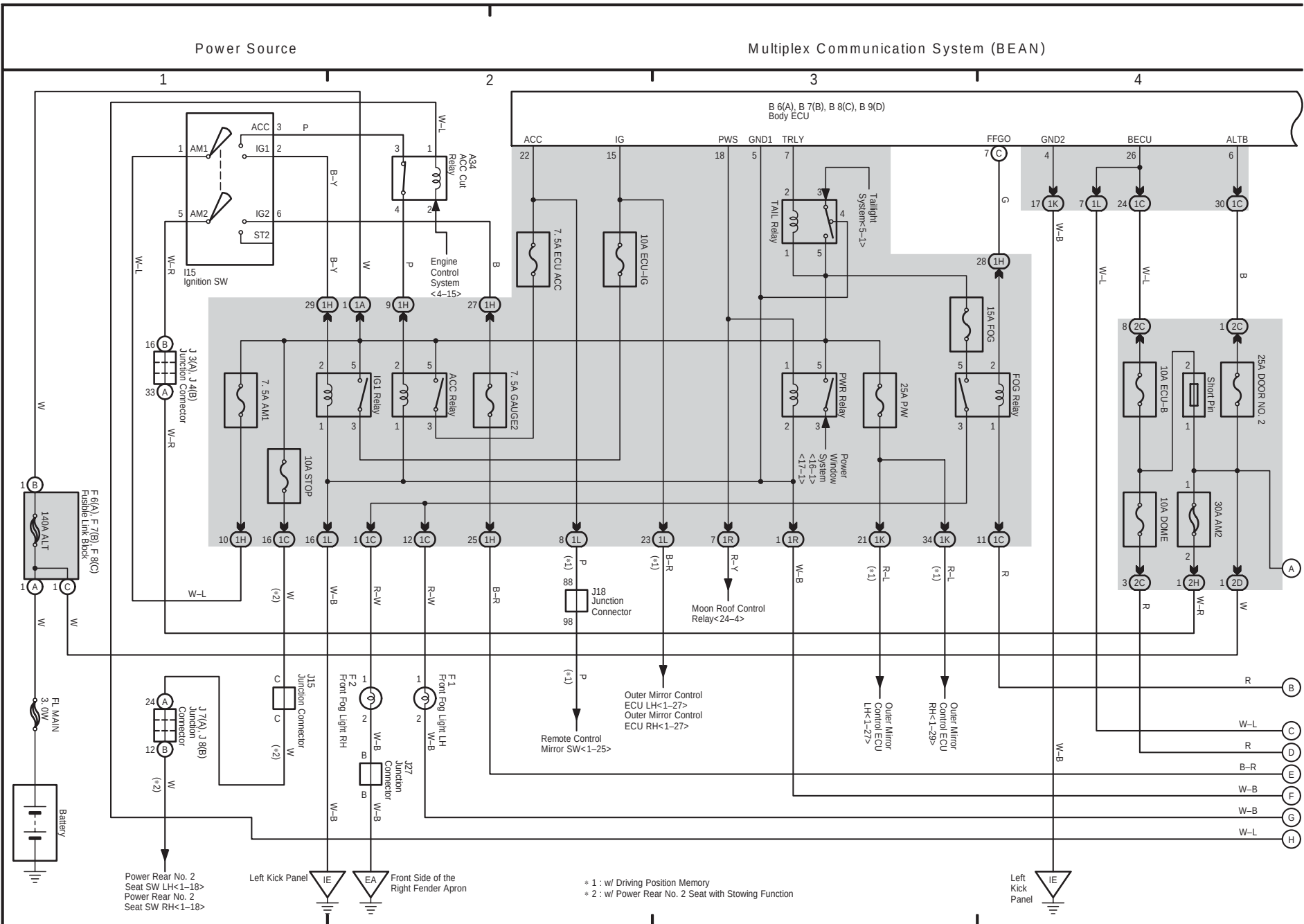


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1 SIENNA

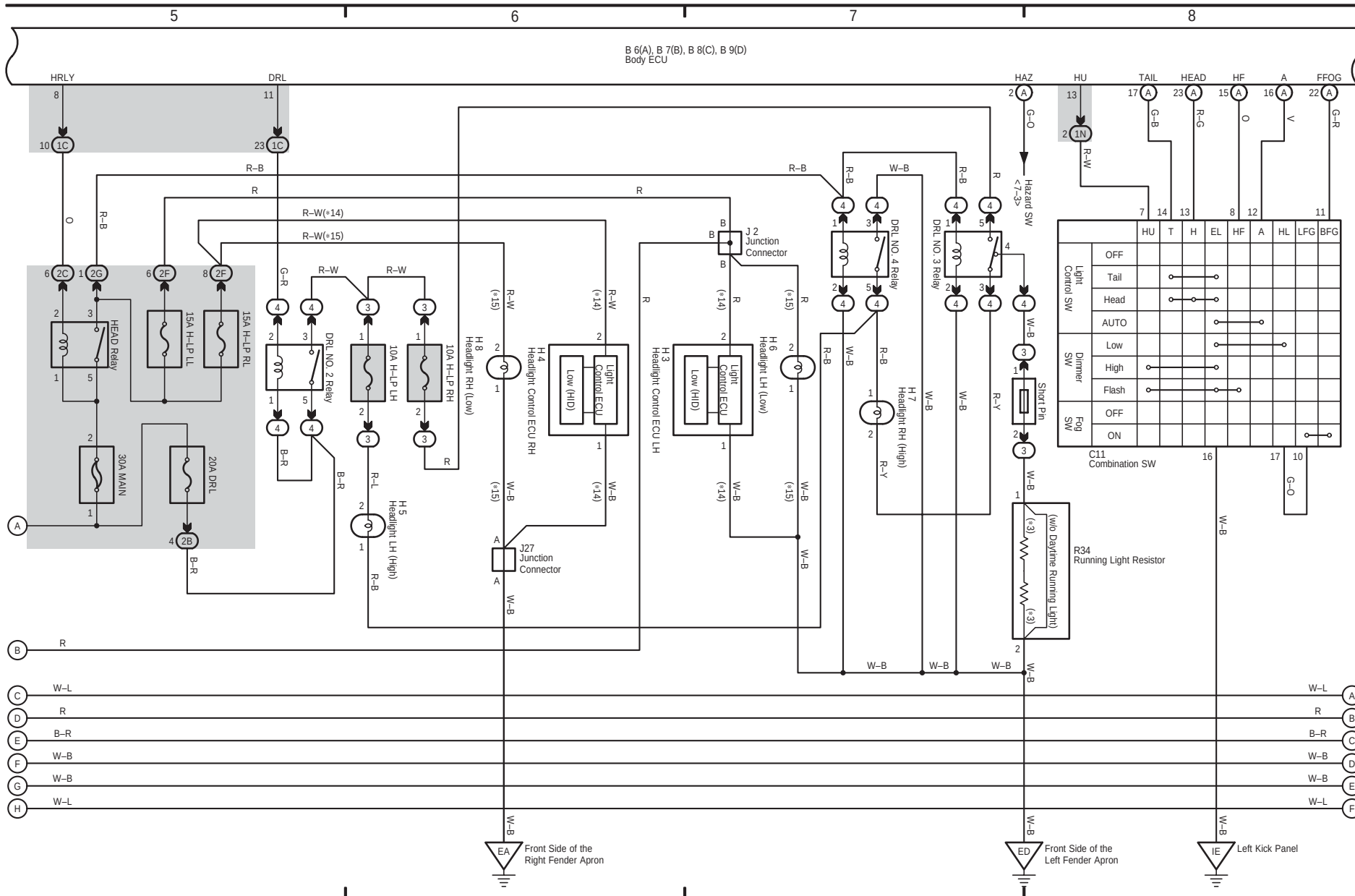
448

SIENNA (EM0530U)



Multiplex Communication System (BEAN)

* 3 : w/ Daytime Running Light
 *14 : HID Type
 *15 : Except HID Type



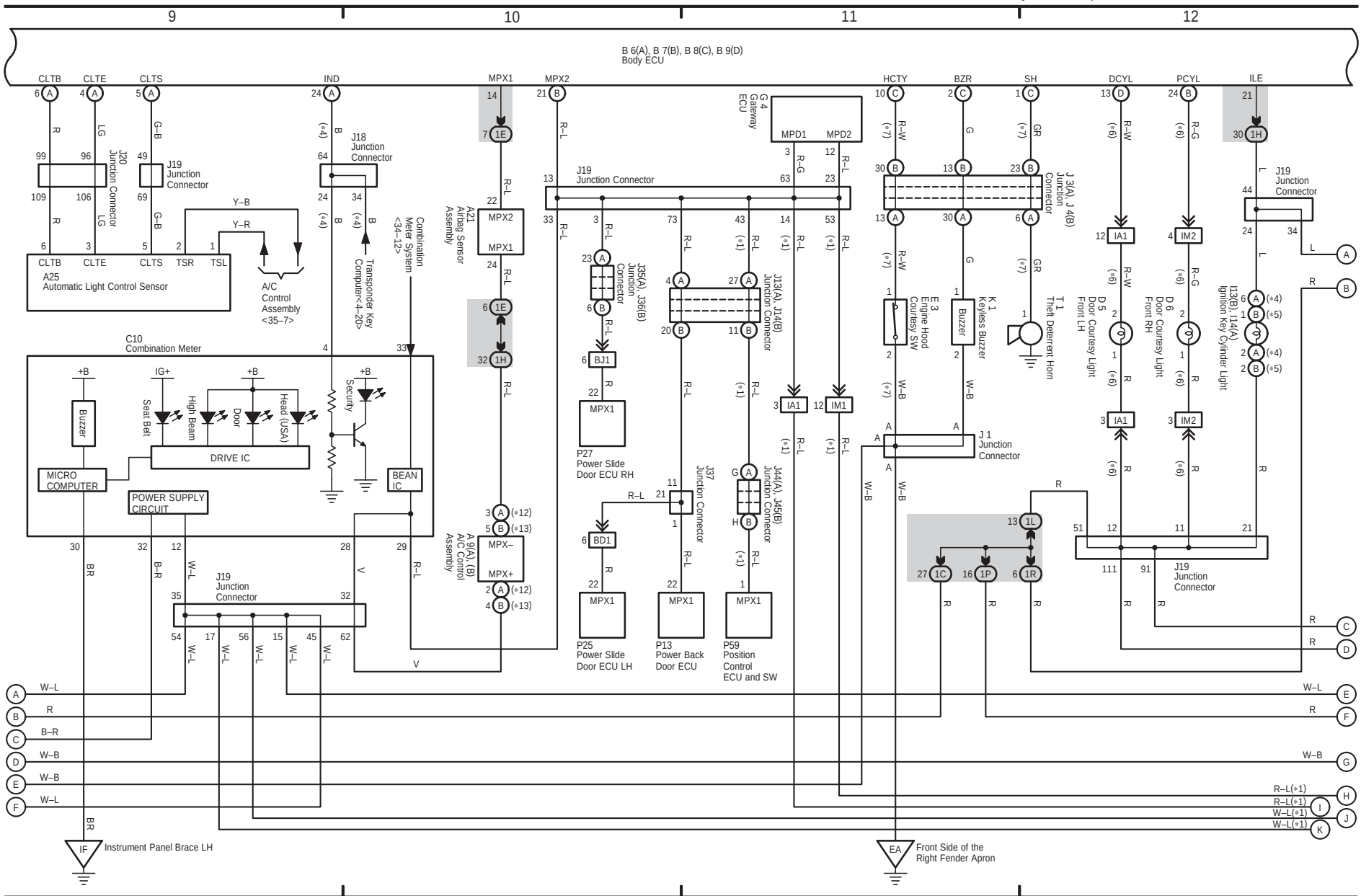
SIENNA (EM0530U)

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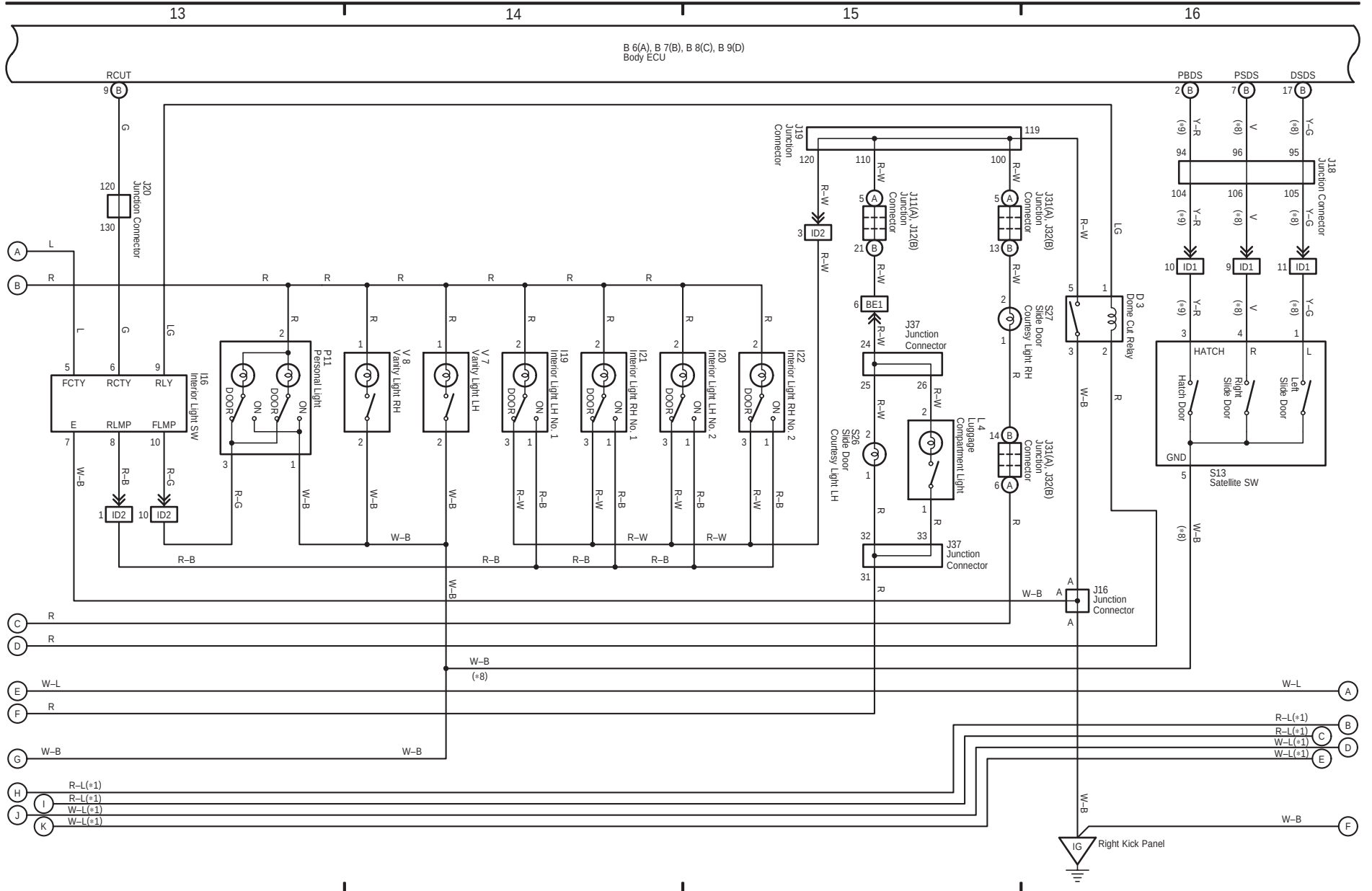
1 SIENNA (Cont' d)

Multiplex Communication System (BEAN)



Multiplex Communication System (BEAN)

- * 1 : w/ Driving Position Memory
- * 8 : w/ Power Side Door
- * 9 : w/ Power Back Door

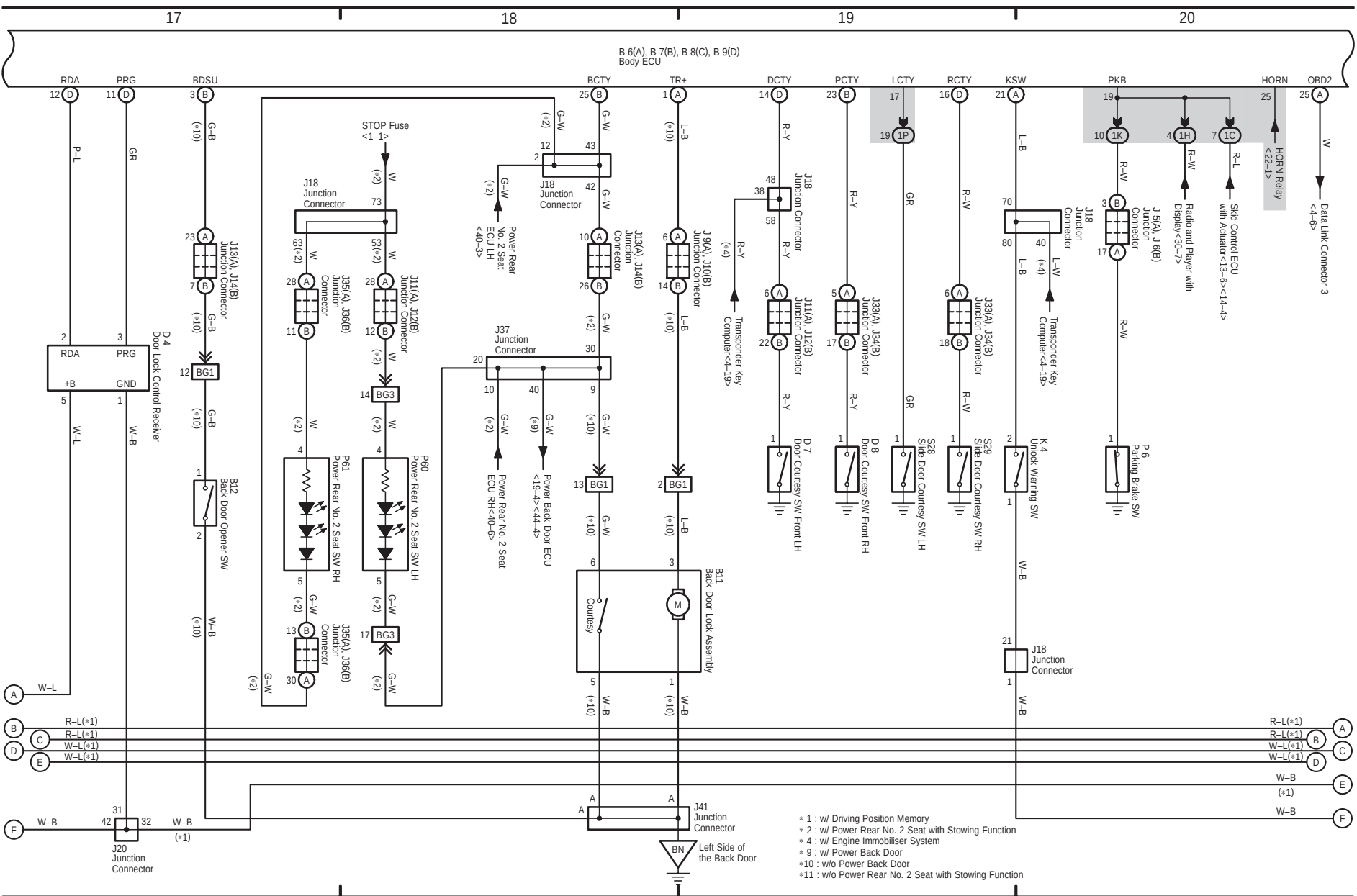


SIENNA (EM0530U)

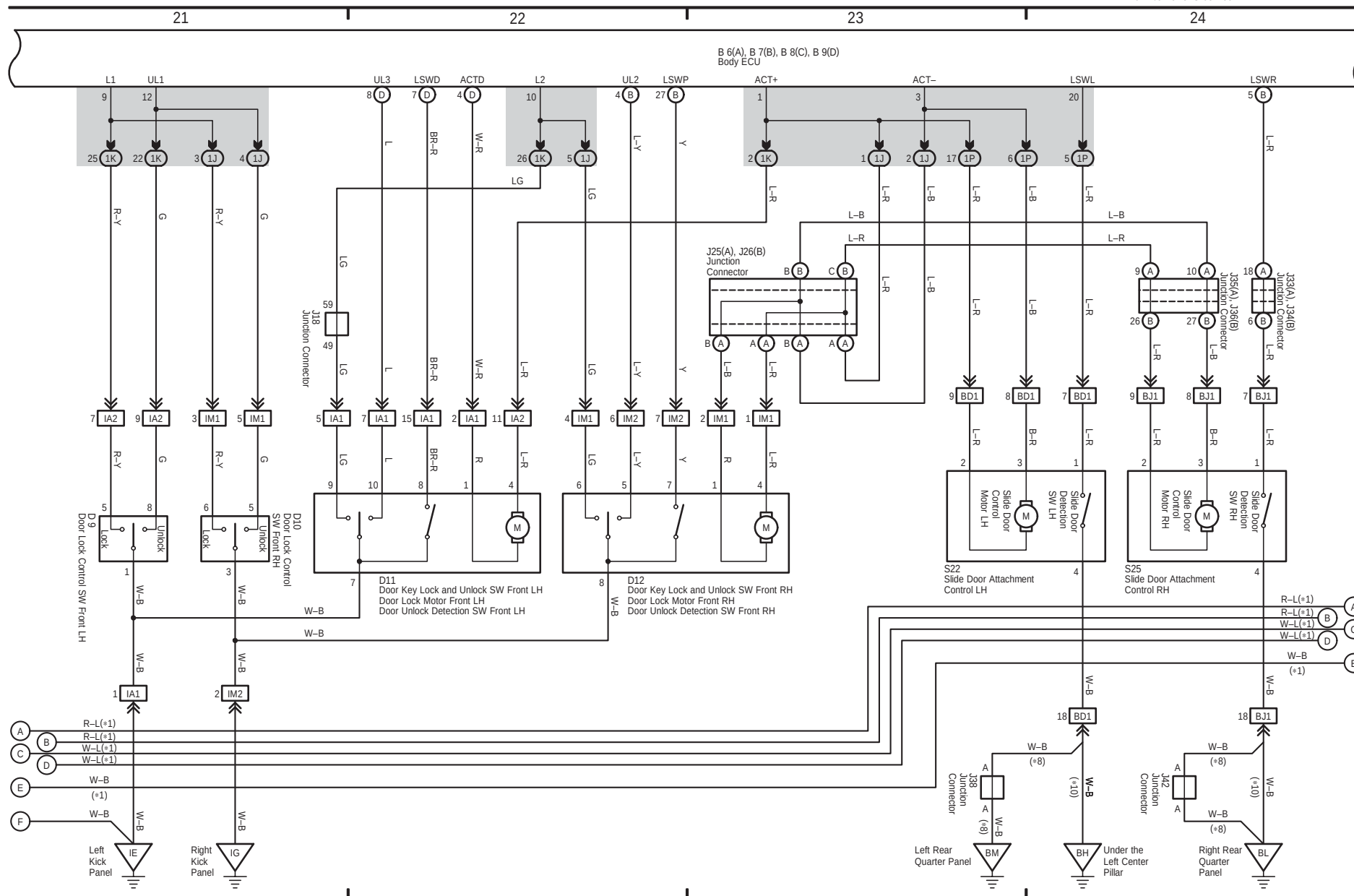
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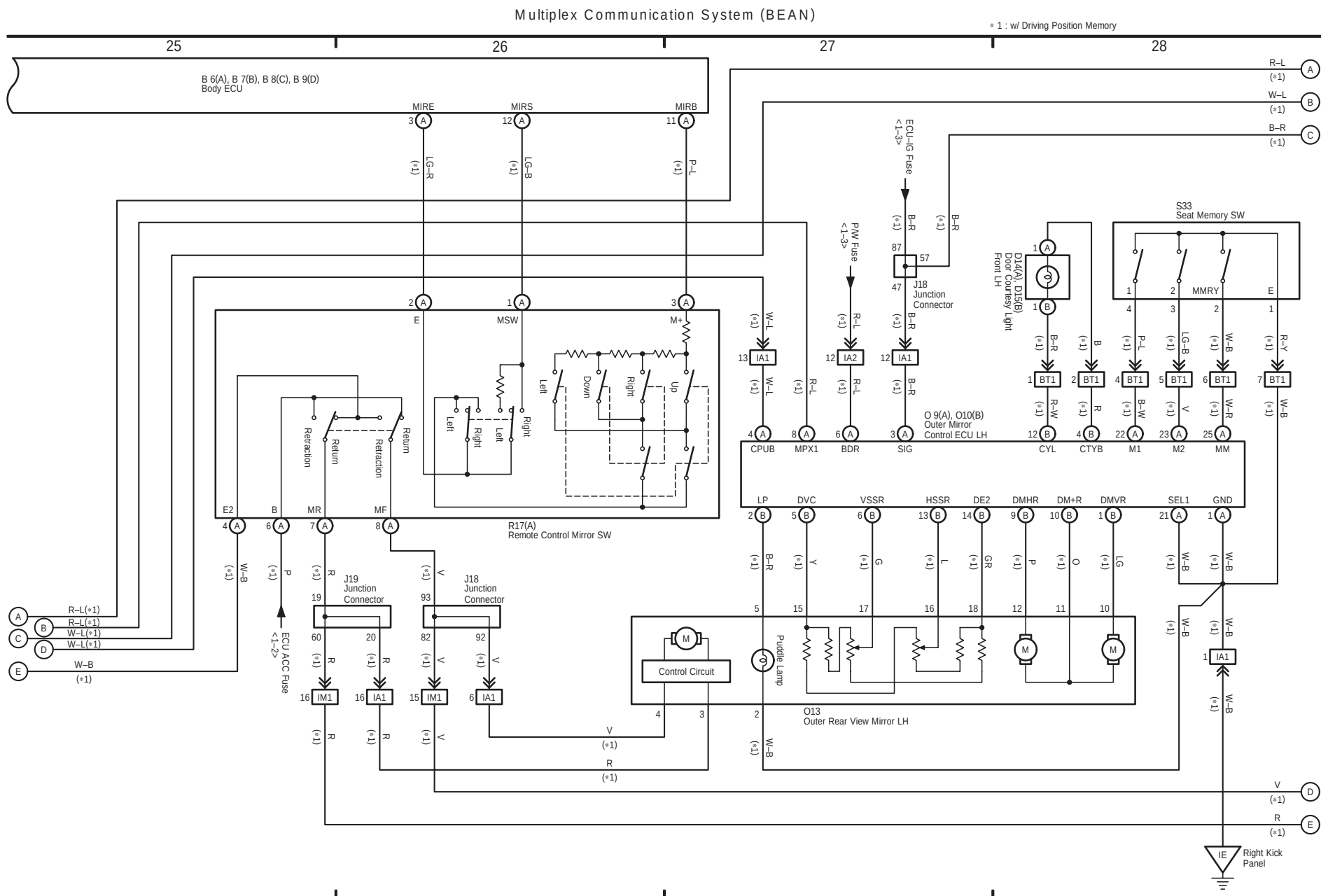
1 SIENNA (Cont' d)

