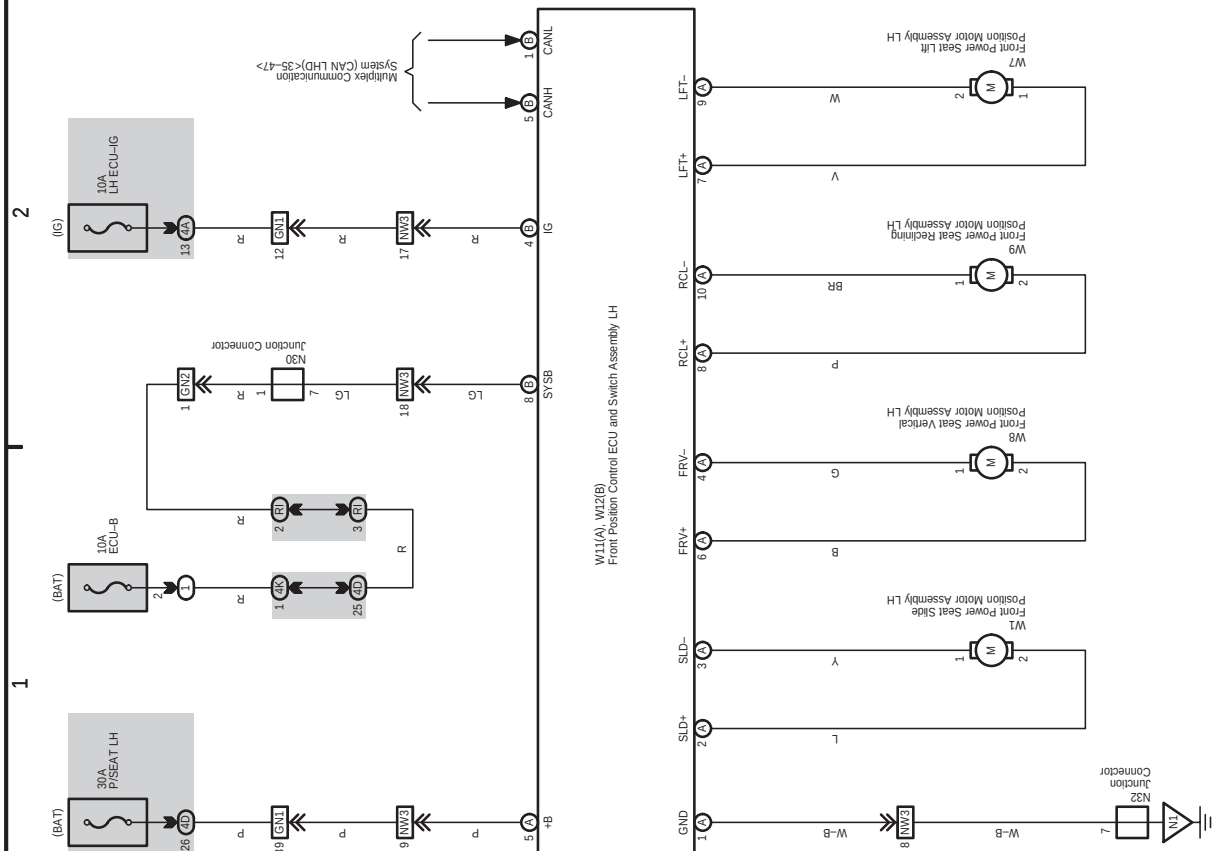
SRS (LHD)



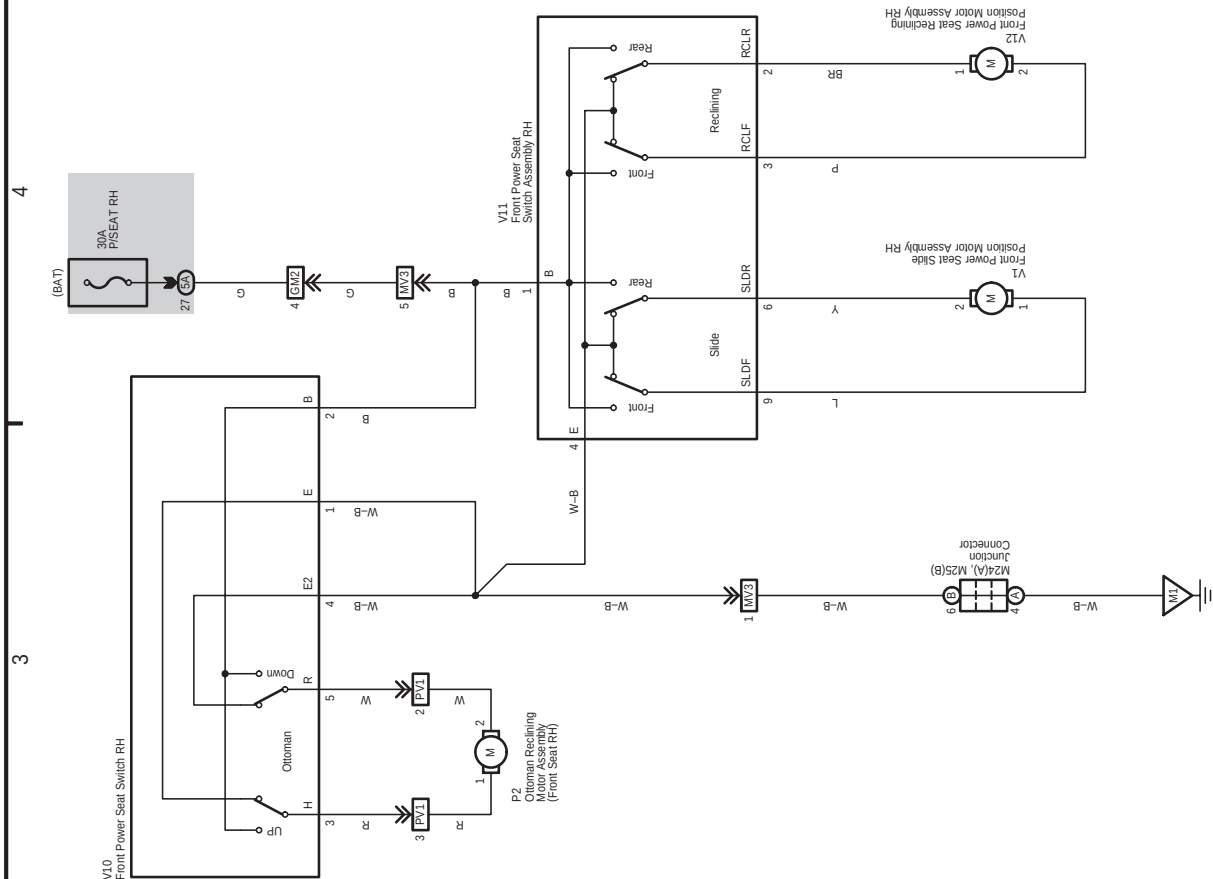
M OVERALL ELECTRICAL WIRING DIAGRAM

43 ALPHARD / VELLFIRE

Power Seat (LHD Driver' s Seat)

