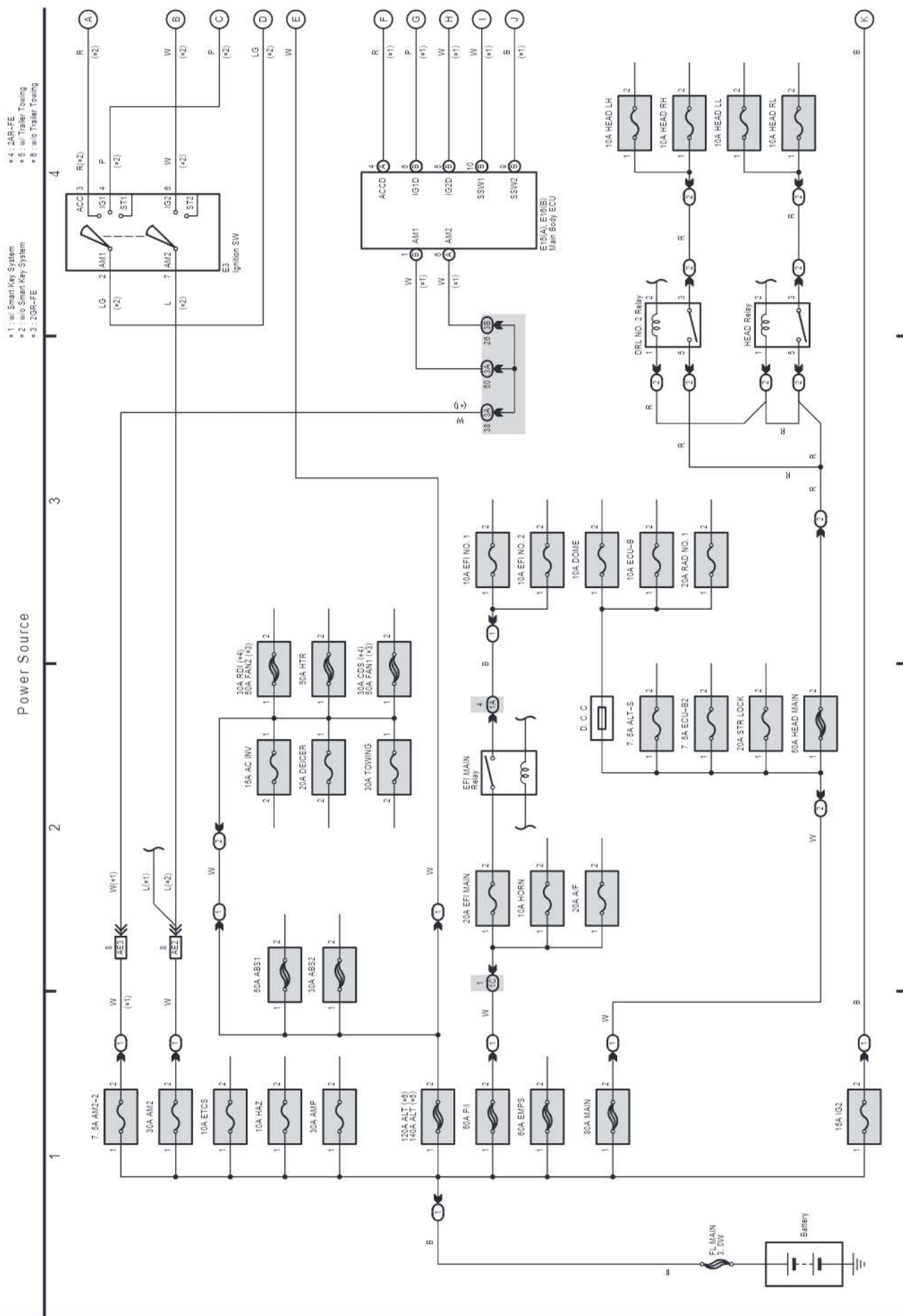


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RAV4 (EM16B0U)

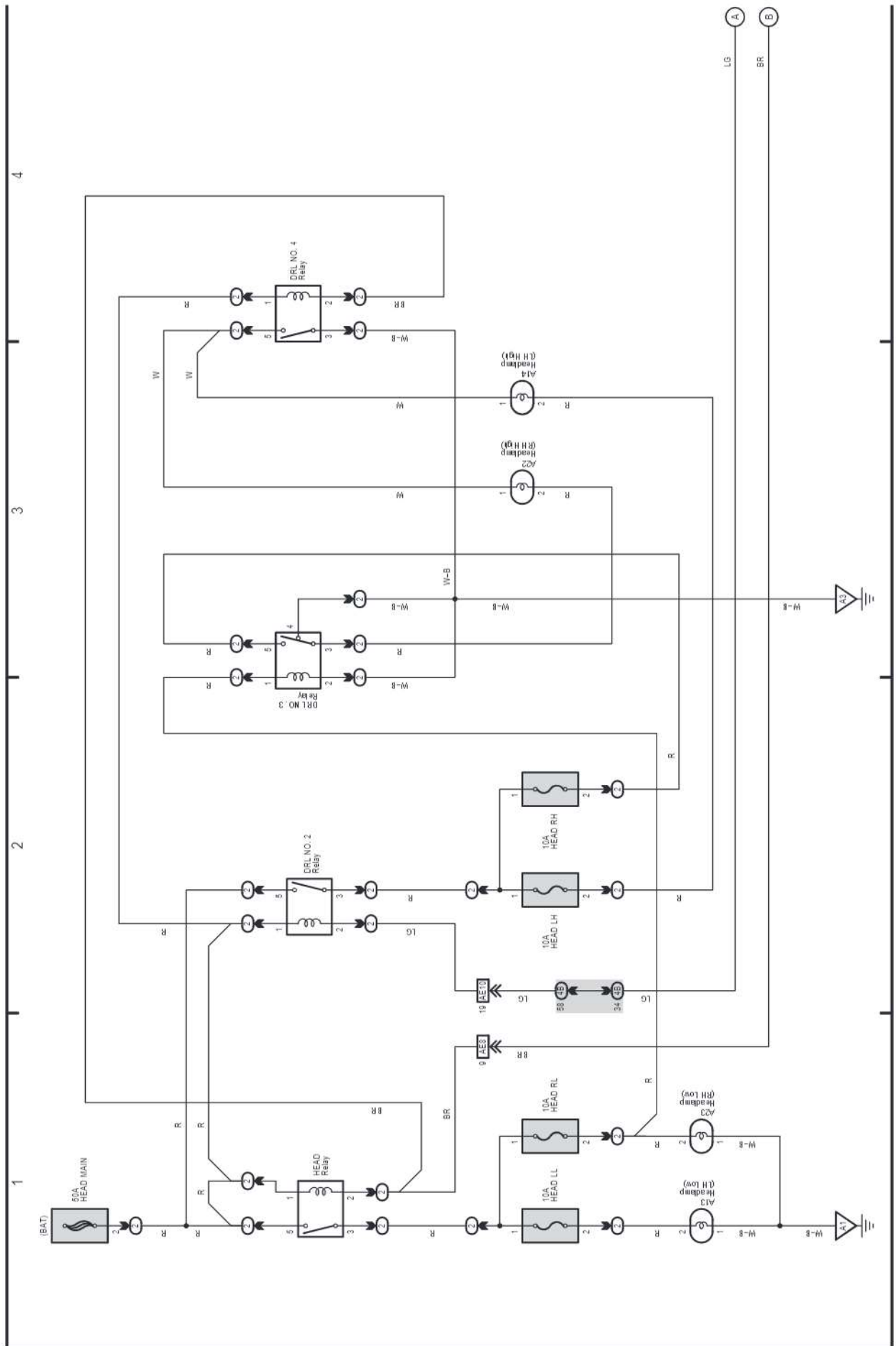


M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

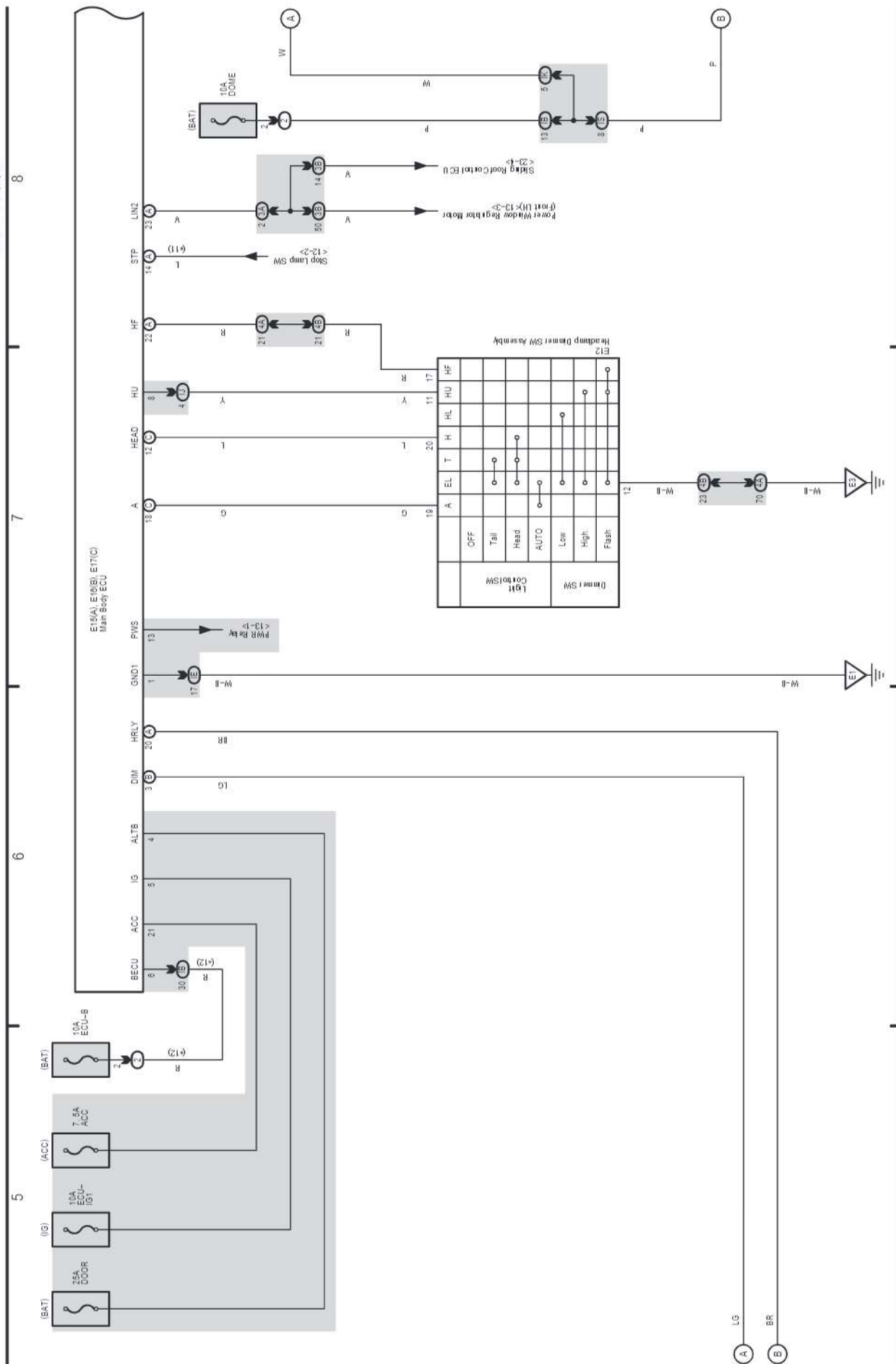
2 RAV4

Multiplex Communication System (CAN)



RAV4 (EM16B0U)

#11 : w/ Smart Key System
#12 : w/o Smart Key System



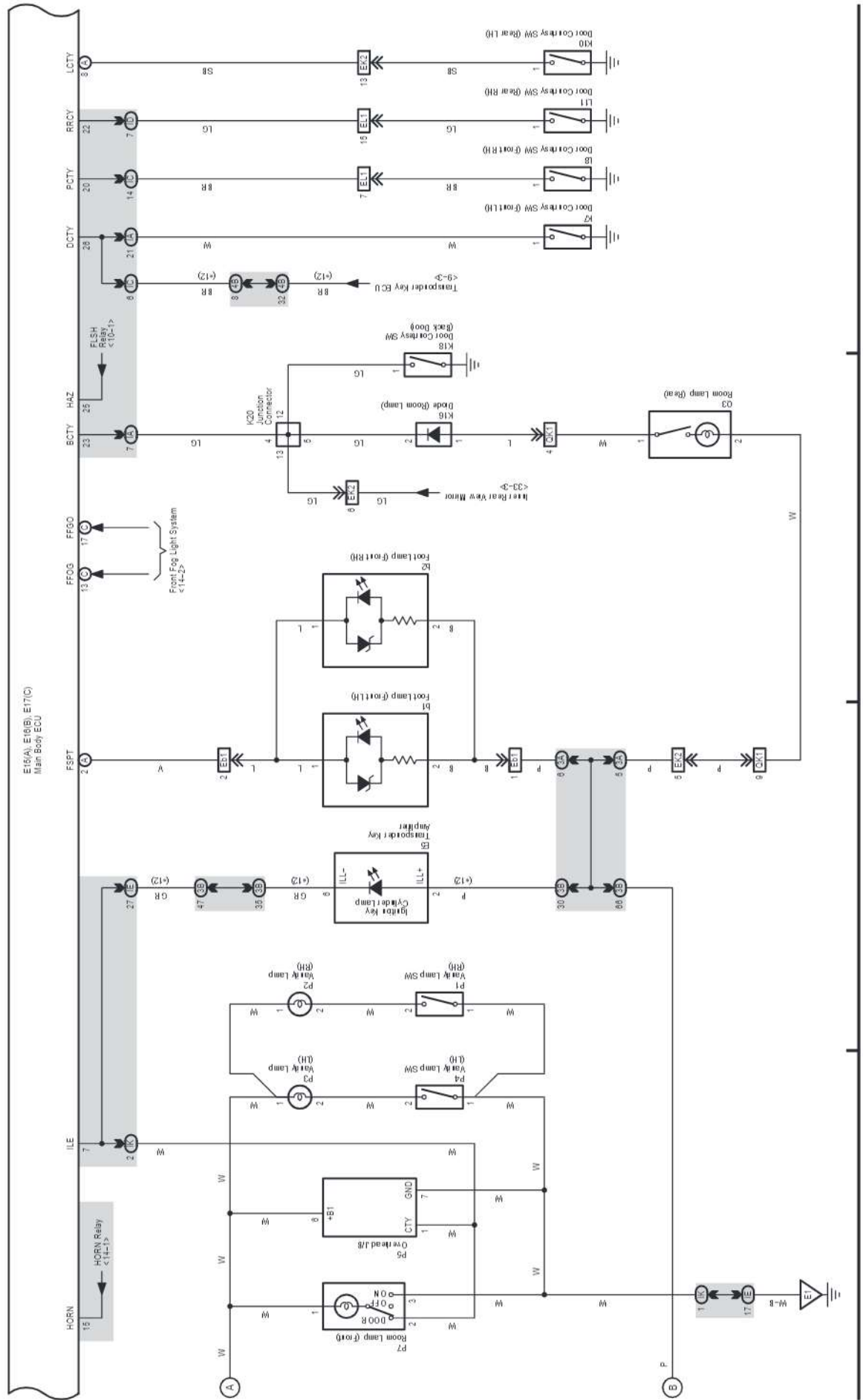
M OVERALL ELECTRICAL WIRING DIAGRAM

2 RAV4 (Cont' d)

(Cont. next page)

Multiplex Communication System (CAN)

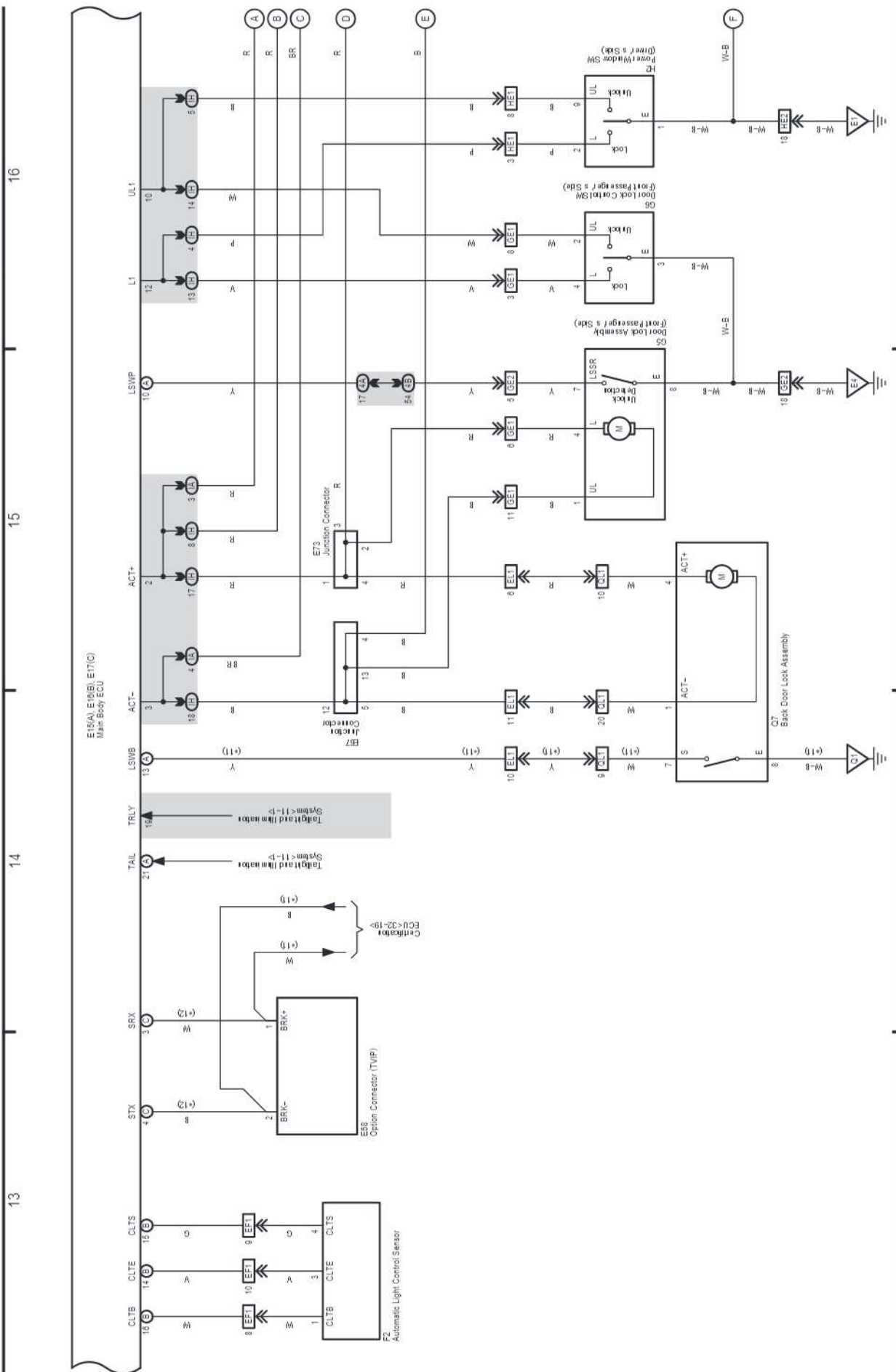
*12 : no Smart Key System



RAV4 (EM16B0U)

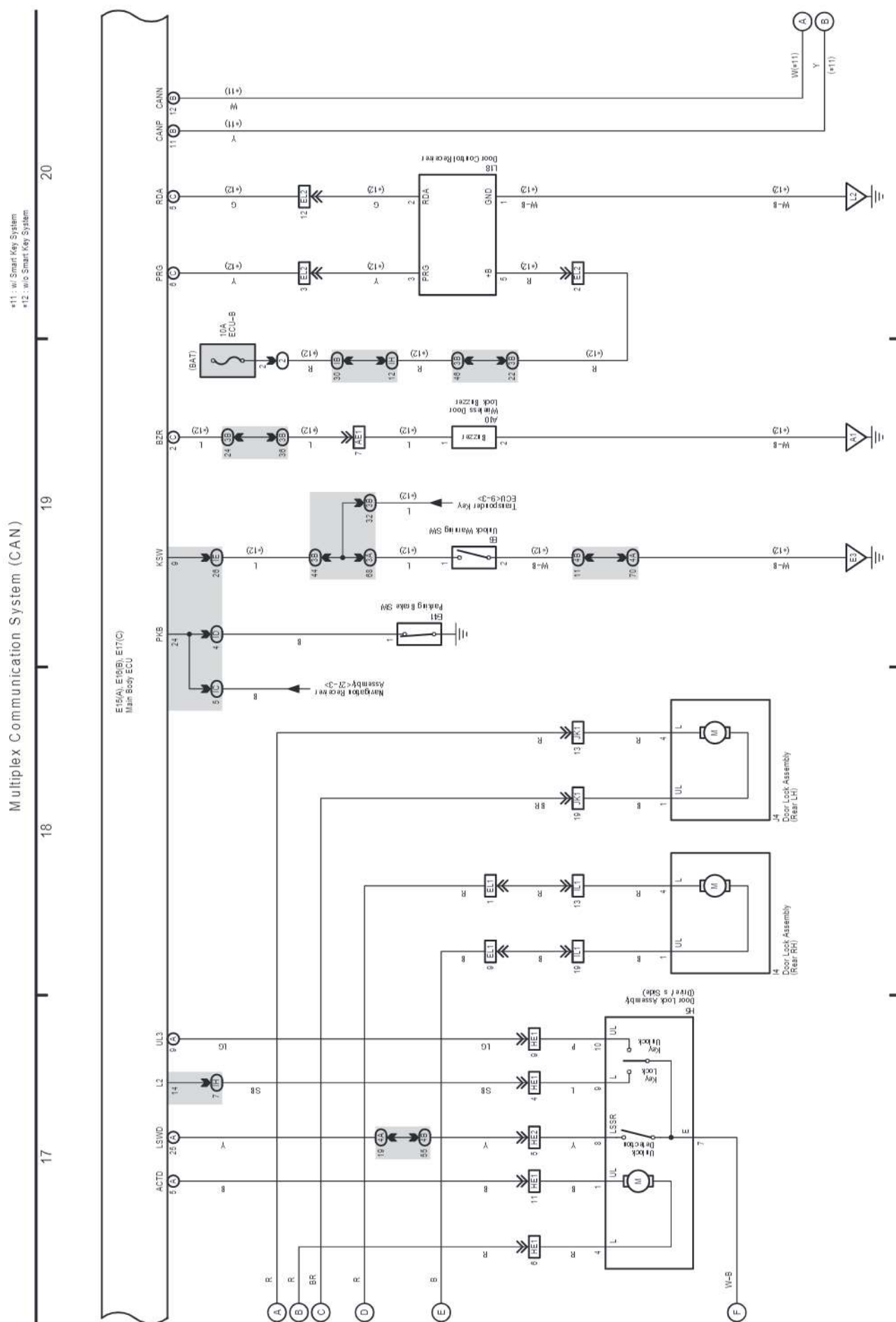
Multiplex Communication System (CAN)

*11 - w/ Smart Key System
 *12 - w/o Smart Key System



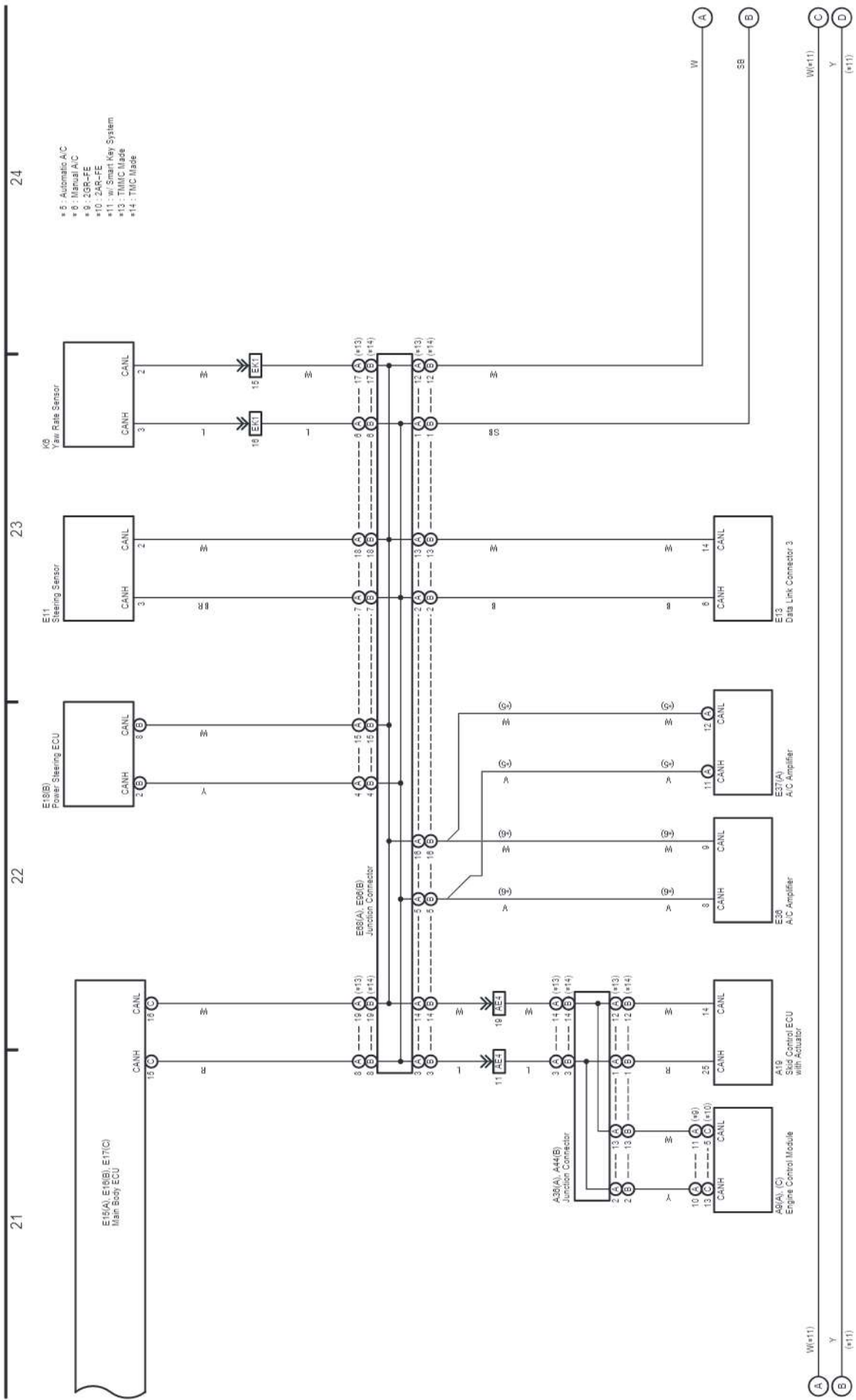
(Cont. next page)

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RAV4 (EM16B0U)

Multiplex Communication System (CAN)



2 RAV4 (Cont' d)



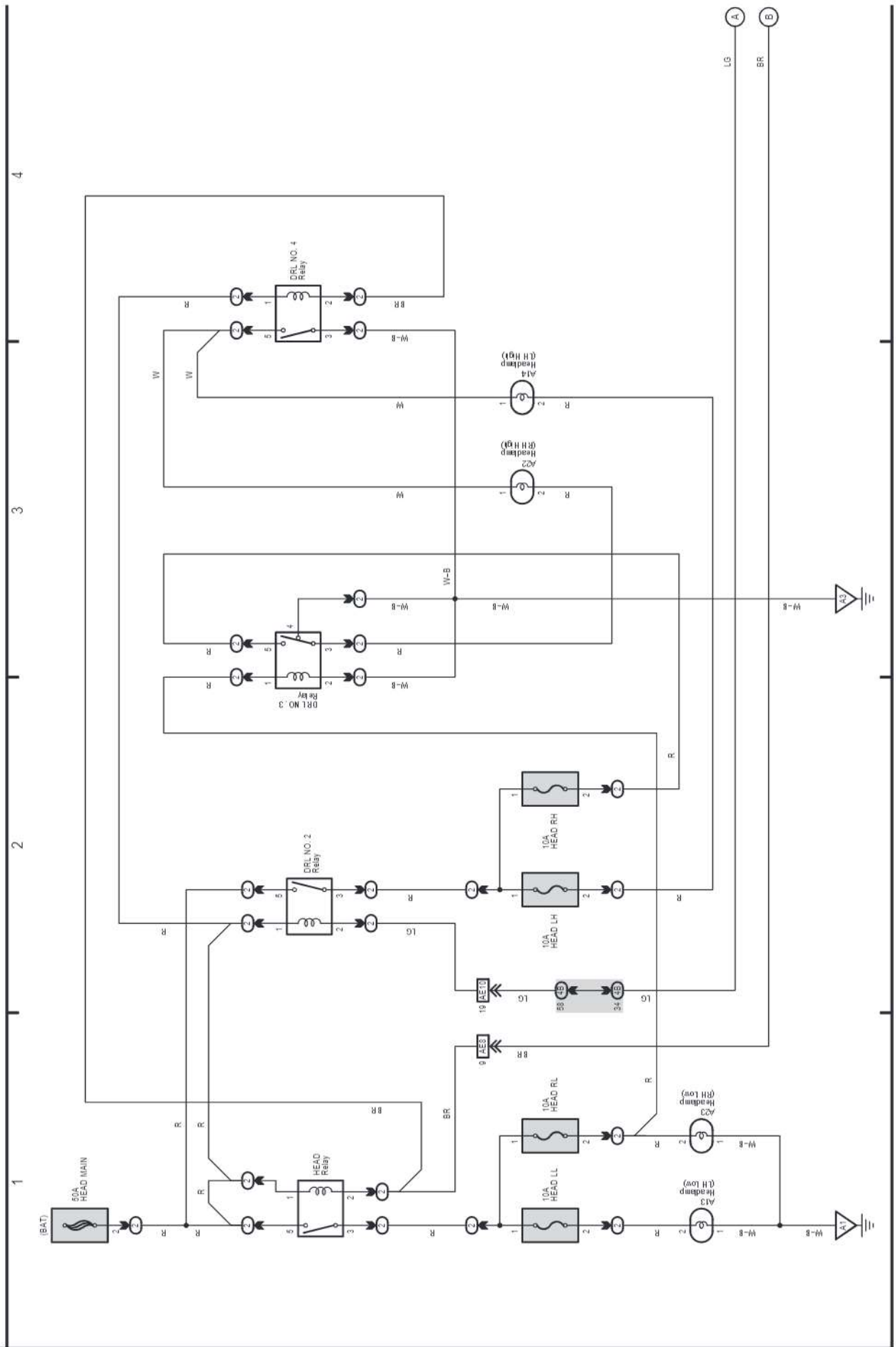
A diagram showing two qubits, C and D, represented as circles. Qubit C is the control qubit, and qubit D is the target qubit. A vertical line labeled 'C' is connected to a circle labeled 'C'. A vertical line labeled 'D' is connected to a circle labeled 'D'. A horizontal line connects the two vertical lines, with a 'Y' label above it. The vertical line for C is labeled $W(\pi\uparrow)$ at the top, and the vertical line for D is labeled $(\pi\uparrow)$ at the top.

M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

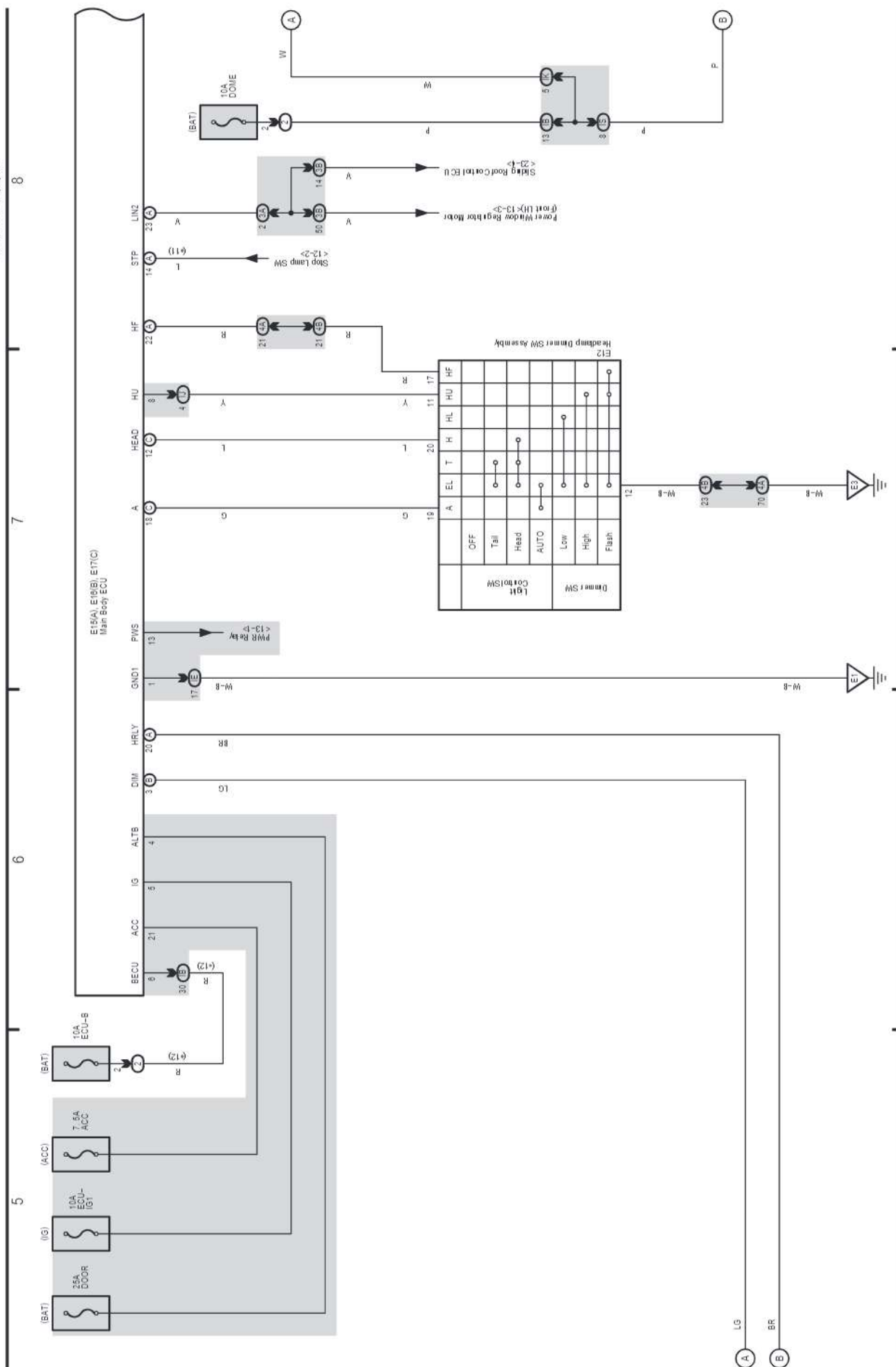
2 RAV4

Multiplex Communication System (CAN)



RAV4 (EM16B0U)

#11 : w/ Smart Key System
#12 : w/o Smart Key System



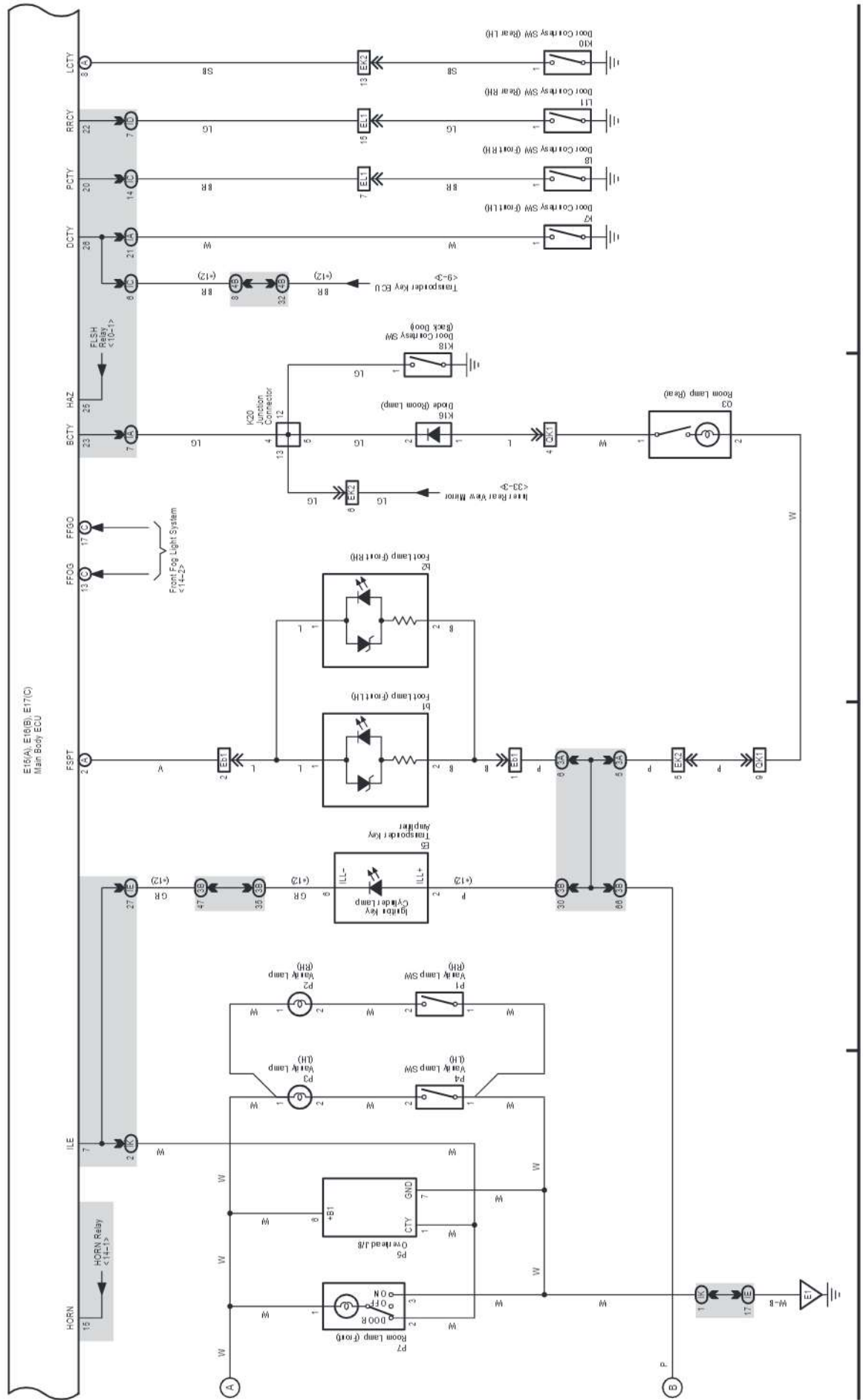
M OVERALL ELECTRICAL WIRING DIAGRAM

2 RAV4 (Cont' d)

(Cont. next page)

Multiplex Communication System (CAN)

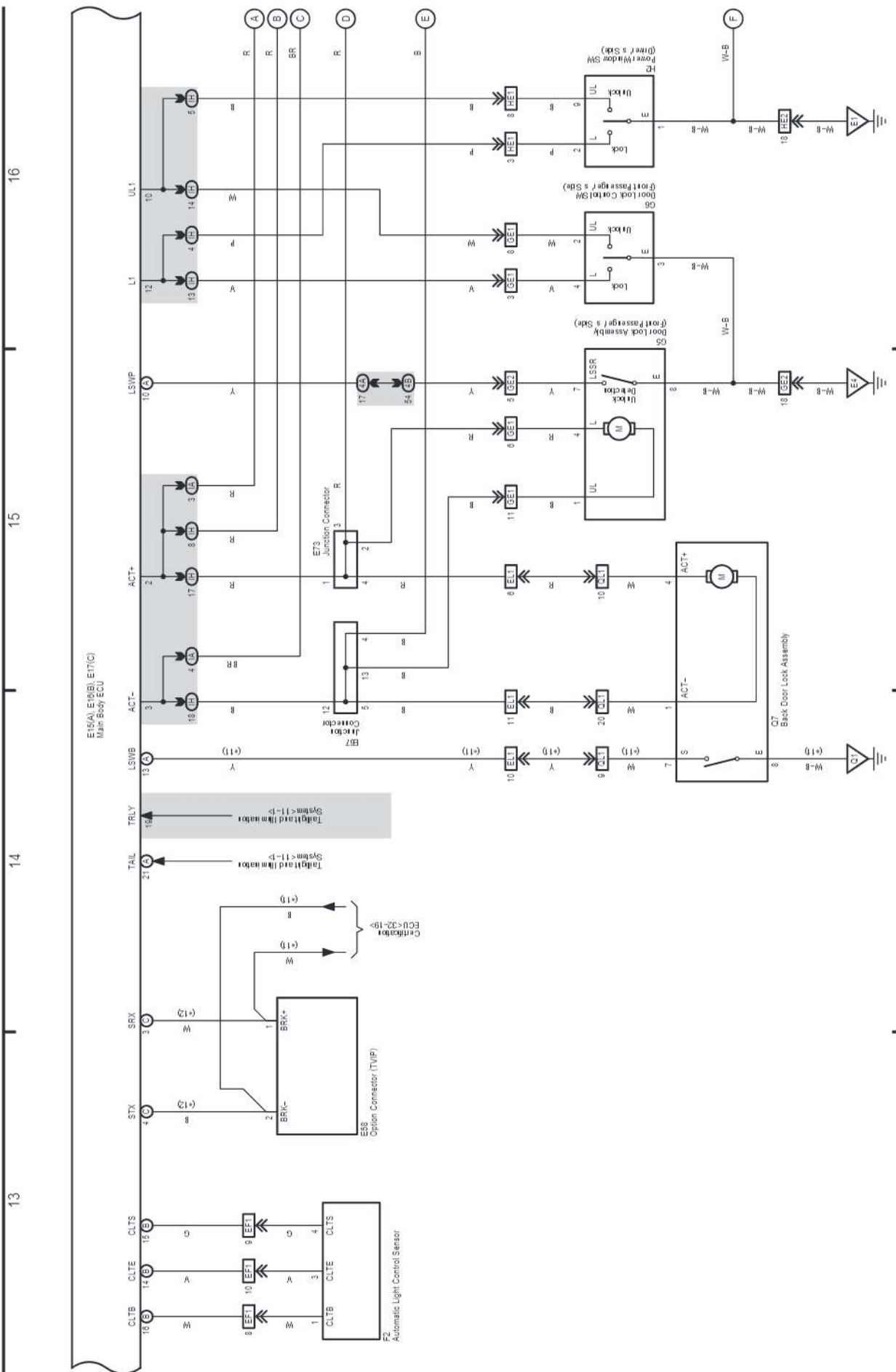
*12 : no Smart Key System



RAV4 (EM16B0U)

Multiplex Communication System (CAN)

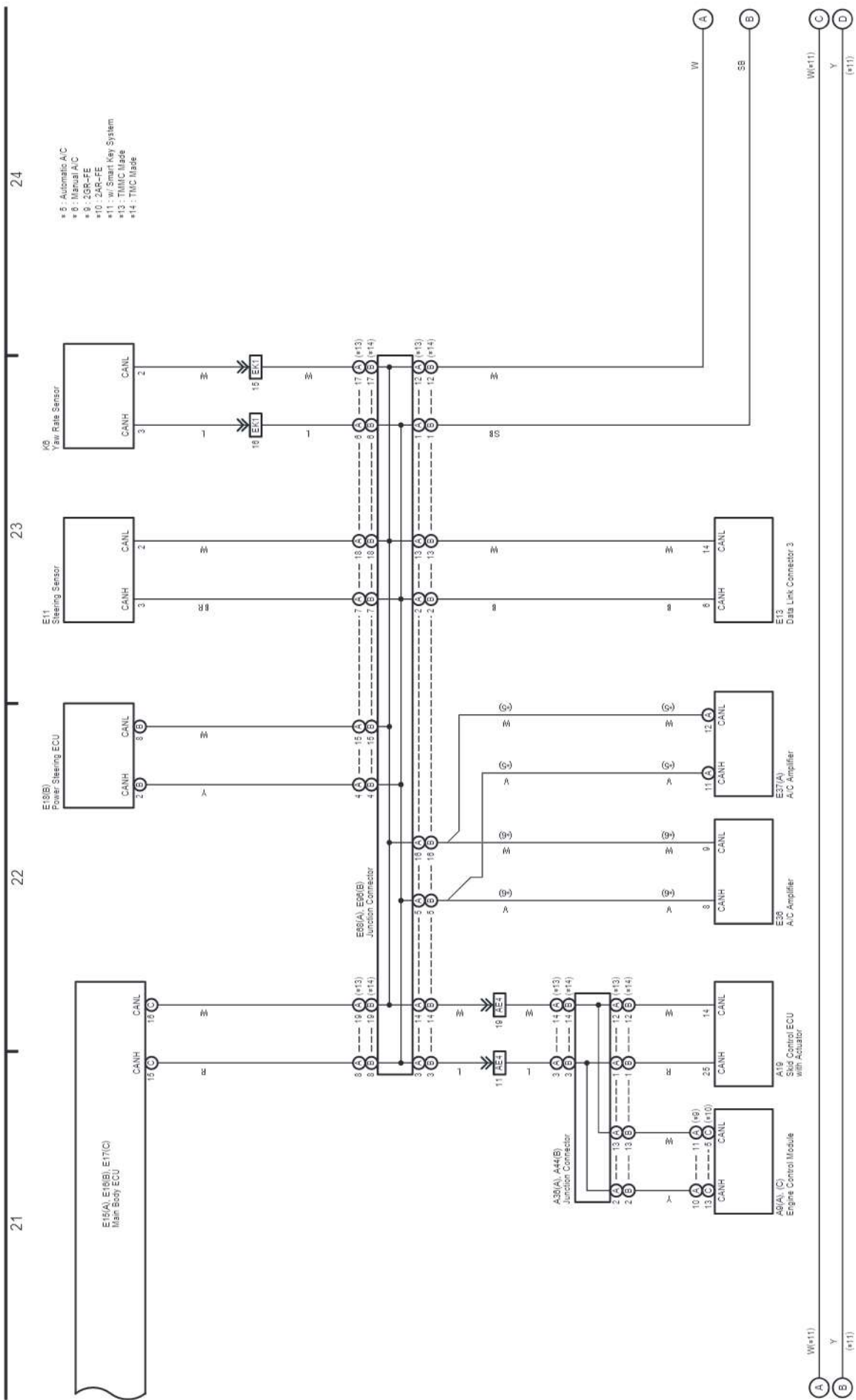
*11 - w/ Smart Key System
 *12 - w/o Smart Key System



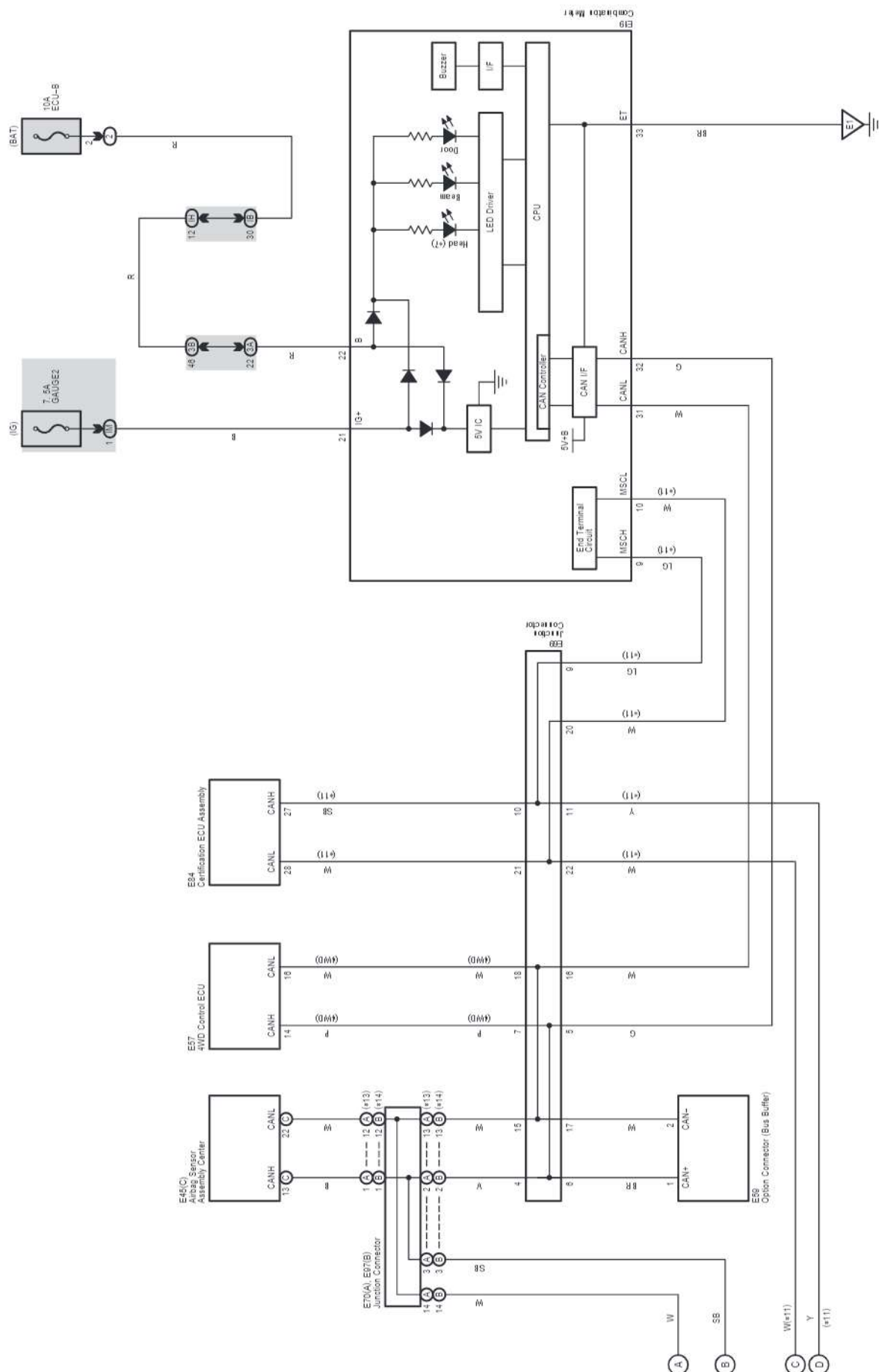
2 RAV4 (Cont' d)



Multiplex Communication System (CAN)



2 RAV4 (Cont' d)



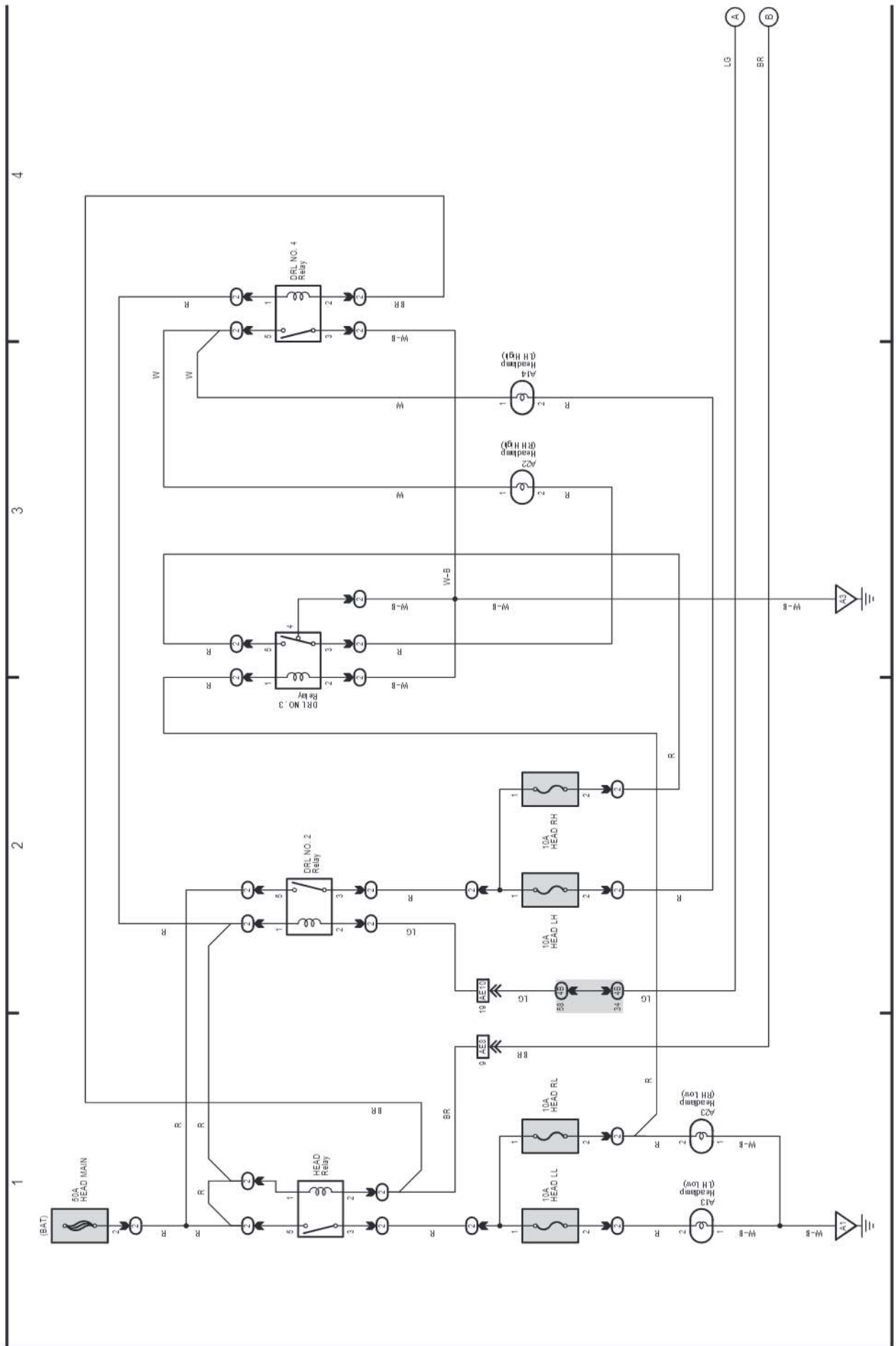
RAV4 (EM16B0U)

M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

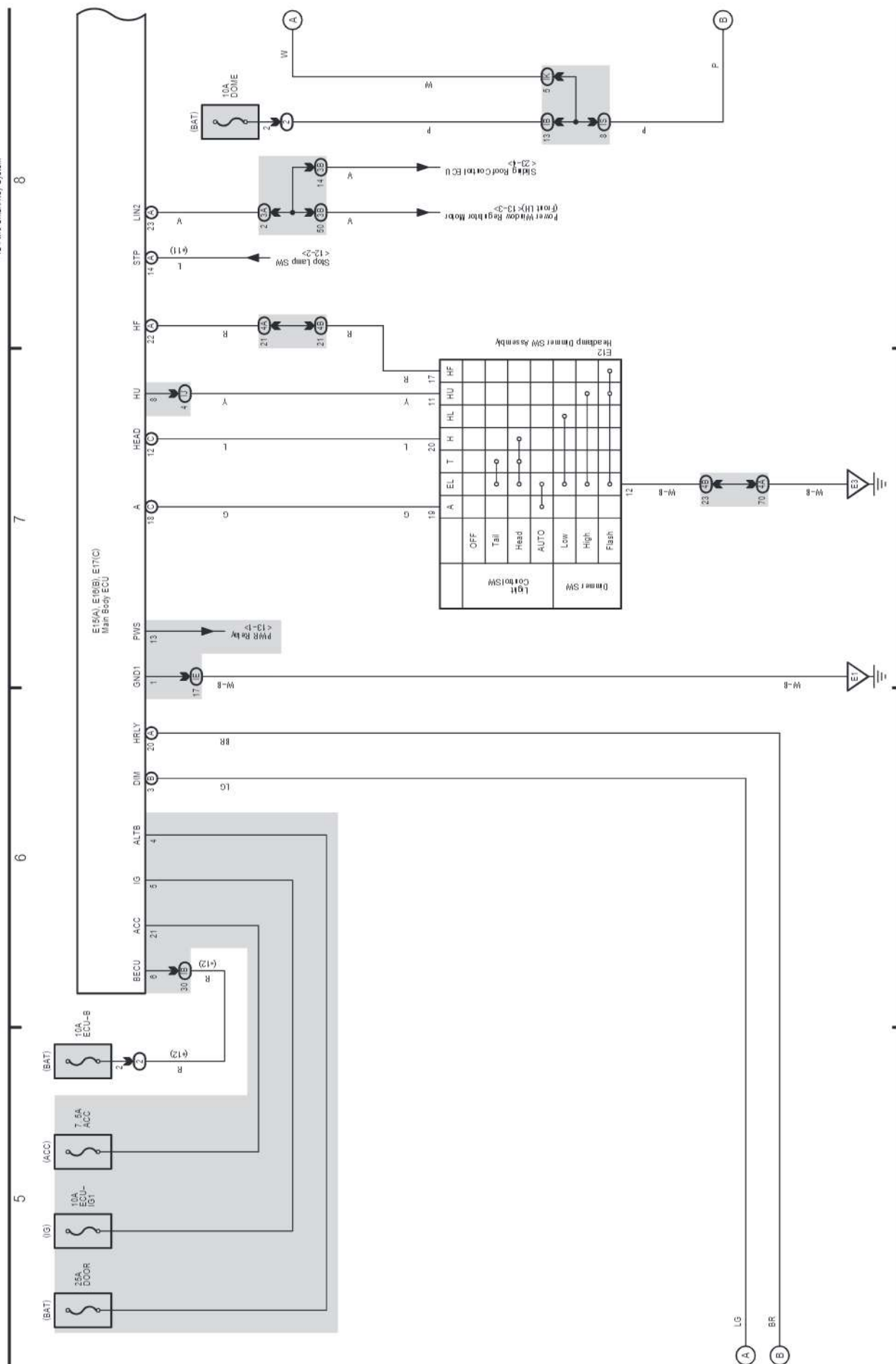
2 RAV4

Multiplex Communication System (CAN)



RAV4 (EM16B0U)

#11 : w/ Smart Key System
#12 : w/o Smart Key System



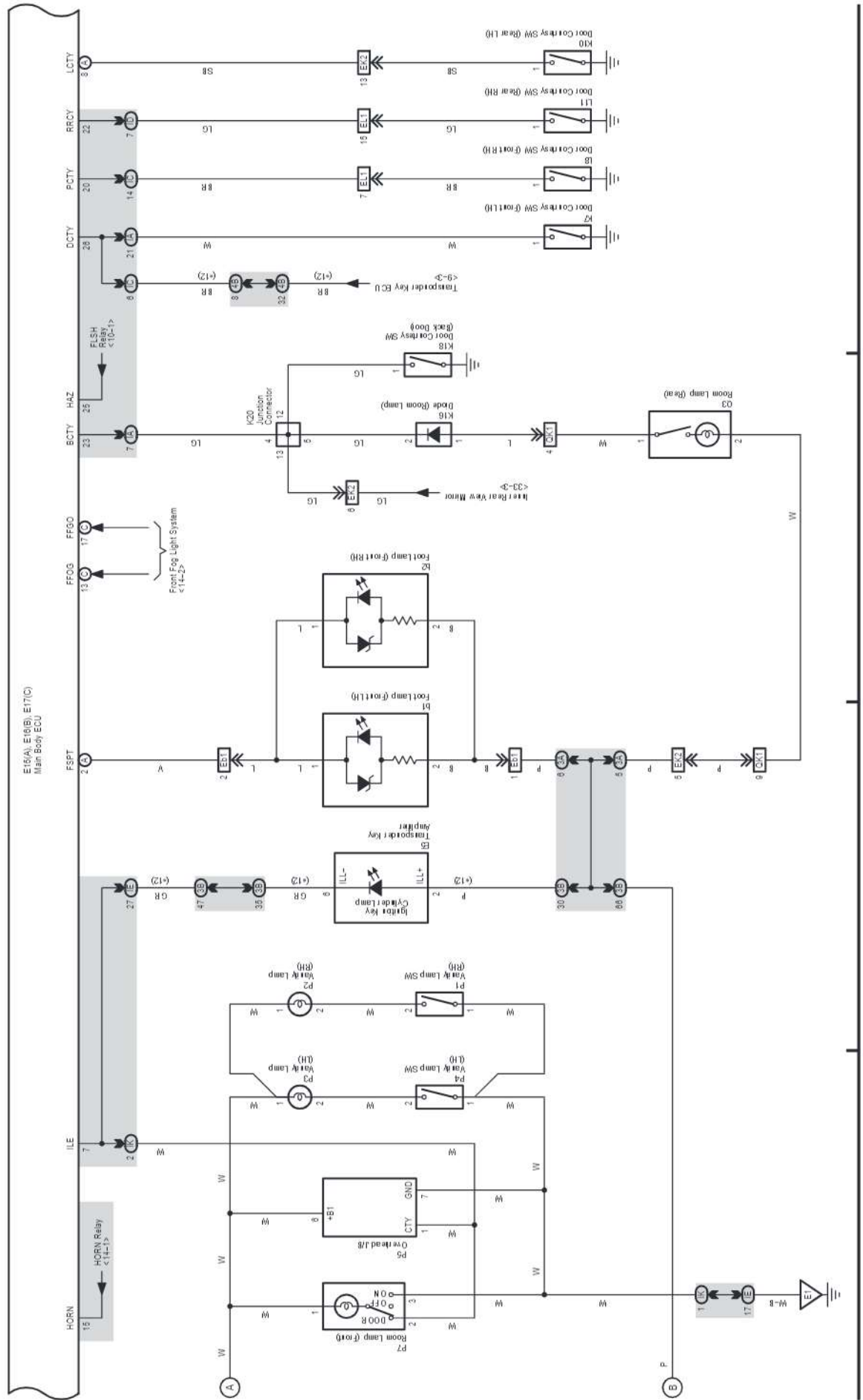
M OVERALL ELECTRICAL WIRING DIAGRAM

2 RAV4 (Cont' d)

(Cont. next page)

Multiplex Communication System (CAN)

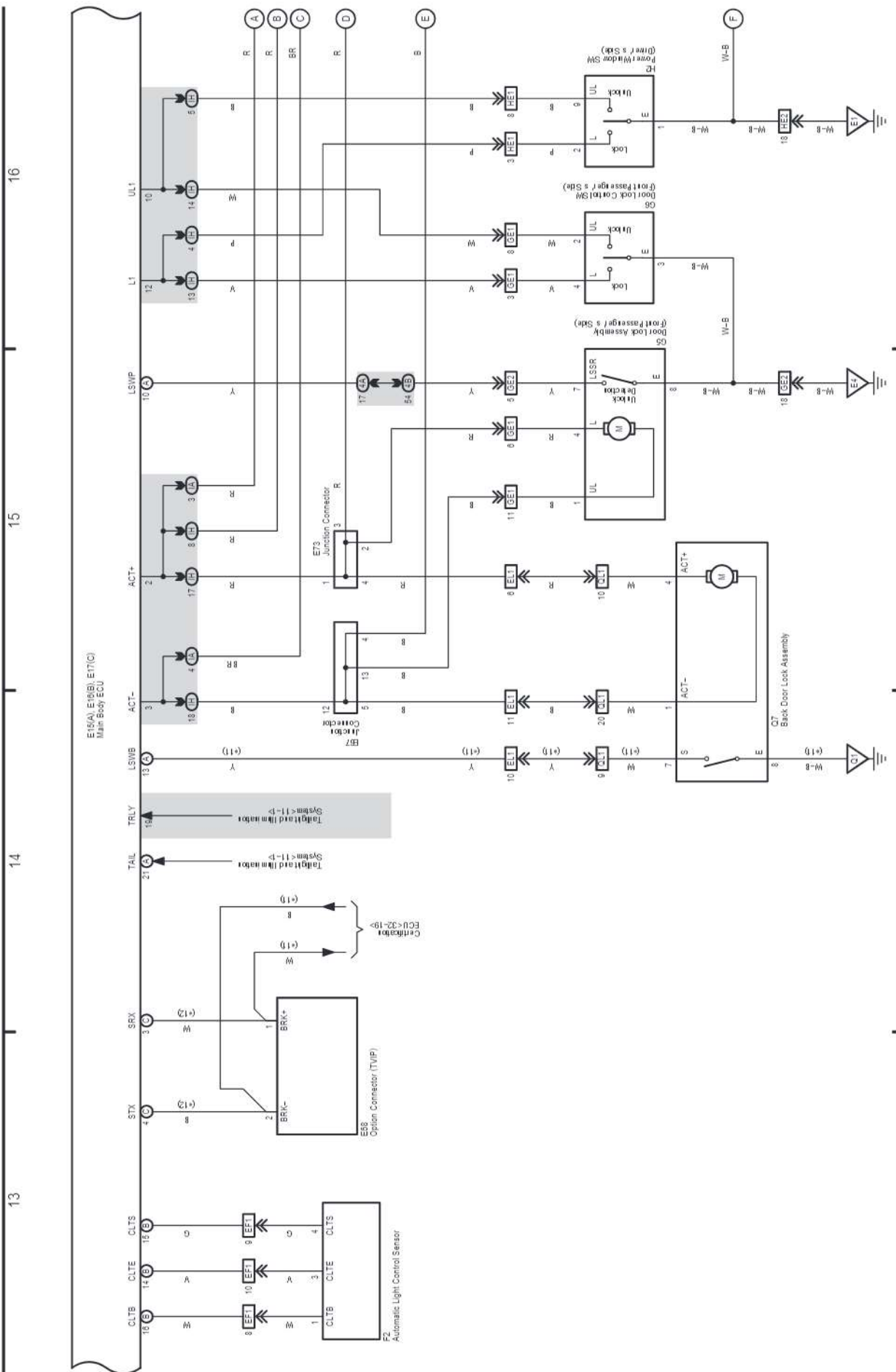
*12 : w/o Smart Key System



RAV4 (EM16B0U)

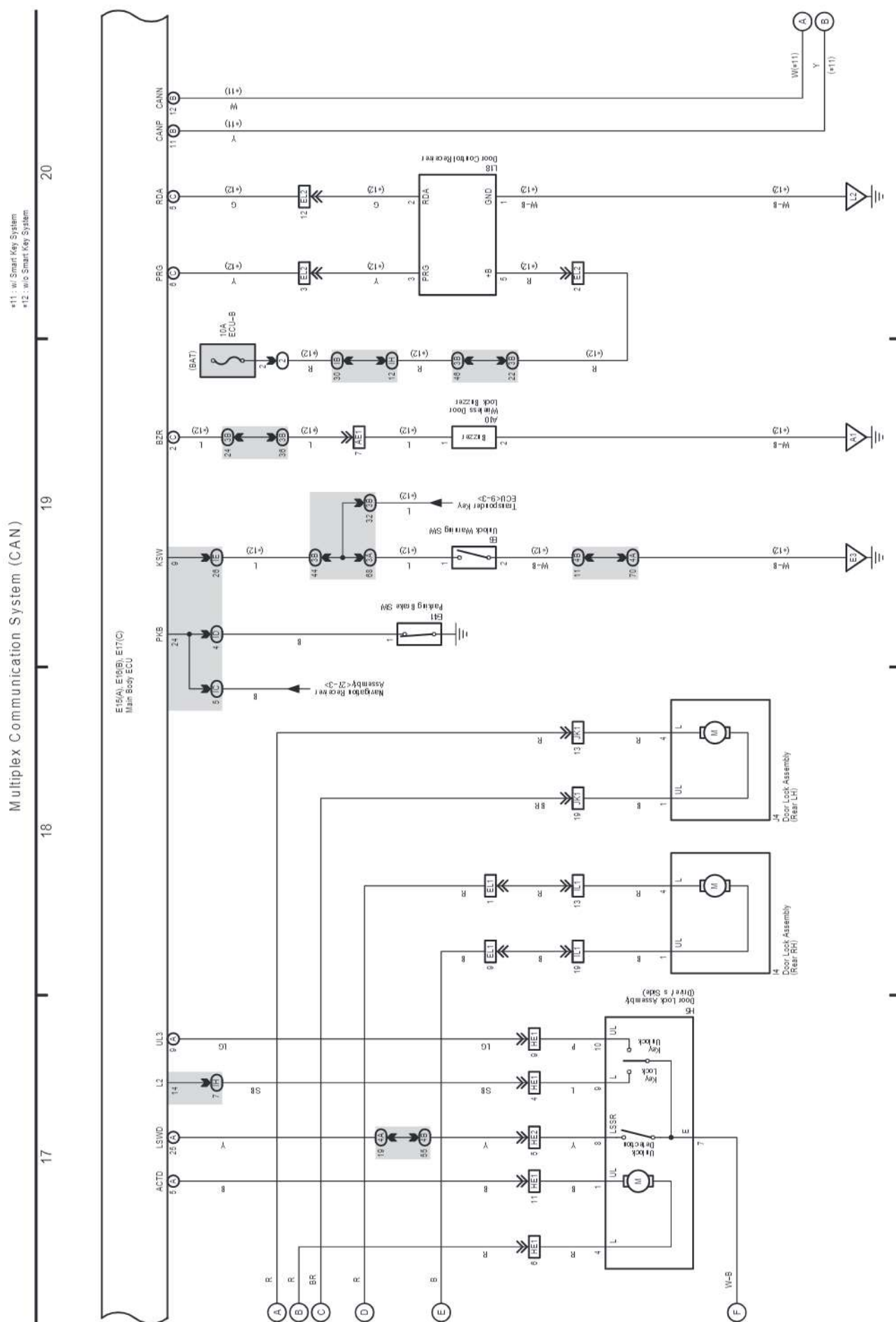
Multiplex Communication System (CAN)

*11 - w/ Smart Key System
 *12 - w/o Smart Key System

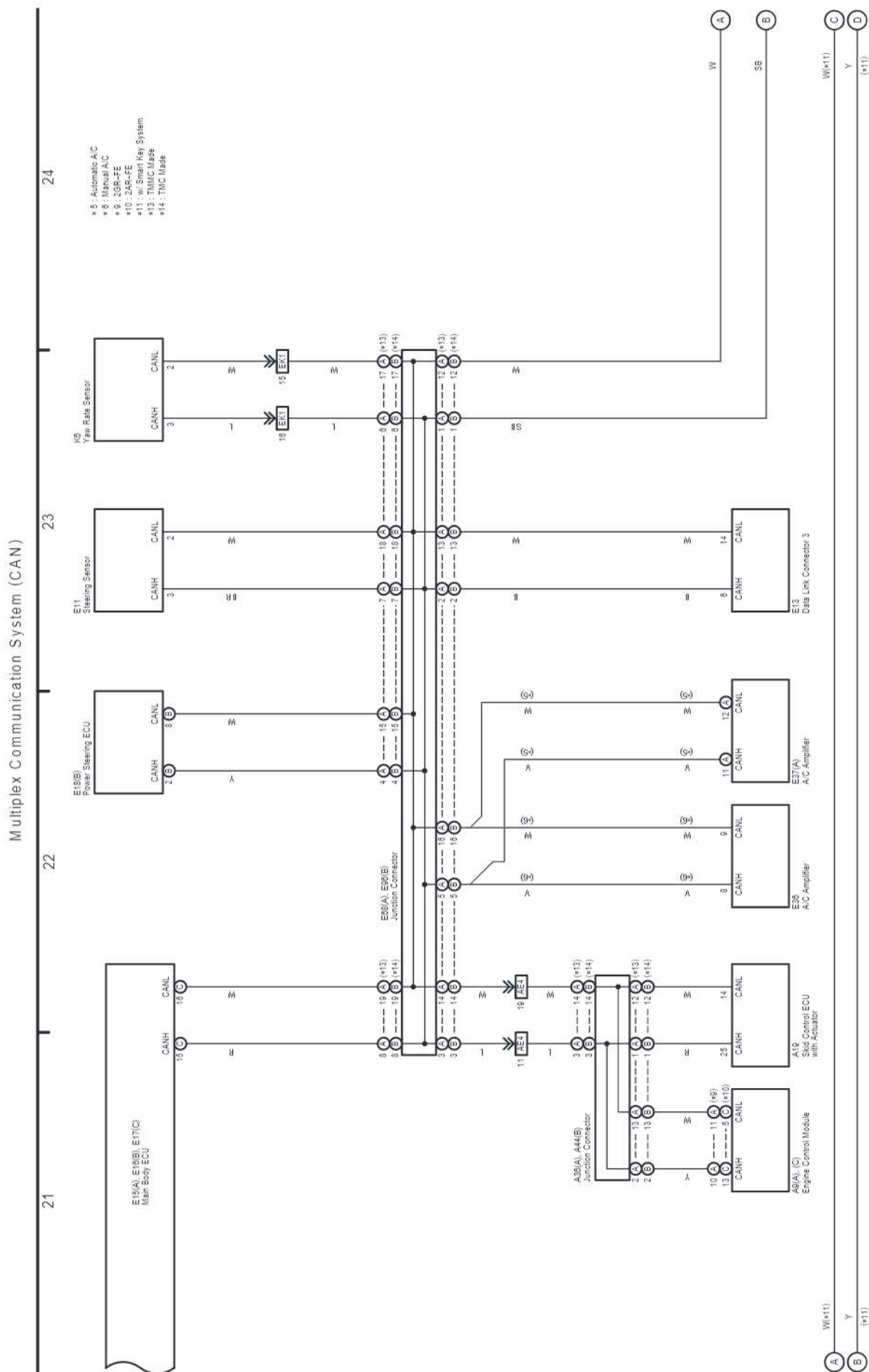


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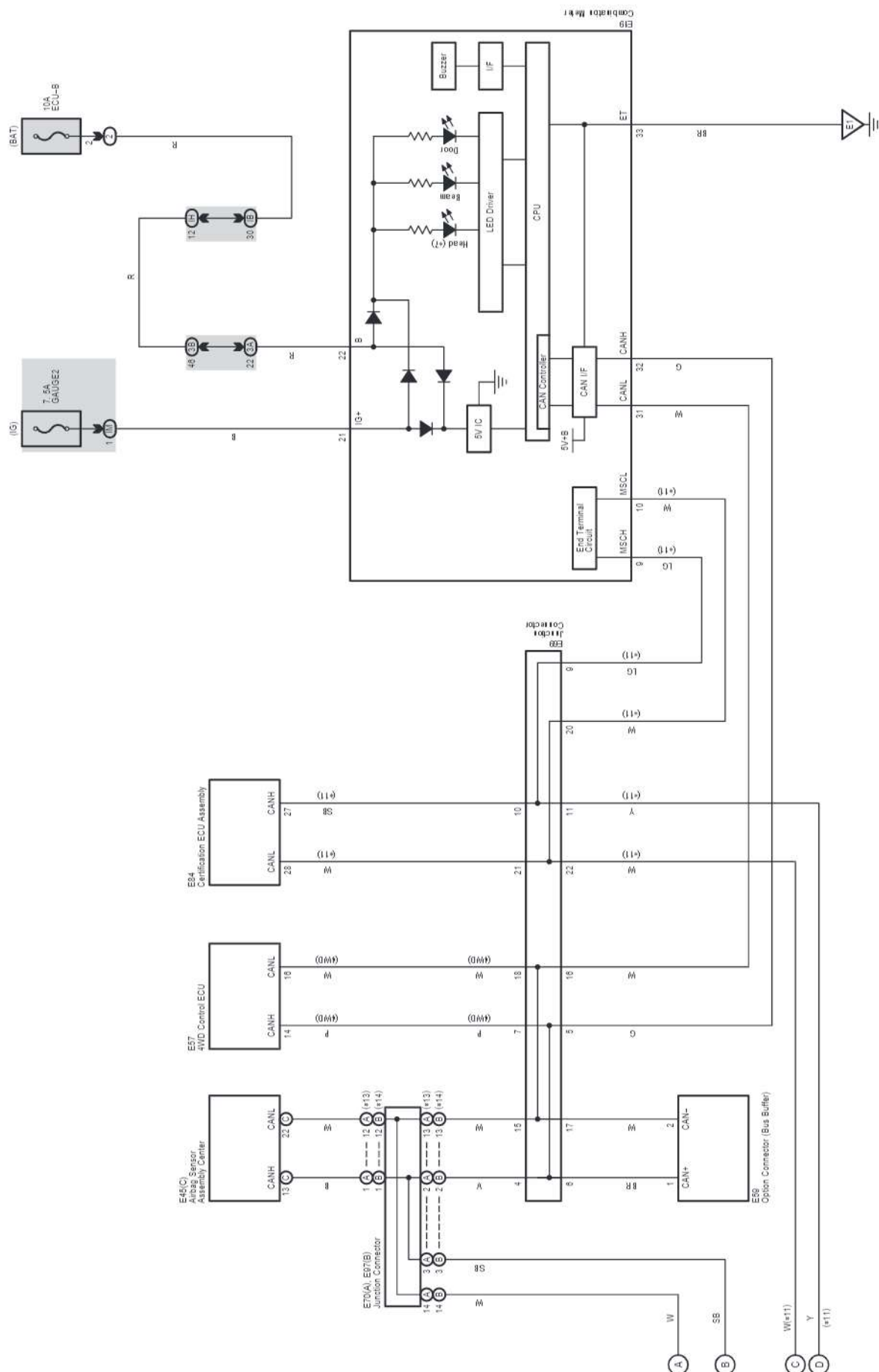
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RAV4 (EM16B0U)