Multiplex Communication System (BEAN)

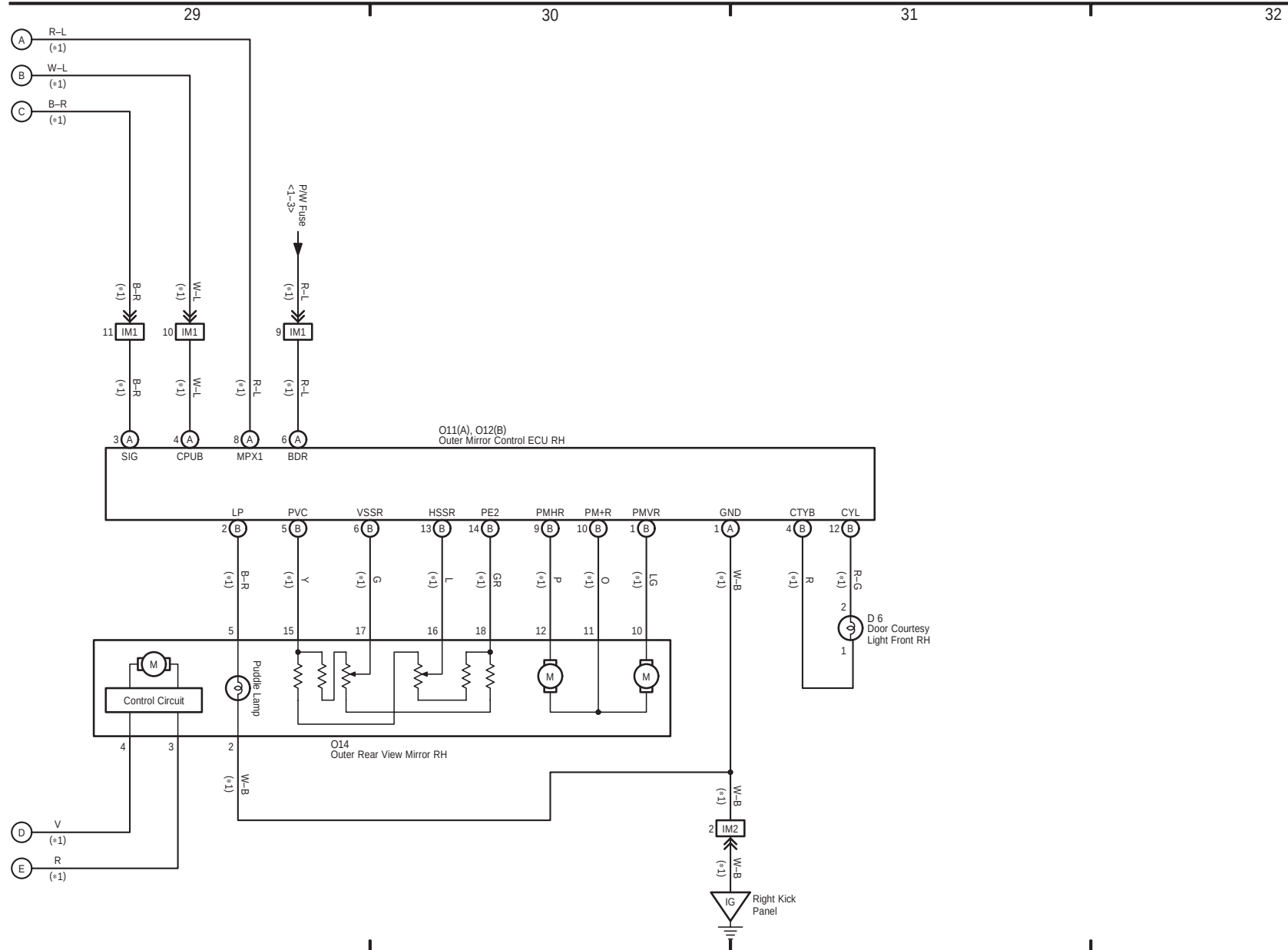


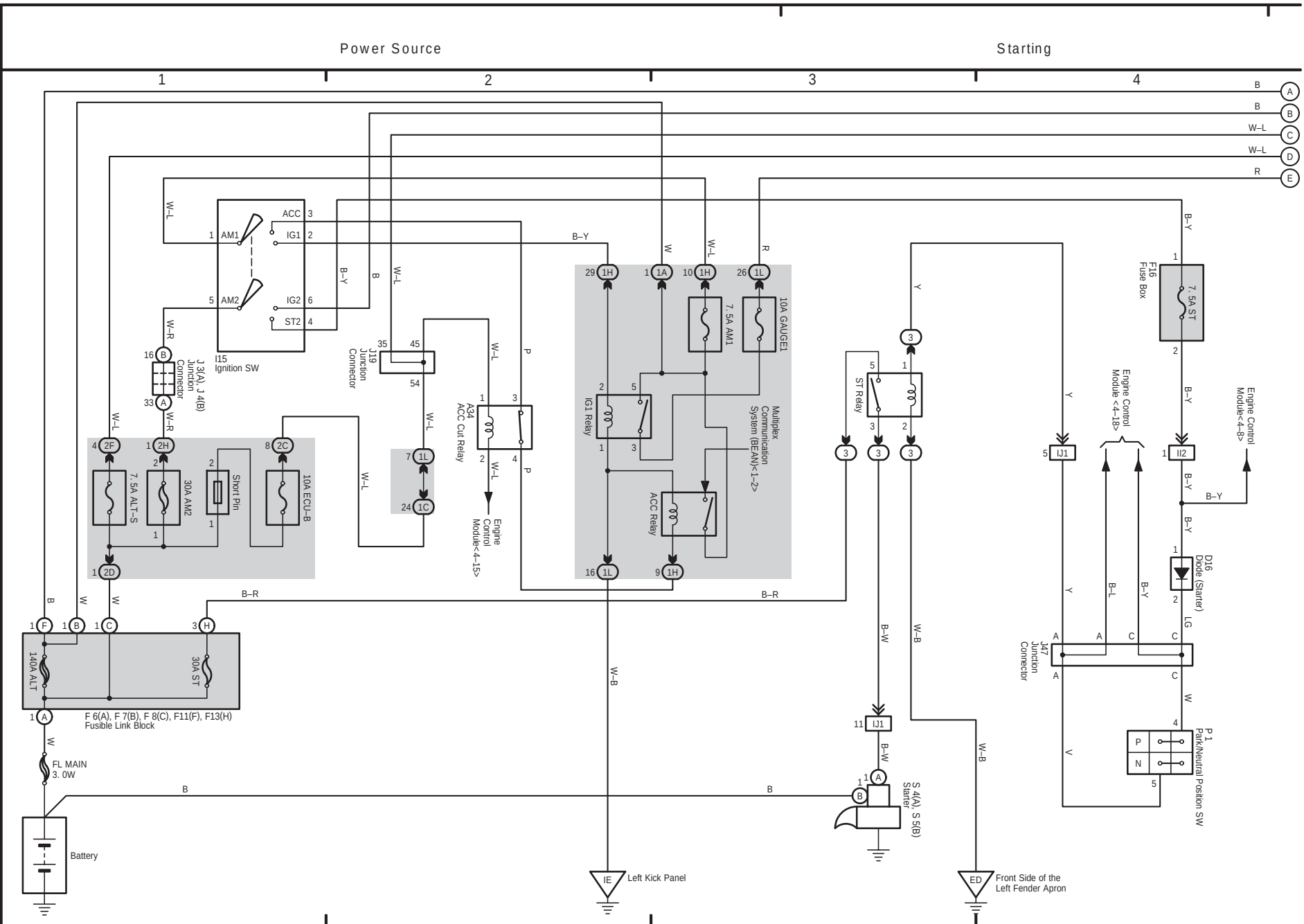
- * 1 : w/ Driving Position Memory
- * 8 : w/ Power Slide Door
- *10 : w/o Power Slide Door