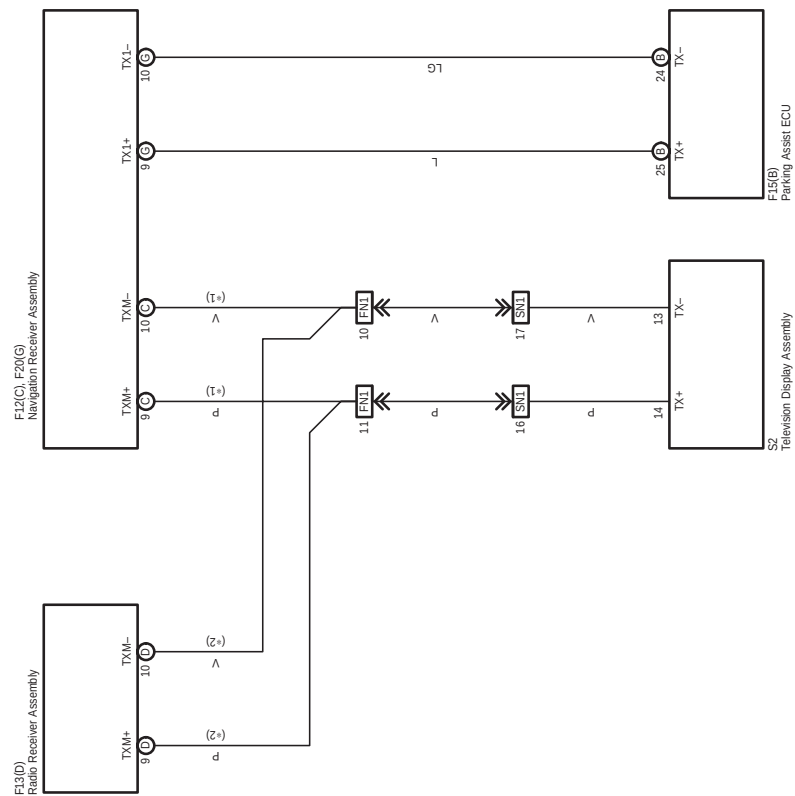


Power Seat (LHD Front Passenger' s Seat)



* 1 : w/ Navigation System
* 2 : w/o Navigation System

Multiplex Communication System (AVC-LAN)