2 RAV4 (Cont' d)



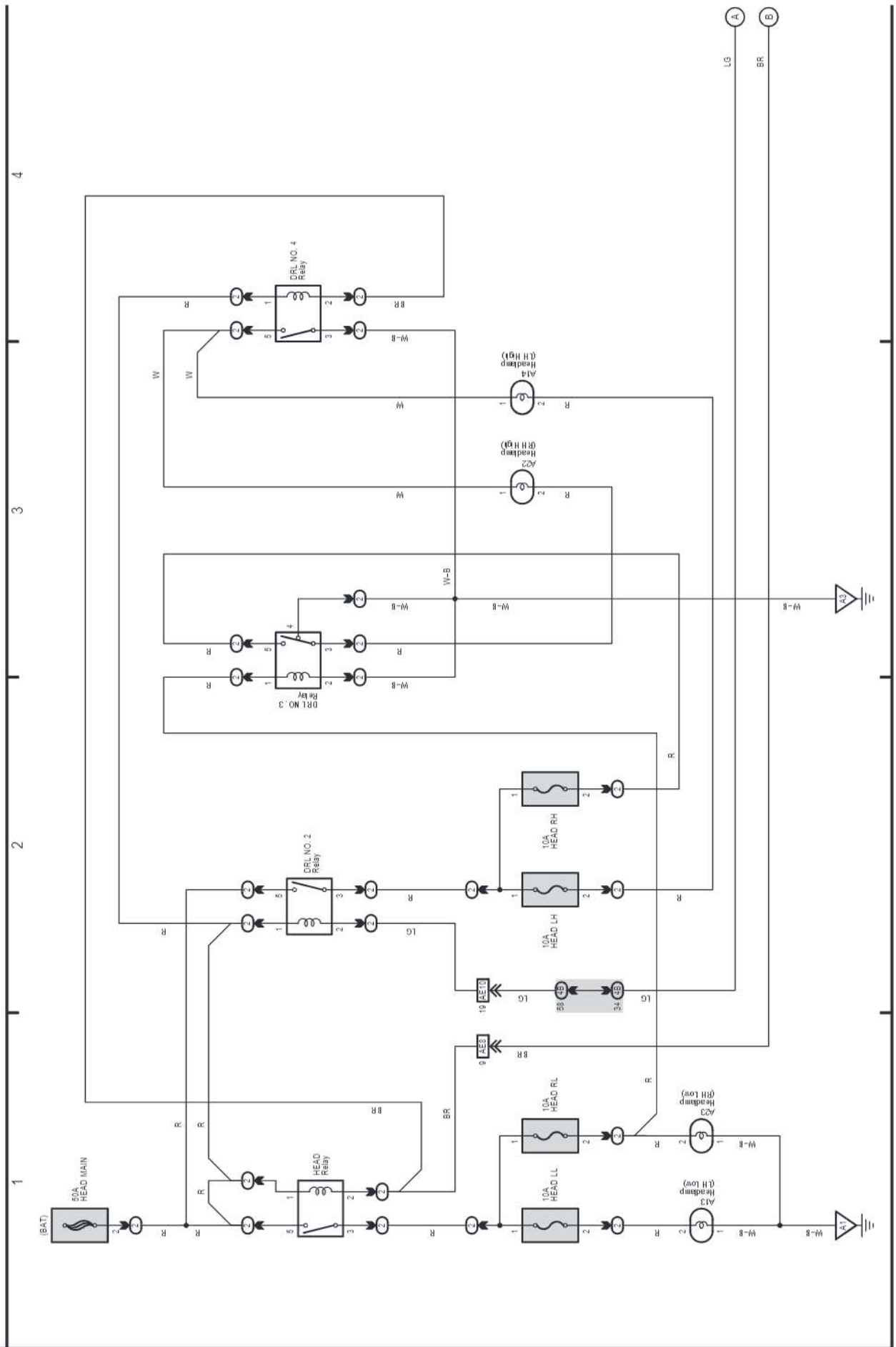
RAV4 (EM16B0U)

M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

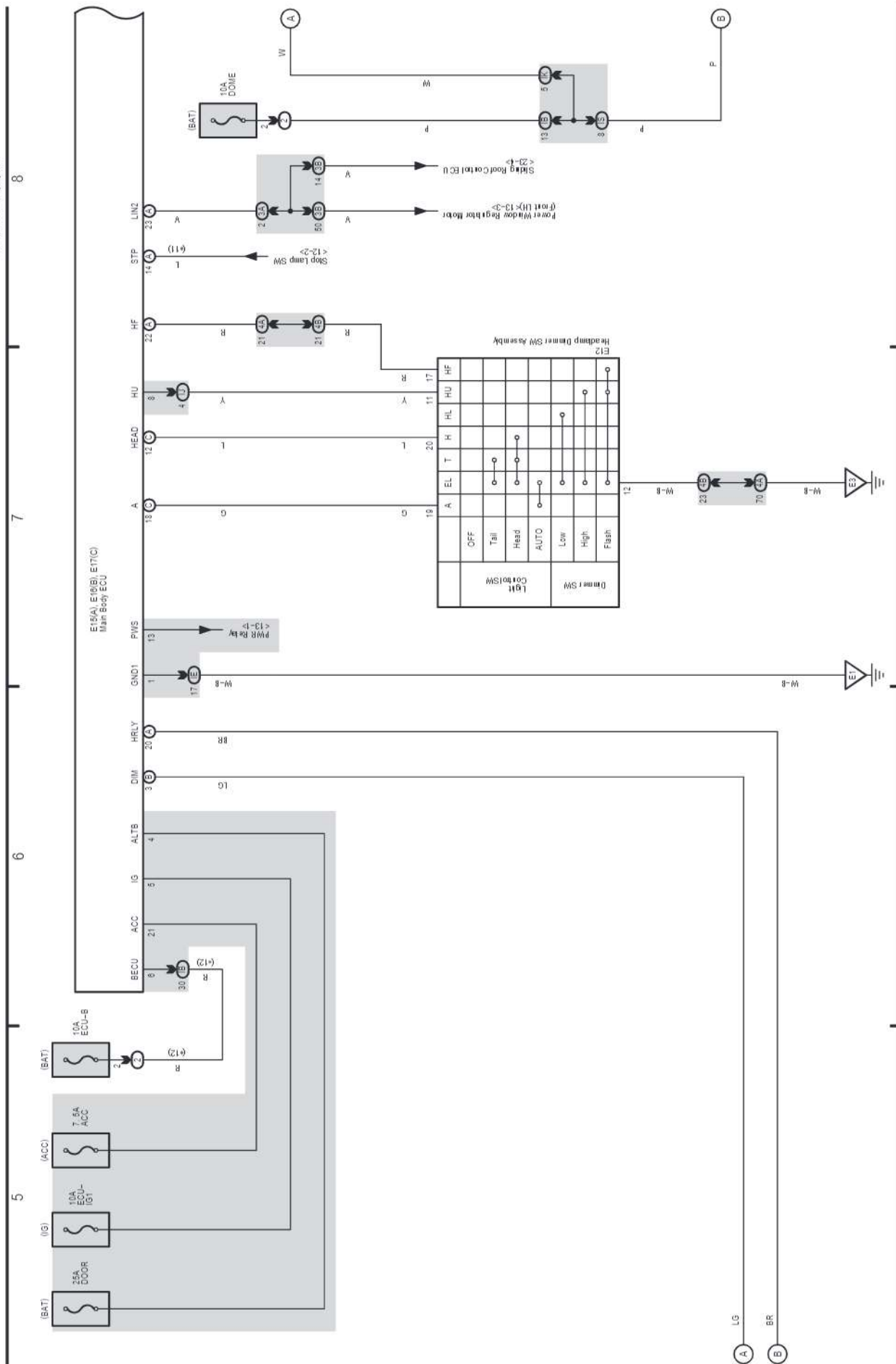
2 RAV4

Multiplex Communication System (CAN)



RAV4 (EM16B0U)

#11 : w/ Smart Key System
#12 : w/o Smart Key System



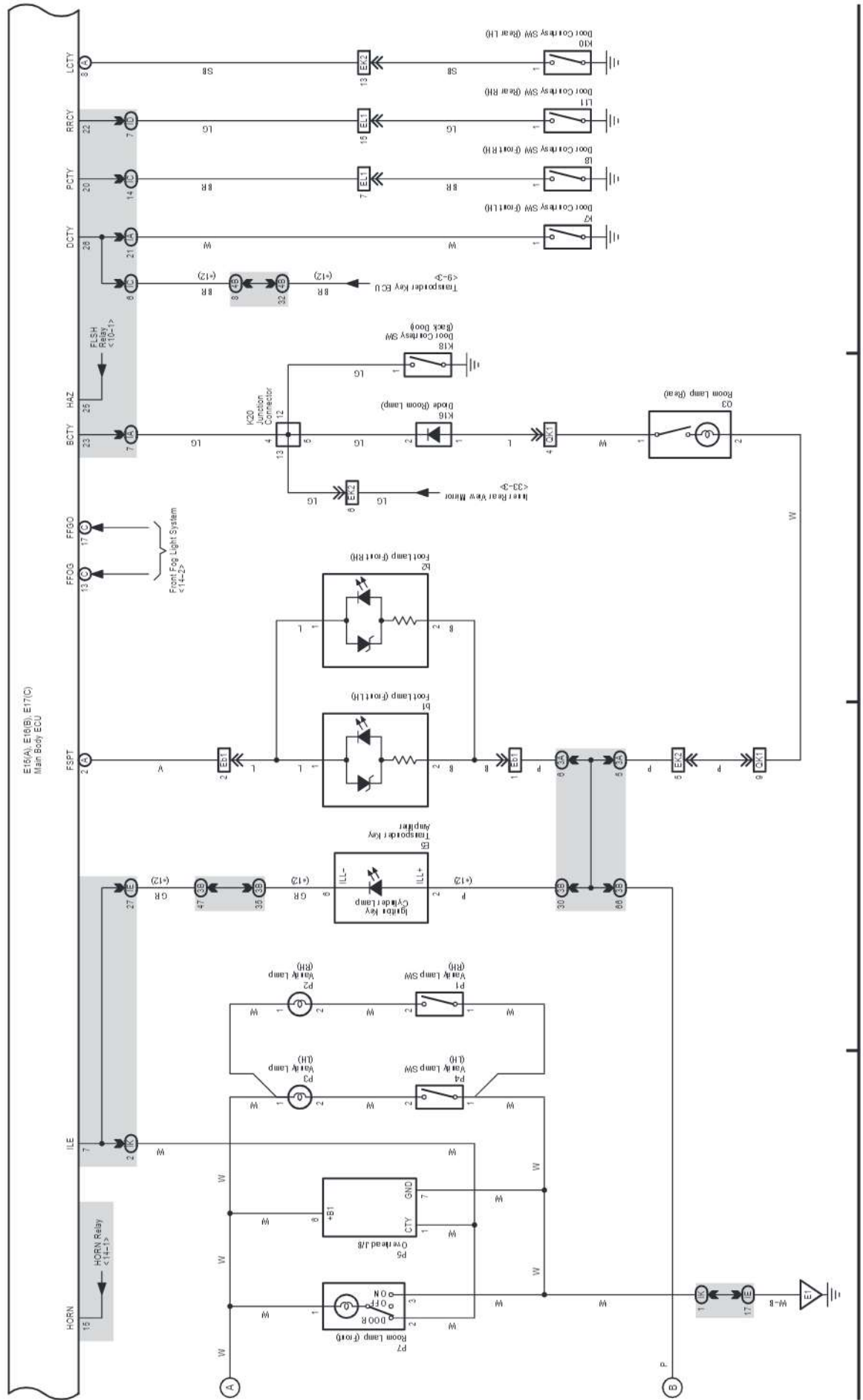
M OVERALL ELECTRICAL WIRING DIAGRAM

2 RAV4 (Cont' d)

(Cont. next page)

Multiplex Communication System (CAN)

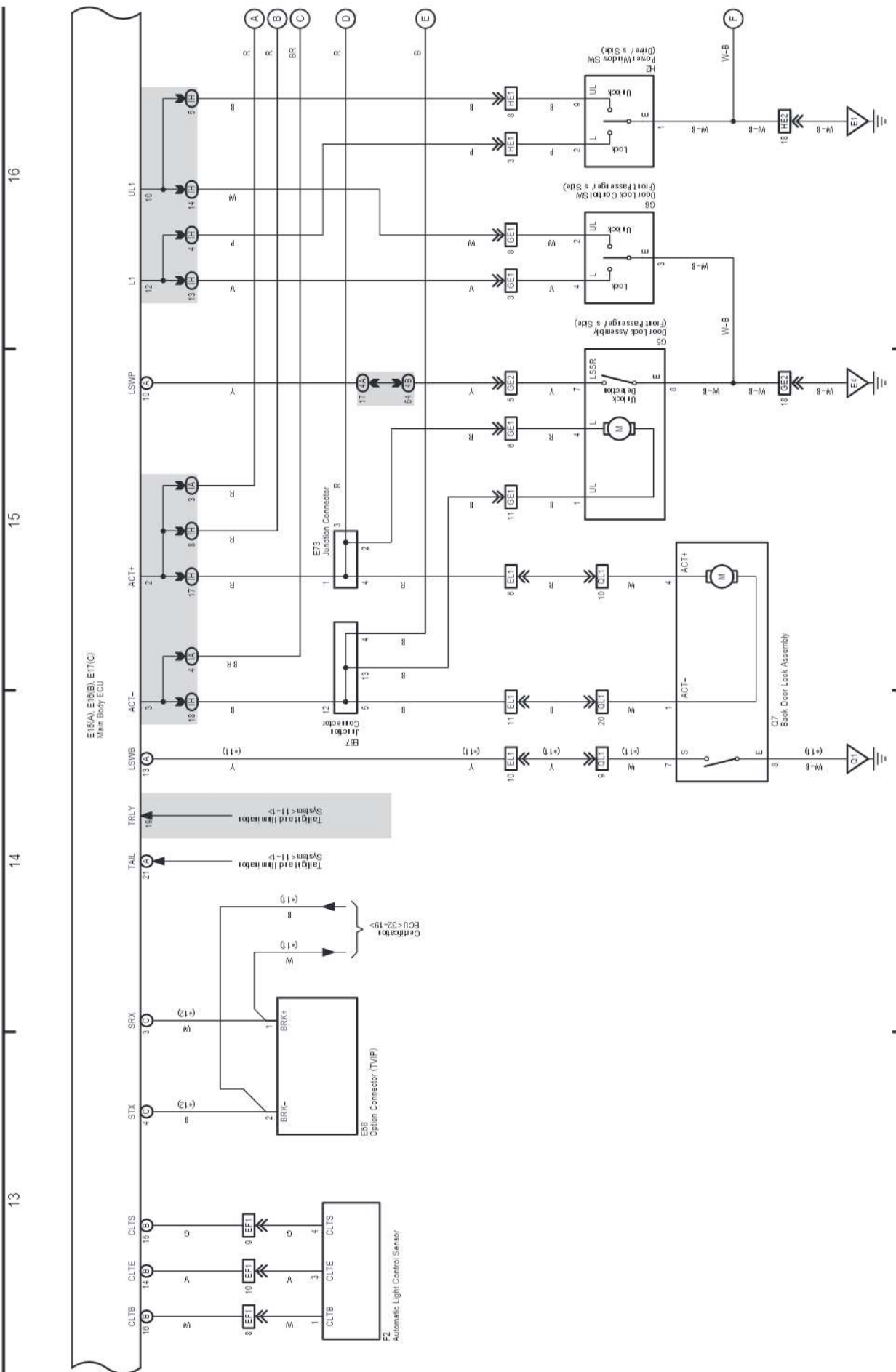
*12 : no Smart Key System



RAV4 (EM16B0U)

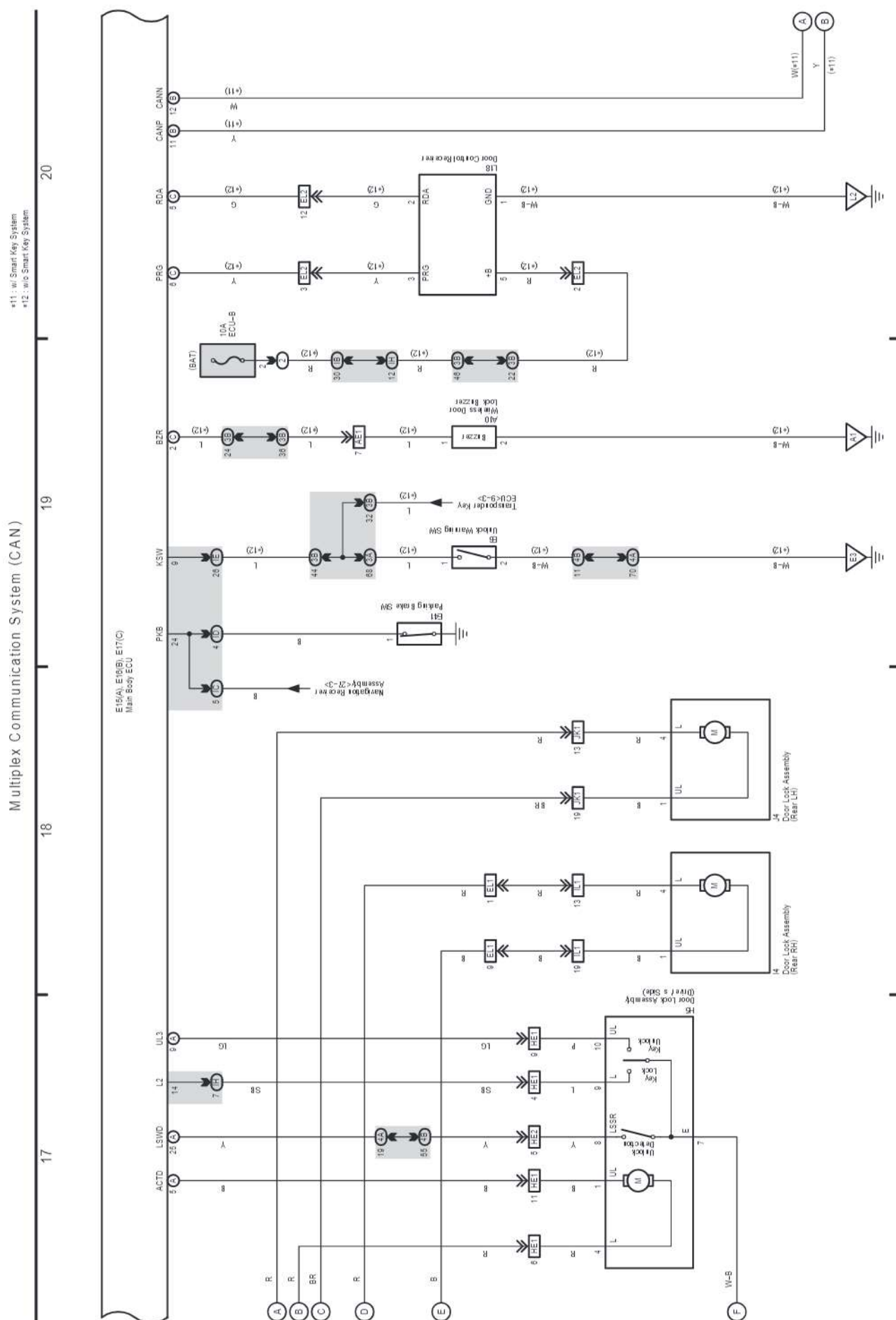
Multiplex Communication System (CAN)

*11 - w/ Smart Key System
 *12 - w/o Smart Key System

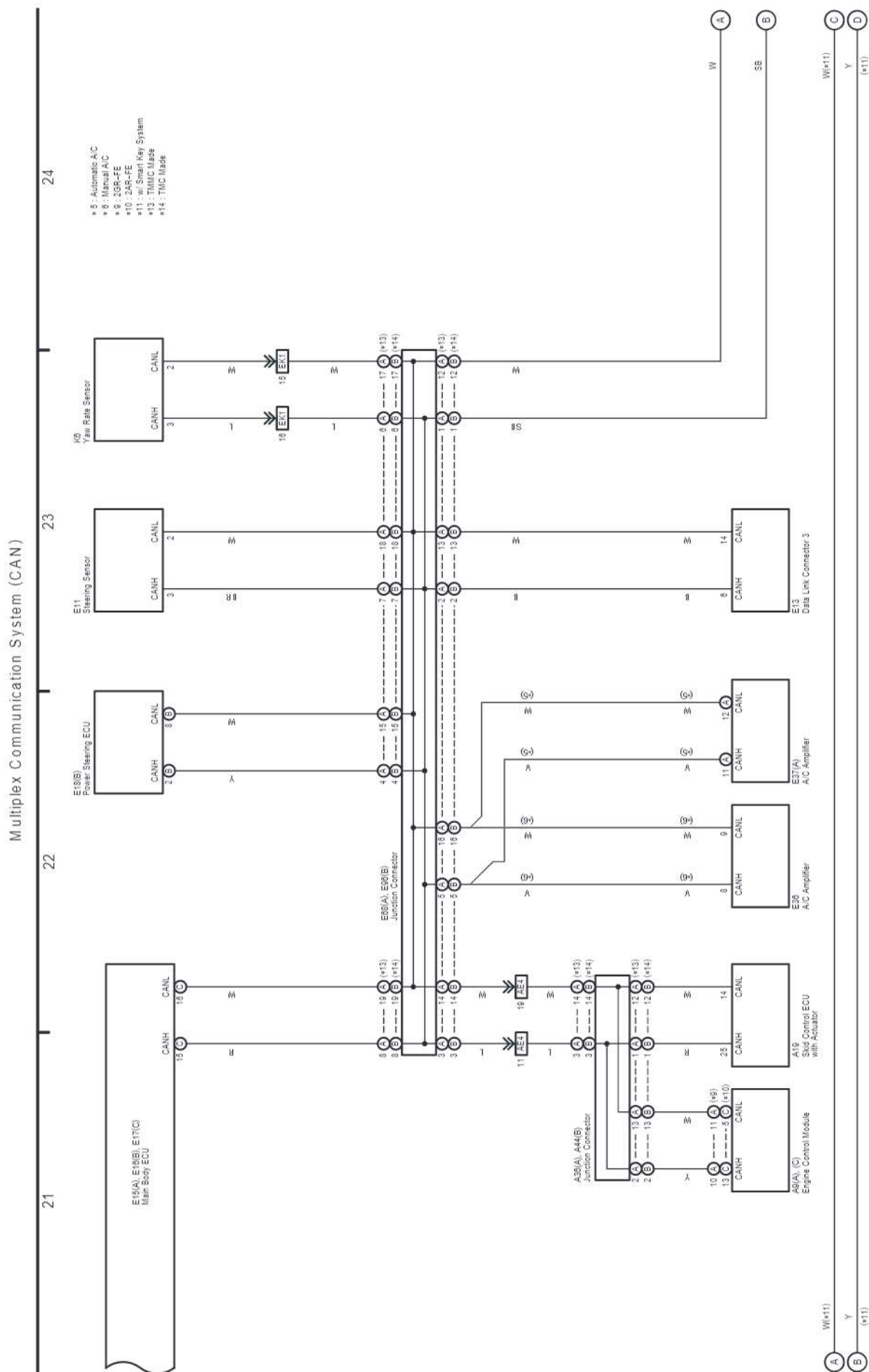


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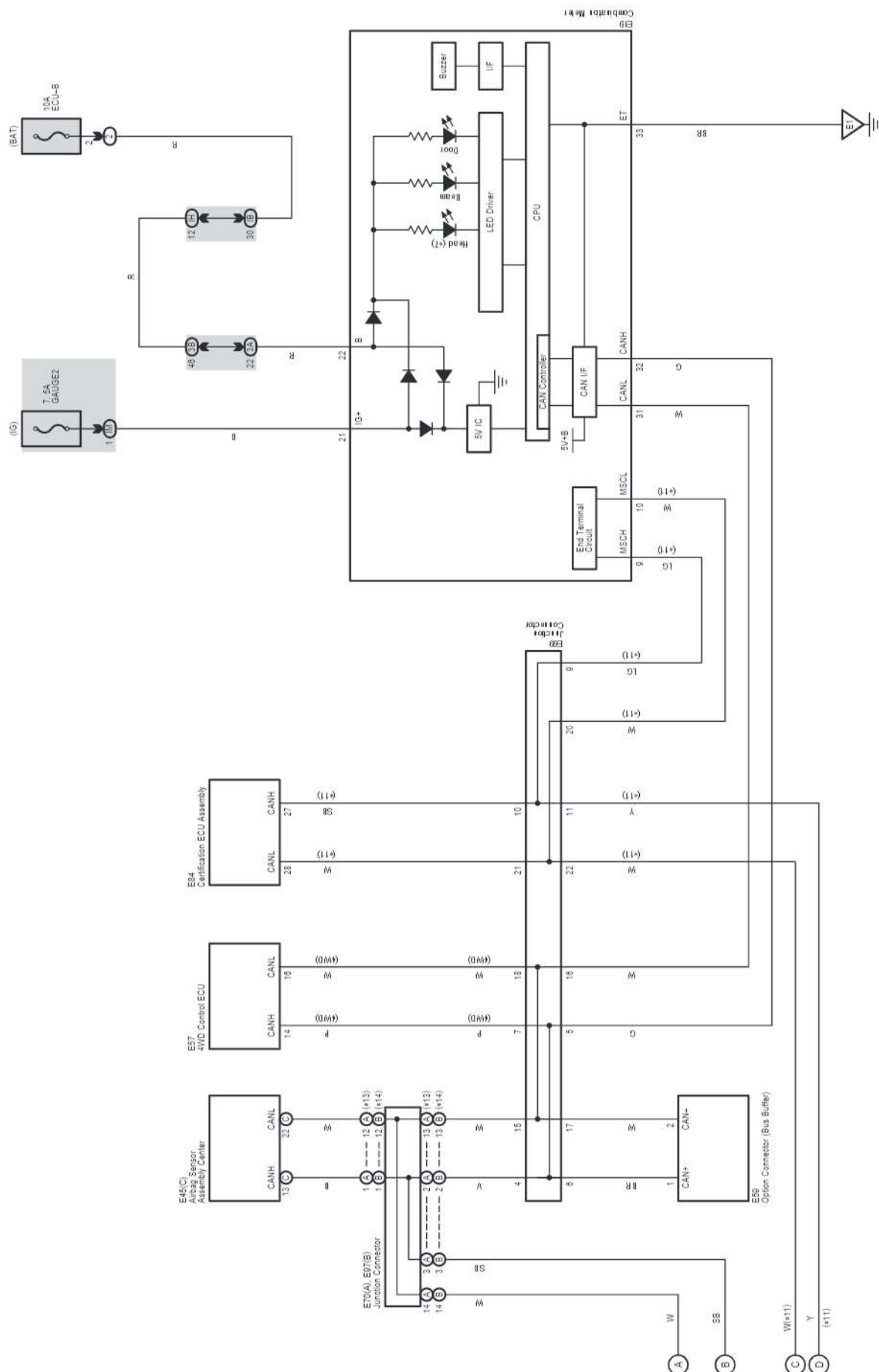
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RAV4 (EM16B0U)



2 RAV4 (Cont' d)



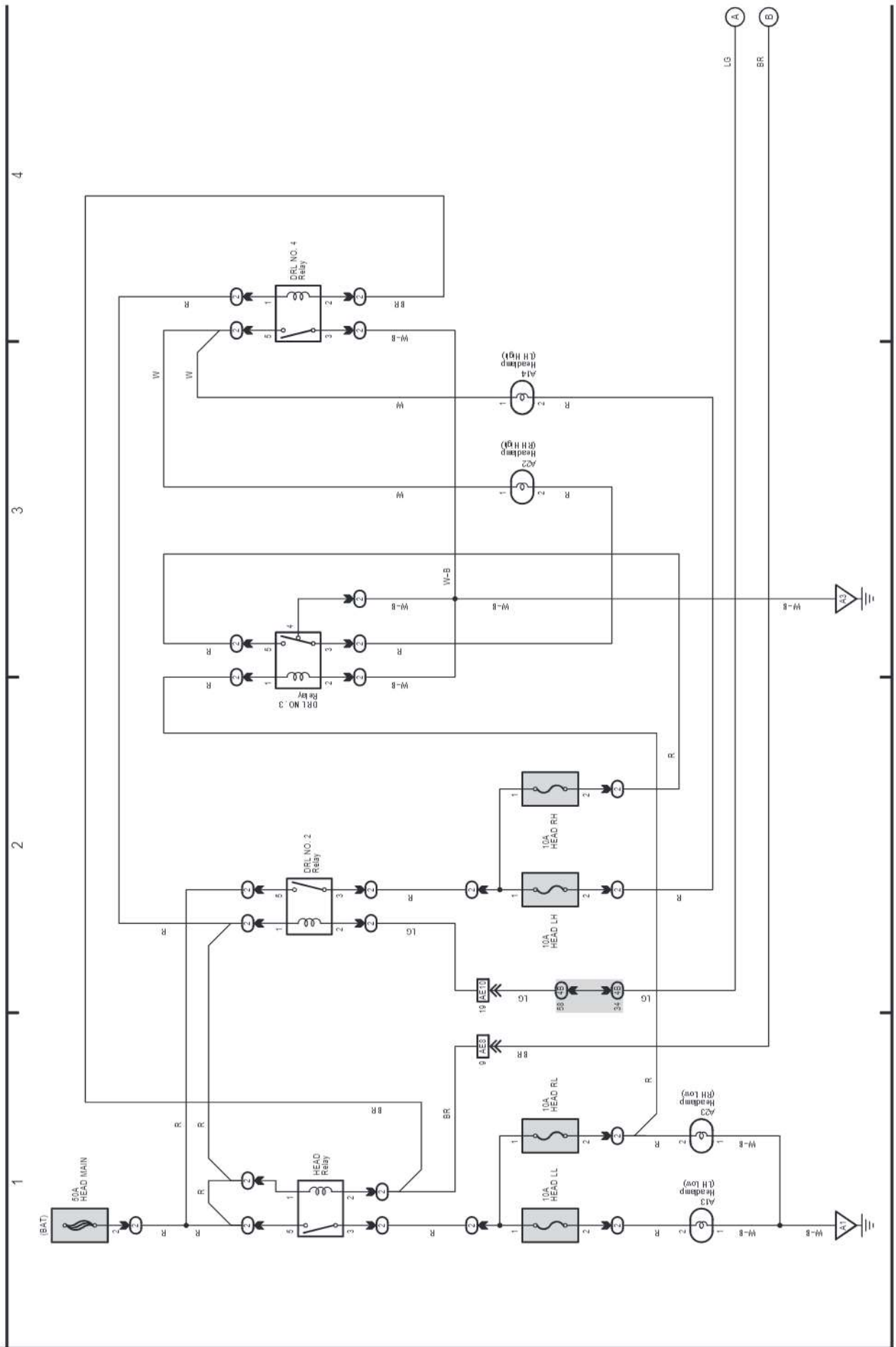
RAV4 (EM16B0U)

M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

2 RAV4

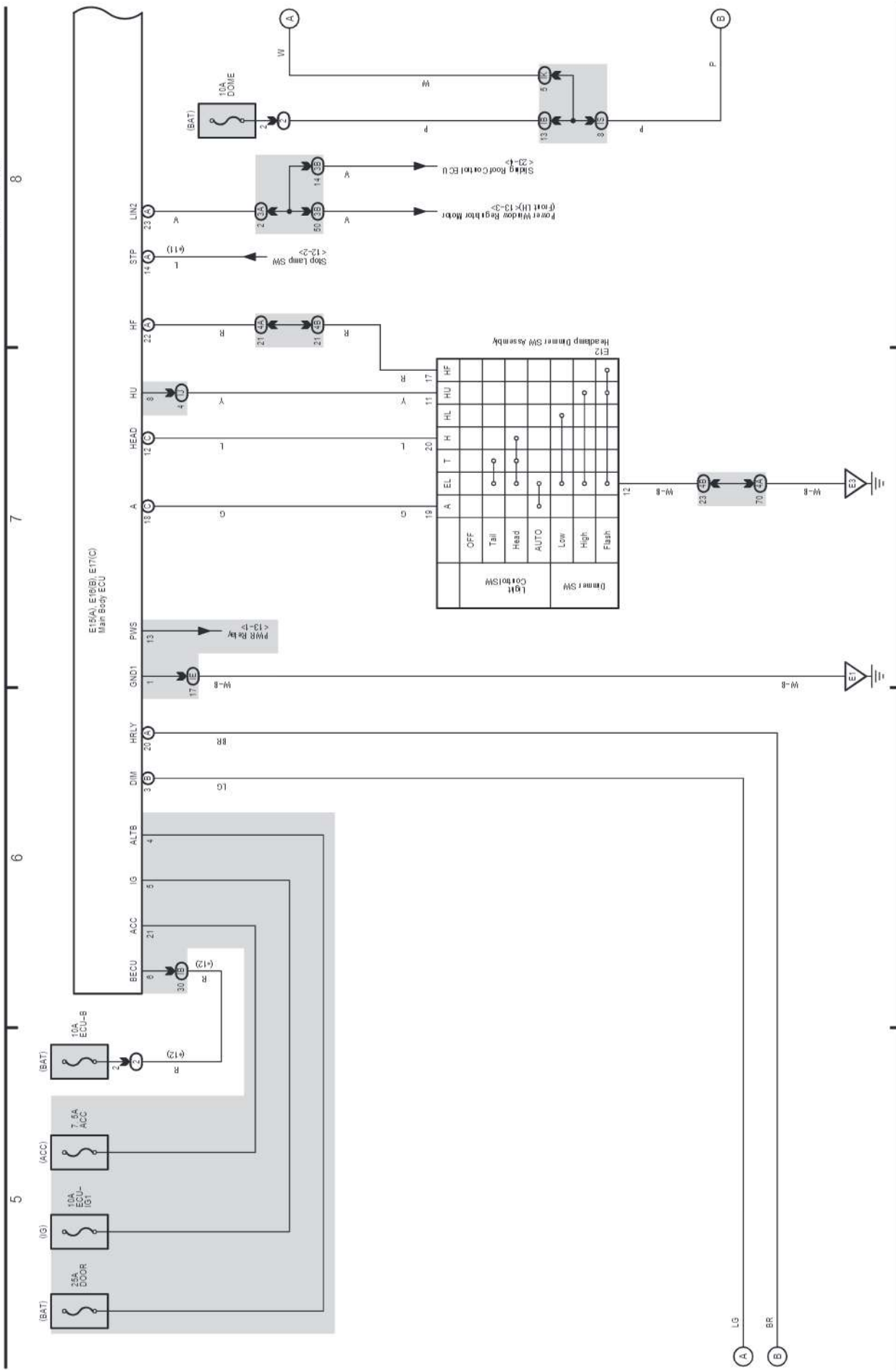
Multiplex Communication System (CAN)



RAV4 (EM16B0U)

Multiplex Communication System (CAN)

*11- w/ Smart Key System
*12- w/o Smart Key System



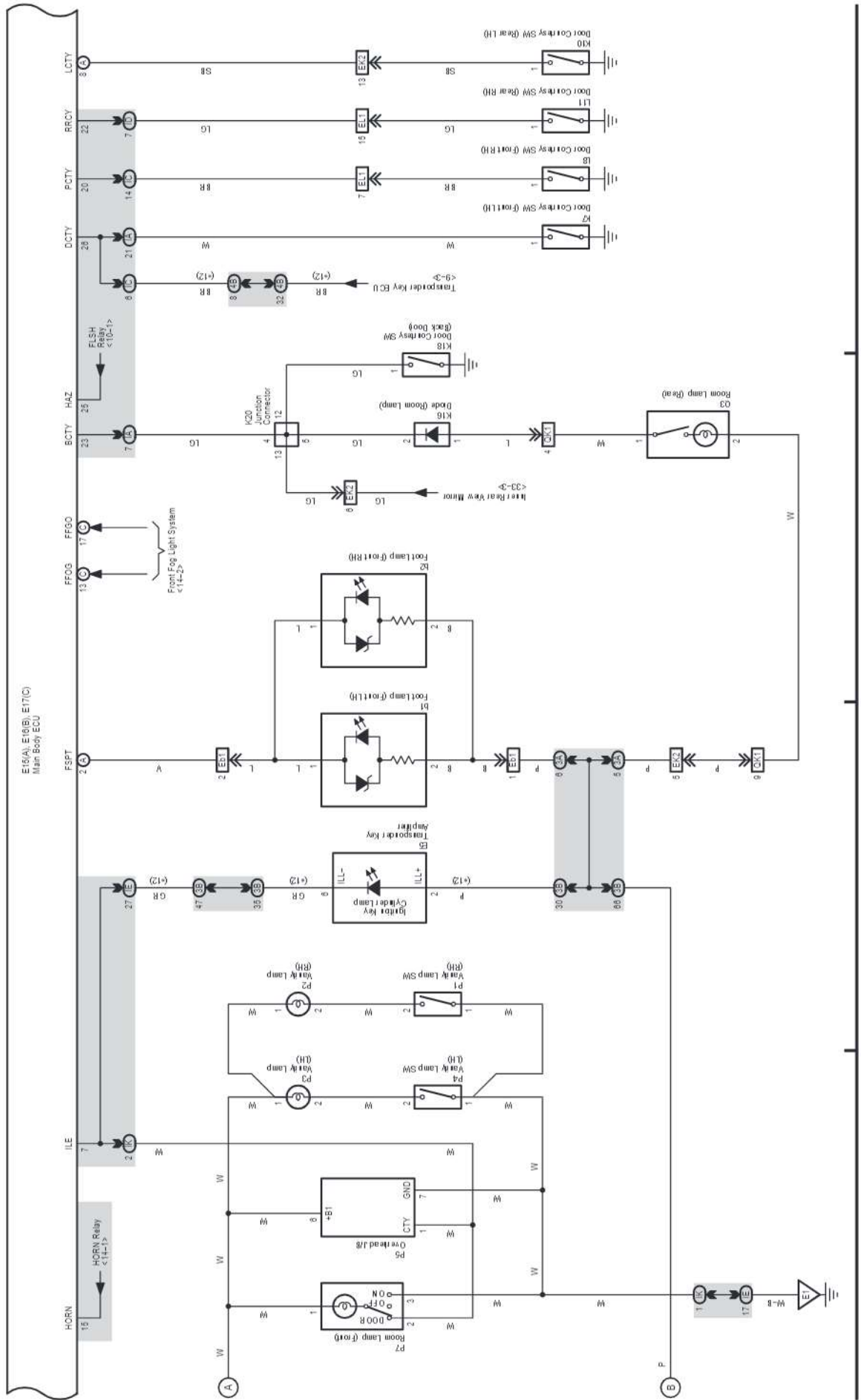
M OVERALL ELECTRICAL WIRING DIAGRAM

2 RAV4 (Cont' d)

(Cont. next page)

Multiplex Communication System (CAN)

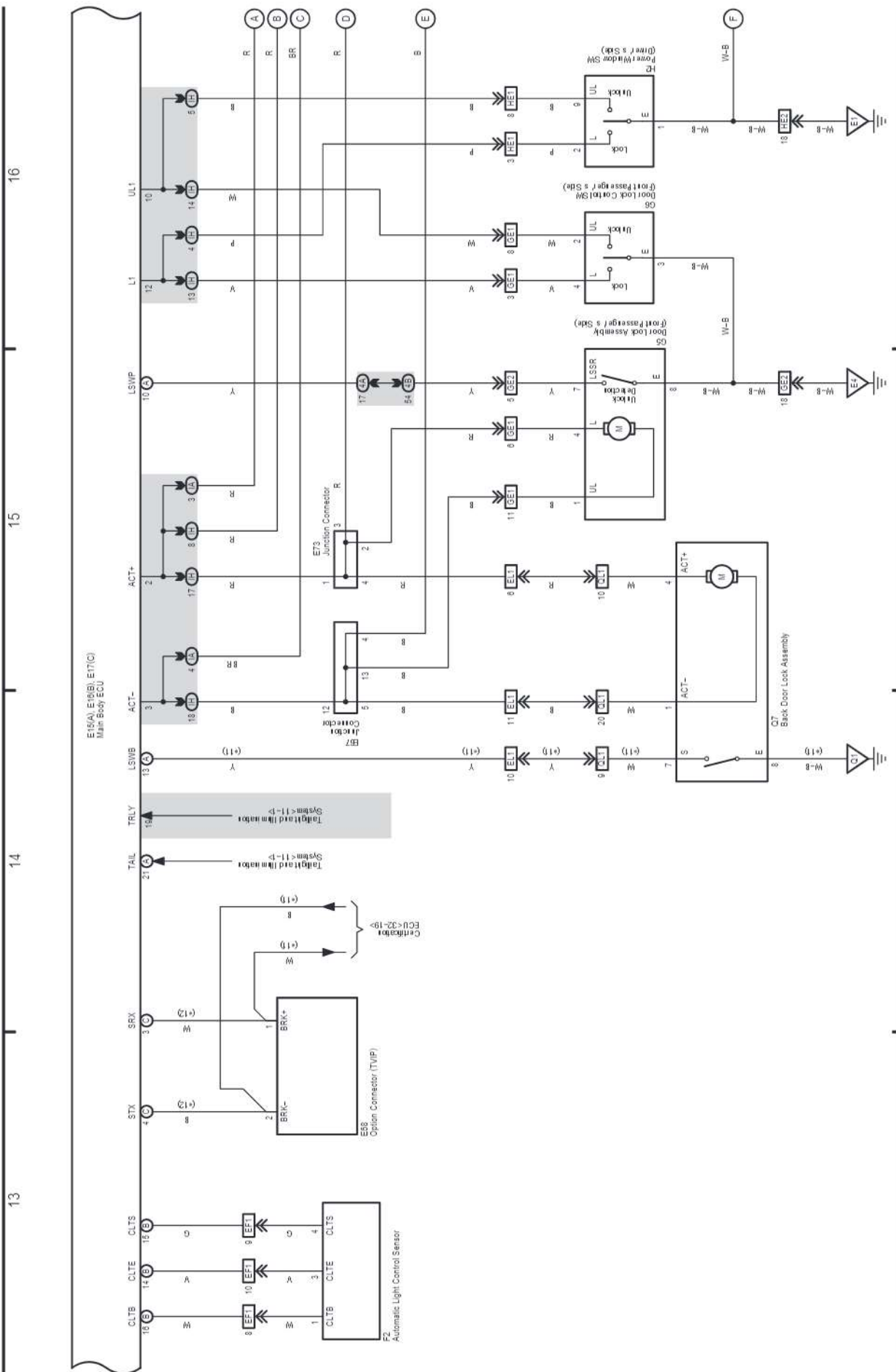
*12 : no Smart Key System



RAV4 (EM16B0U)

Multiplex Communication System (CAN)

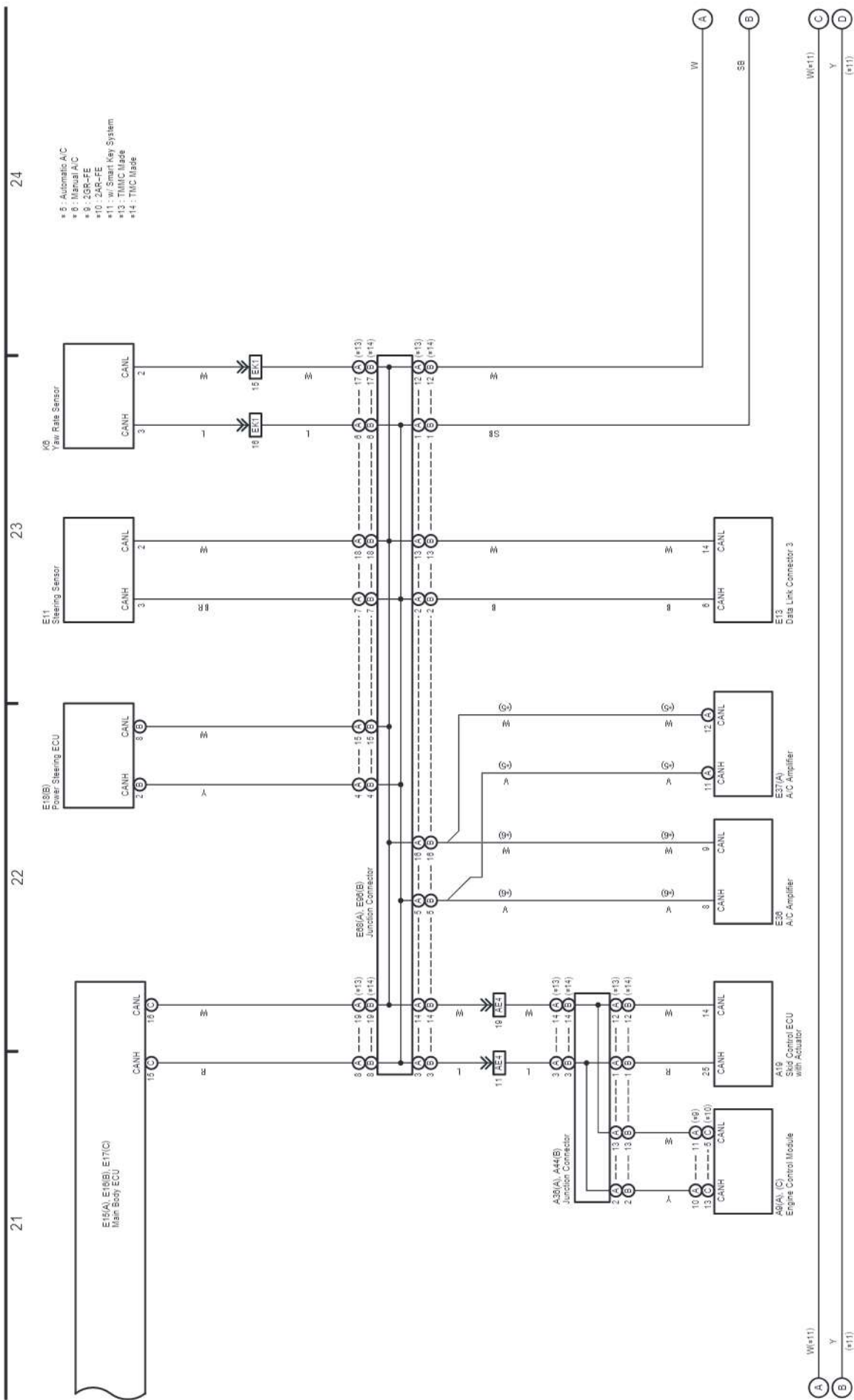
*11 - w/ Smart Key System
 *12 - w/o Smart Key System



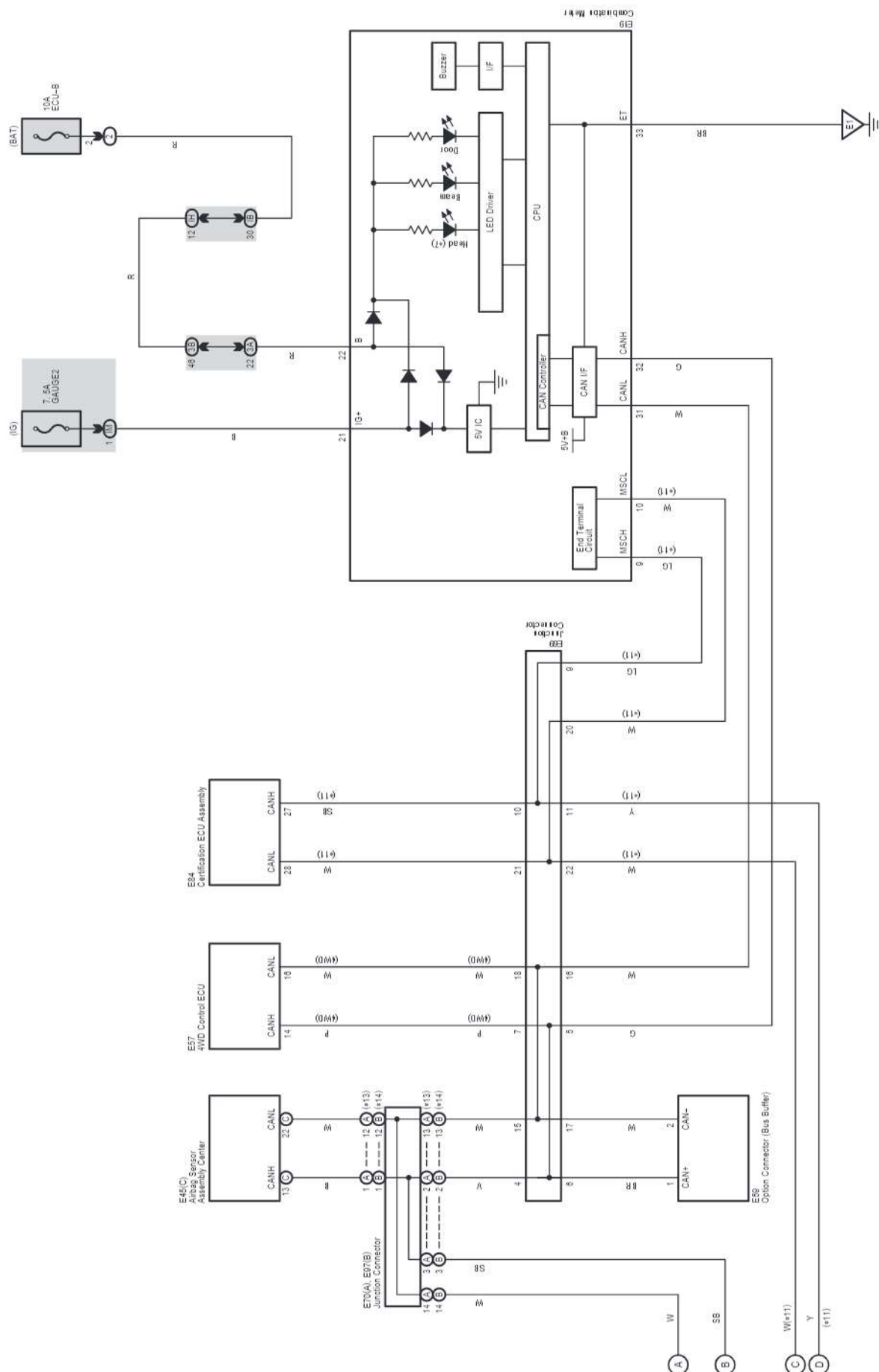
2 RAV4 (Cont' d)



Multiplex Communication System (CAN)



2 RAV4 (Cont' d)



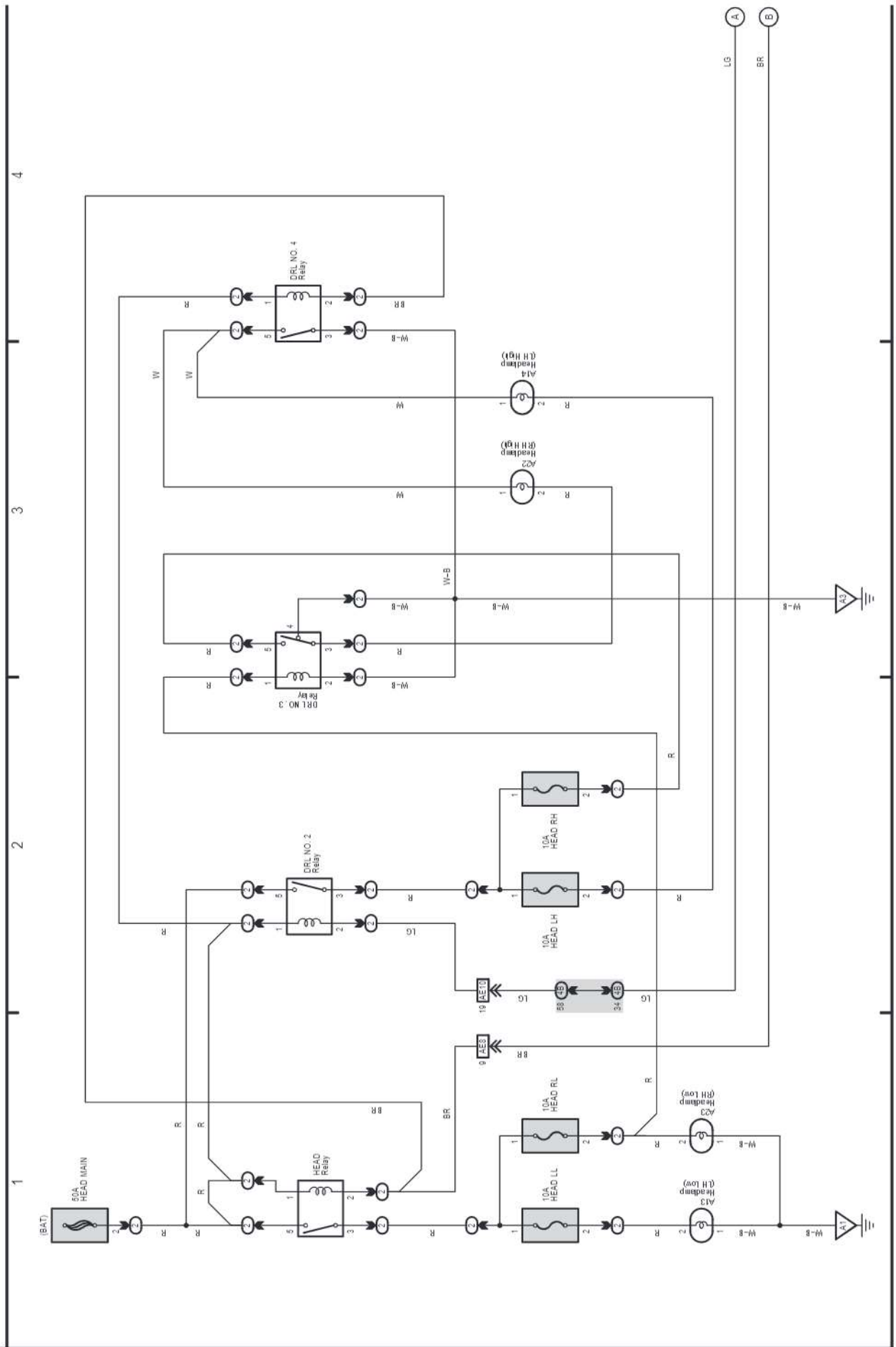
RAV4 (EM16B0U)

M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

2 RAV4

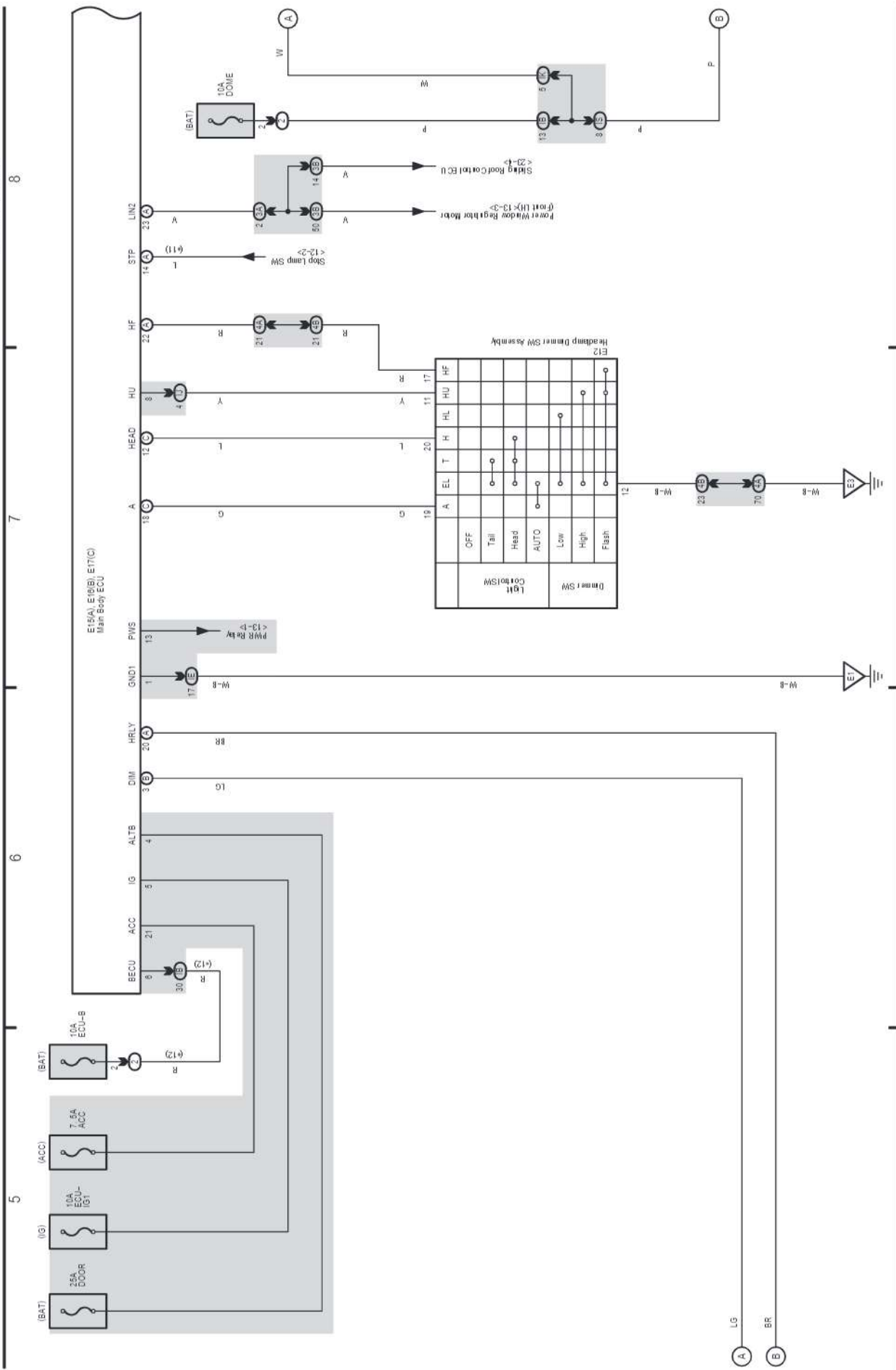
Multiplex Communication System (CAN)



RAV4 (EM16B0U)

Multiplex Communication System (CAN)

*11- w/ Smart Key System
*12- w/o Smart Key System



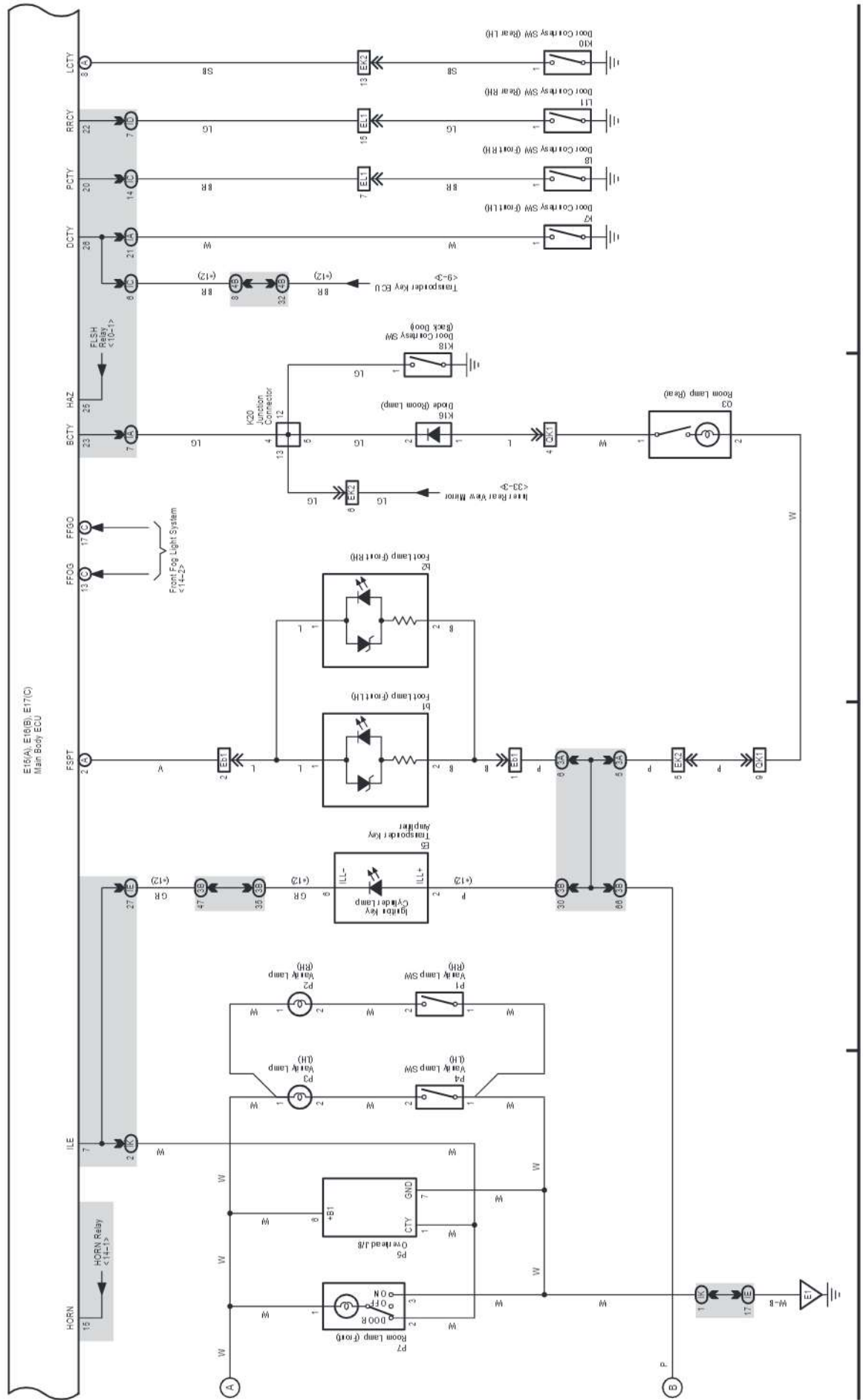
M OVERALL ELECTRICAL WIRING DIAGRAM

2 RAV4 (Cont' d)

(Cont. next page)

Multiplex Communication System (CAN)

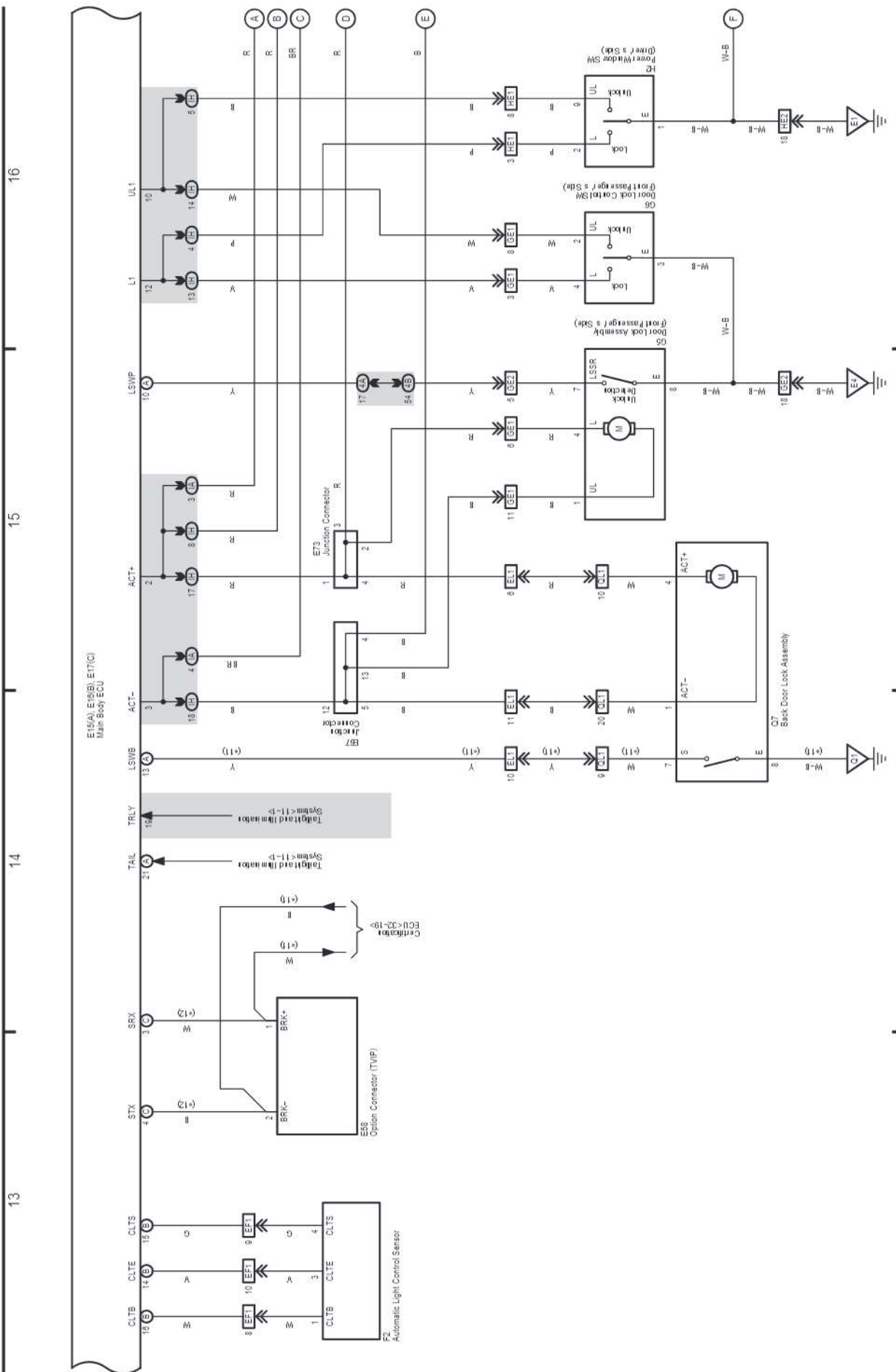
*12 : w/o Smart Key System



RAV4 (EM16B0U)

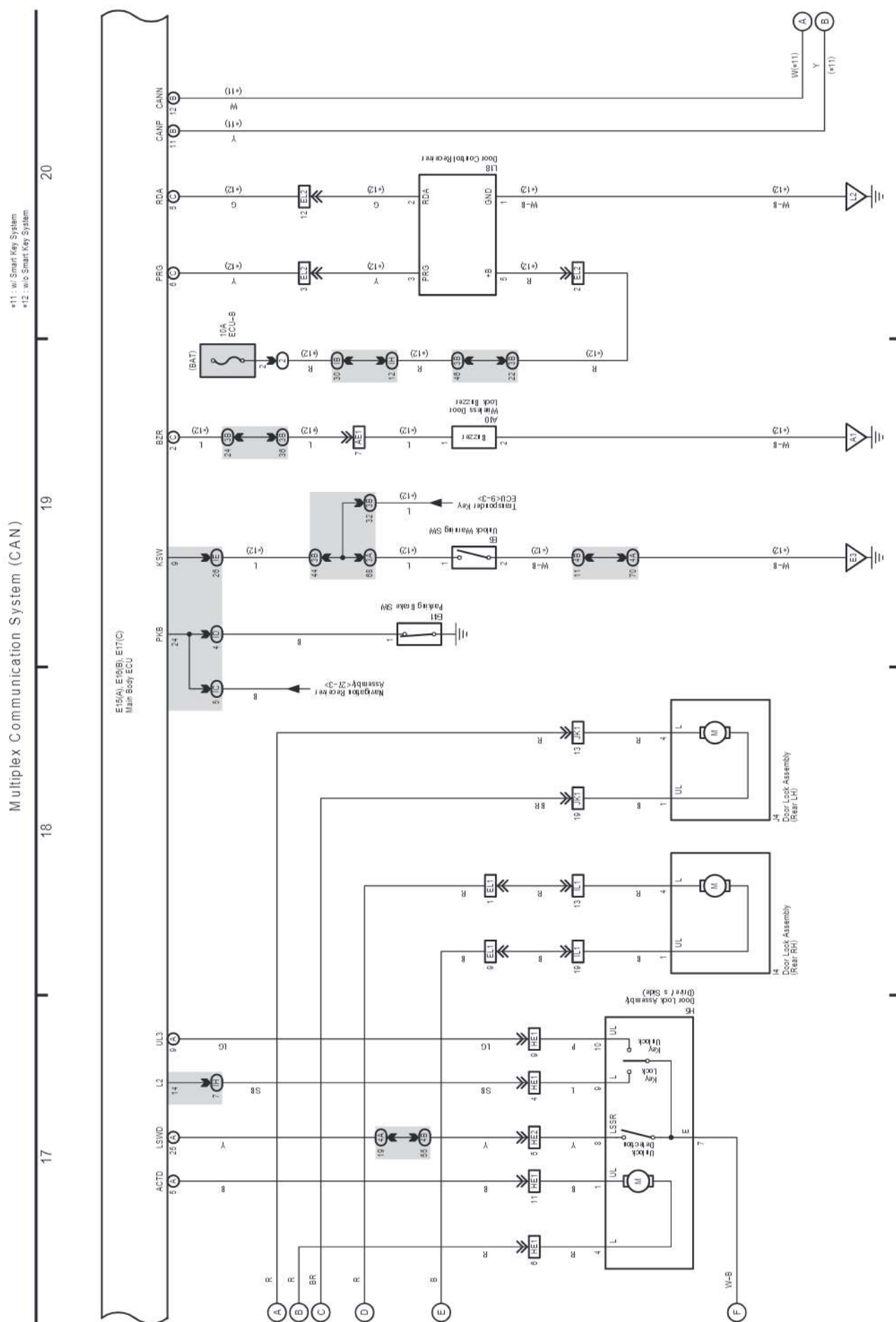
Multiplex Communication System (CAN)

*11 - w/ Smart Key System
 *12 - w/o Smart Key System



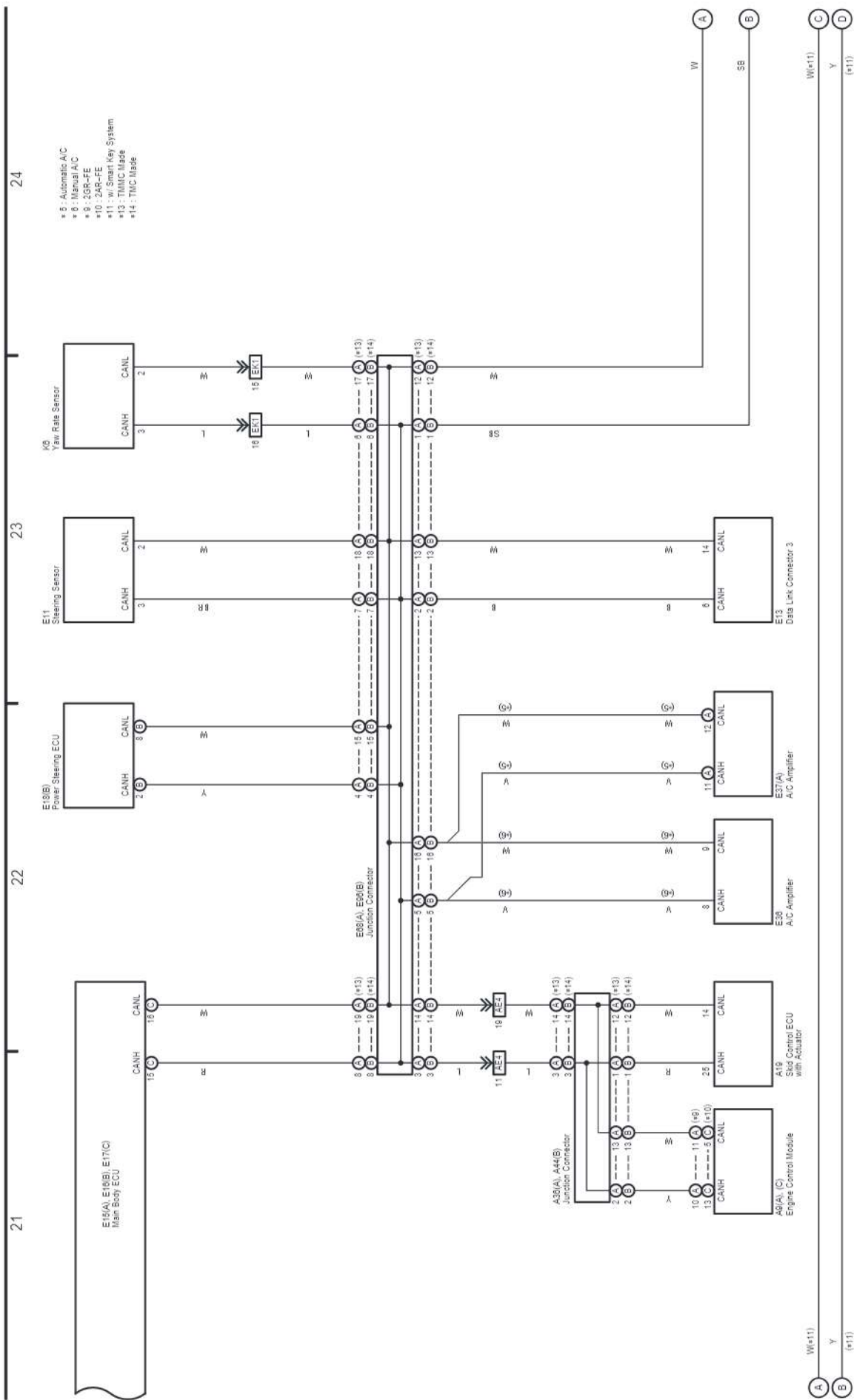
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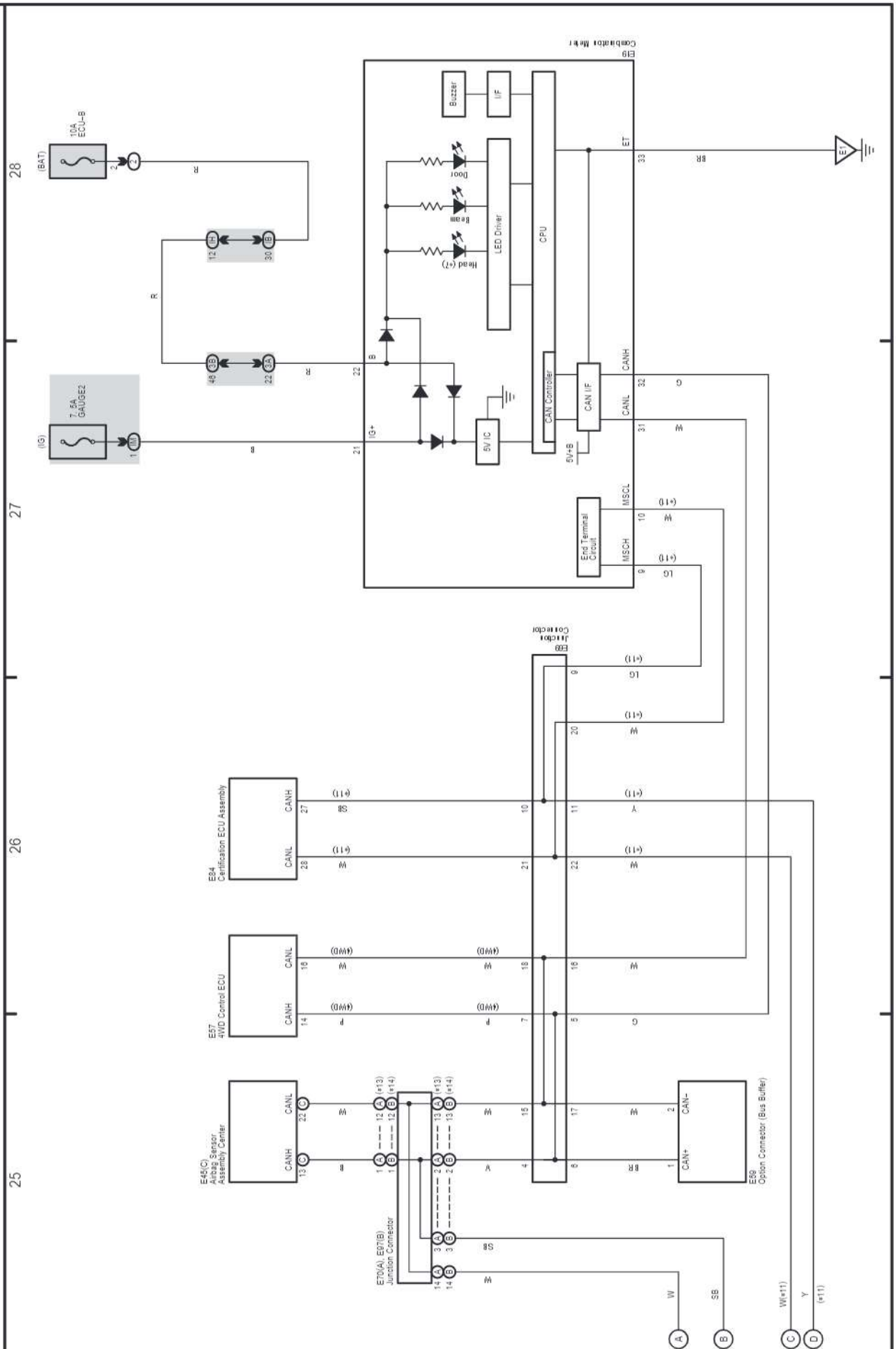


RAV4 (EM16B0U)

Multiplex Communication System (CAN)



2 RAV4 (Cont' d)



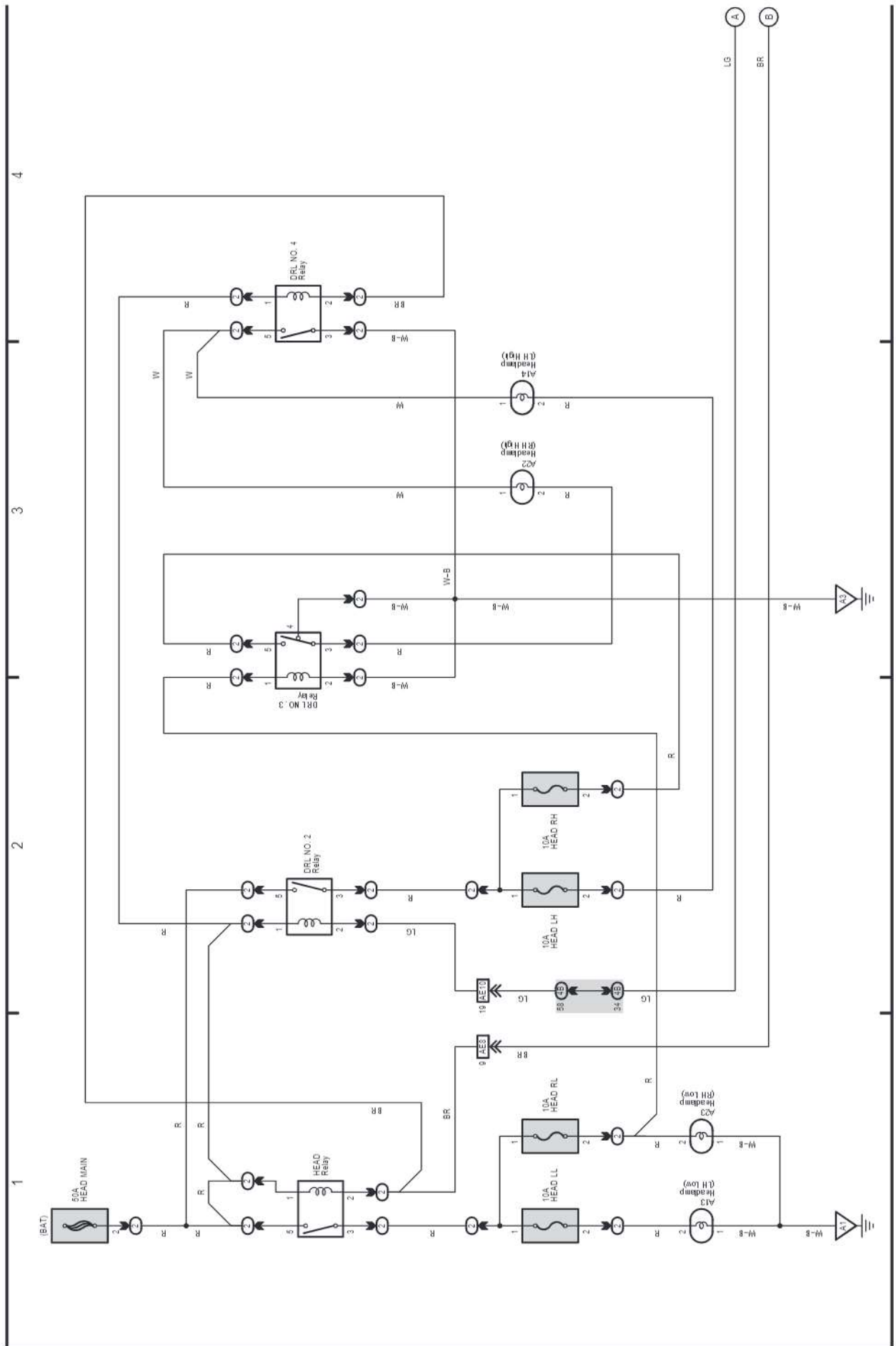
2 RAV4 (Cont' d)