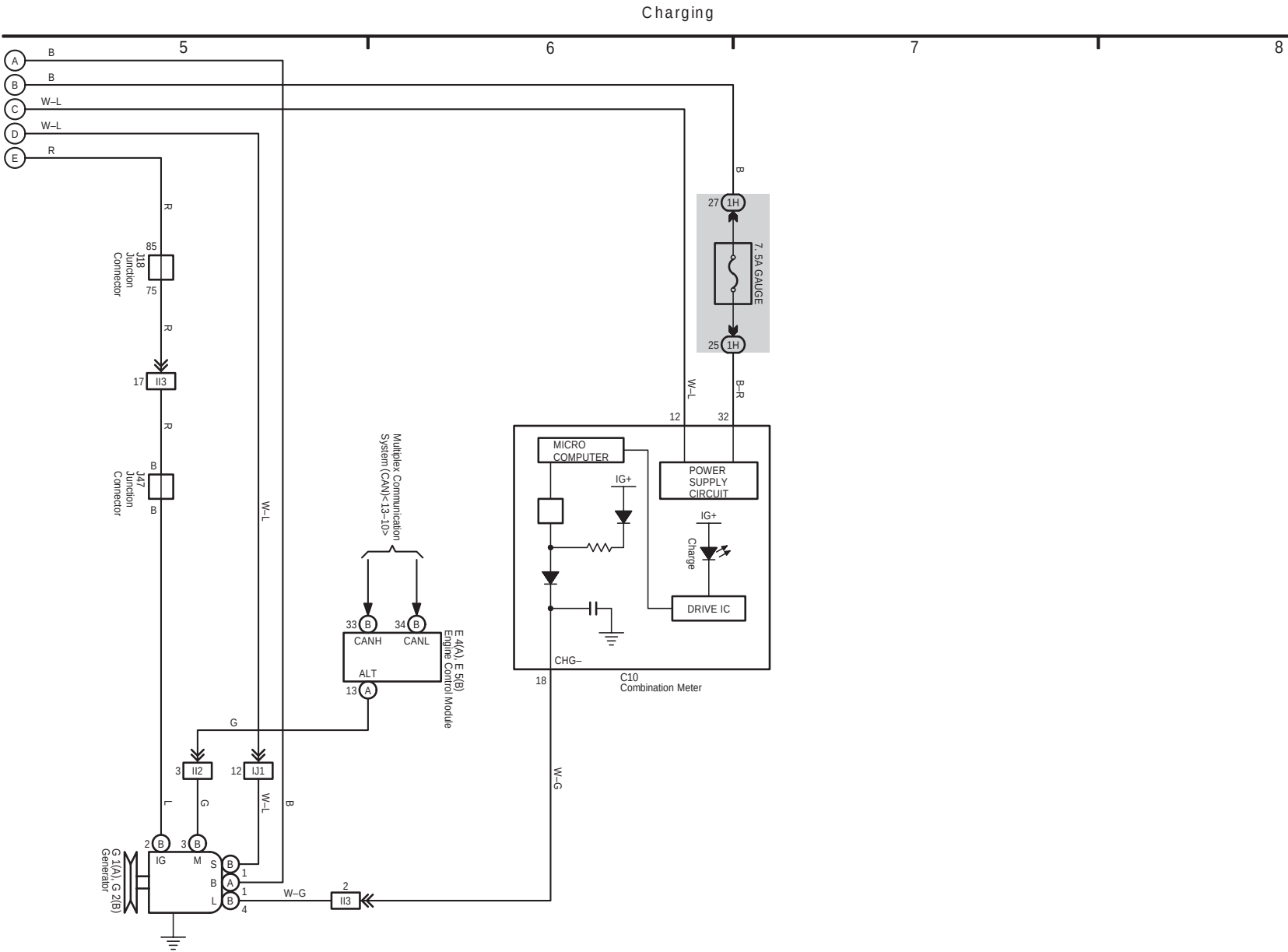




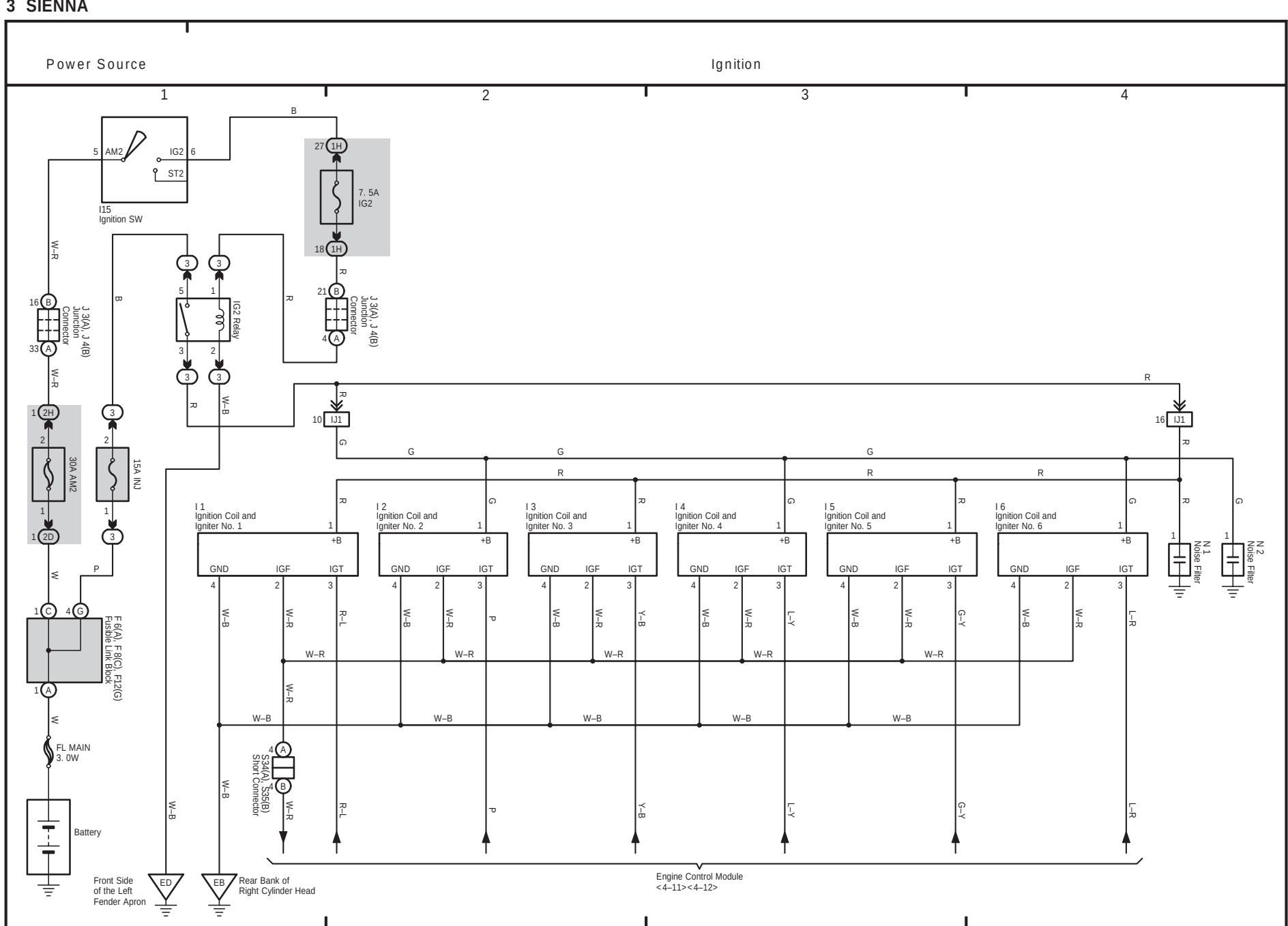
* 1 : w/ Driving Position Memory

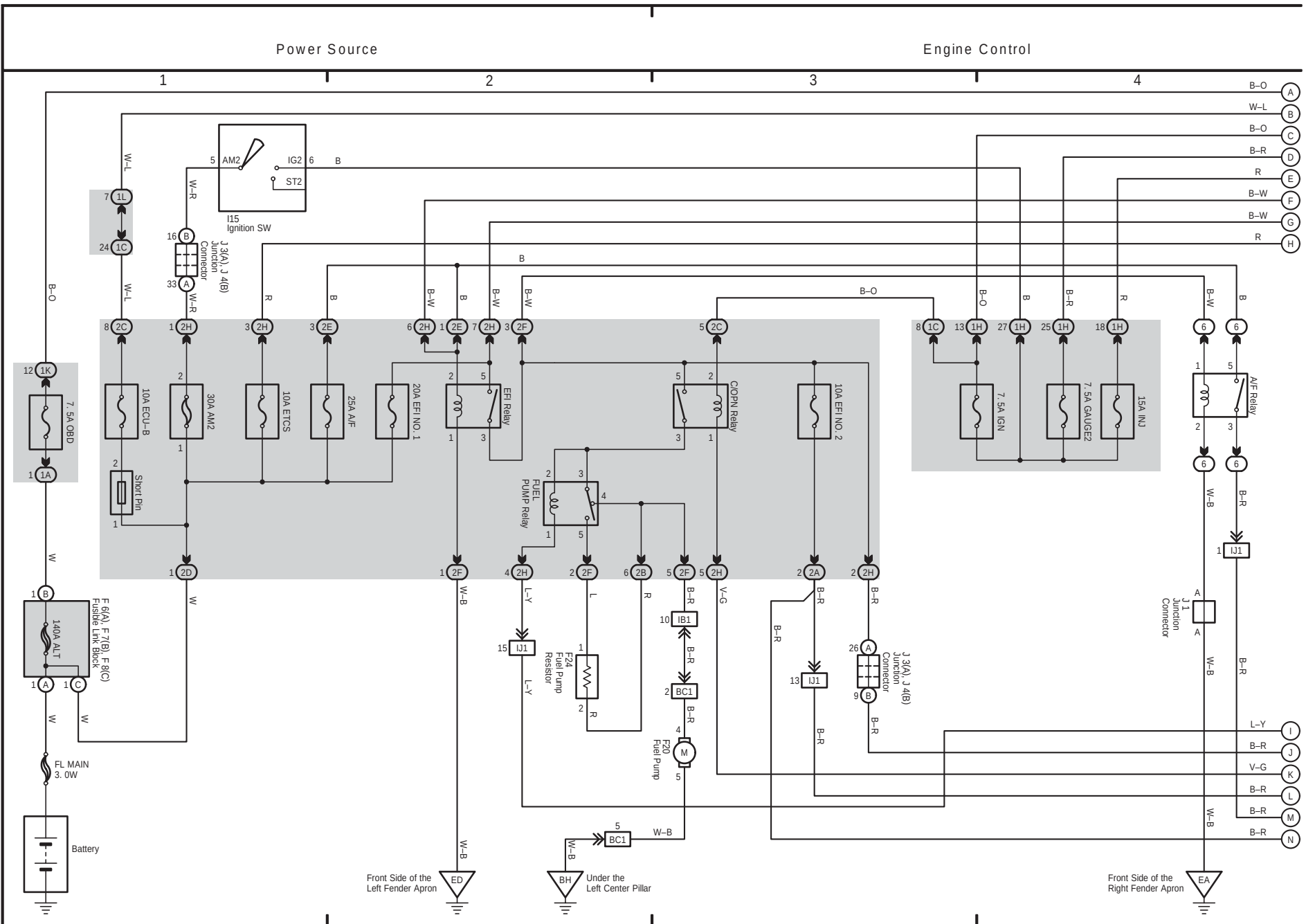


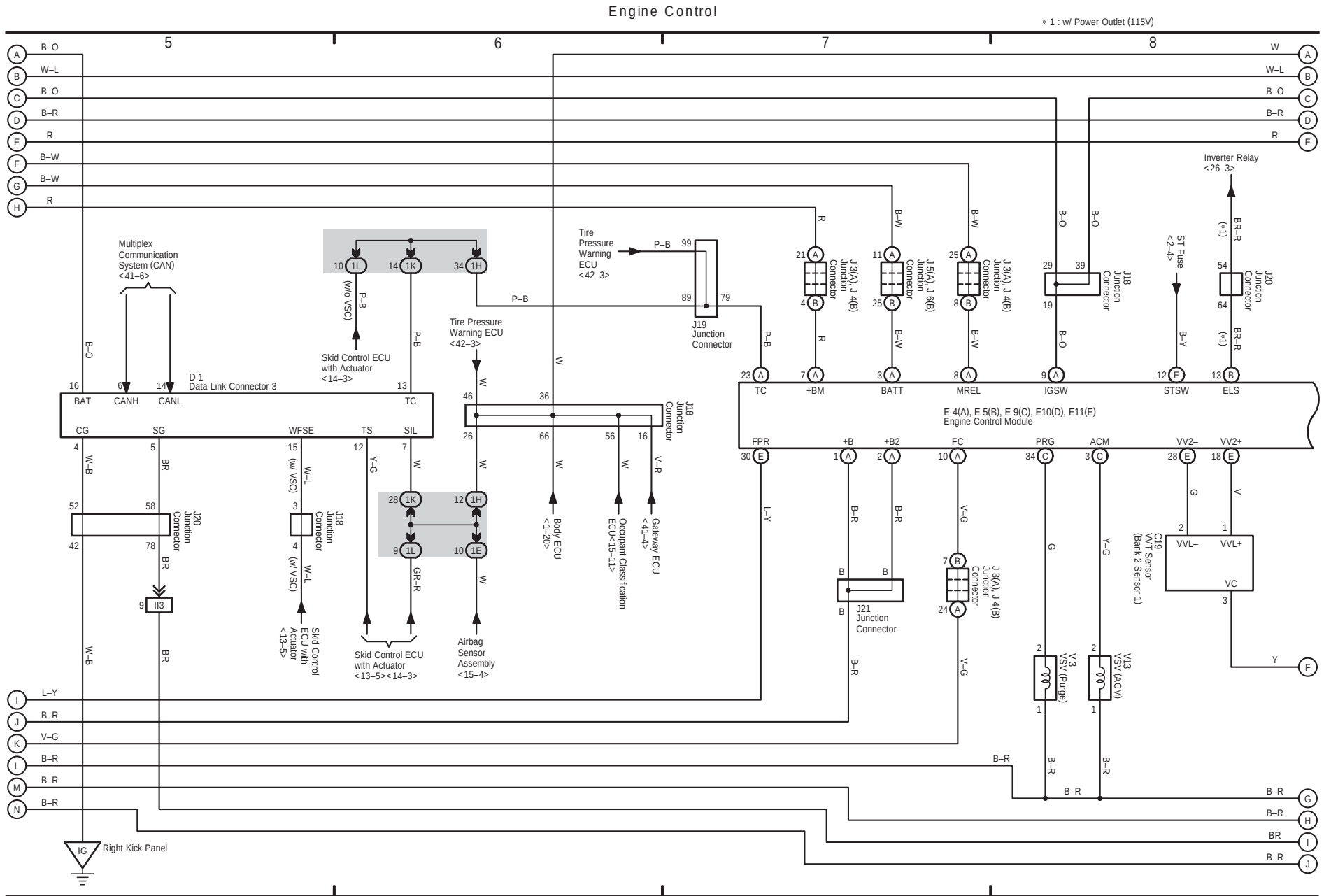




M OVERALL ELECTRICAL WIRING DIAGRAM



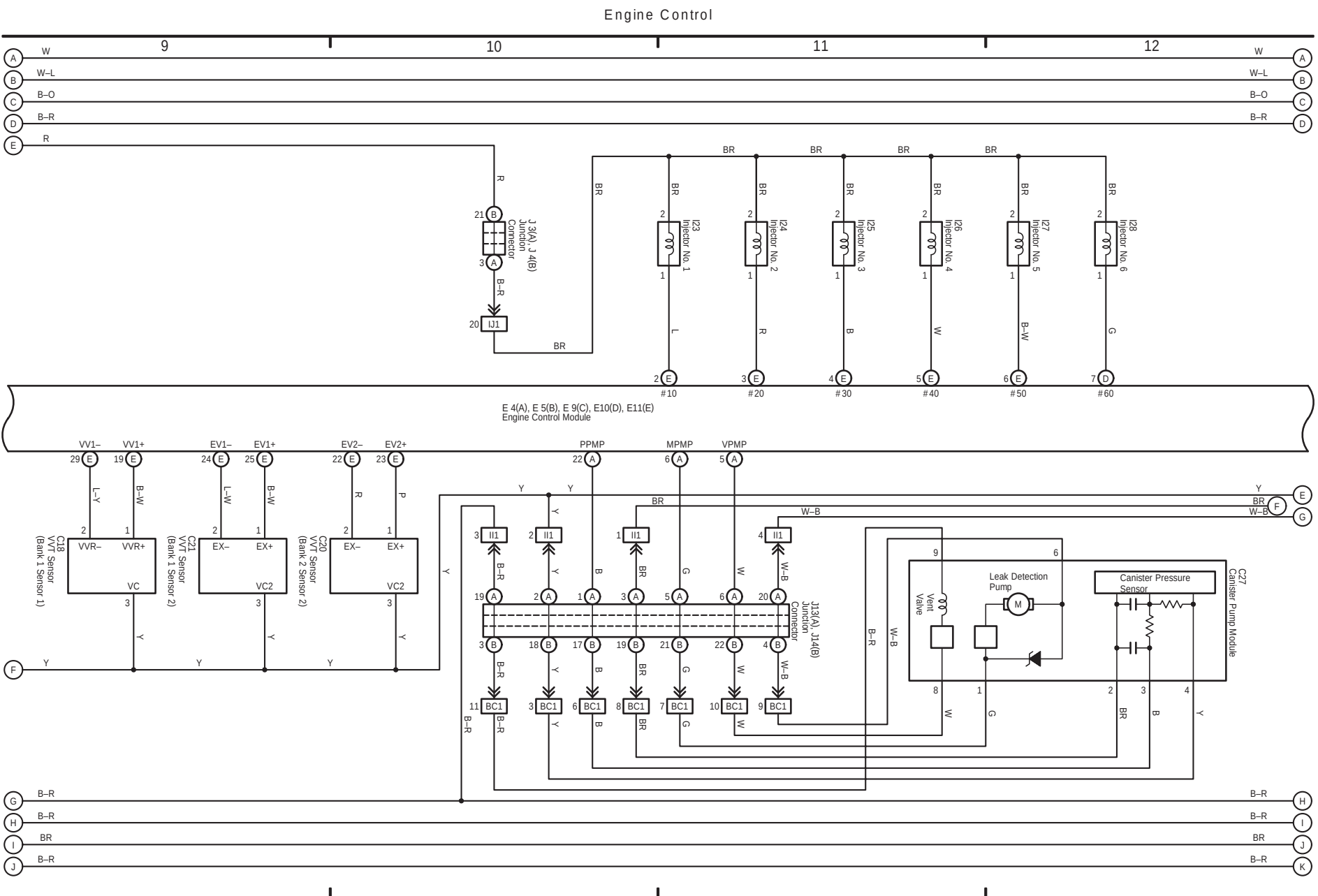


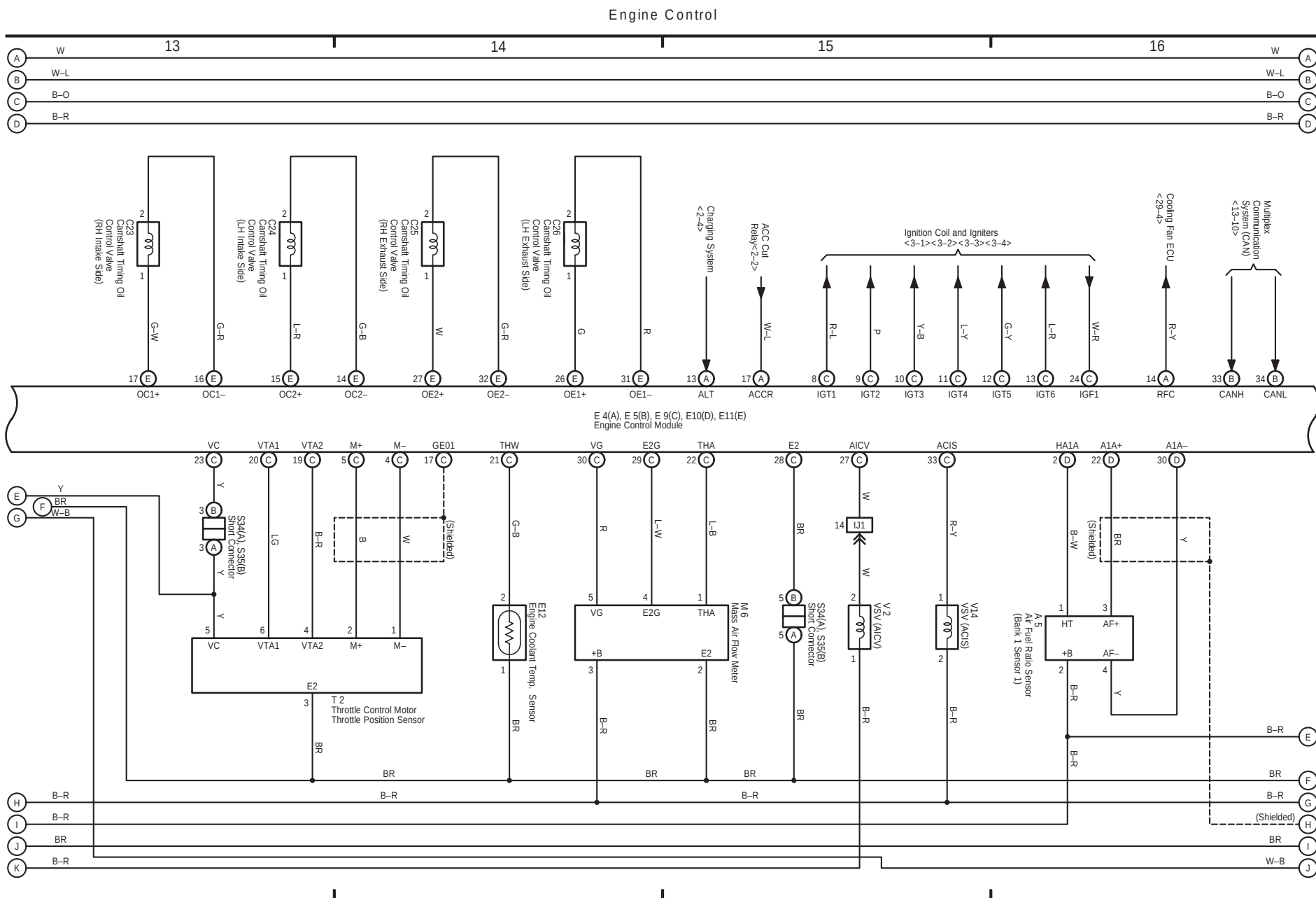


OVERALL ELECTRICAL WIRING DIAGRAM

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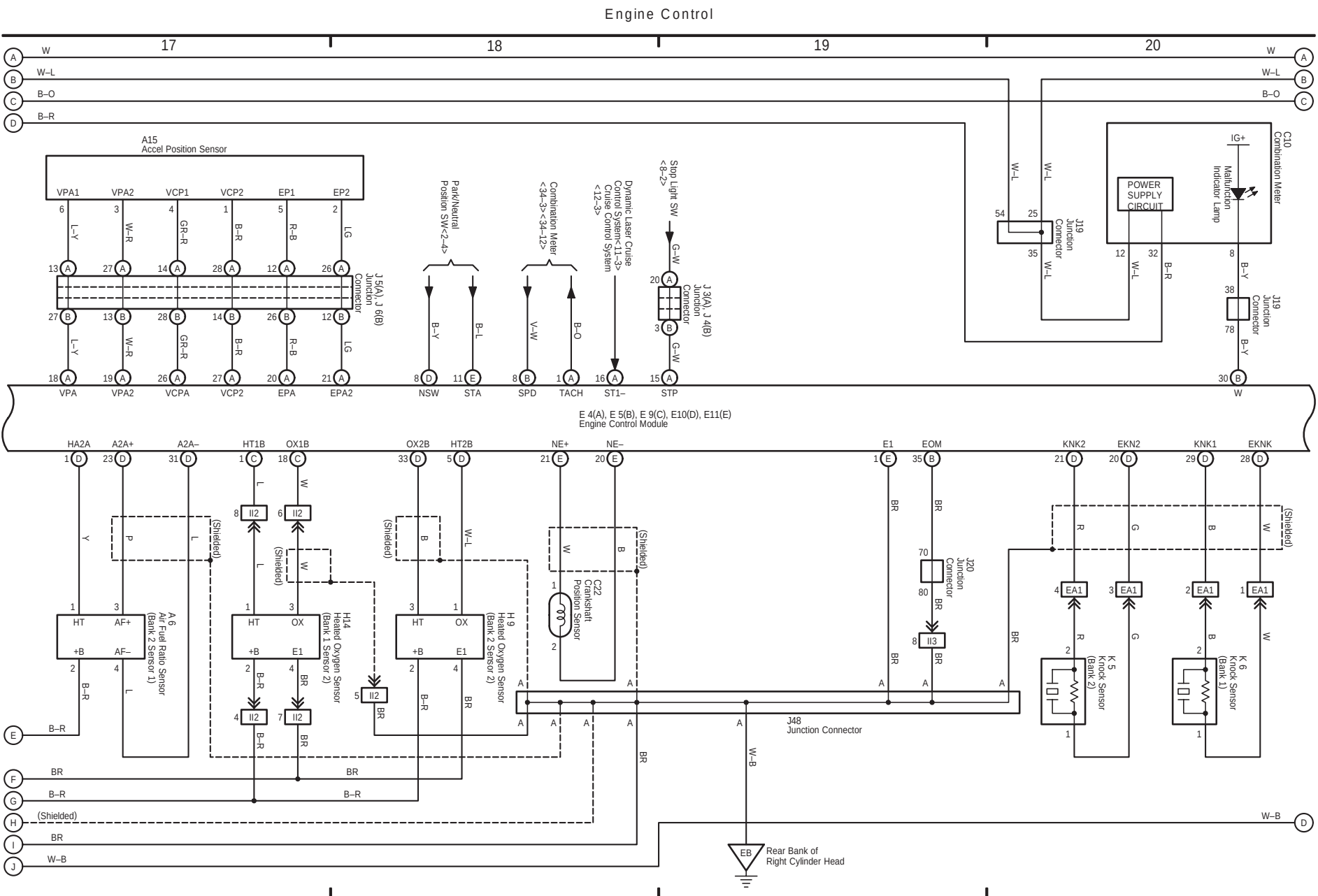
4 SIENNA (Cont' d)



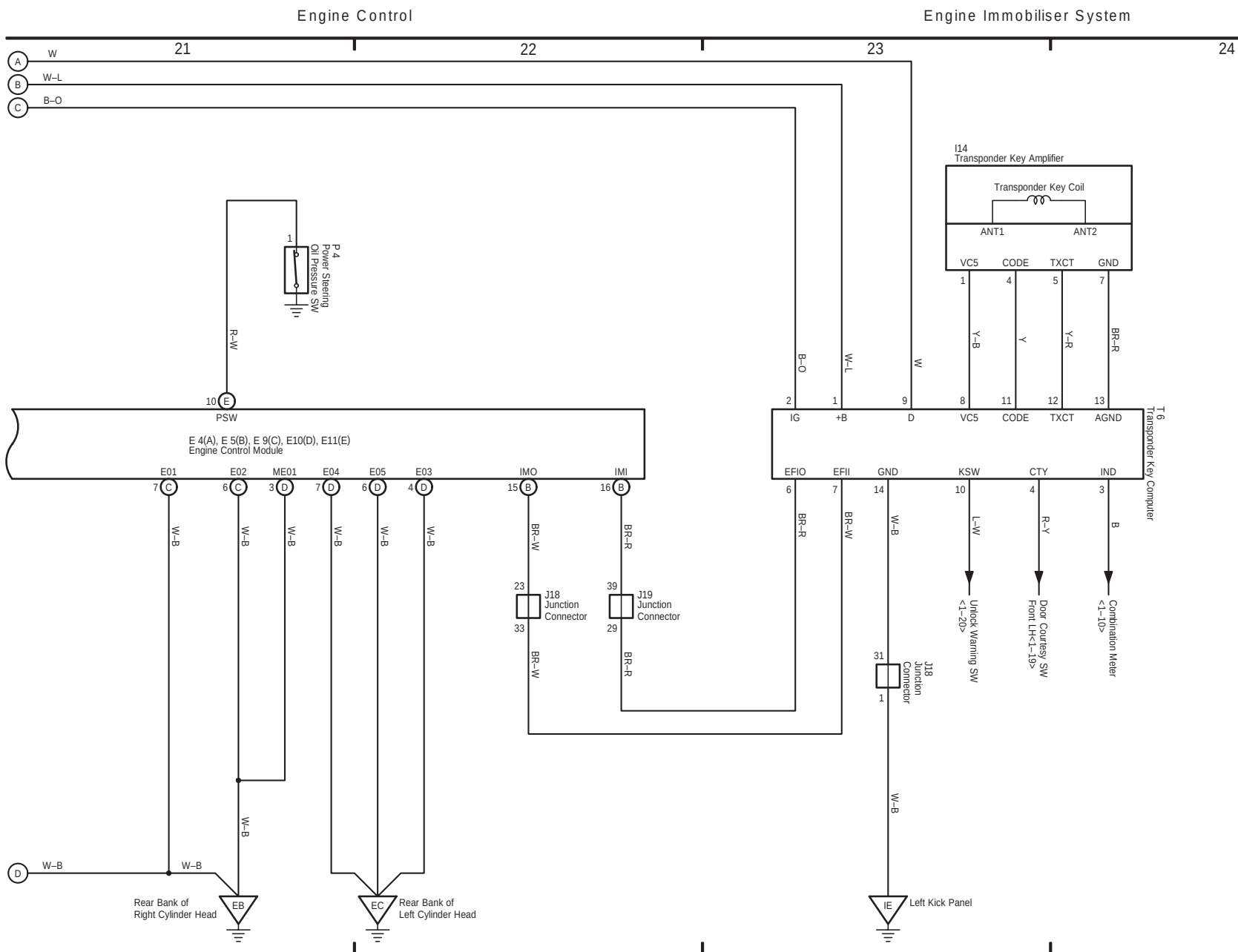


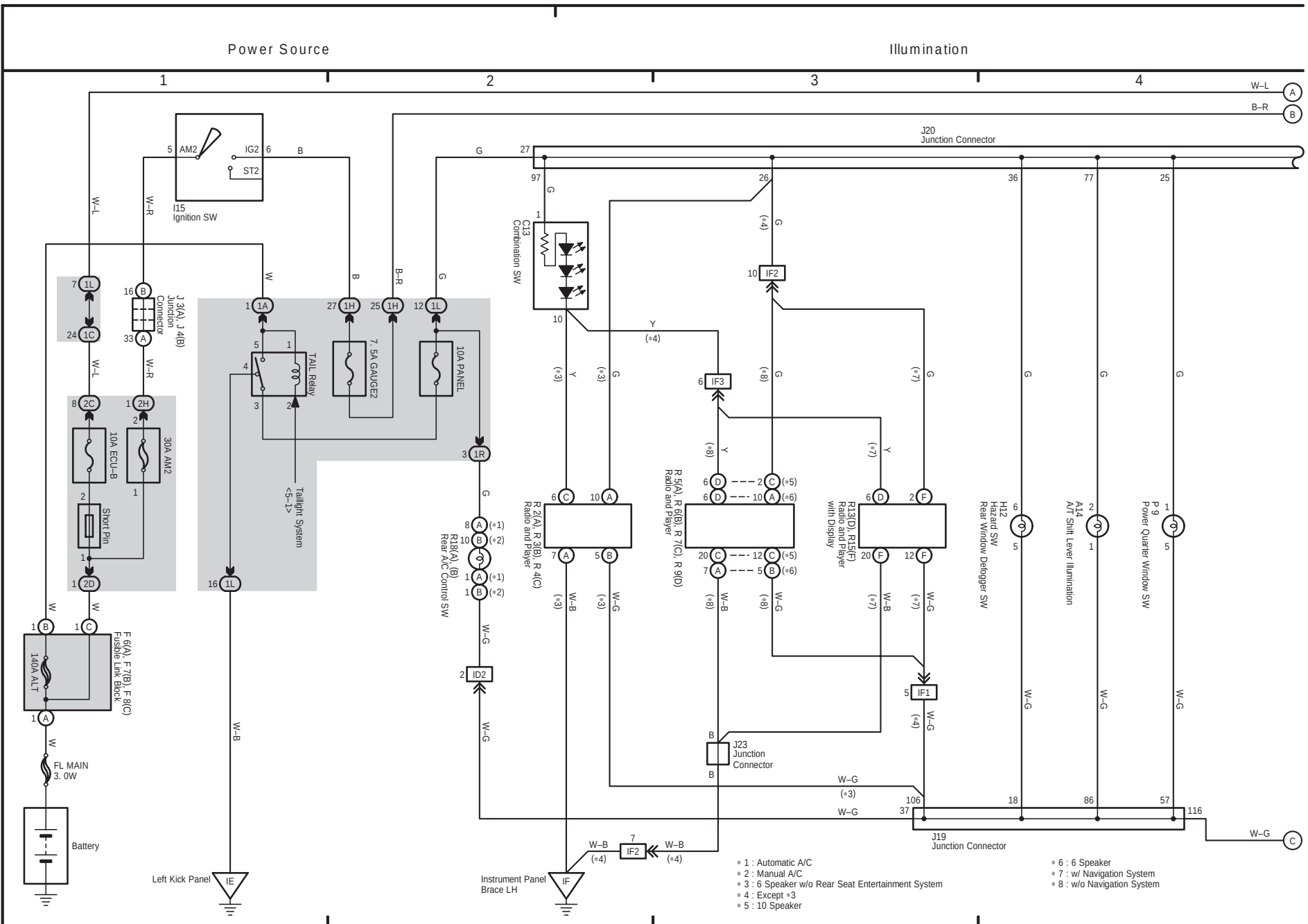
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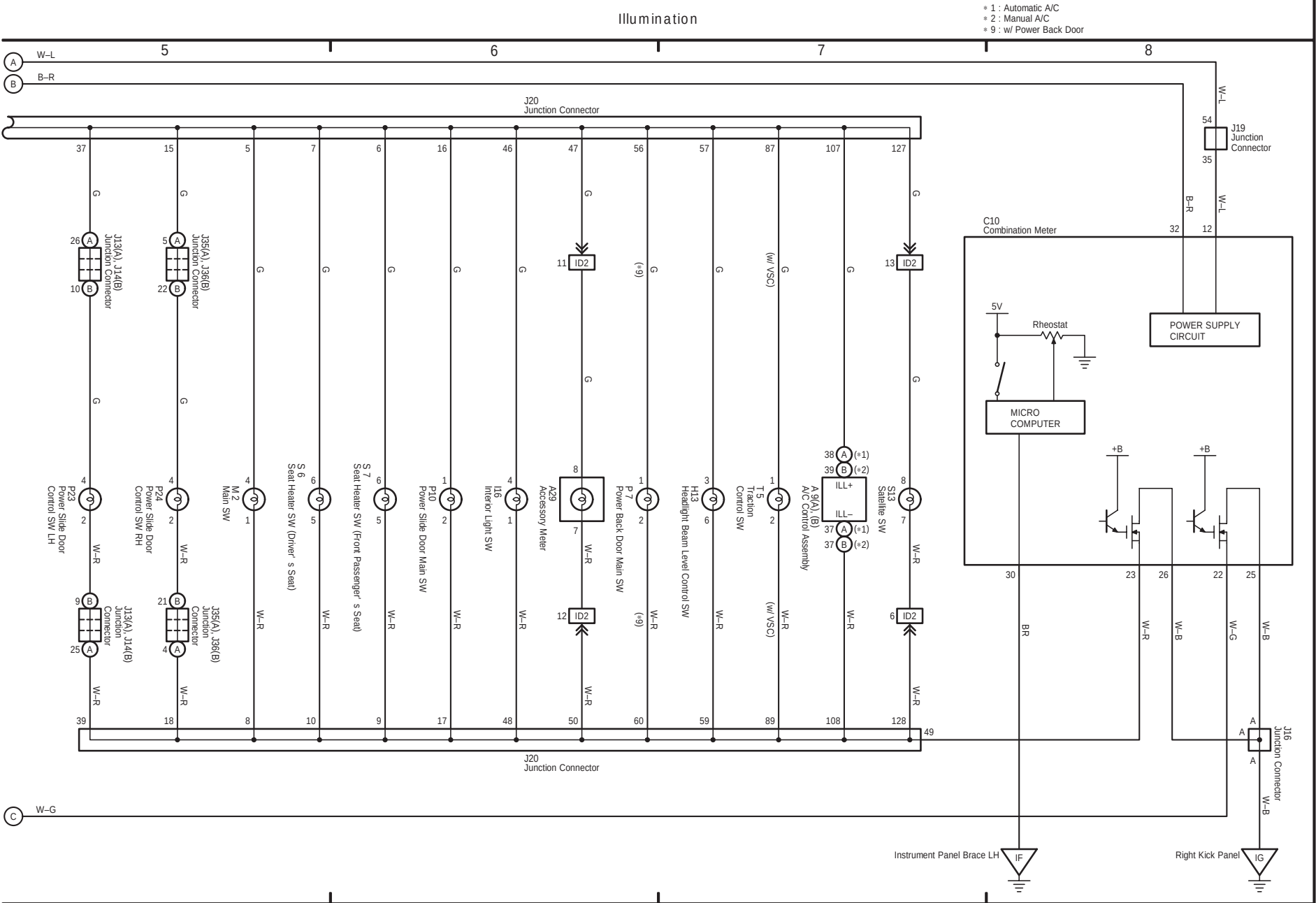
4 SIENNA (Cont' d)



4 SIENNA (Cont' d)

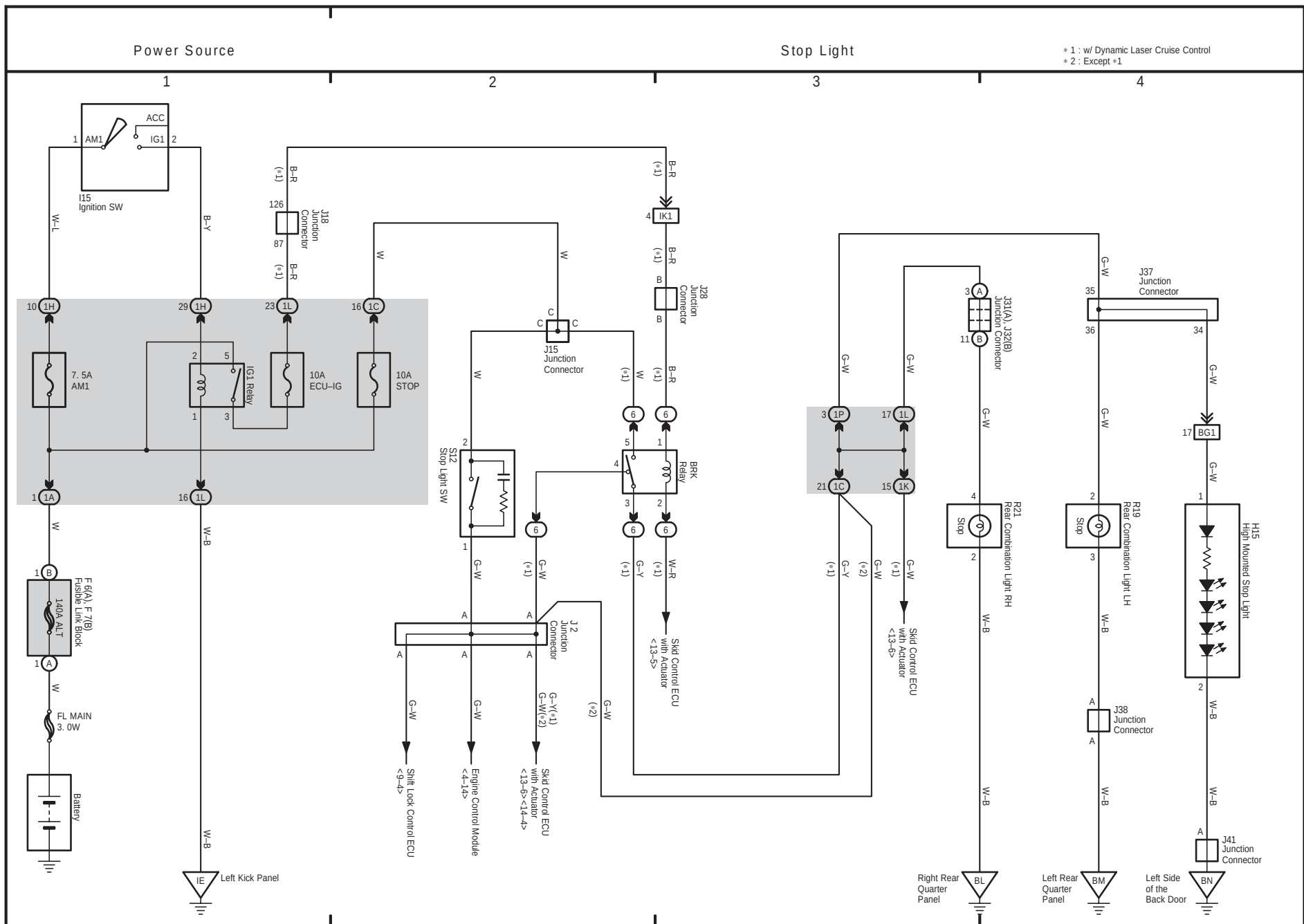






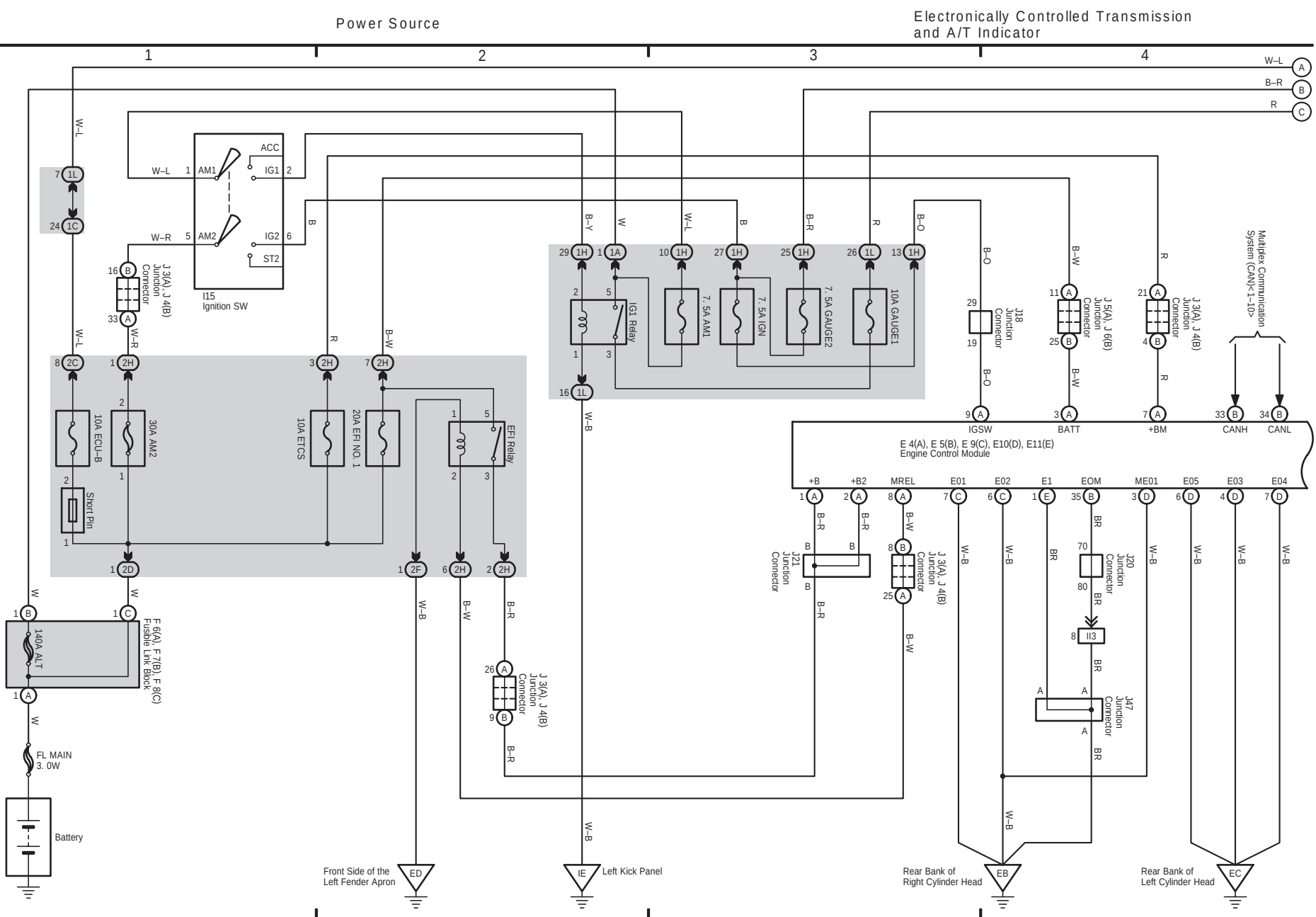
SIENNA (EM0530U)