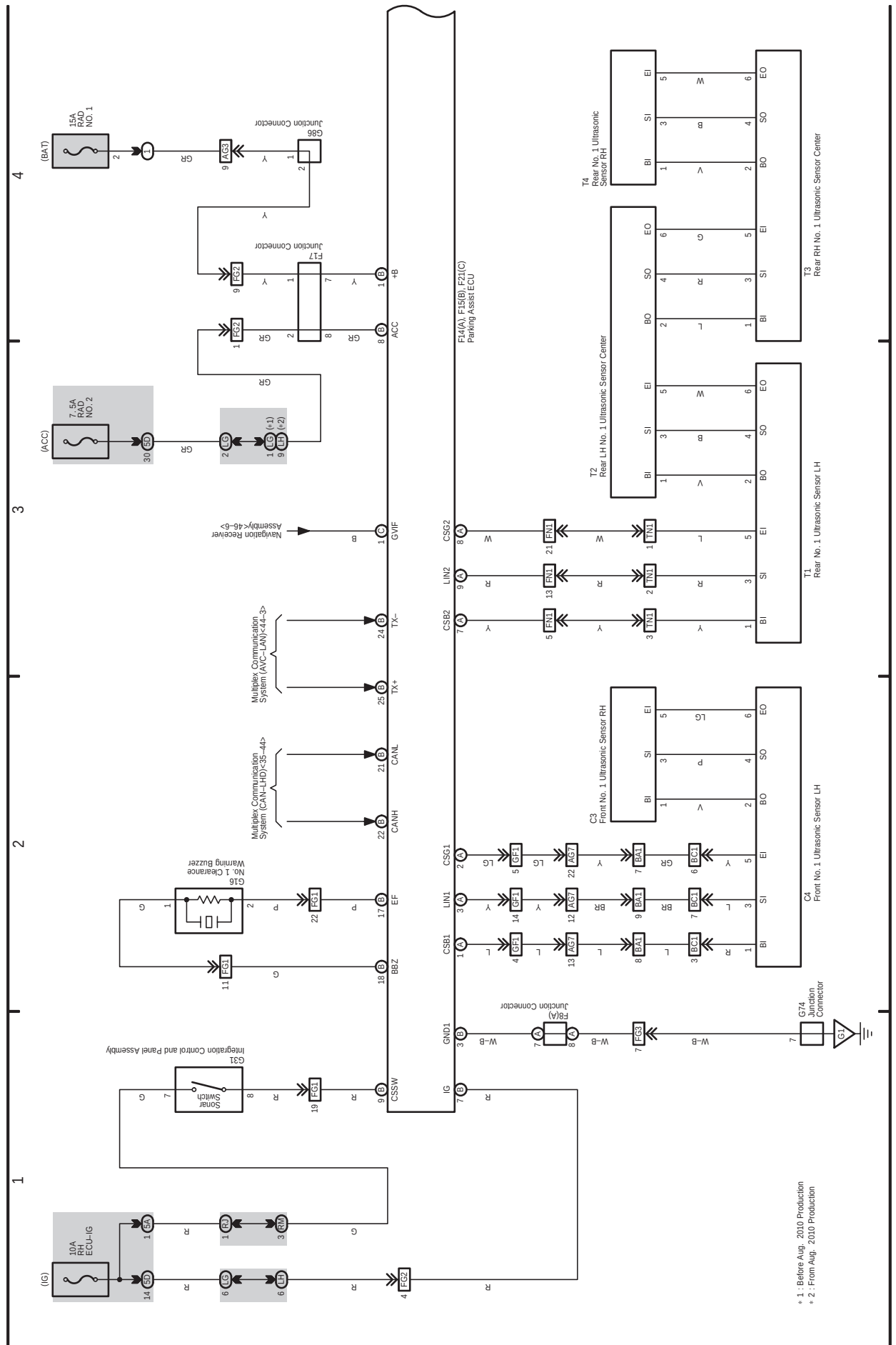


M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

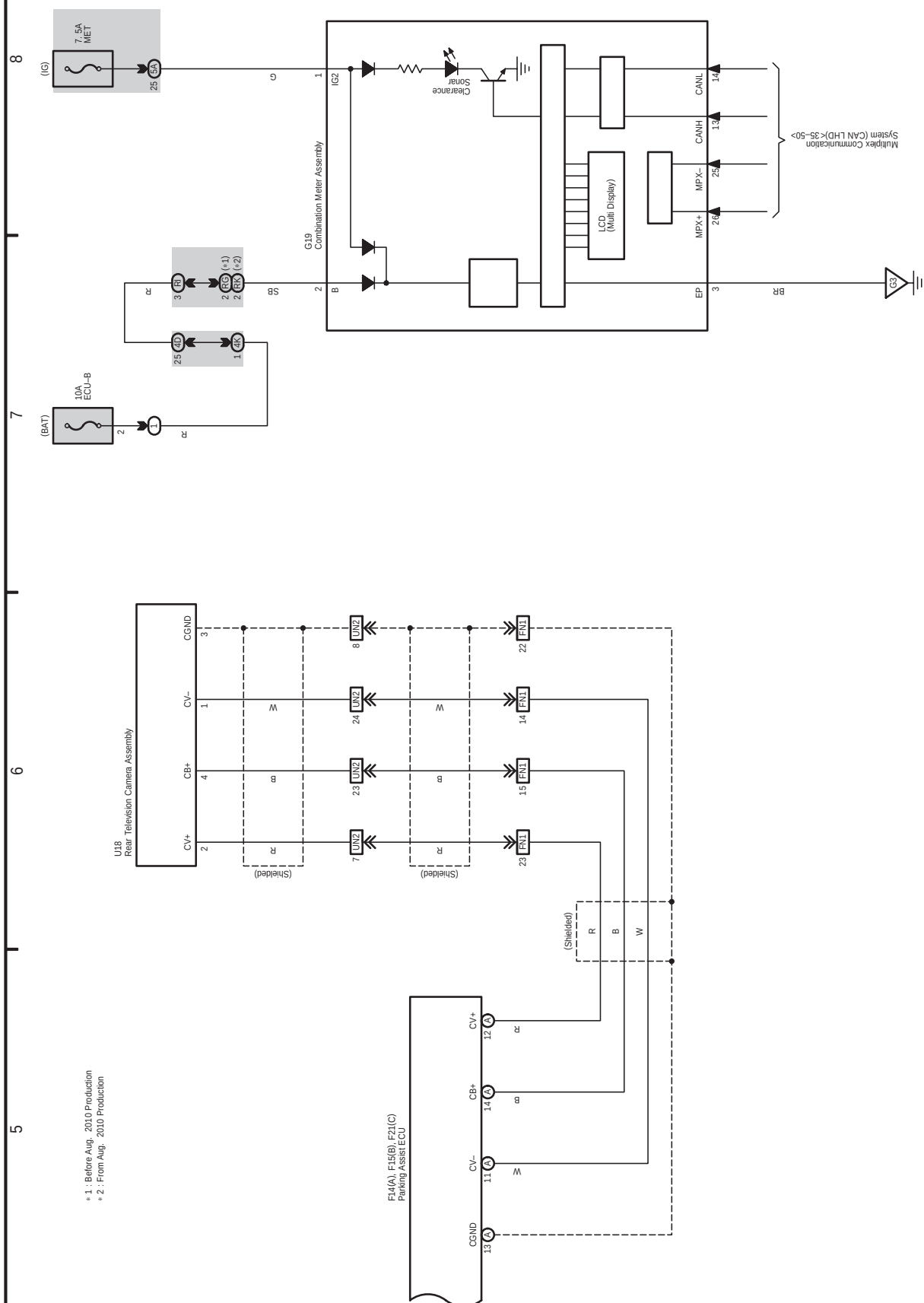
45 ALPHARD / VELLFIRE

Parking Assist (TOYOTA Parking Assist-Sensor w/ Back Guide Monitor) and Parking Assist (Back Guide Monitor)