M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

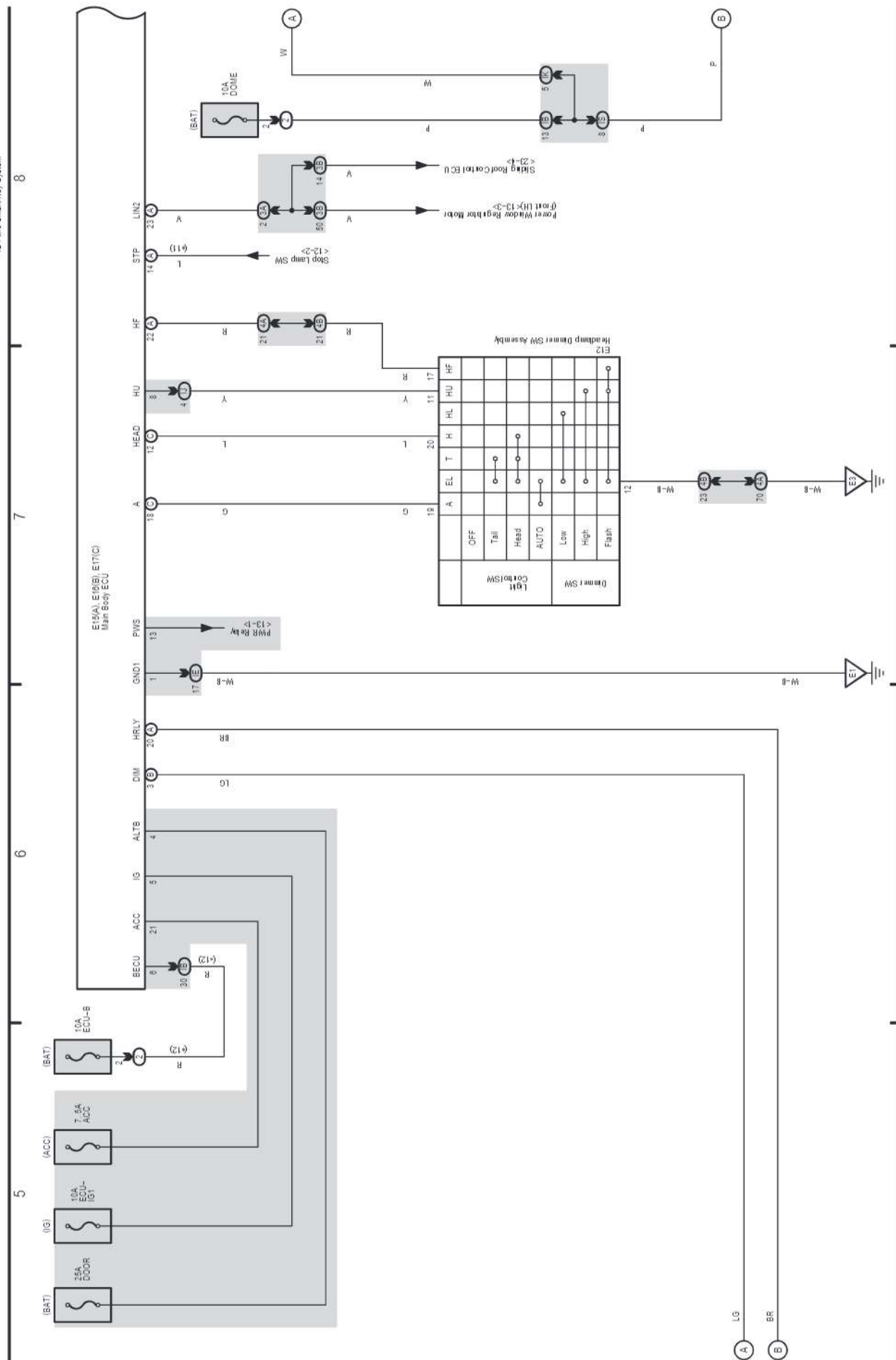
2 RAV4

Multiplex Communication System (CAN)



RAV4 (EM16B0U)

#11 : w/ Smart Key System
#12 : w/o Smart Key System



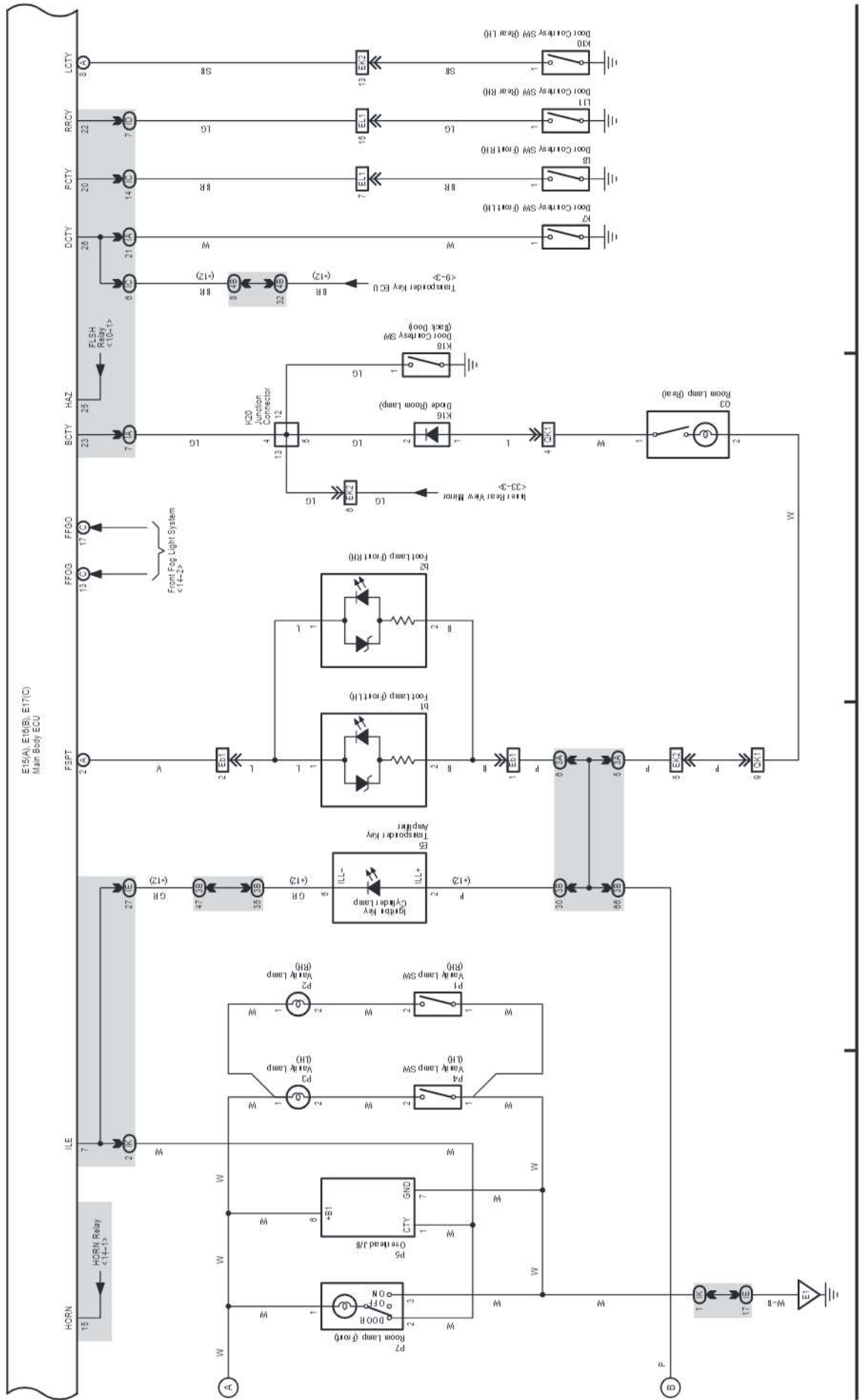
M OVERALL ELECTRICAL WIRING DIAGRAM

2 RAV4 (Cont' d)

(Cont. next page)

Multiplex Communication System (CAN)

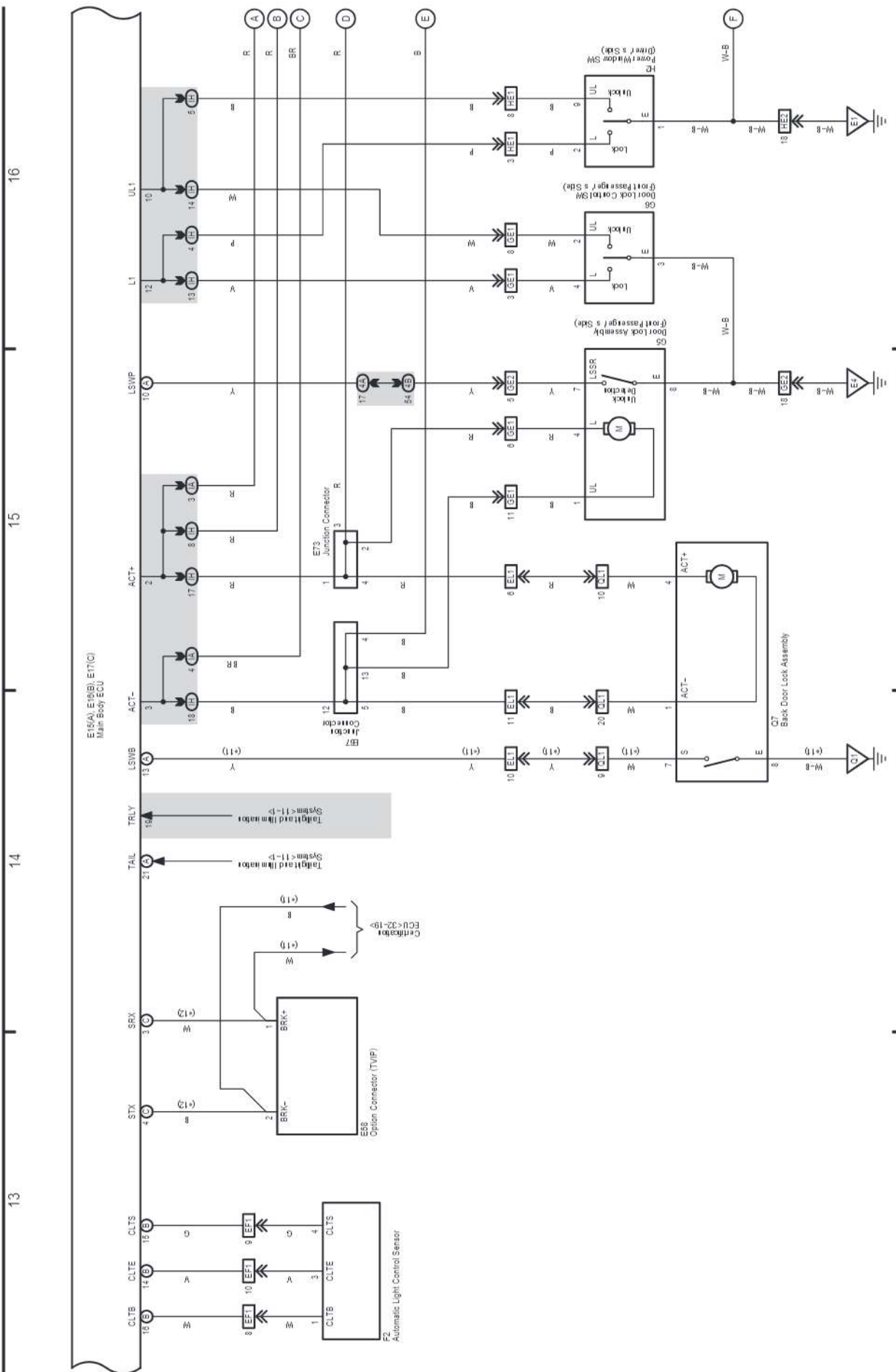
*12 : no Smart Key System



RAV4 (EM16B0U)

Multiplex Communication System (CAN)

*11 - w/ Smart Key System
 *12 - w/o Smart Key System



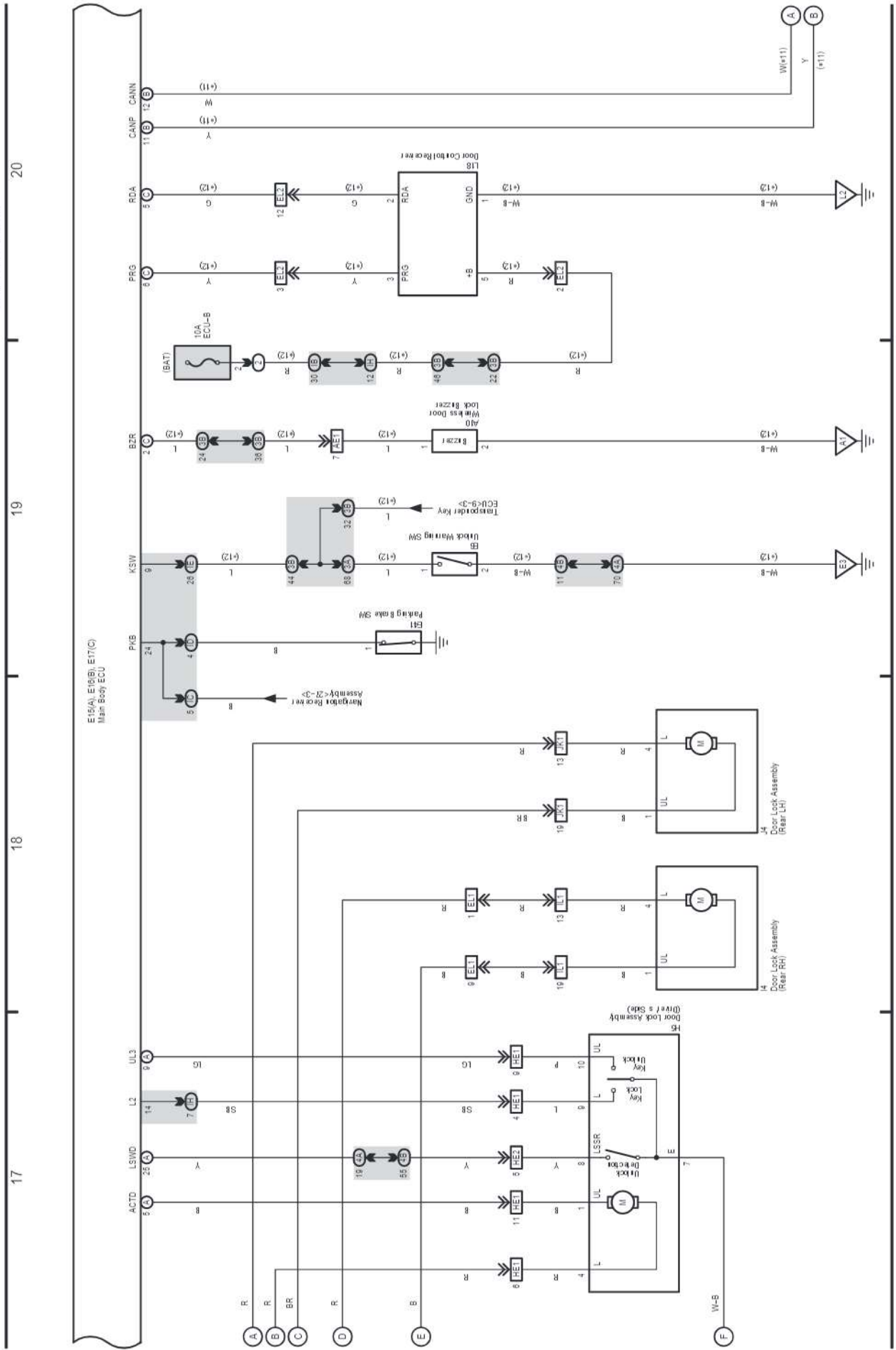
M OVERALL ELECTRICAL WIRING DIAGRAM

2 RAV4 (Cont' d)

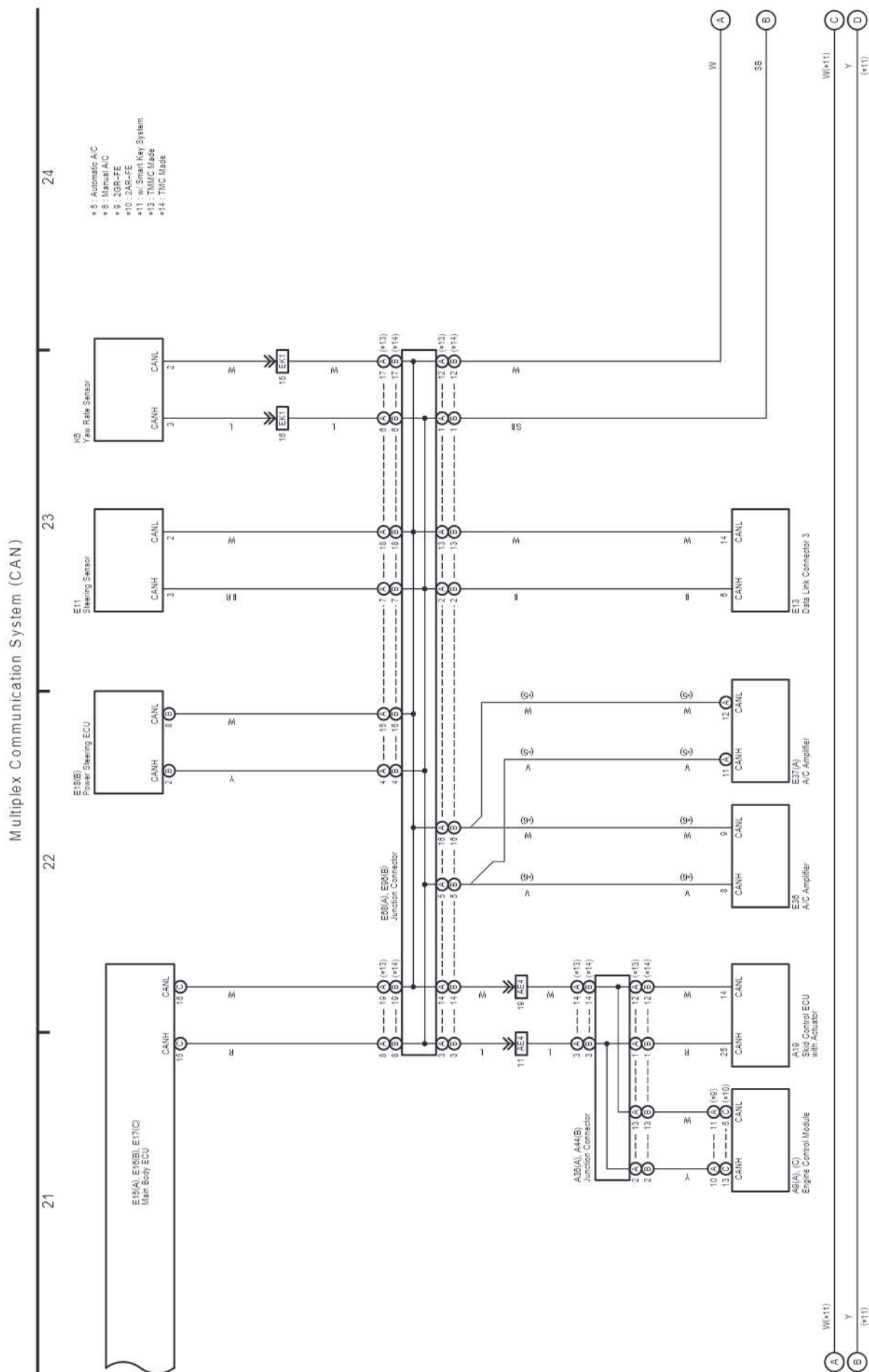
(Cont. next page)

Multiplex Communication System (CAN)

*11 : w/ Smart Key System
 *12 : w/o Smart Key System



RAV4 (EM16B0U)

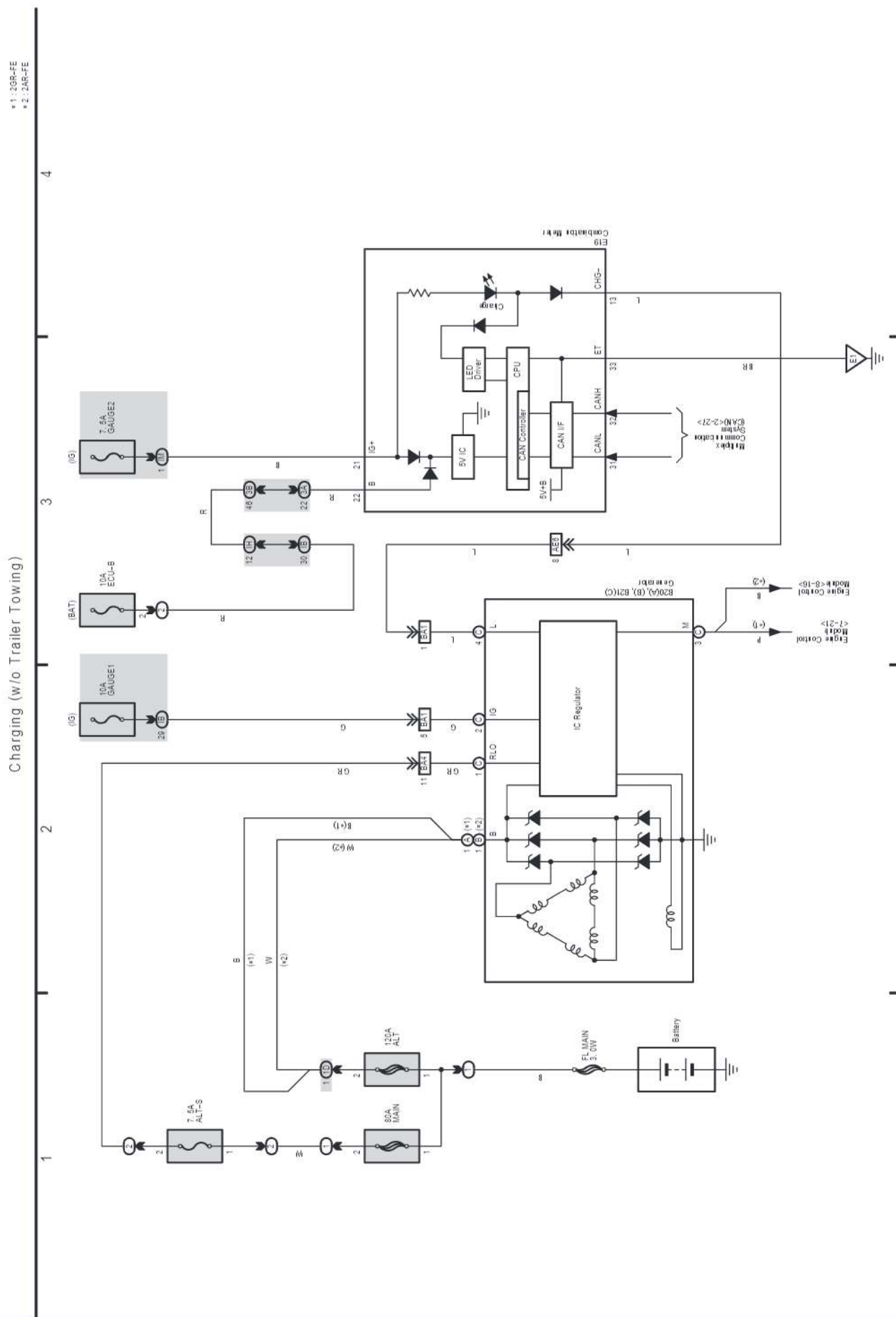


2 RAV4 (Cont' d)

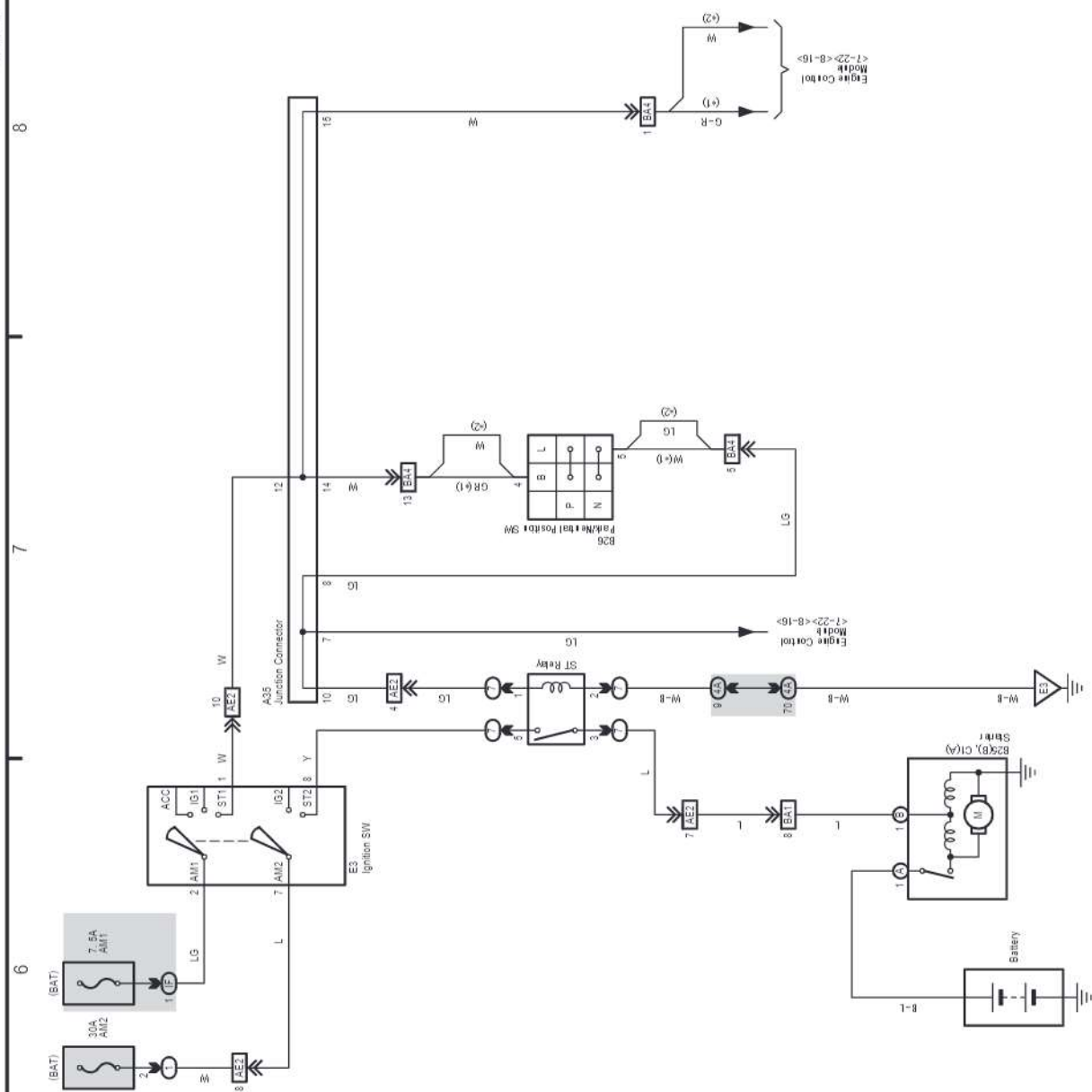


A diagram showing two qubits, C and D, represented as circles. Qubit C is the control qubit, and qubit D is the target qubit. A vertical line labeled 'C' is connected to qubit C, and a vertical line labeled 'D' is connected to qubit D. A horizontal line labeled 'Y' connects the two vertical lines, representing a controlled operation.

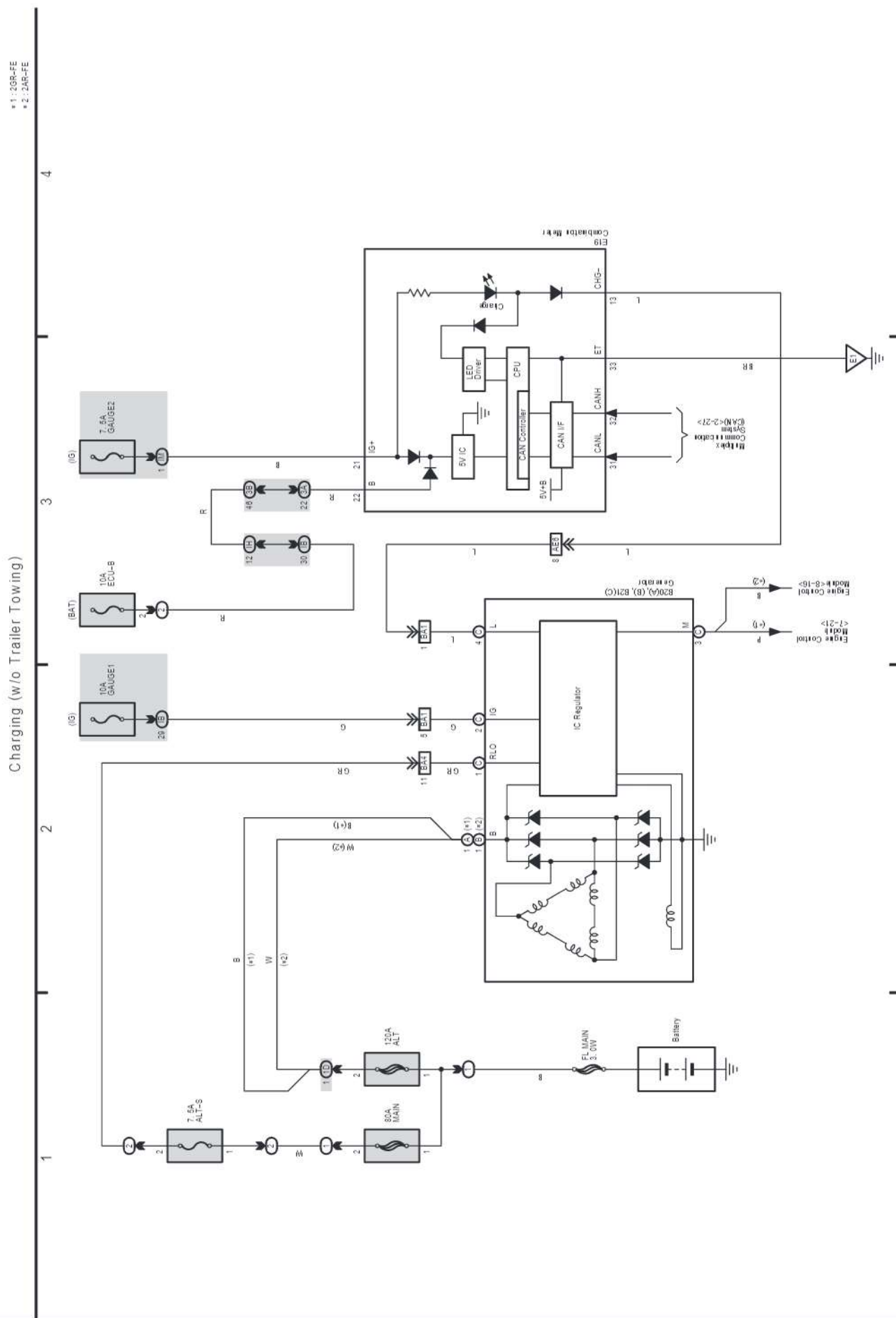
RAV4 (EM16B0U)



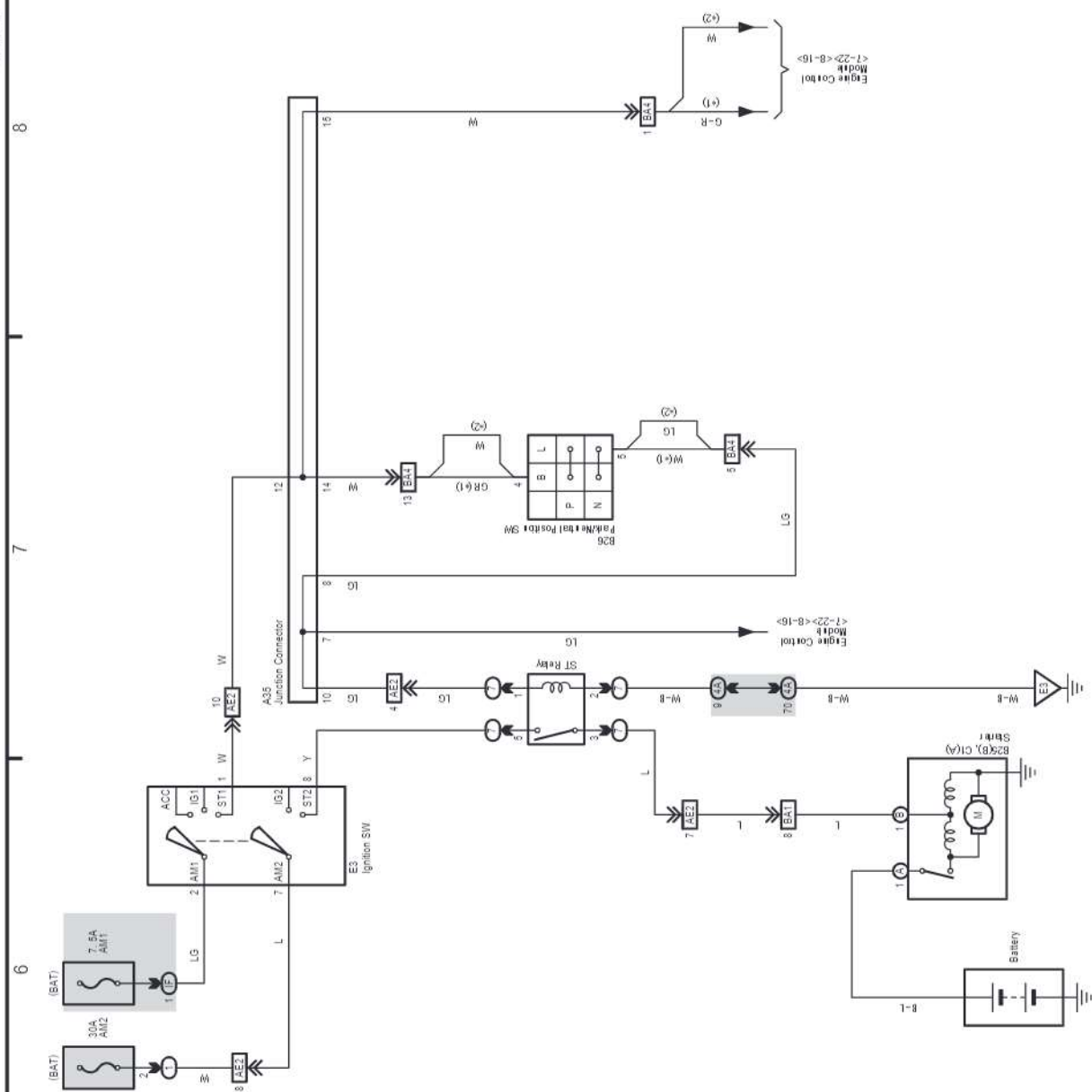
Starting (w/o Smart Key System)



RAV4 (EM16B0U)



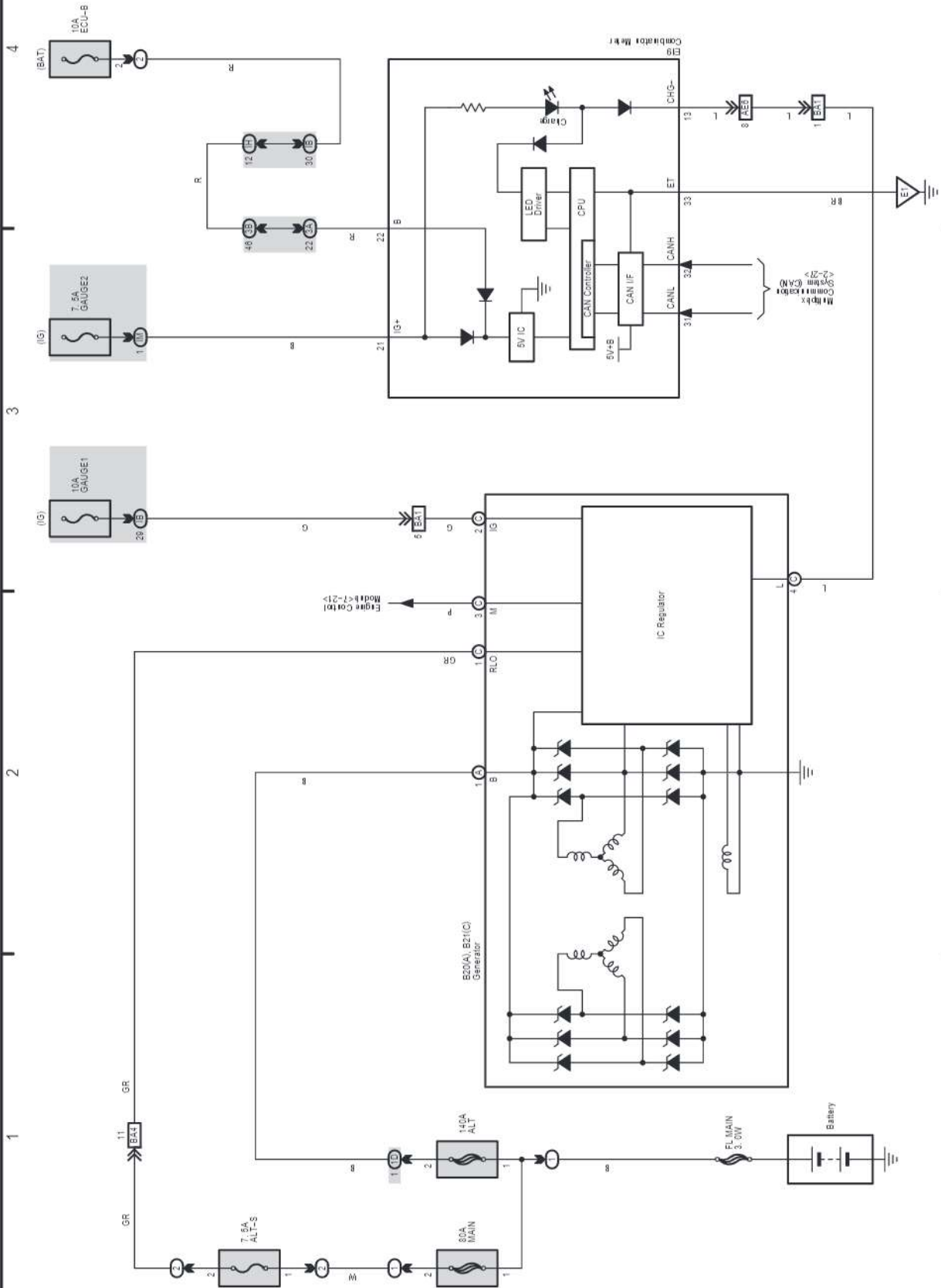
Starting (w/o Smart Key System)



M OVERALL ELECTRICAL WIRING DIAGRAM

4 RAV4

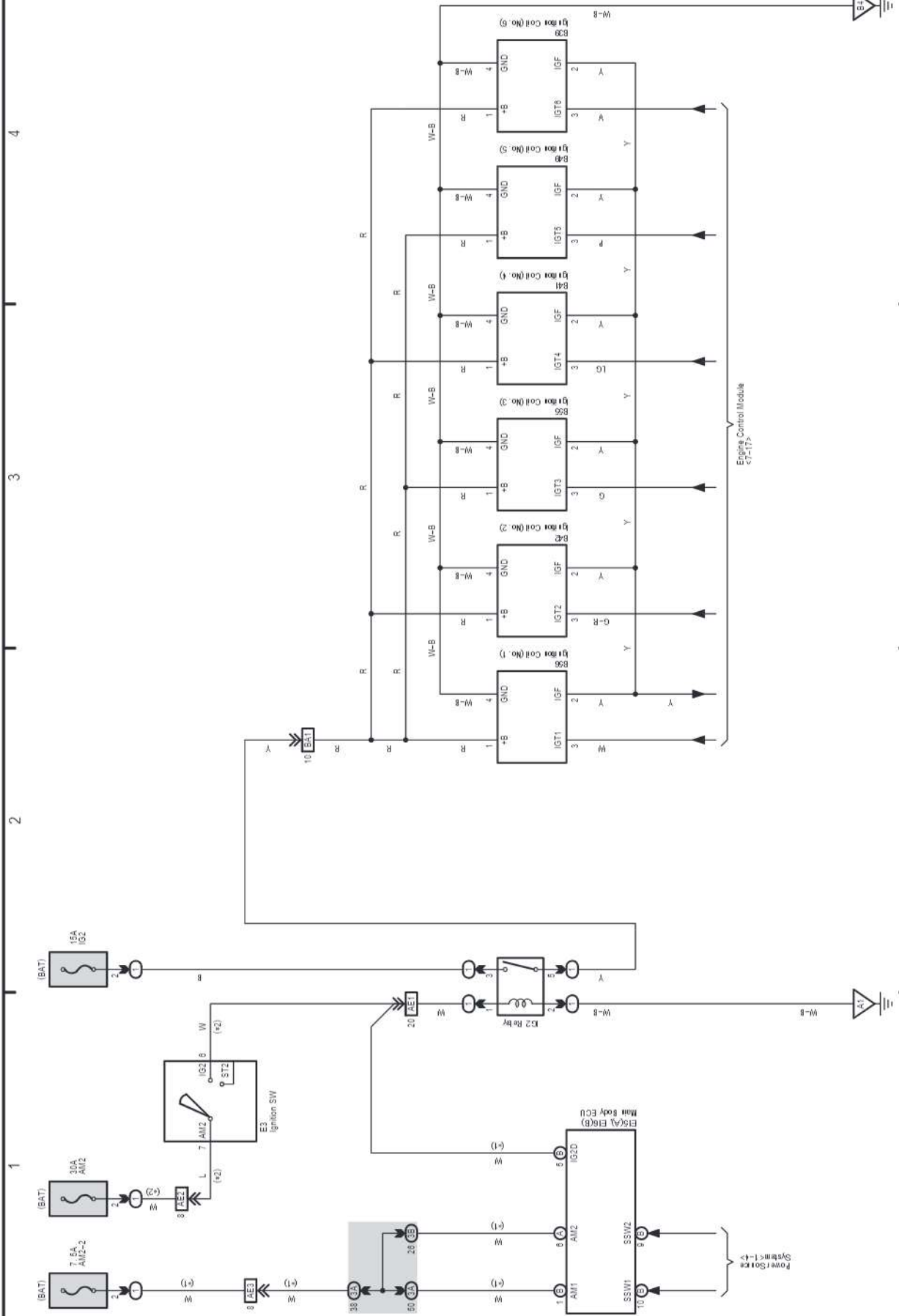
Charging (w/ Trailer Towing)



RAV4 (EM16B0U)

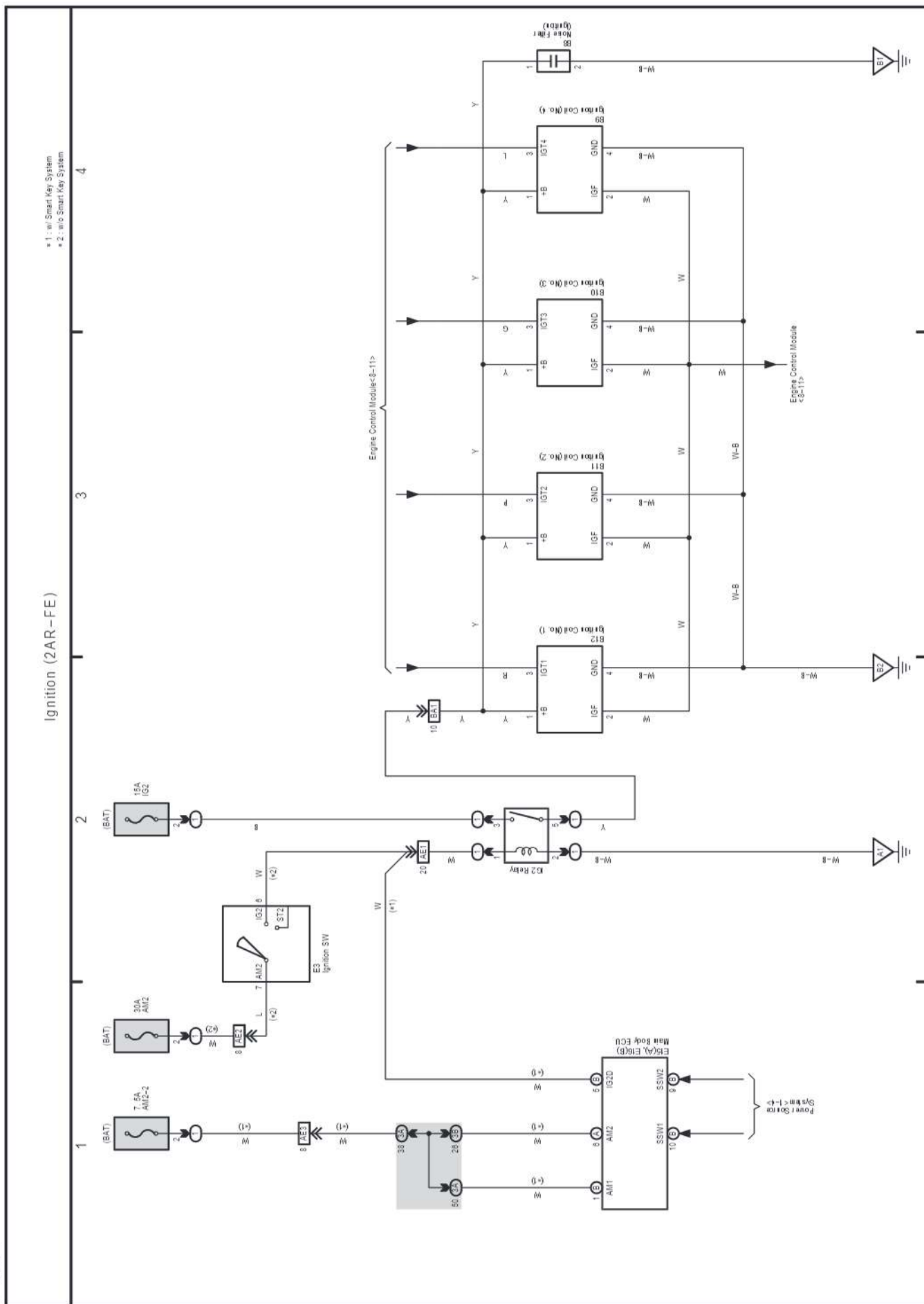
Ignition (2GR-FE)

- 1 : w/ Smart Key System
- 2 : w/o Smart Key System



M OVERALL ELECTRICAL WIRING DIAGRAM

6 RAV4

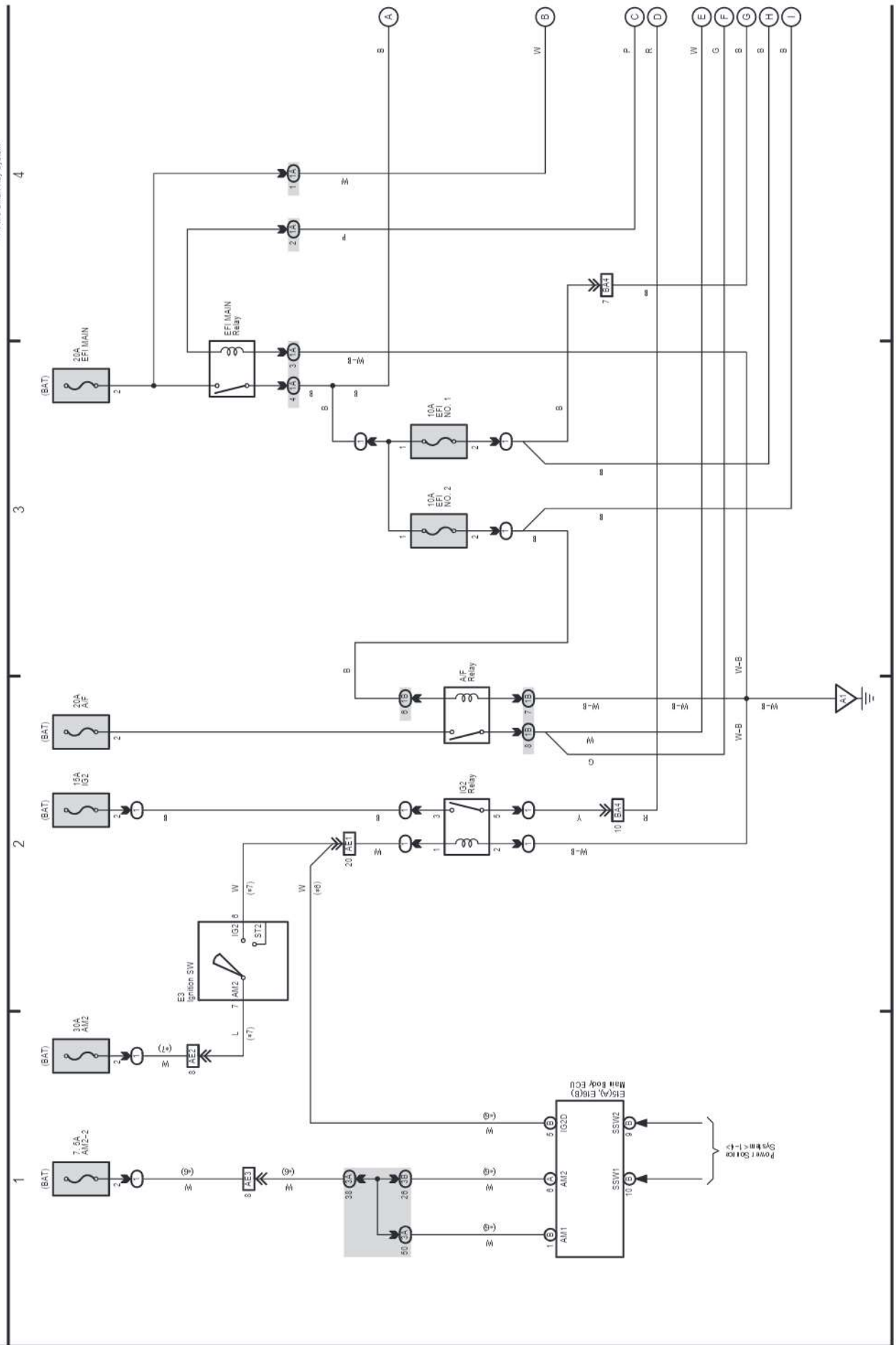


RAV4 (EM16B0U)

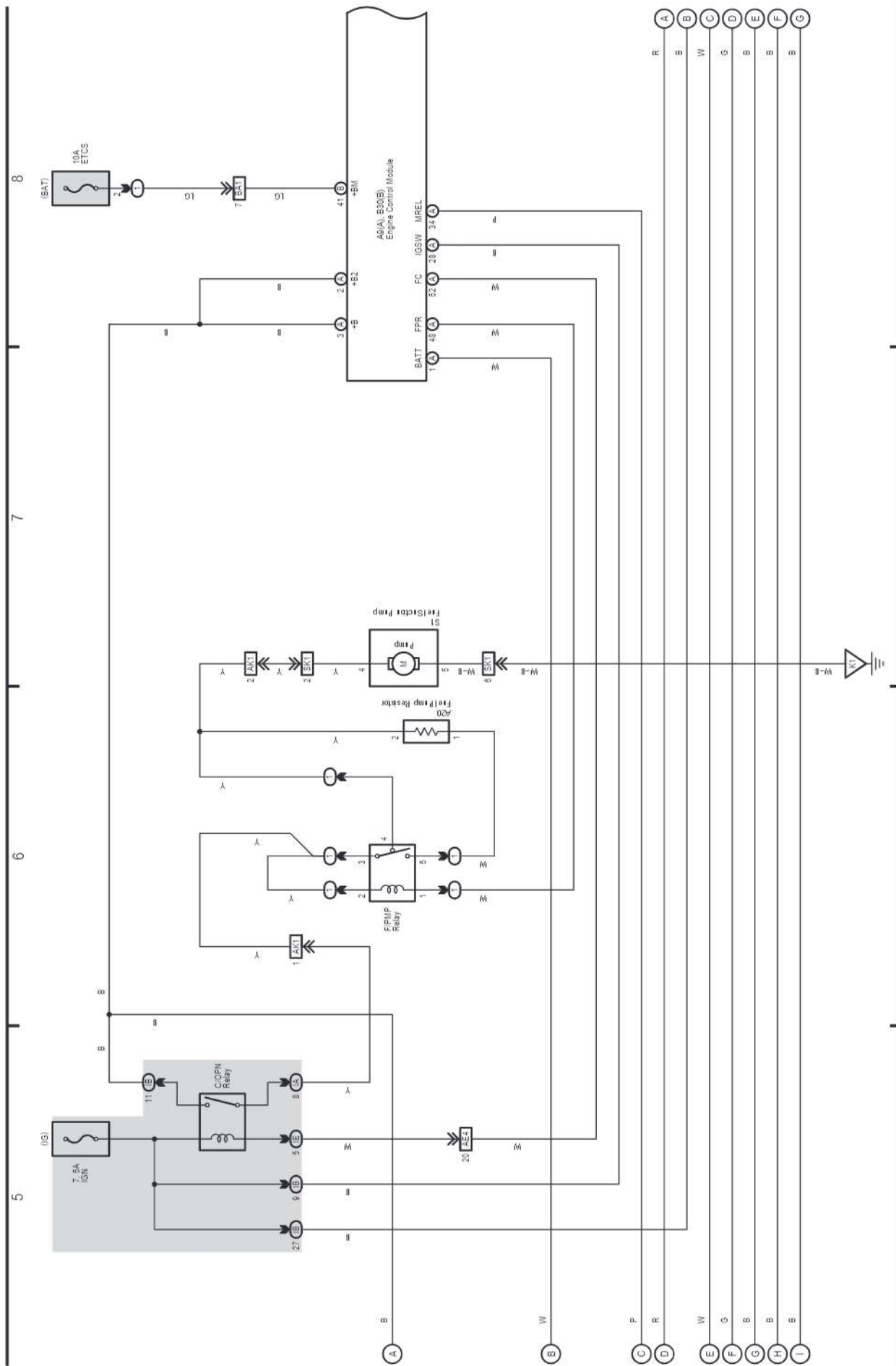
M OVERALL ELECTRICAL WIRING DIAGRAM

Engine Control (2GR-FE)

* 8 : w/ Smart Key System
 * 7 : w/o Smart Key System

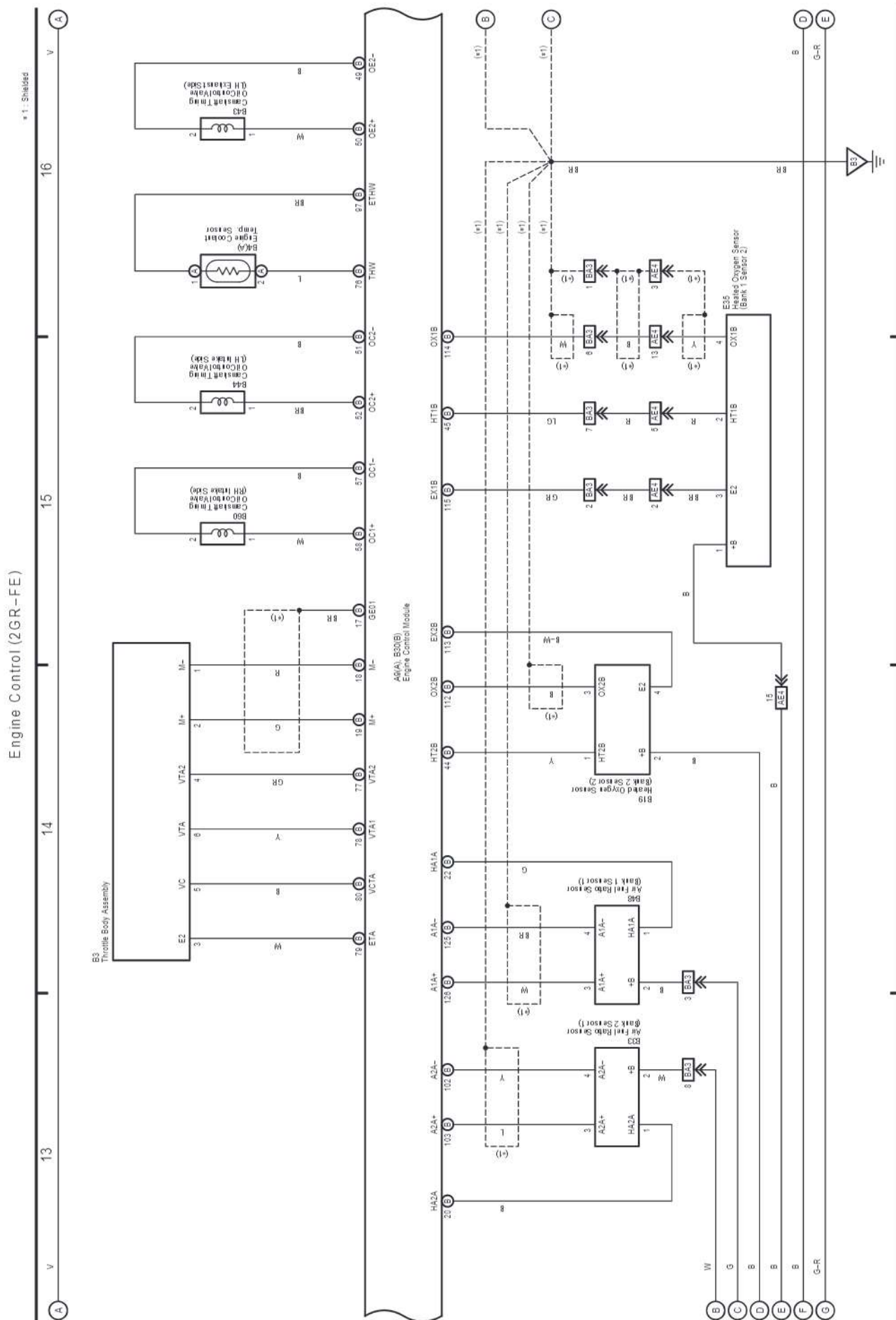


Engine Control (2GR-FE)



7 RAV4 (Cont' d)





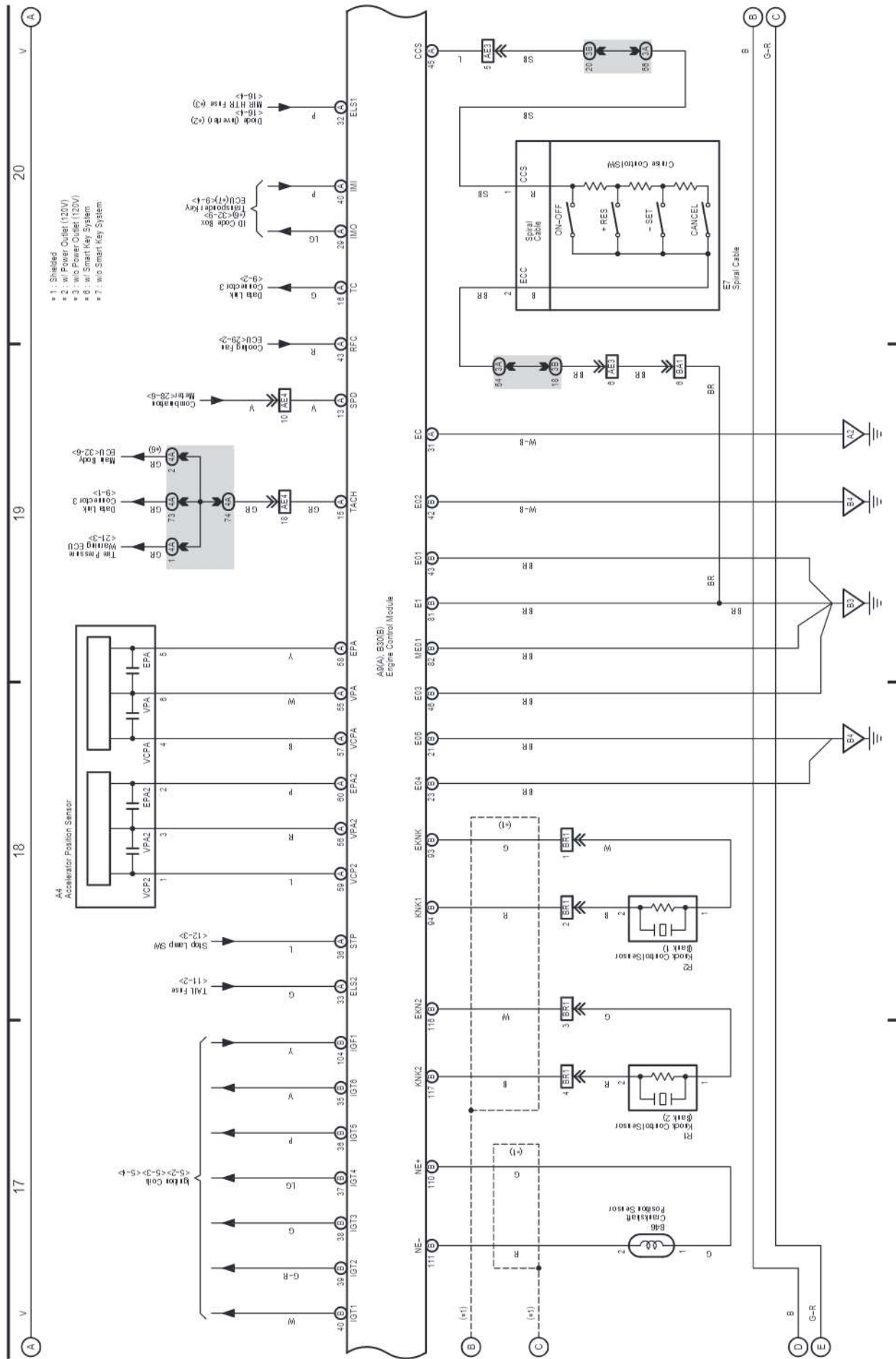
M OVERALL ELECTRICAL WIRING DIAGRAM

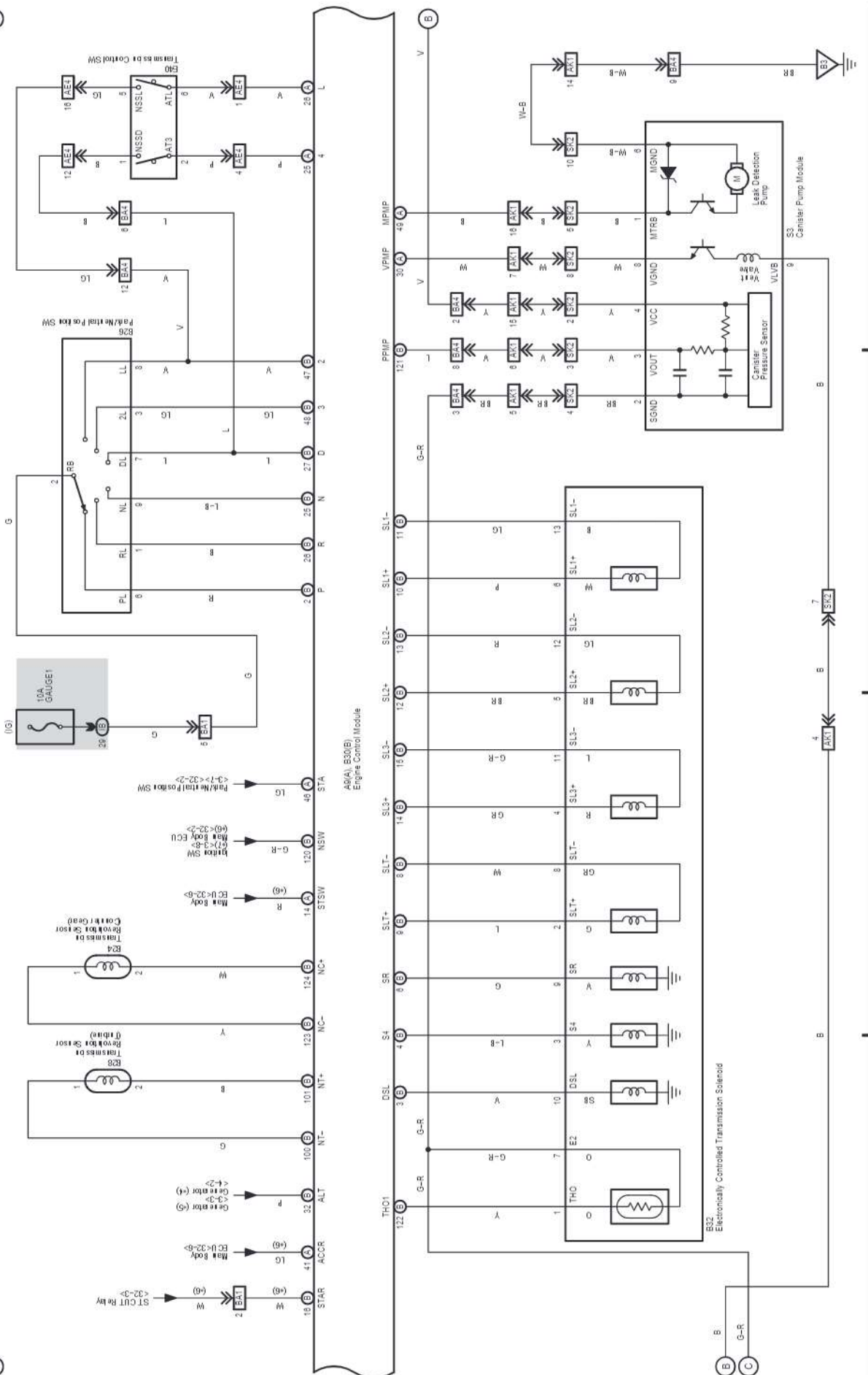
7 RAV4 (Cont' d)

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Engine Control (2GR-FE)

Cruise Control (2GR-FE)

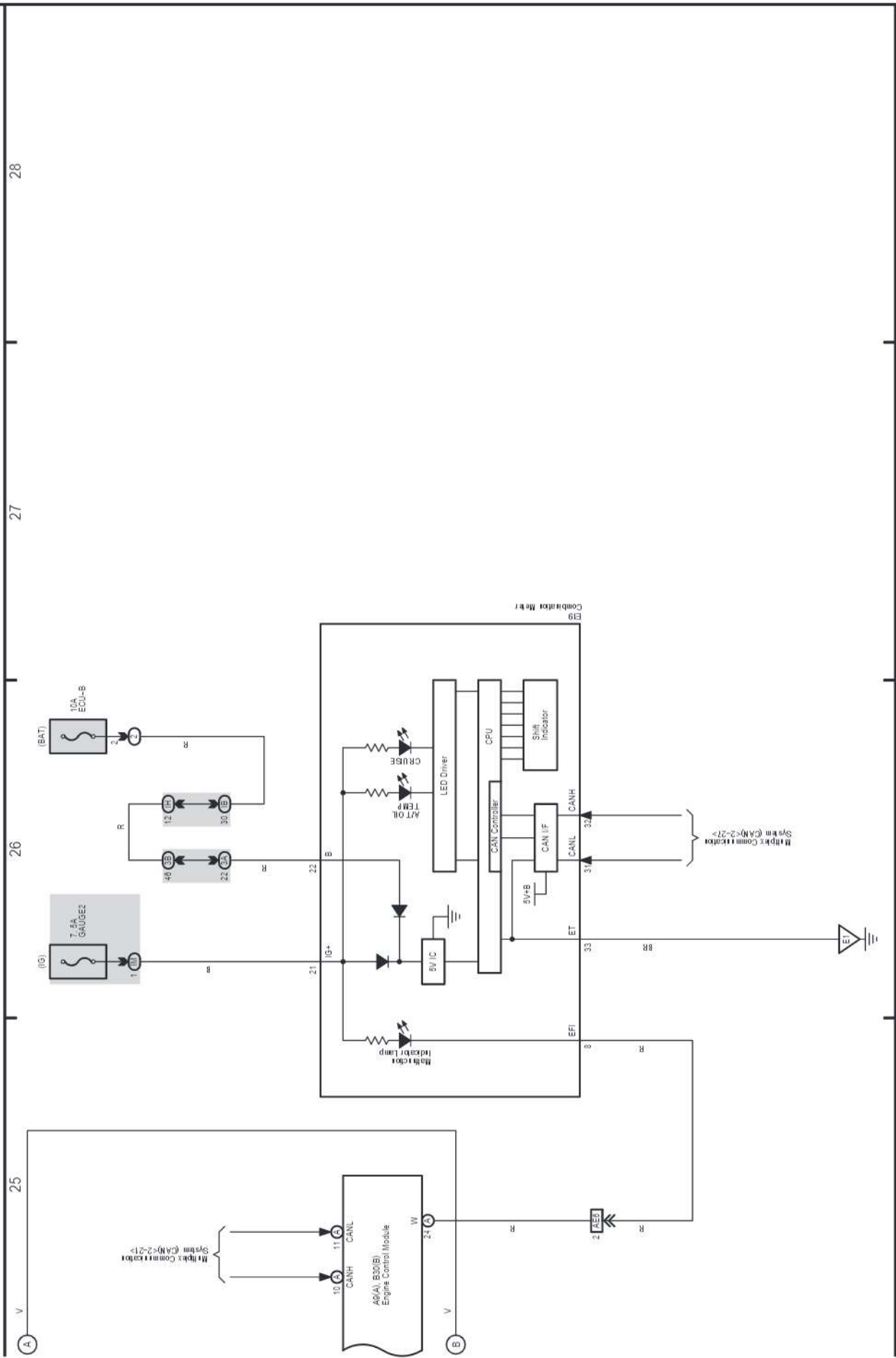




M OVERALL ELECTRICAL WIRING DIAGRAM

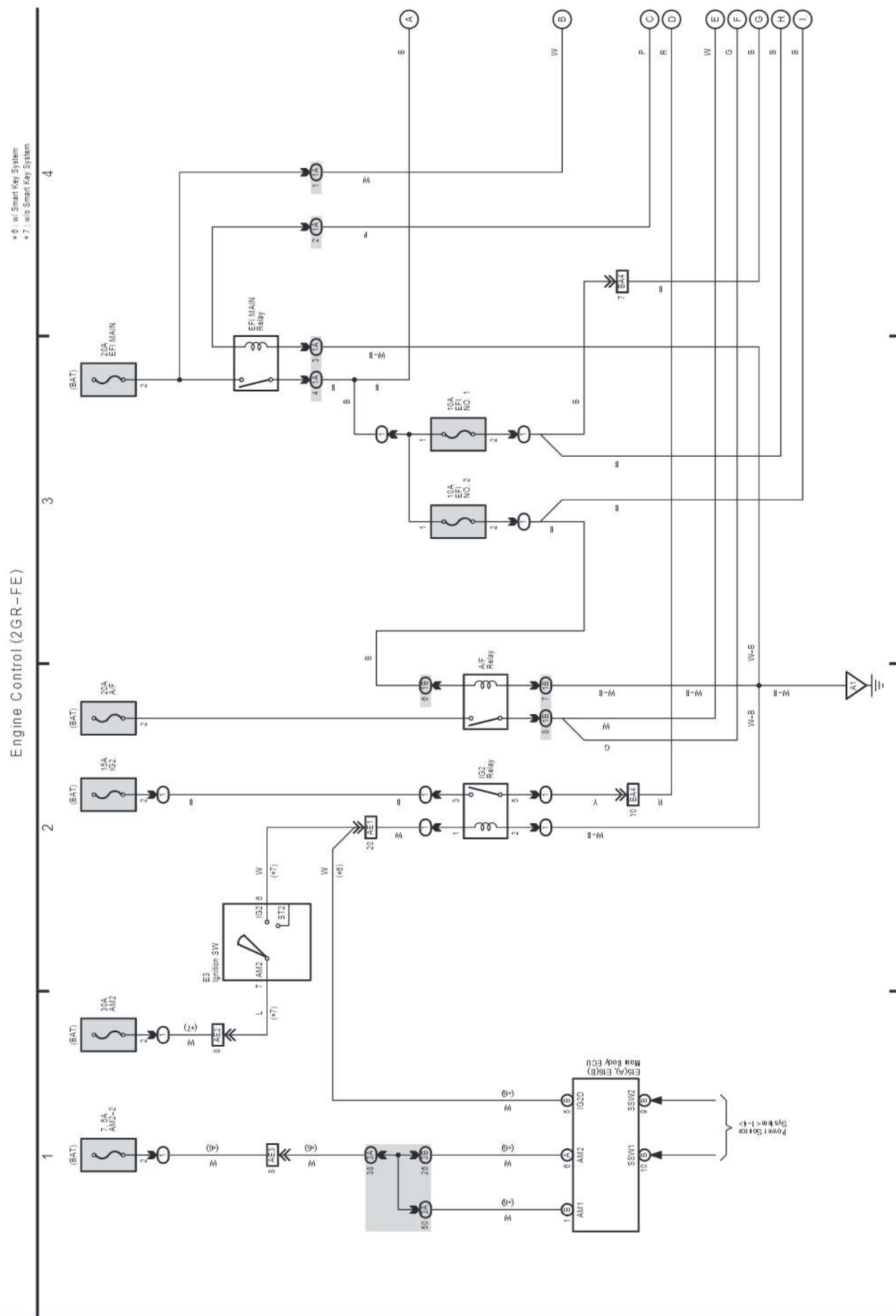
7 RAV4 (Cont' d)

Electronically Controlled Transmission and A/T Indicator (2GR-FE)

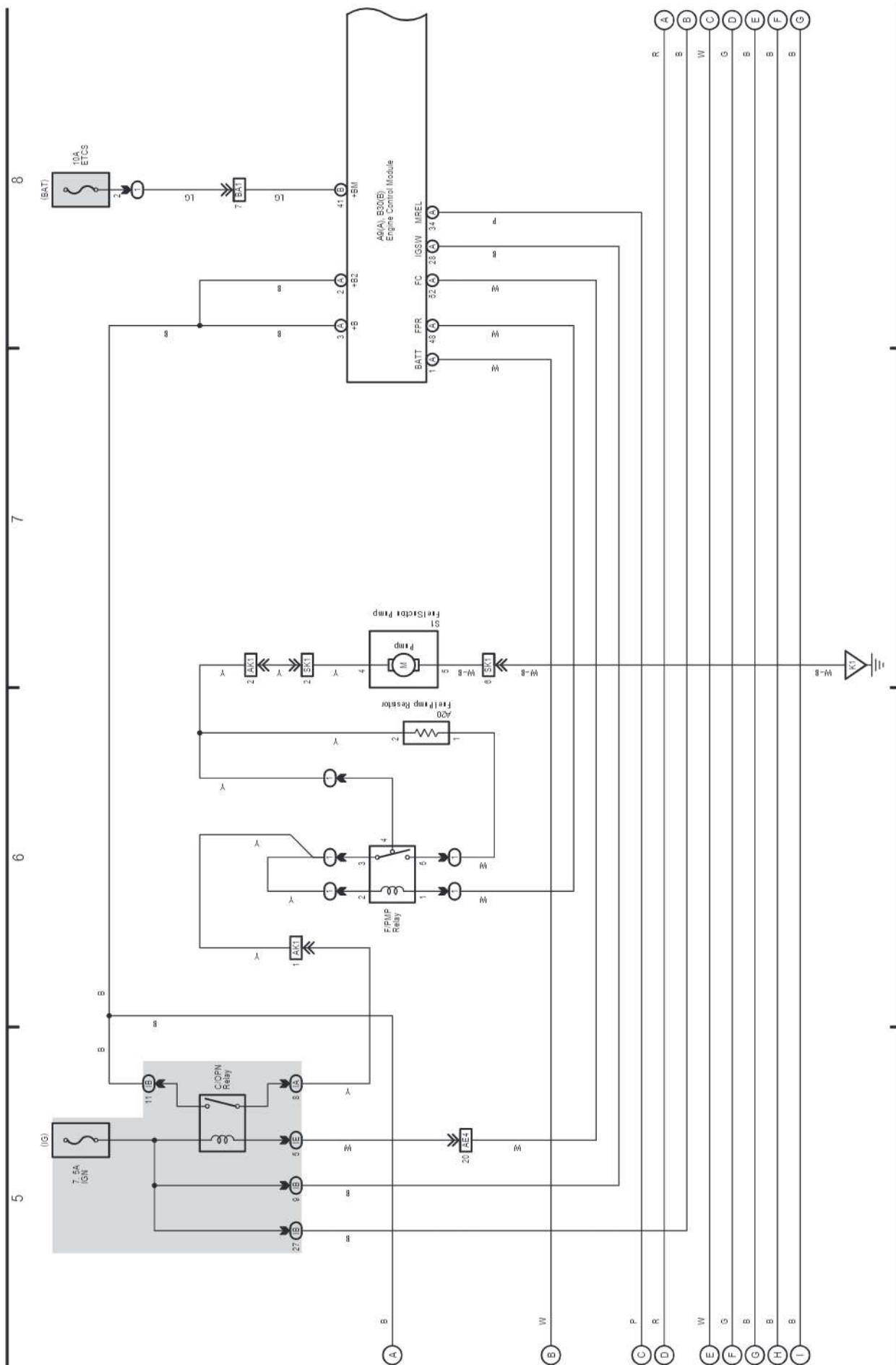


RAV4 (EM16B0U)

(Cont. next page)



Engine Control (2GR-FE)