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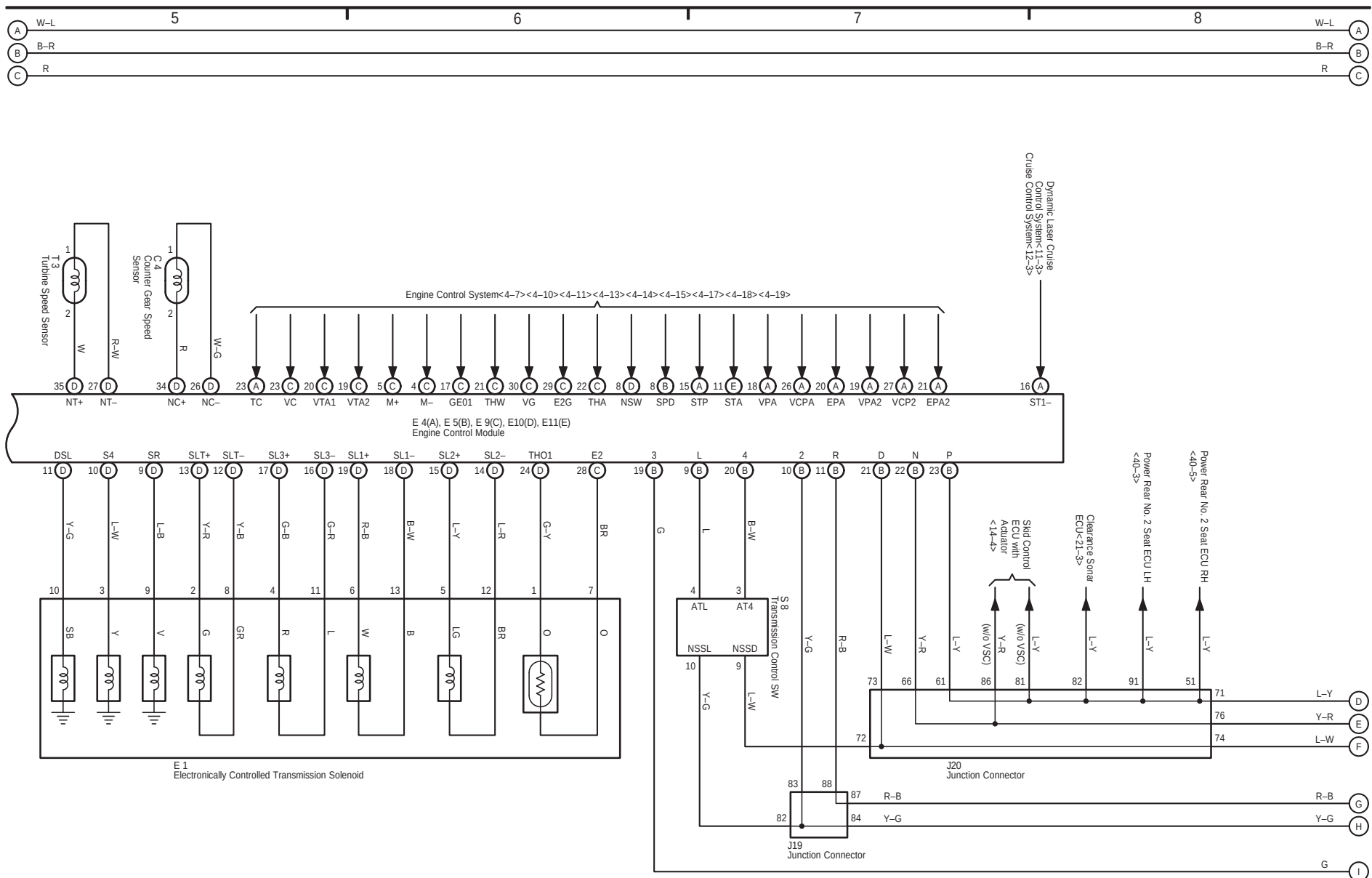


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10 SIENNA

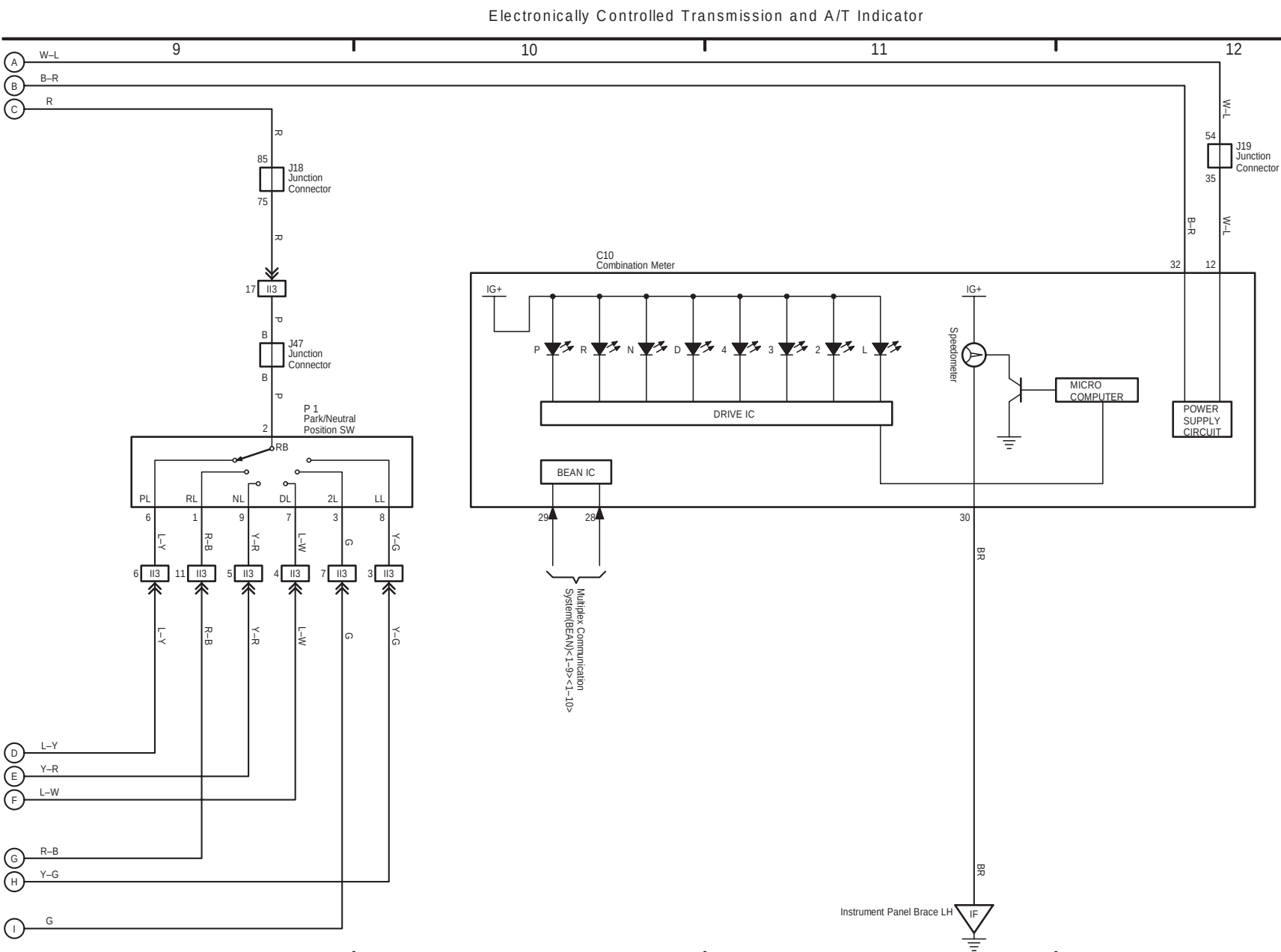


Electronically Controlled Transmission and A/T Indicator



M OVERALL ELECTRICAL WIRING DIAGRAM

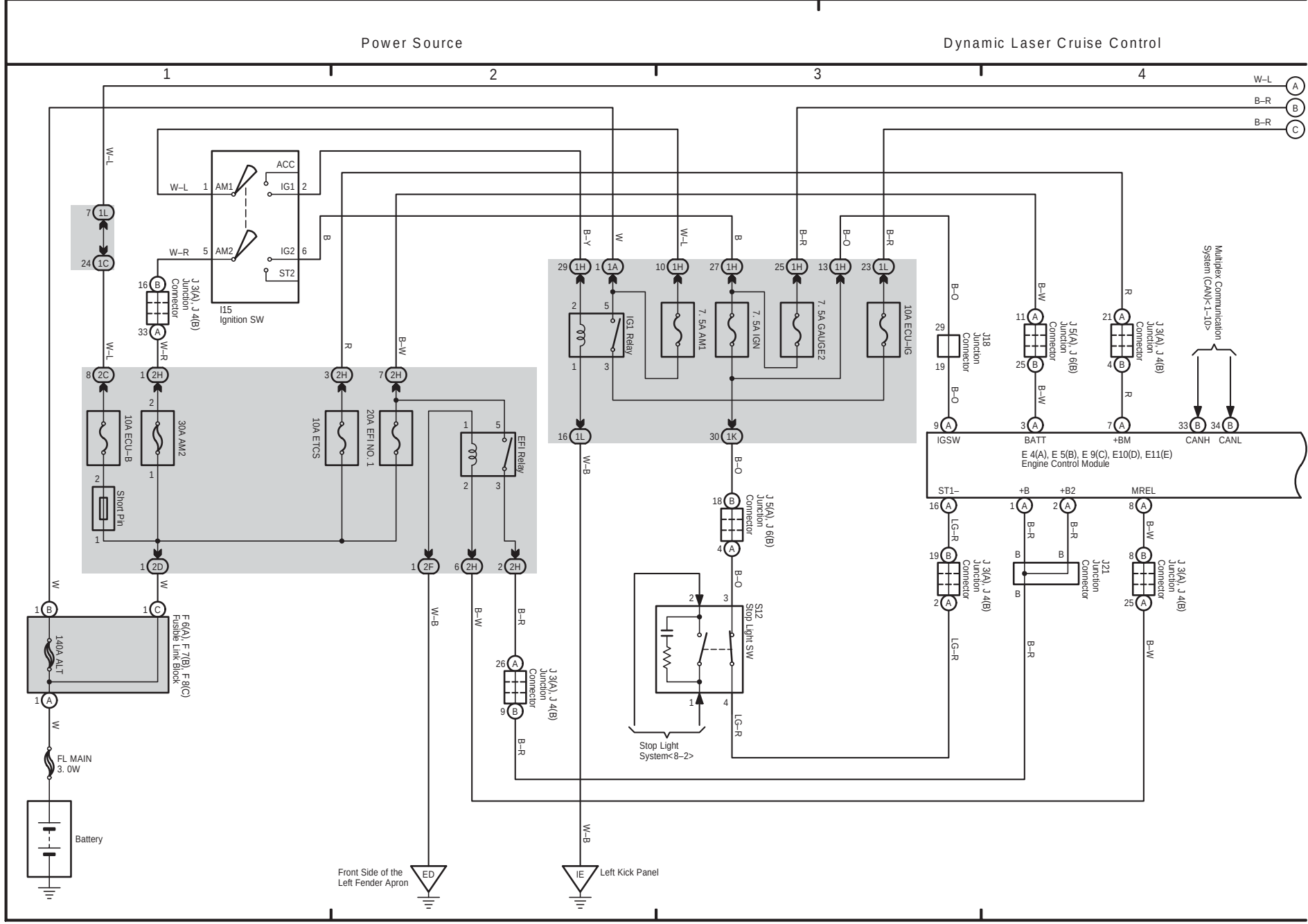
10 SIENNA (Cont' d)



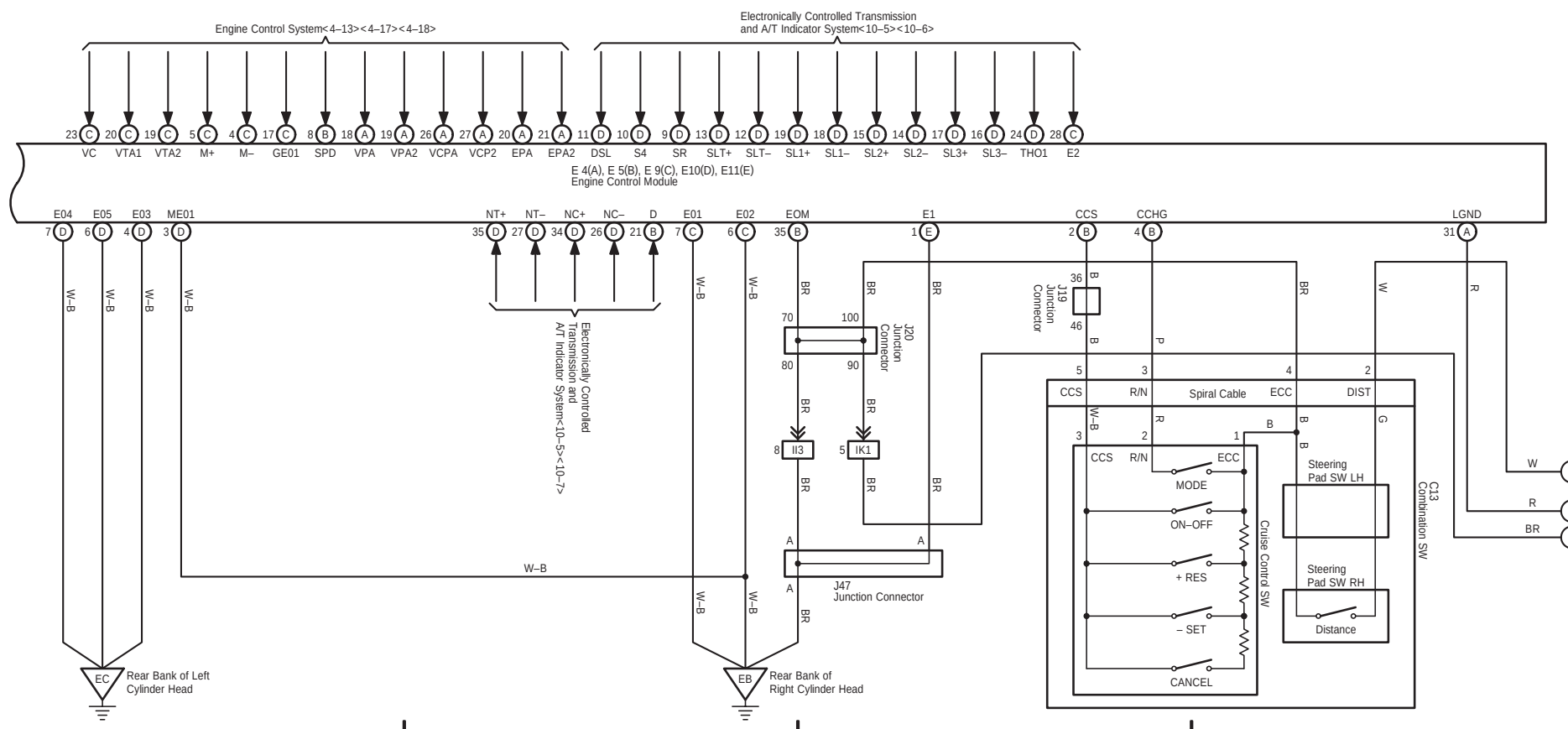
M OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

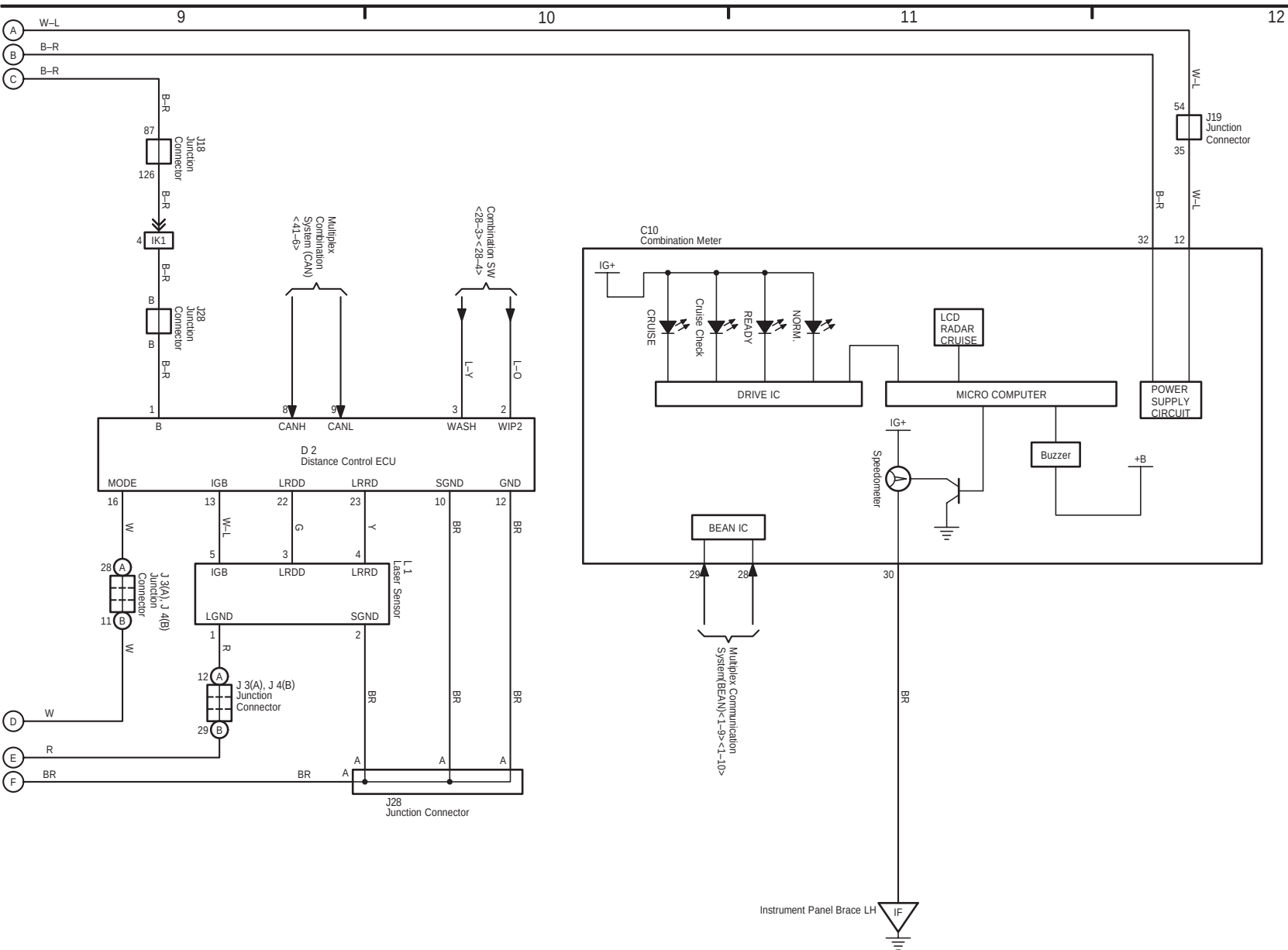
11 SIENNA

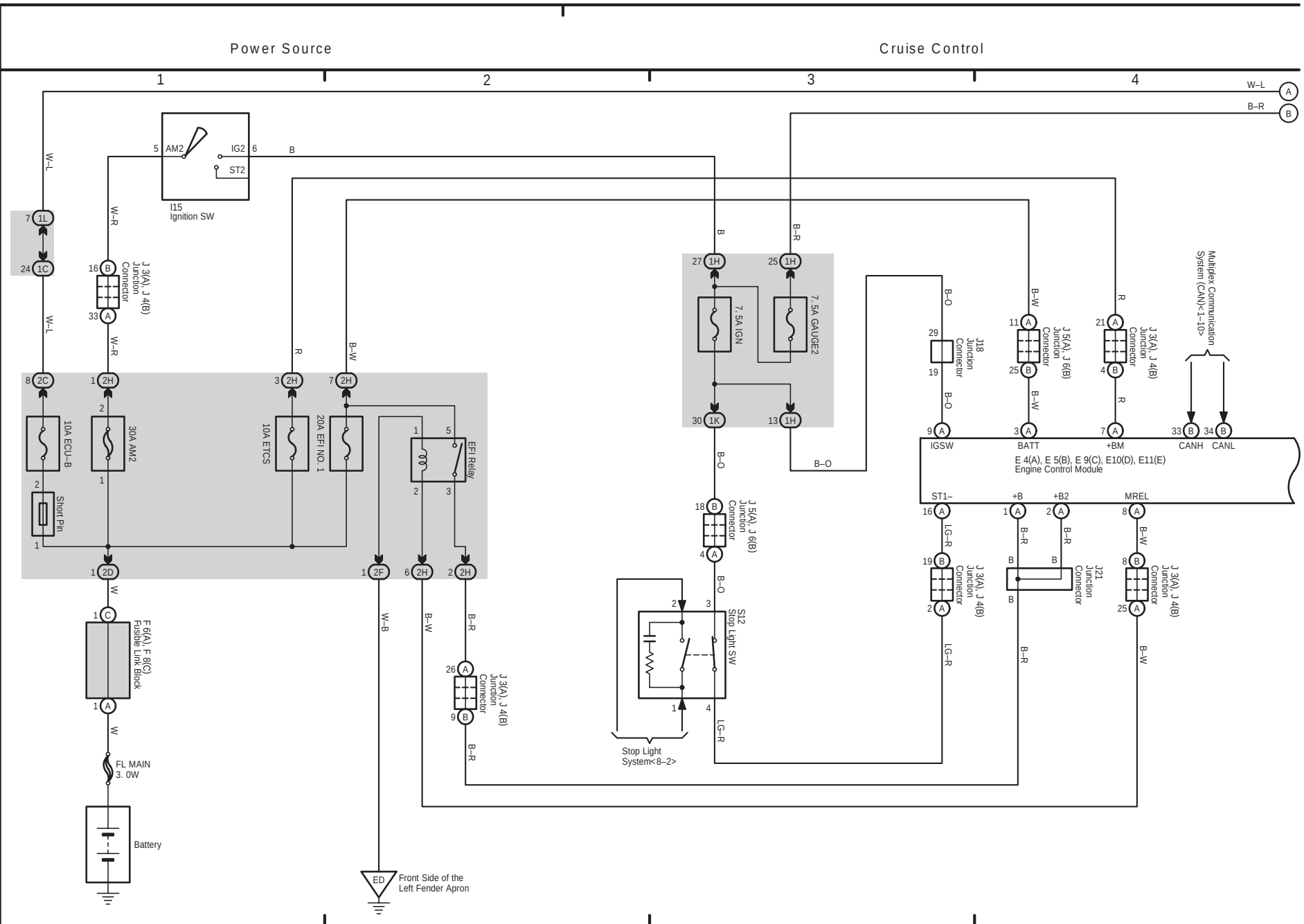


A horizontal number line with tick marks at 5, 6, 7, and 8. Three points are marked: A is at 5, B is at 6, and C is at 7. To the left of each point is a label (A, B, C) and to the right is a label (W-L, B-R, B-R).

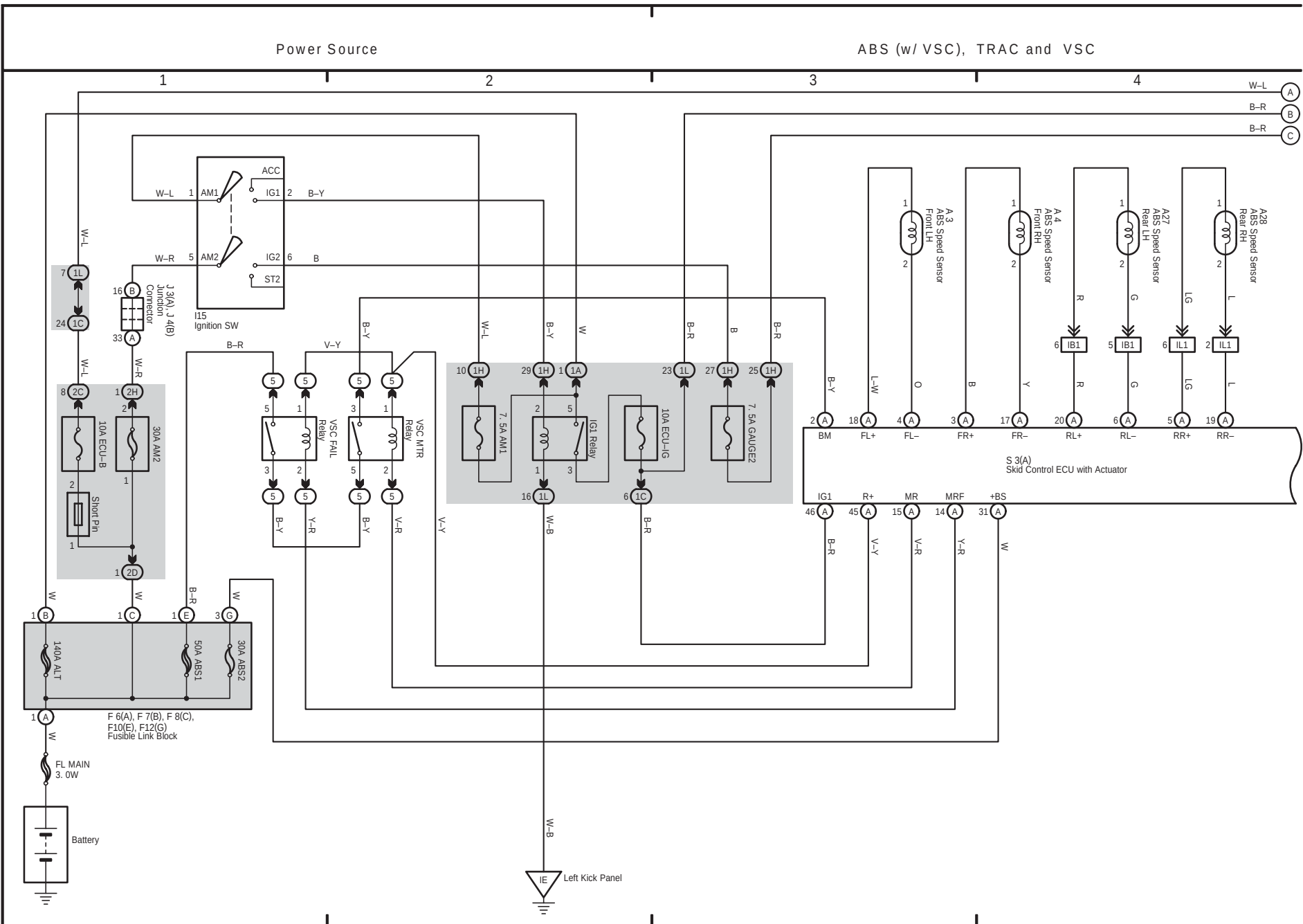


Dynamic Laser Cruise Control









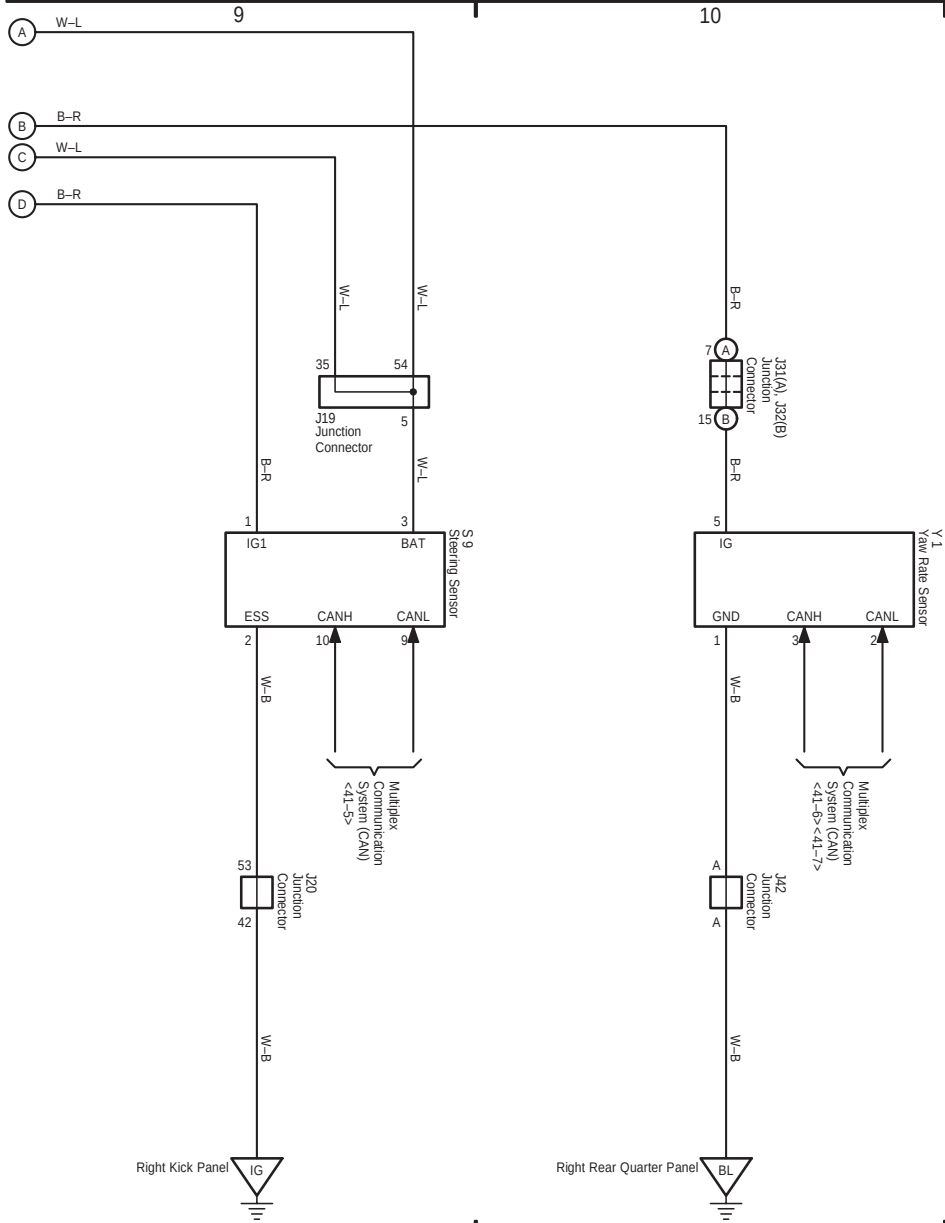
- * 4 : Manual A/C
- * 5 : USA
- * 6 : Except USA