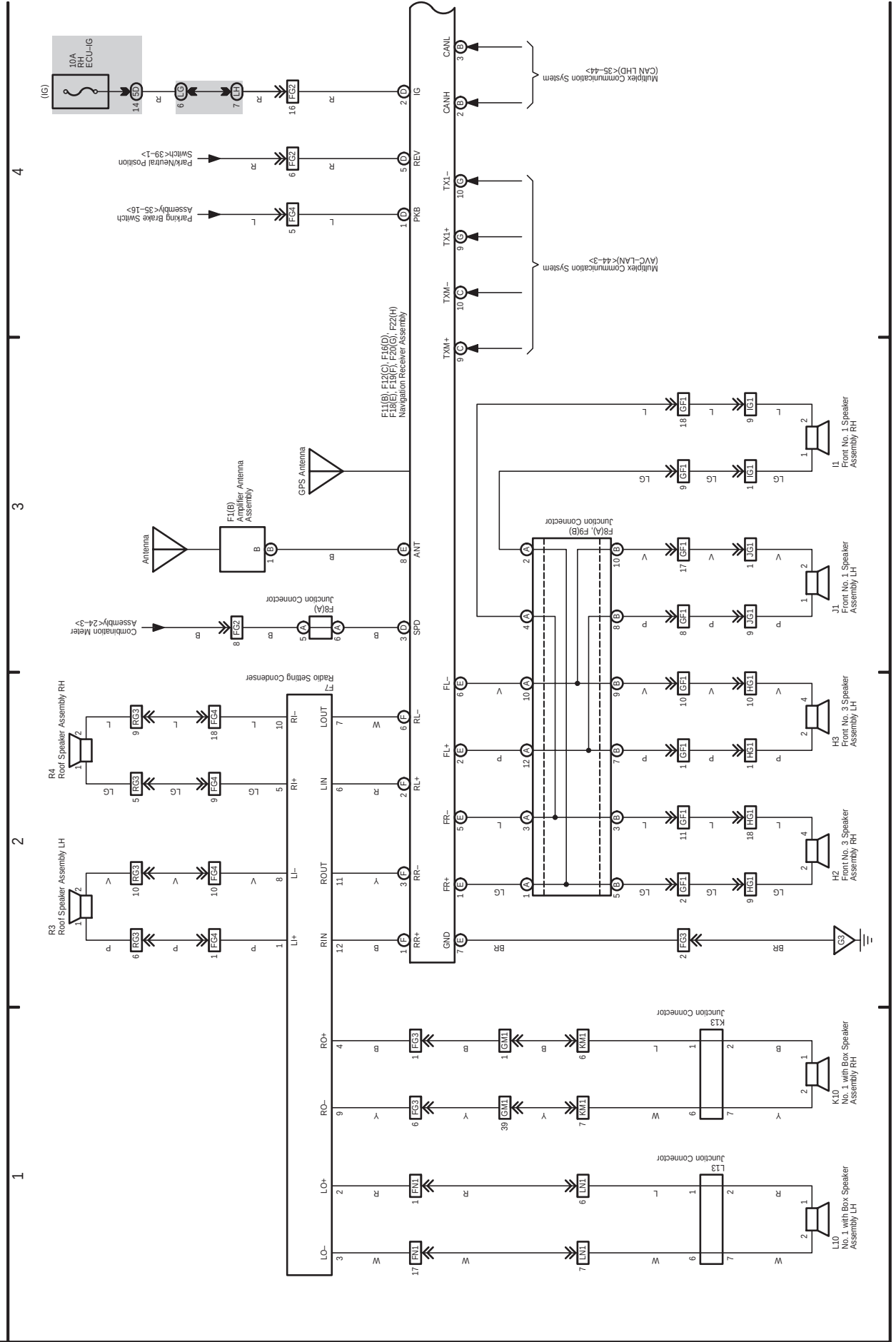


* 1. Before Aug. 2010 Production
* 2. From Aug. 2010 Production

Parking Assist (TOYOTA Parking Assist-Sensor w/ Back Guide Monitor) and Parking Assist (Back Guide Monitor)

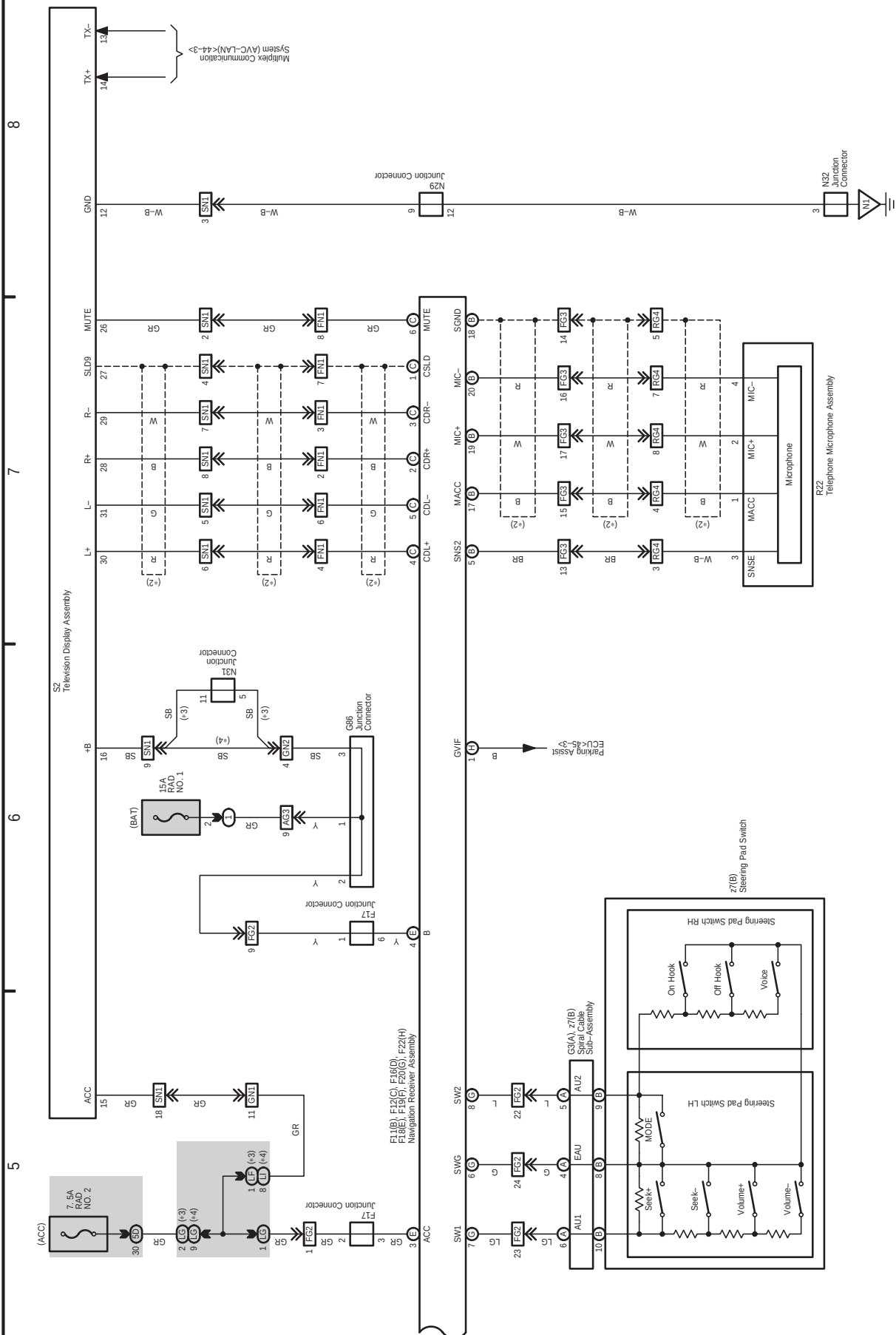


Audio System (LHD w/ Navigation System) and Navigation System (LHD)