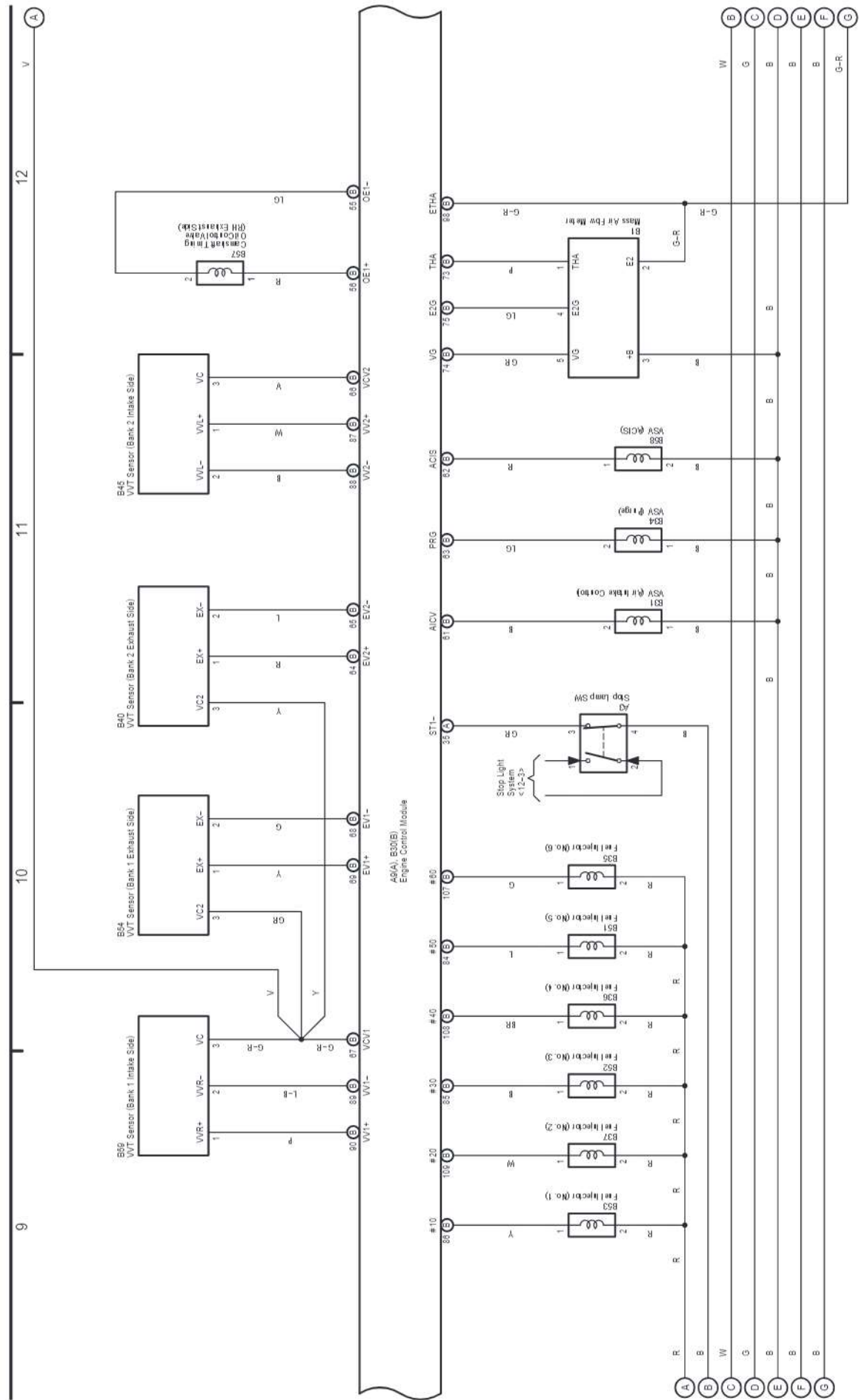


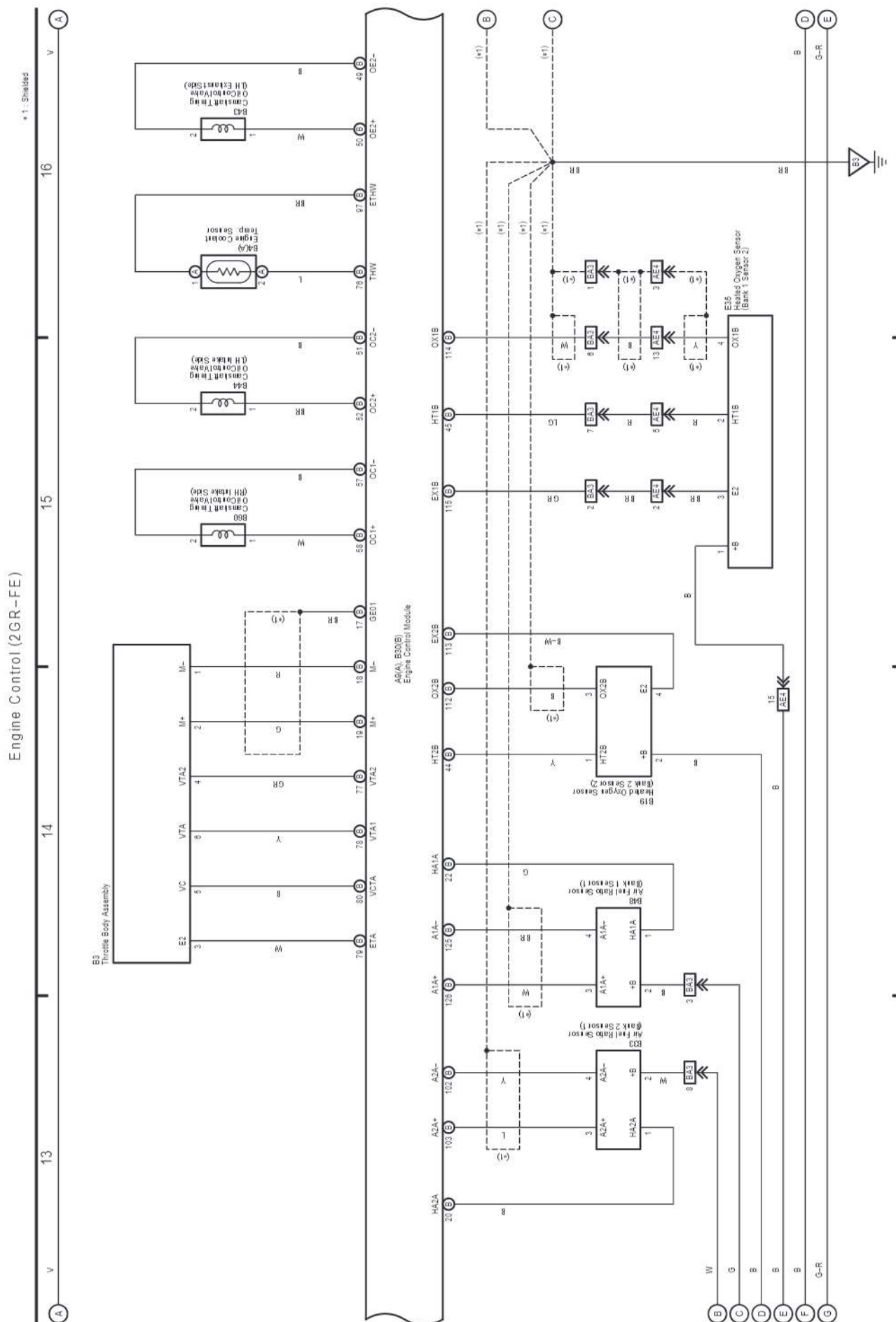
M OVERALL ELECTRICAL WIRING DIAGRAM

7 RAV4 (Cont' d)

(Cont. next page)

Engine Control (2GR-FE)





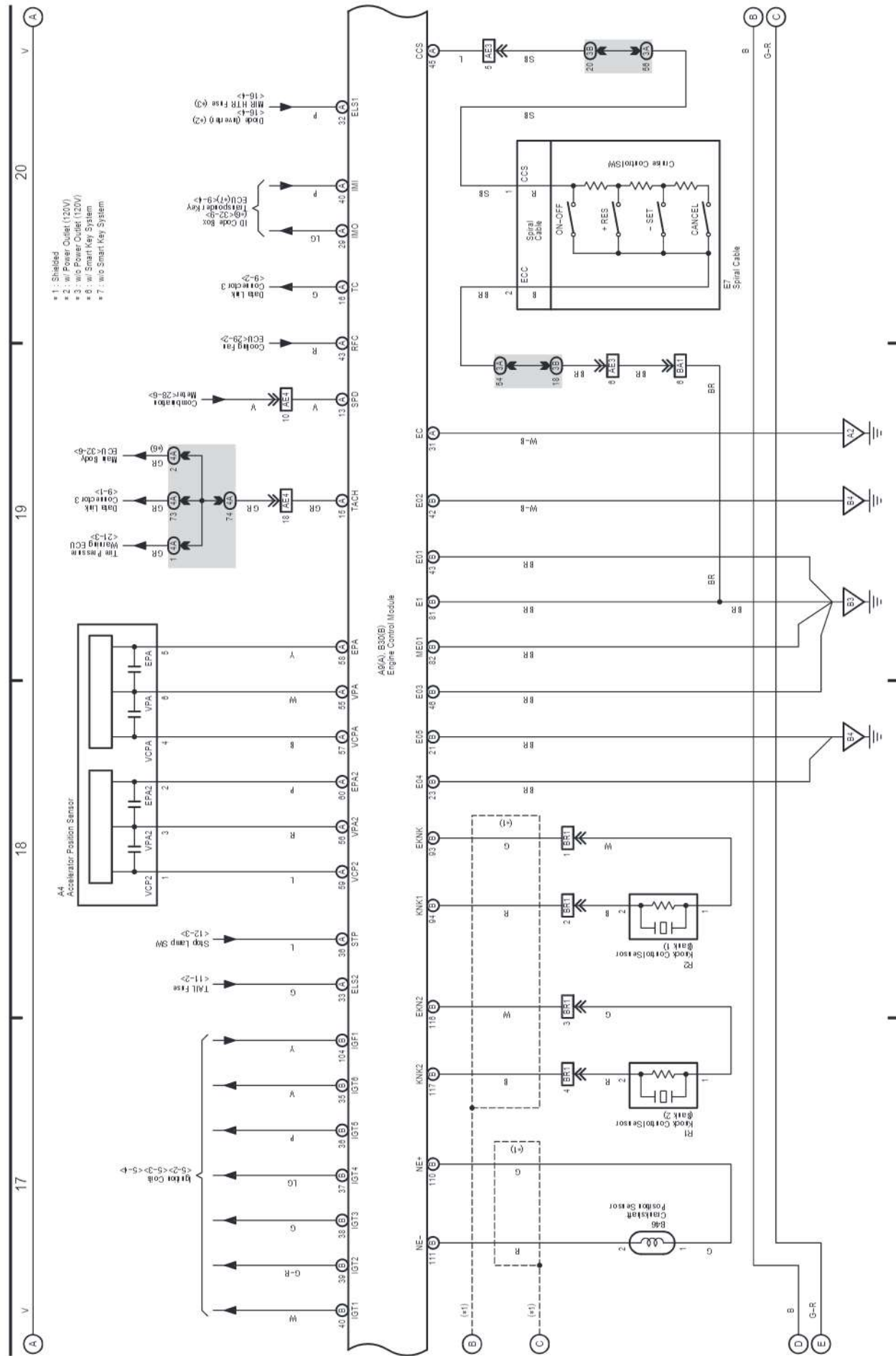
M OVERALL ELECTRICAL WIRING DIAGRAM

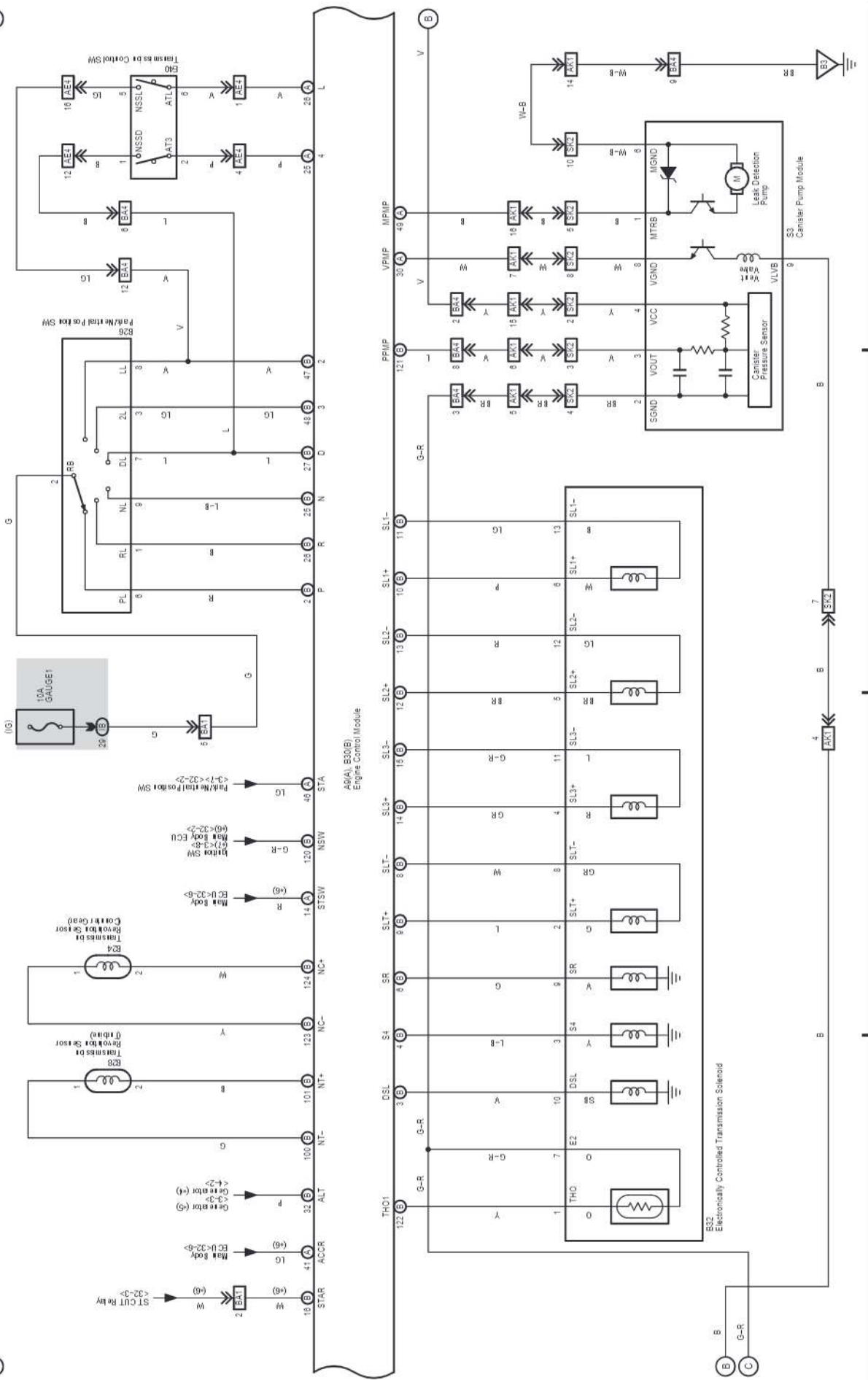
7 RAV4 (Cont' d)

(Cont. next page)

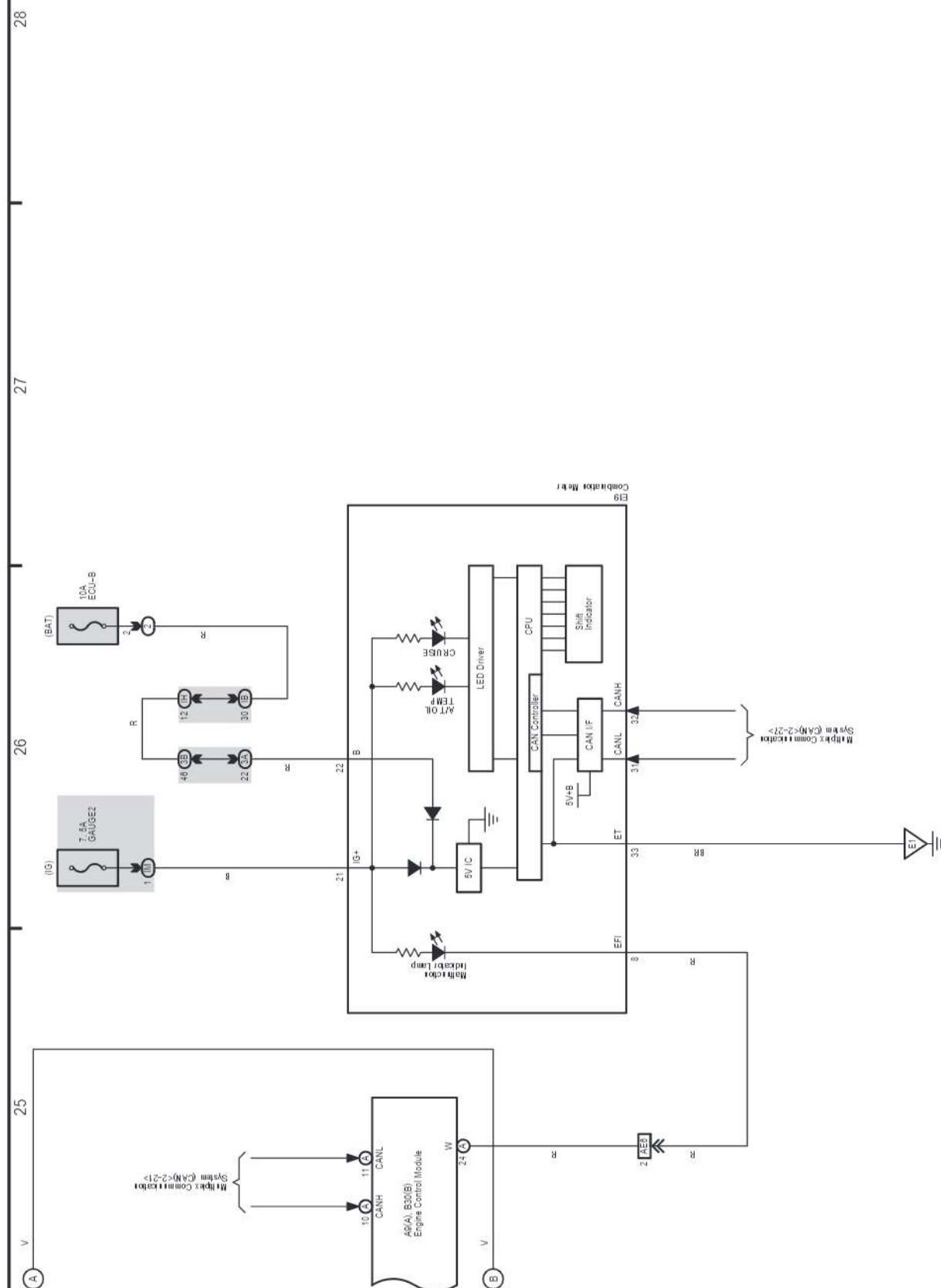
Engine Control (2GR-FE)

Cruise Control (2GR-FE)





7 RAV4 (Cont' d)

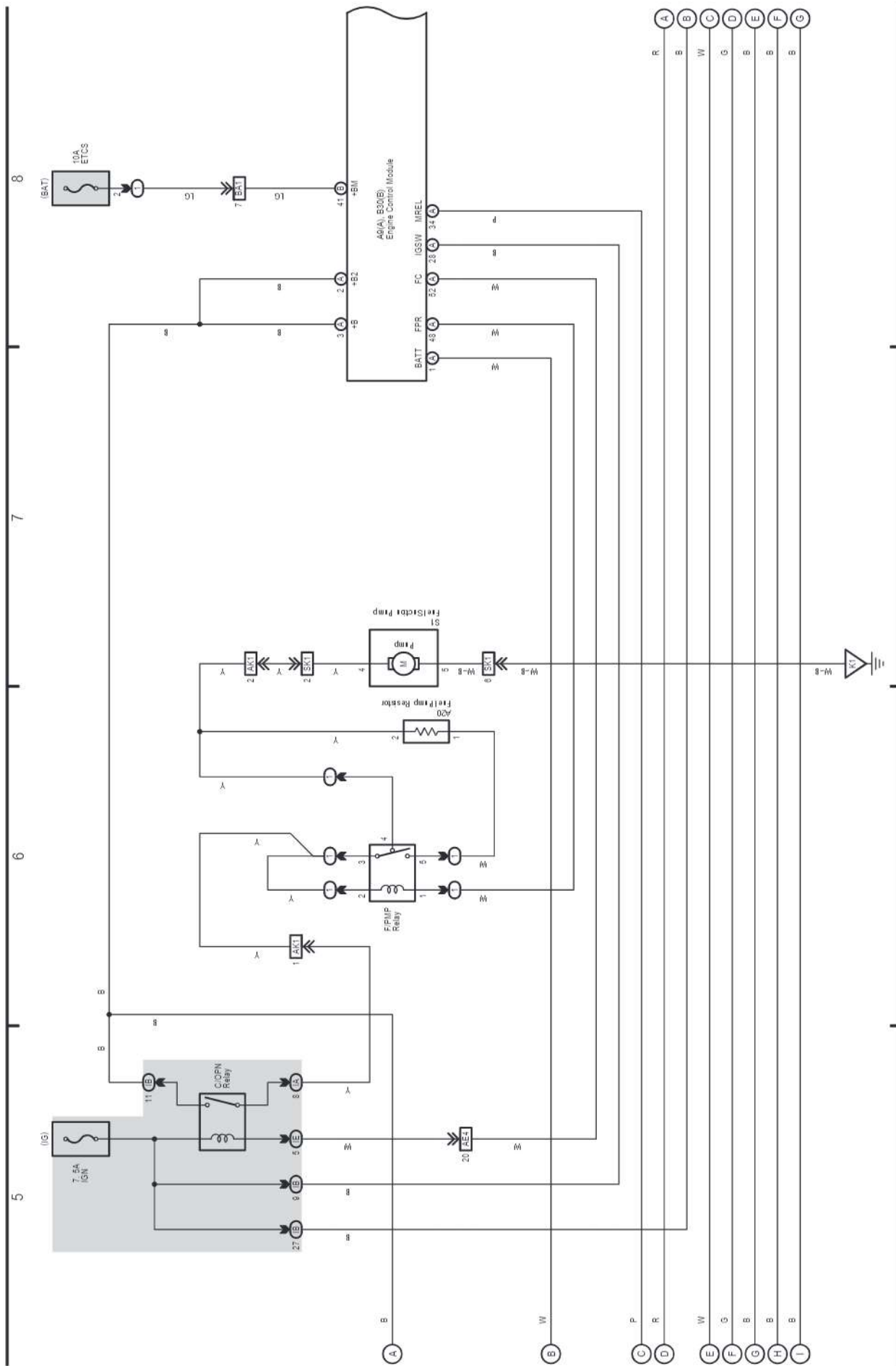


RAV4 (EM16B0U)

(Cont. next page)

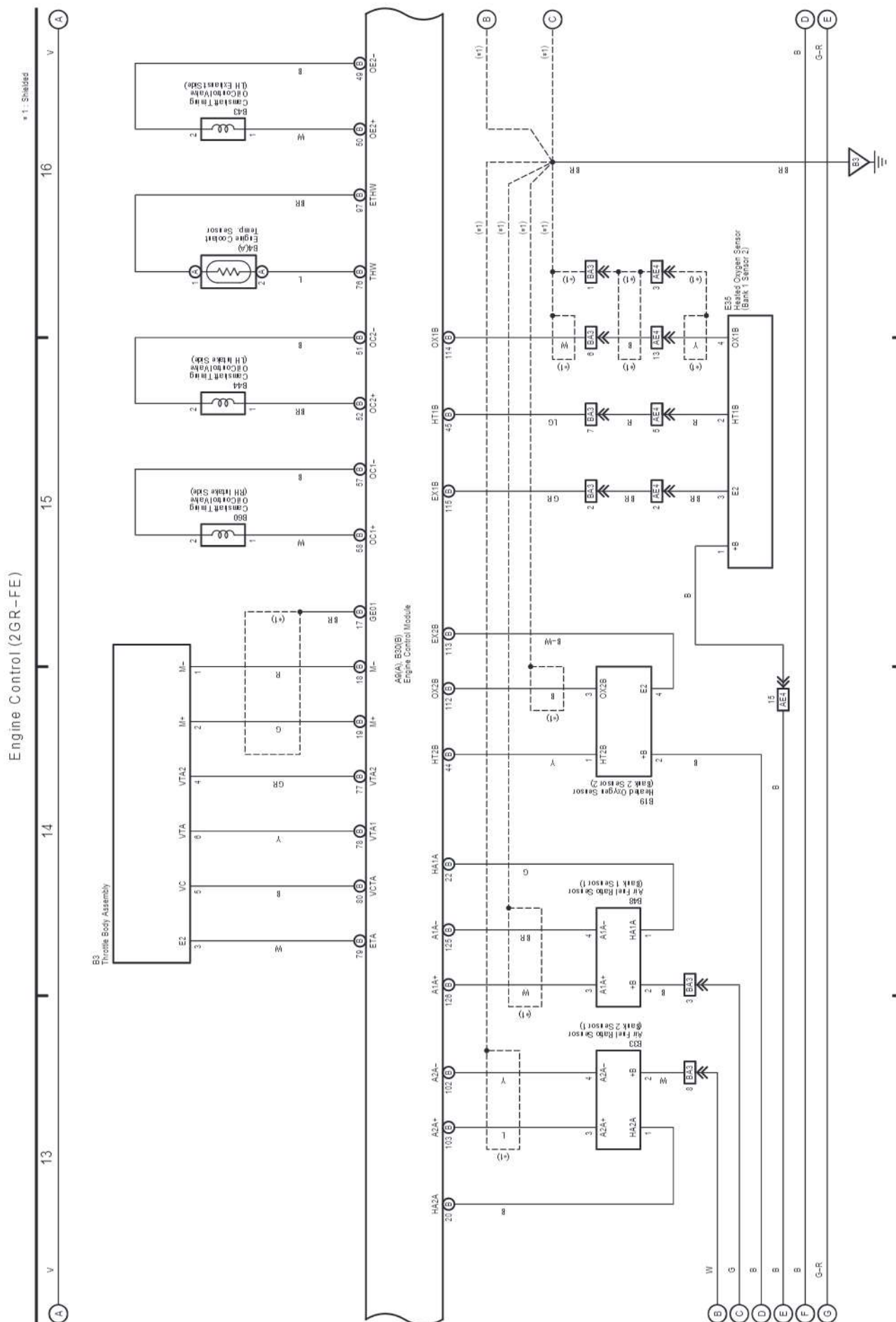


Engine Control (2GR-FE)



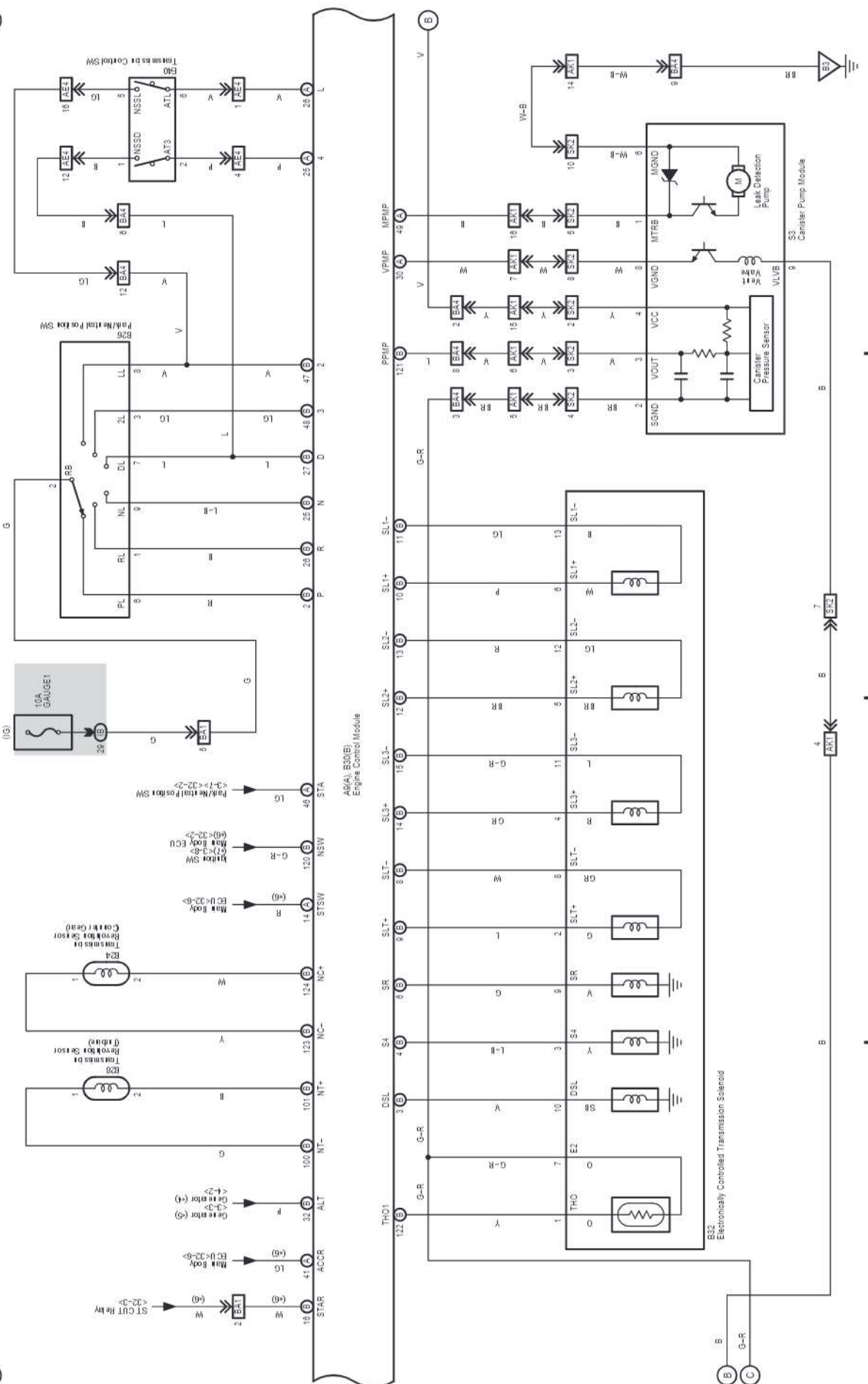
7 RAV4 (Cont' d)





7 RAV4 (Cont' d)

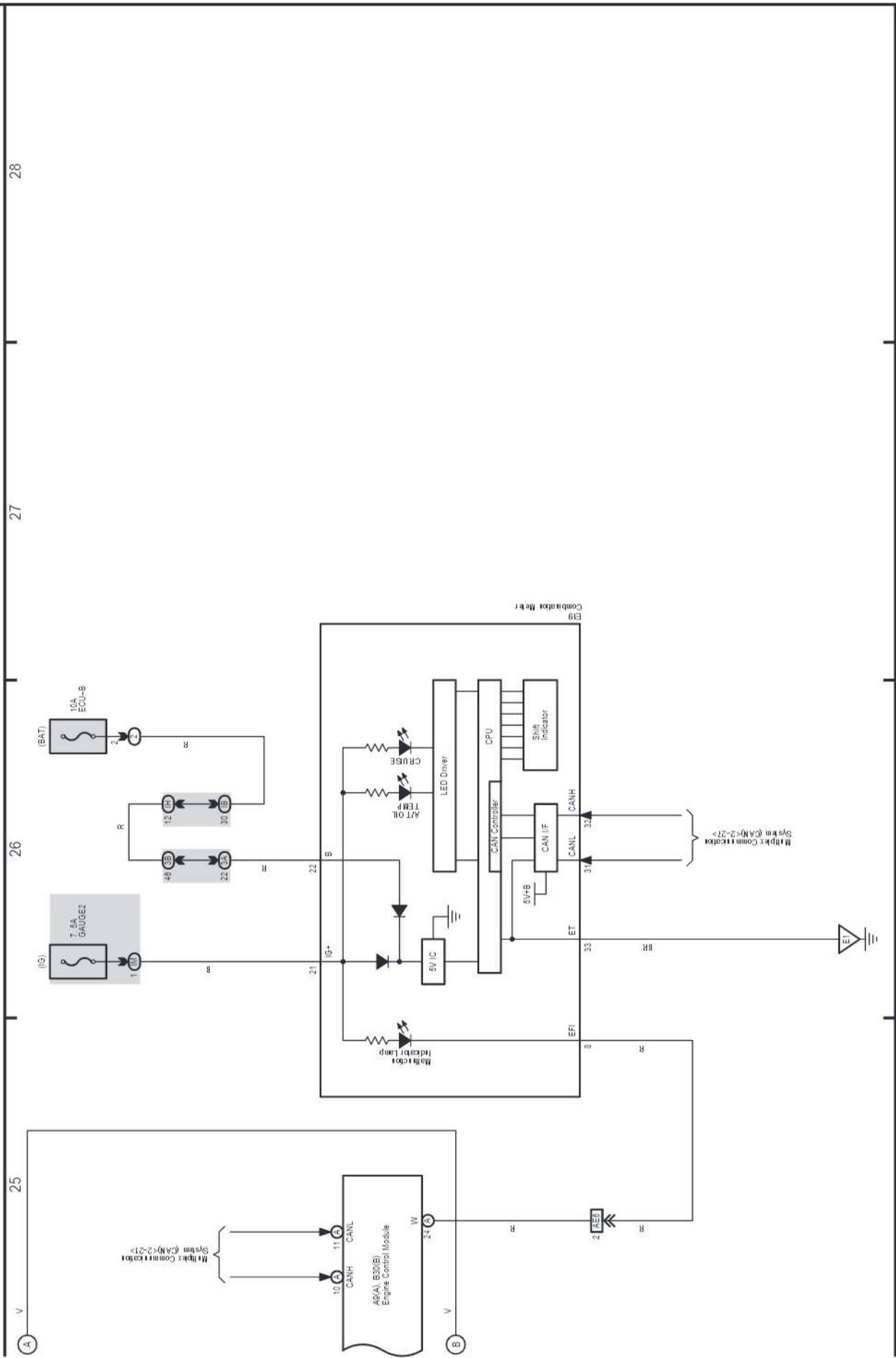




M OVERALL ELECTRICAL WIRING DIAGRAM

7 RAV4 (Cont' d)

Electronically Controlled Transmission and A/T Indicator (2GR-FE)



RAV4 (EM16B0U)

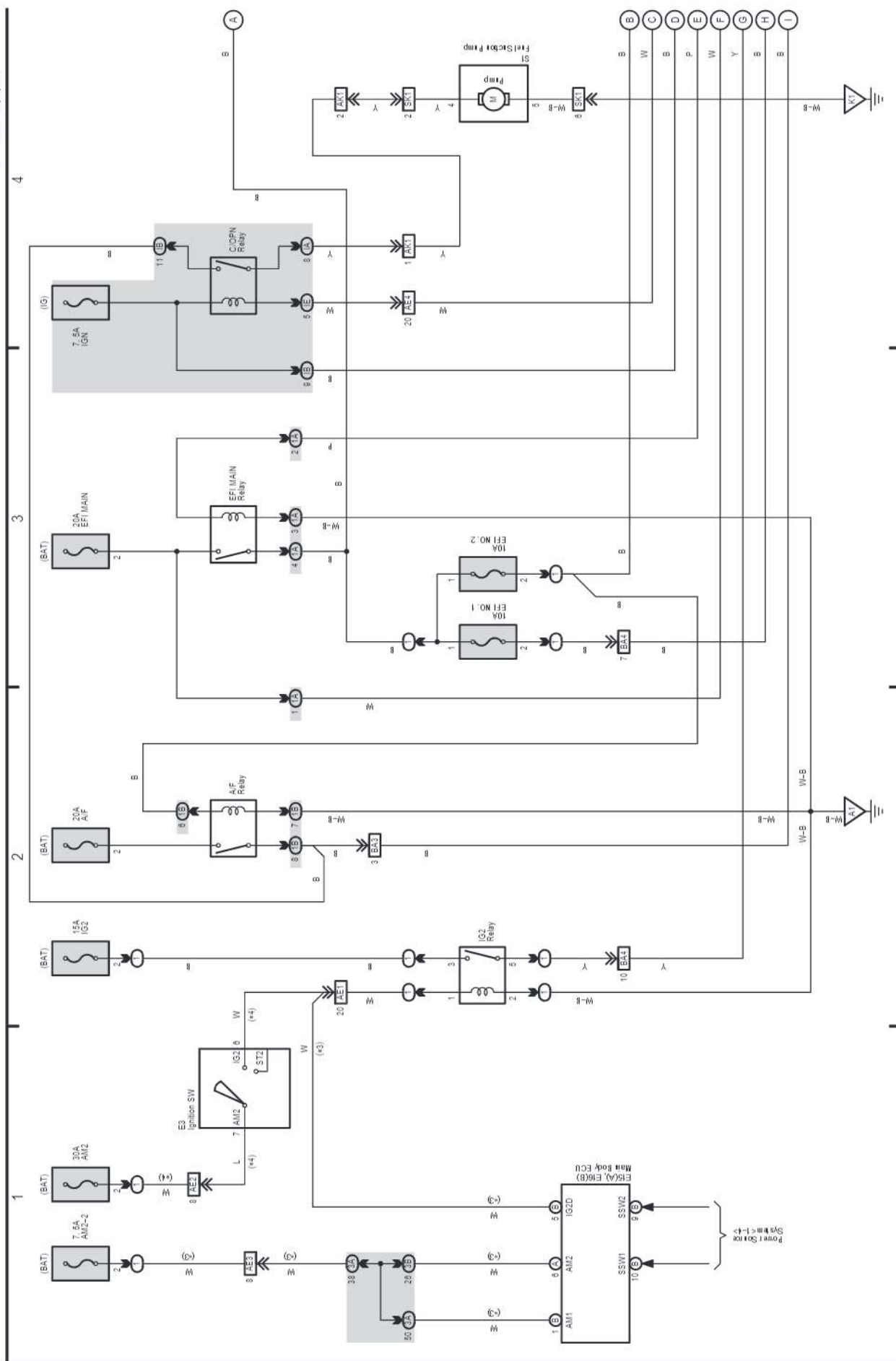
M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

8 RAV4

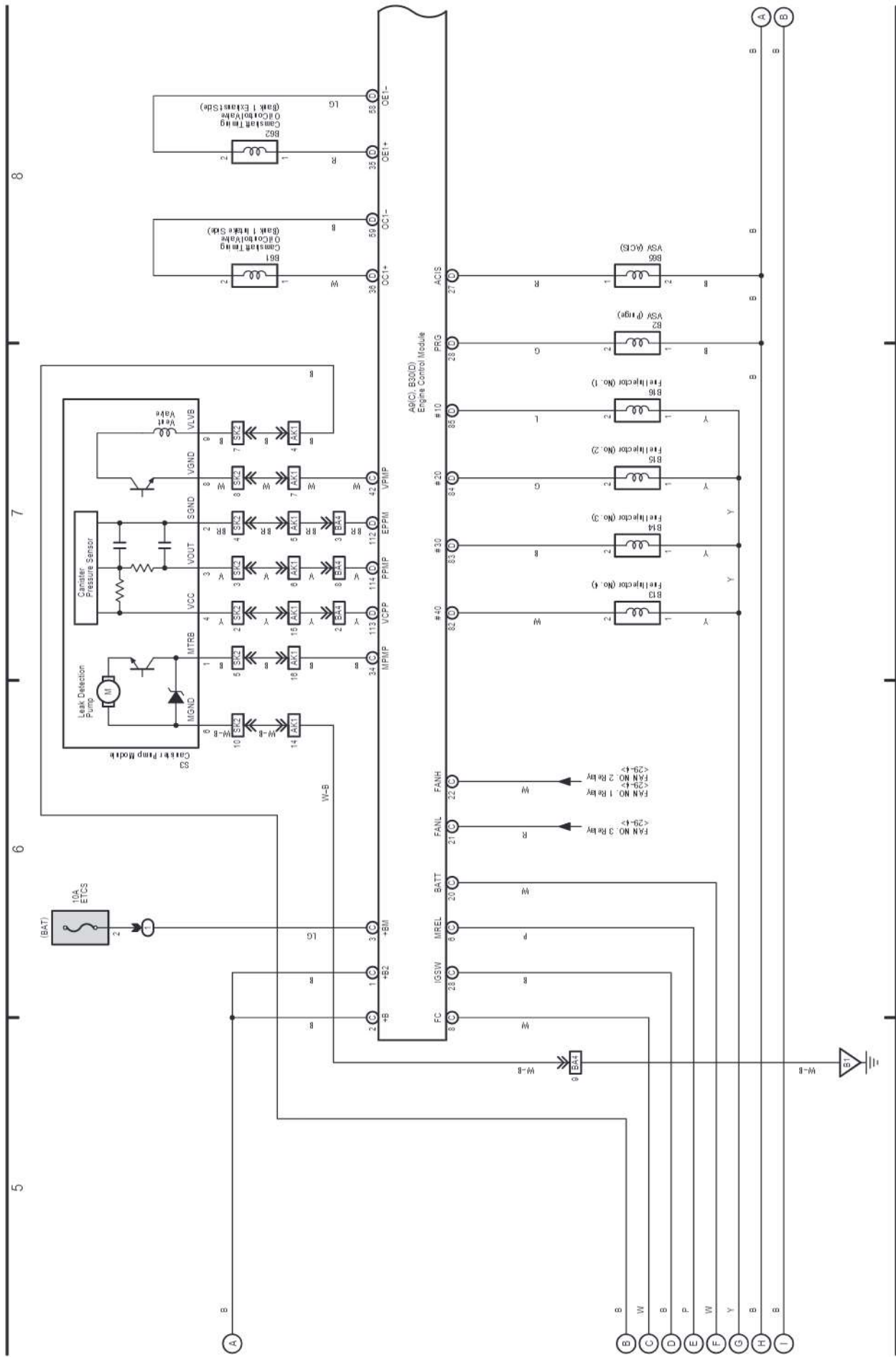
*3 : w/ Smart Key System
*4 : w/o Smart Key System

Engine Control (2AR-FE)

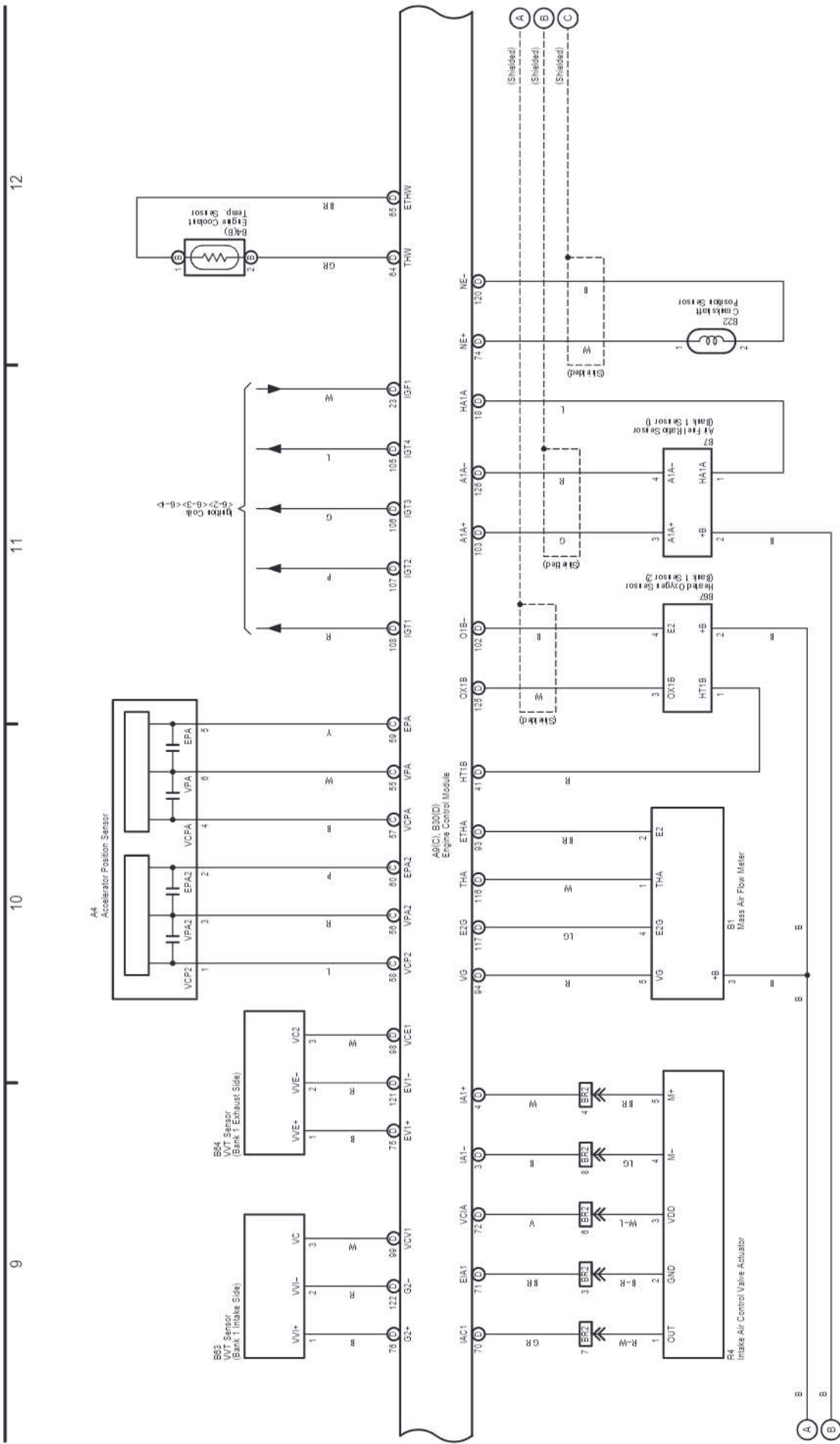


RAV4 (EM16B0U)

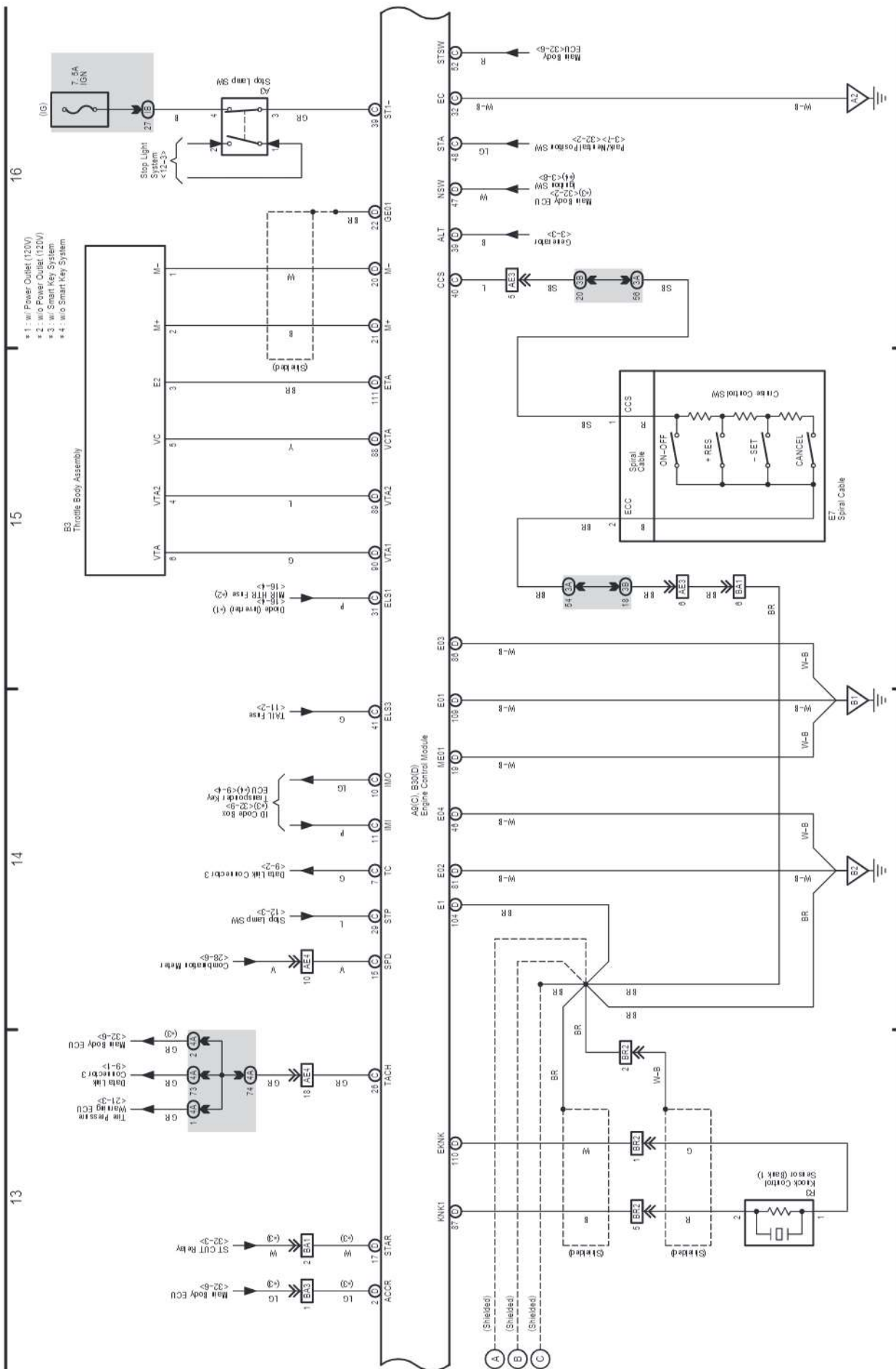
Engine Control (2AR-FE)



Engine Control (2AR-FE)



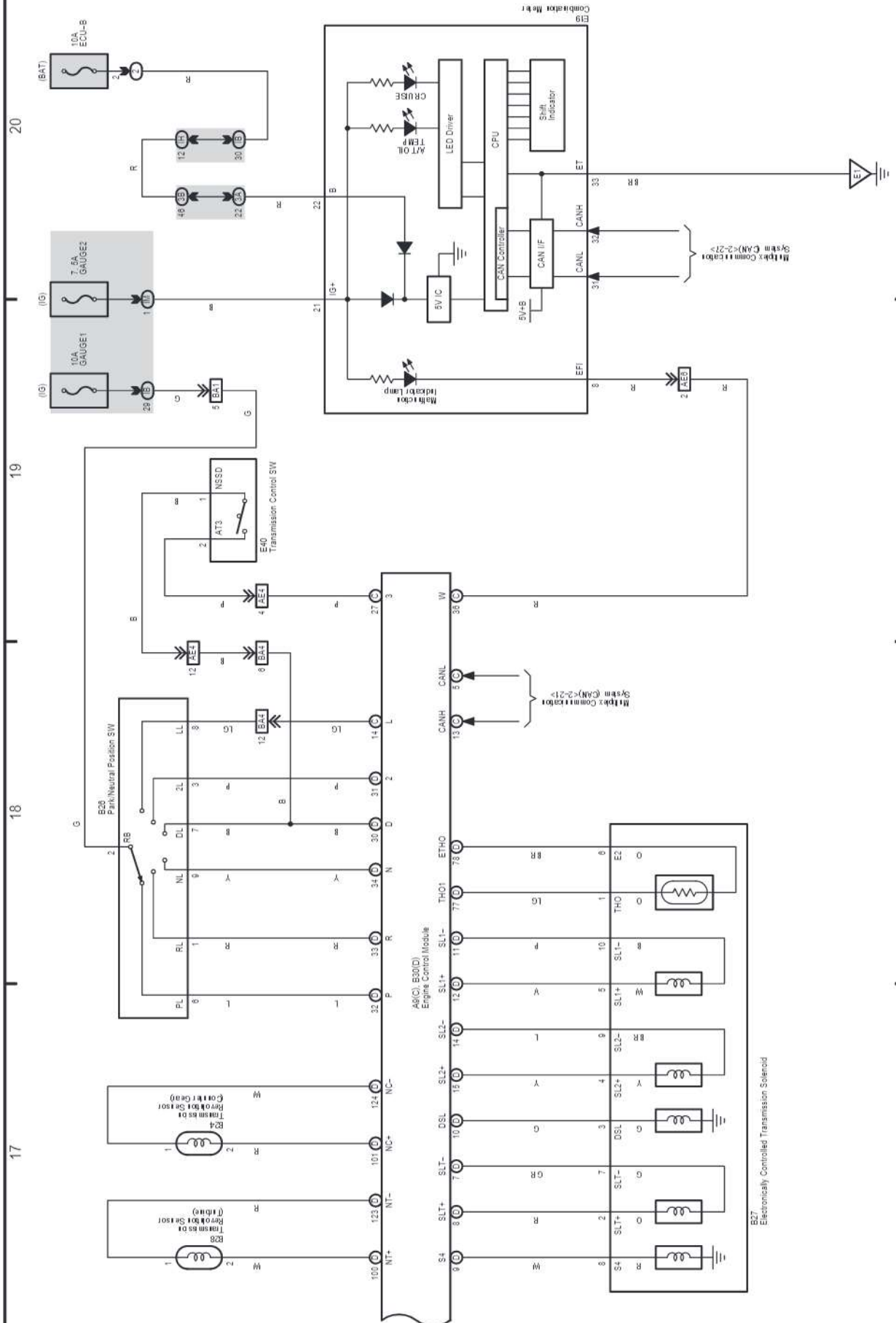
Cruise Control (2AR-FE)



M OVERALL ELECTRICAL WIRING DIAGRAM

8 RAV4 (Cont' d)

Electronically Controlled Transmission and A/T Indicator (2AR-FE)



RAV4 (EM16B0U)

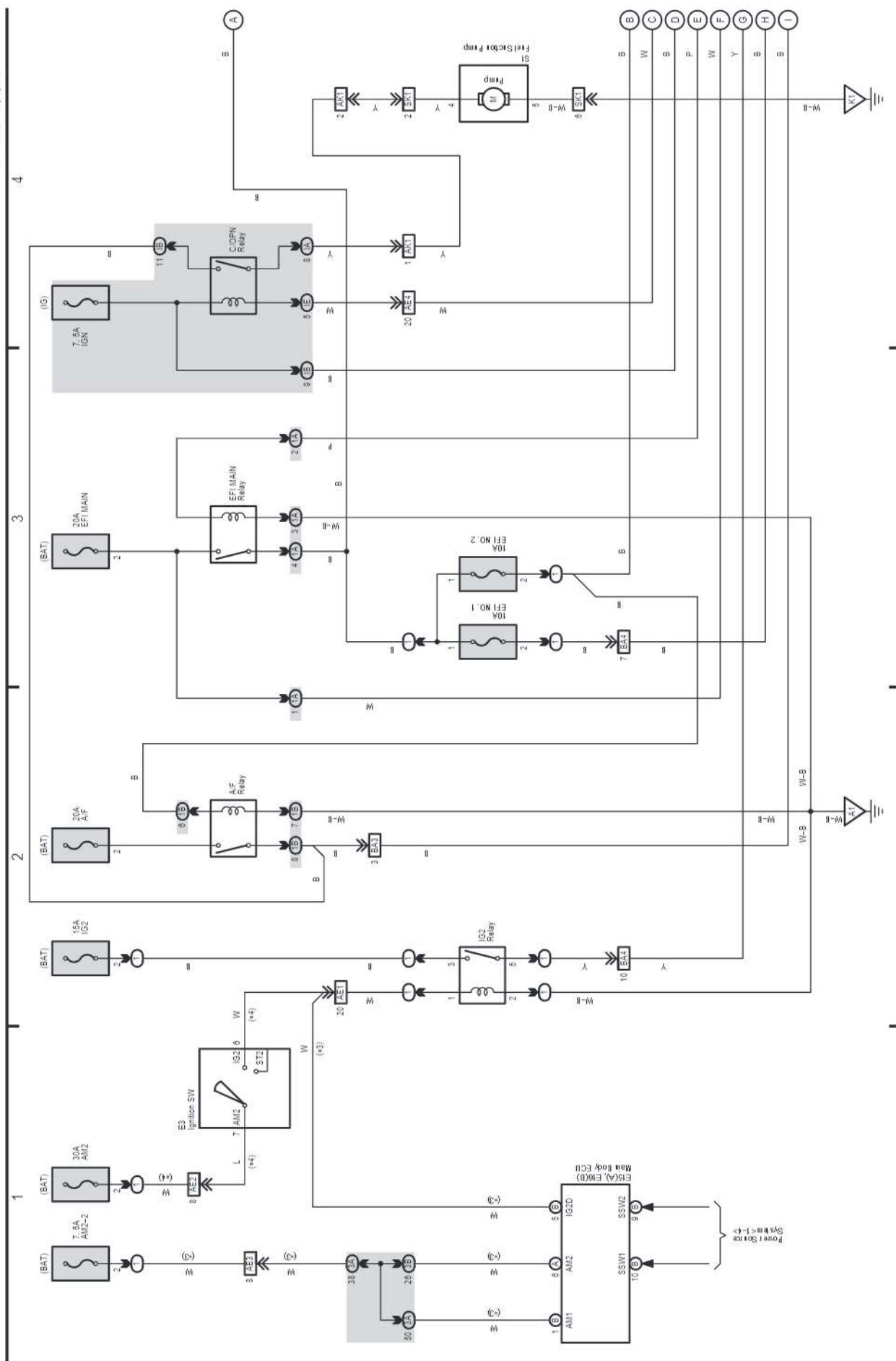
M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

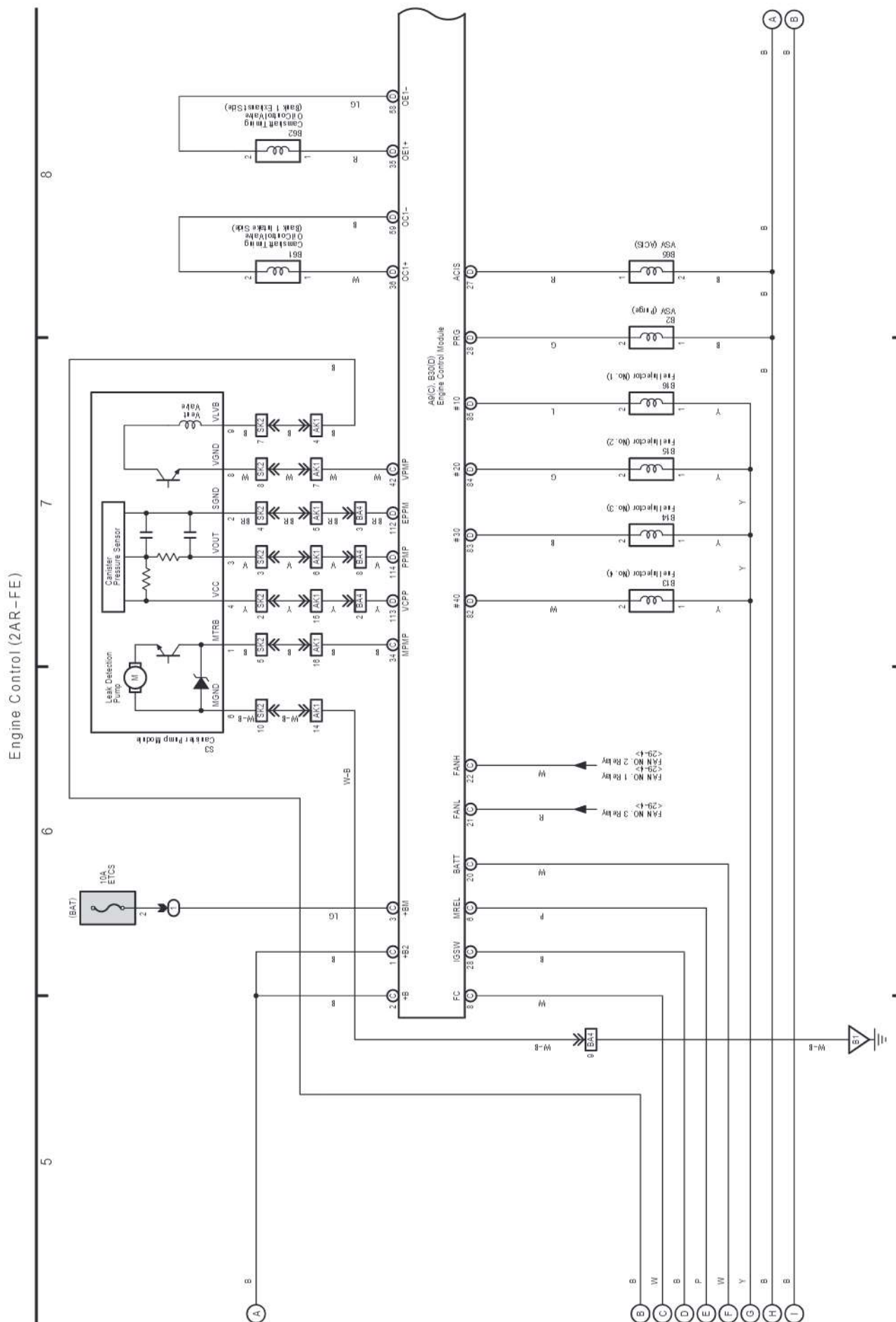
8 RAV4

*3 : w/ Smart Key System
*4 : w/o Smart Key System

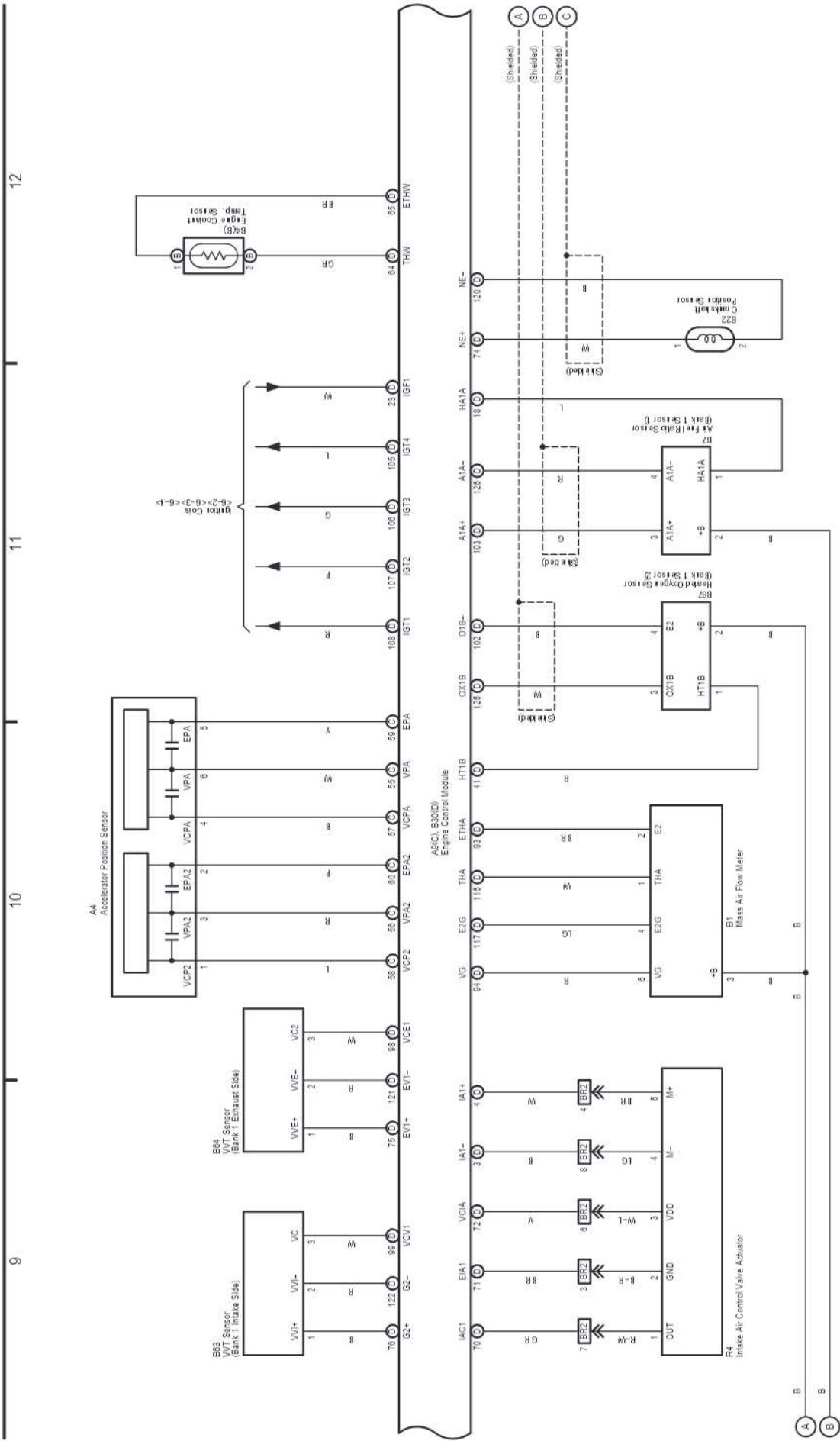
Engine Control (2AR-FE)



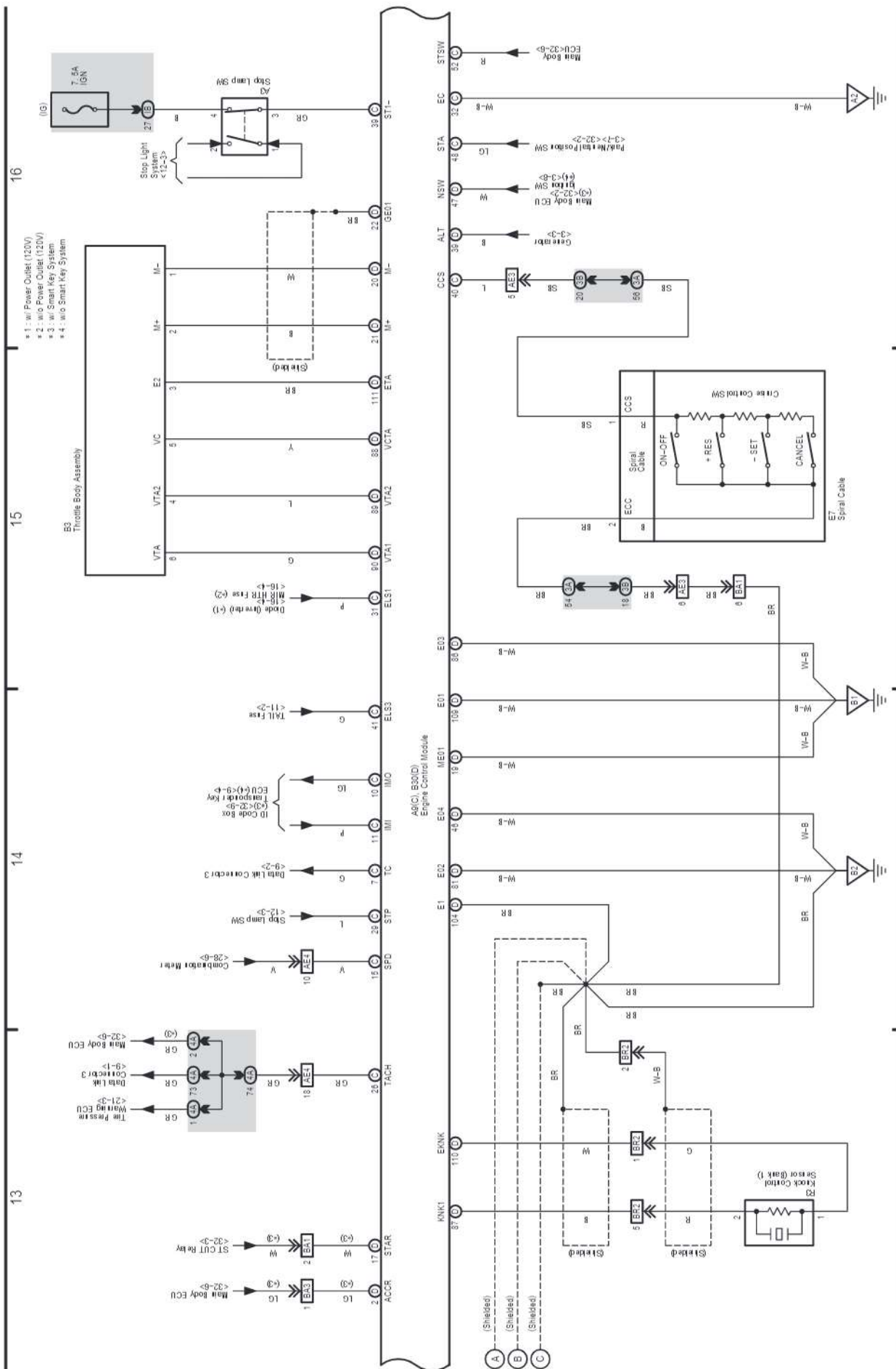
RAV4 (EM16B0U)



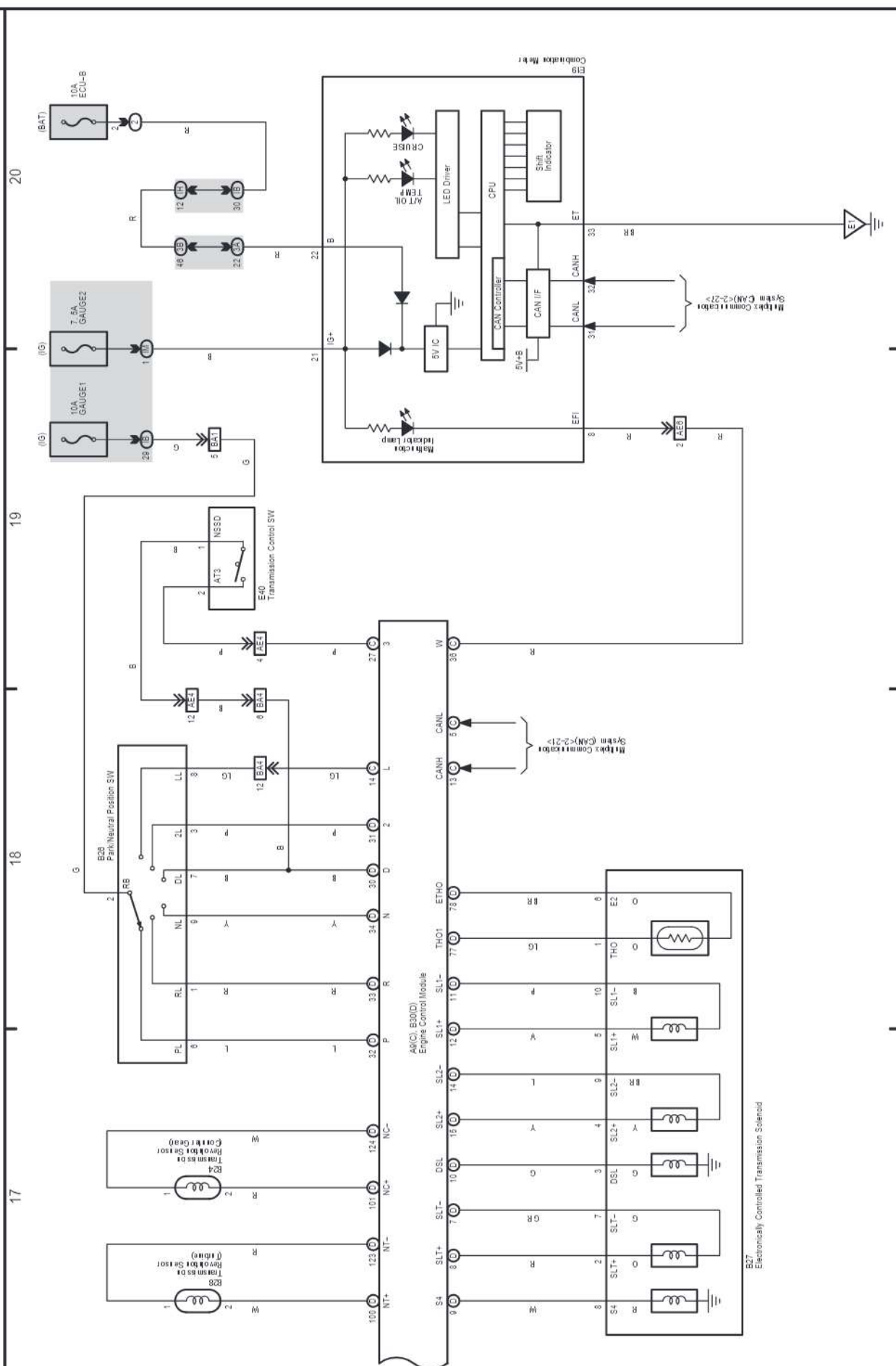
Engine Control (2AR-FE)



Cruise Control (2AR-FE)



8 RAV4 (Cont' d)



RAV4 (EM16B0U)

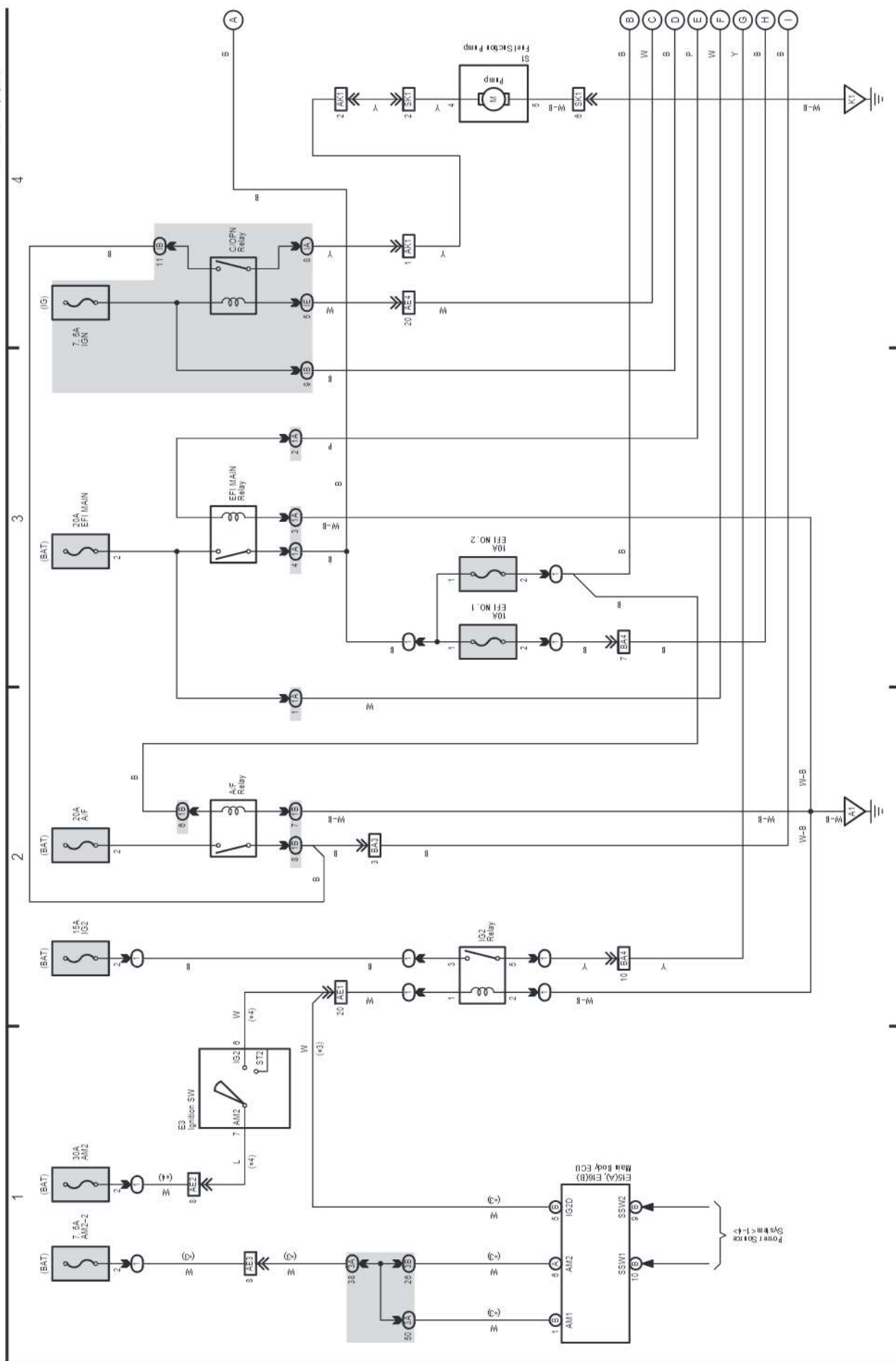
M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