M OVERALL ELECTRICAL WIRING DIAGRAM

13 SIENNA (Cont' d)

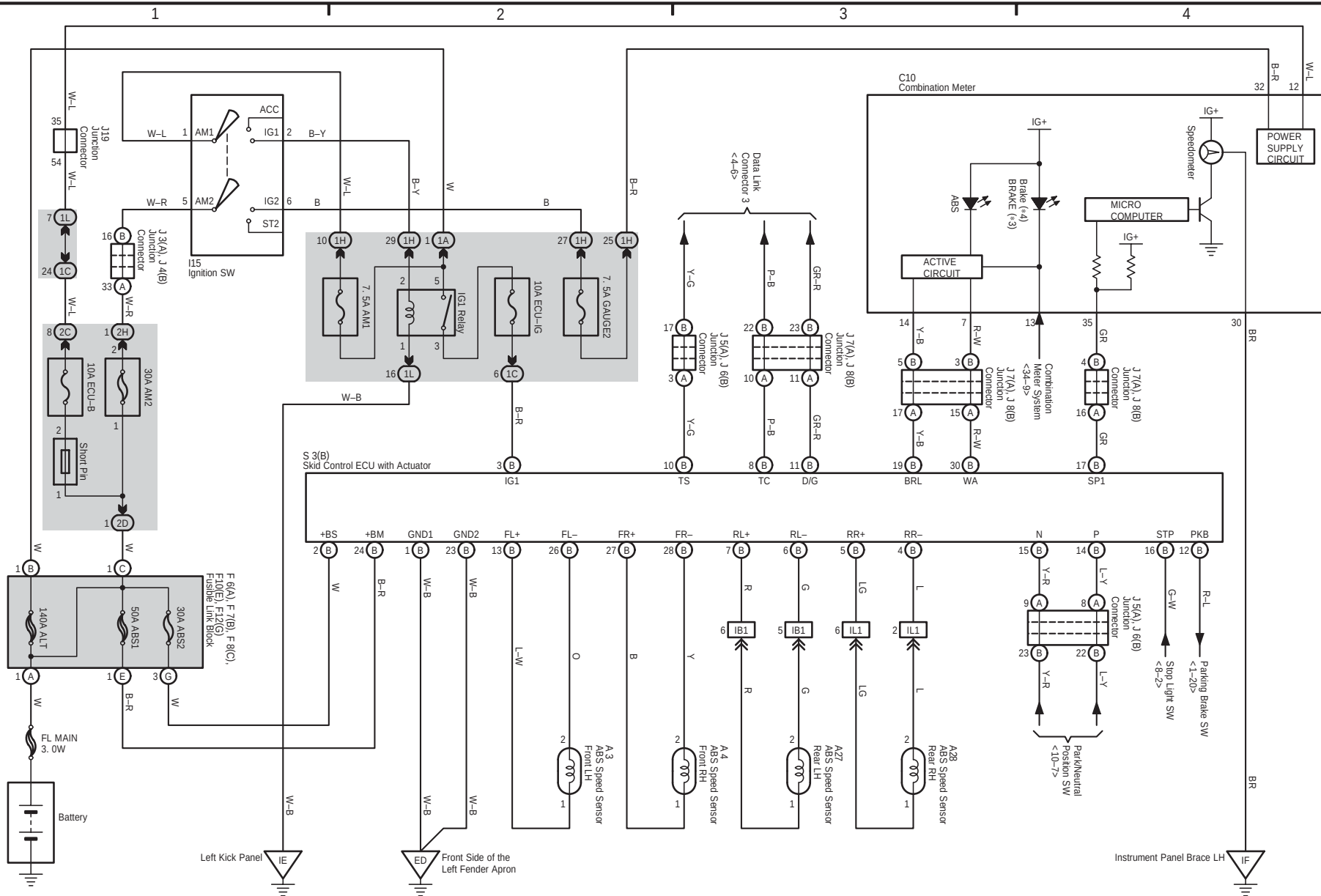
ABS (w/ VSC), TRAC and VSC

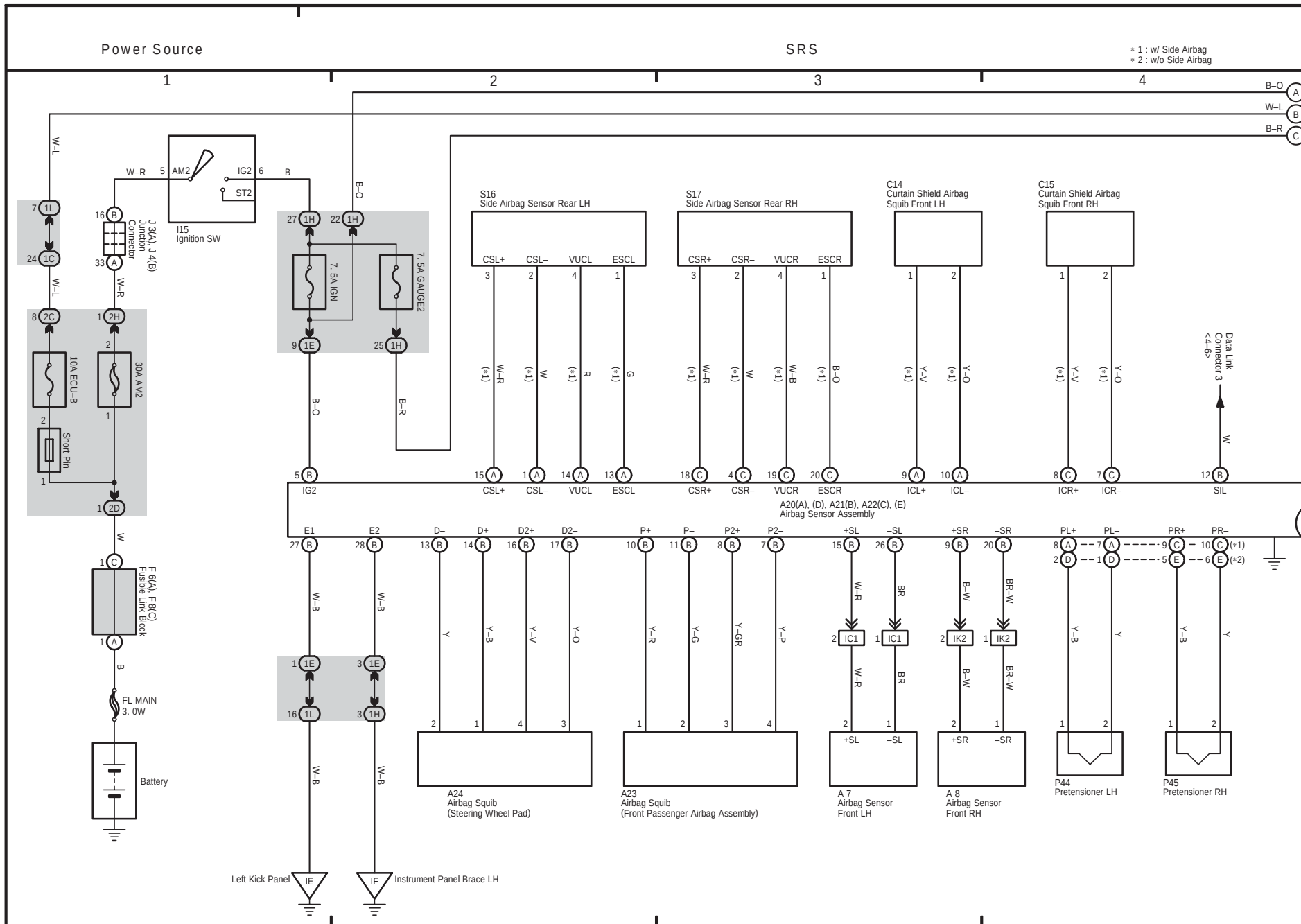


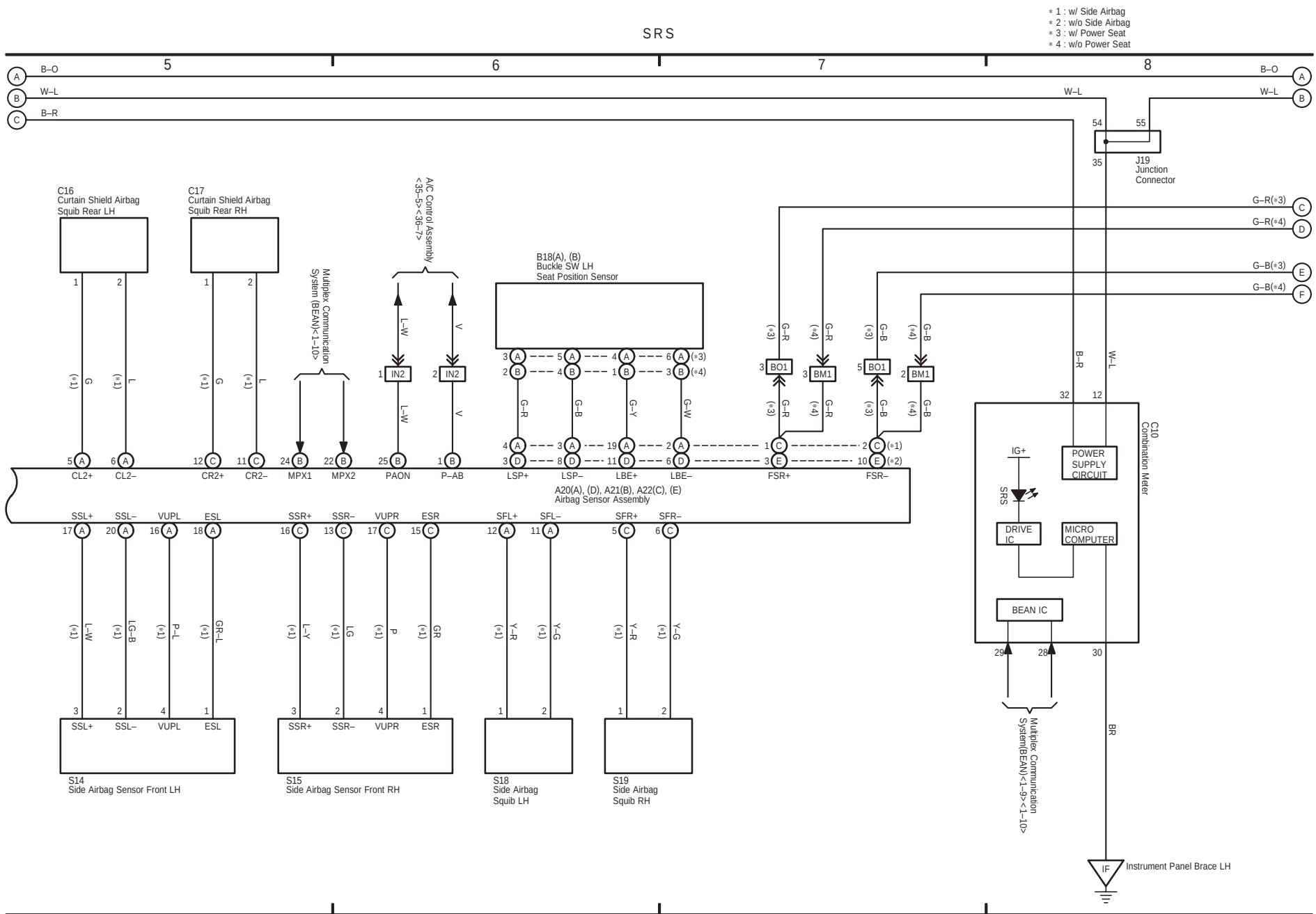
Power Source

ABS (w/o VSC)

- * 1 : Automatic A/C
- * 2 : Manual A/C
- * 3 : USA
- * 4 : Except USA



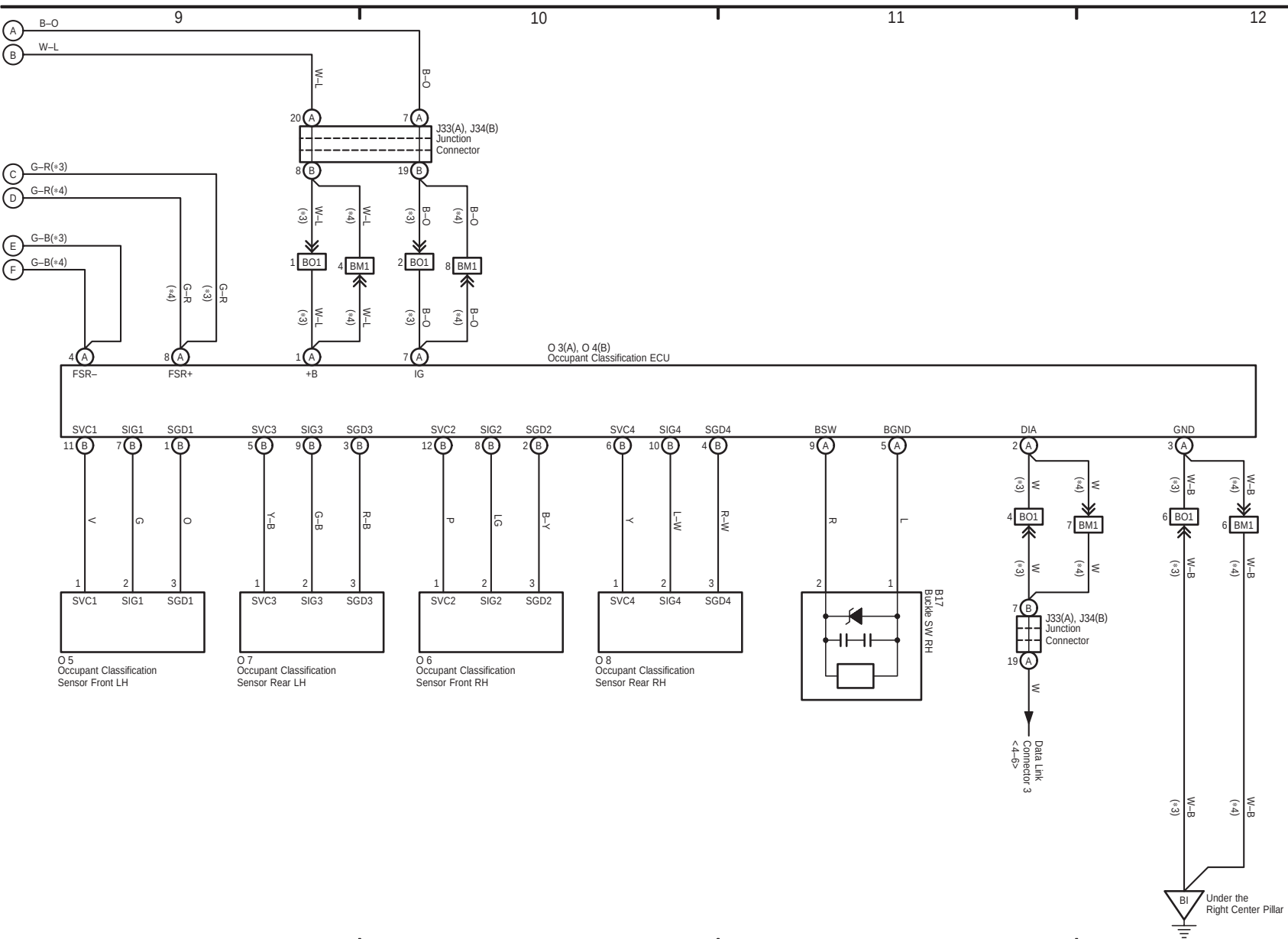


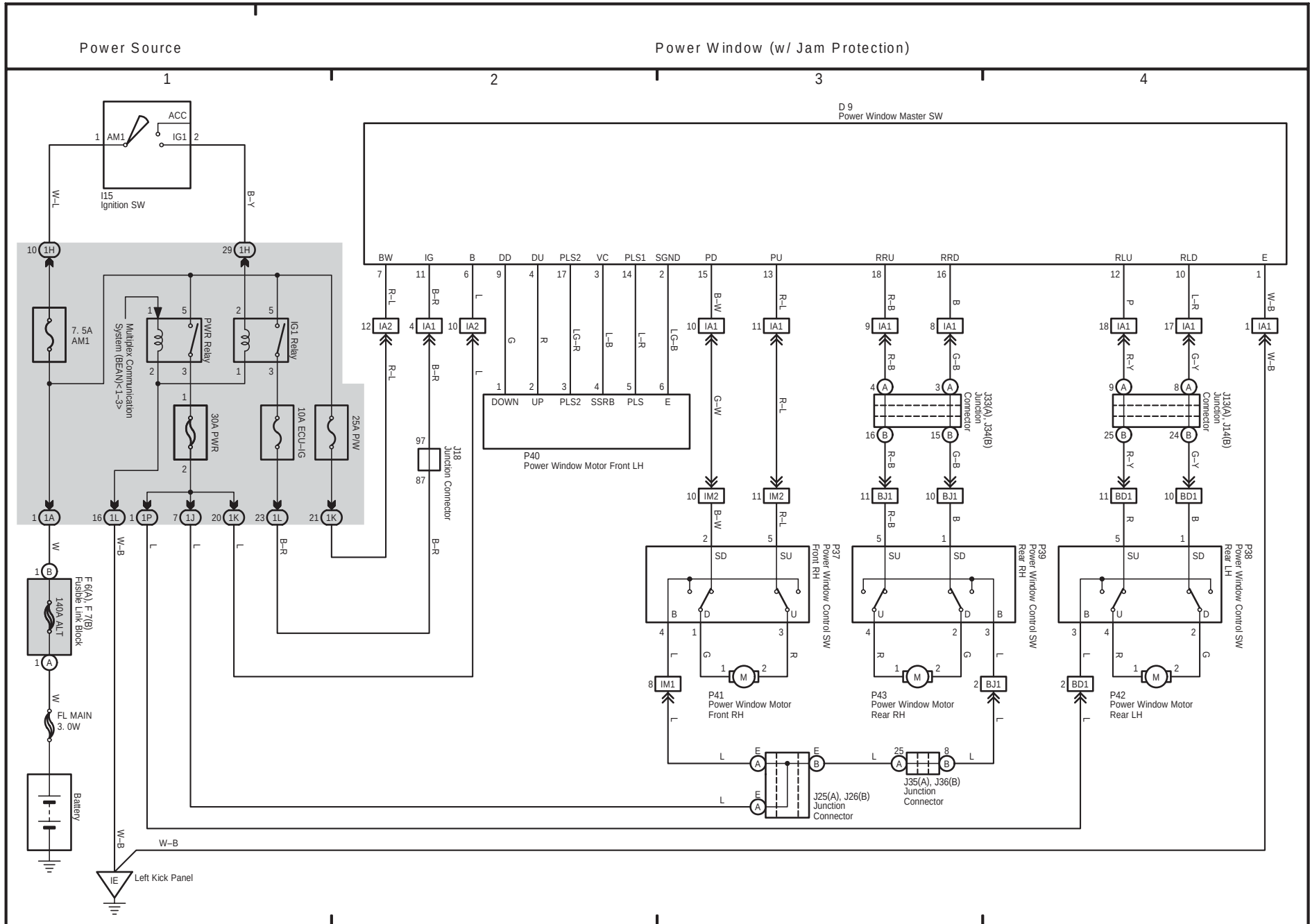


* 3 : w/ Power Seat
* 4 : w/o Power Seat

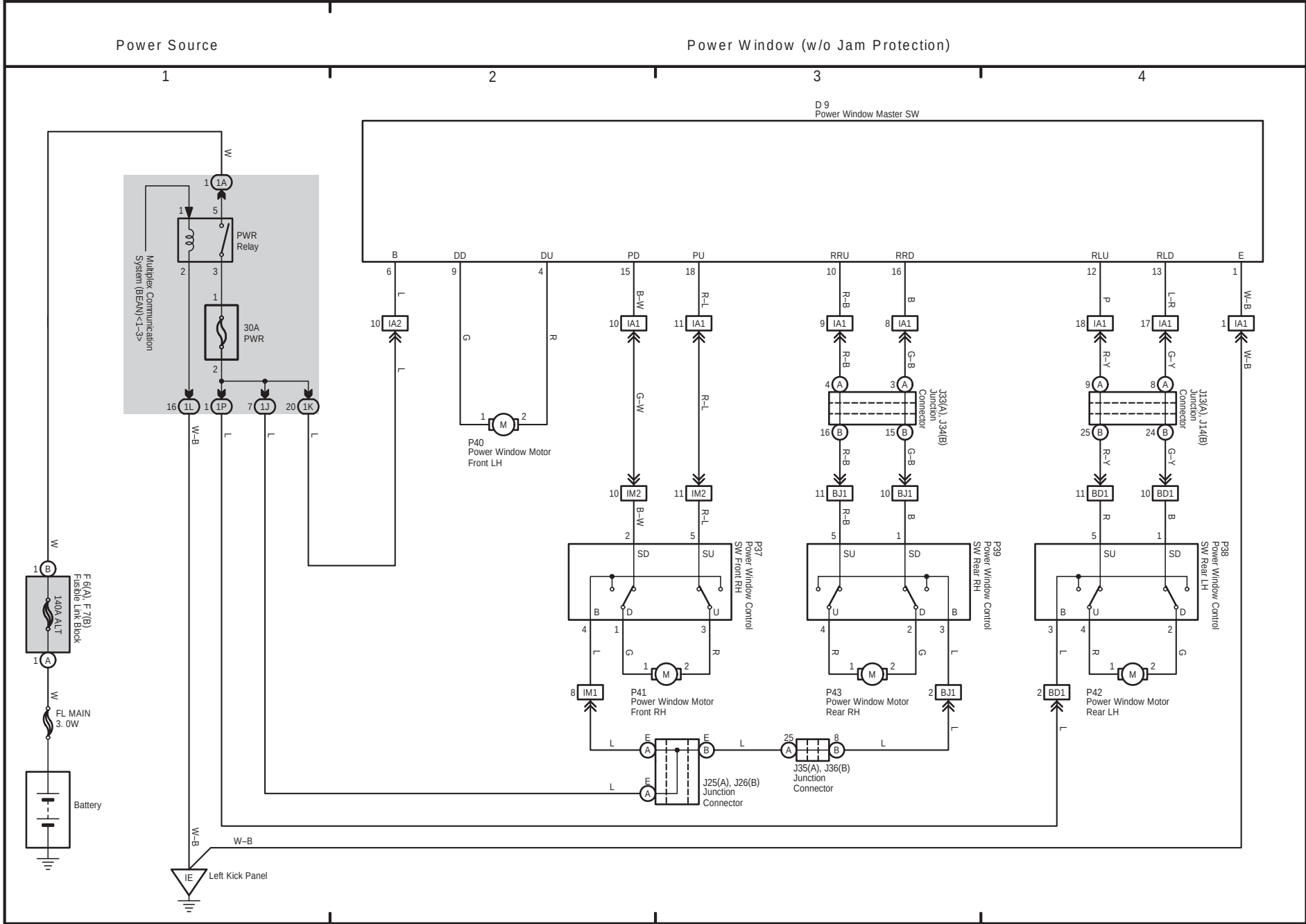
SRS

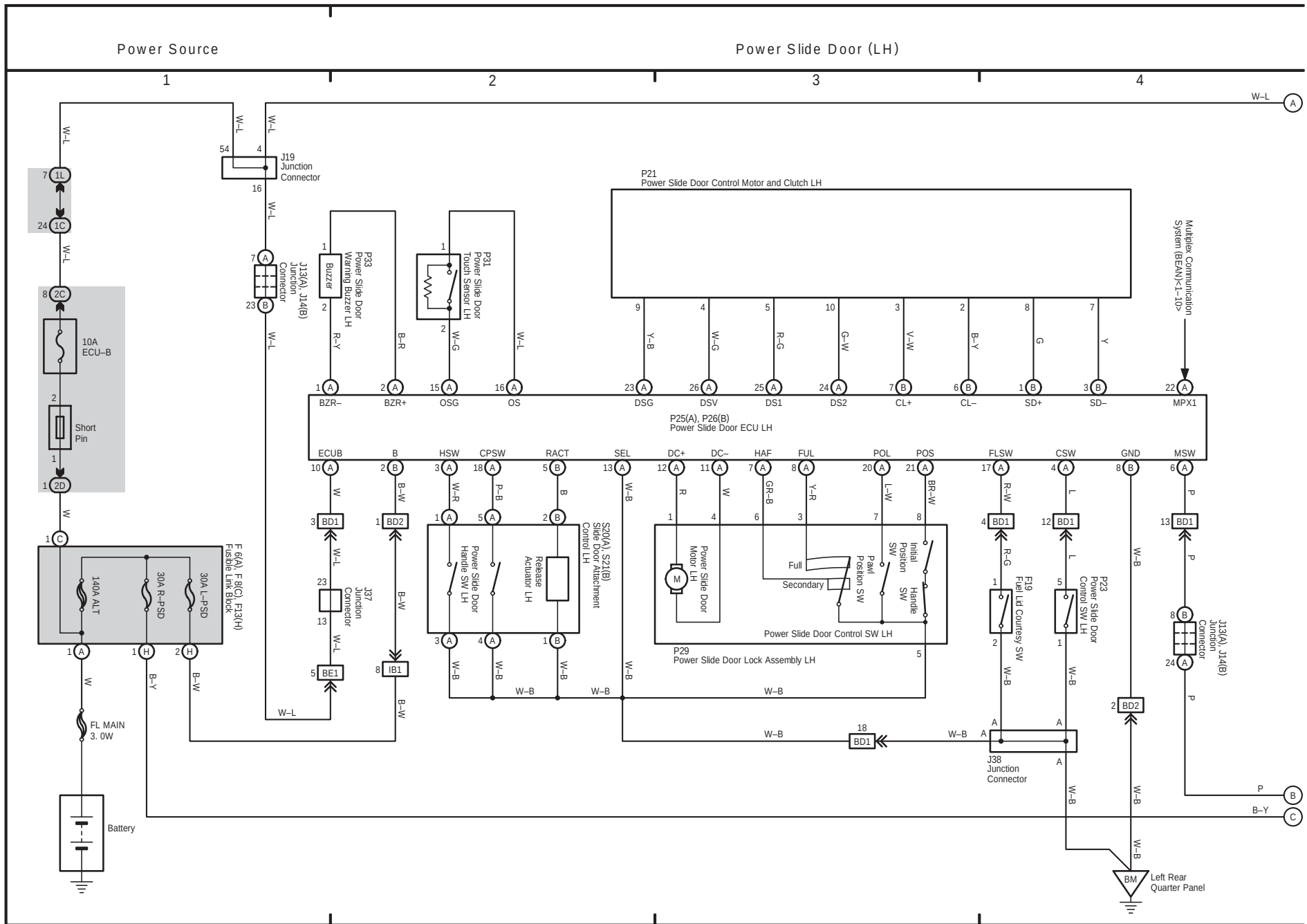
15 SIENNA (Cont' d)