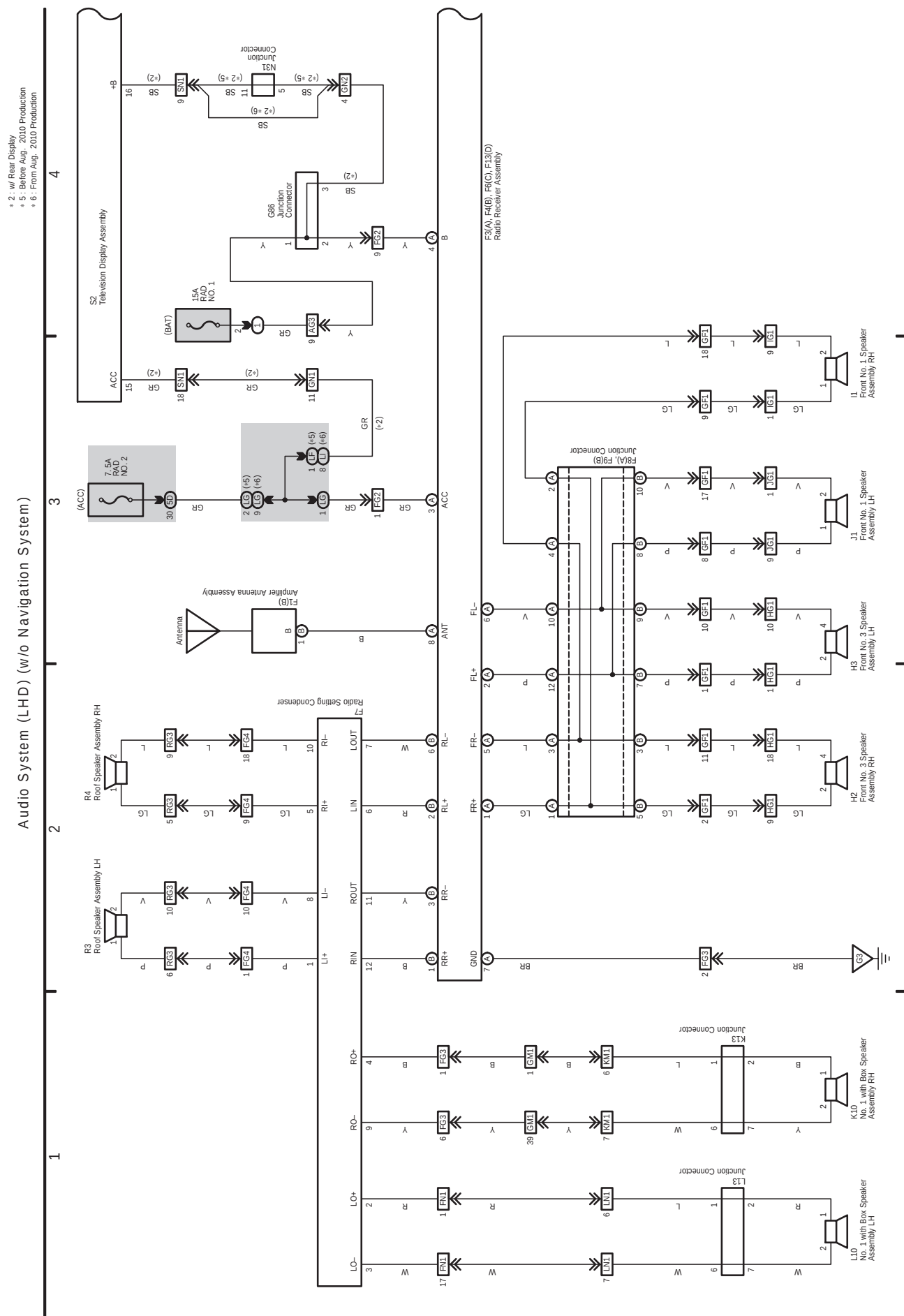


M OVERALL ELECTRICAL WIRING DIAGRAM

Audio System (LHD w/ Navigation System) and Navigation System (LHD)