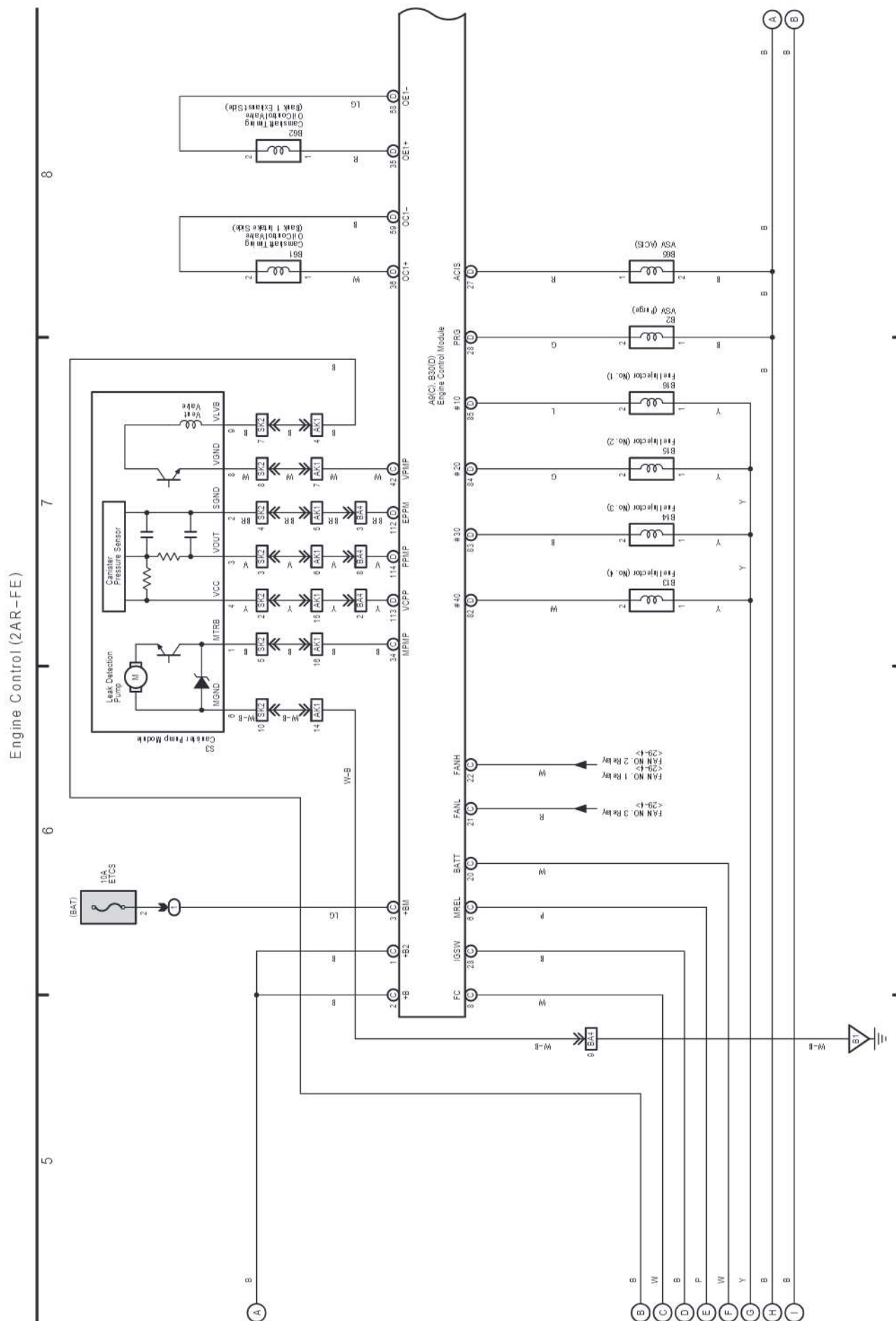
8 RAV4

*3 : w/ Smart Key System
*4 : w/o Smart Key System

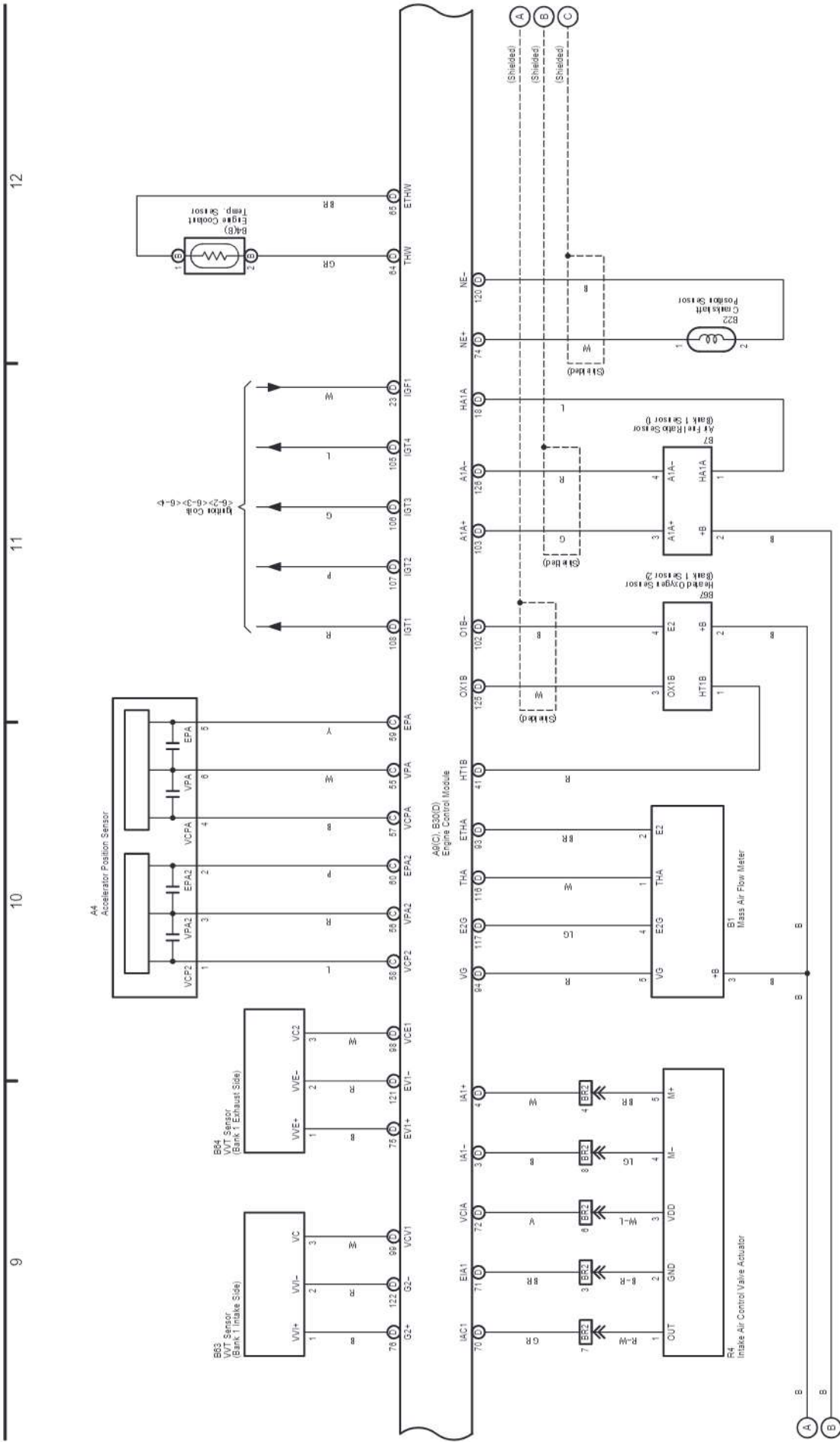
Engine Control (2AR-FE)



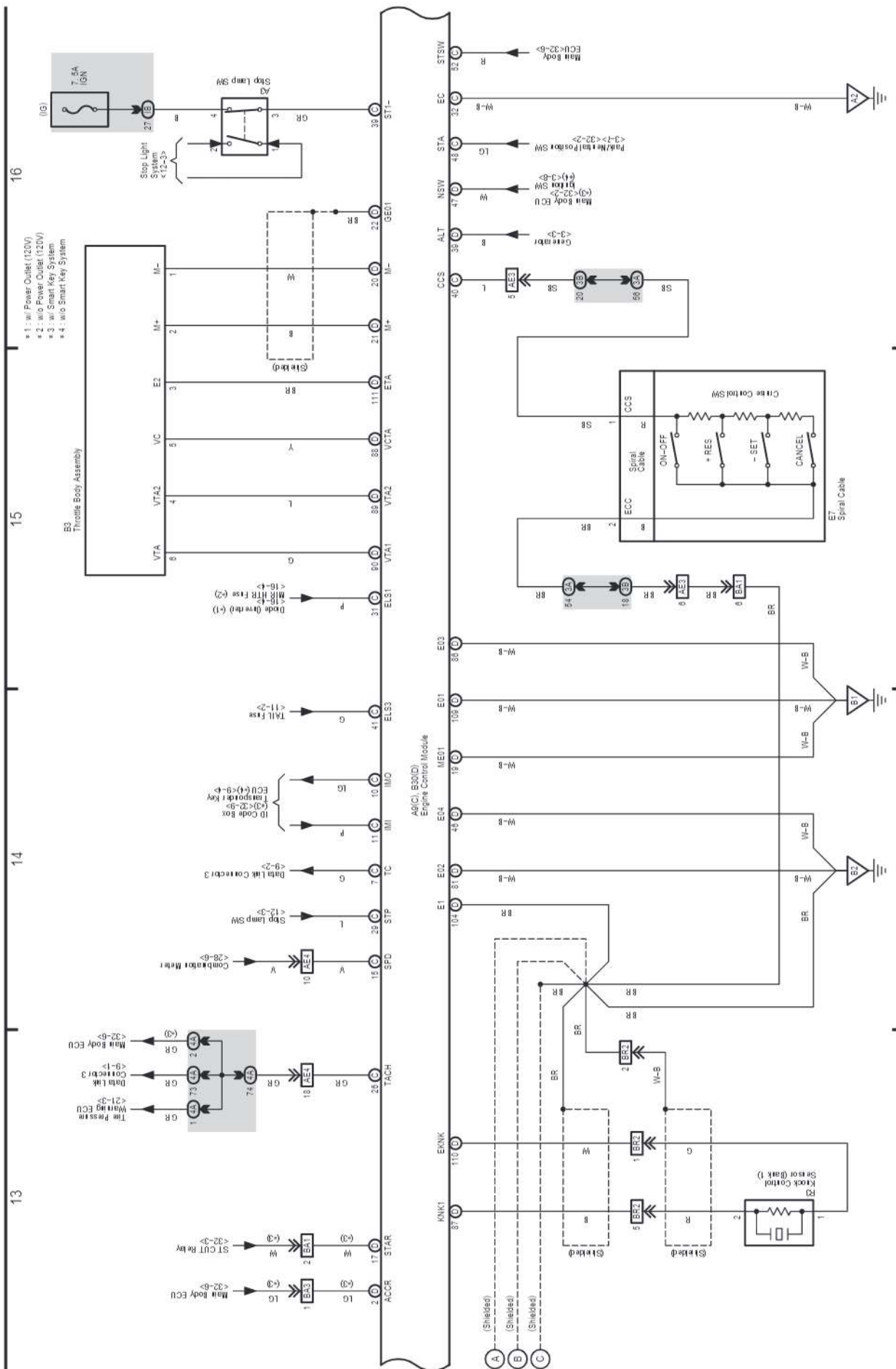
RAV4 (EM16B0U)



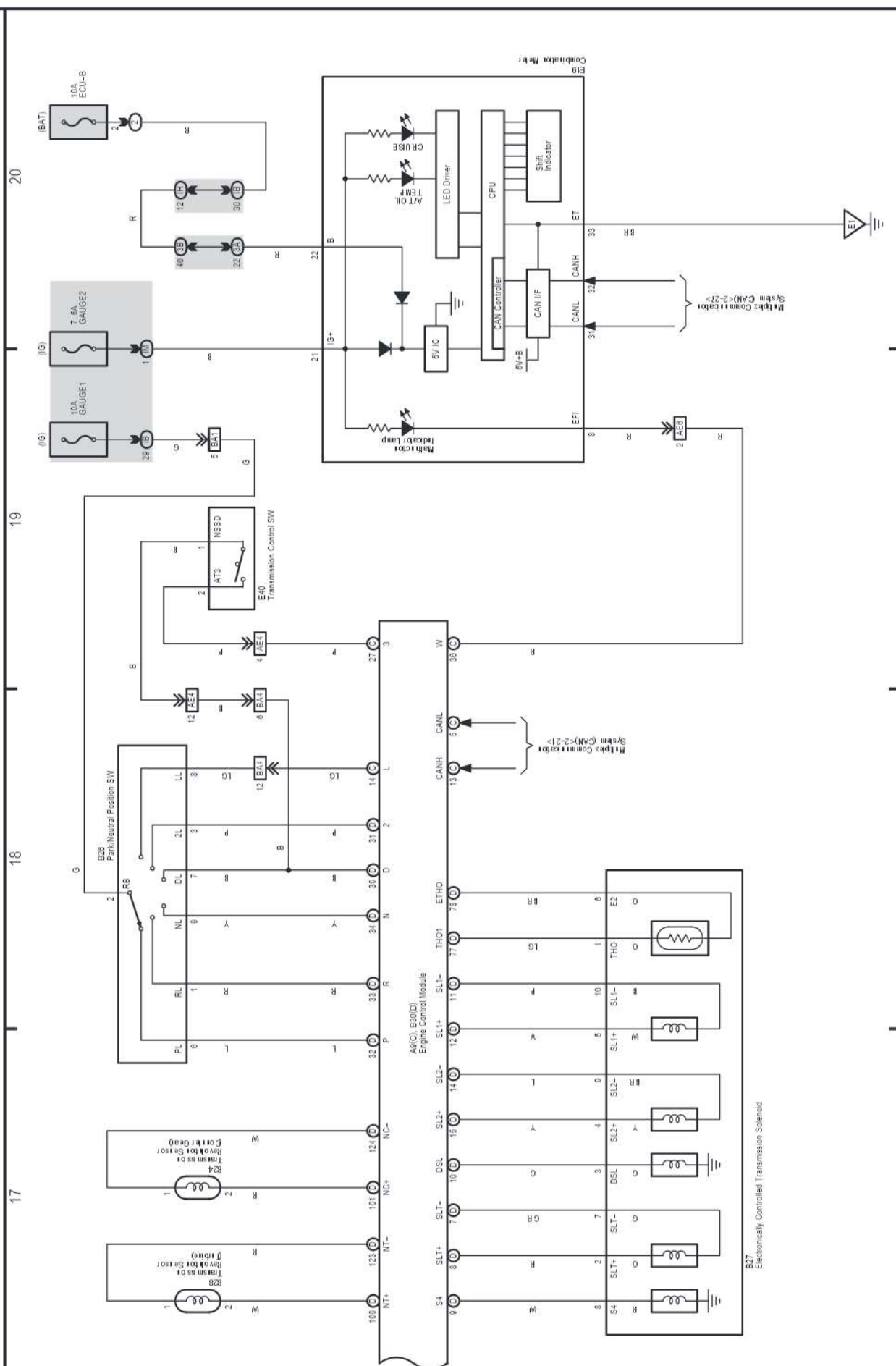
Engine Control (2AR-FE)



Cruise Control (2AR-FE)



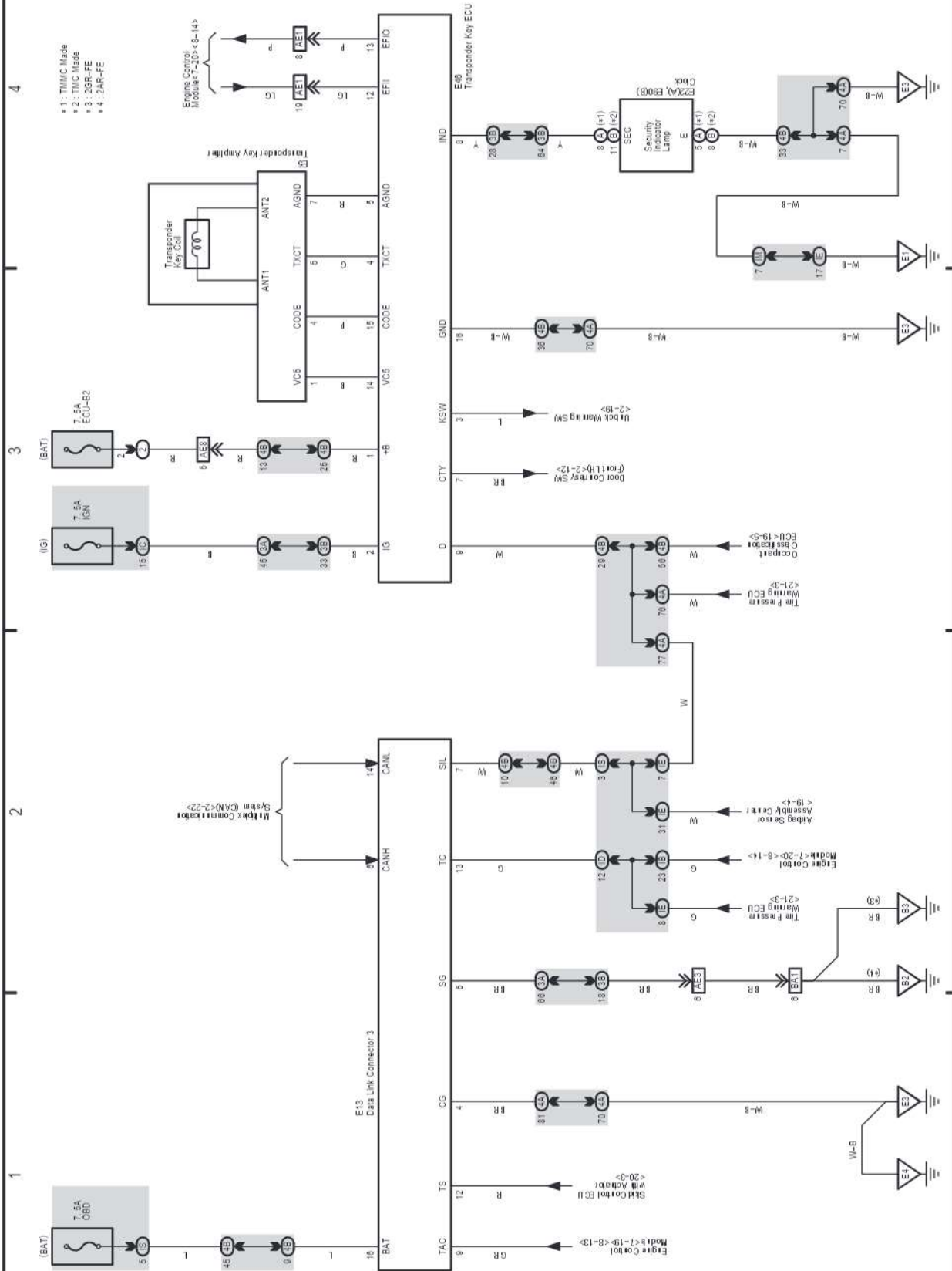
8 RAV4 (Cont' d)



RAV4 (EM16B0U)

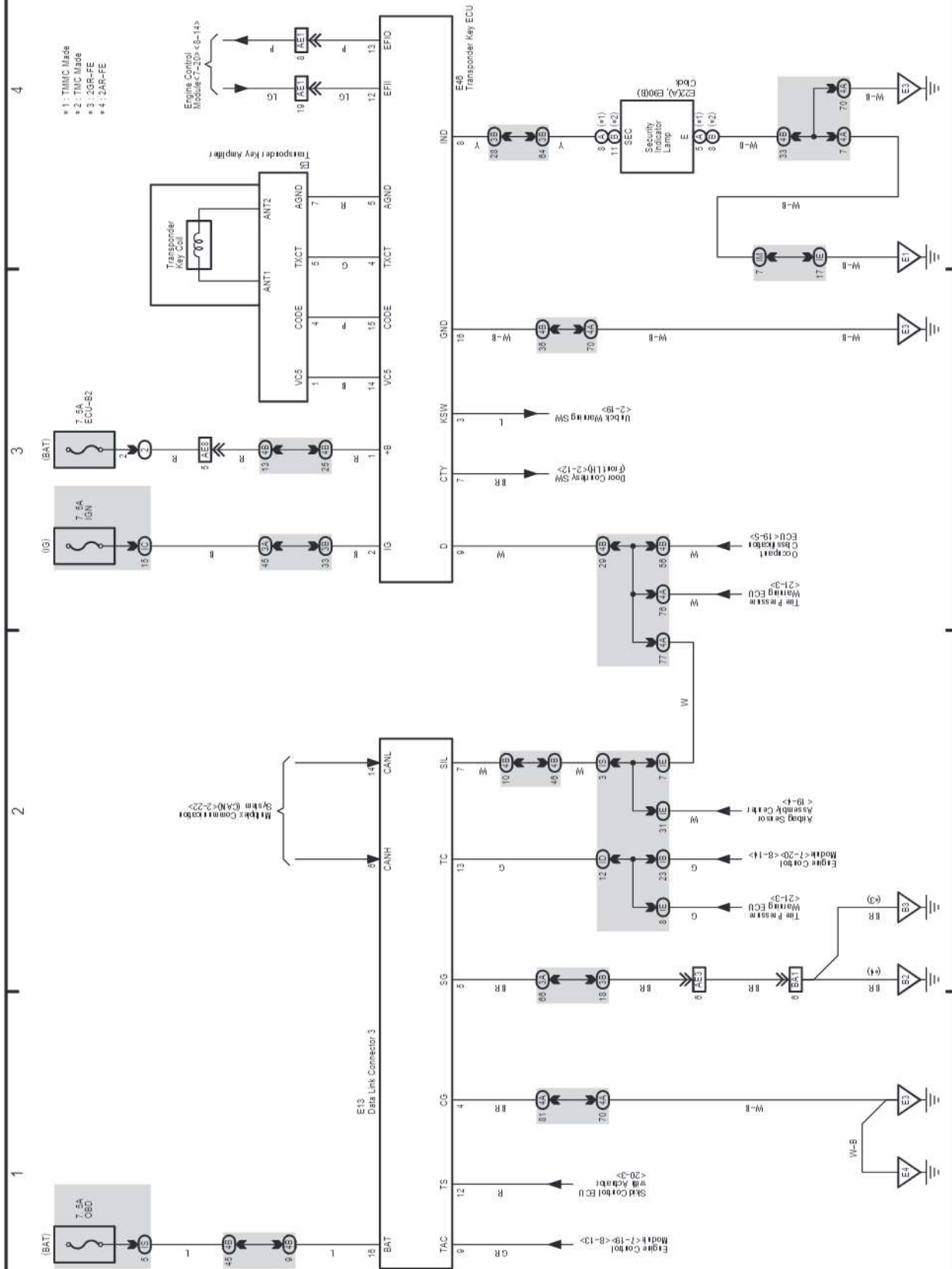
Data Link Connector 3

Engine Immobiliser System (w/o Smart Key System)



Data Link Connector 3

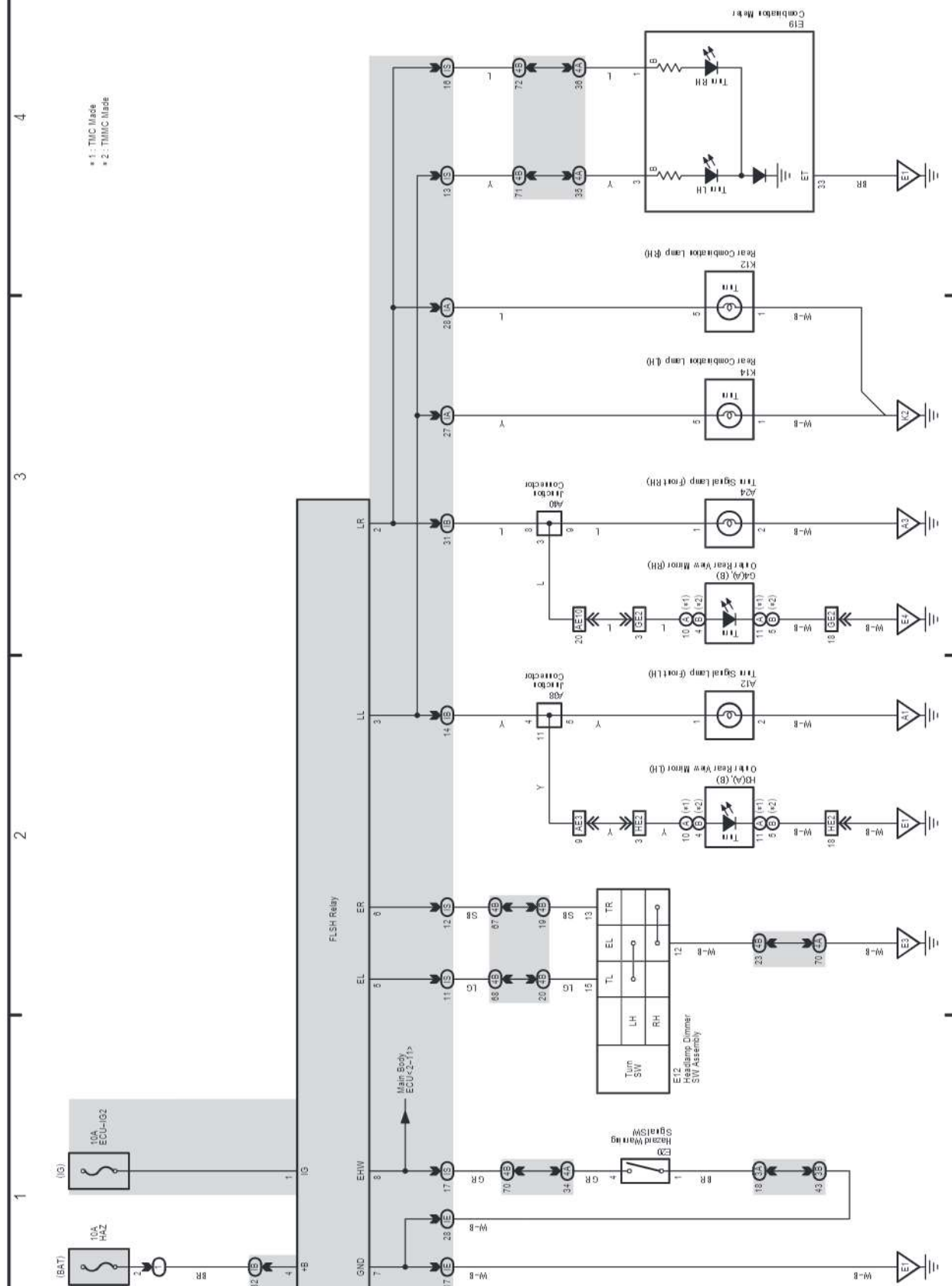
Engine Immobiliser System (w/o Smart Key System)



M OVERALL ELECTRICAL WIRING DIAGRAM

10 RAV4

Turn Signal and Hazard Warning Light

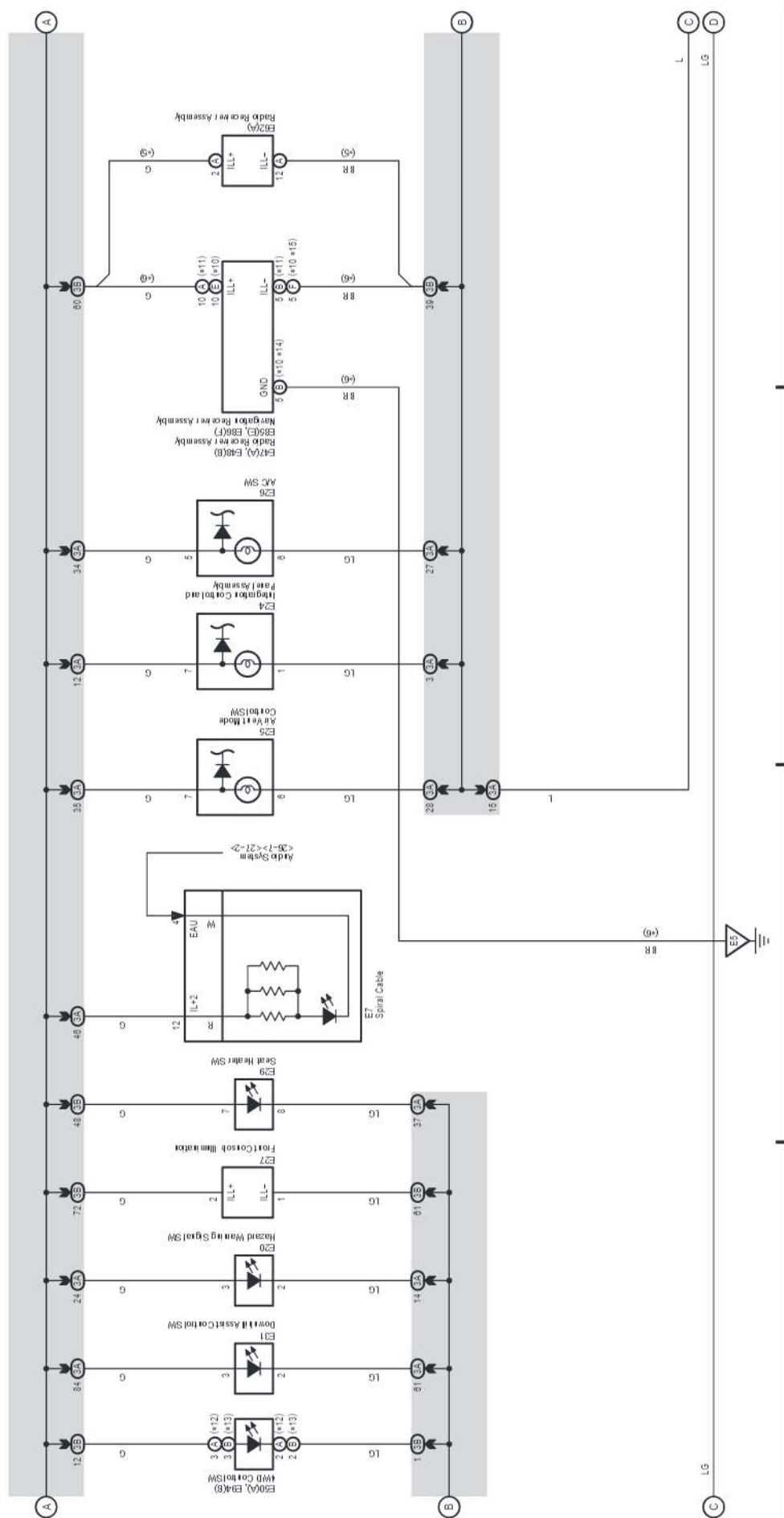


RAV4 (EM16B0U)

11 RAV4



A vertical number line with tick marks at 5, 6, 7, and 8.



11 RAV4 (Cont' d)

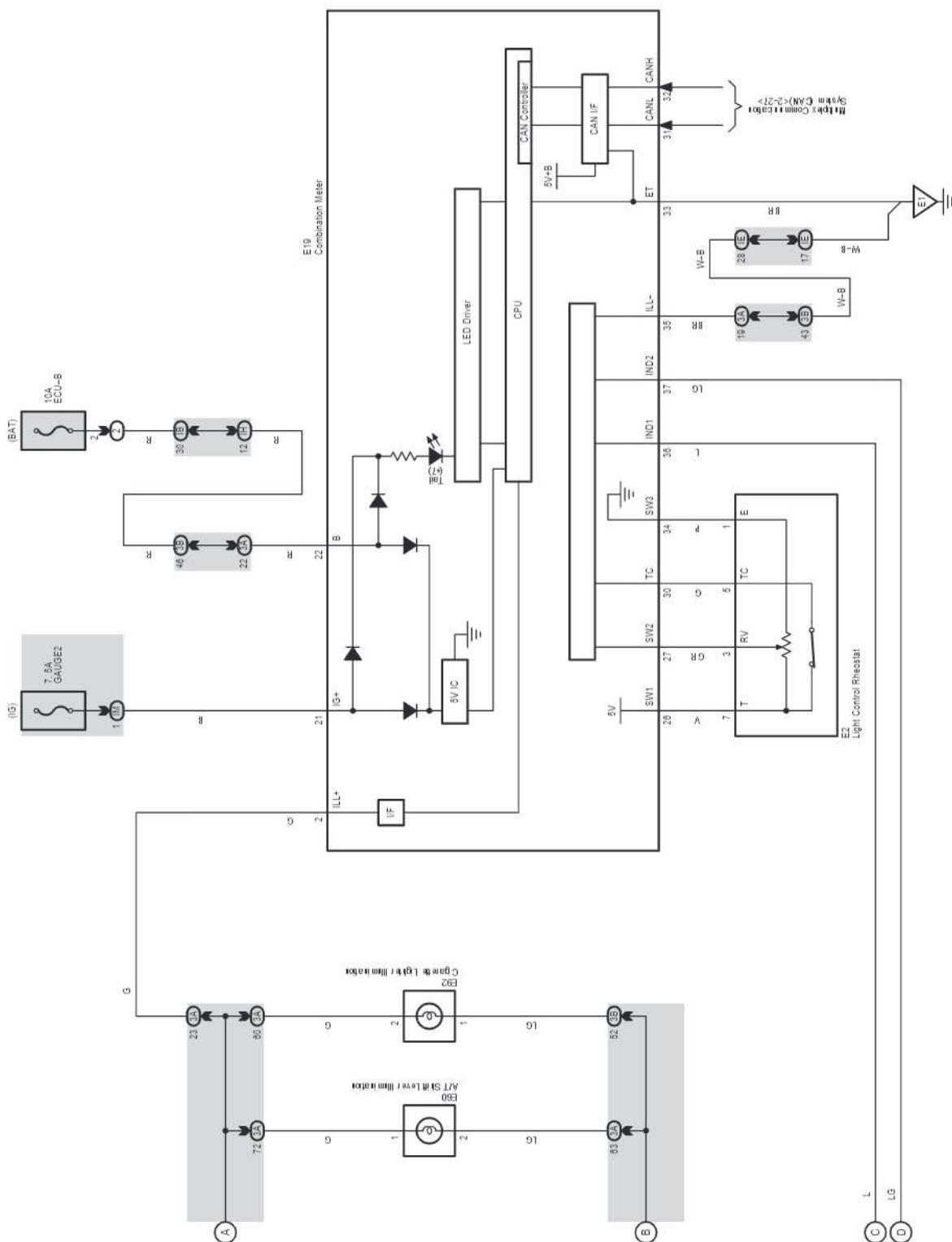


12

11

10

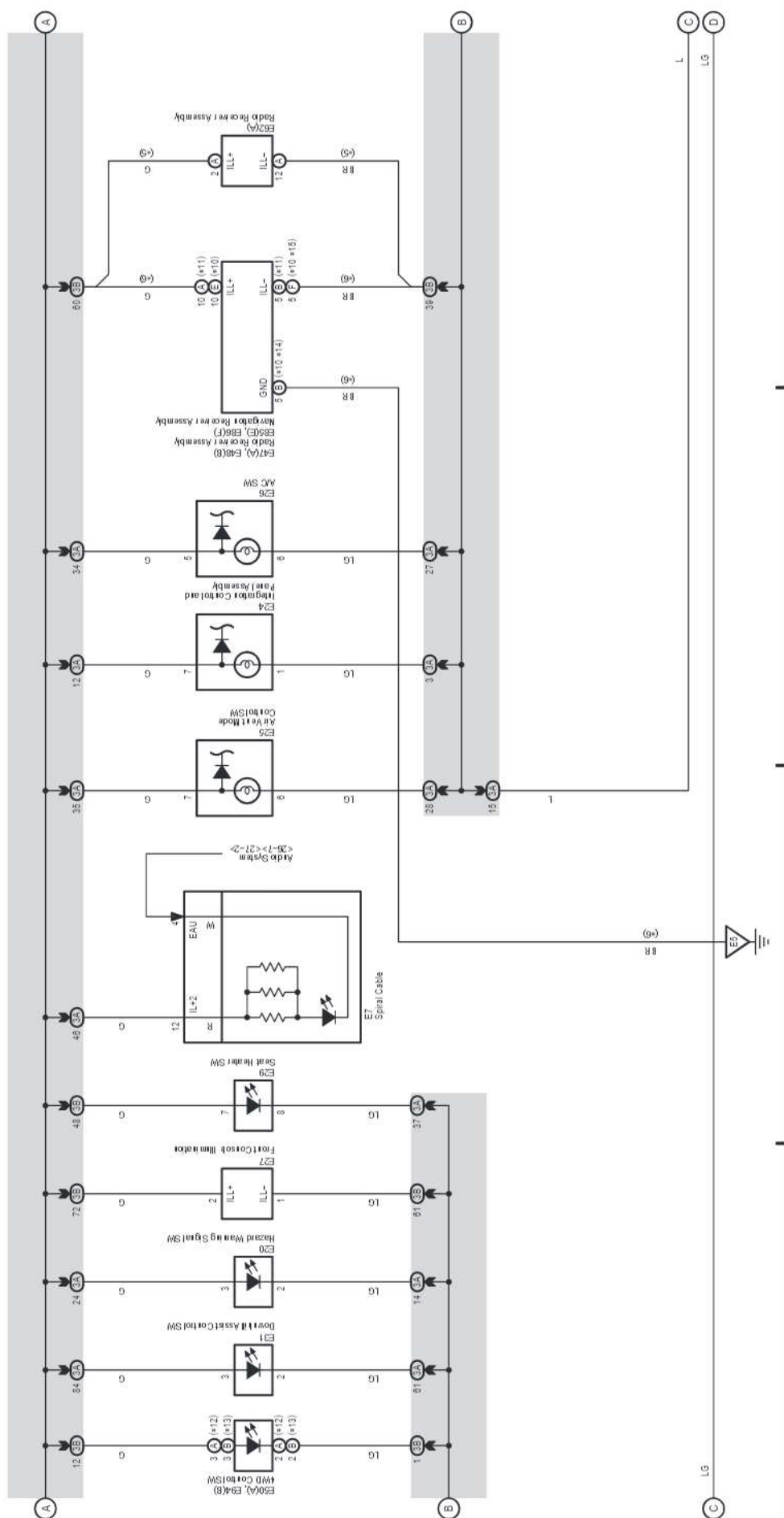
9



RAV4 (EM16B0U)

11 RAV4





11 RAV4 (Cont' d)

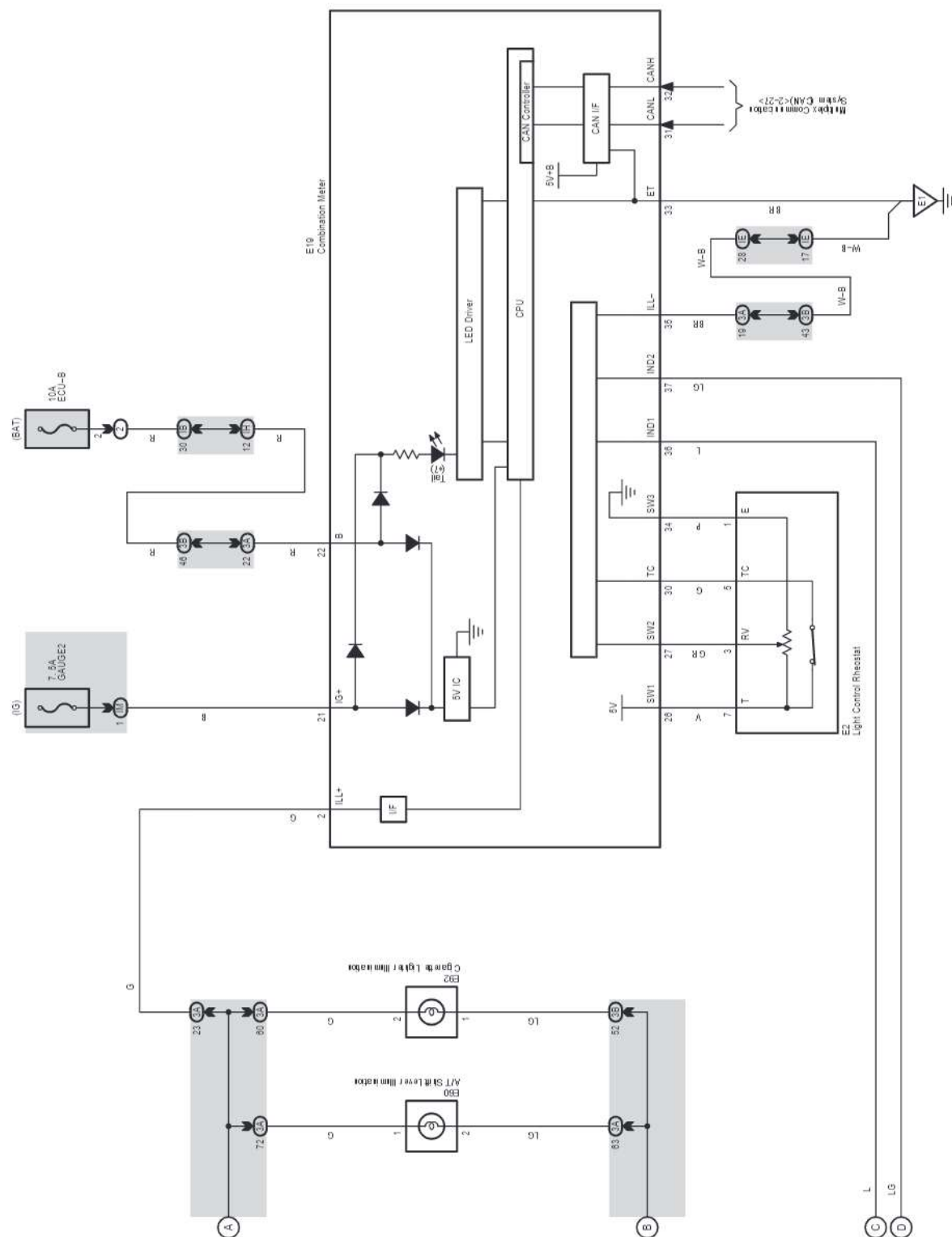


12

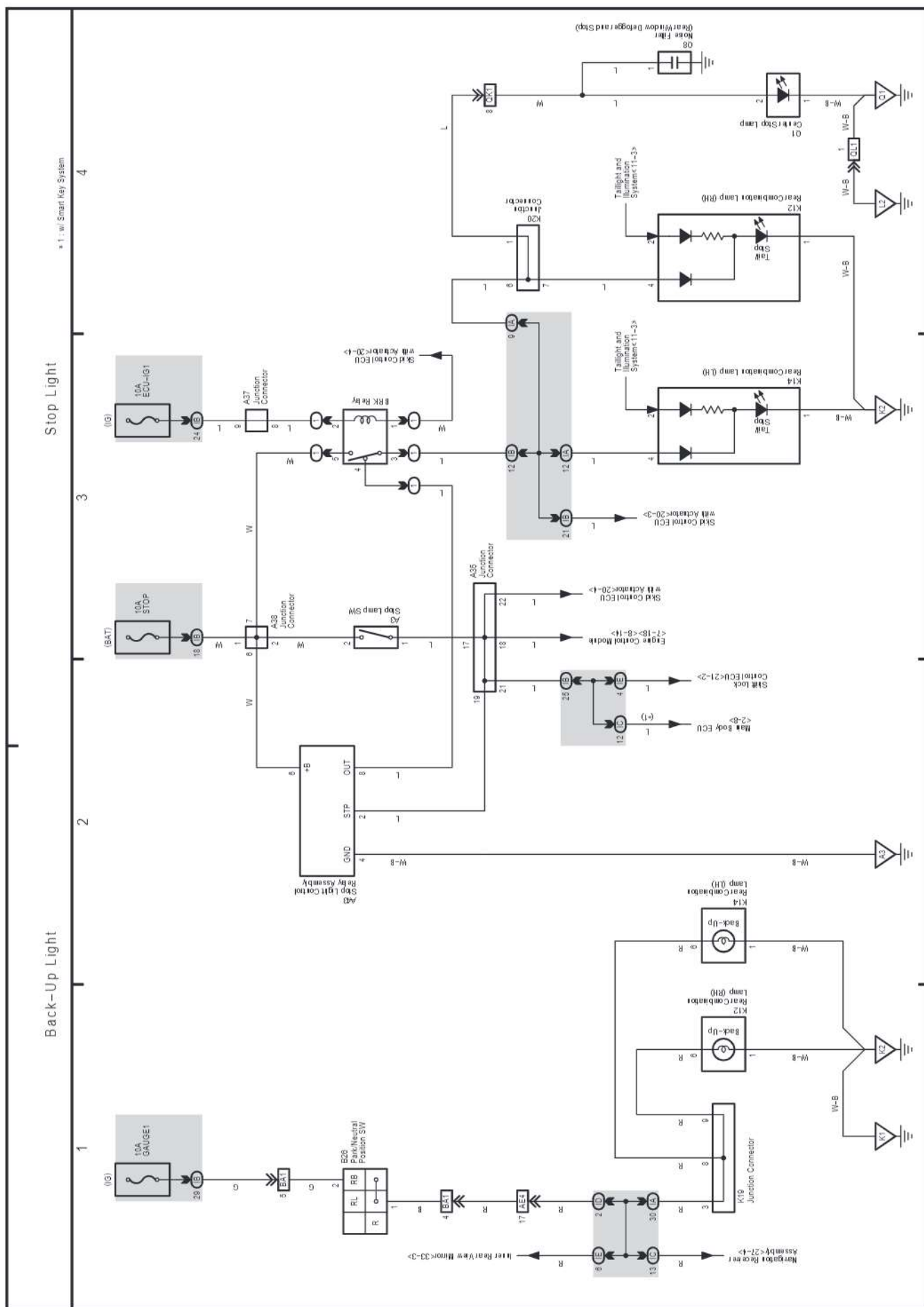
11

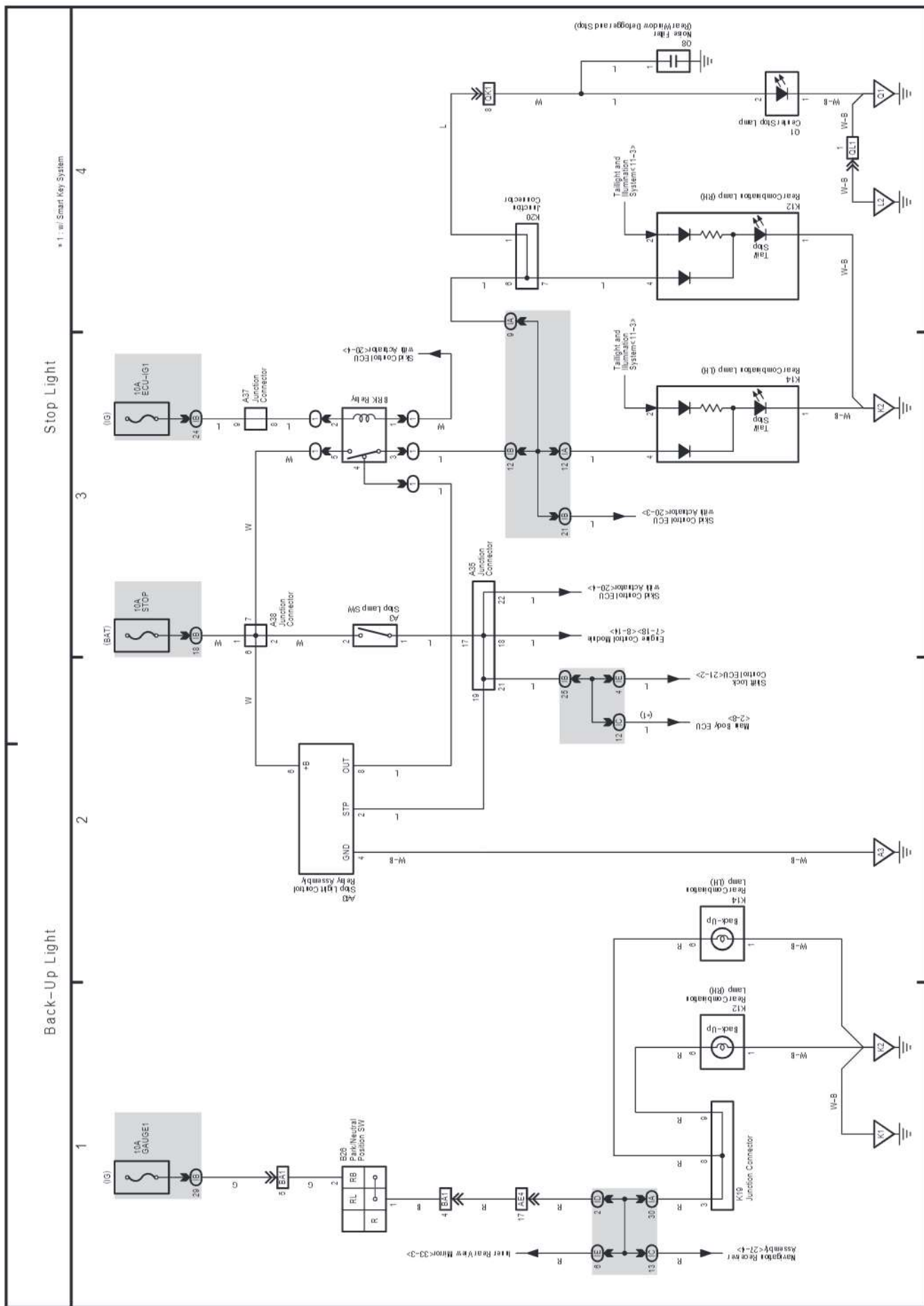
10

9



RAV4 (EM16B0U)







13 RAV4 (Cont'd)

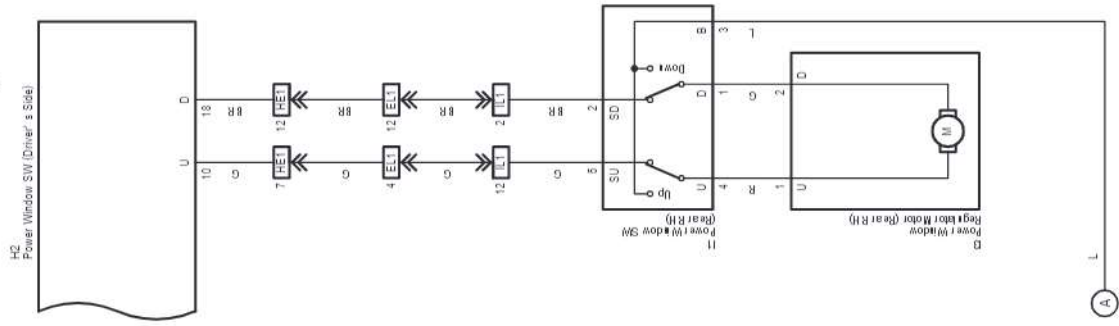
Power Window

8

7

6

5



14 RAV4

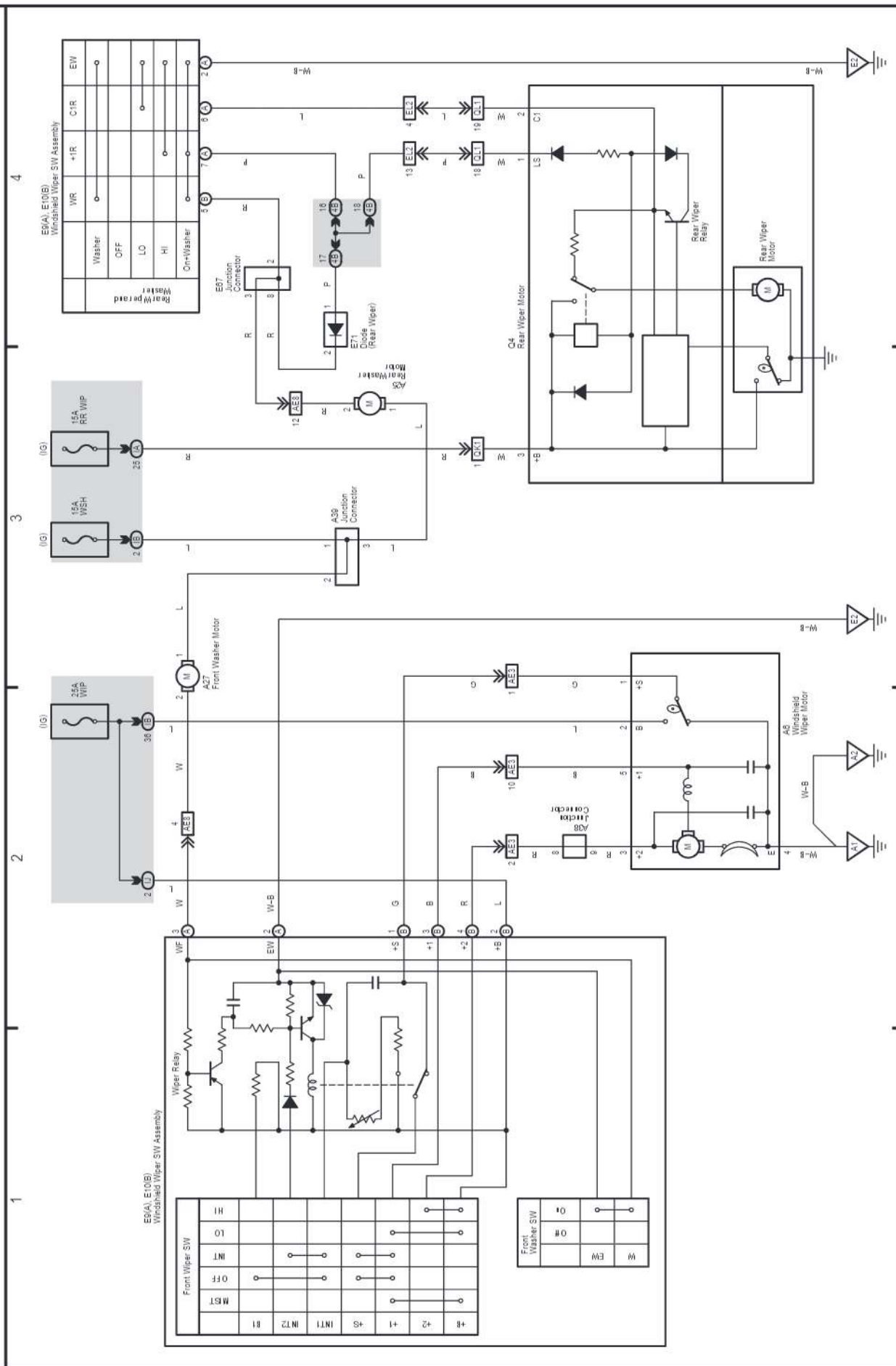


14 RAV4



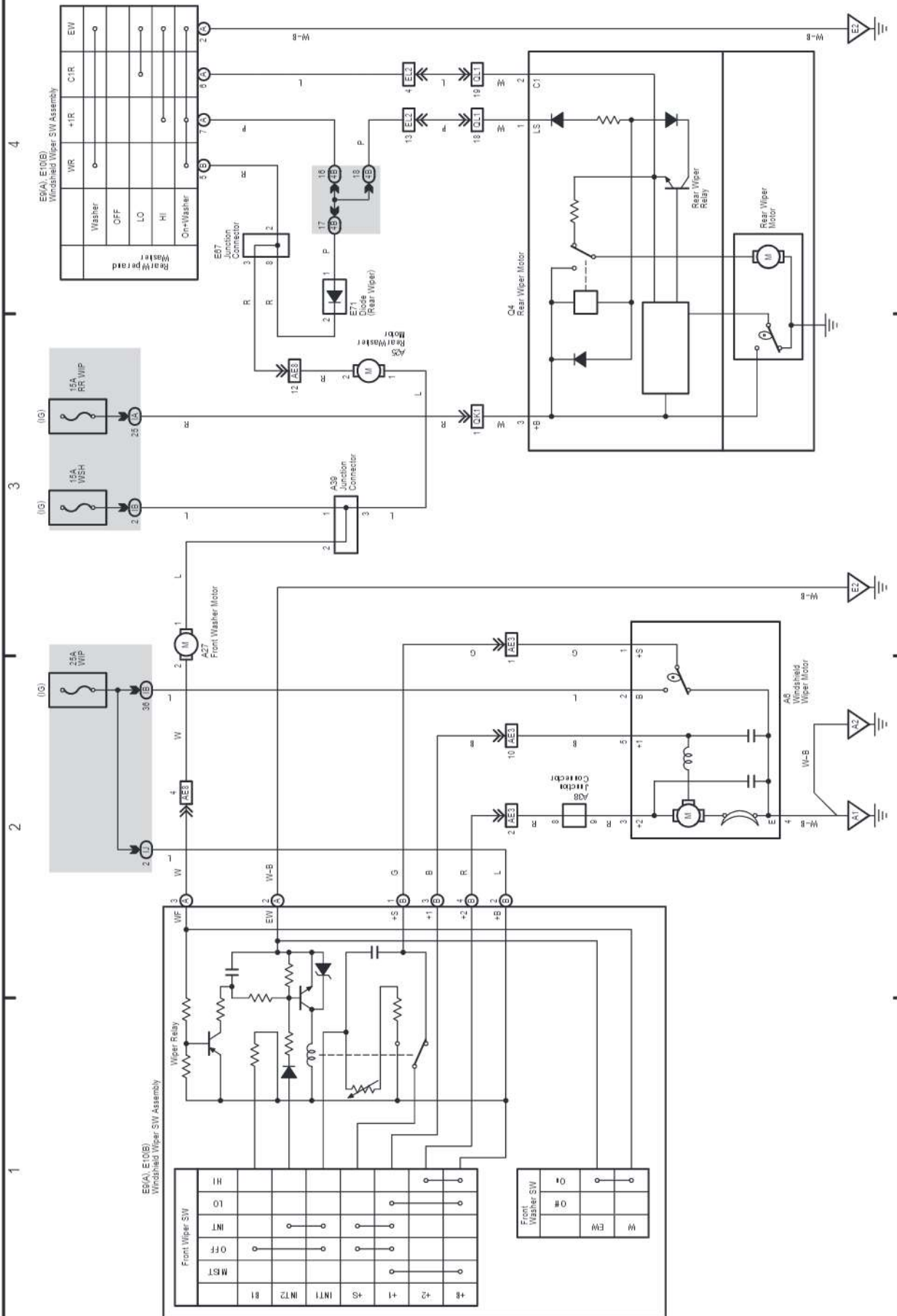
Front Wiper and Washer

Rear Wiper and Washer



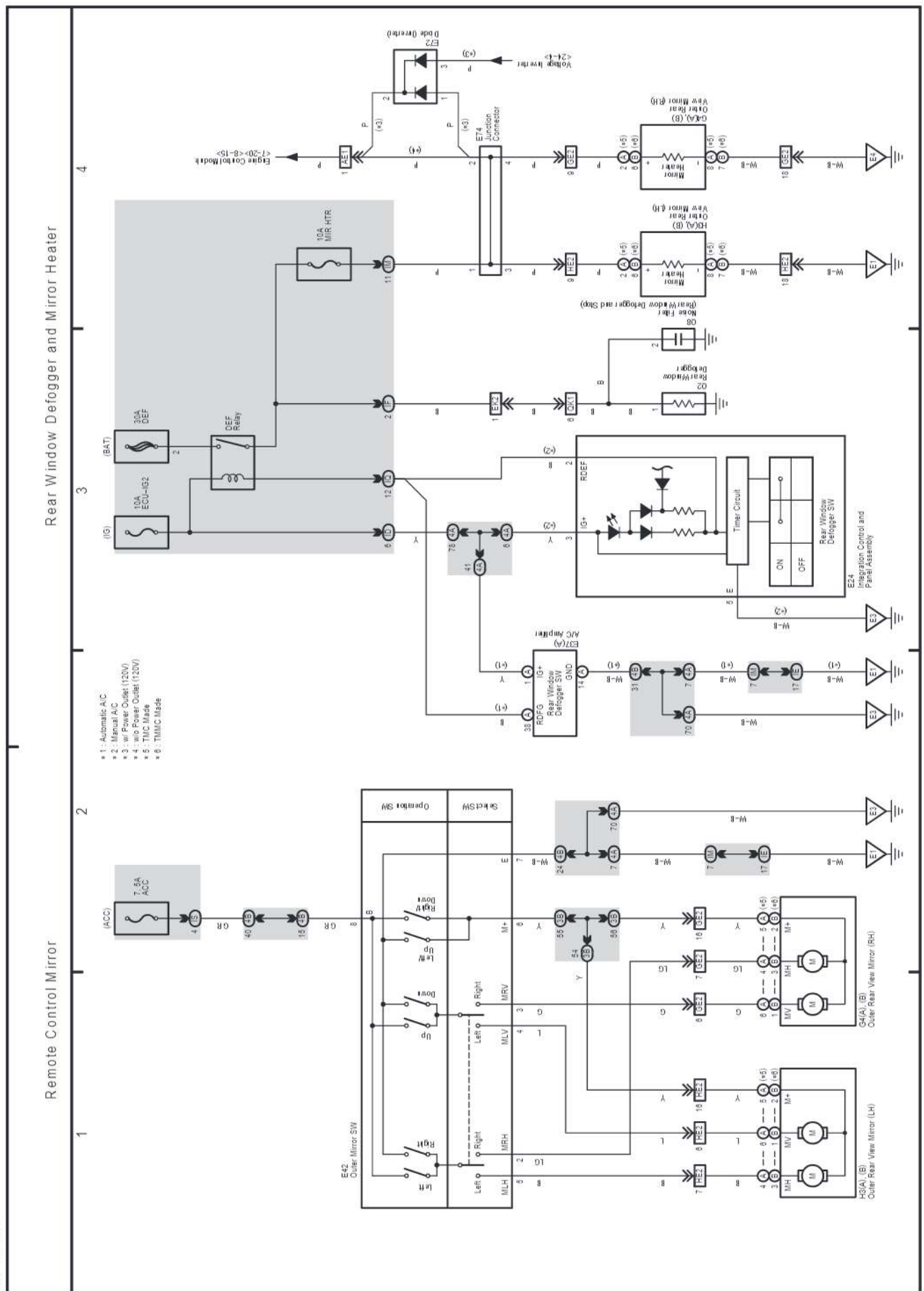
Front Wiper and Washer

Rear Wiper and Washer



M OVERALL ELECTRICAL WIRING DIAGRAM

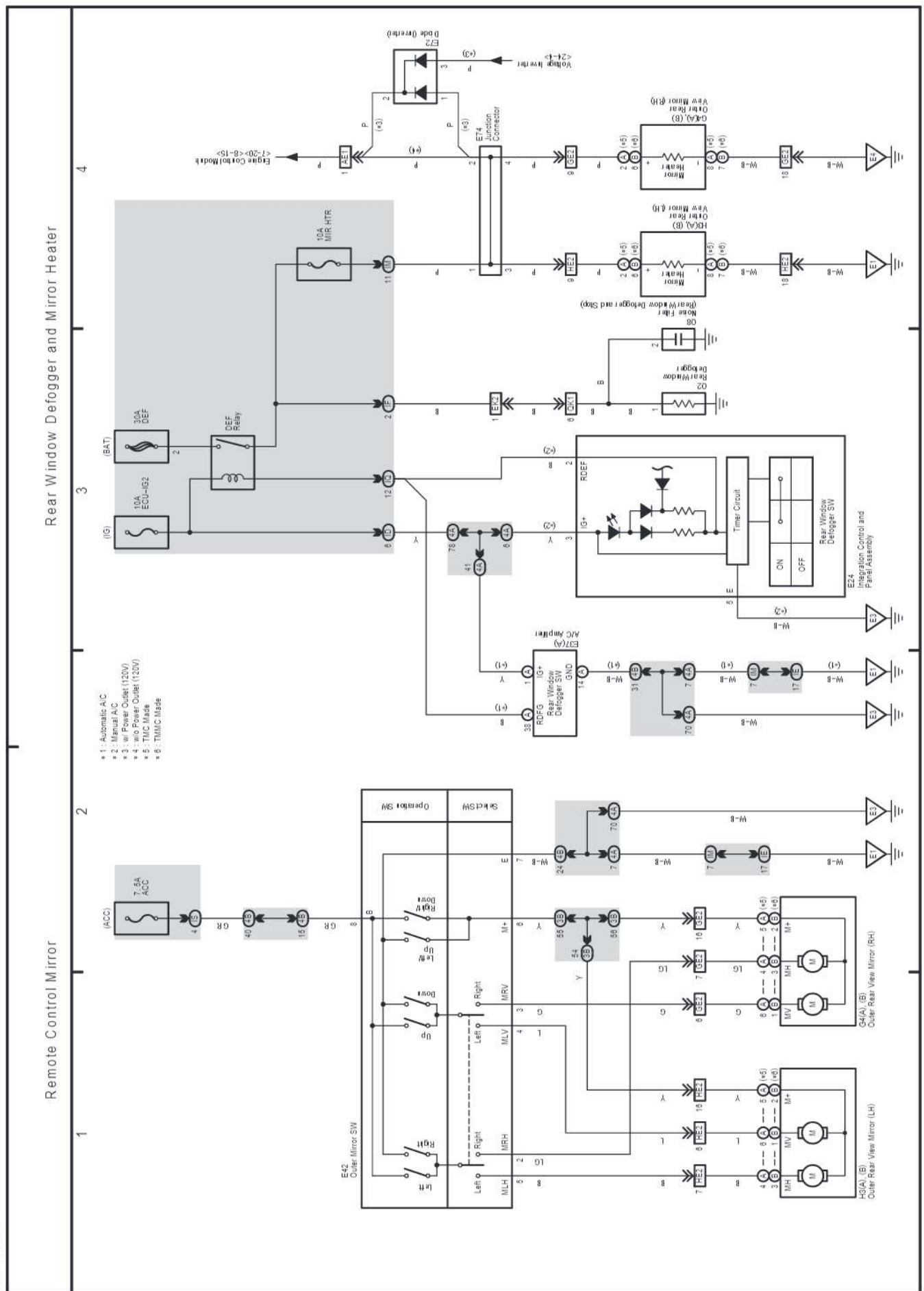
16 RAV4



RAV4 (EM16B0U)

M OVERALL ELECTRICAL WIRING DIAGRAM

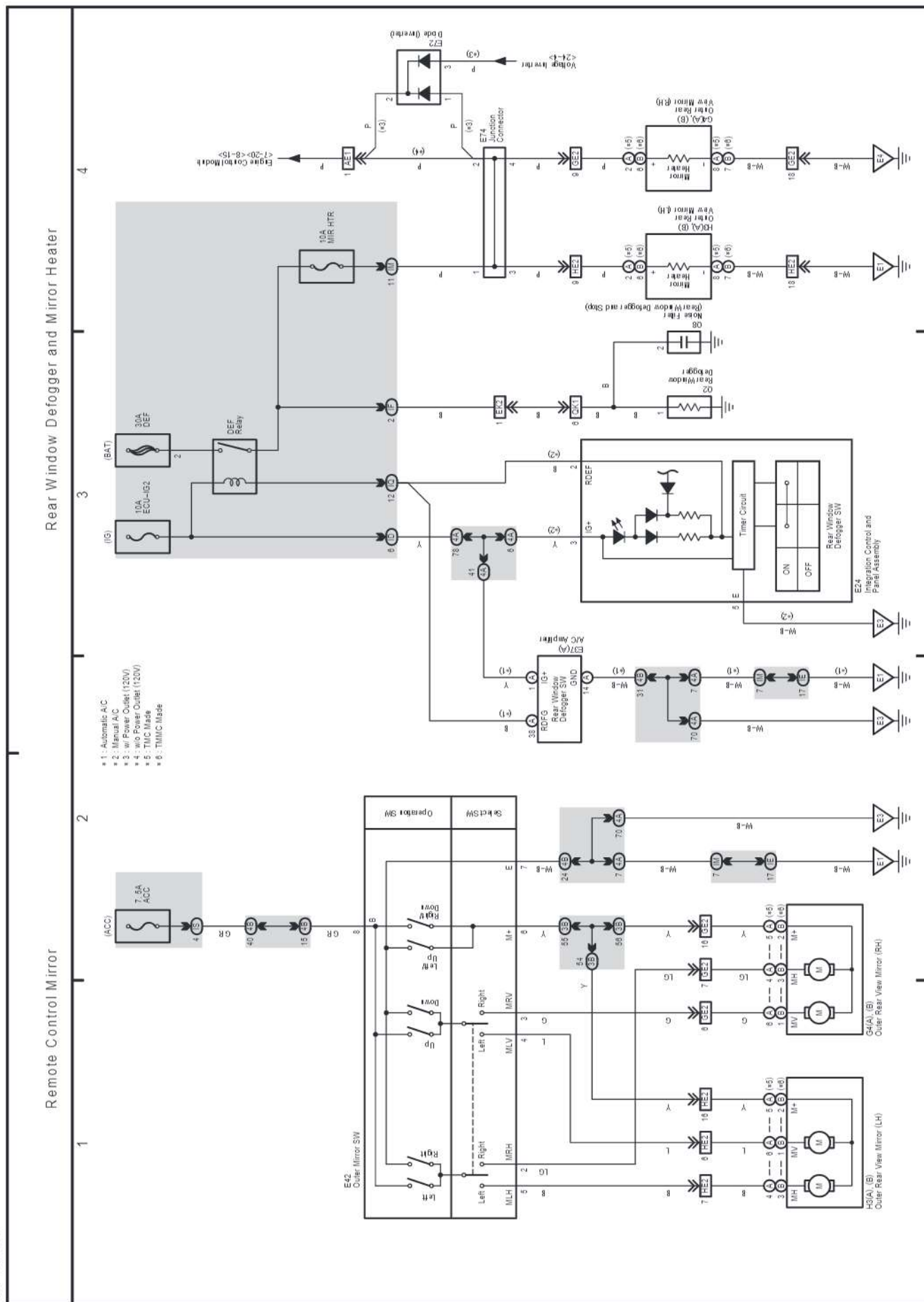
16 RAV4



RAV4 (EM16B0U)

M OVERALL ELECTRICAL WIRING DIAGRAM

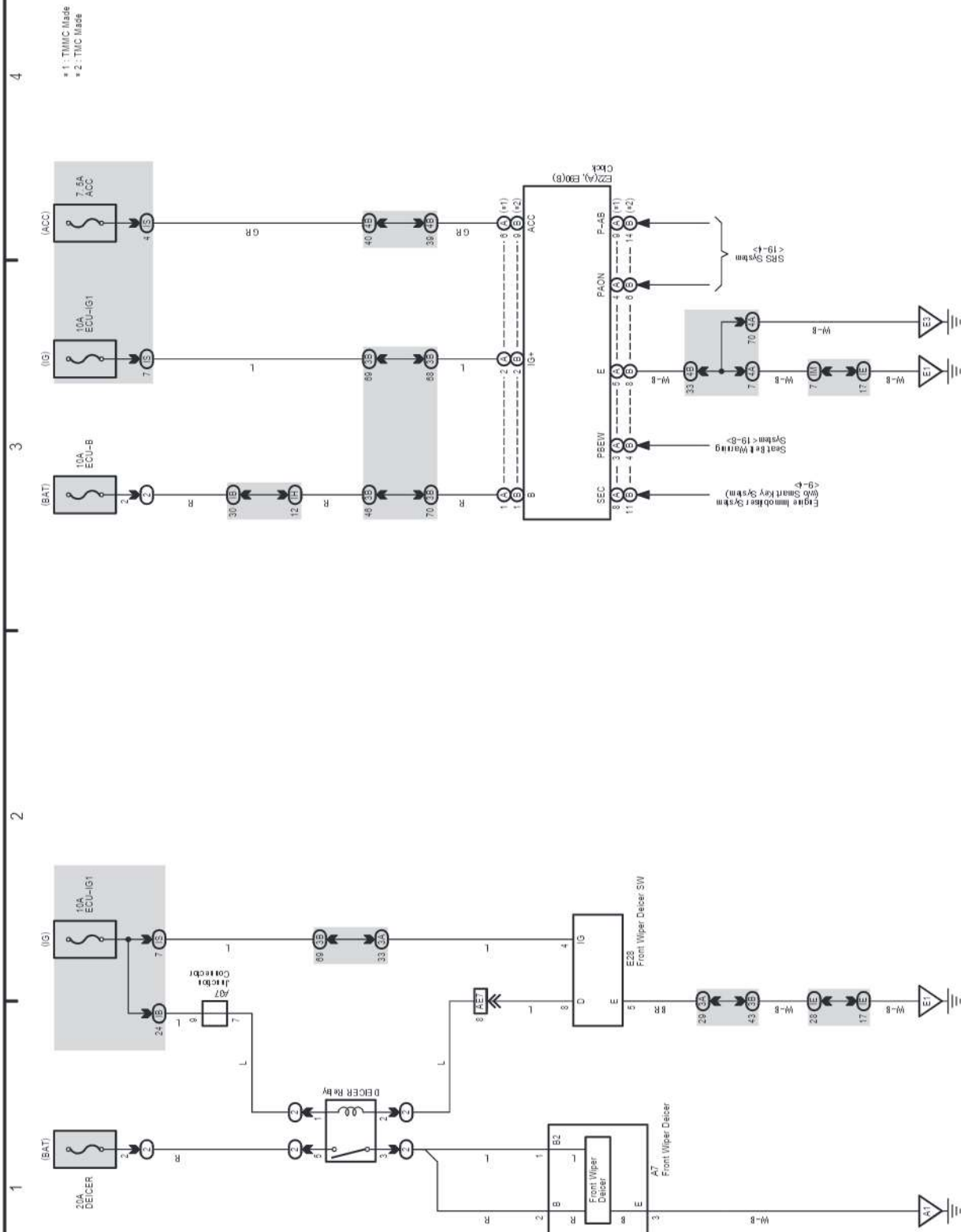
16 RAV4



RAV4 (EM16B0U)

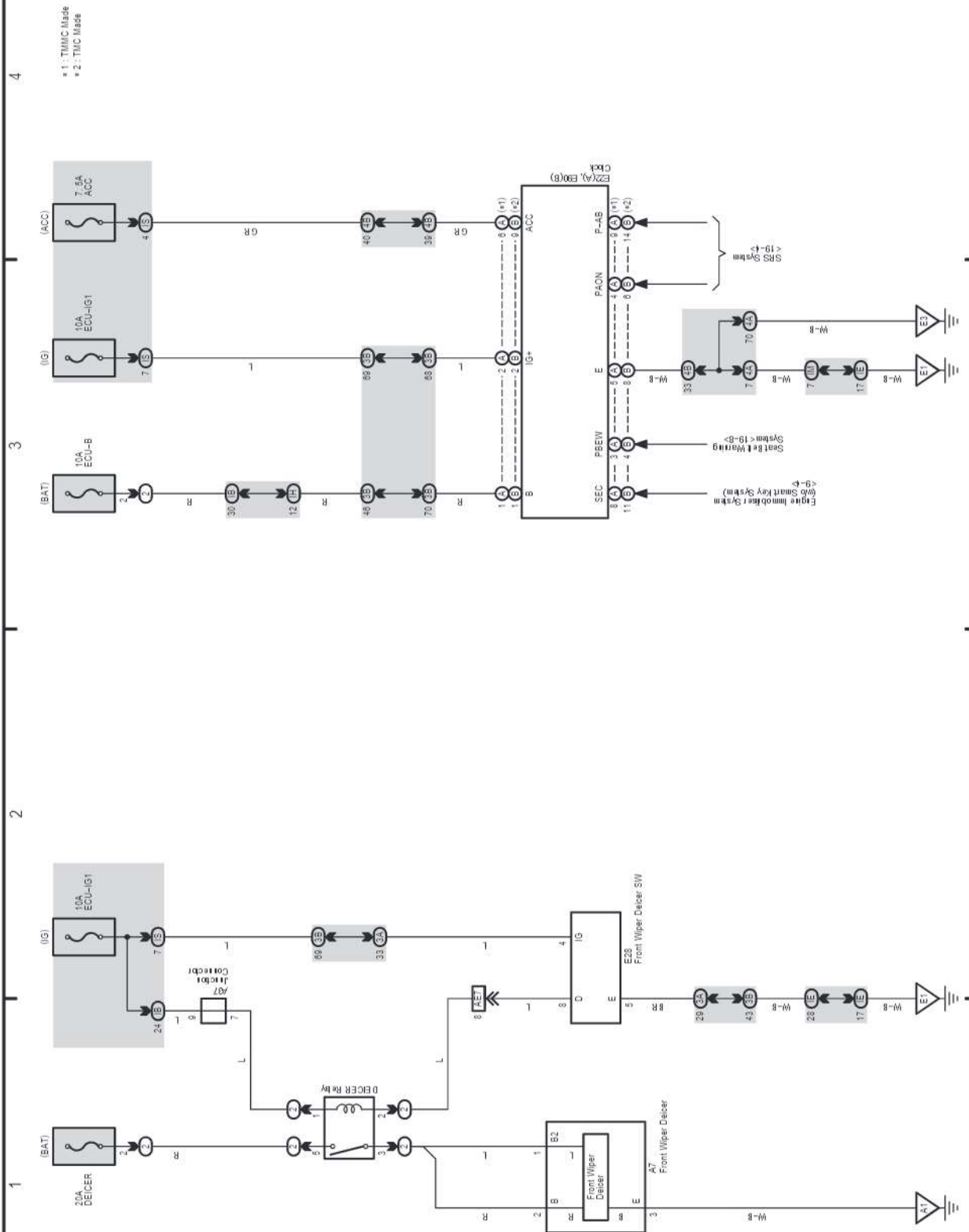
Front Window Deicer

Clock (w/ Manual Air Conditioning)



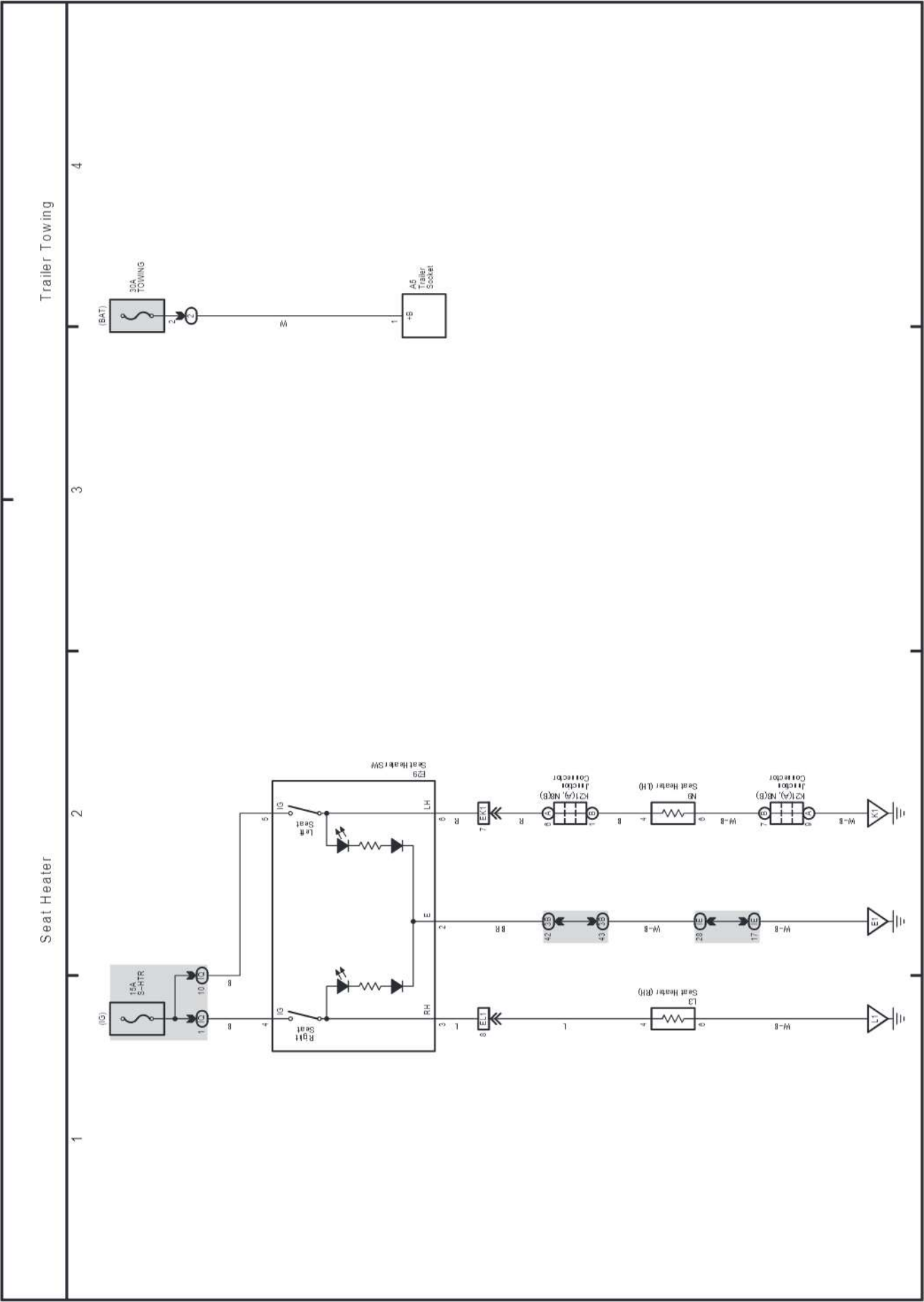
Front Window Deicer

Clock (w/ Manual Air Conditioning)