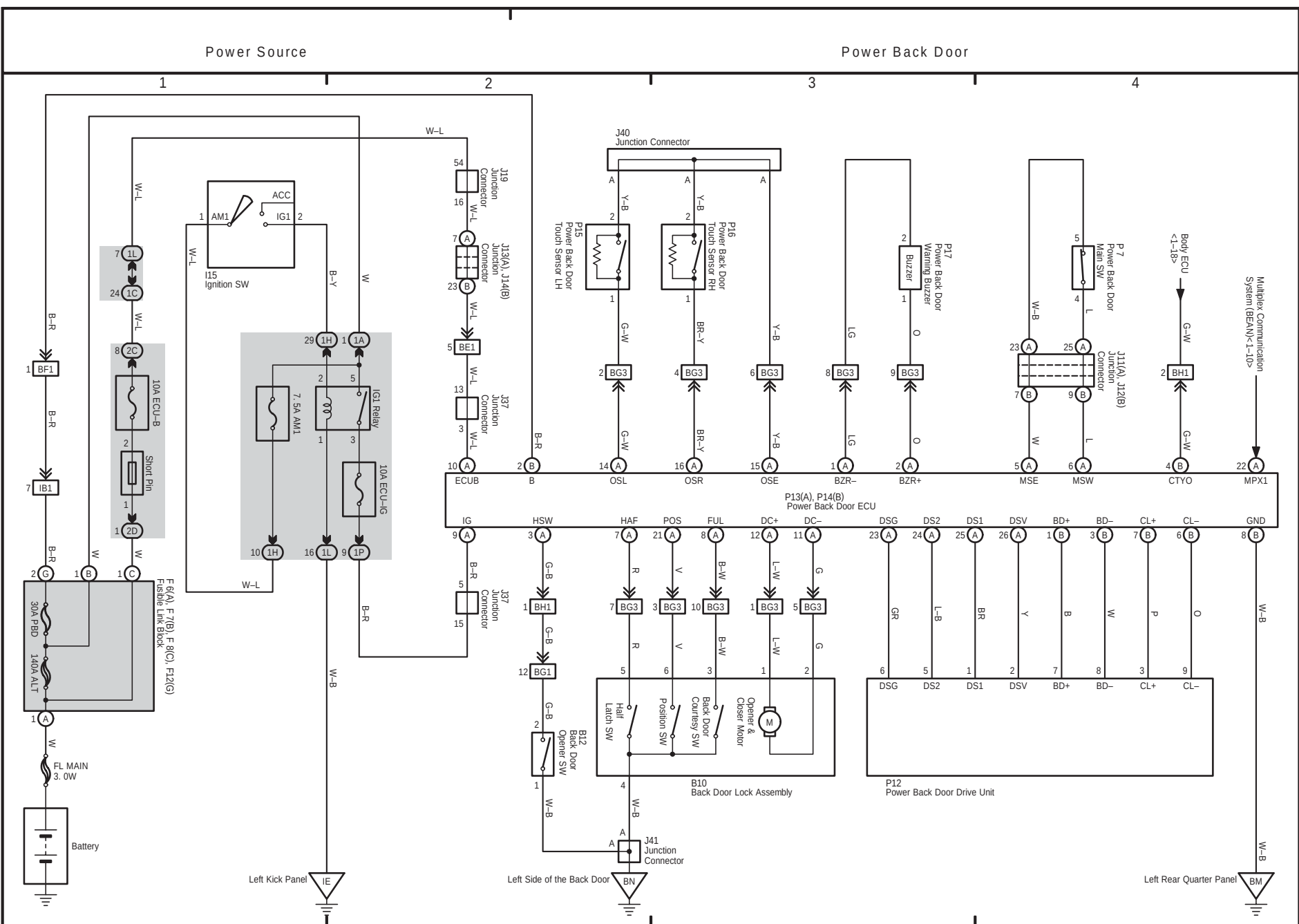
17 SIENNA

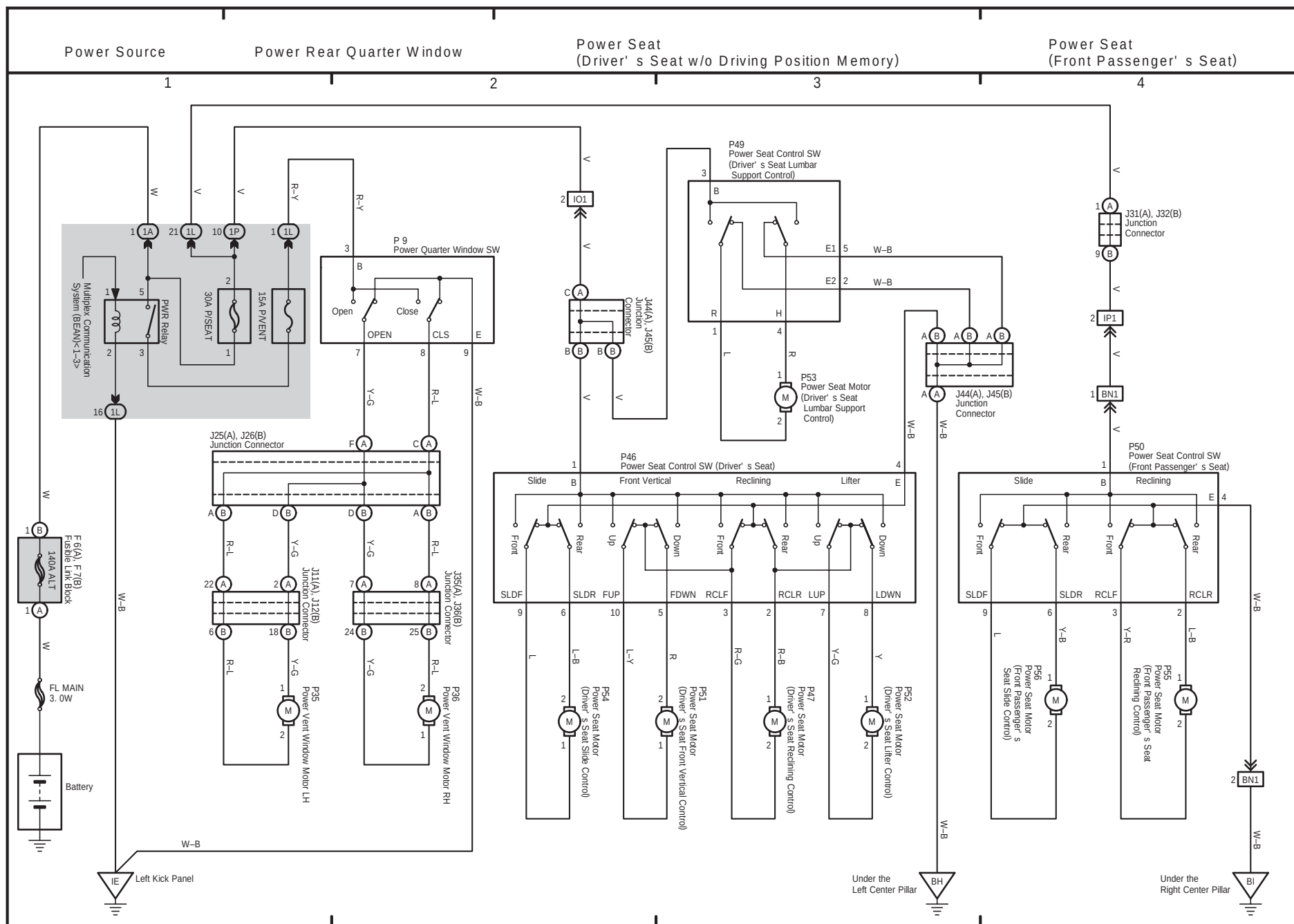




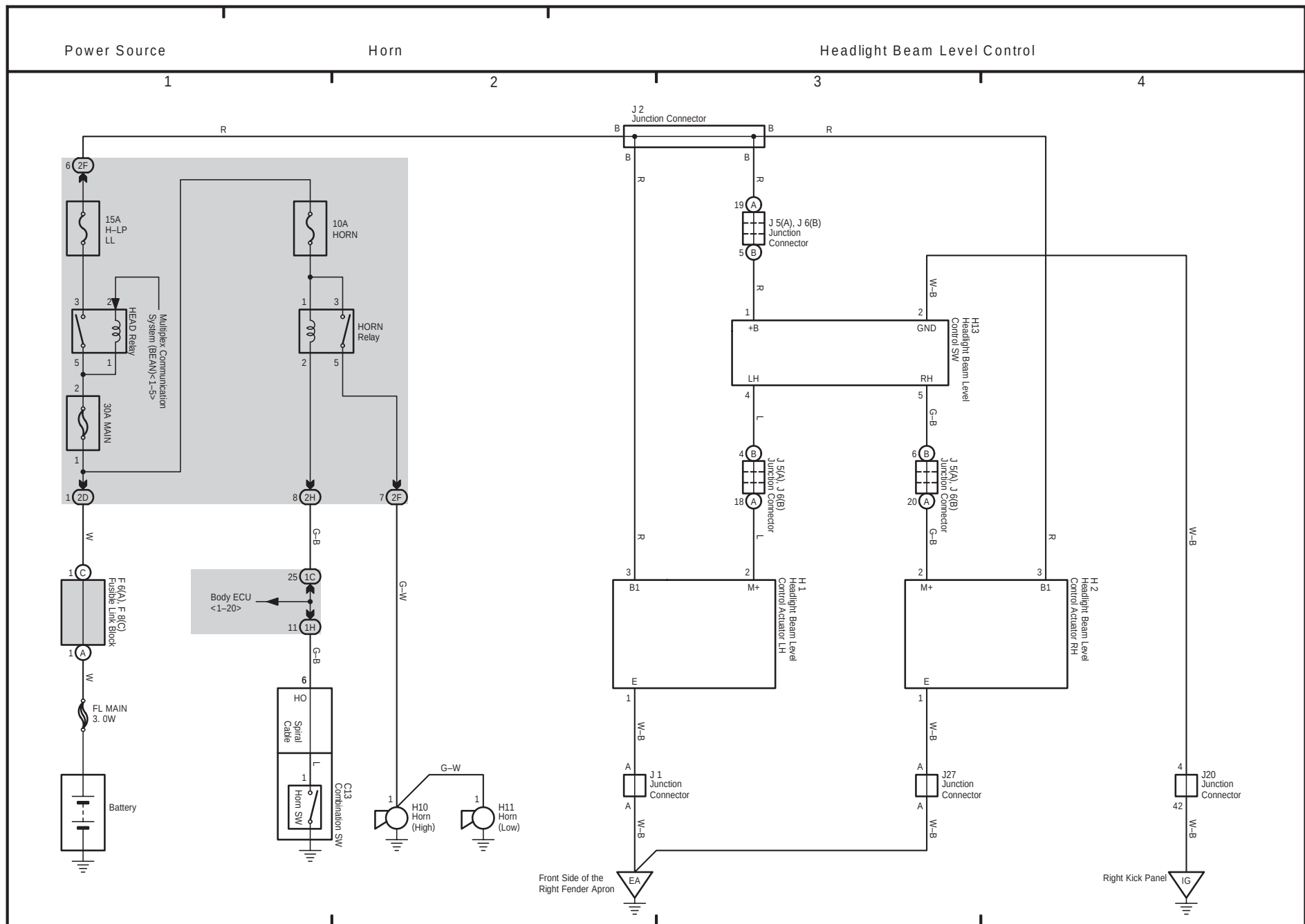
M





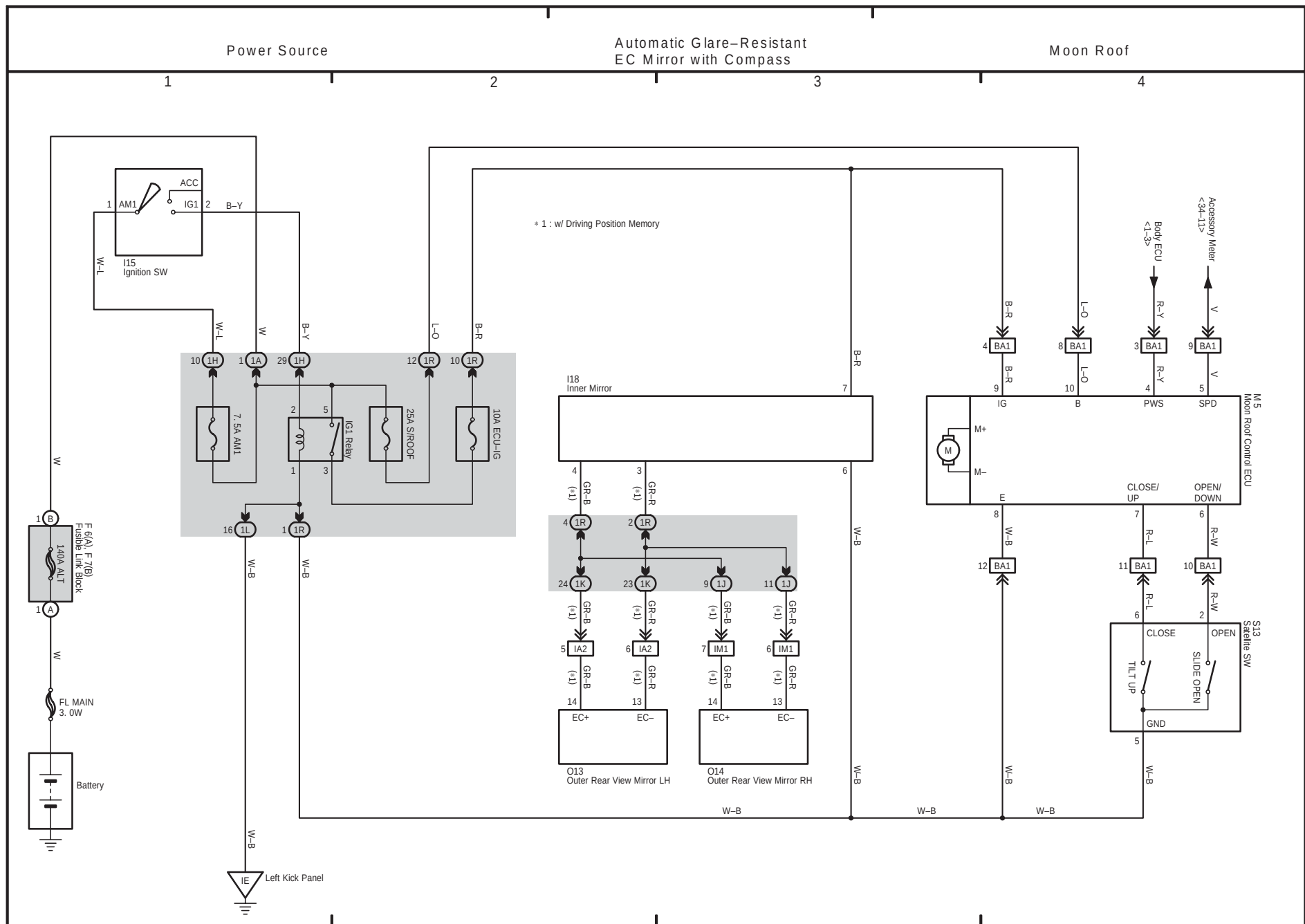


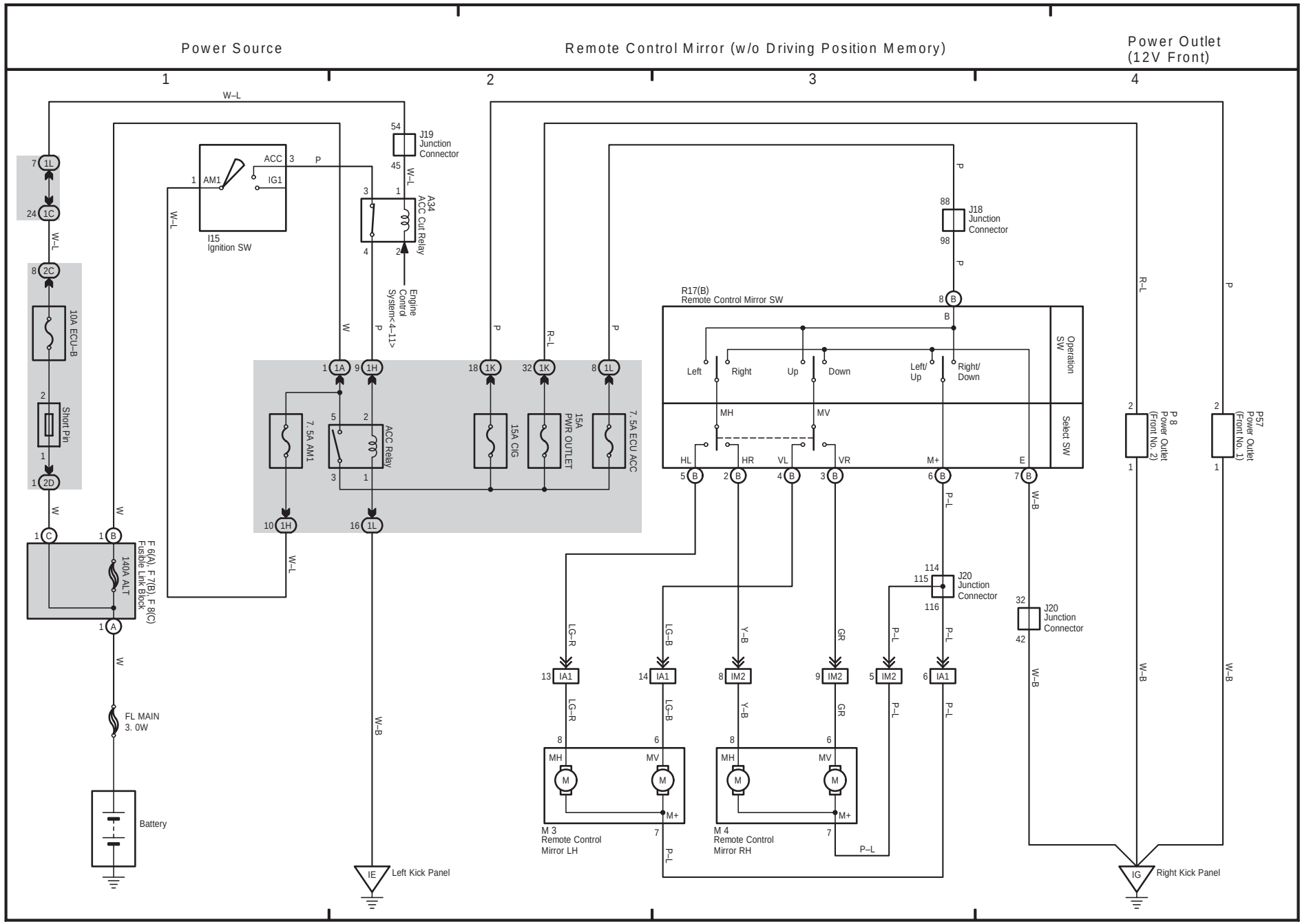
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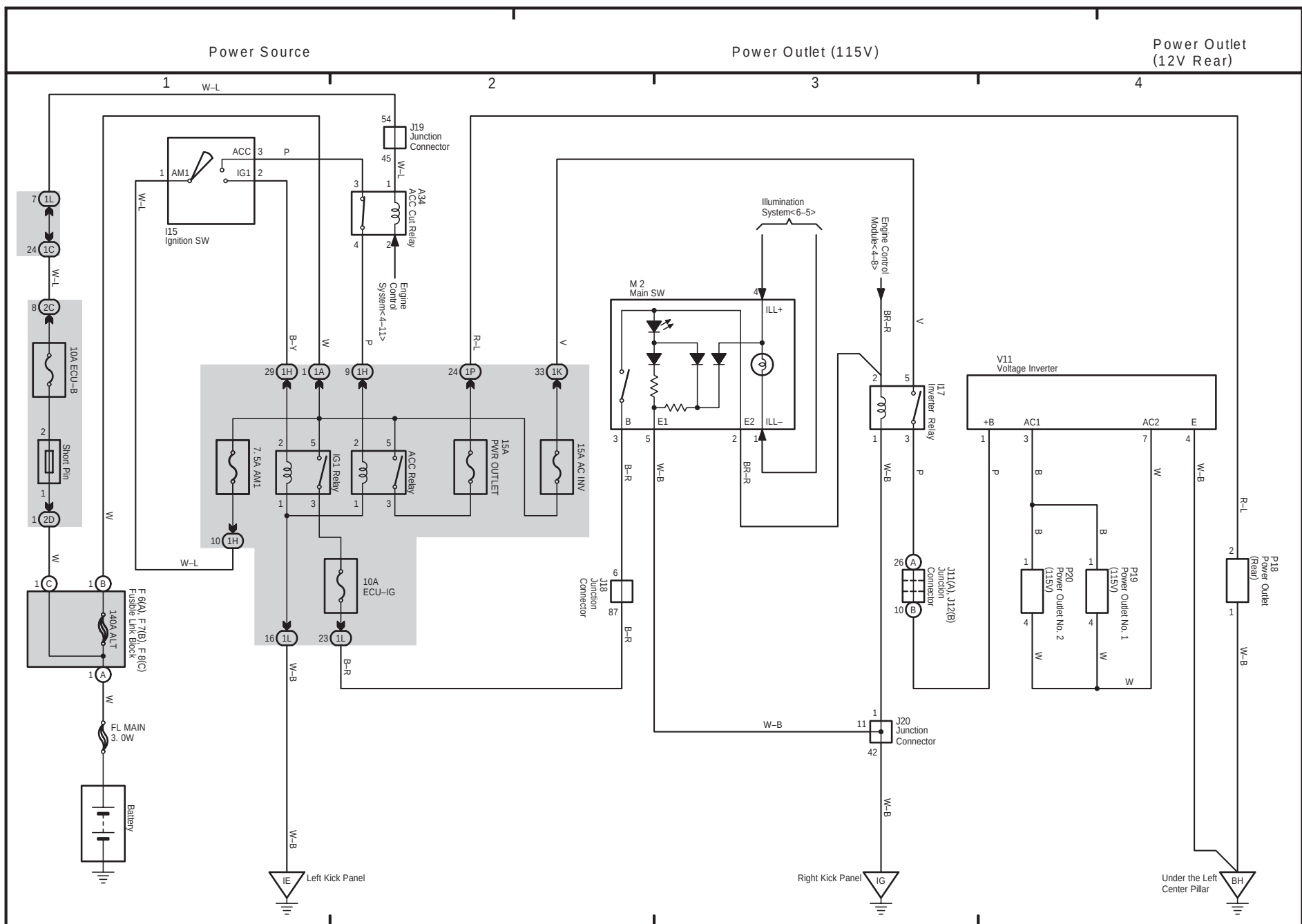


The diagram is a detailed wiring schematic for a vehicle's seat heater system, organized into four numbered sections:

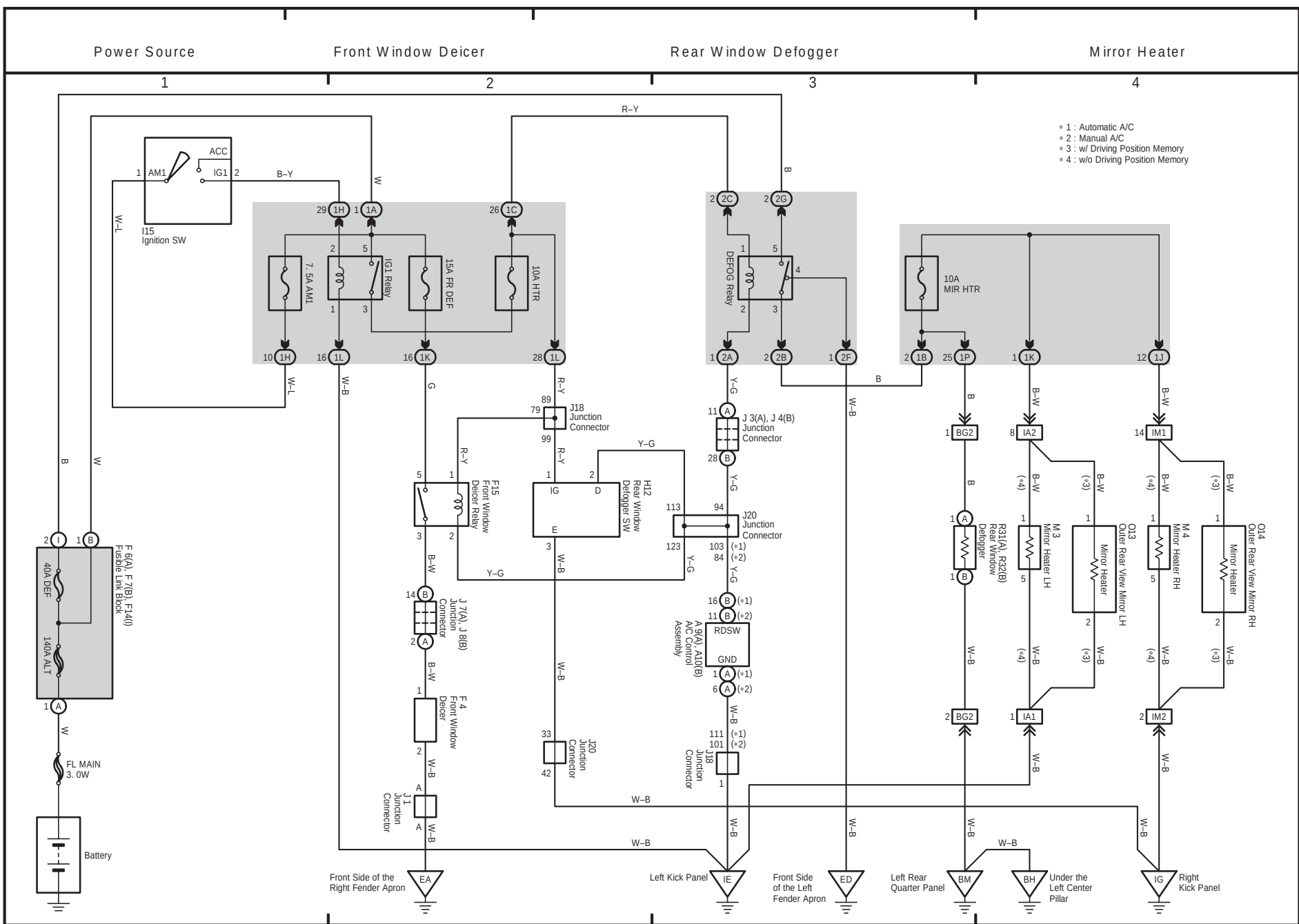
- Section 1: Power Source** - Shows the battery connected to the main fuse block (FL MAIN 3.0W). Power flows through a fuse link block (F 6(A), F 7(B), 140A ALT) to the ignition switch (I15 Ignition SW). The switch controls the 7.5A AM1 fuse and the 10A ECU-IG fuse. The 10A ECU-IG fuse feeds the 15A S-HTR (Seat Heater Relay) and the 10A ECU-IG fuse.
- Section 2: Driver's Side** - Shows the driver's side seat heater circuit. Power from the 10A ECU-IG fuse goes to the 15A S-HTR. The circuit includes a junction connector (J118) and a junction connector (J11(A), J12(B)). The driver's side seat heater (S6) is controlled by a switch (SW) and a temperature sensor (RV). The seat heater is connected to the seat cushion and seat back heaters.
- Section 3: Passenger's Side** - Shows the passenger's side seat heater circuit. Power from the 10A ECU-IG fuse goes to the 15A S-HTR. The circuit includes a junction connector (J118) and a junction connector (J33(A), J34(B)). The passenger's side seat heater (S7) is controlled by a switch (SW) and a temperature sensor (RV). The seat heater is connected to the seat cushion and seat back heaters.
- Section 4: Grounding** - Shows the grounding points for the system. The battery is grounded to the chassis. The seat heaters and temperature sensors are grounded to the chassis through various junction connectors (J118, J11(A), J12(B), J33(A), J34(B), J20).





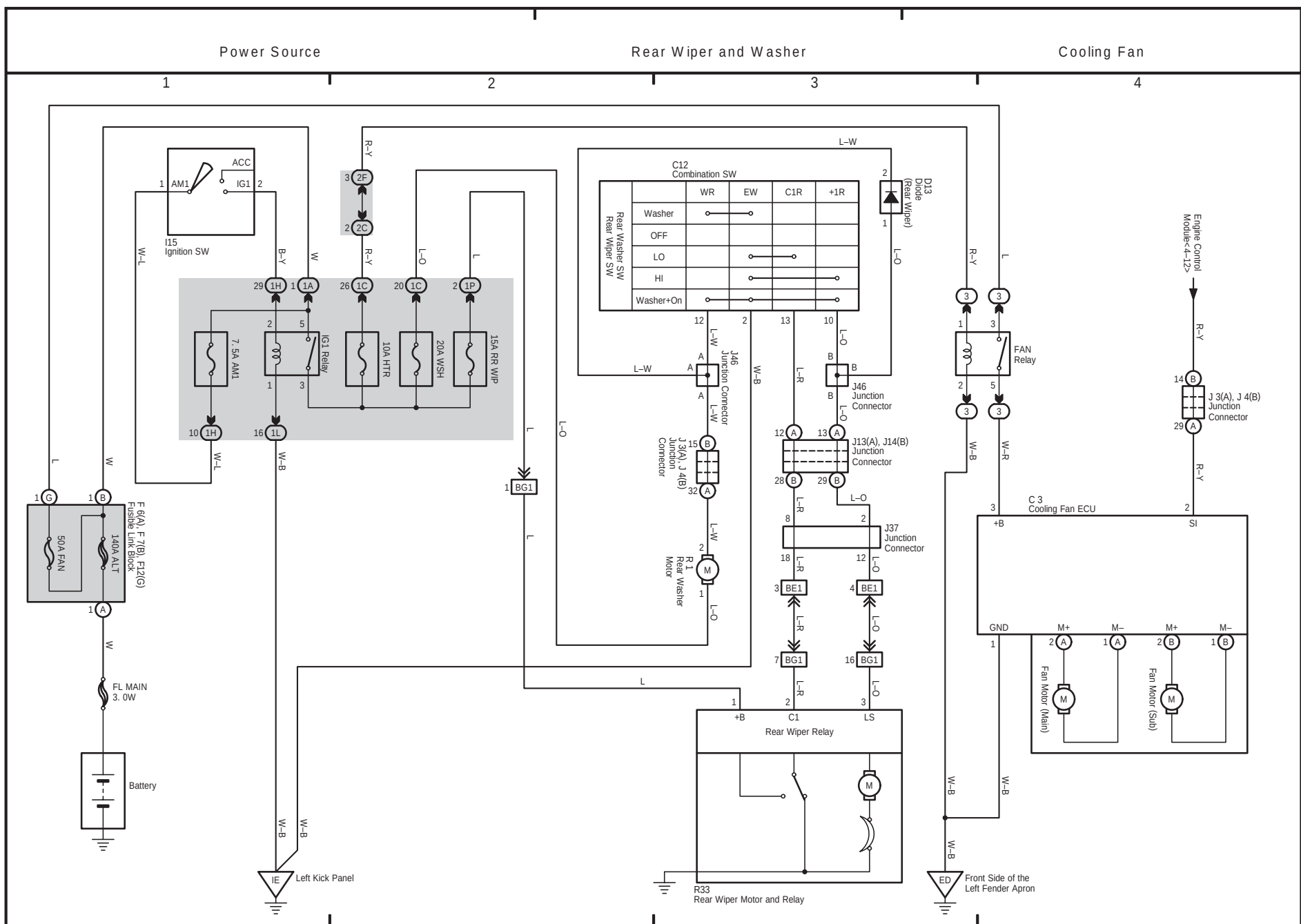


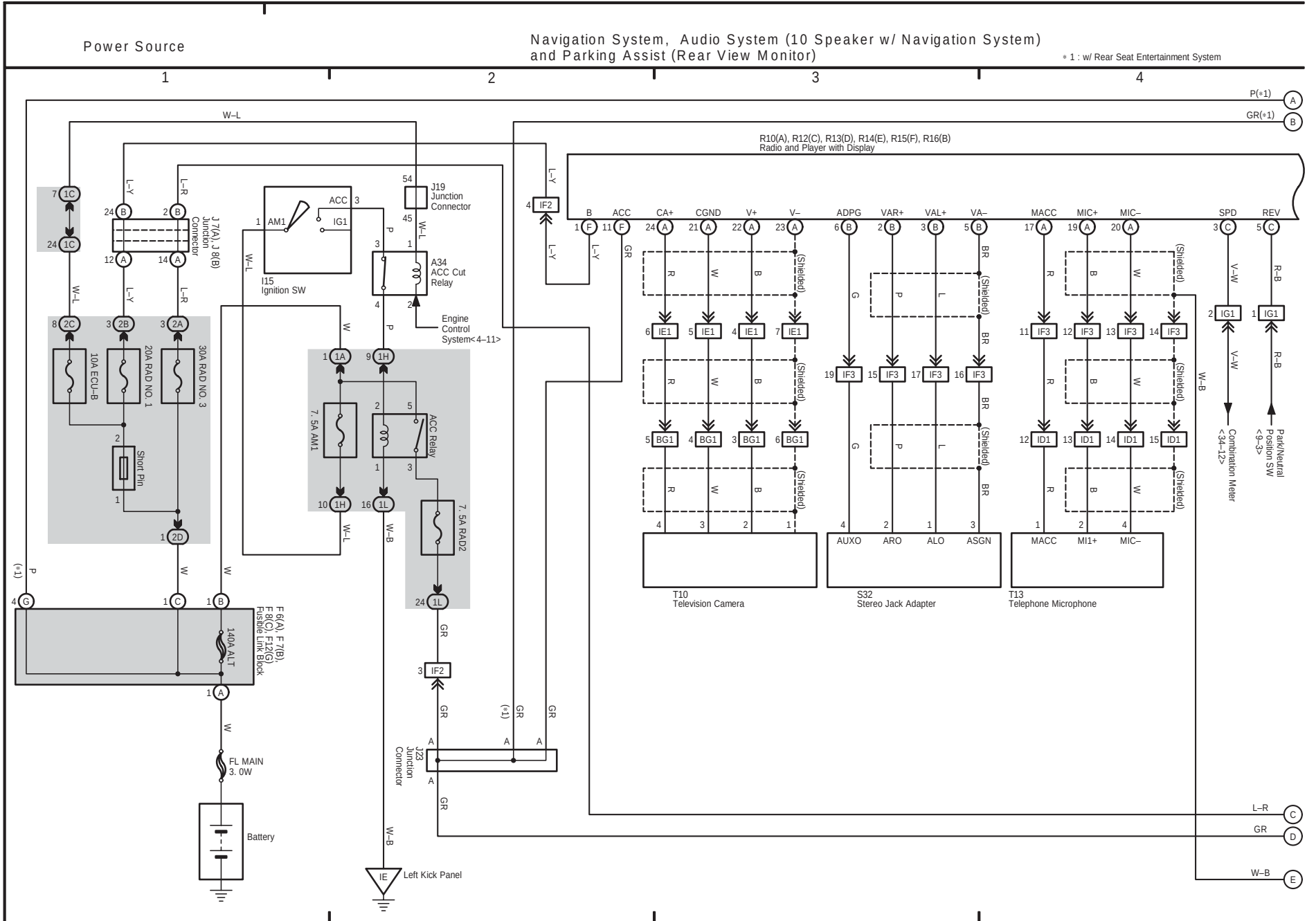
27 SIENNA





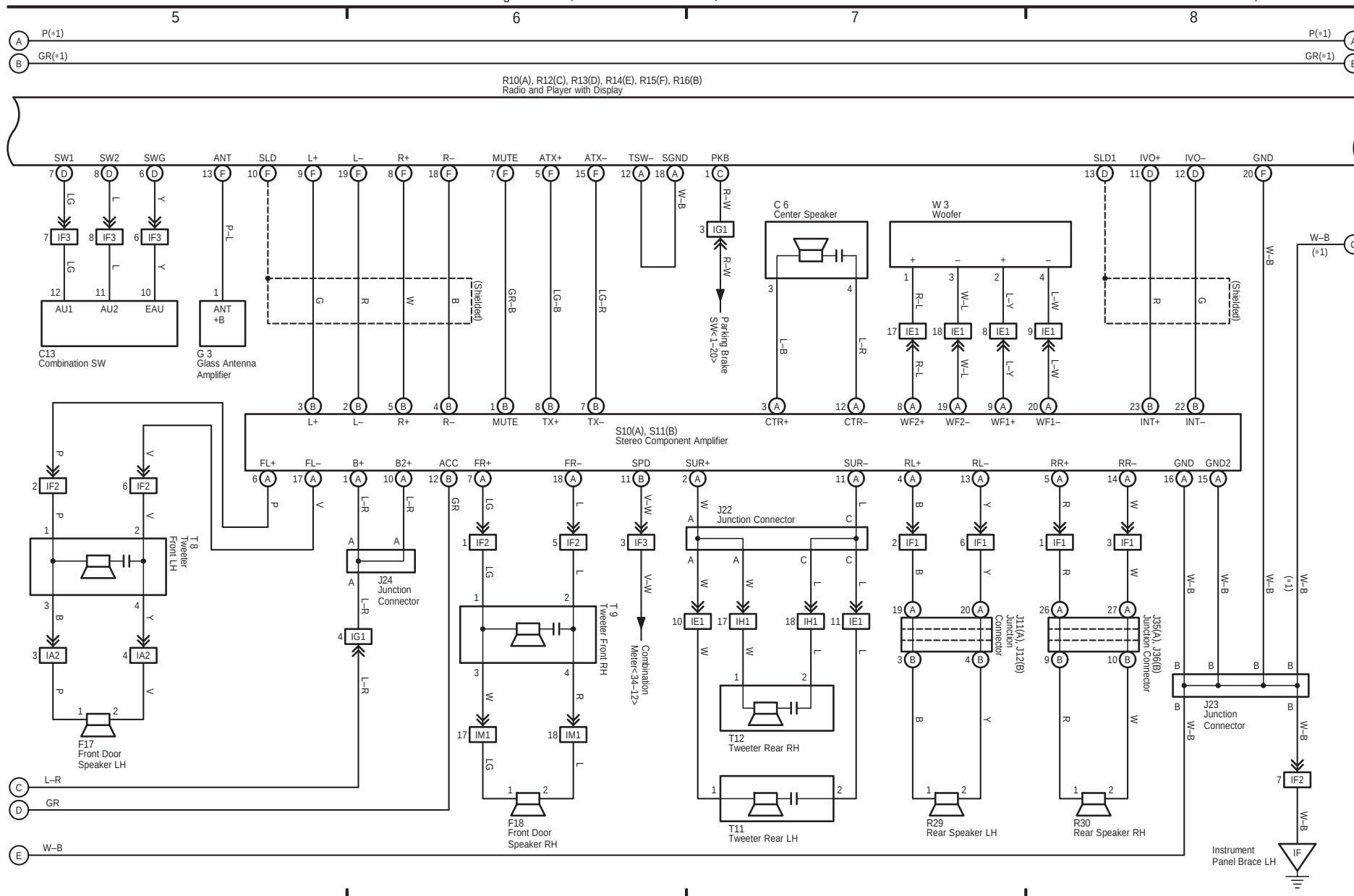
29 SIENNA





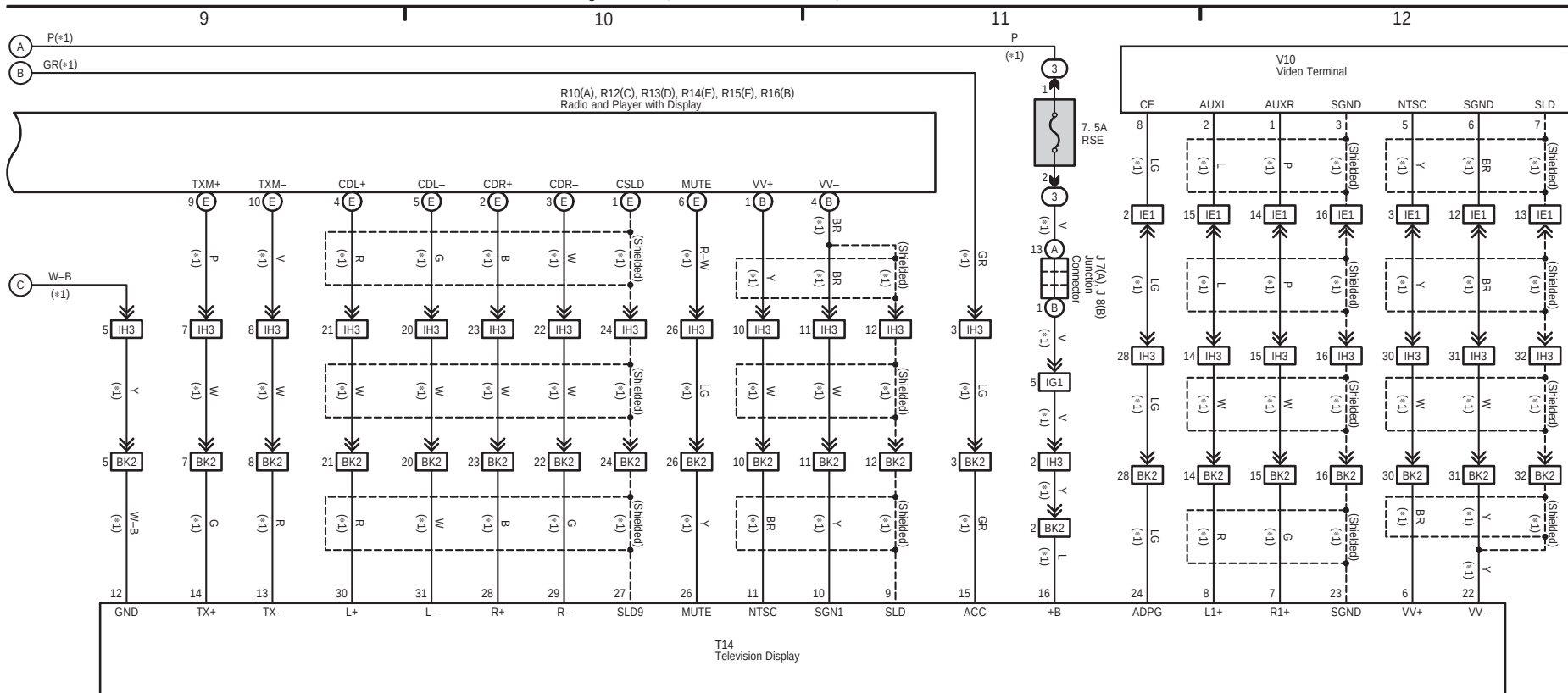
Navigation System, Audio System (10 Speaker w/ Navigation System)
and Parking Assist (Rear View Monitor)

* 1 : w/ Rear Seat Entertainment System



Navigation System, Audio System (10 Speaker w/ Navigation System) and Parking Assist (Rear View Monitor)

* 1 : w/ Rear Seat Entertainment System



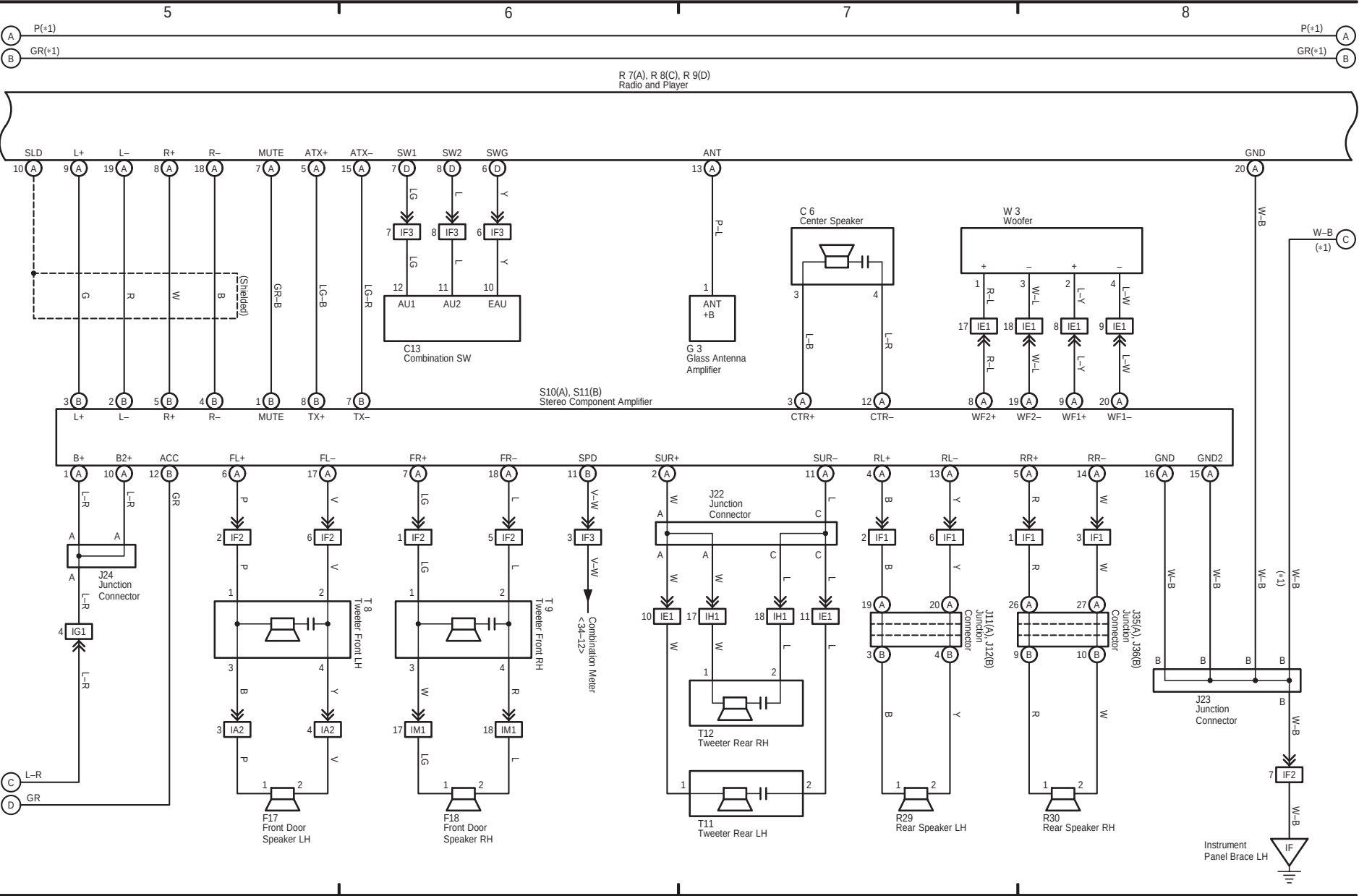
Power Source

* 1 : w/ Rear Seat Entertainment



Audio System (10 Speaker w/o Navigation System)

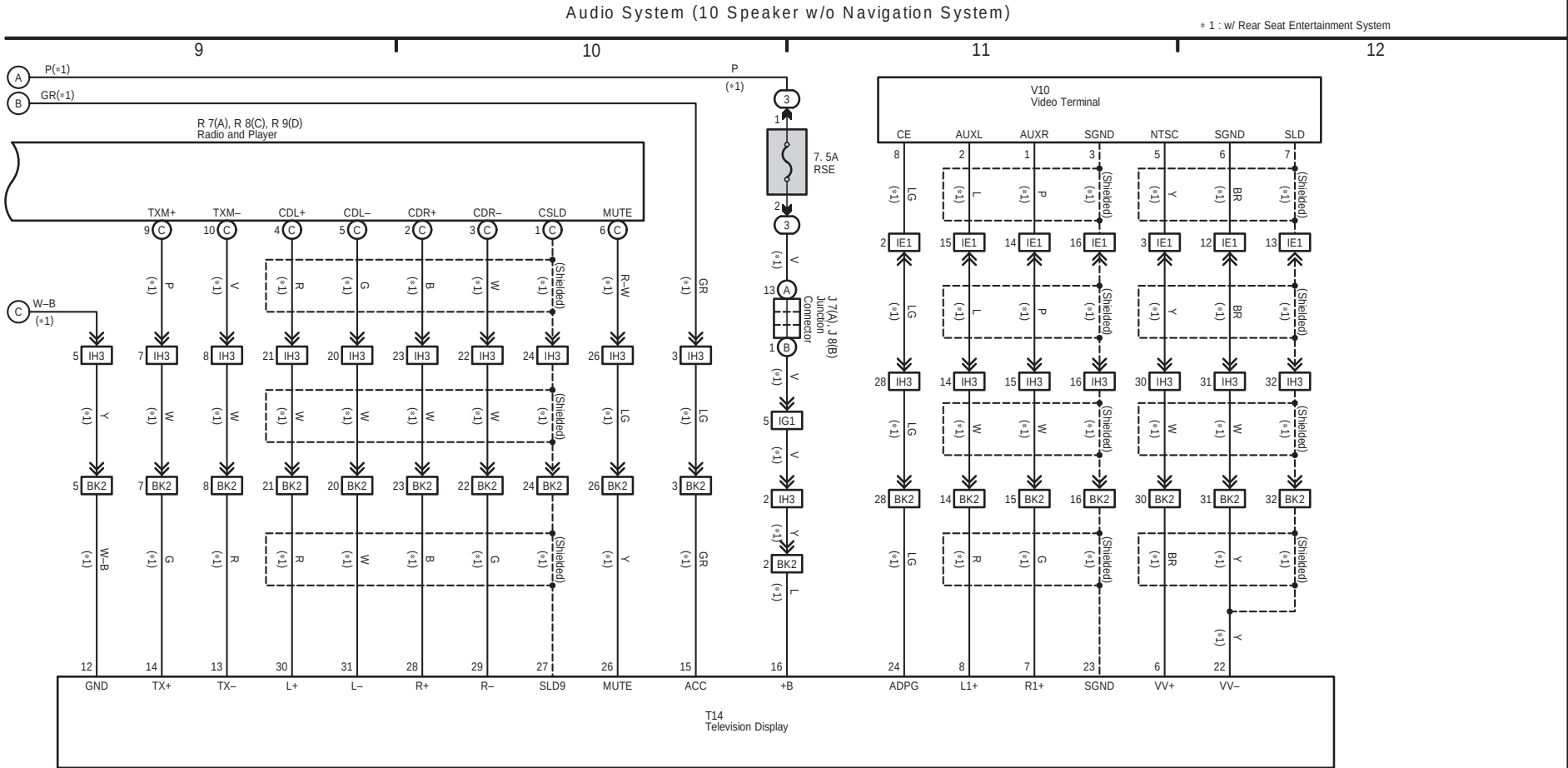
* 1 : w/ Rear Seat Entertainment System



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31 SIENNA (Cont' d)