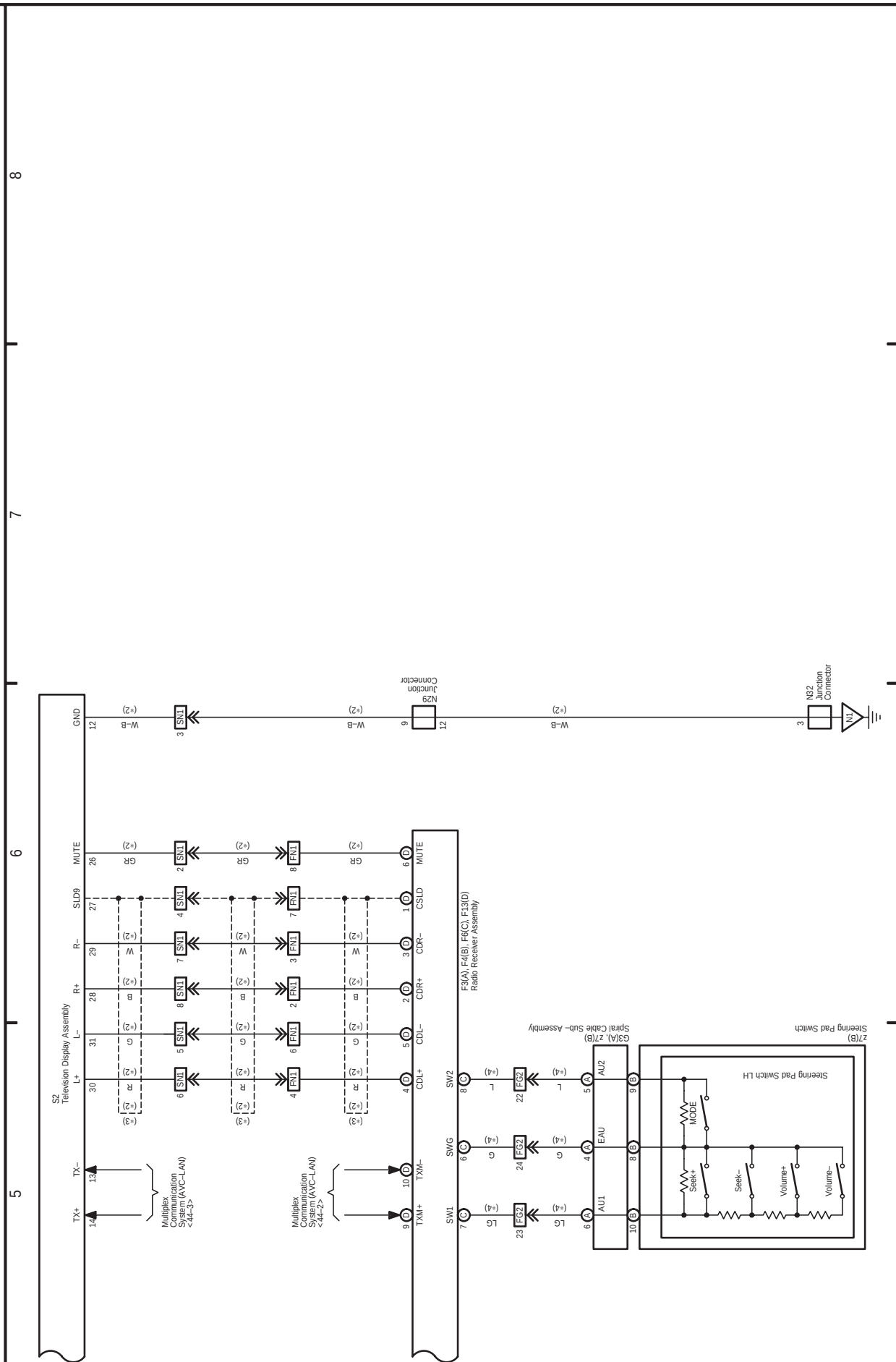


M OVERALL ELECTRICAL WIRING DIAGRAM



Audio System (LHD) (w/o Navigation System)

* 2 : w/ Rear Display
* 3 : Shielded
* 4 : w/ Steering Pad Switch



M OVERALL ELECTRICAL WIRING DIAGRAM

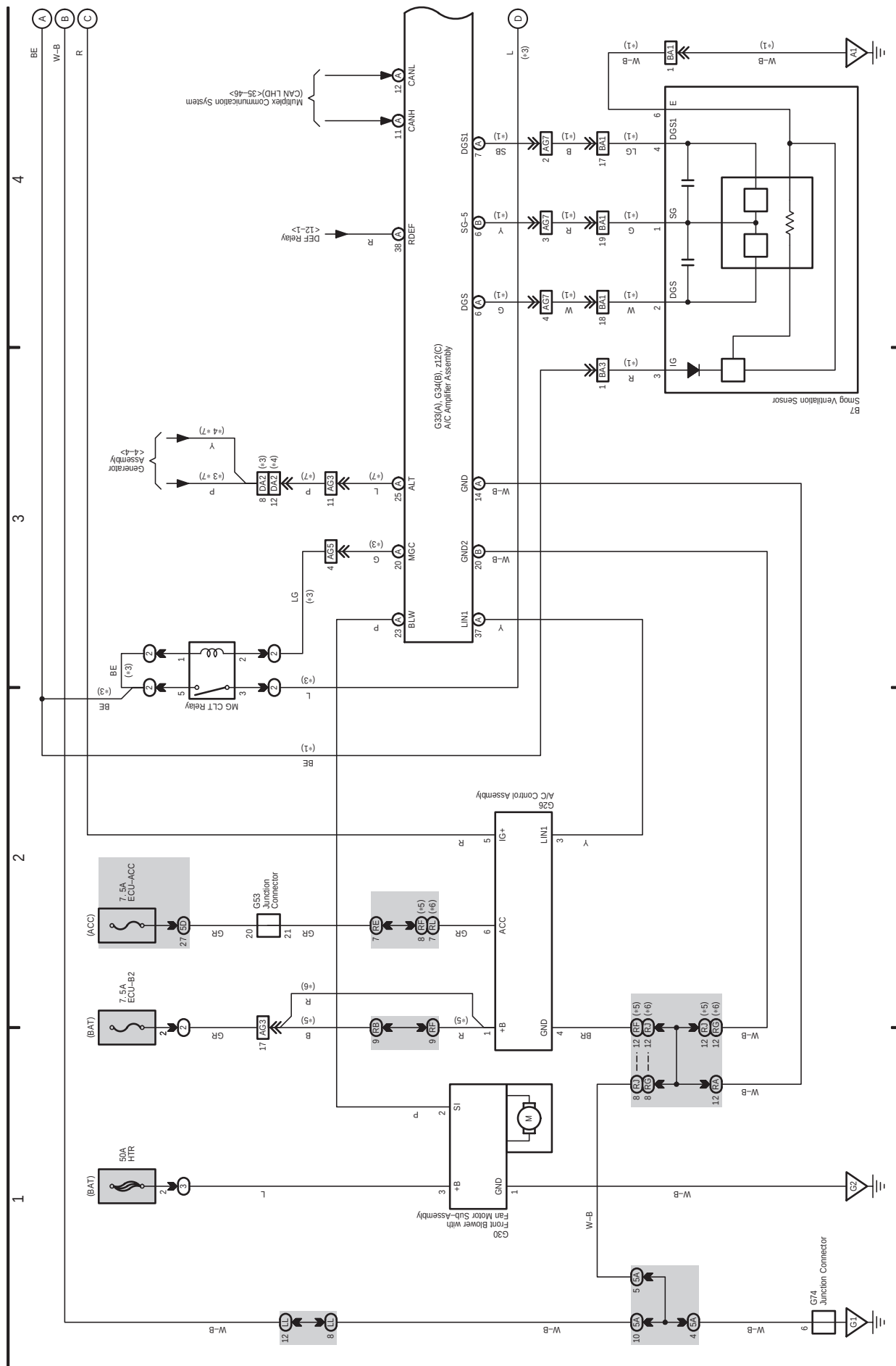
48 ALPHARD / VELLFIRE

(Cont. next page)