M OVERALL ELECTRICAL WIRING DIAGRAM

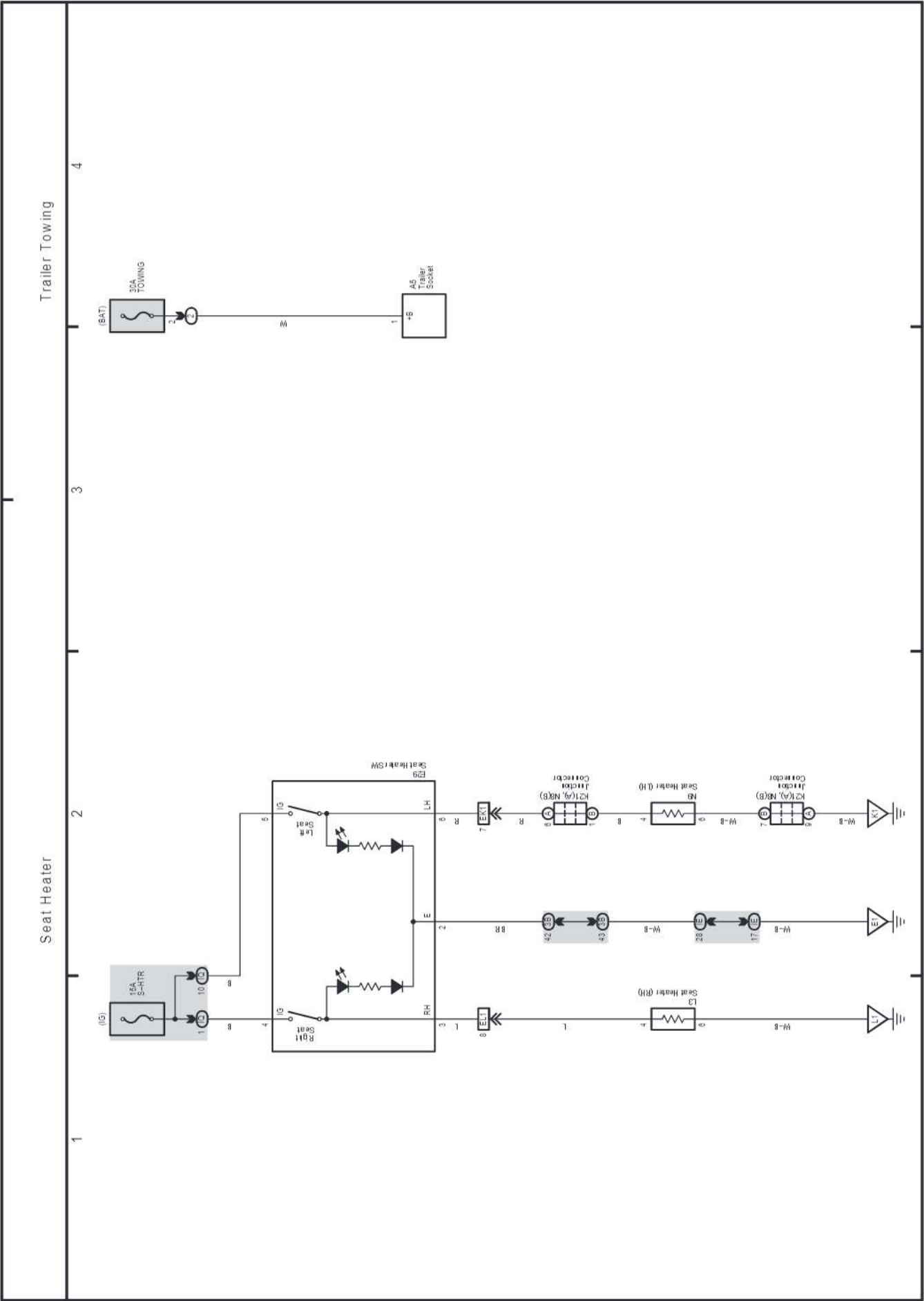
18 RAV4



RAV4 (EM16B0U)

M OVERALL ELECTRICAL WIRING DIAGRAM

18 RAV4

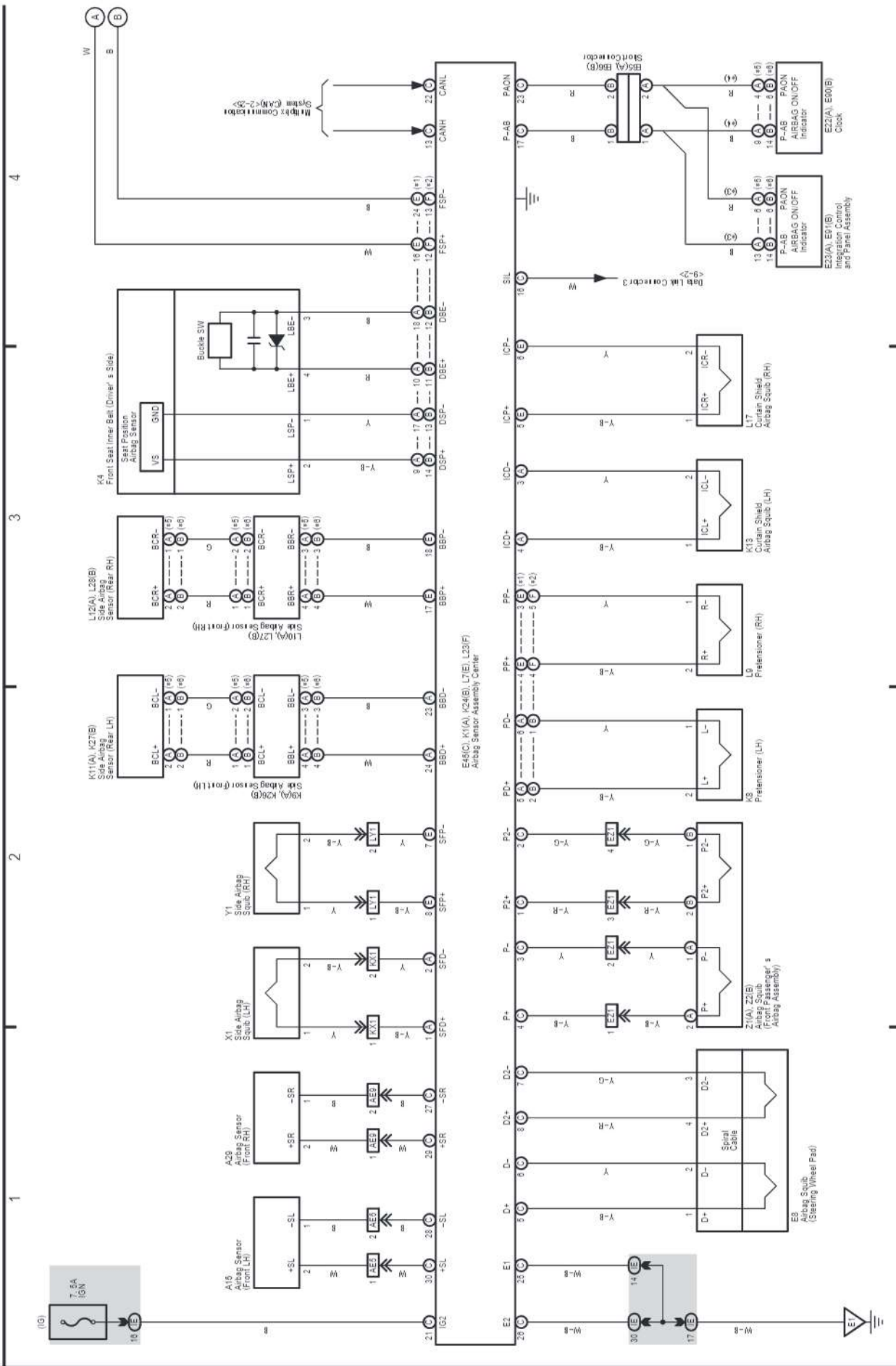


RAV4 (EM16B0U)

M OVERALL ELECTRICAL WIRING DIAGRAM

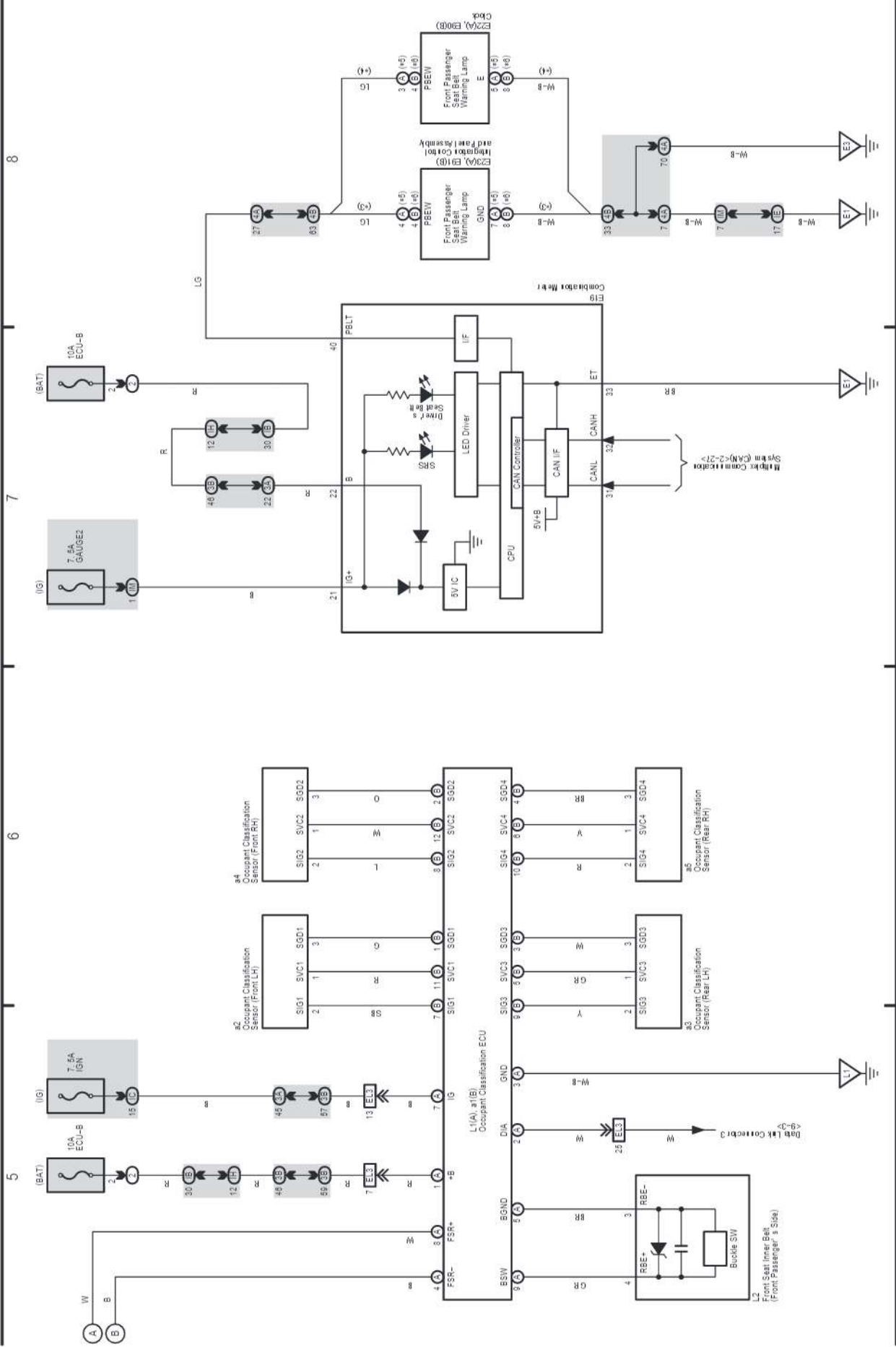
- * 1 : w/ Side Airbag
- * 2 : w/o Side Airbag
- * 3 : Automatic A/C
- * 4 : Manual A/C
- * 5 : TMMC Made
- * 6 : TMC Made

SRS



SRS

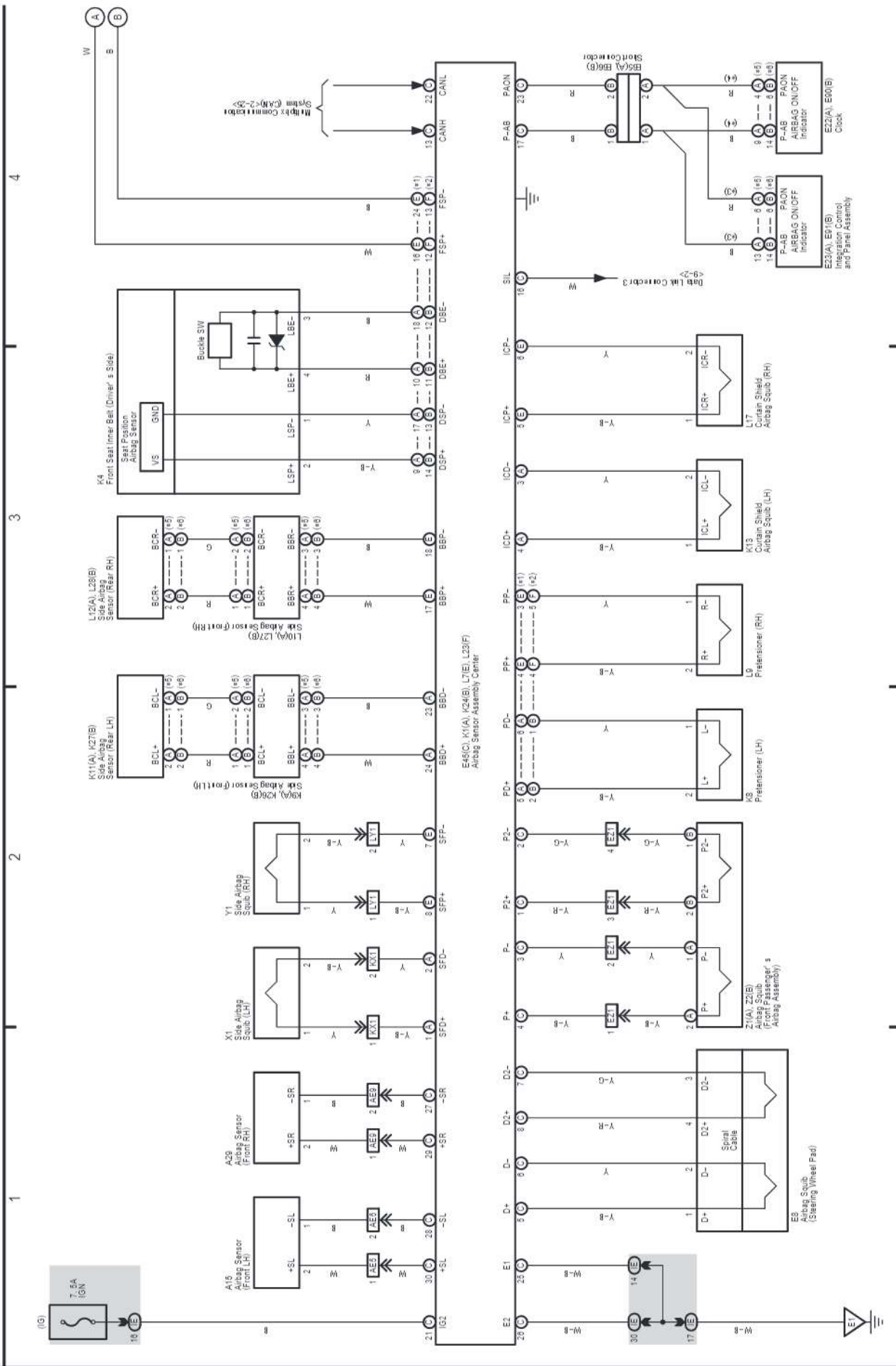
Seat Belt Warning



M OVERALL ELECTRICAL WIRING DIAGRAM

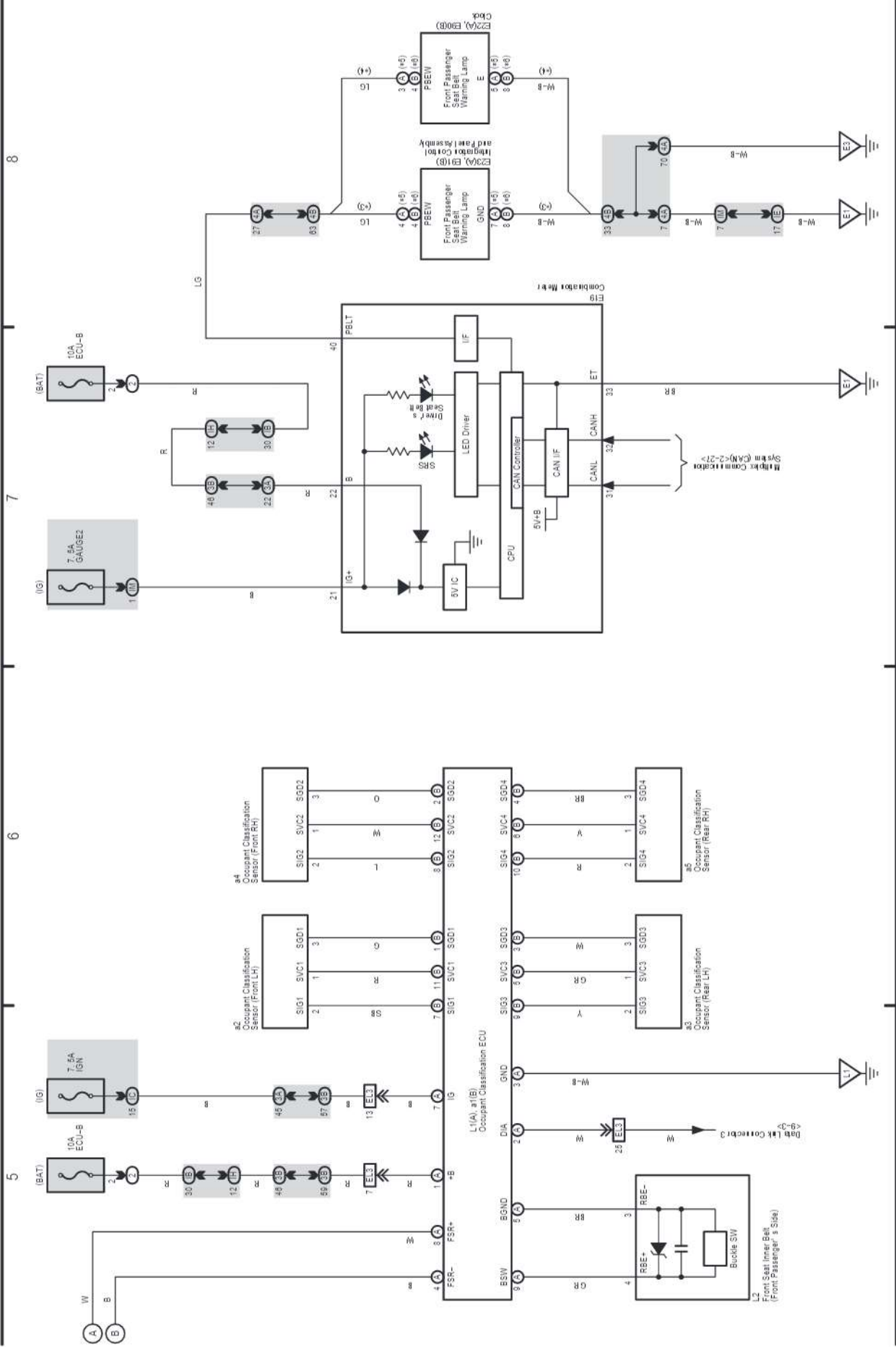
- * 1 : w/ Side Airbag
- * 2 : w/o Side Airbag
- * 3 : Automatic A/C
- * 4 : Manual A/C
- * 5 : TMMC Made
- * 6 : TMC Made

SRS



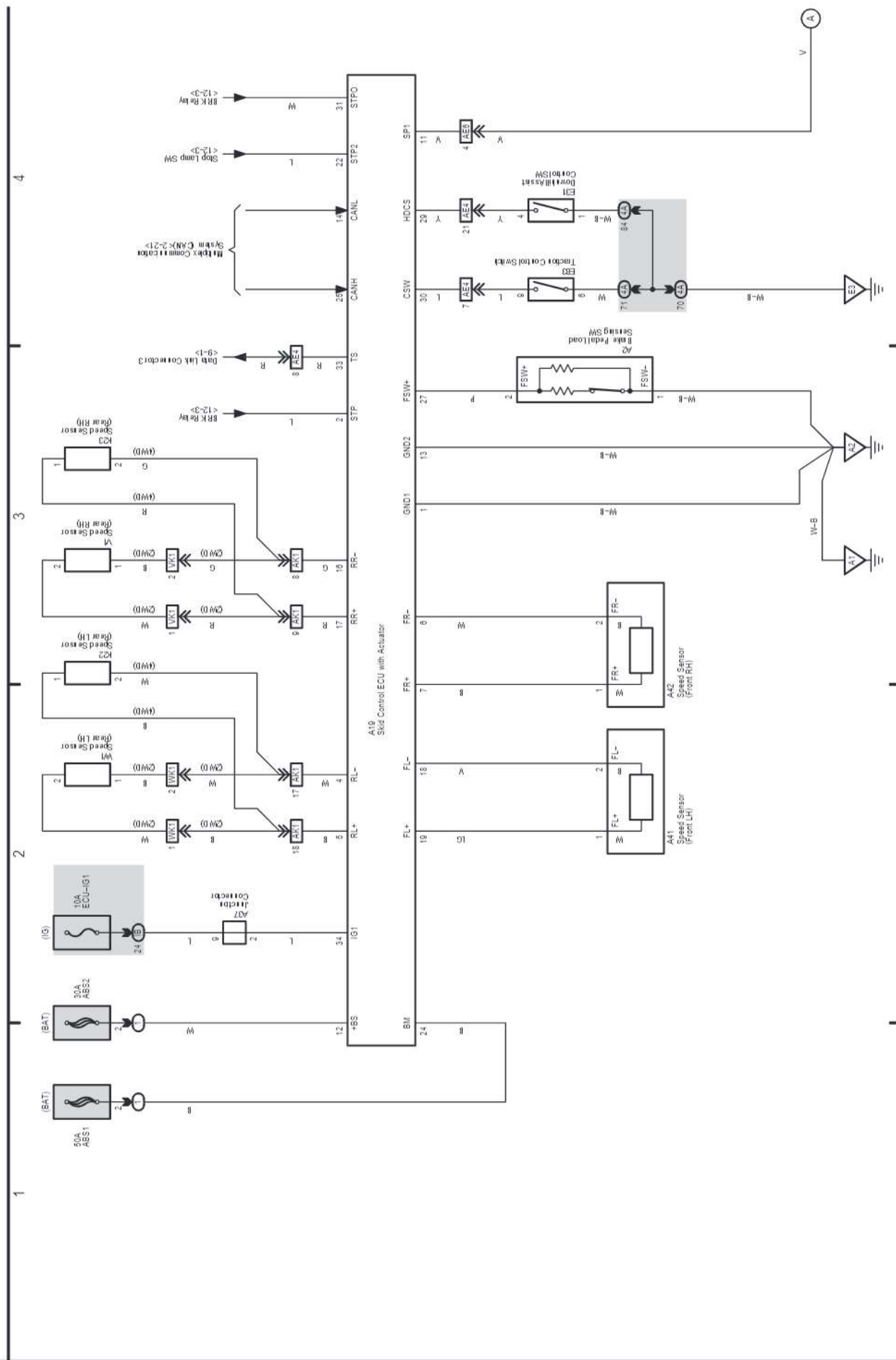
SRS

Seat Belt Warning

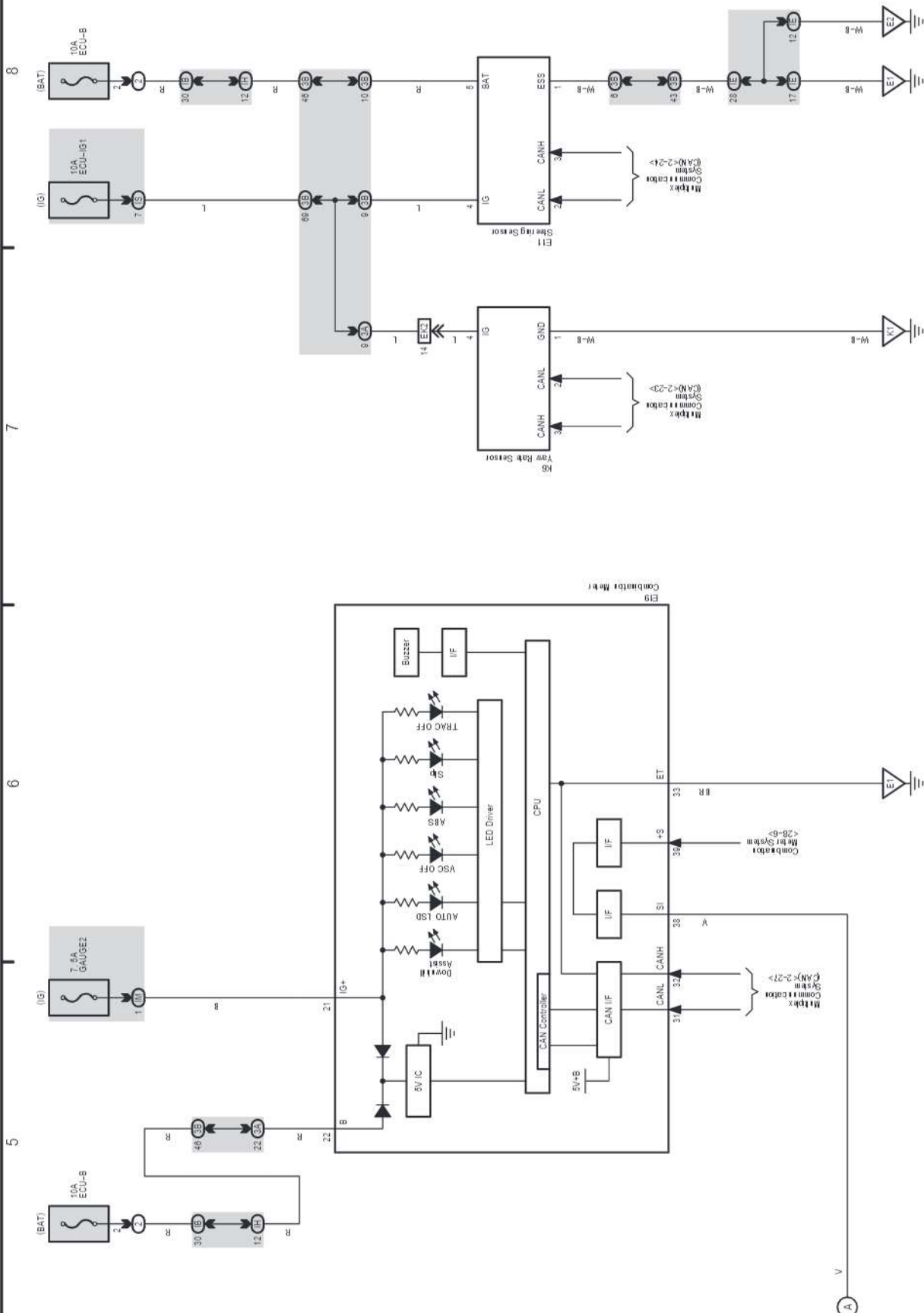


M OVERALL ELECTRICAL WIRING DIAGRAM

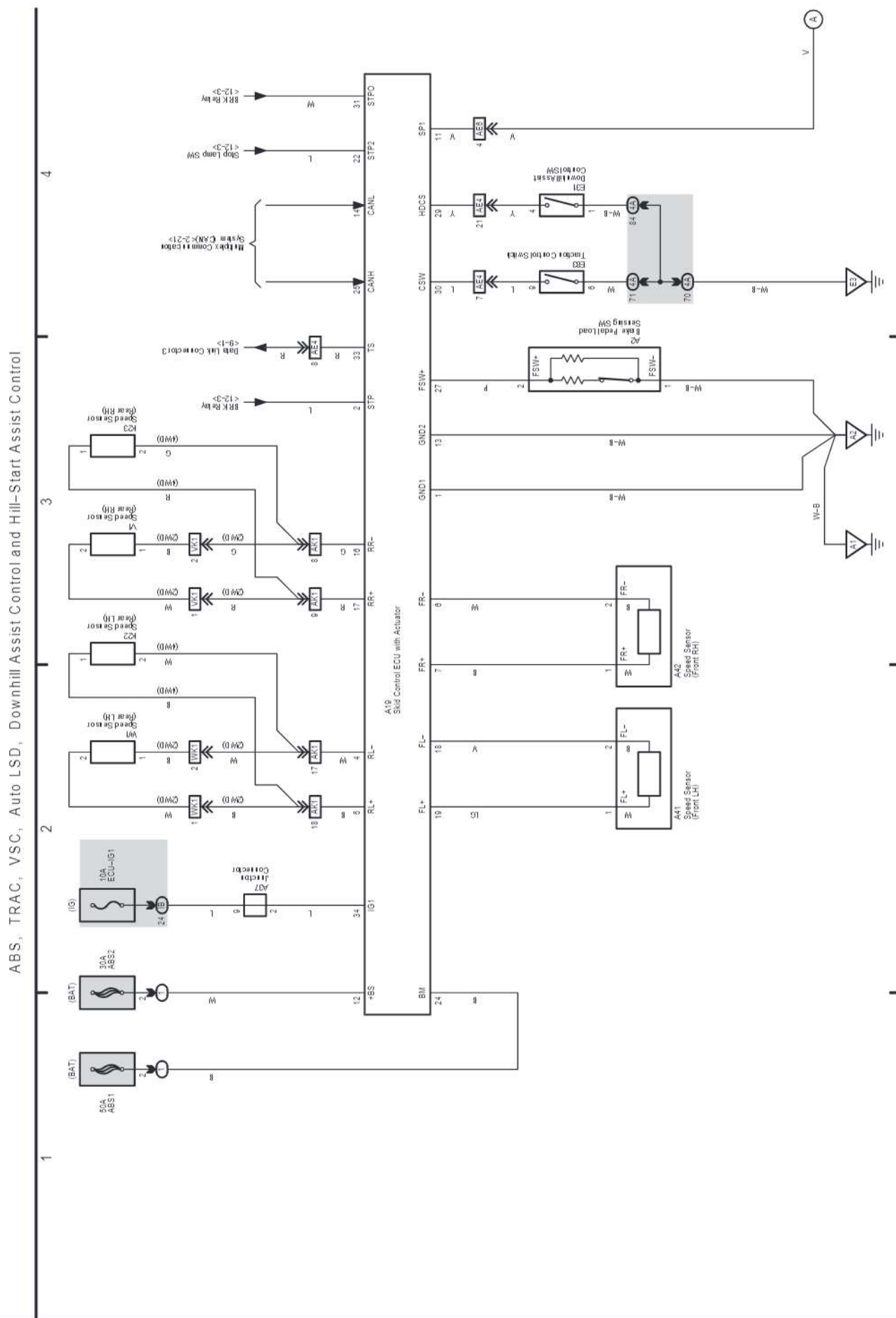
ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control



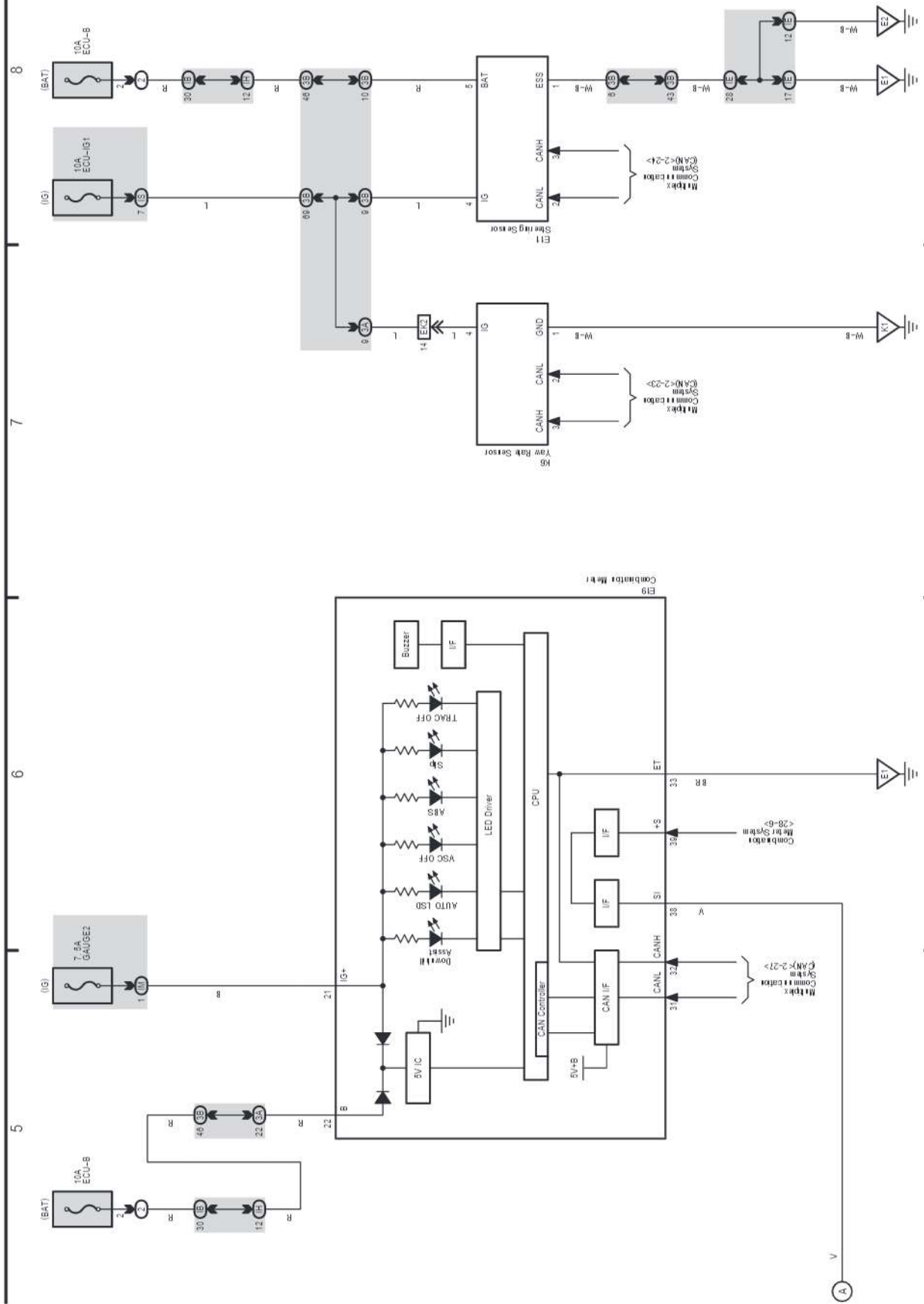
ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control



M OVERALL ELECTRICAL WIRING DIAGRAM

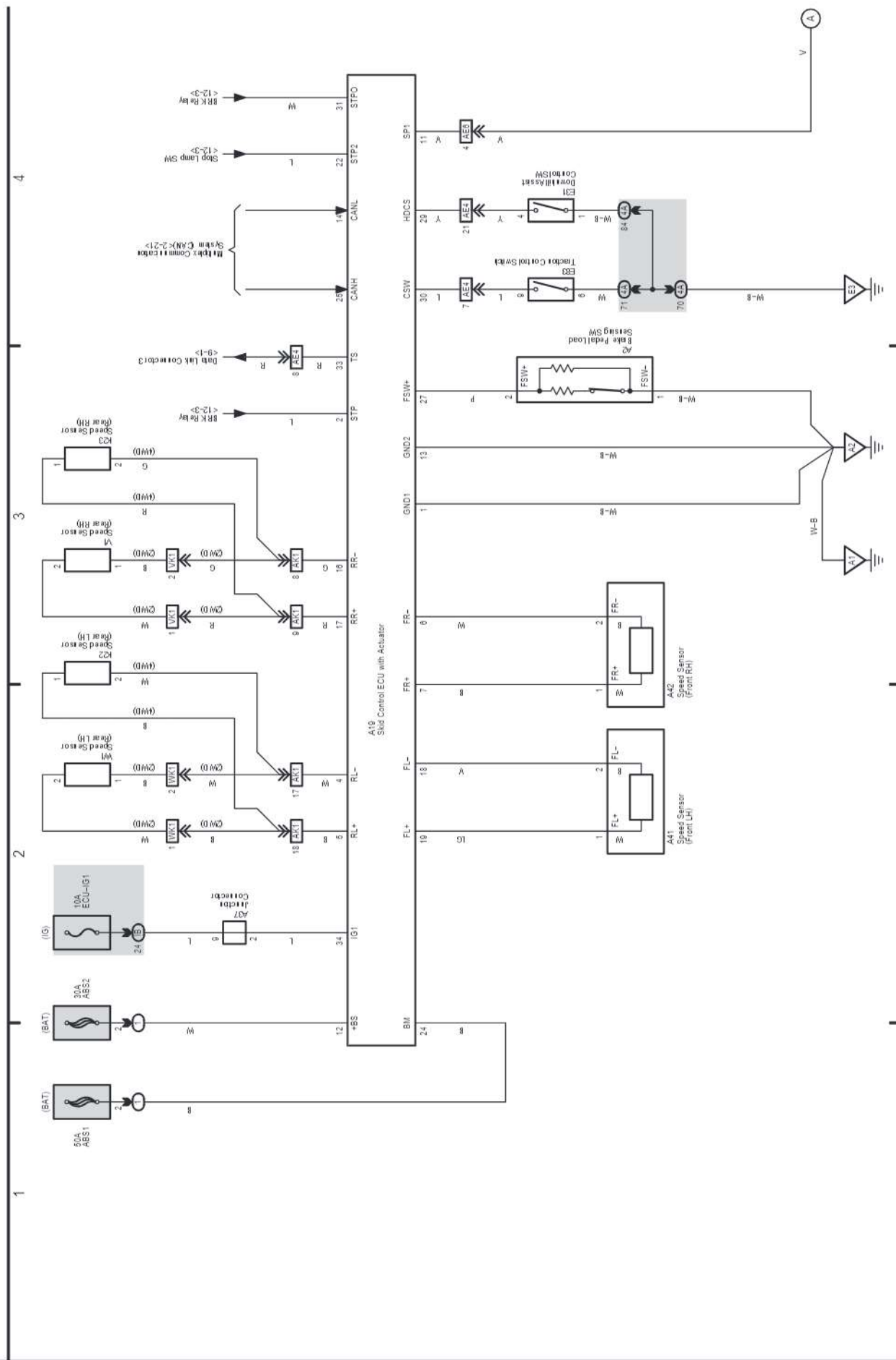


ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control

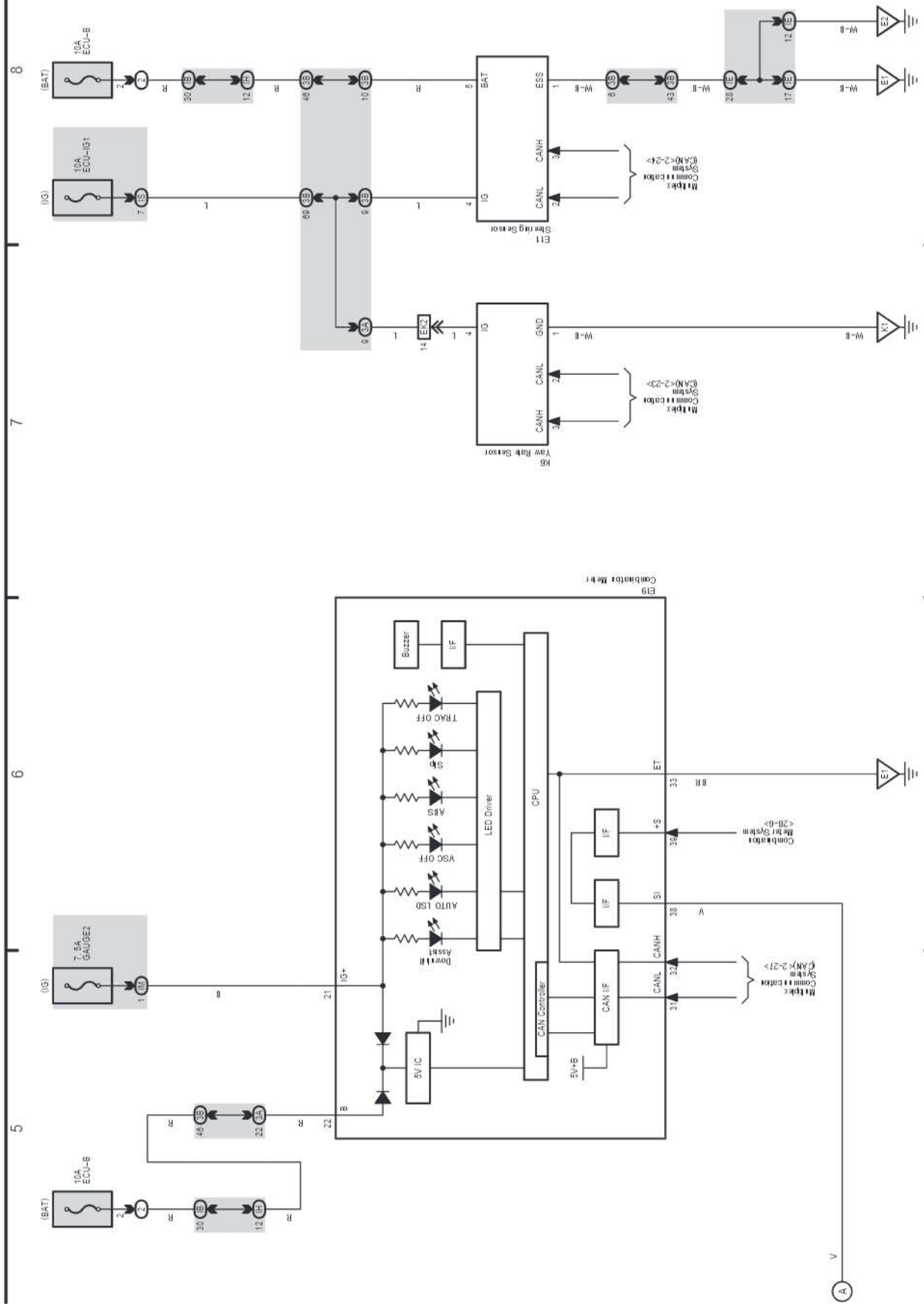


M OVERALL ELECTRICAL WIRING DIAGRAM

ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control

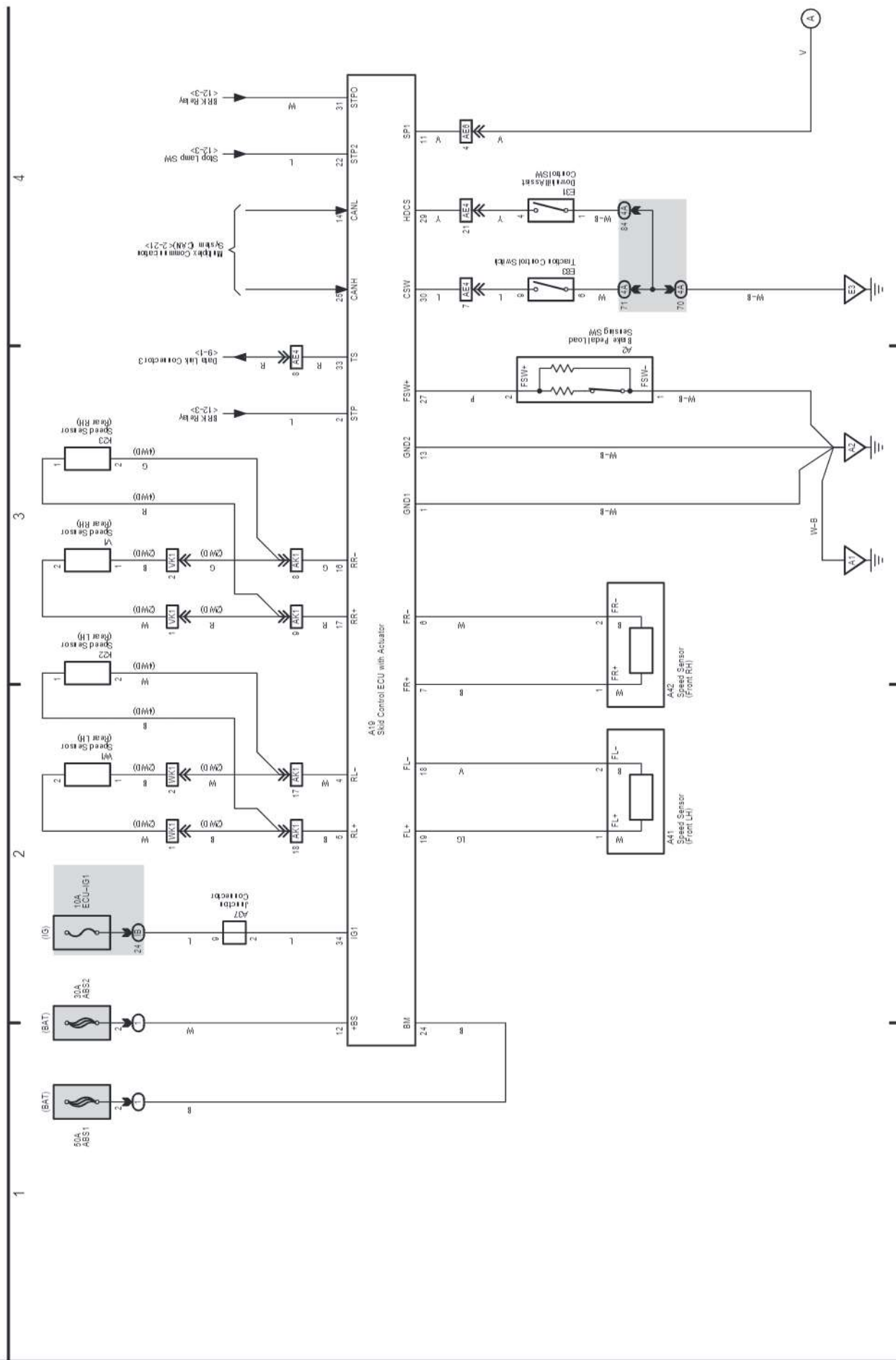


ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control

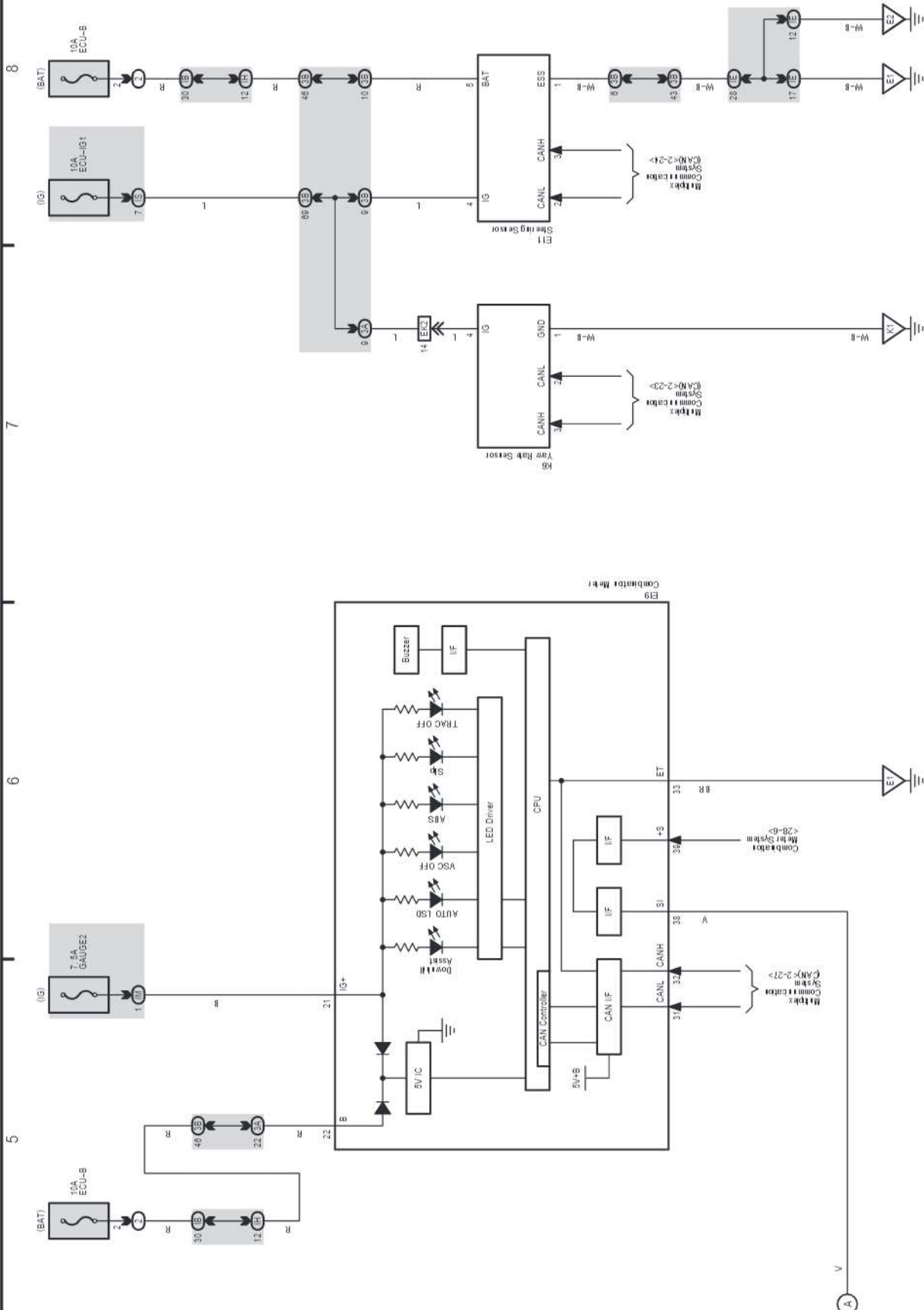


M OVERALL ELECTRICAL WIRING DIAGRAM

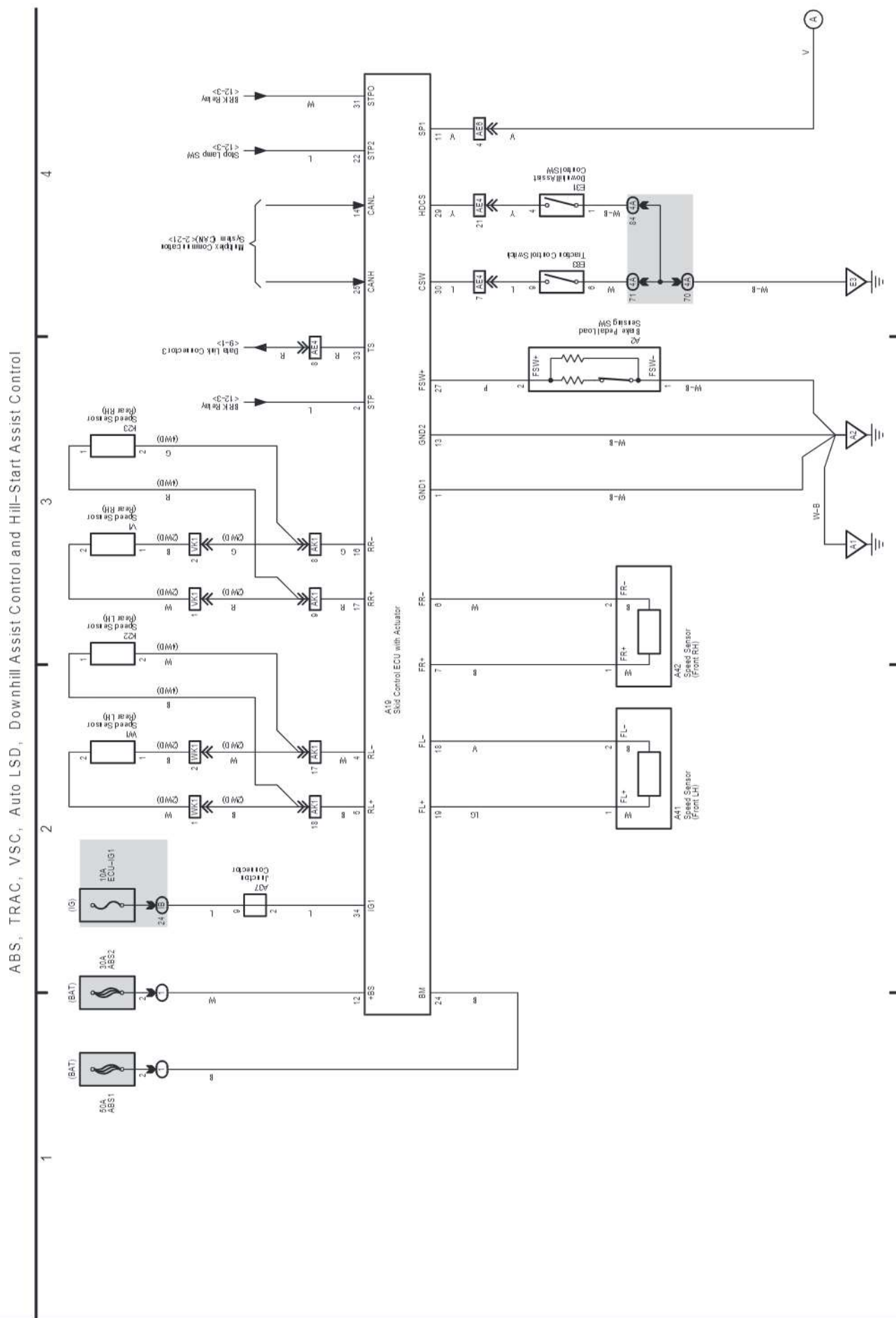
ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control



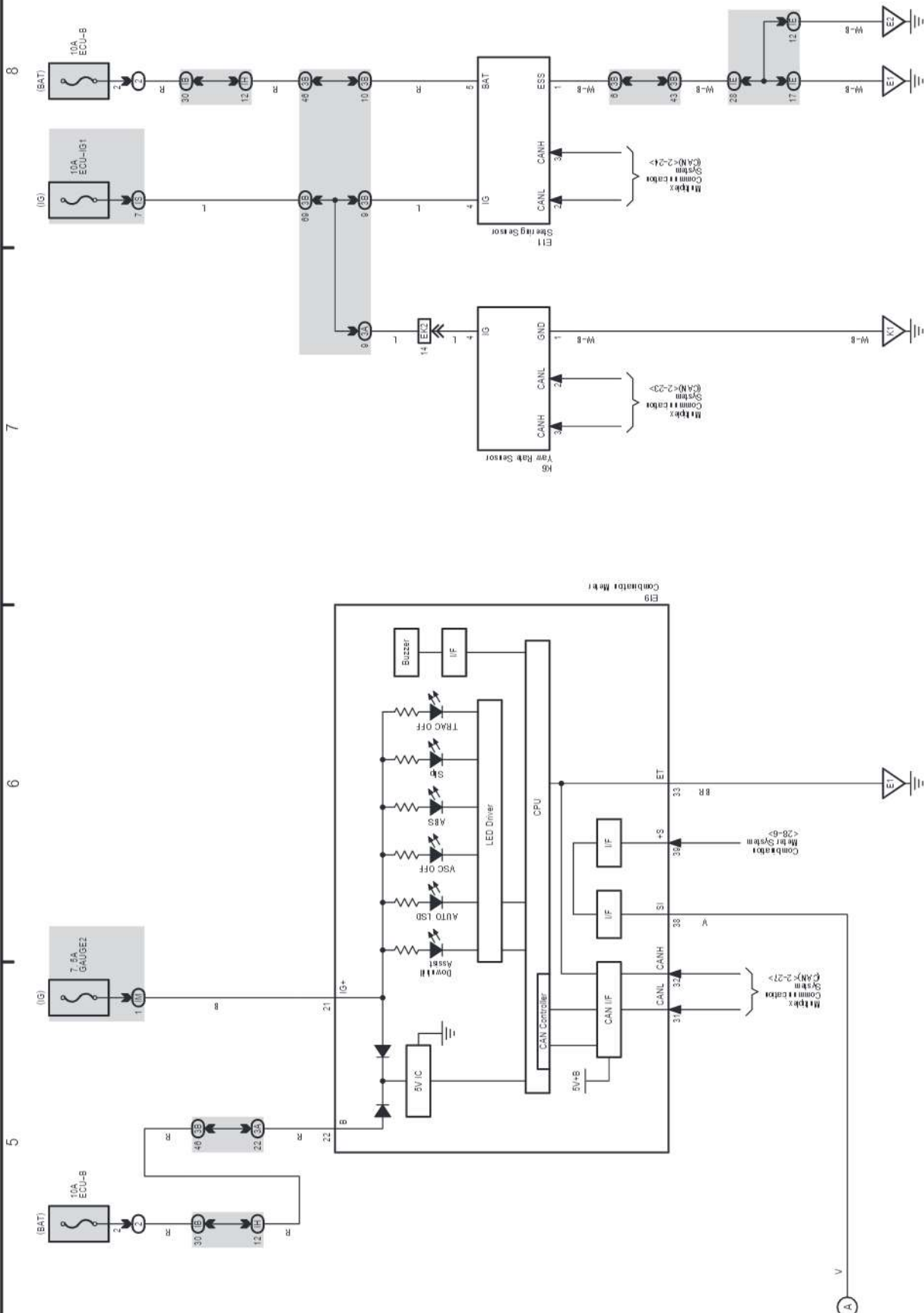
ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control



M OVERALL ELECTRICAL WIRING DIAGRAM

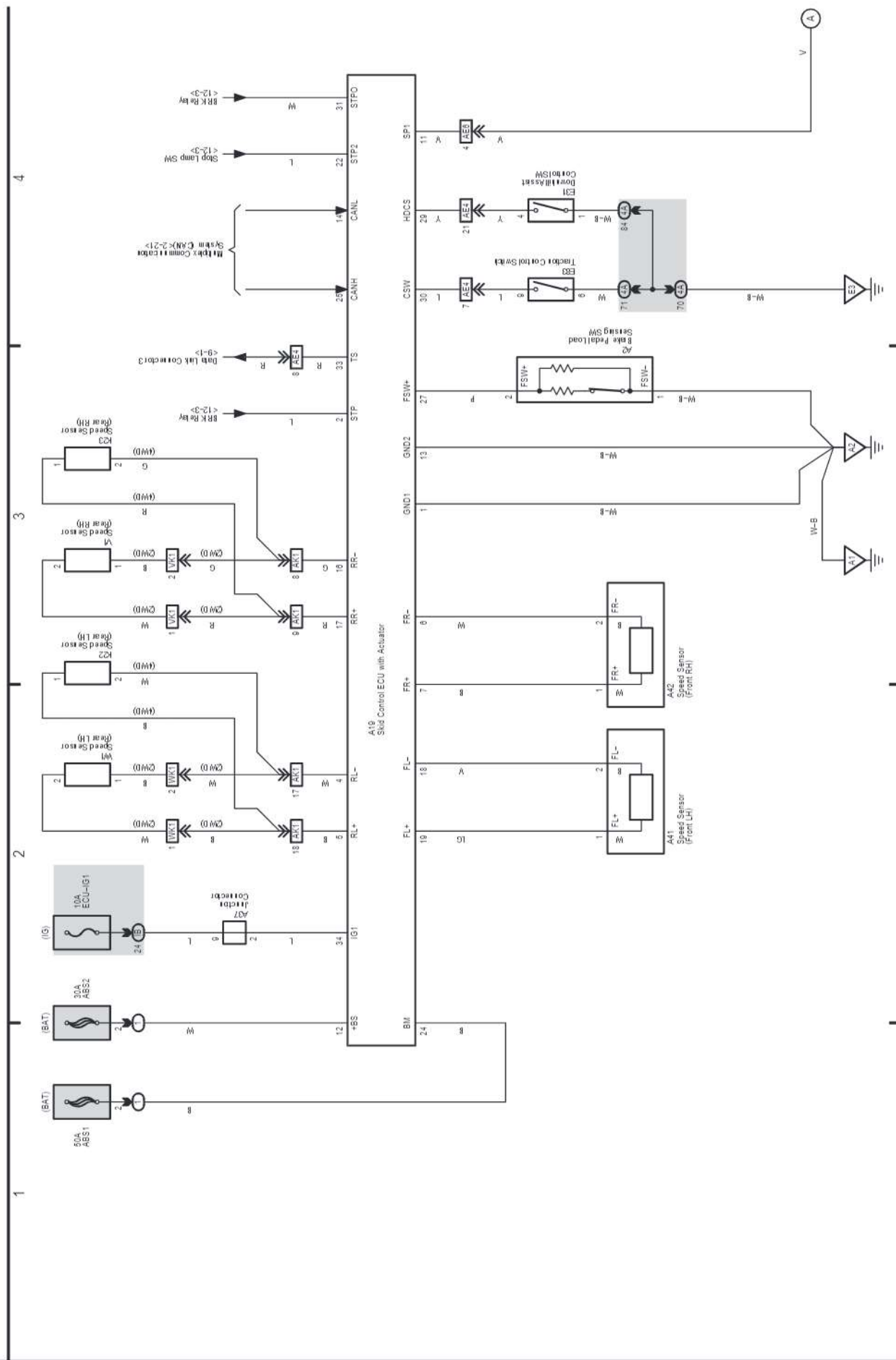


ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control

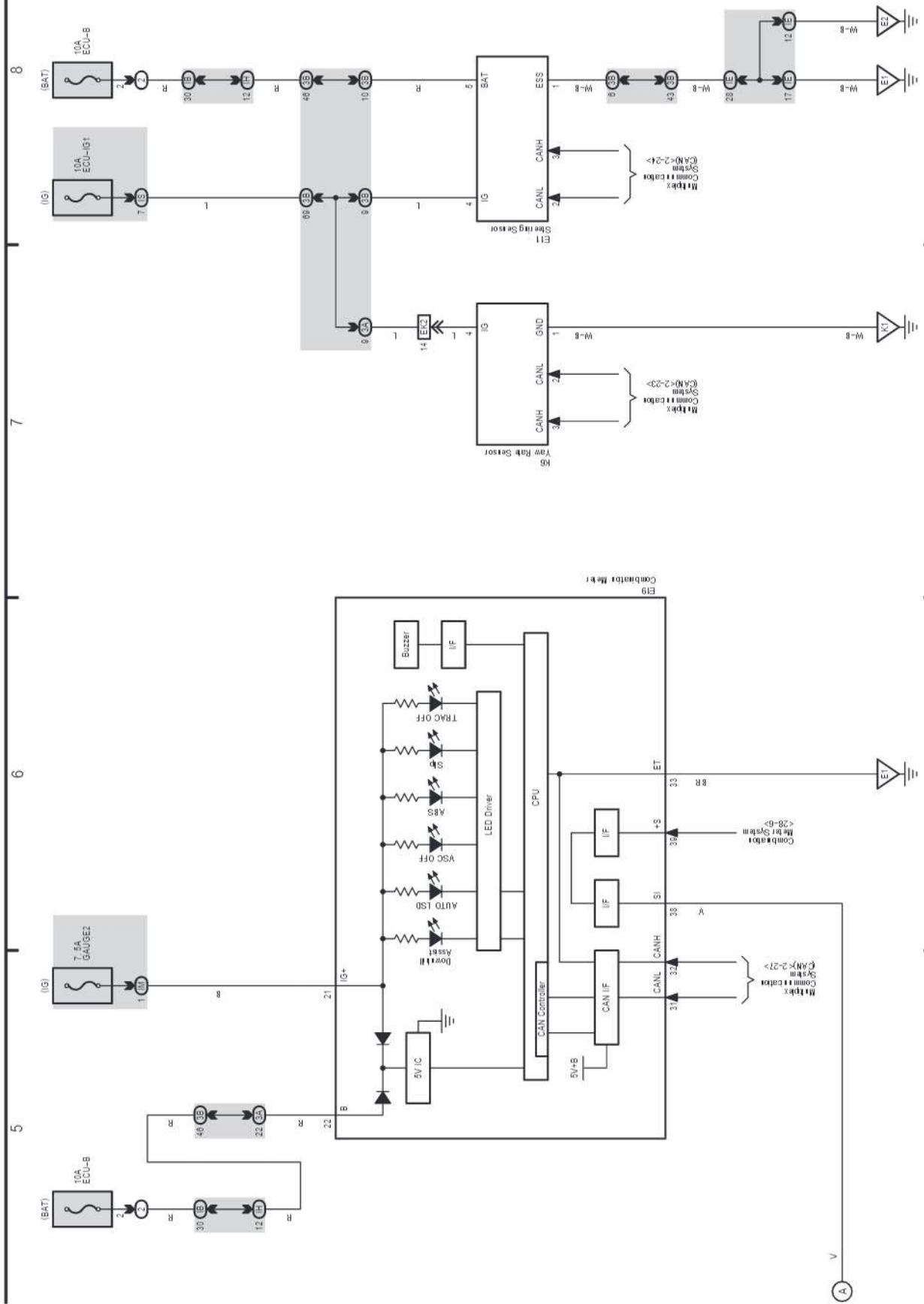


M OVERALL ELECTRICAL WIRING DIAGRAM

ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control

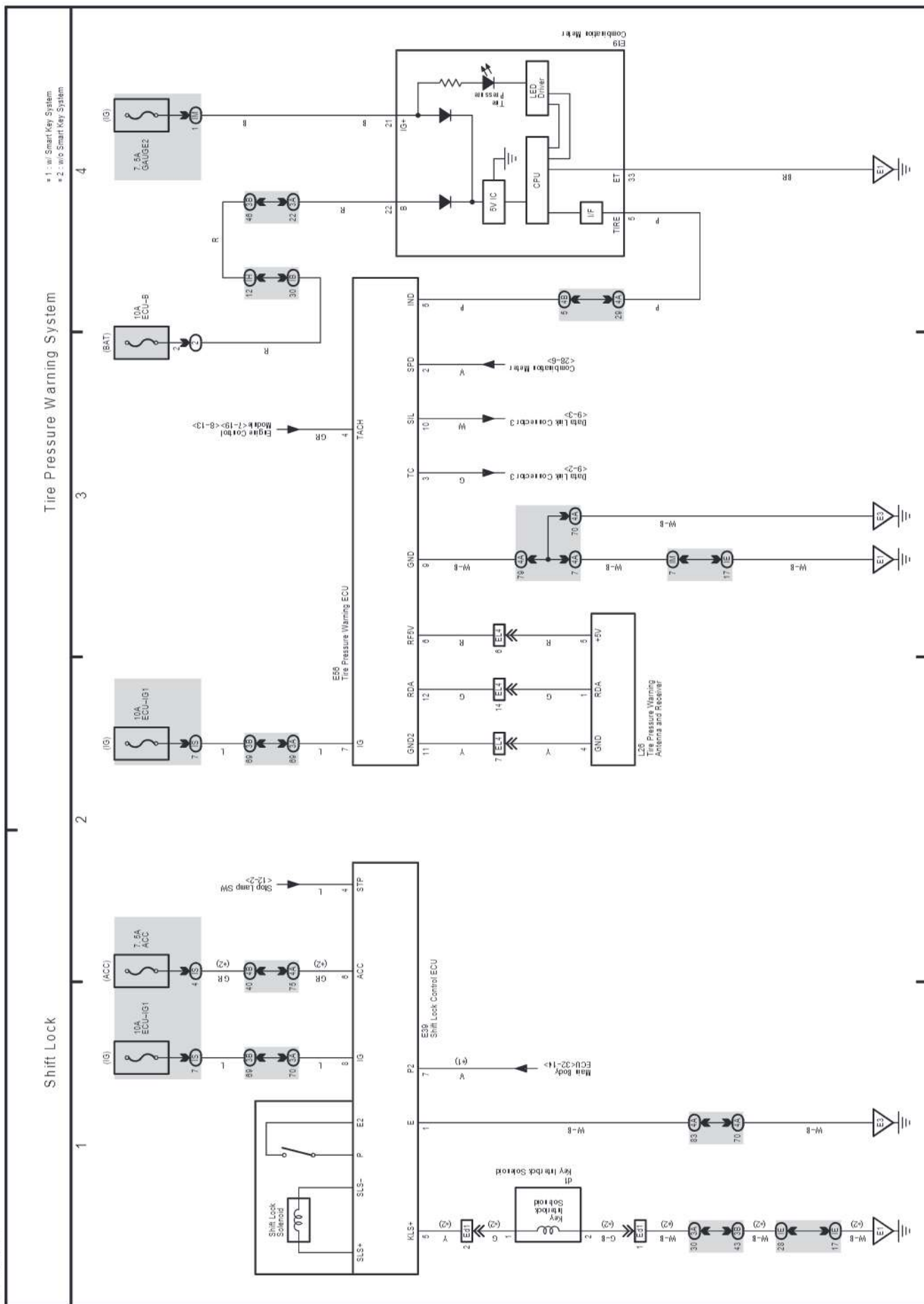


ABS, TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control



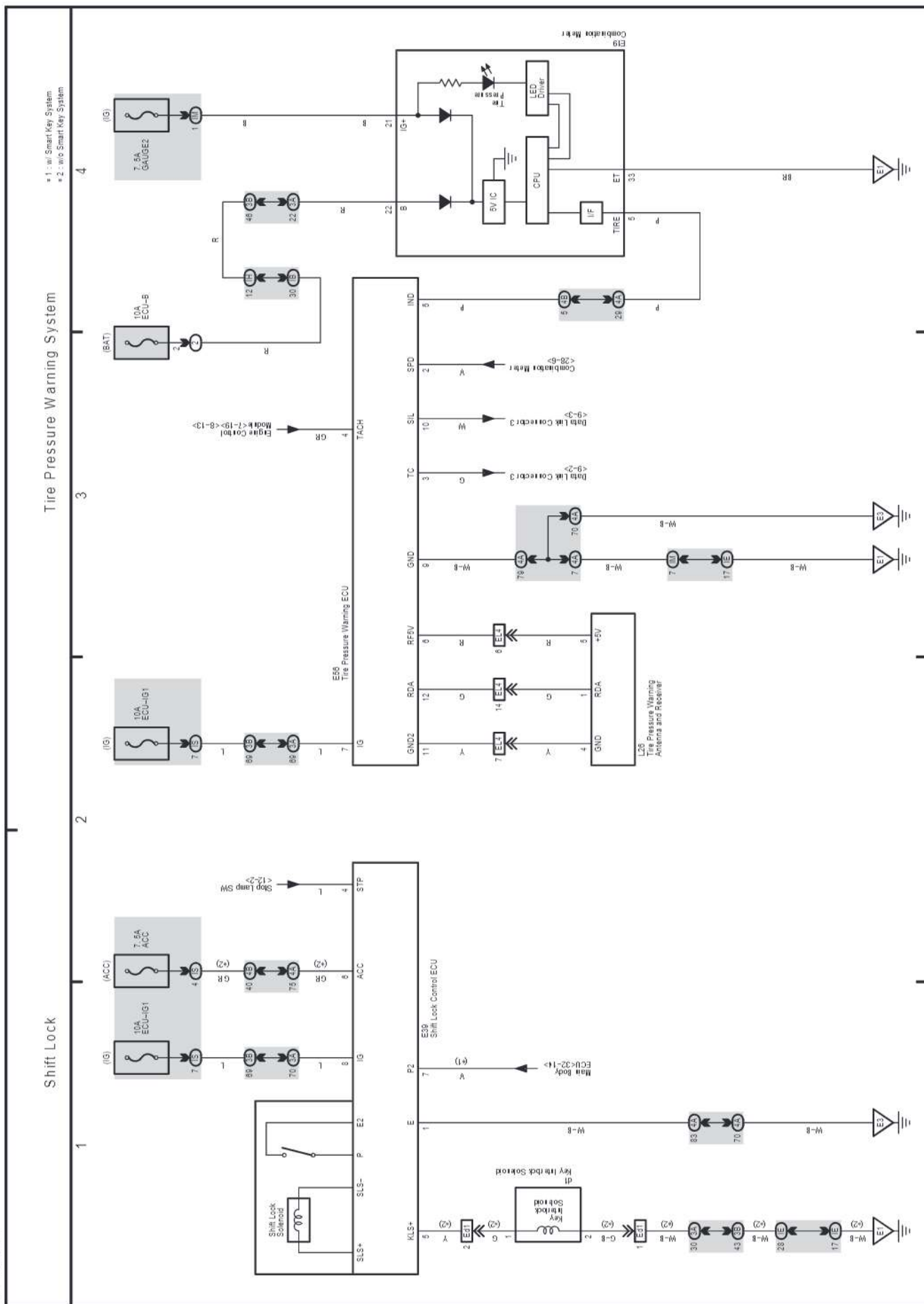
M OVERALL ELECTRICAL WIRING DIAGRAM

21 RAV4

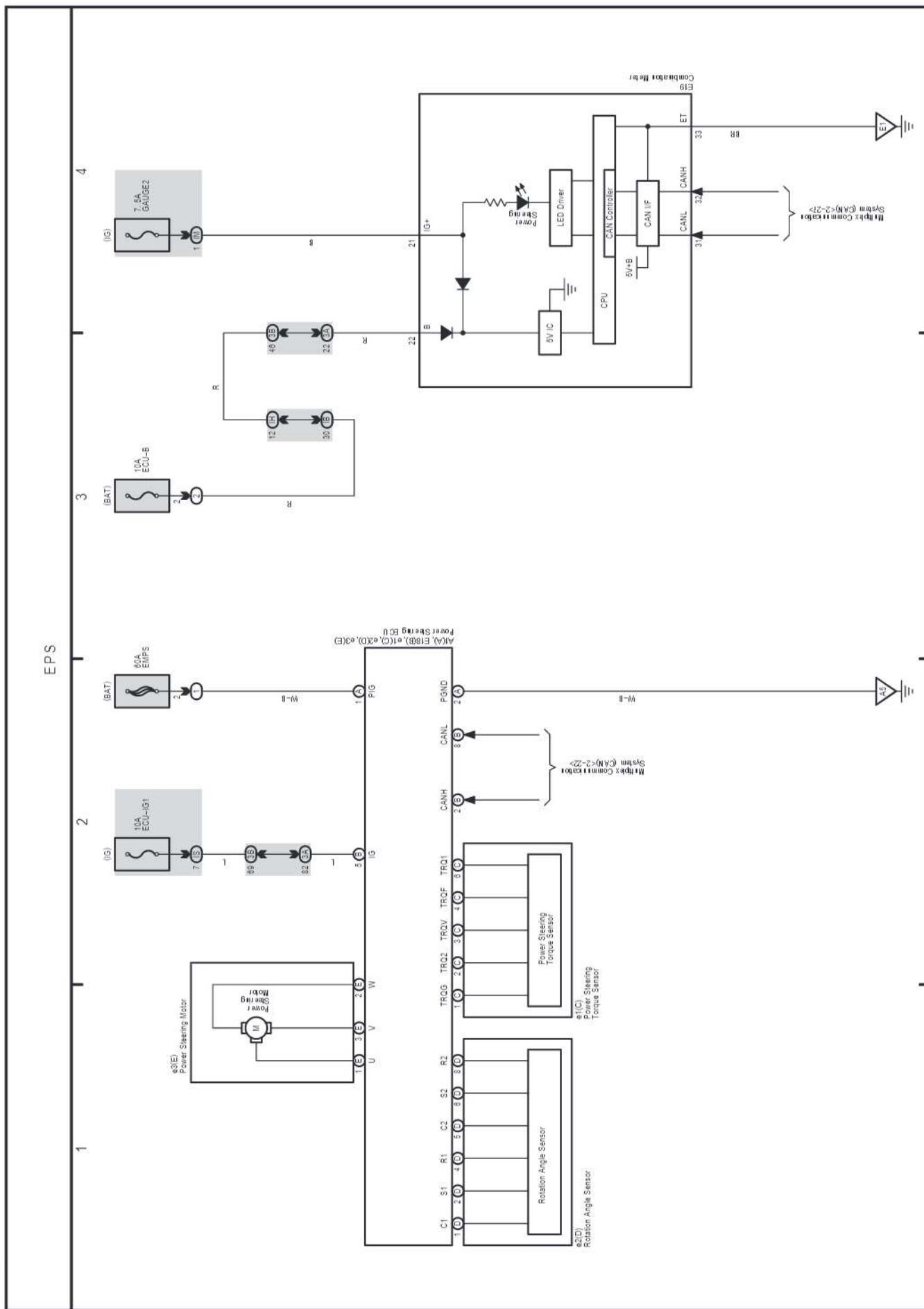


M OVERALL ELECTRICAL WIRING DIAGRAM

21 RAV4



RAV4 (EM16B0U)