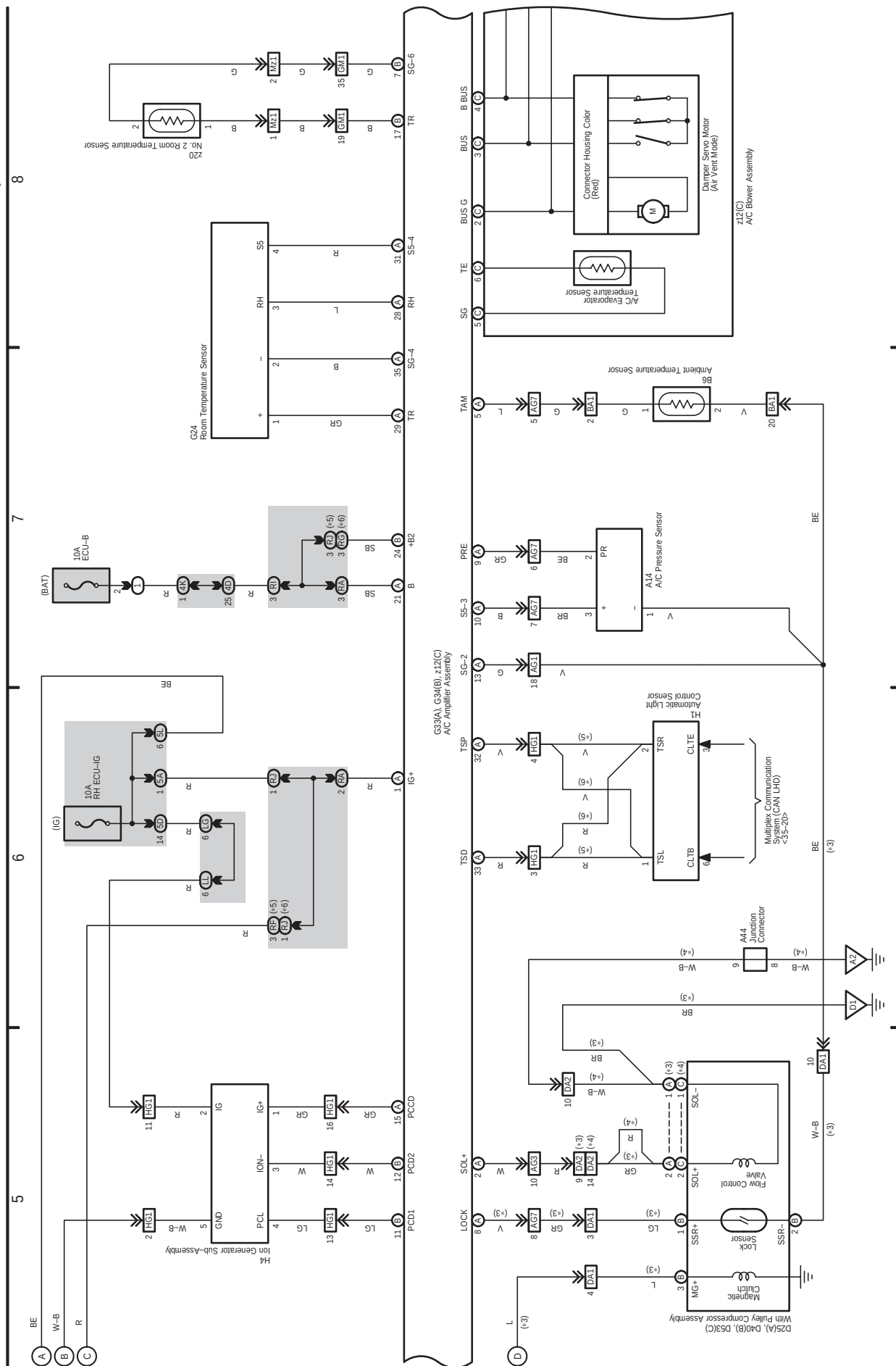
* 1 : w/ Automatic Recirculation Control System
* 3 : 2GR-FE
* 4 : 2AZ-FE