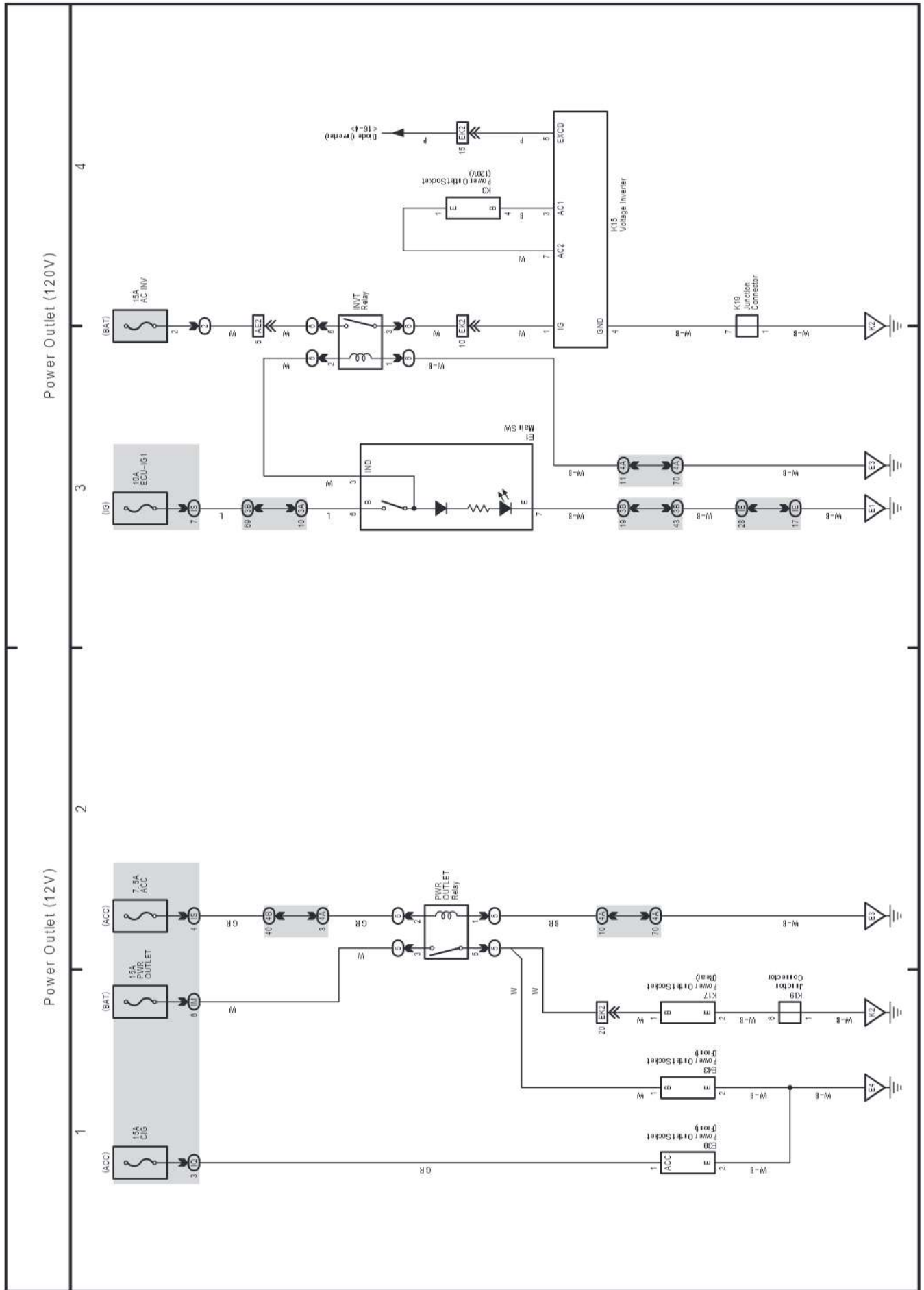


23 RAV4



23 RAV4

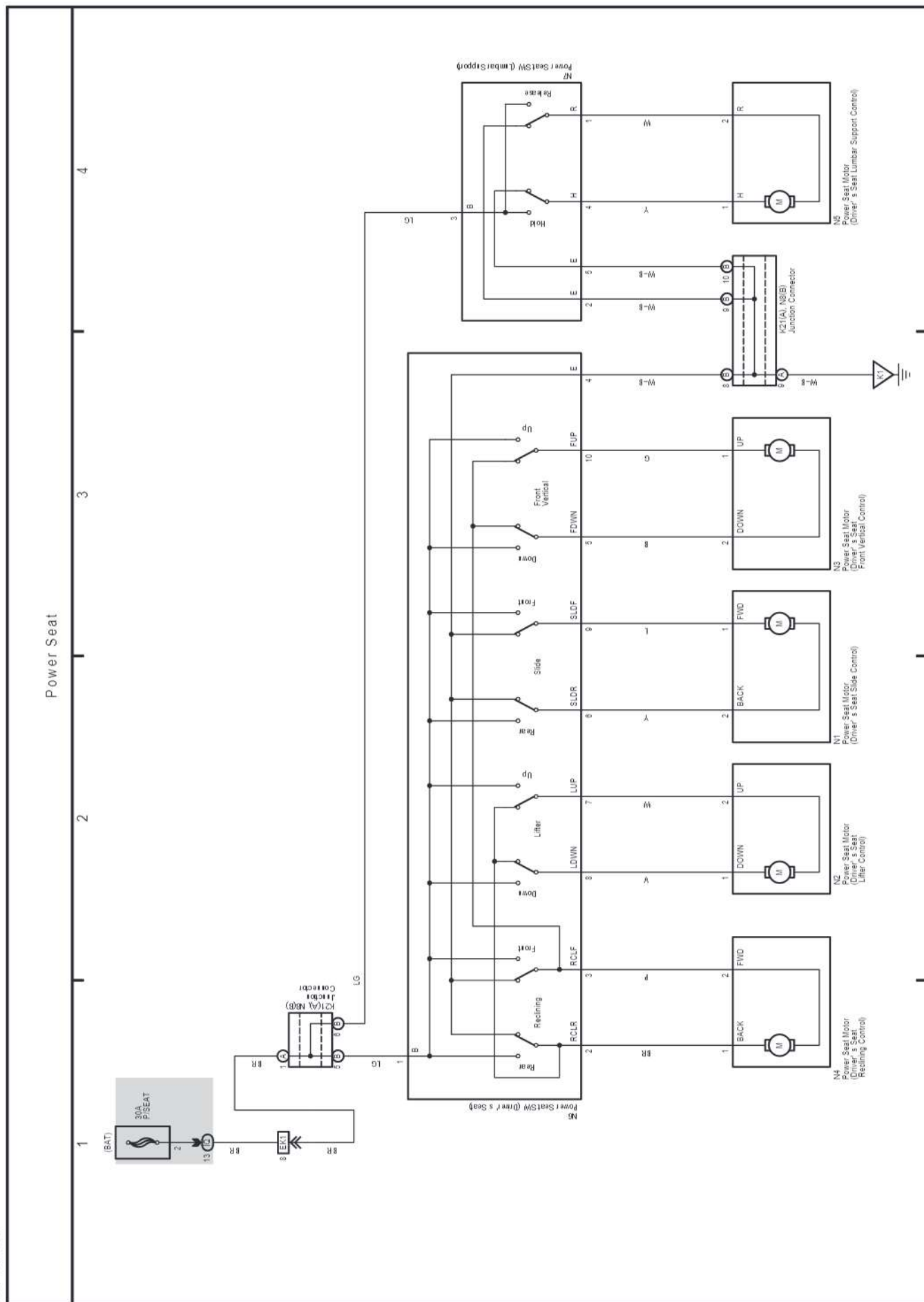






M OVERALL ELECTRICAL WIRING DIAGRAM

25 RAV4

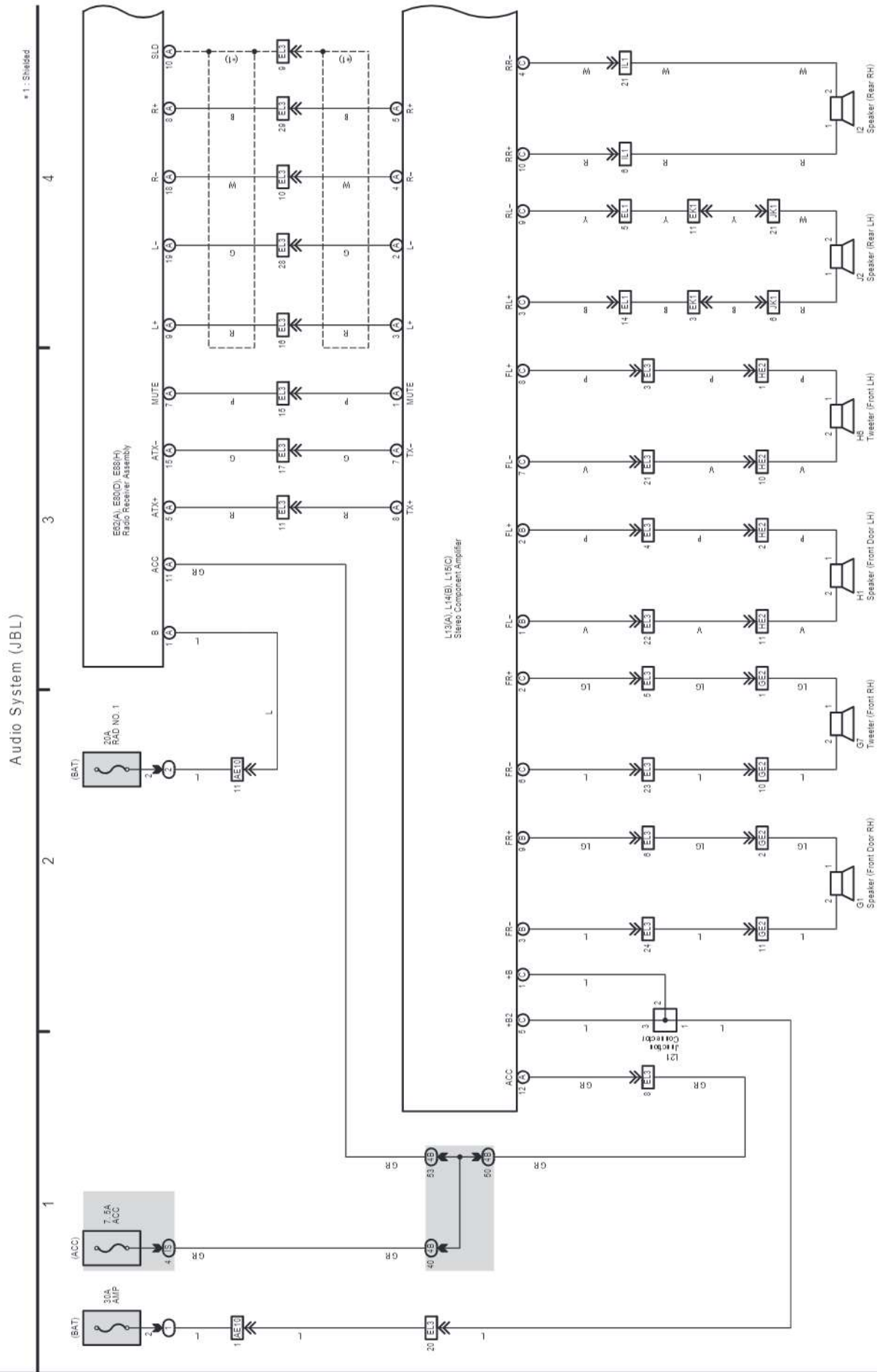


RAV4 (EM16B0U)

M OVERALL ELECTRICAL WIRING DIAGRAM

26 RAV4

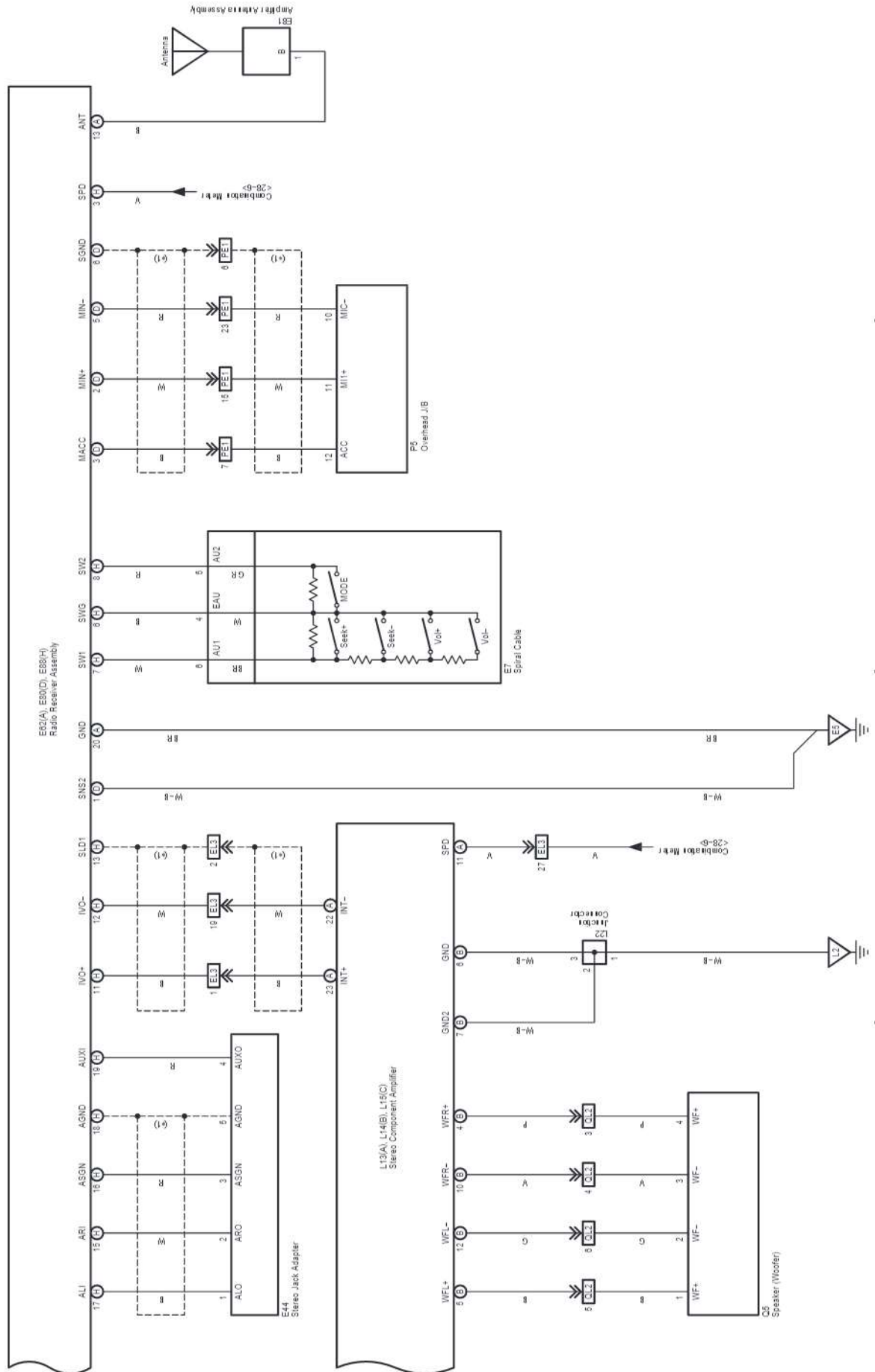
(Cont. next page)



RAV4 (EM16B0U)

Audio System (JBL)

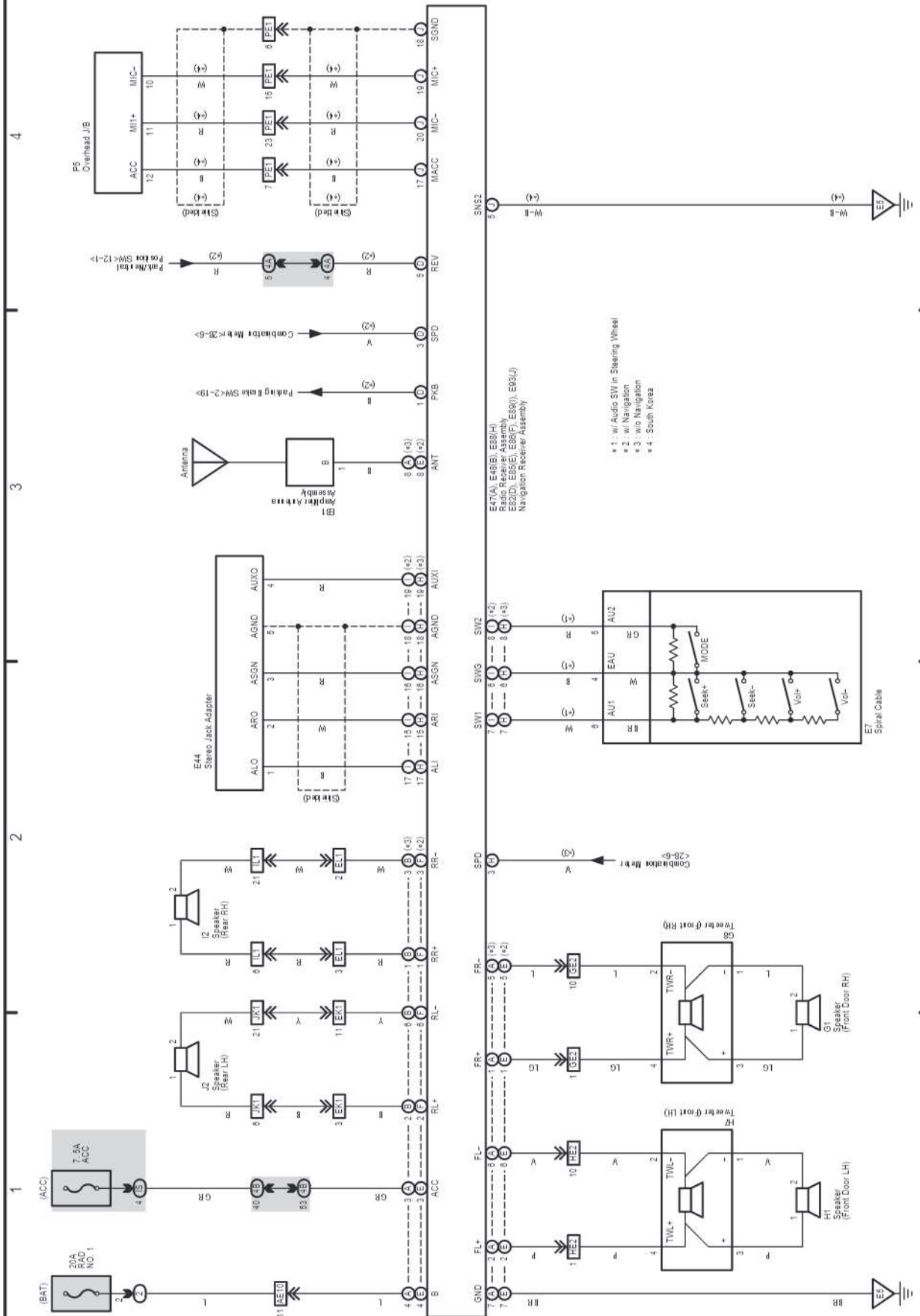
* 1 : Shielded



27 RAV4



27 RAV4



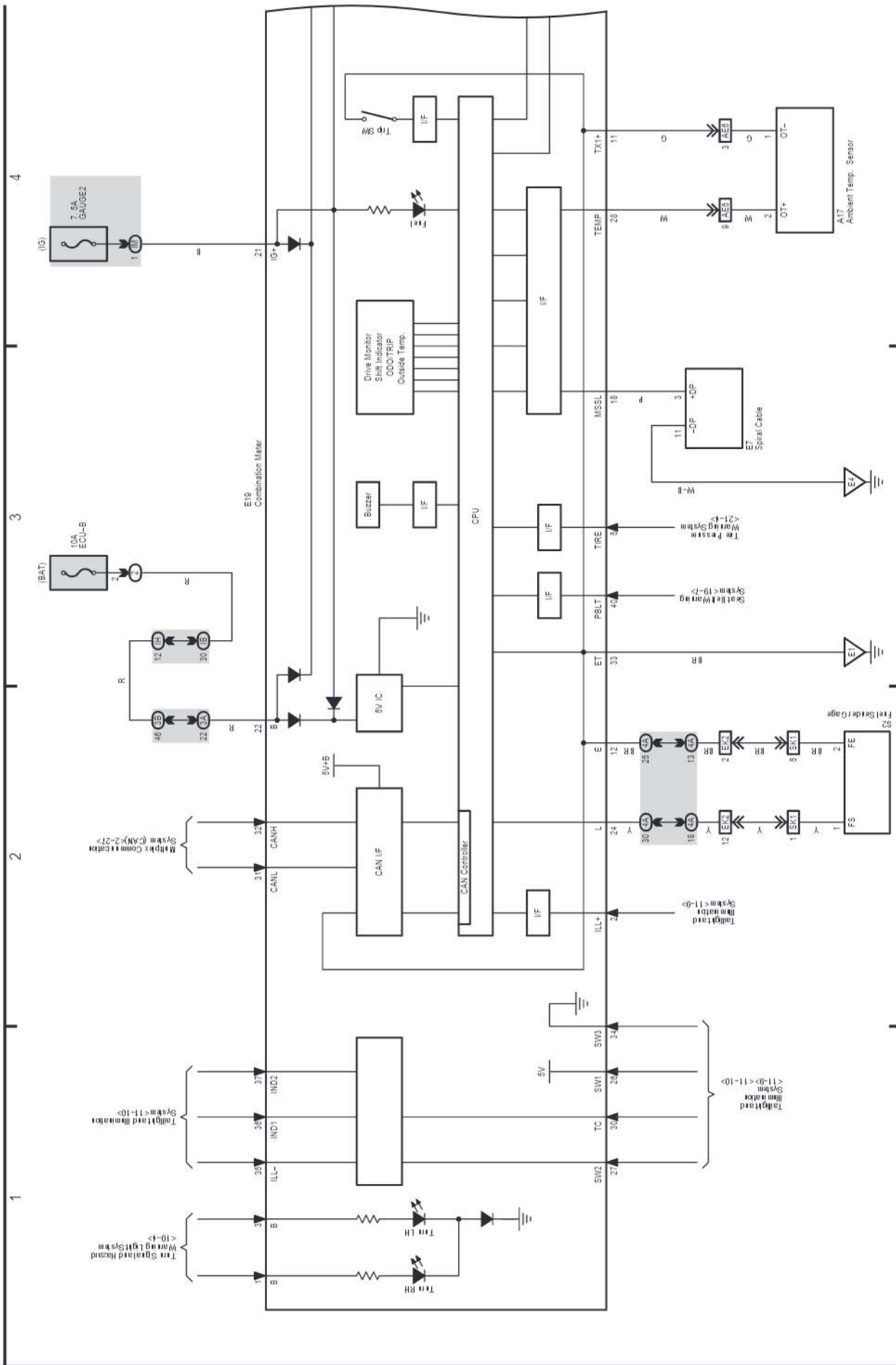
RAV4 (EM16B0U)

M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

28 RAV4

Combination Meter



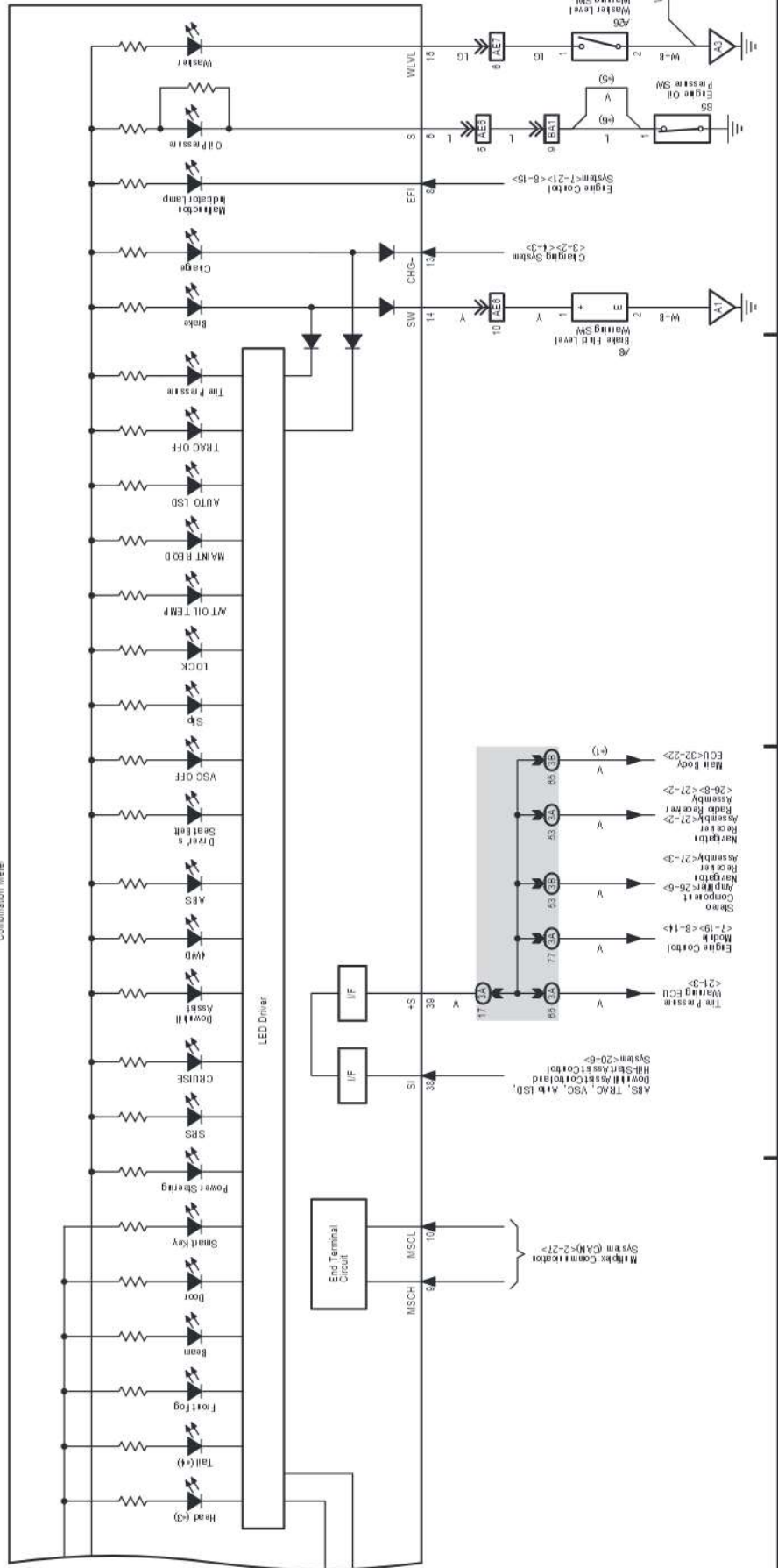
RAV4 (EM16B0U)

* 1 - w/ Smart Key System
 * 3 - USA
 * 4 - Except USA
 * 6 - 2GR-FE
 * 8 - 2AR-FE

Combination Meter

5 6 7 8

E19
Combination Meter

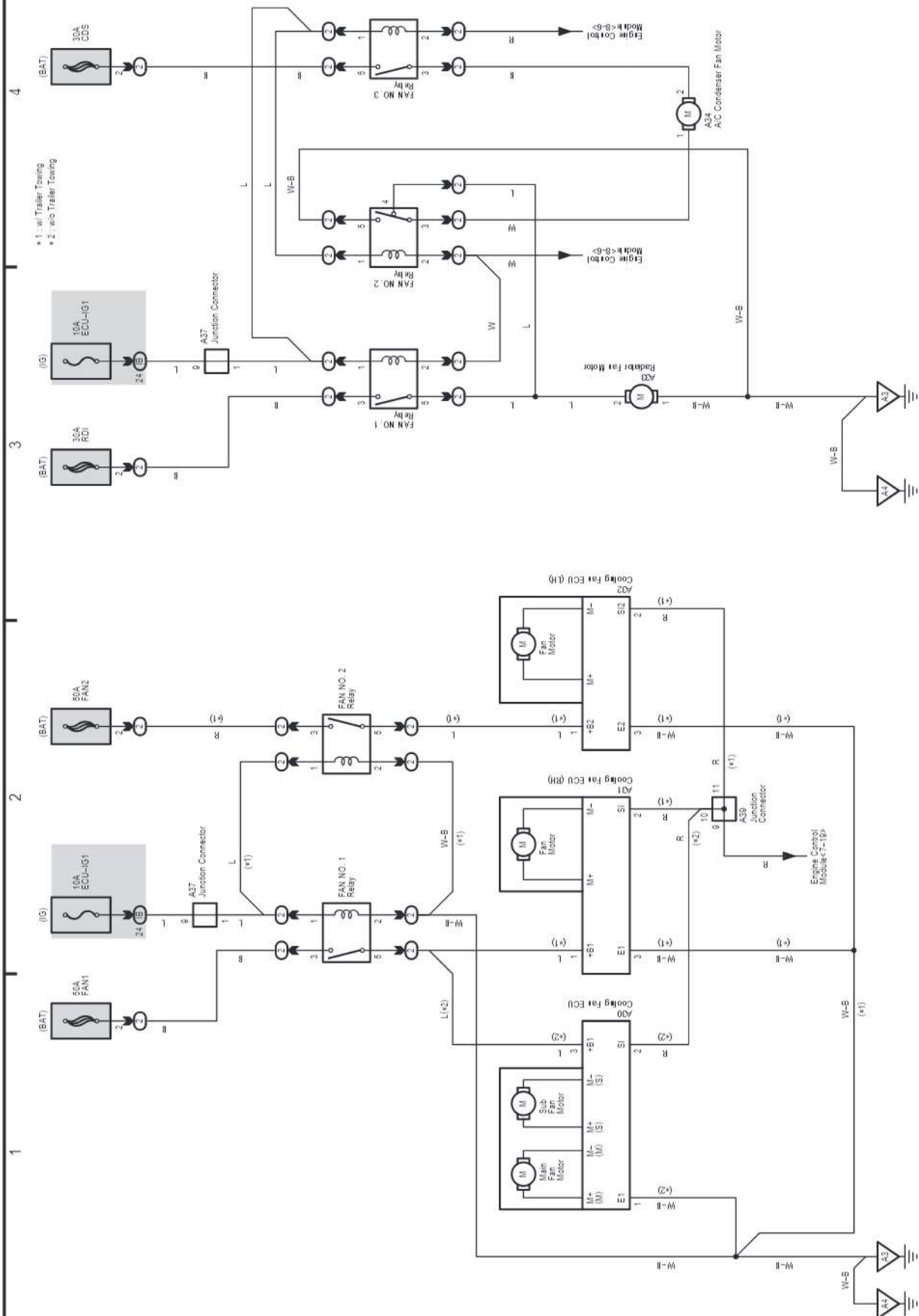


M OVERALL ELECTRICAL WIRING DIAGRAM

29 RAV4

Cooling Fan (2GR-FE)

Radiator Fan and Condenser Fan (2AR-FE)

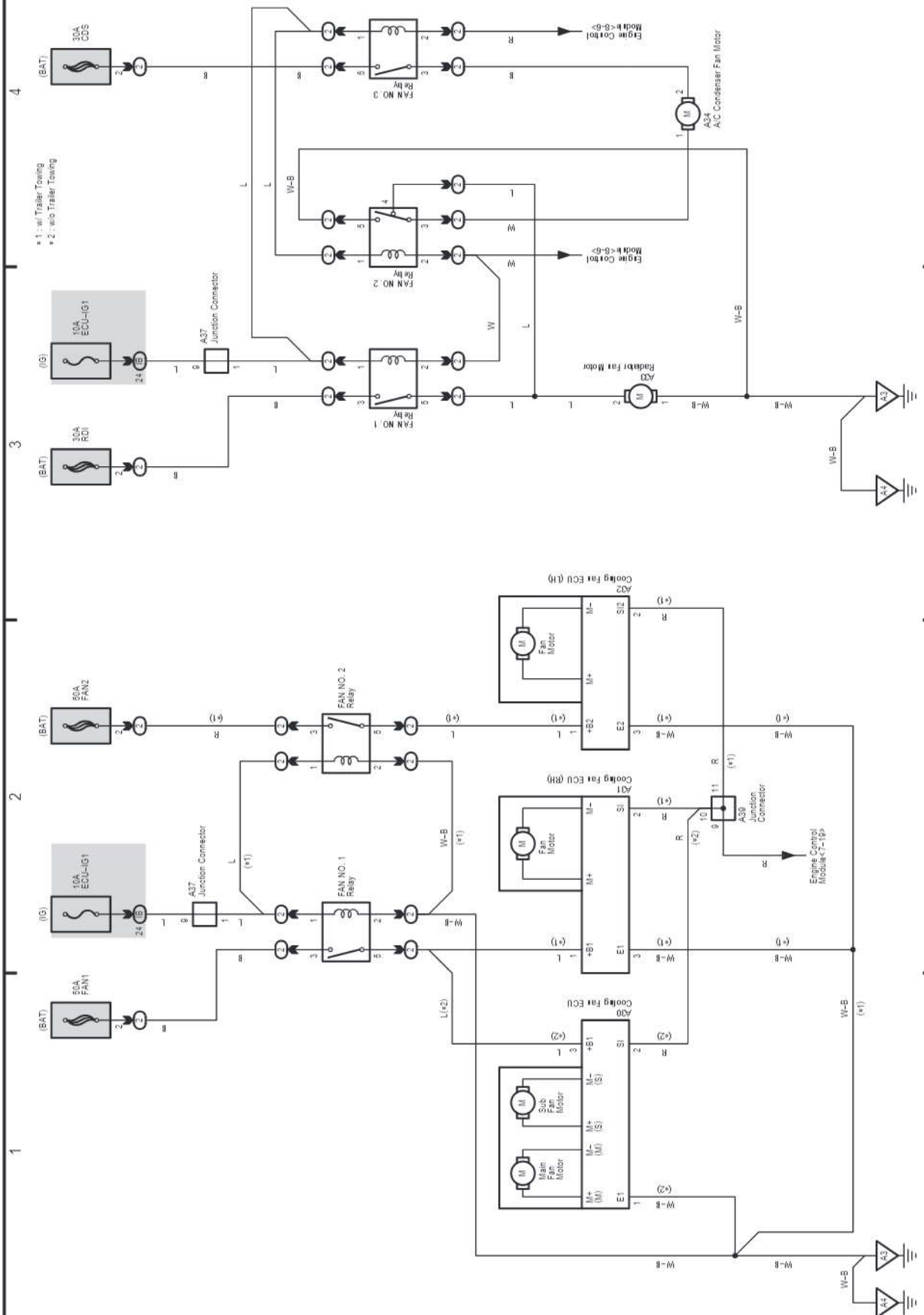


M OVERALL ELECTRICAL WIRING DIAGRAM

29 RAV4

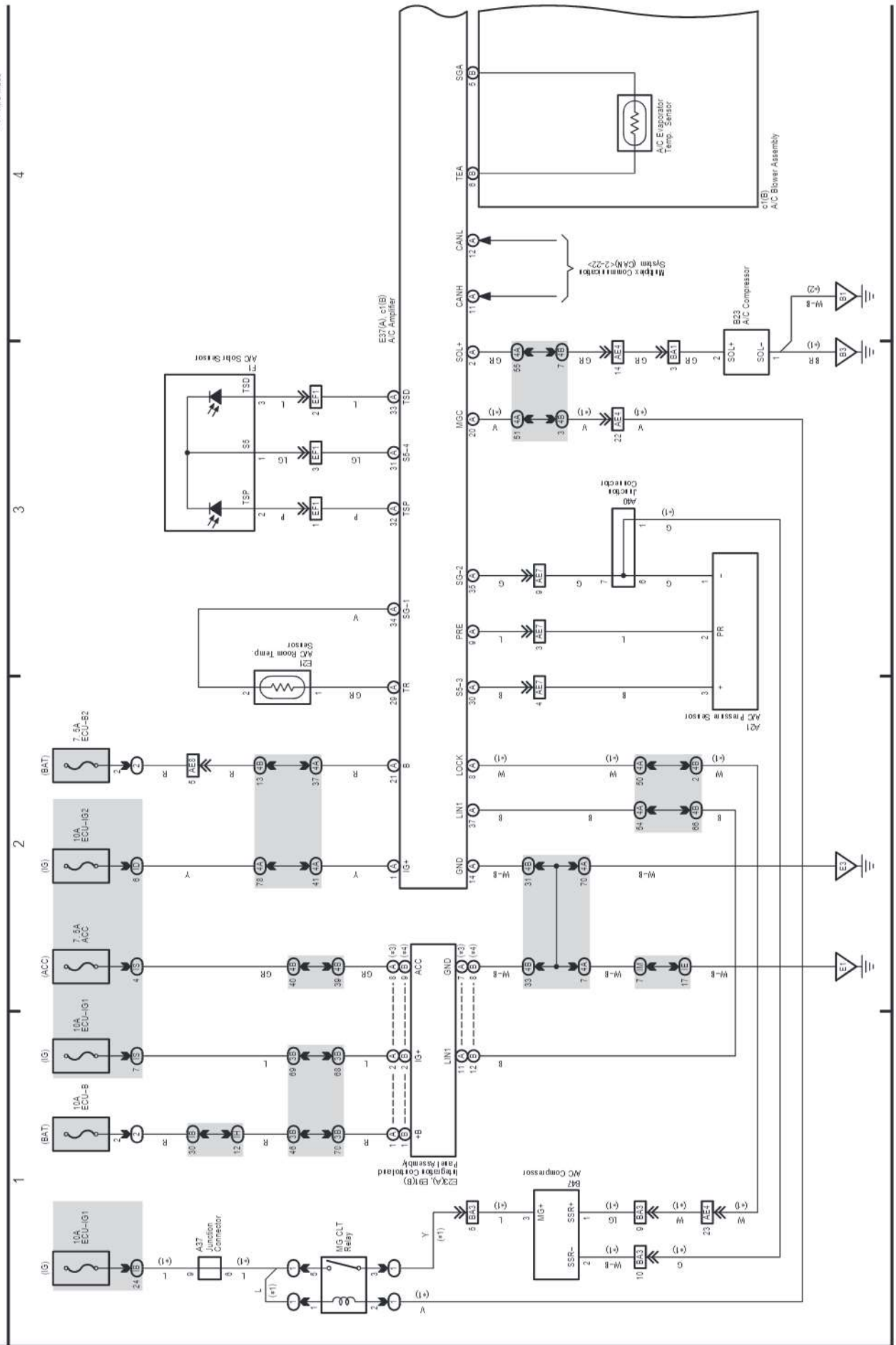
Cooling Fan (2GR-FE)

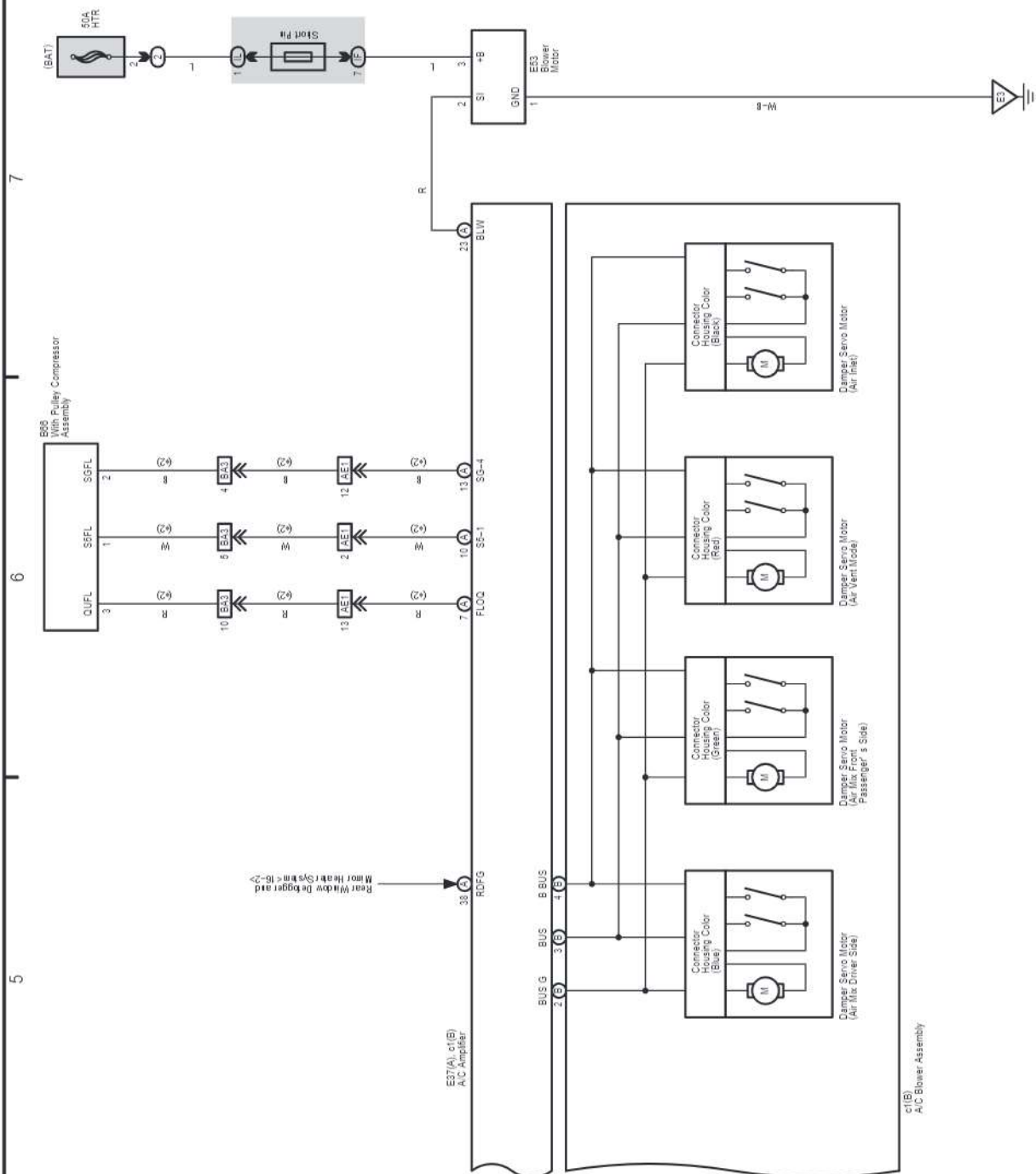
Radiator Fan and Condenser Fan (2AR-FE)



Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)

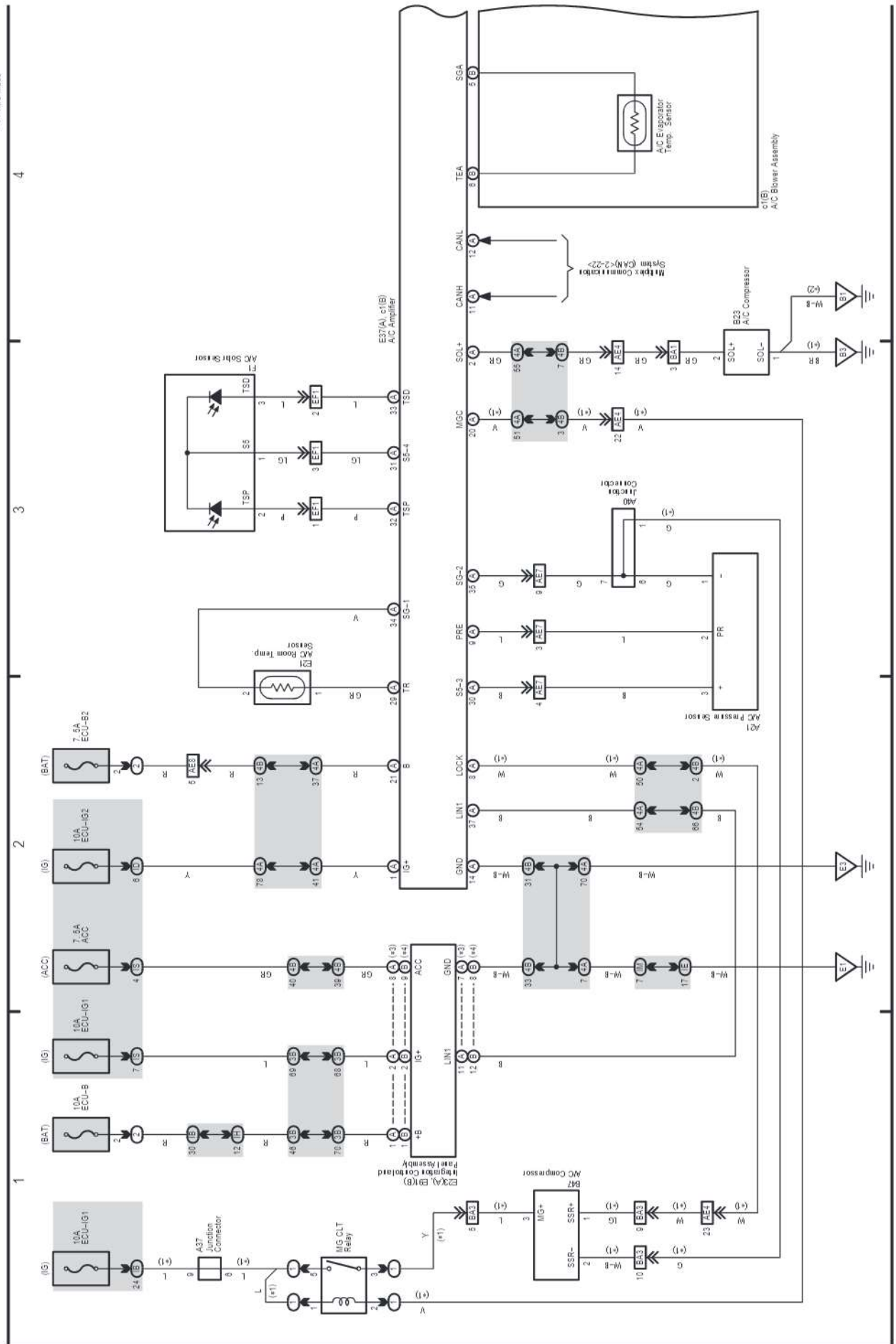
- *1: 2GR-FE
 *2: 2AR-FE
 *3: TMMC Made
 *4: TMC Made

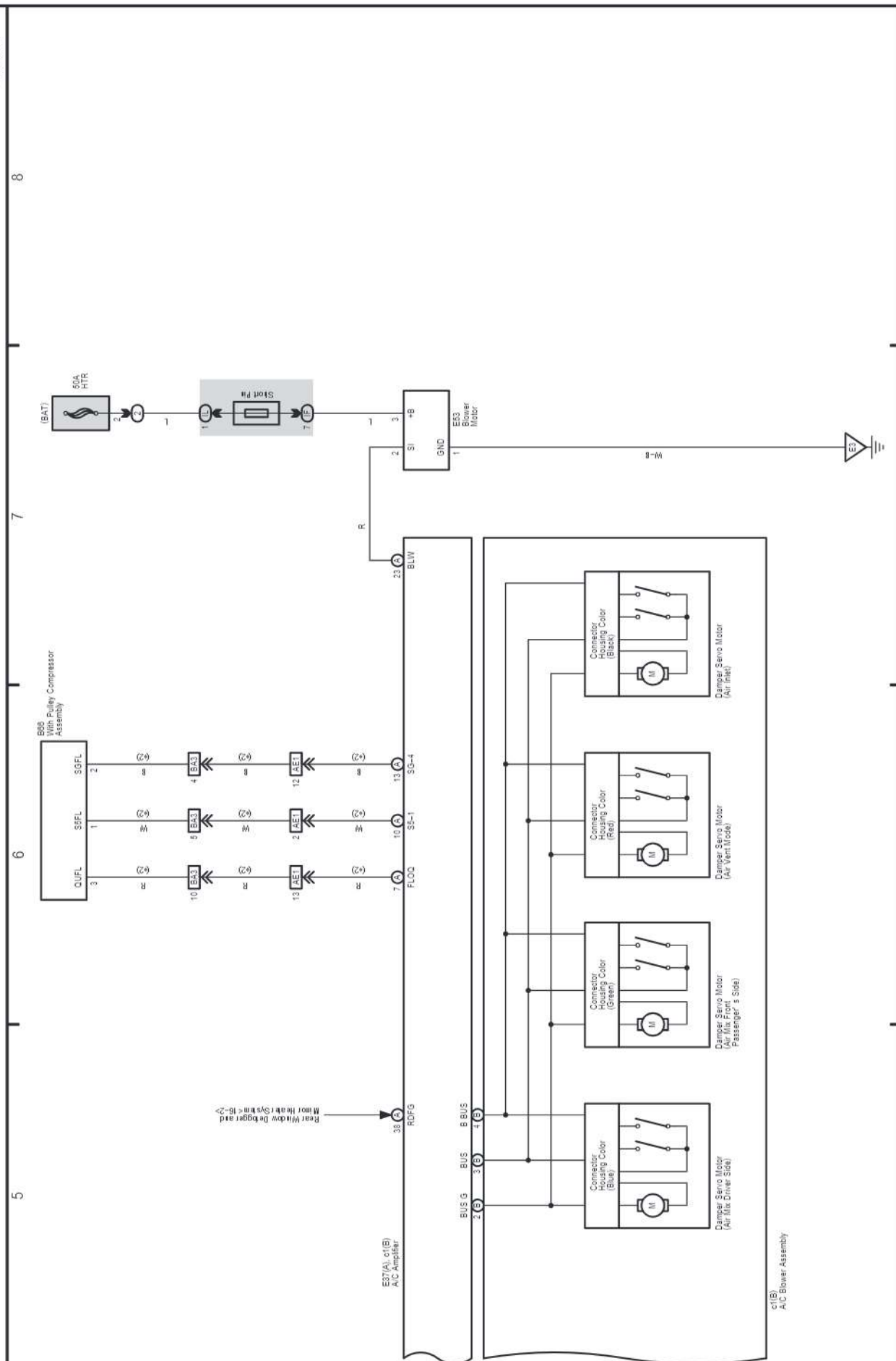




- *1: 2GR-FE
- *2: 2AR-FE
- *3: TMMC Made
- *4: TMC Made

Automatic Air Conditioning and Clock (w/ Automatic Air Conditioning)





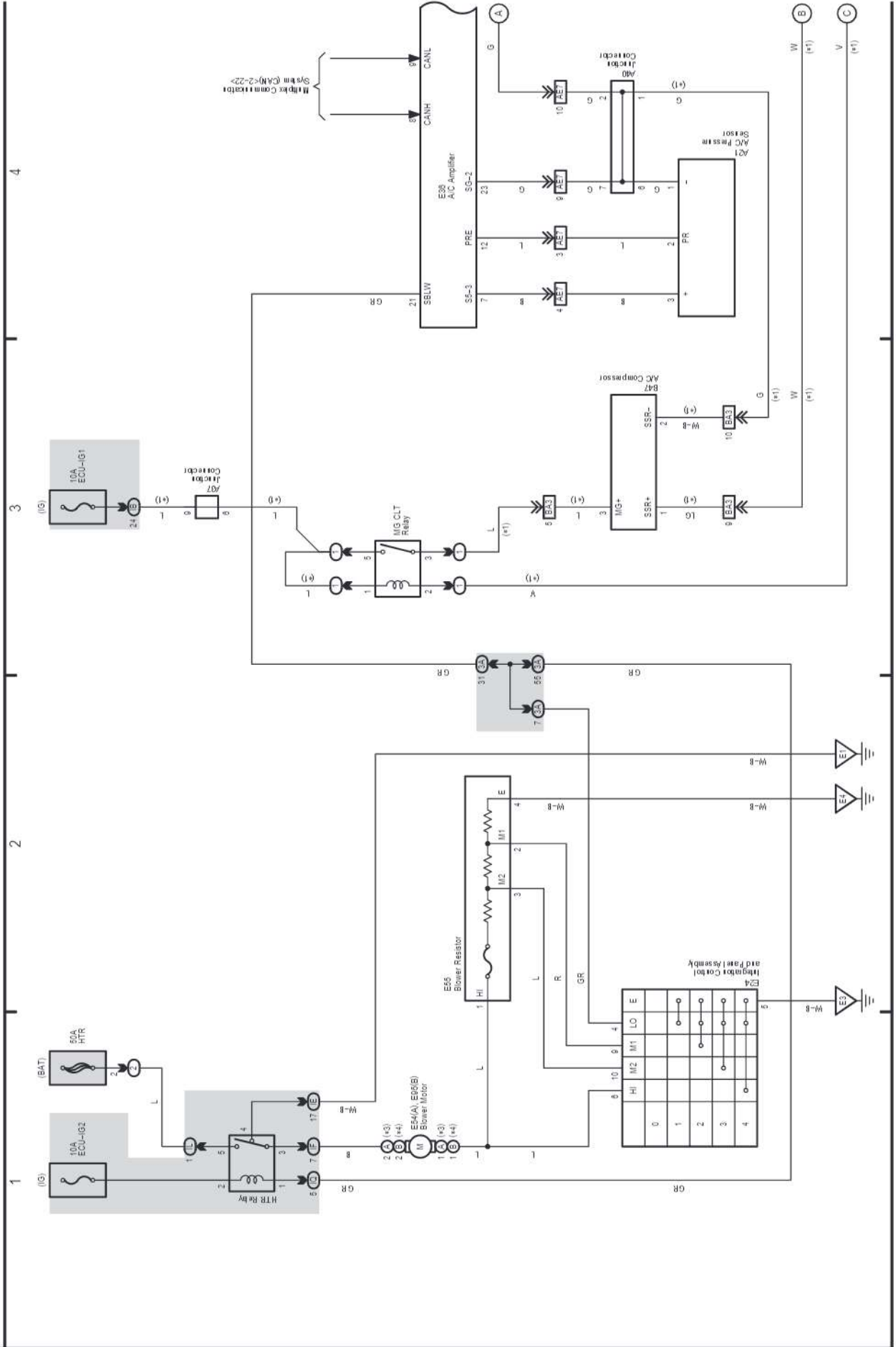
M OVERALL ELECTRICAL WIRING DIAGRAM

31 RAV4

(Cont. next page)

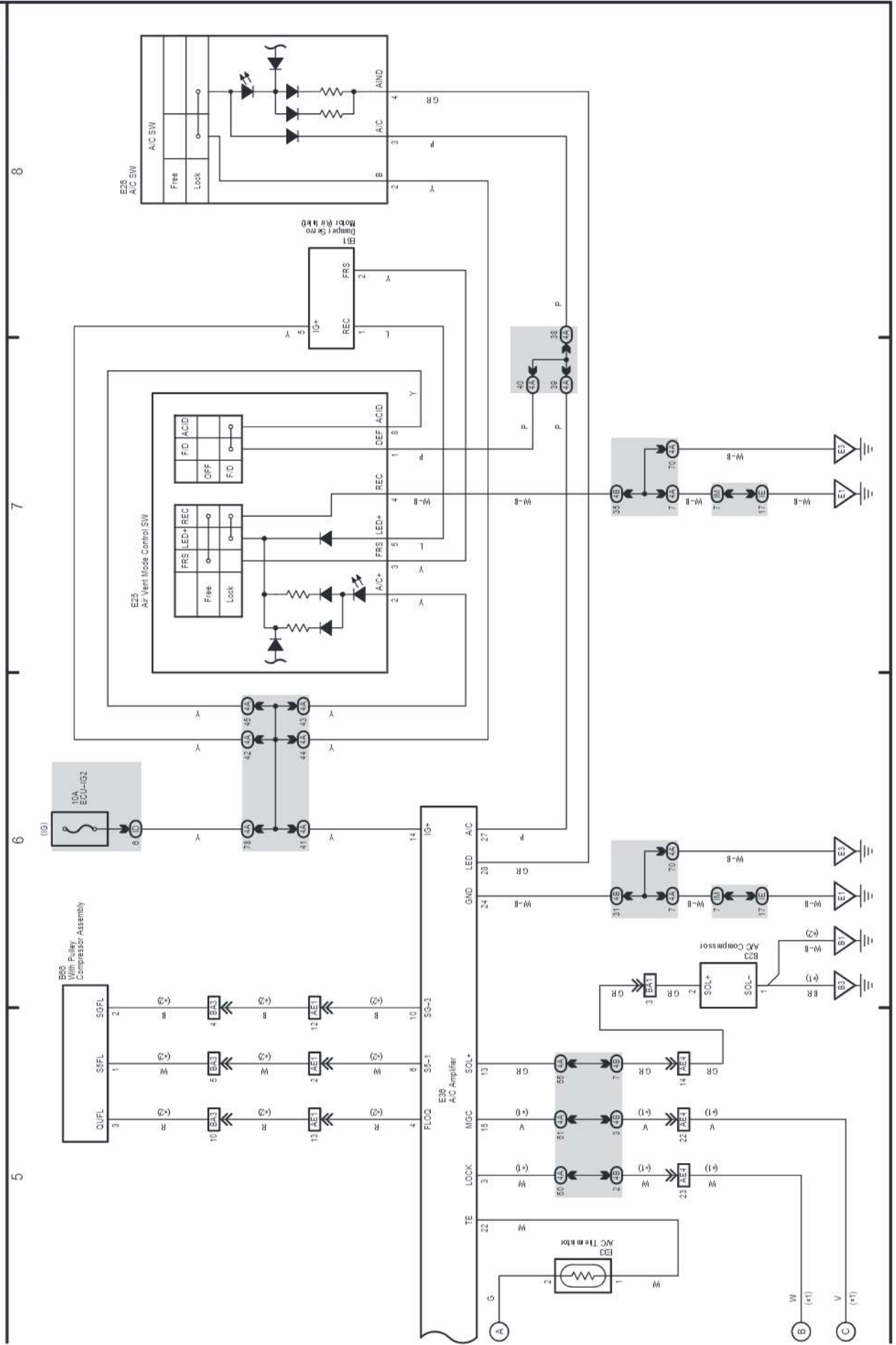
* 1 : 2GR-FE
* 3 : TMMC Made
* 4 : TMC Made

Manual Air Conditioning



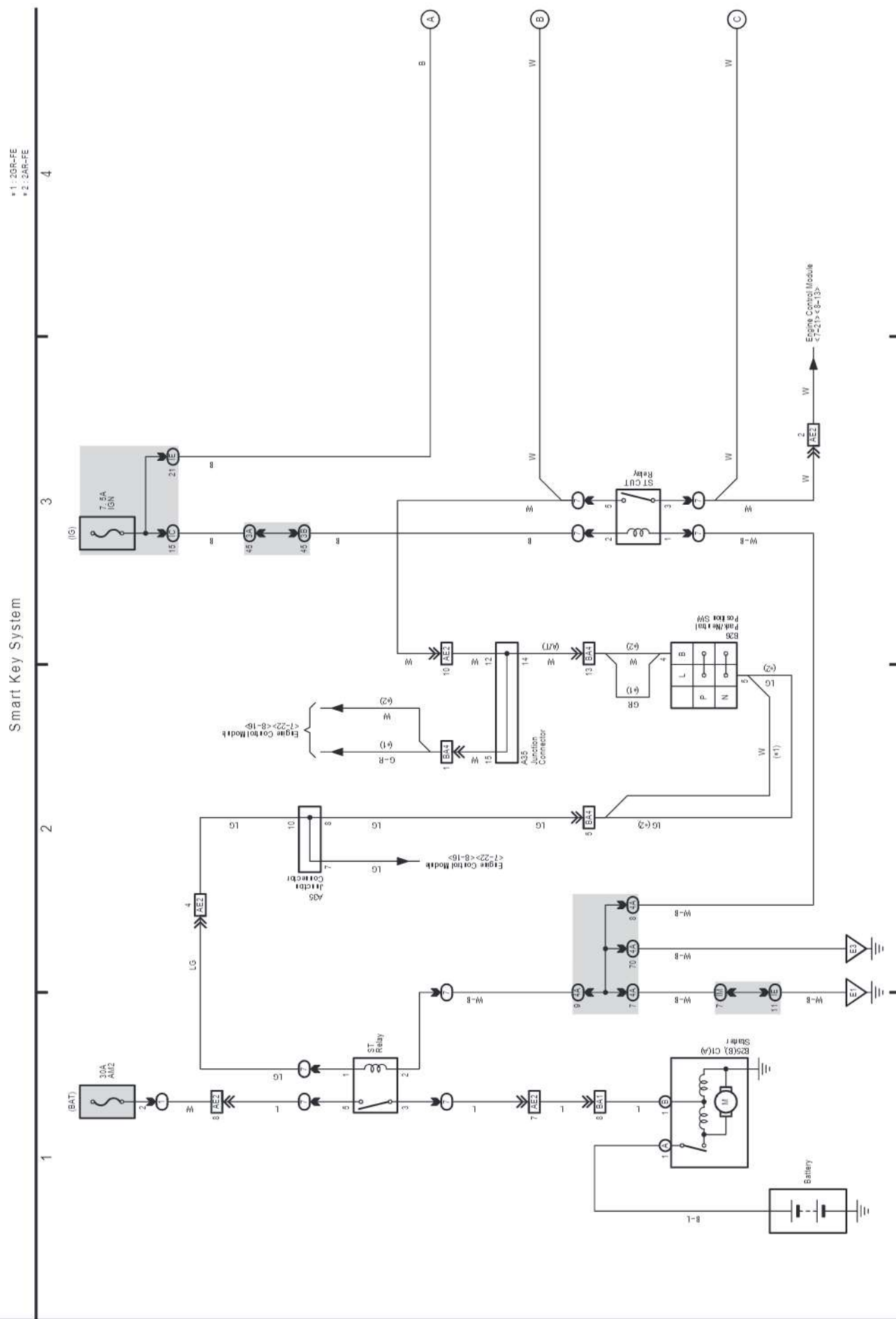
Manual Air Conditioning

*1: 209-PE
*2: 258-PE



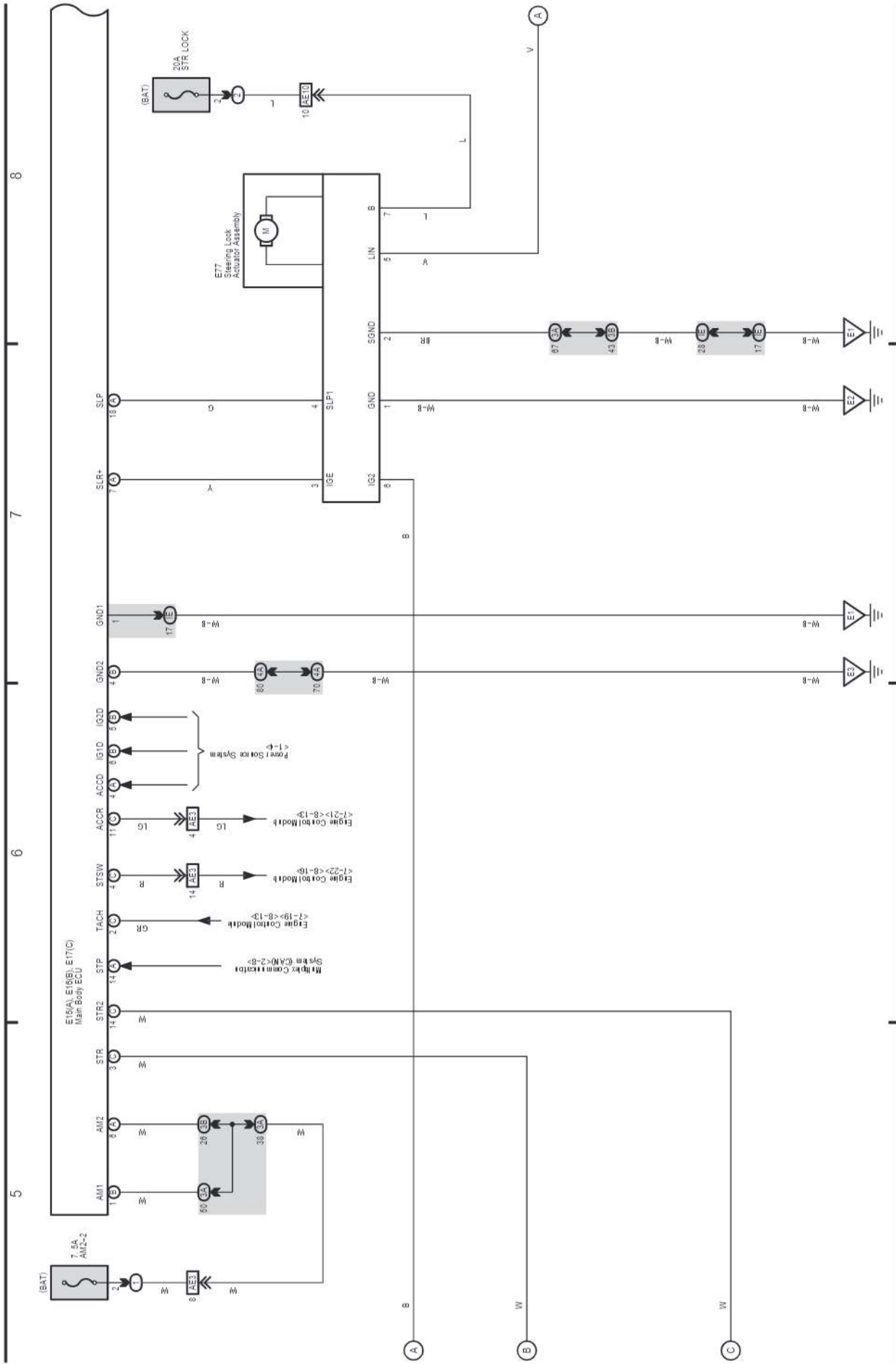
(Cont. next page)

(Cont. next page)

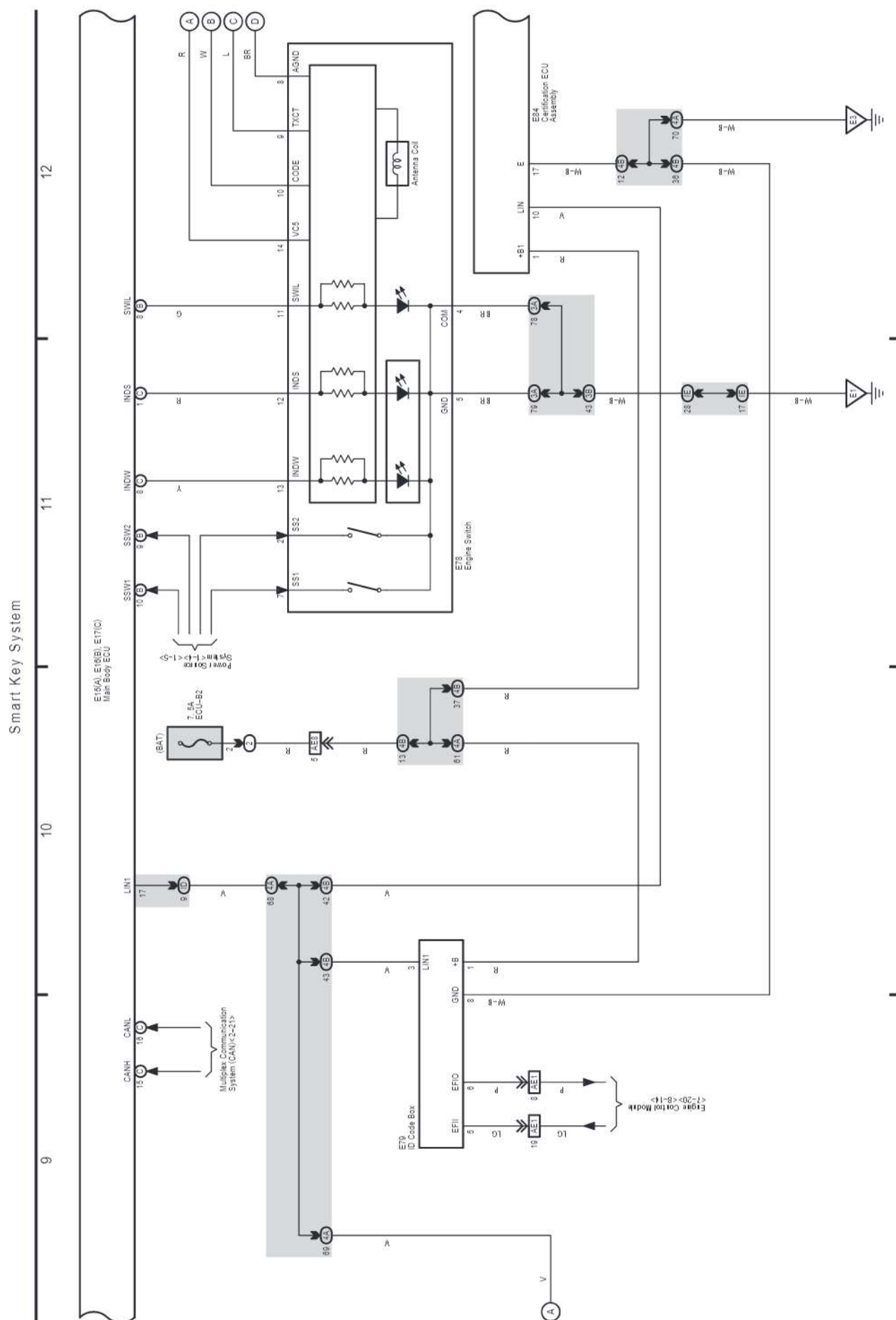


RAV4 (EM16B0U)

Smart Key System



M OVERALL ELECTRICAL WIRING DIAGRAM



Smart Key System

* 3 - TMMIC Made
* 4 - TMC Made

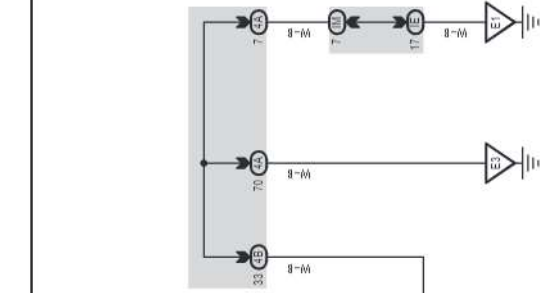
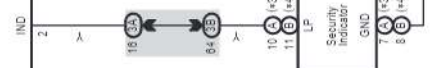
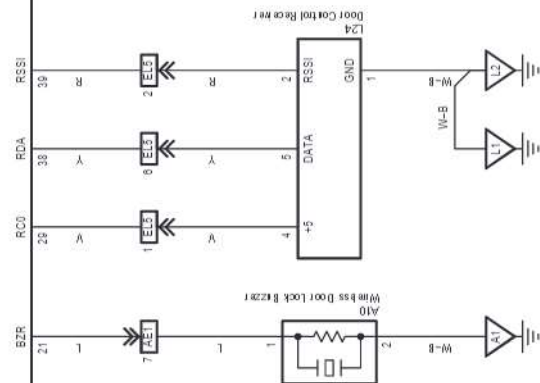
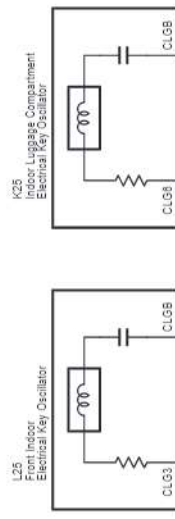
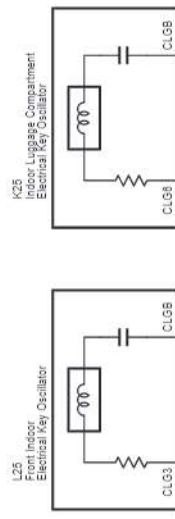
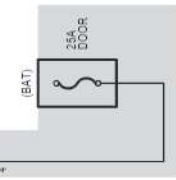
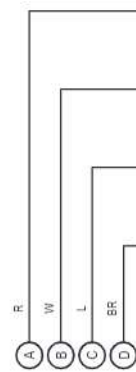
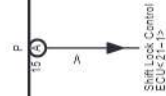
13

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E16(A), E16(B), E17(C)
Main Body ECU

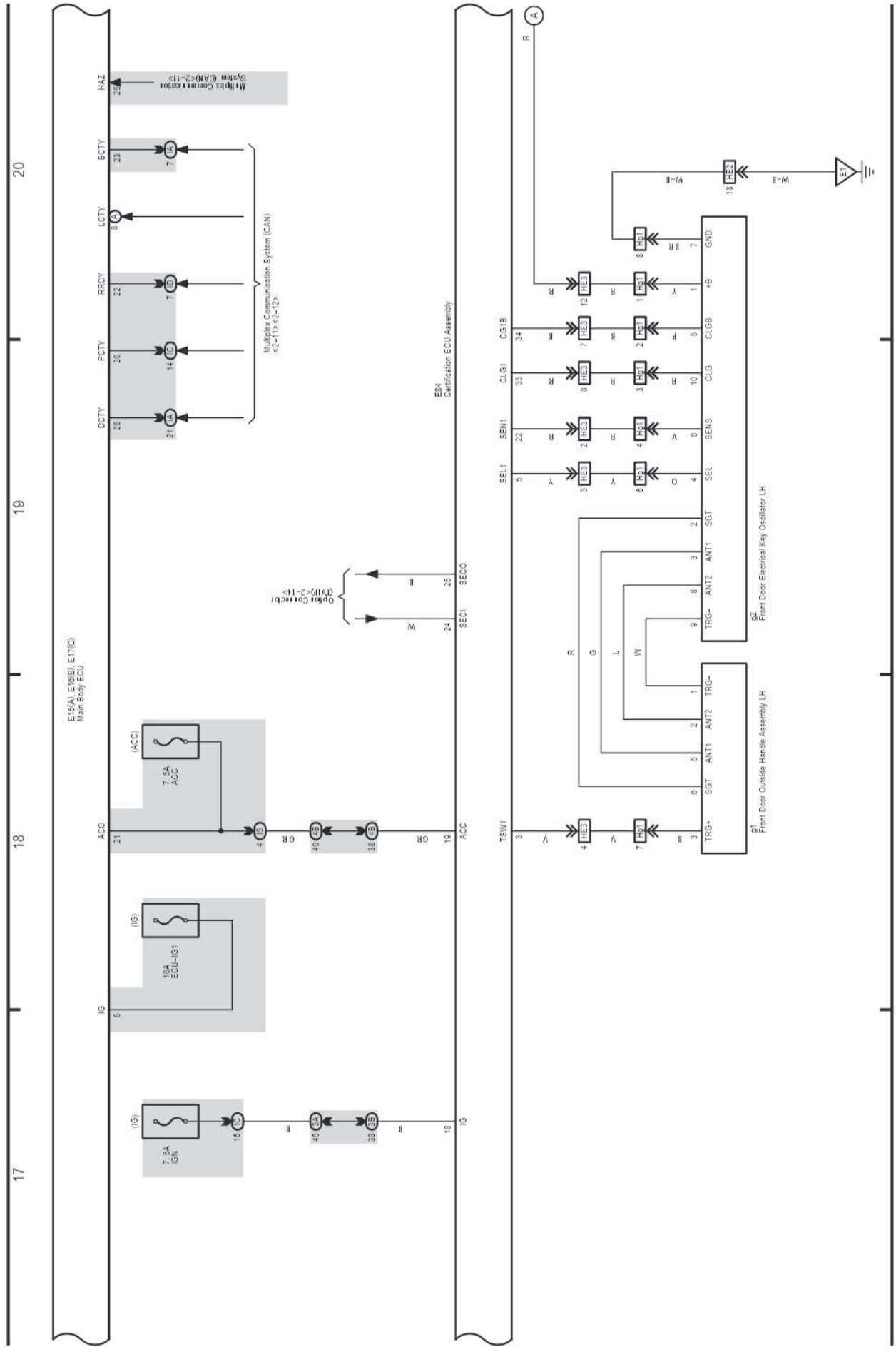


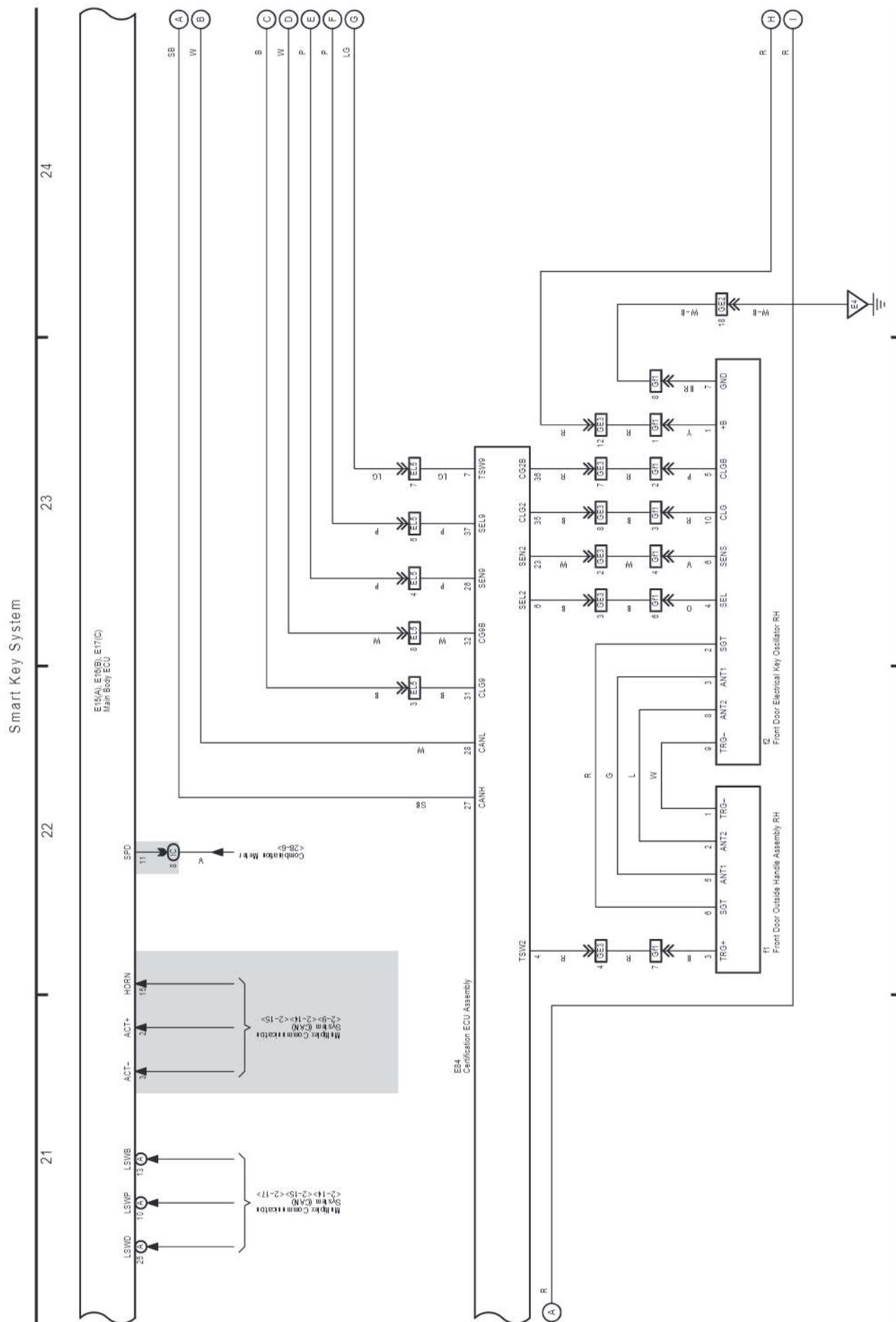
M OVERALL ELECTRICAL WIRING DIAGRAM

32 RAV4 (Cont' d)

(Cont. next page)