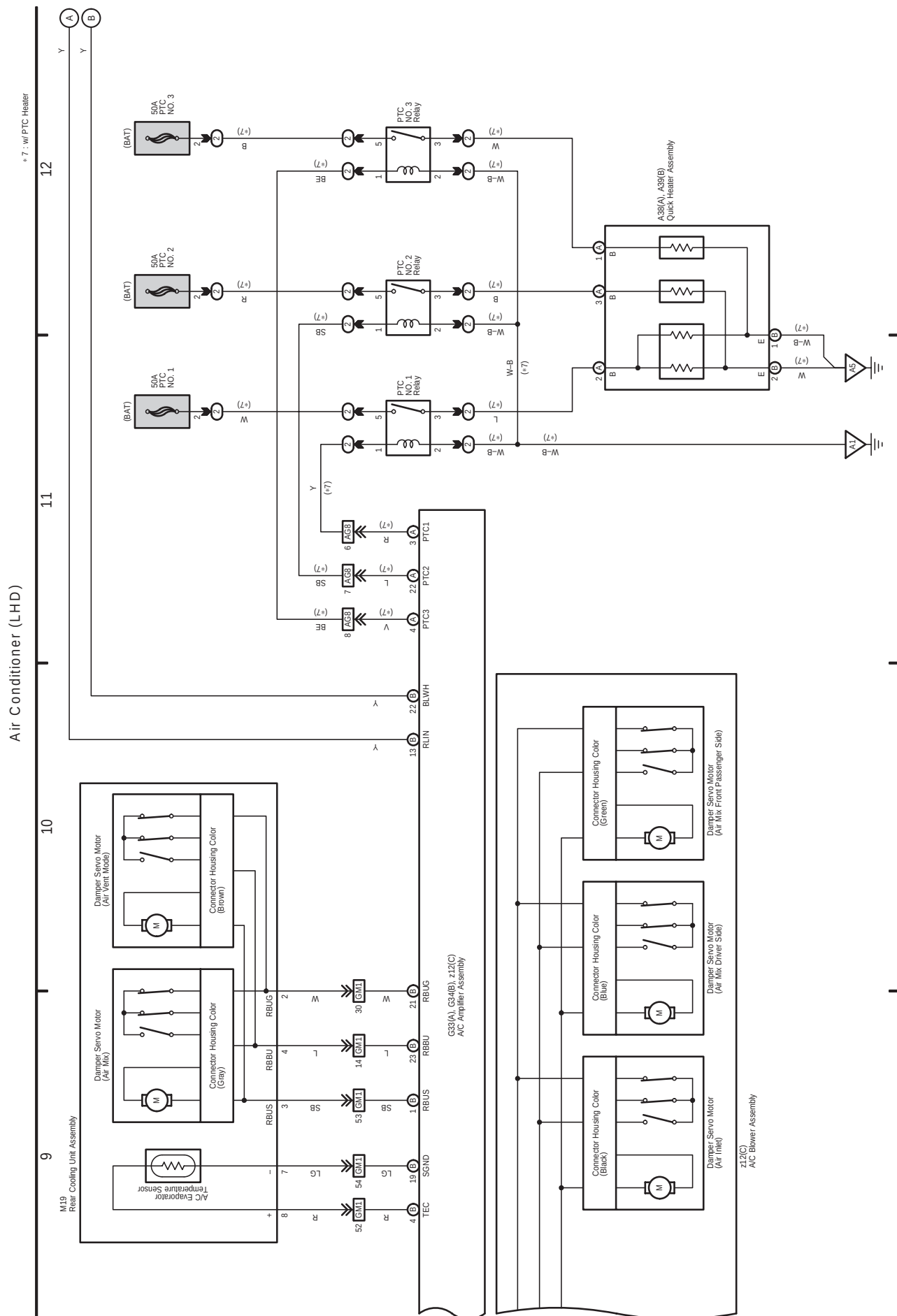
* 5 : Before Aug. 2010 Production
* 6 : From Aug. 2010 Production
* 7 : w/ PTC Heater

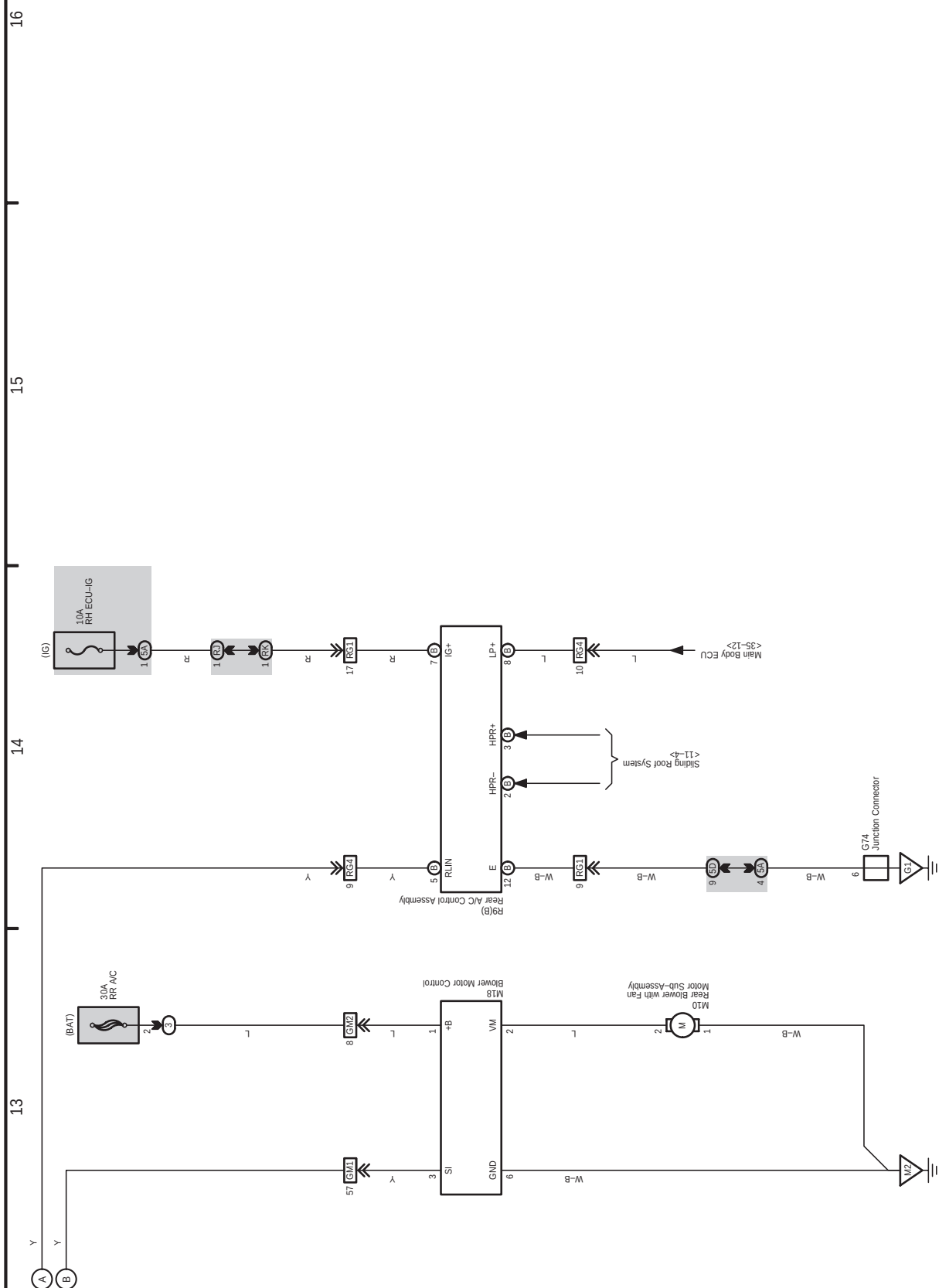
Air Conditioner (LHD)



* 4 : ZAZ-FE
* 5 : Before Aug. 2010 Production
* 6 : From Aug. 2010 Production







49 ALPHARD / VELLFIRE