Smart Key System

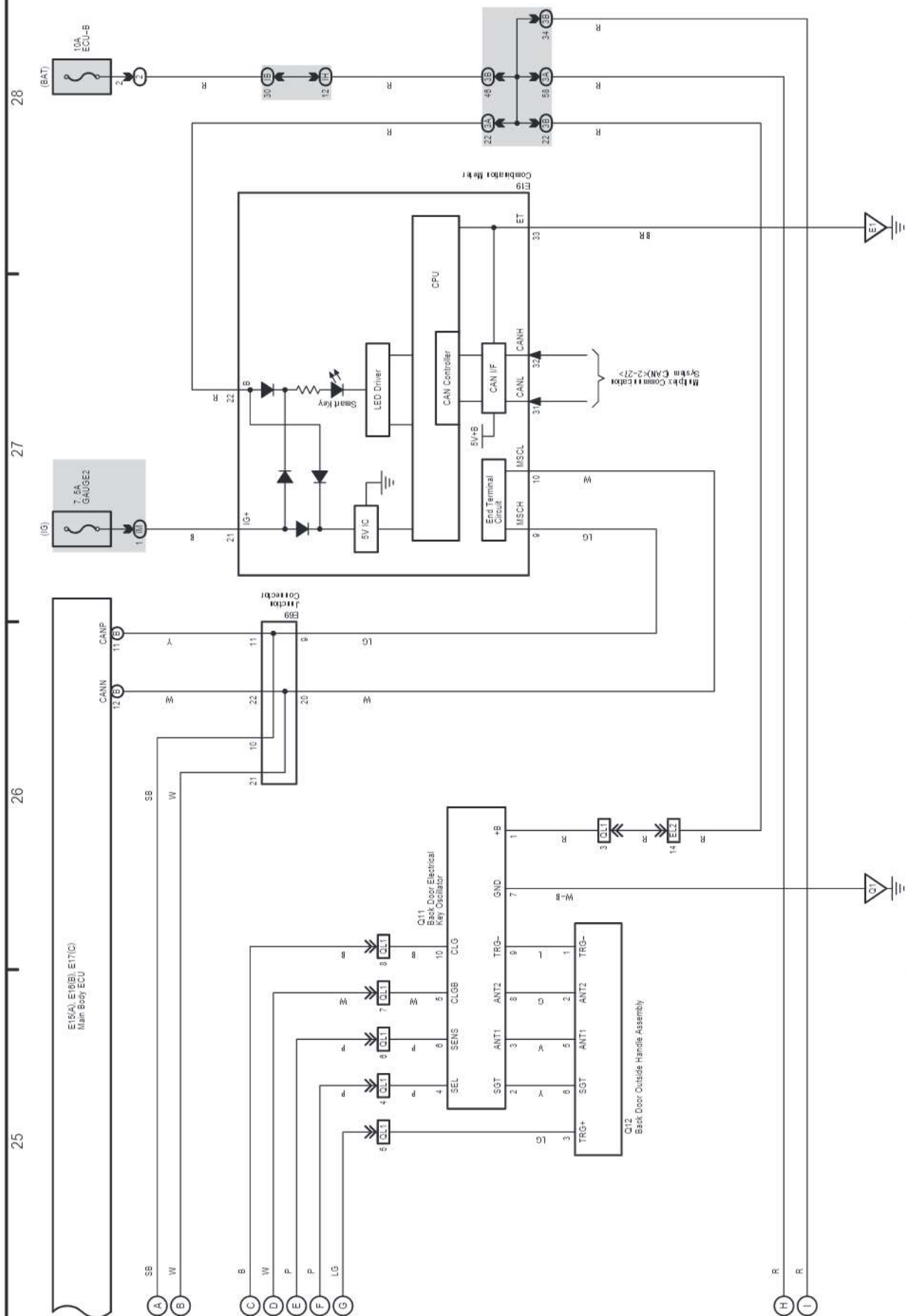




M OVERALL ELECTRICAL WIRING DIAGRAM

32 RAV4 (Cont'd)

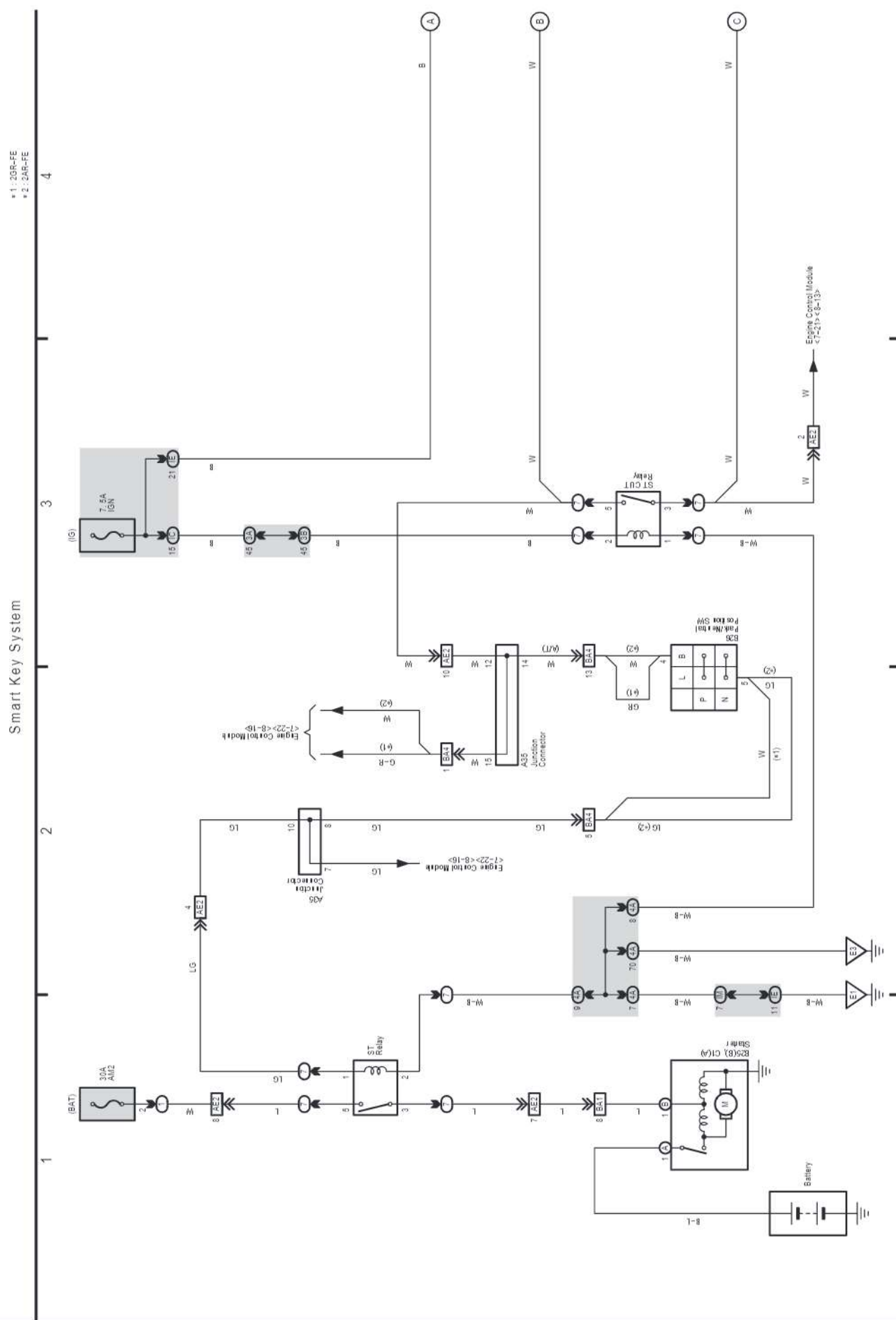
Smart Key System



RAV4 (EM16B0U)

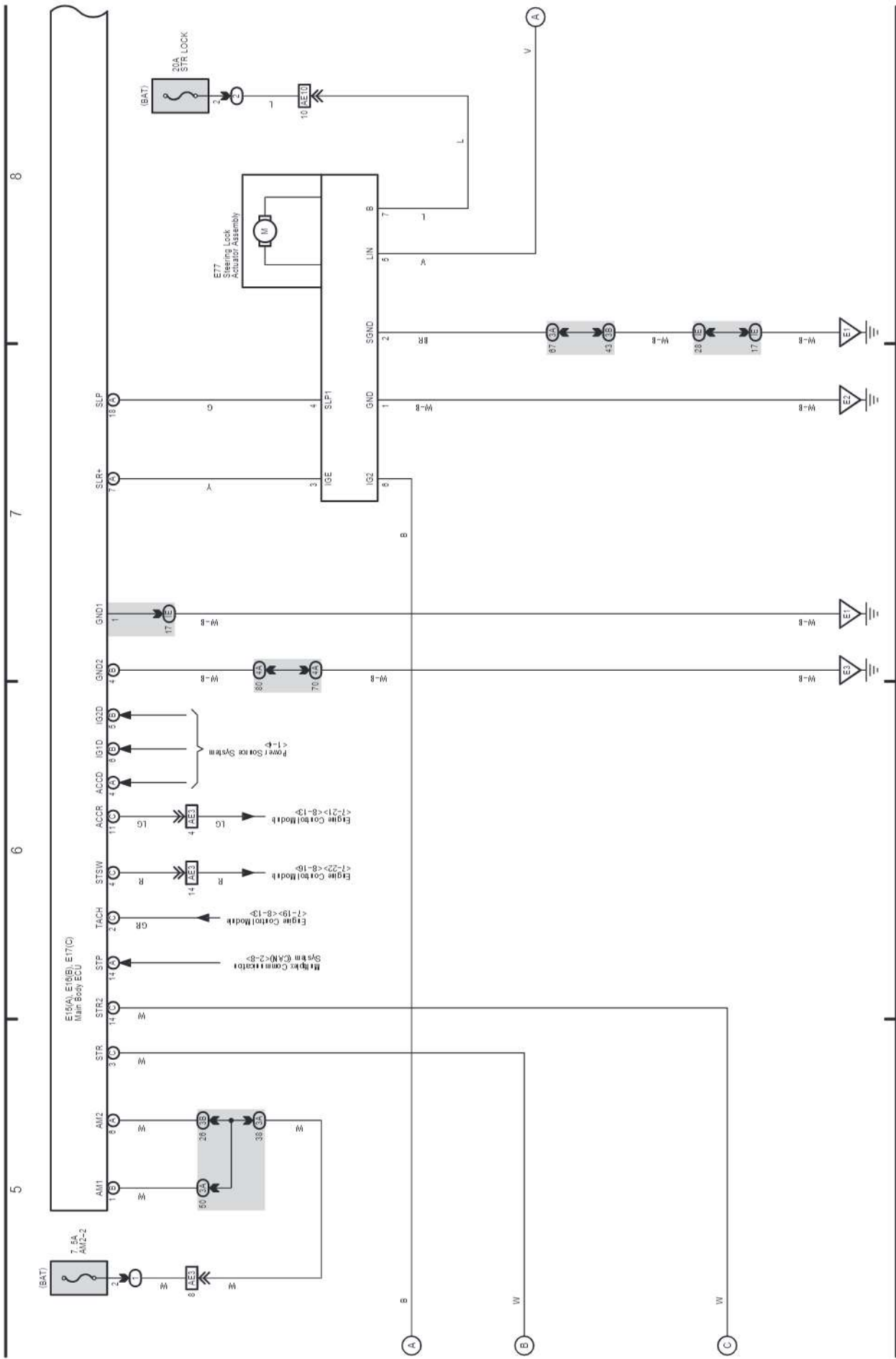
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RAV4 (EM16B0U)

Smart Key System

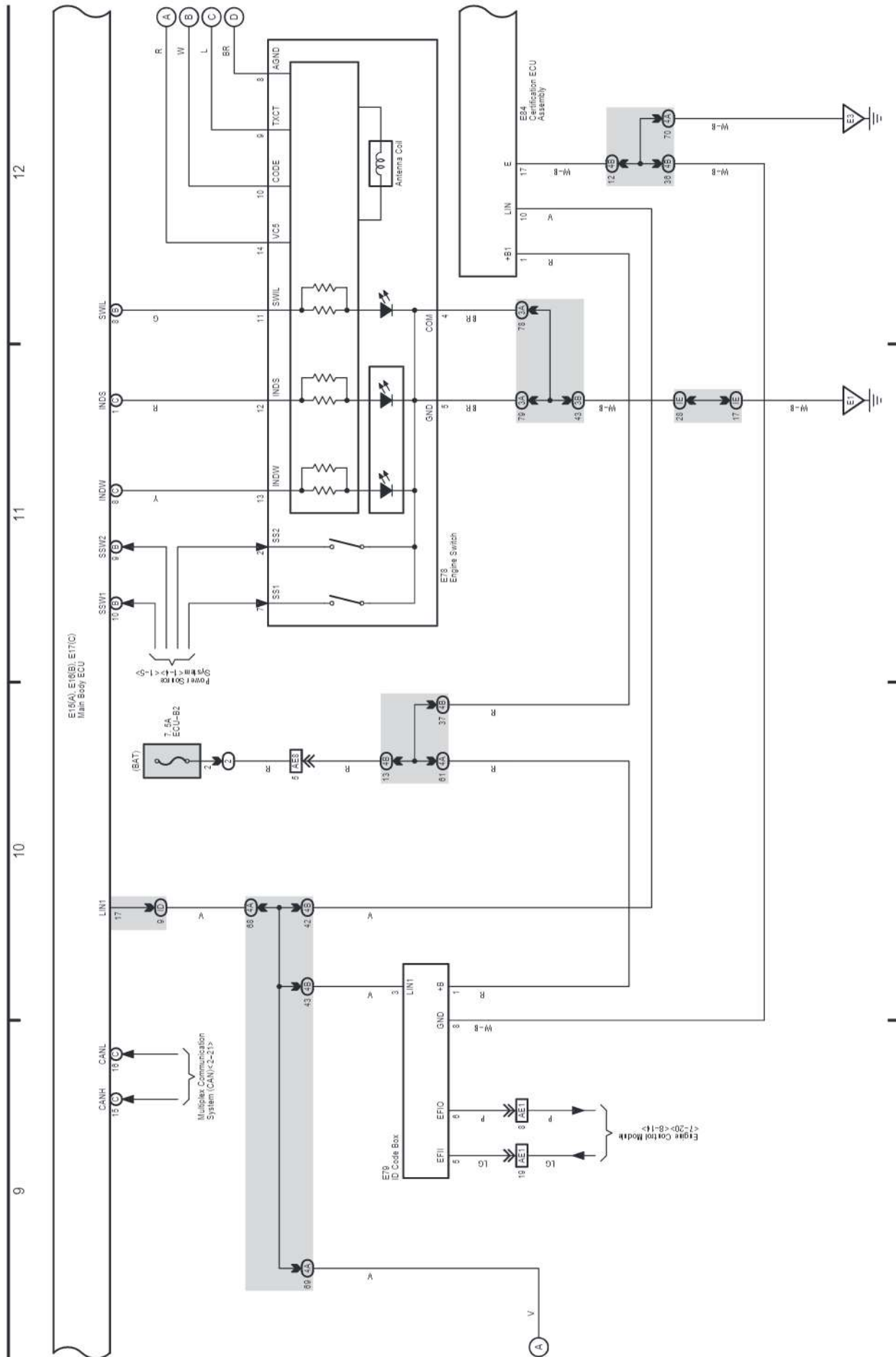


M OVERALL ELECTRICAL WIRING DIAGRAM

32 RAV4 (Cont' d)

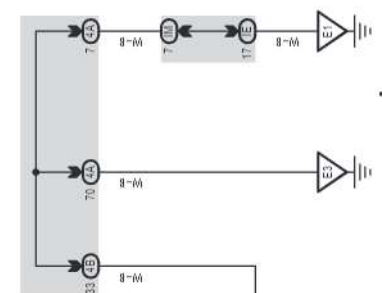
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Smart Key System



16

3 : TMMC Made
4 : TMC Made

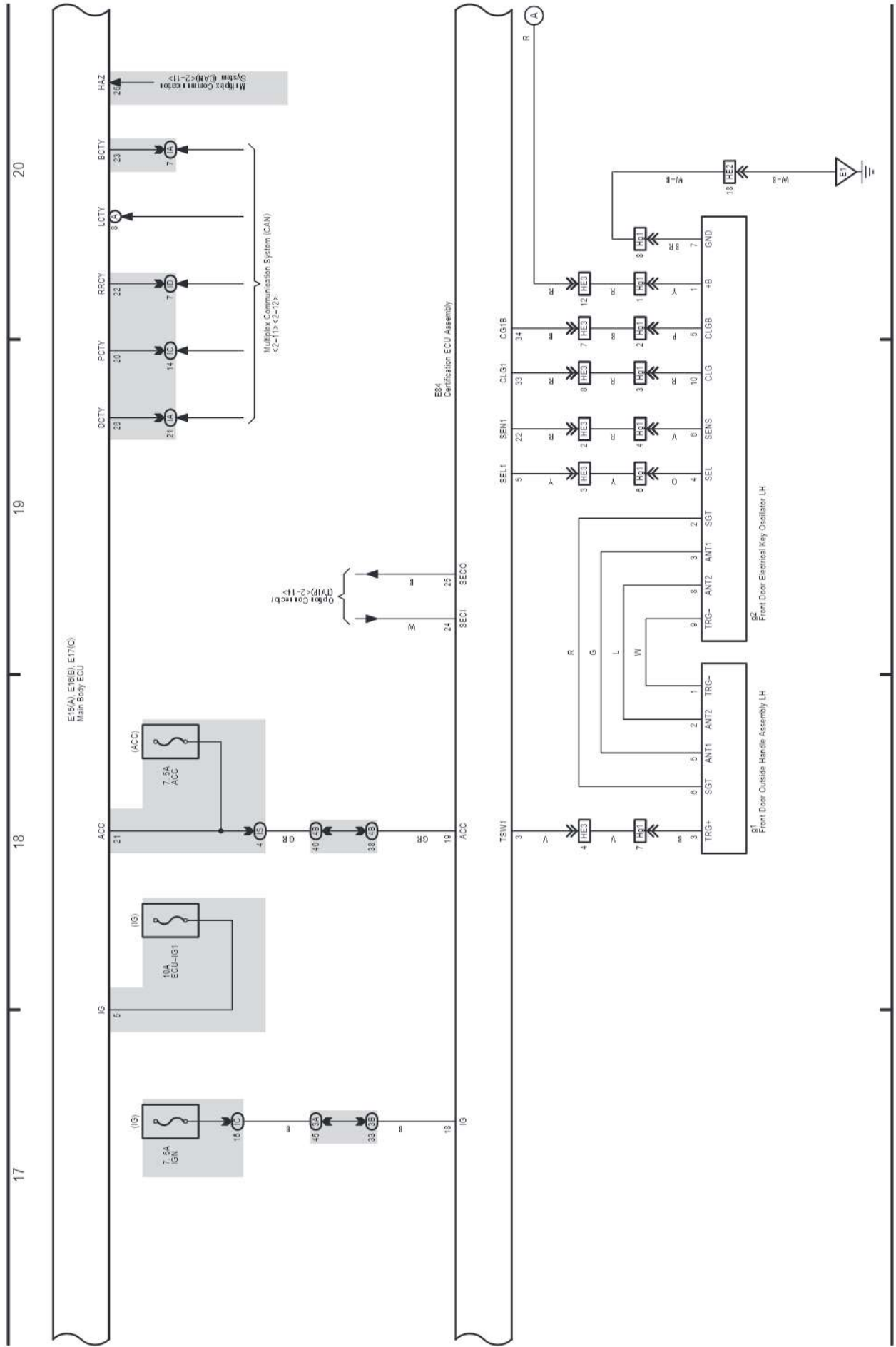


M OVERALL ELECTRICAL WIRING DIAGRAM

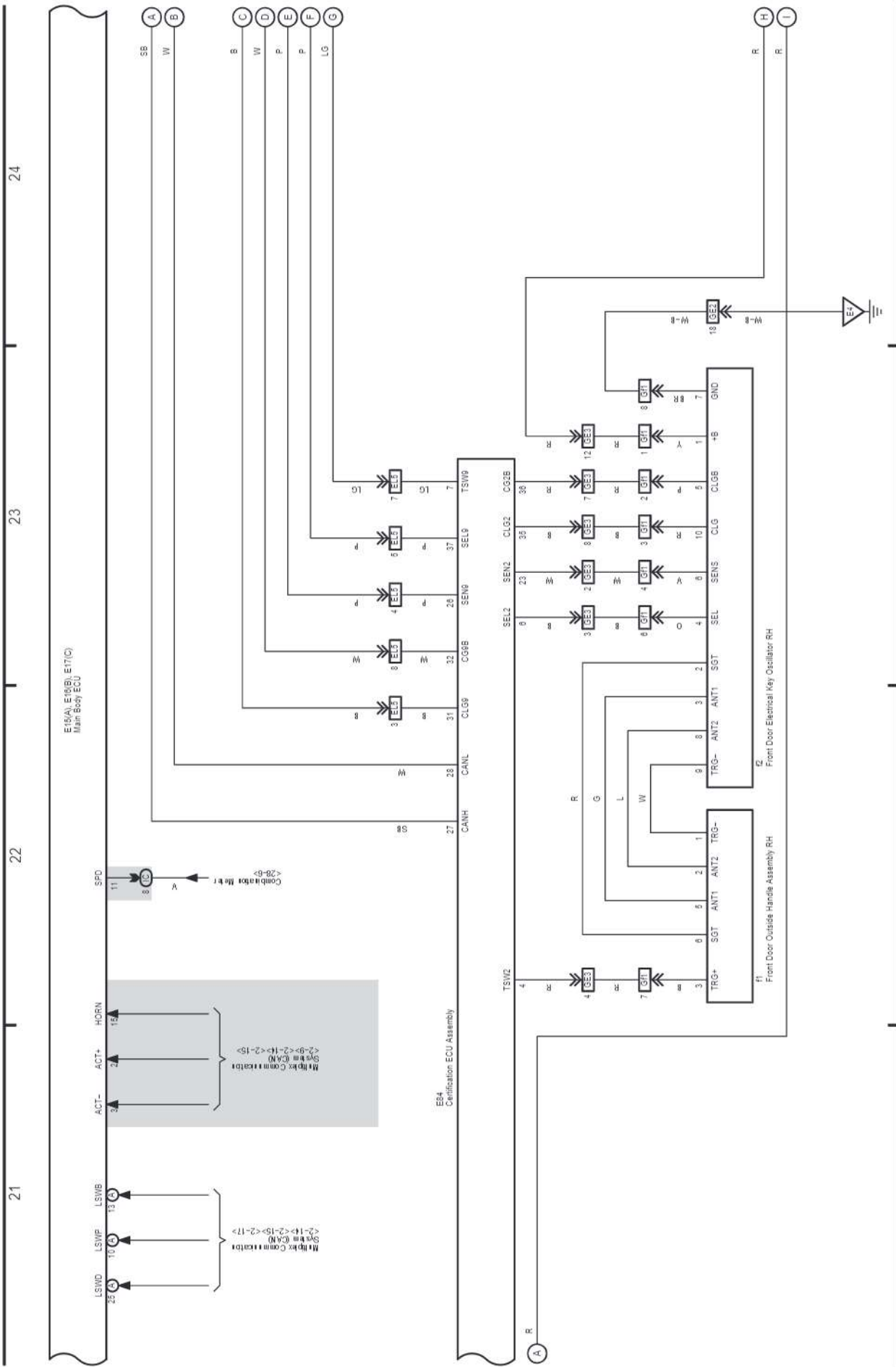
32 RAV4 (Cont' d)

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Smart Key System



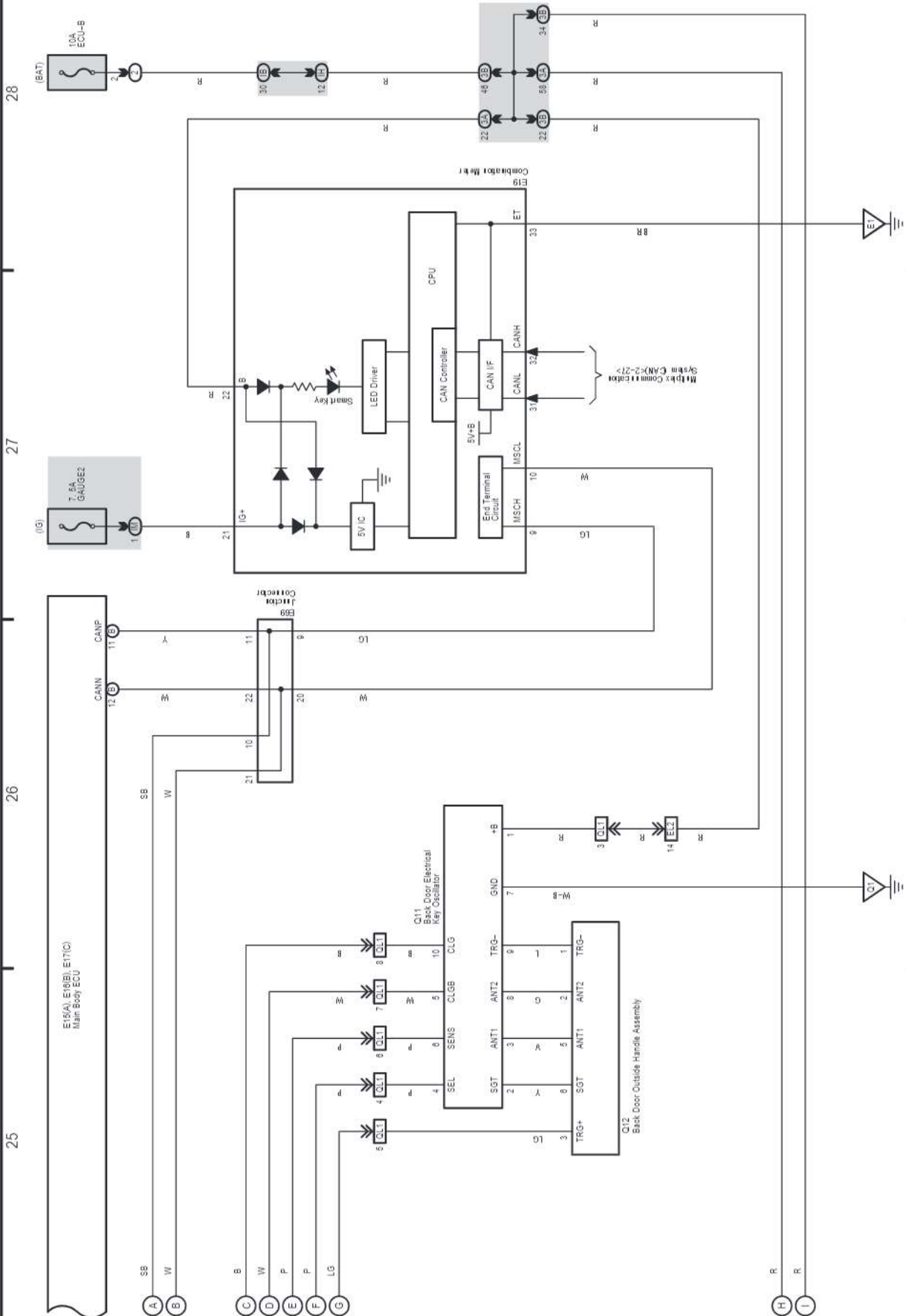
Smart Key System



M OVERALL ELECTRICAL WIRING DIAGRAM

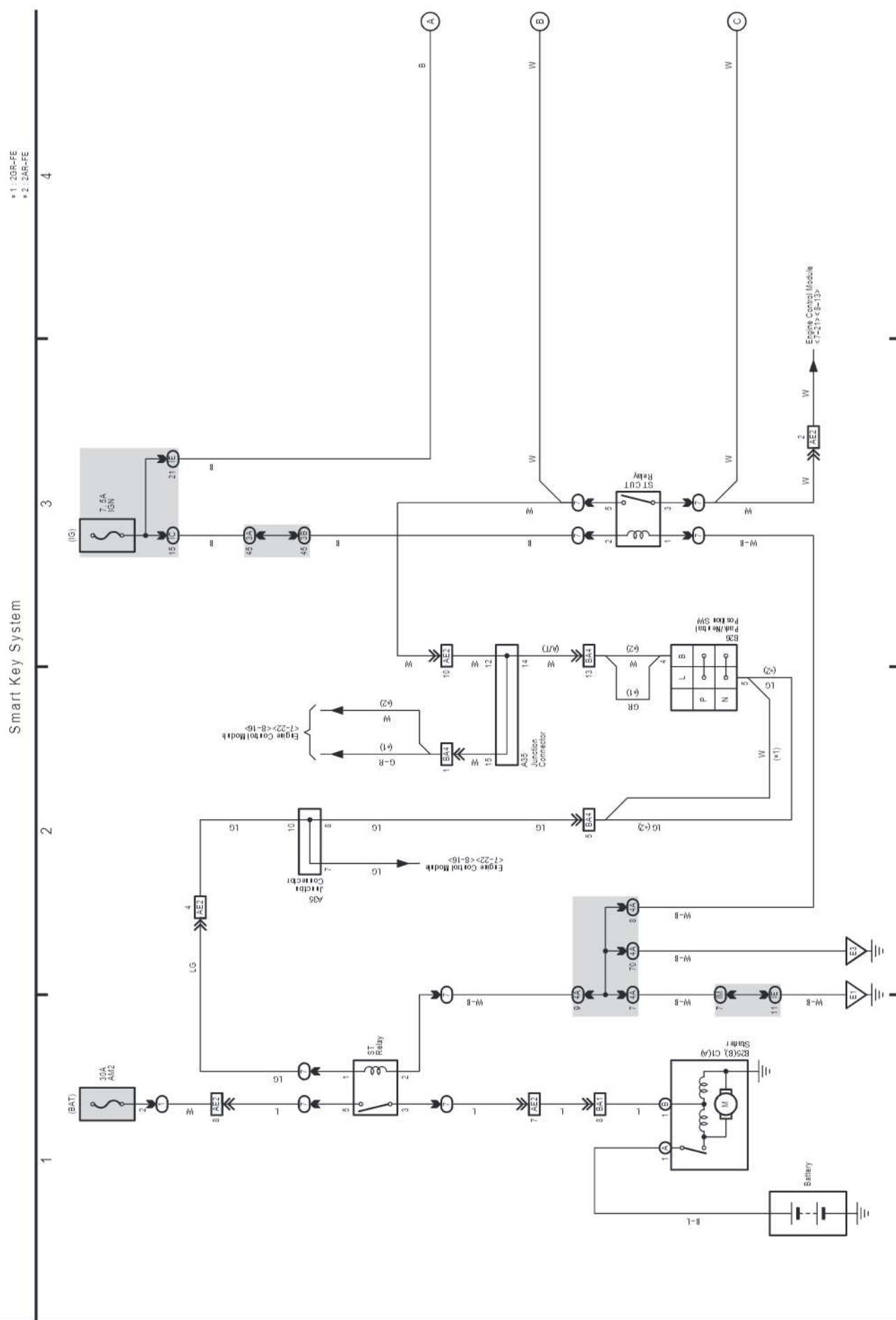
32 RAV4 (Cont'd)

Smart Key System

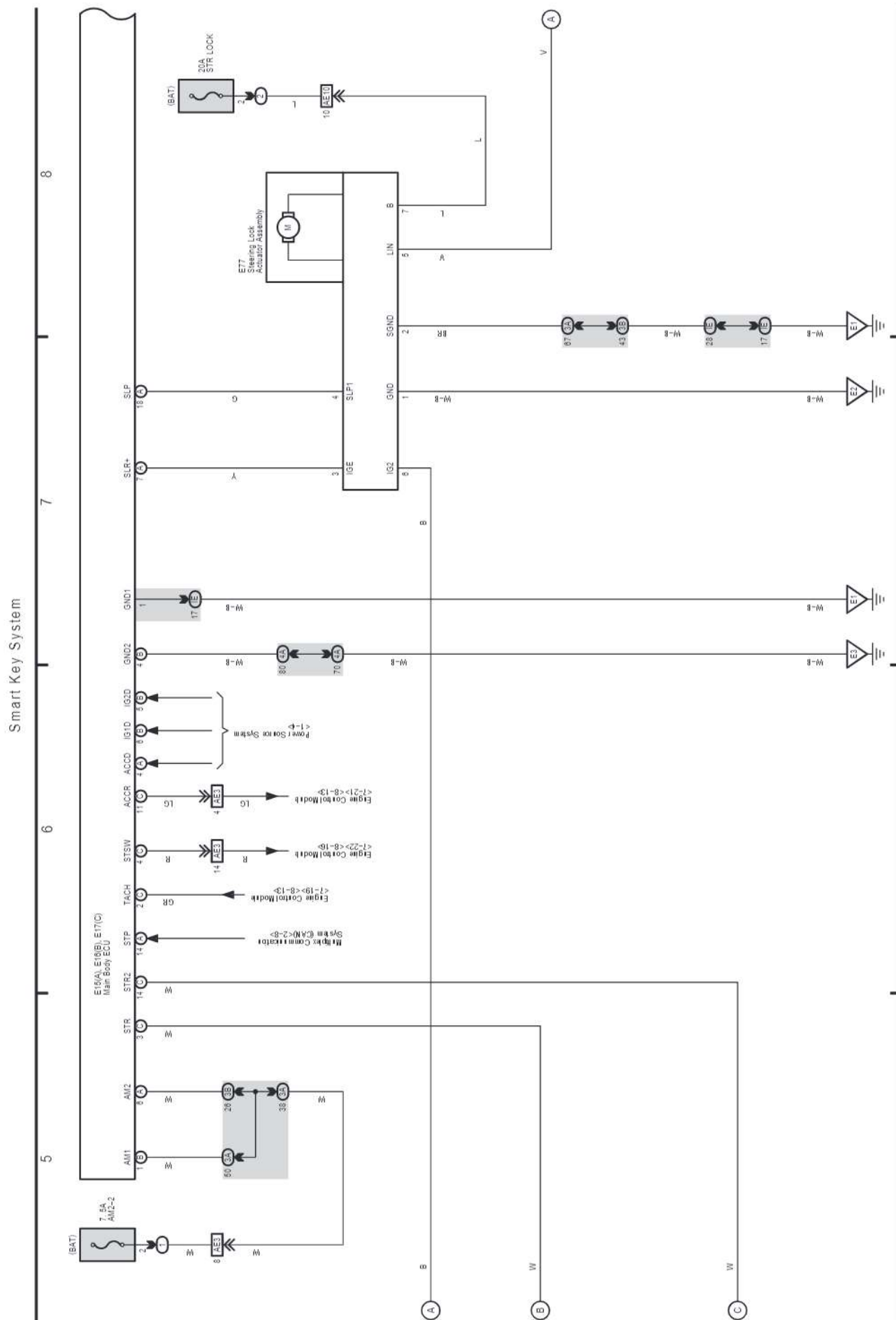


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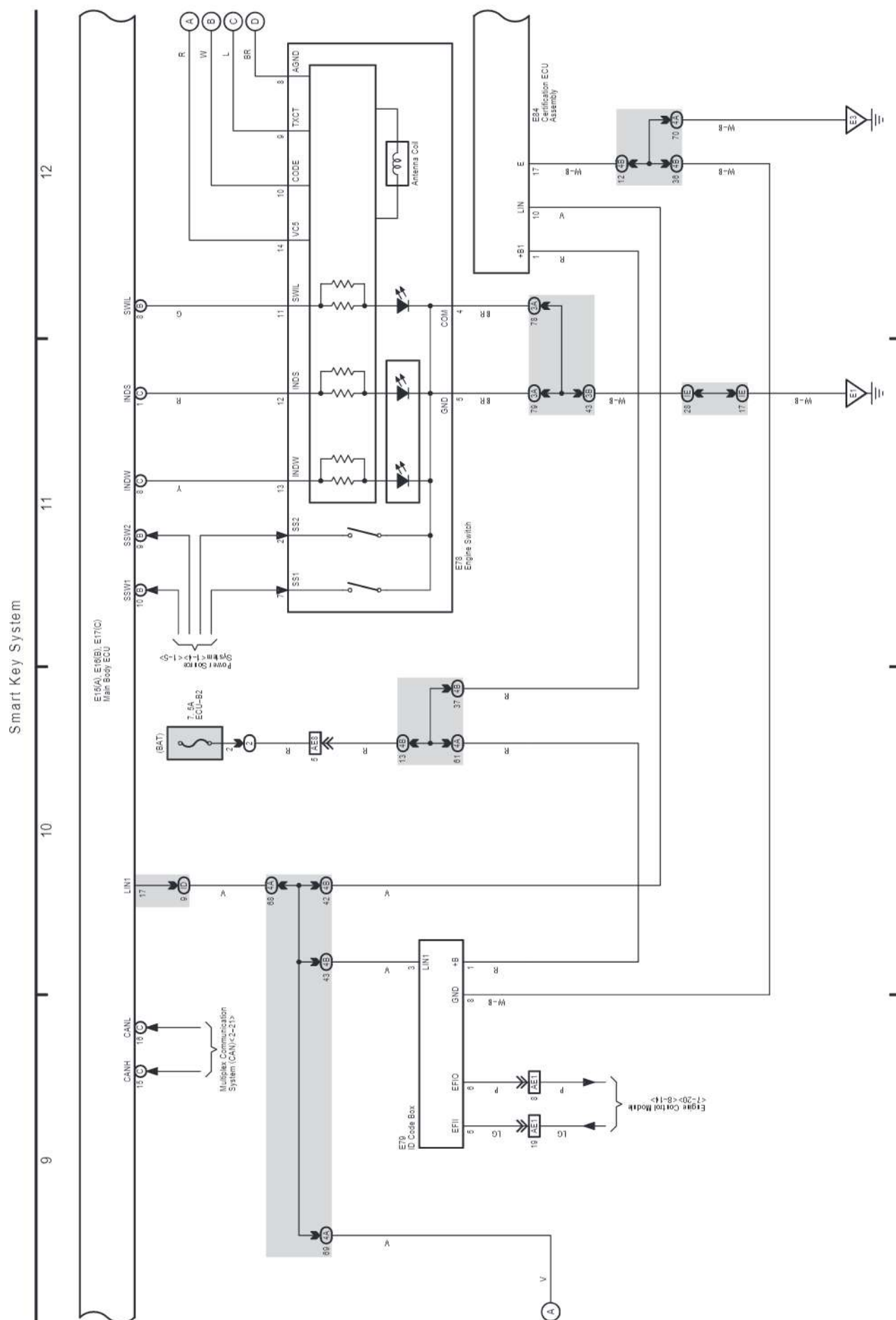
(Cont. next page)



RAV4 (EM16B0U)



M OVERALL ELECTRICAL WIRING DIAGRAM



Smart Key System

* 3 - TMMIC Made
* 4 - TMC Made

13

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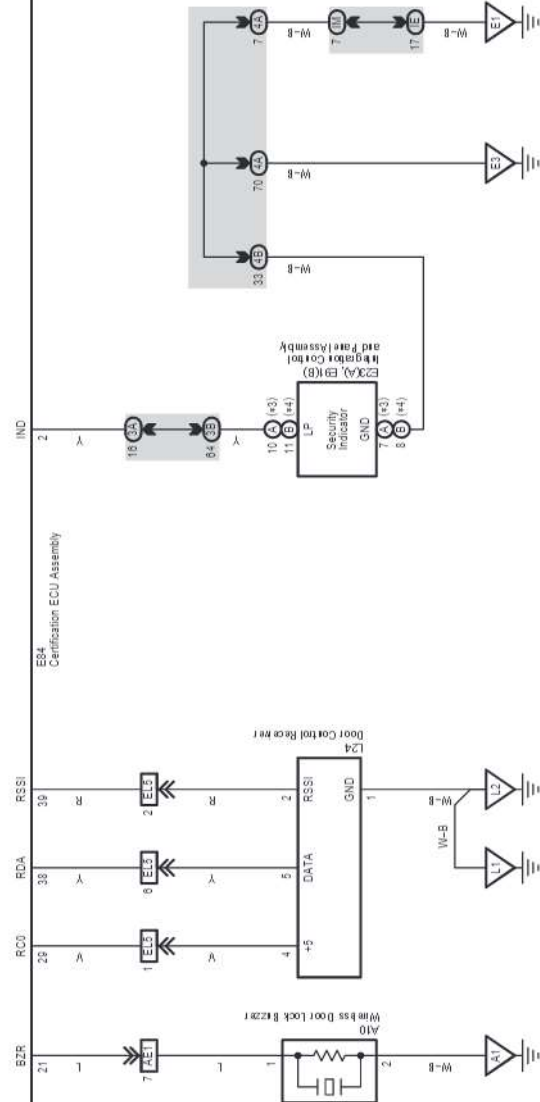
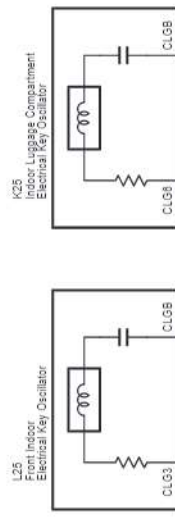
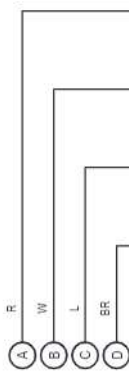
16

E16(A), E16(B), E17(C)
Main Body ECU

Shift Lock Control
ECU-21-1P

ALT B

(BAT)

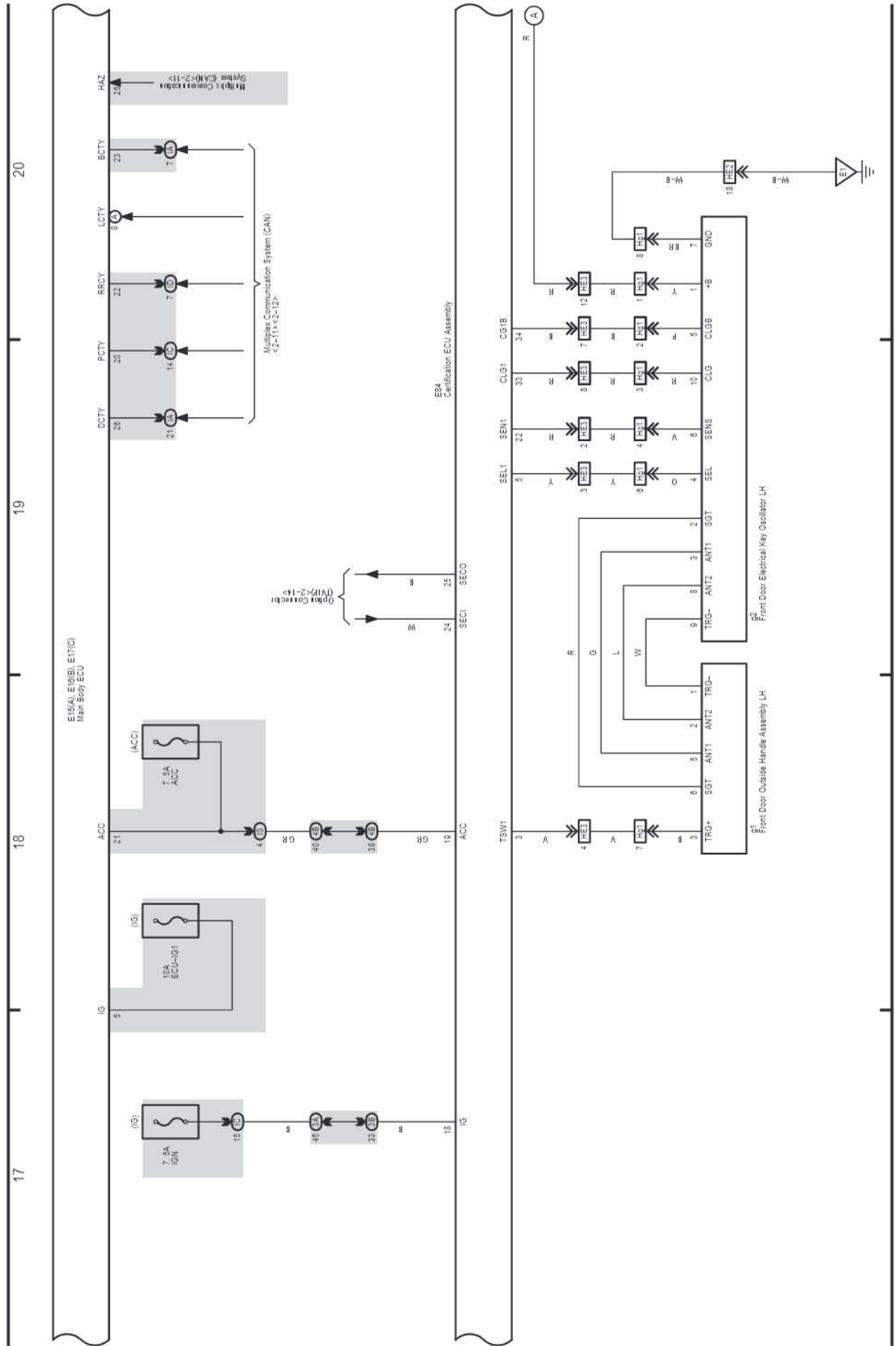


M OVERALL ELECTRICAL WIRING DIAGRAM

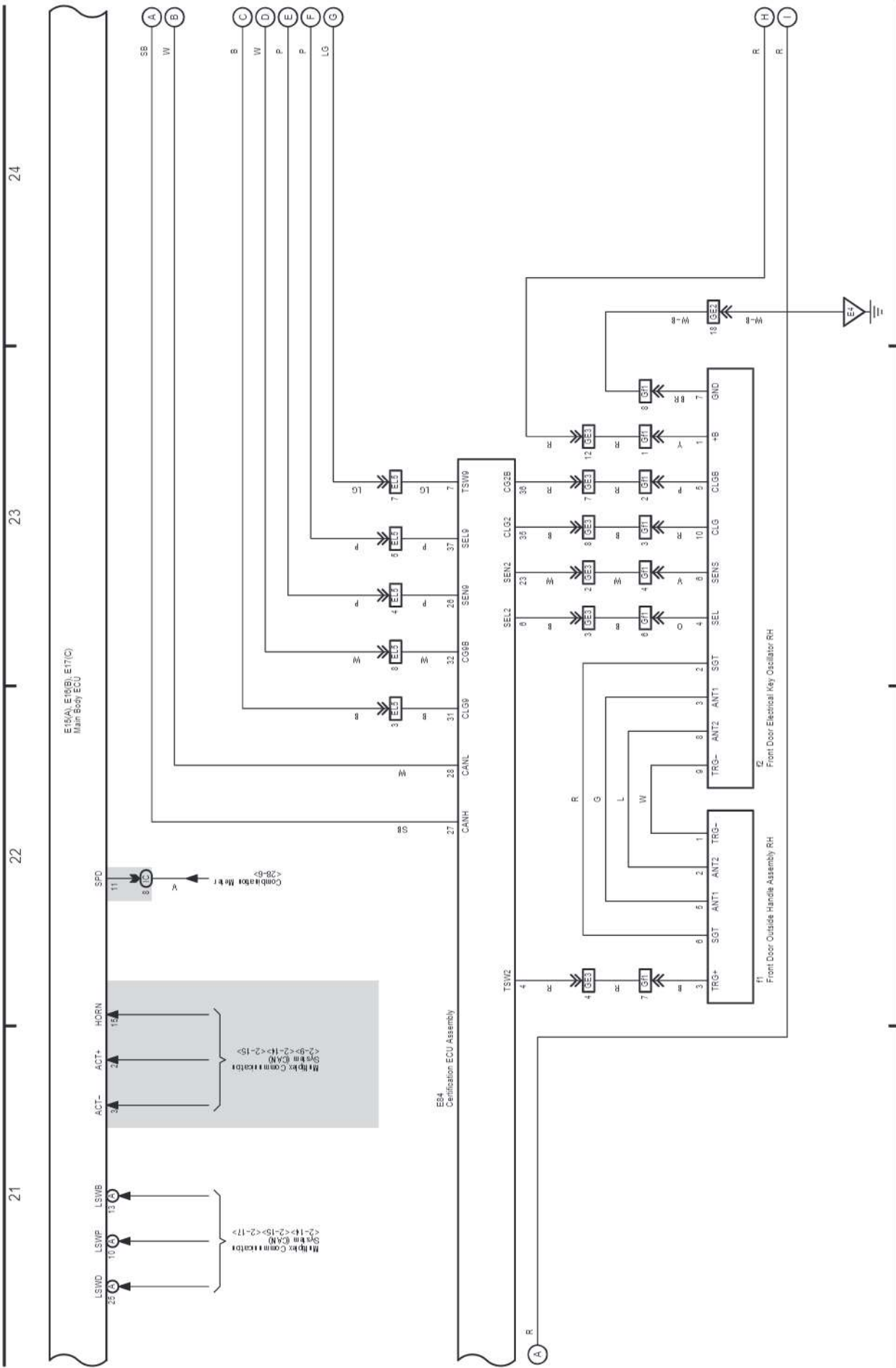
32 RAV4 (Cont' d)

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Smart Key System



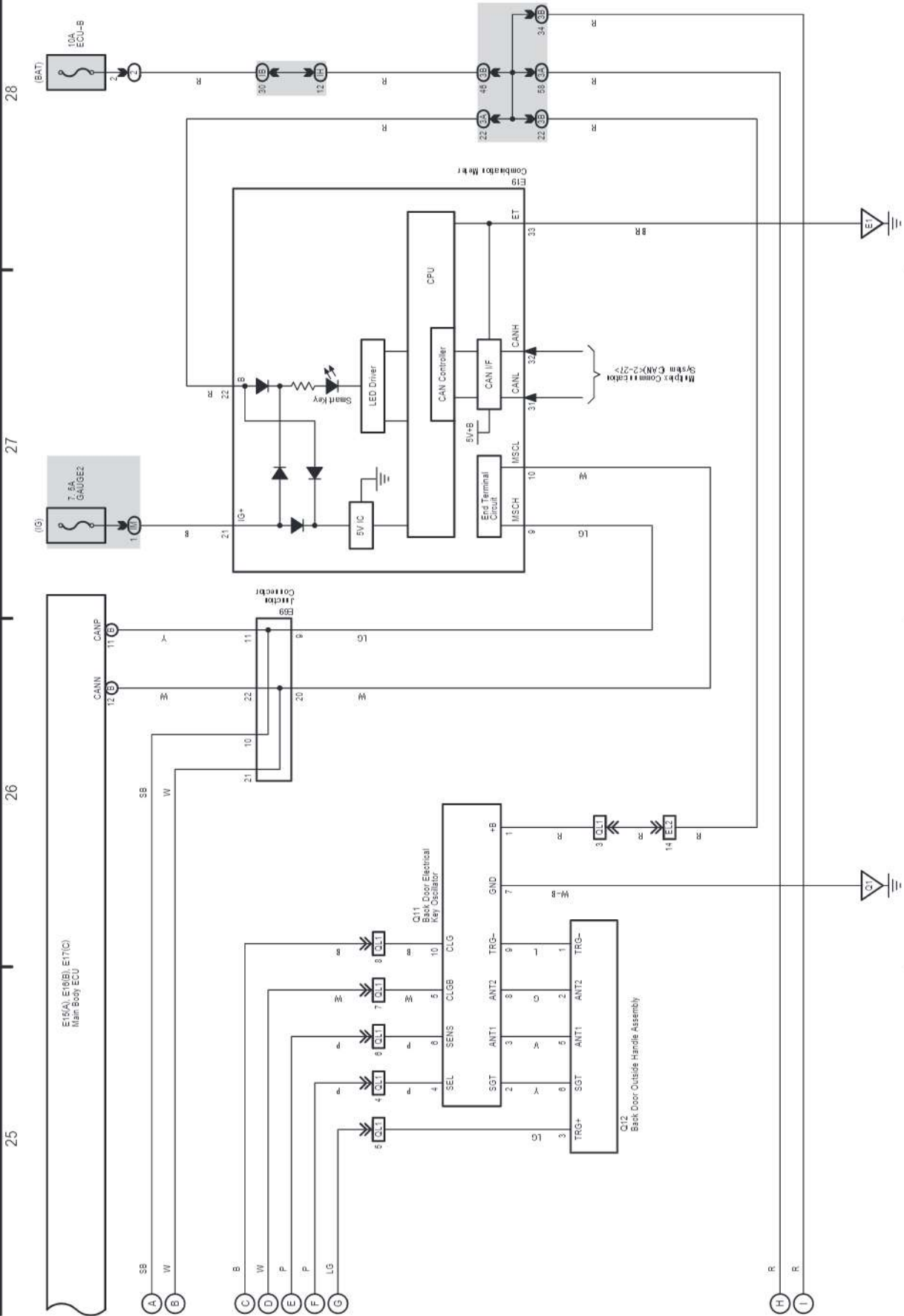
Smart Key System



M OVERALL ELECTRICAL WIRING DIAGRAM

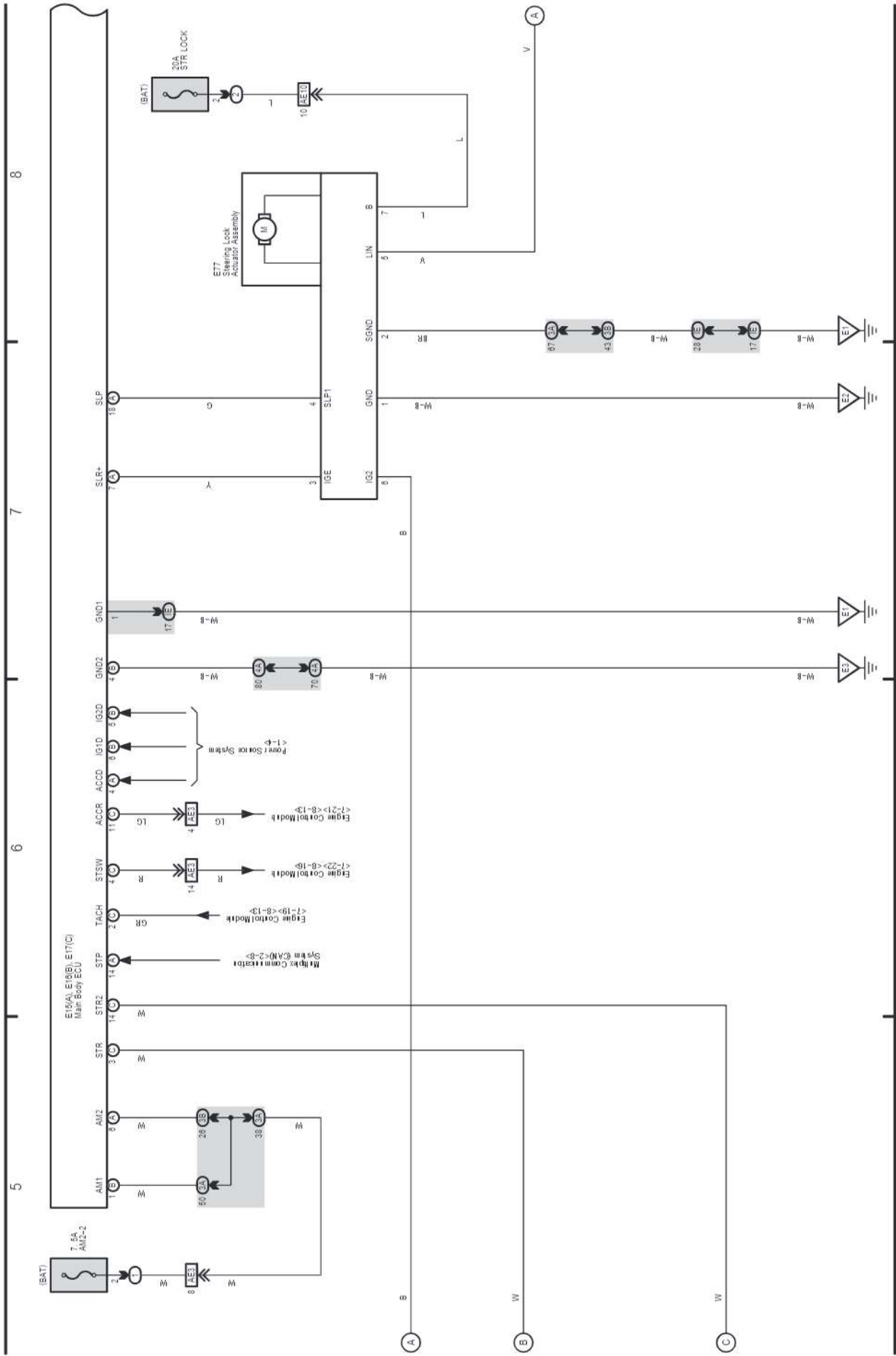
32 RAV4 (Cont'd)

Smart Key System

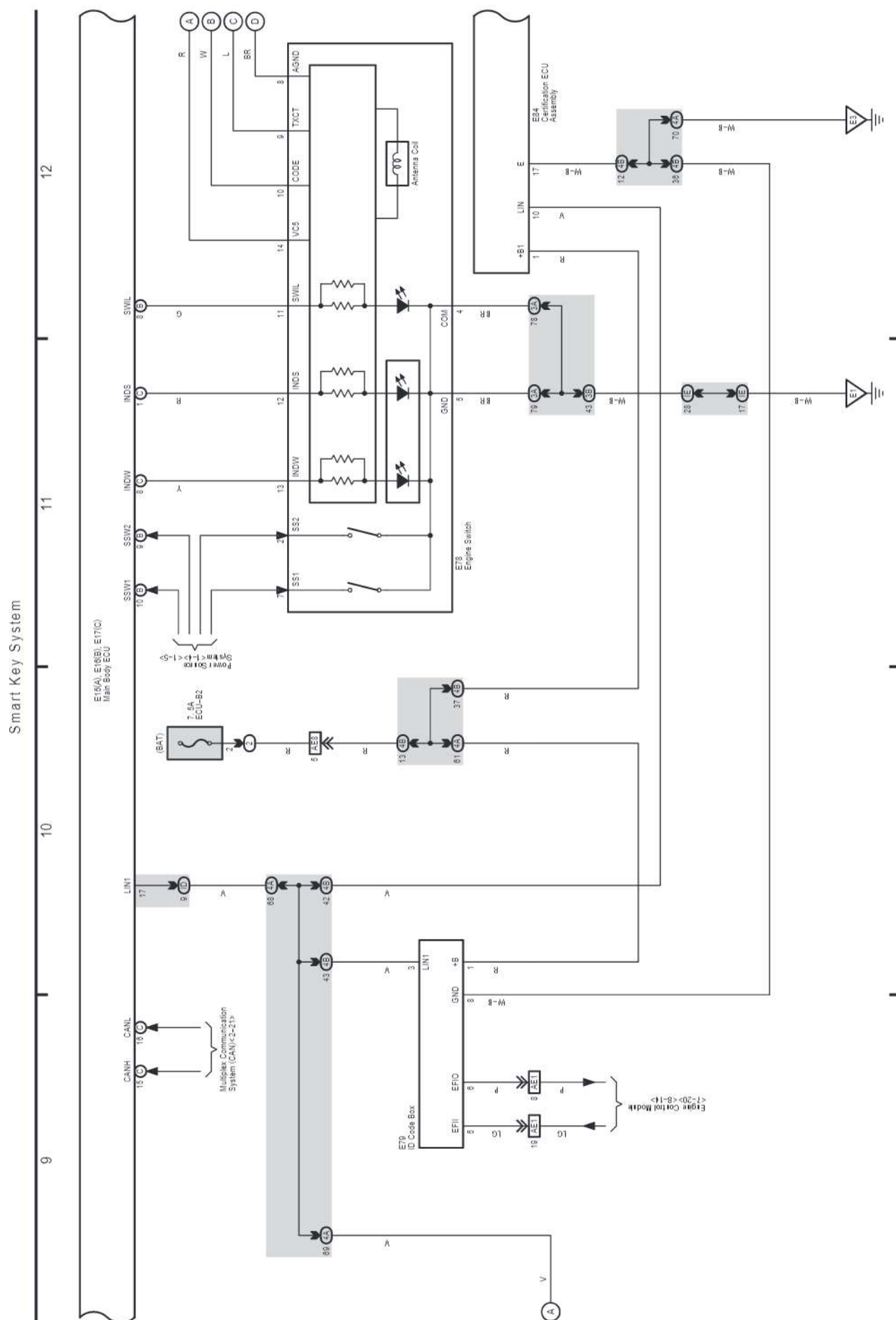




Smart Key System



M OVERALL ELECTRICAL WIRING DIAGRAM



Smart Key System

* 3 - TMMIC Made
* 4 - TMC Made

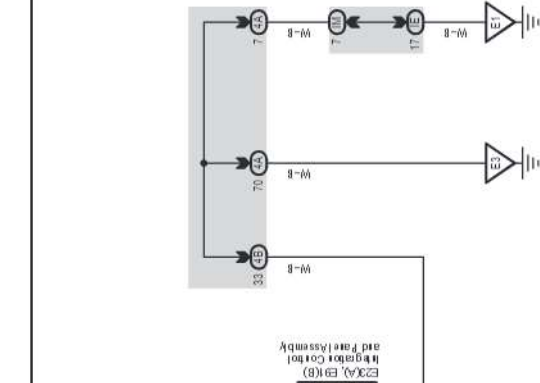
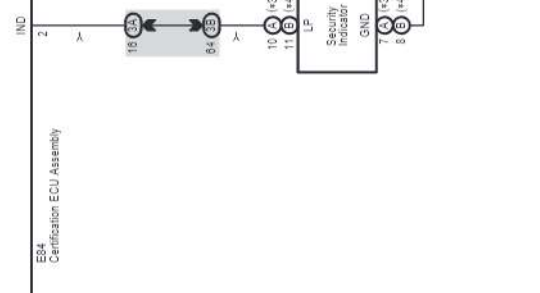
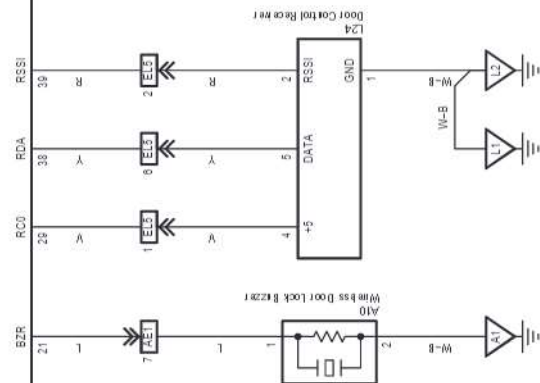
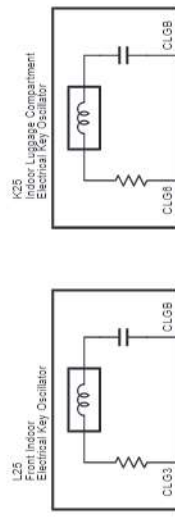
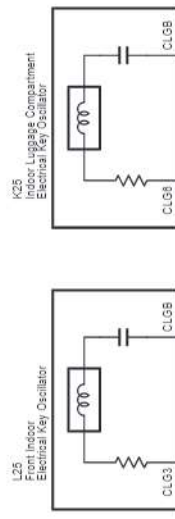
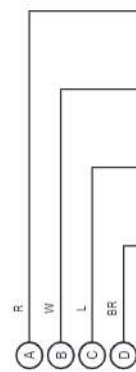
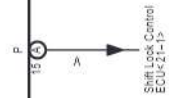
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E16(A), E16(B), E17(C)
Main Body ECU

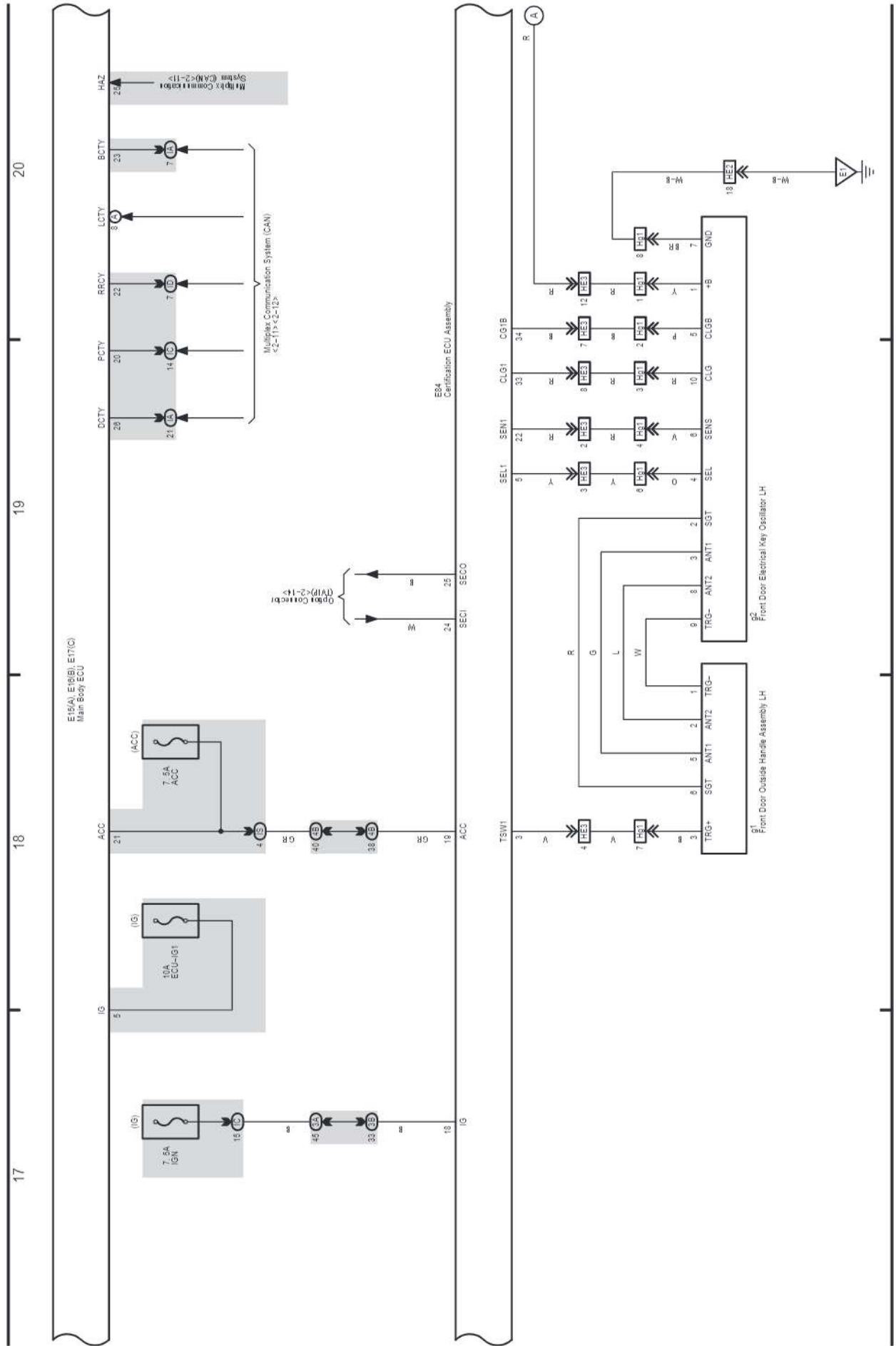


M OVERALL ELECTRICAL WIRING DIAGRAM

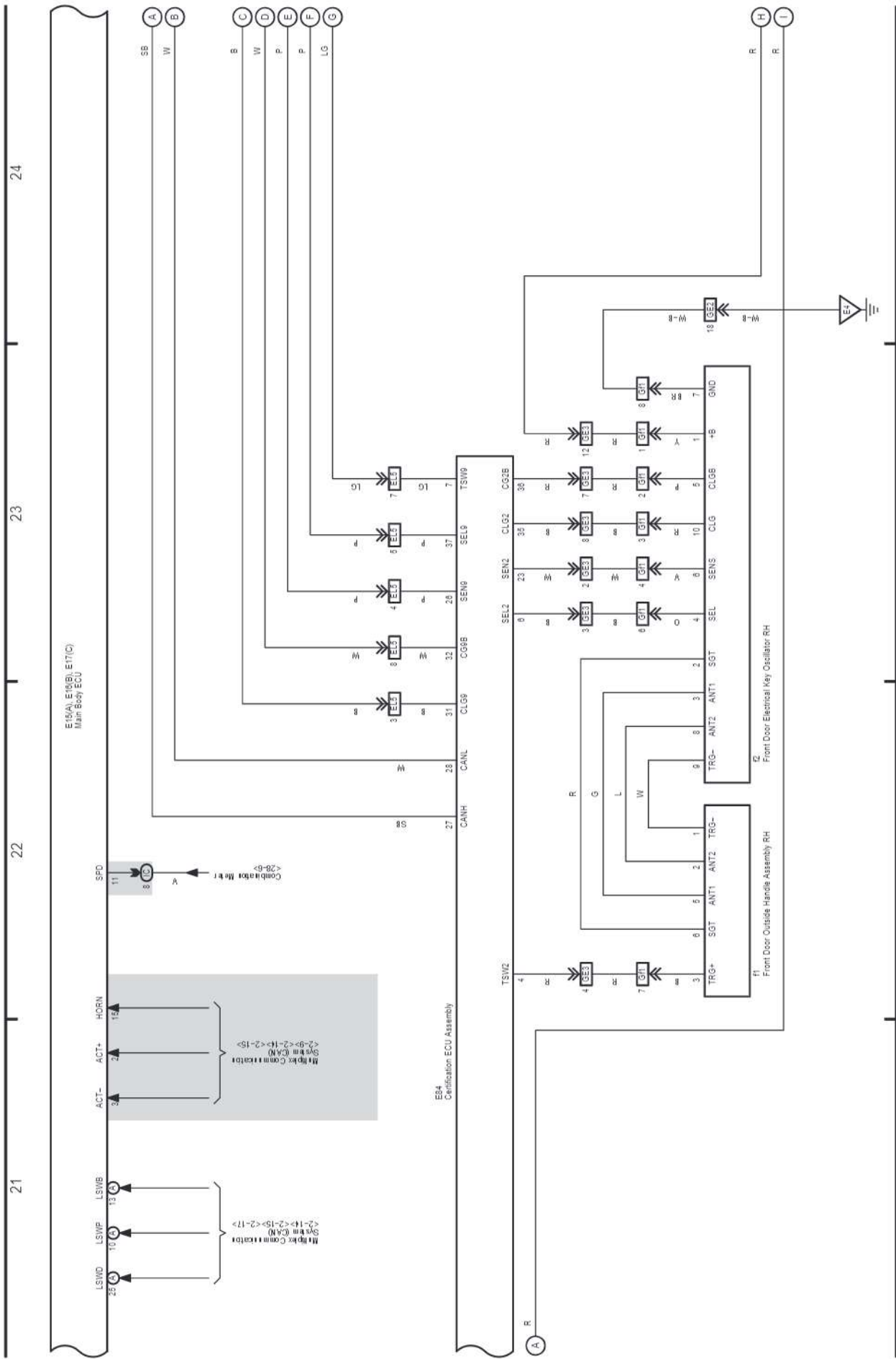
32 RAV4 (Cont' d)

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Smart Key System



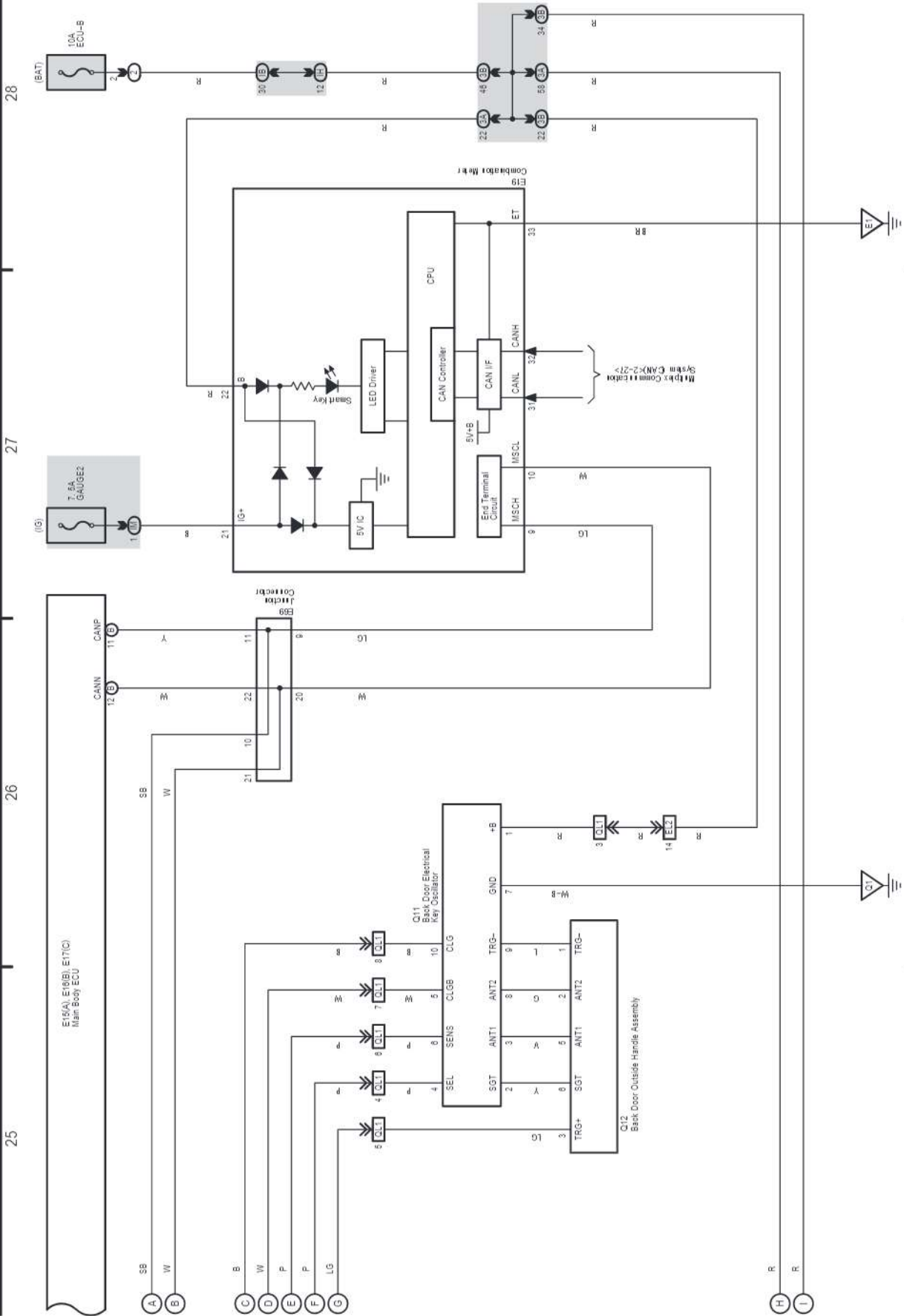
Smart Key System



M OVERALL ELECTRICAL WIRING DIAGRAM

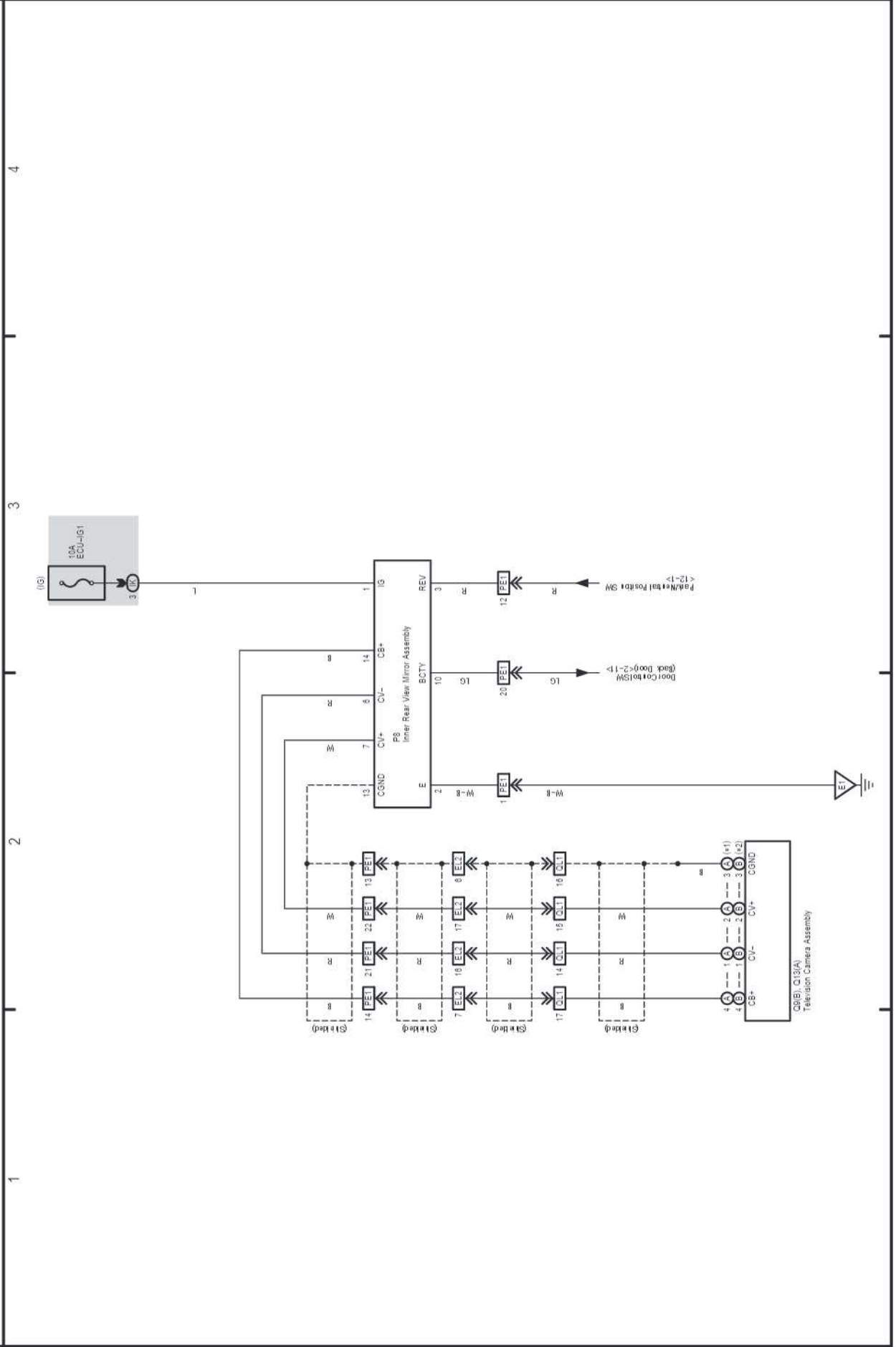
32 RAV4 (Cont'd)

Smart Key System



Automatic Glare-Resistant EC Mirror and Parking Assist (Rear View Monitor)

#1: w/ Spare Tire
#2: w/o Spare Tire



Automatic Glare-Resistant EC Mirror and Parking Assist (Rear View Monitor)

#1: w/ Spare Tire
#2: w/o Spare Tire