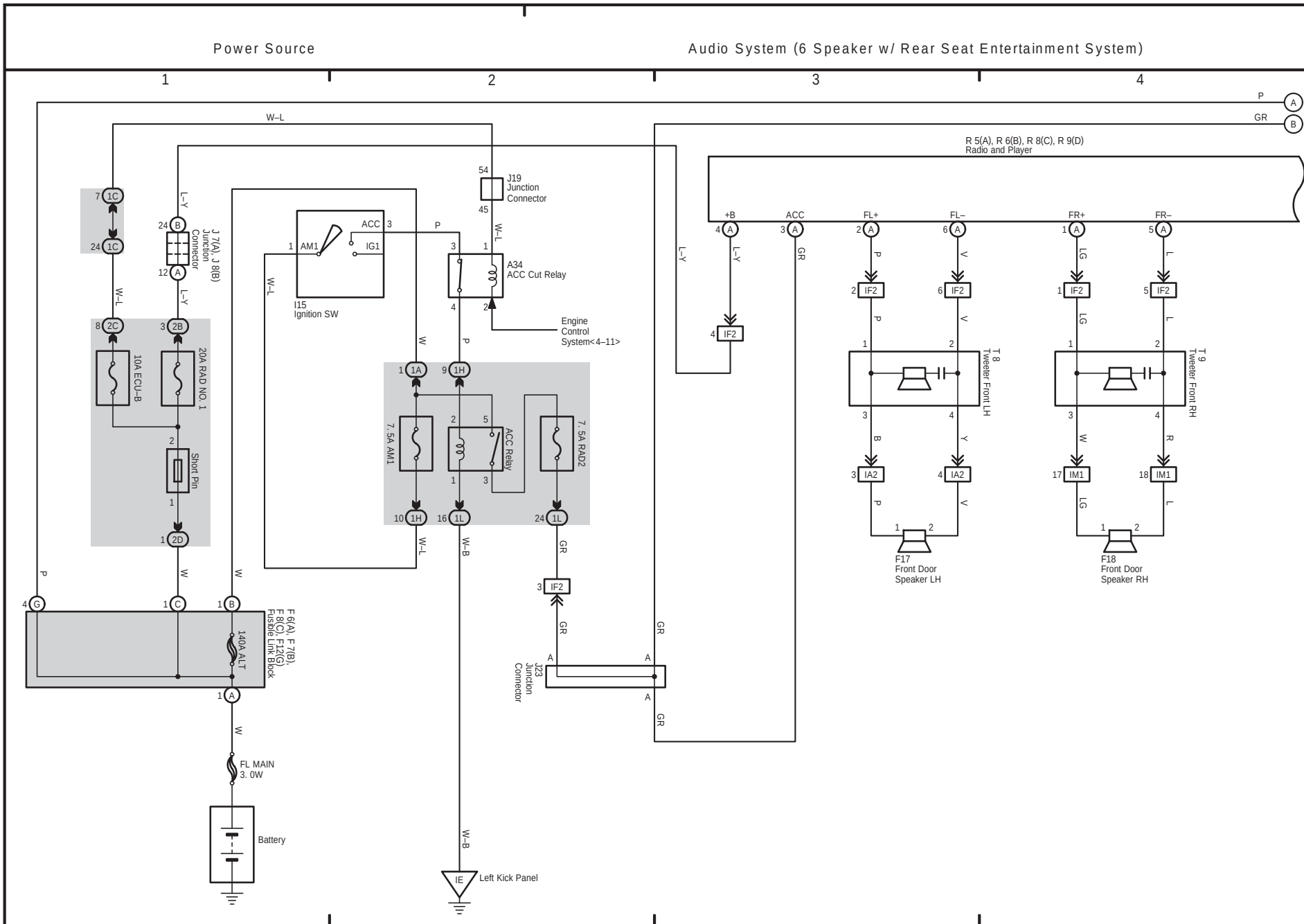


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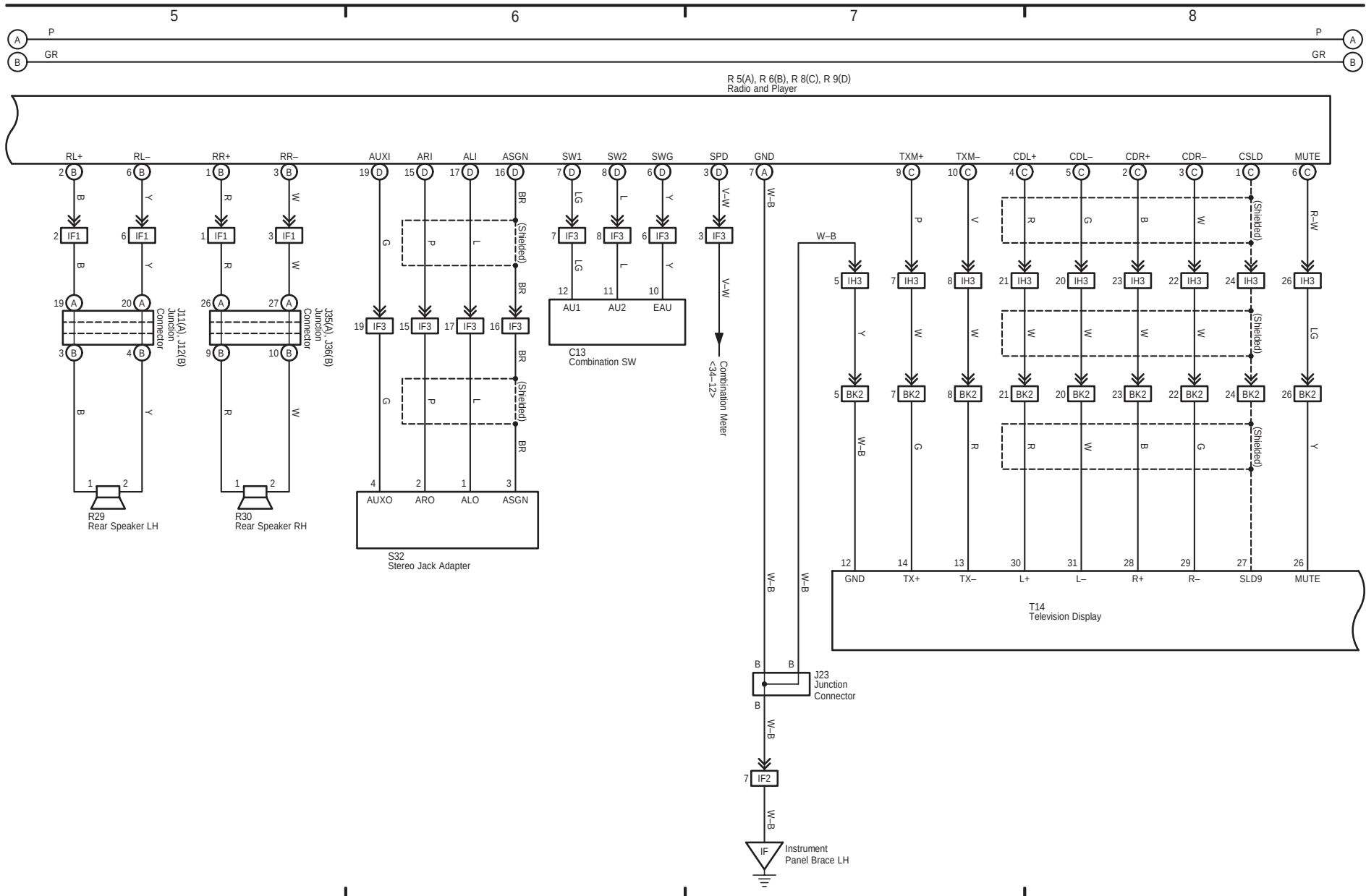
32 SIENNA

516

SIENNA (EM0530U)

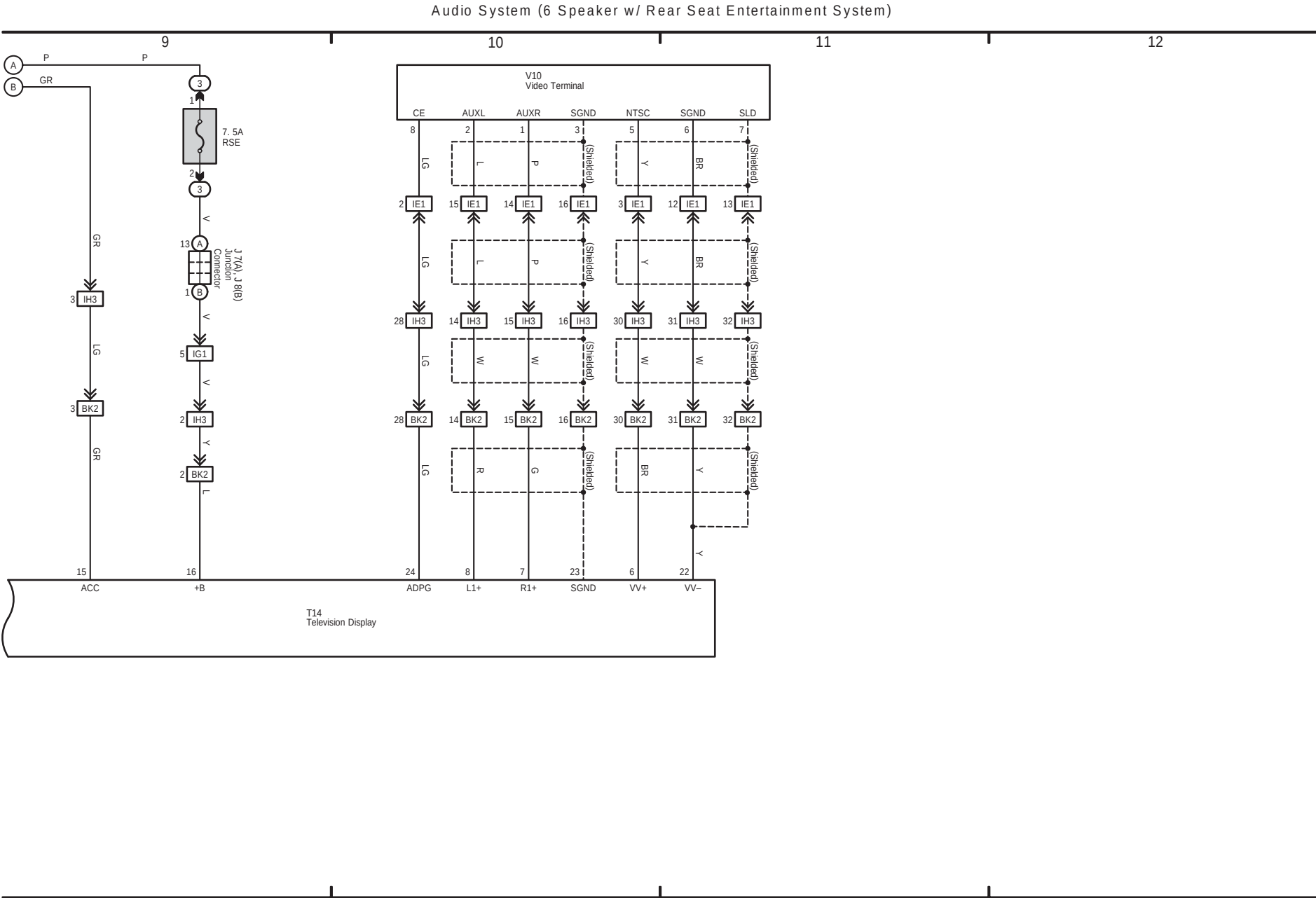


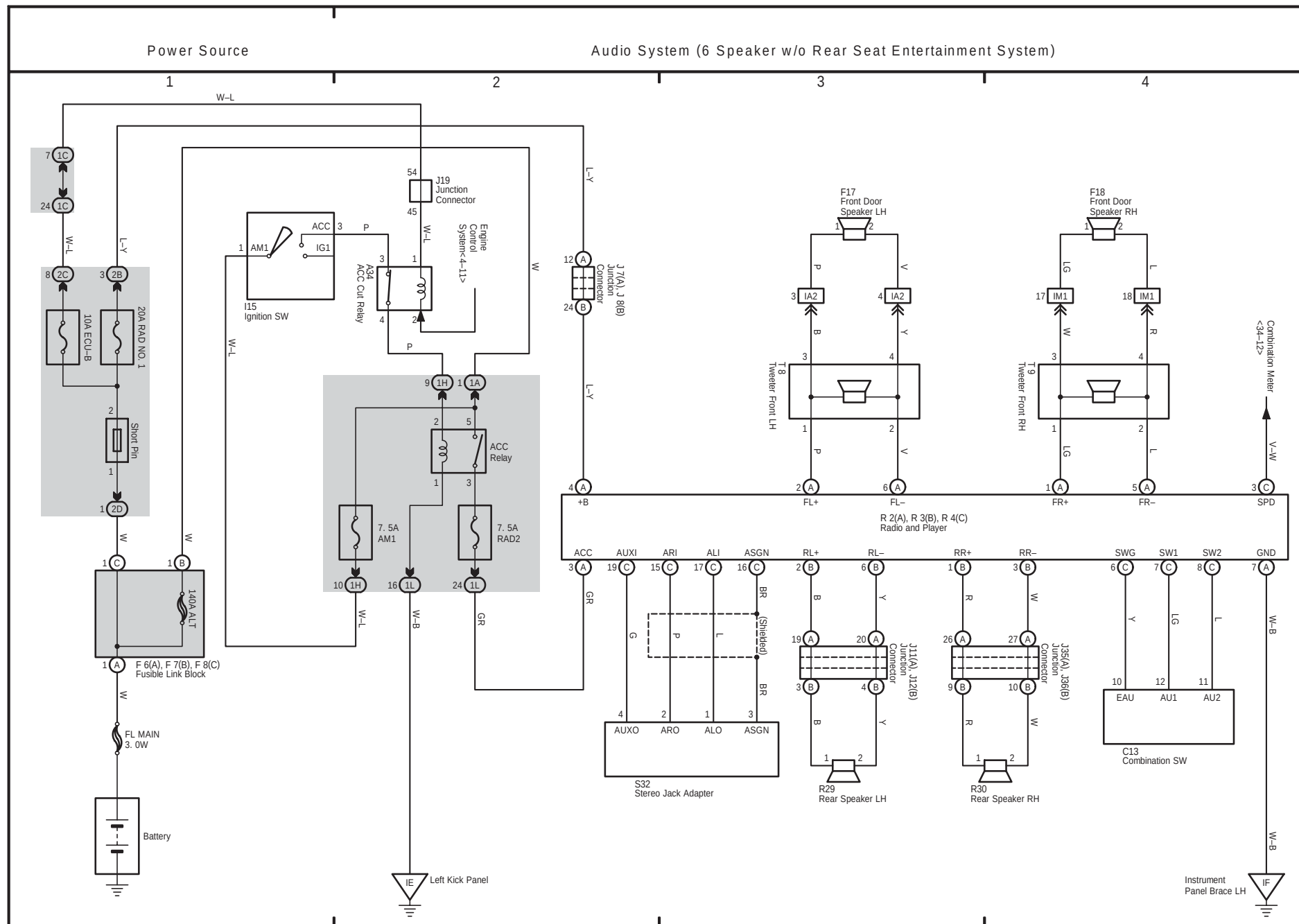
Audio System (6 Speaker w/ Rear Seat Entertainment System)

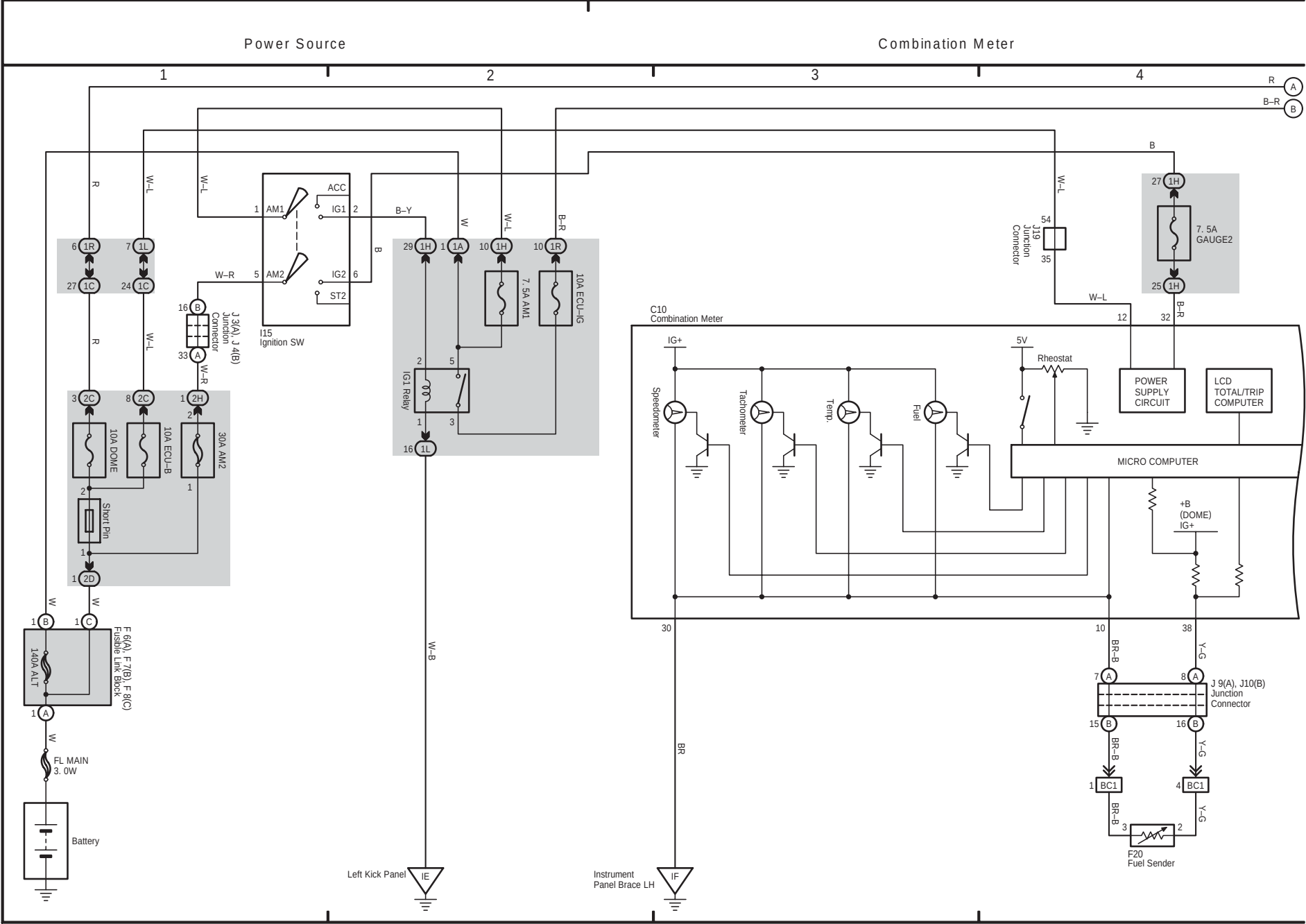


SIENNA (EM0530U)

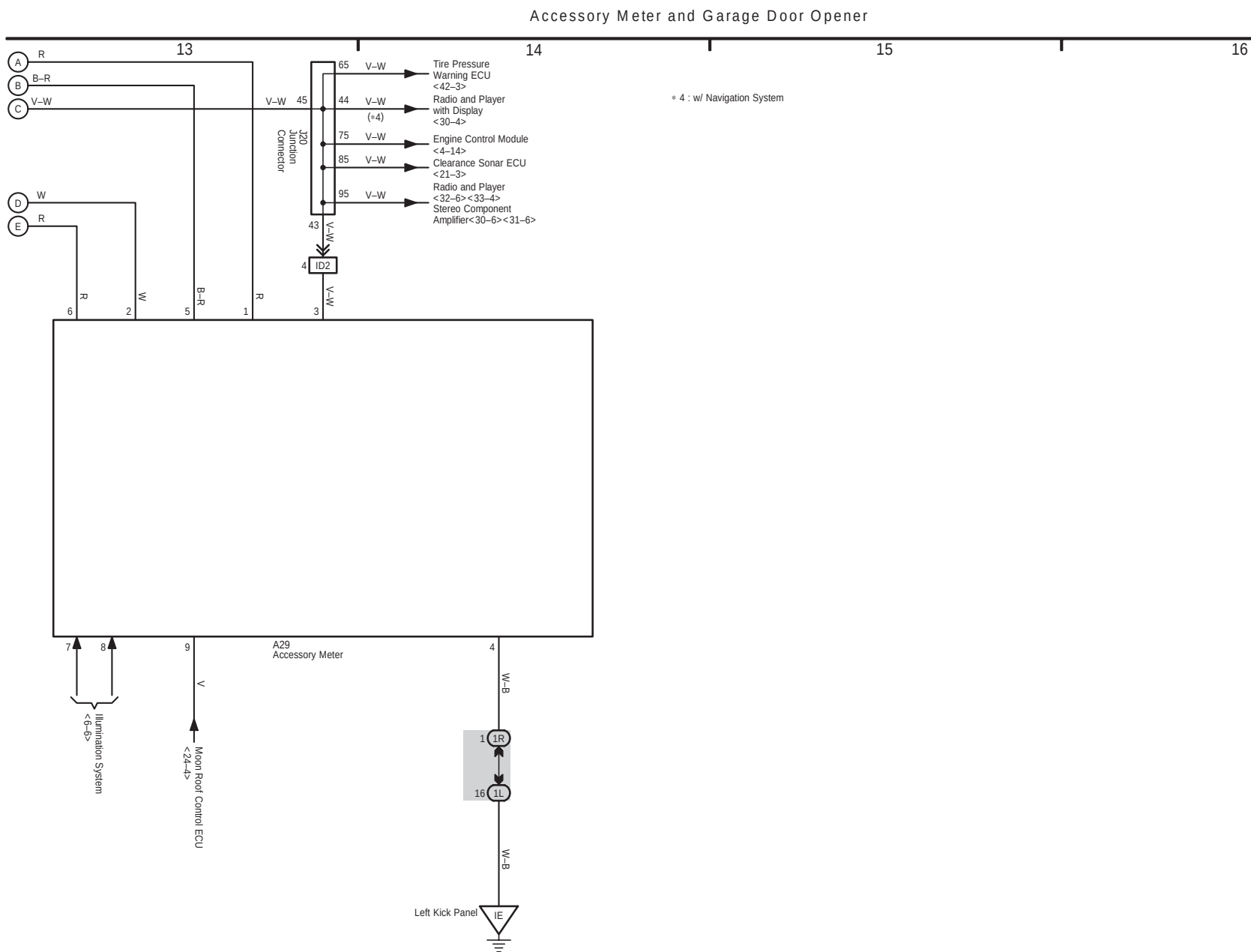
32 SIENNA (Cont' d)



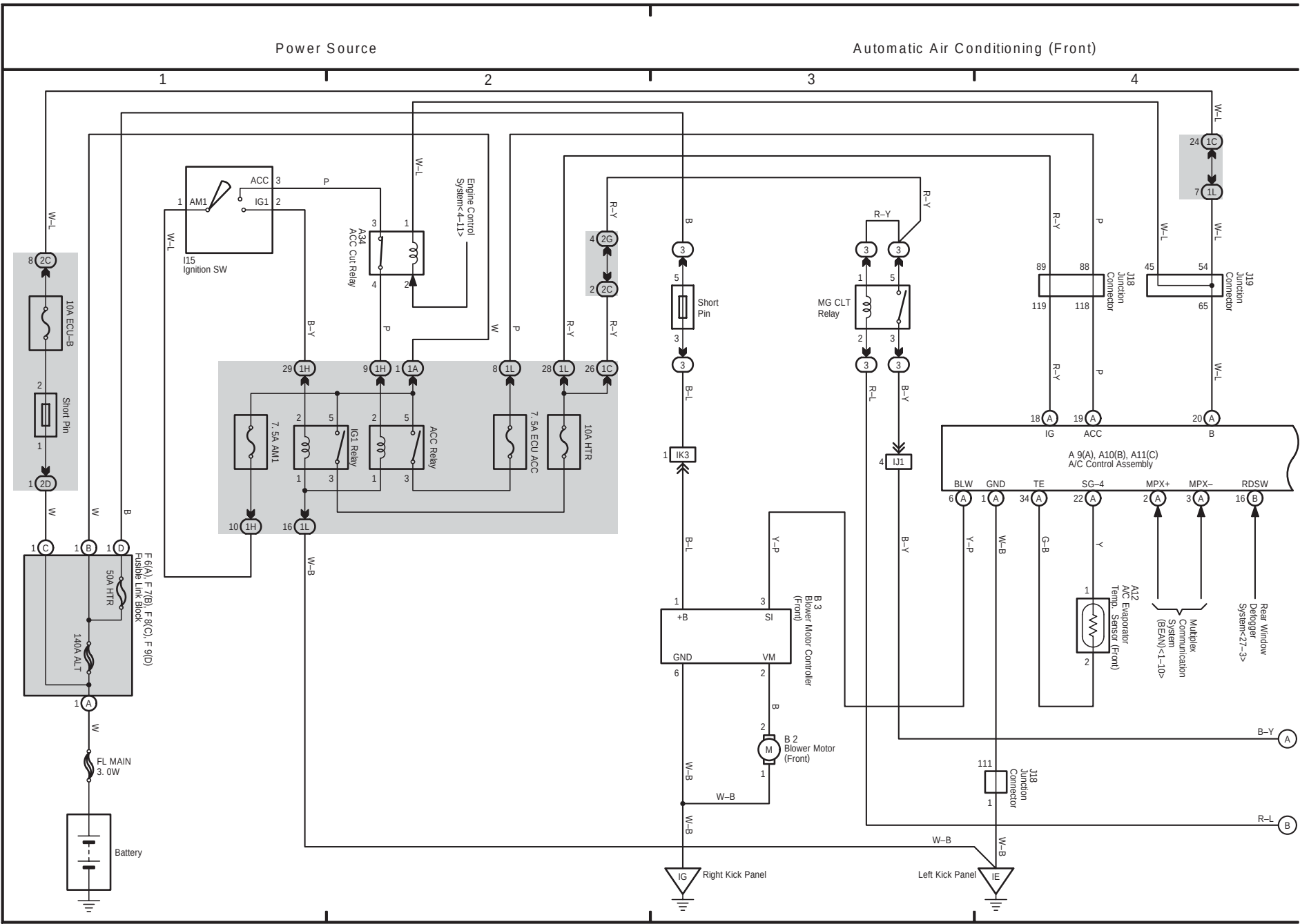




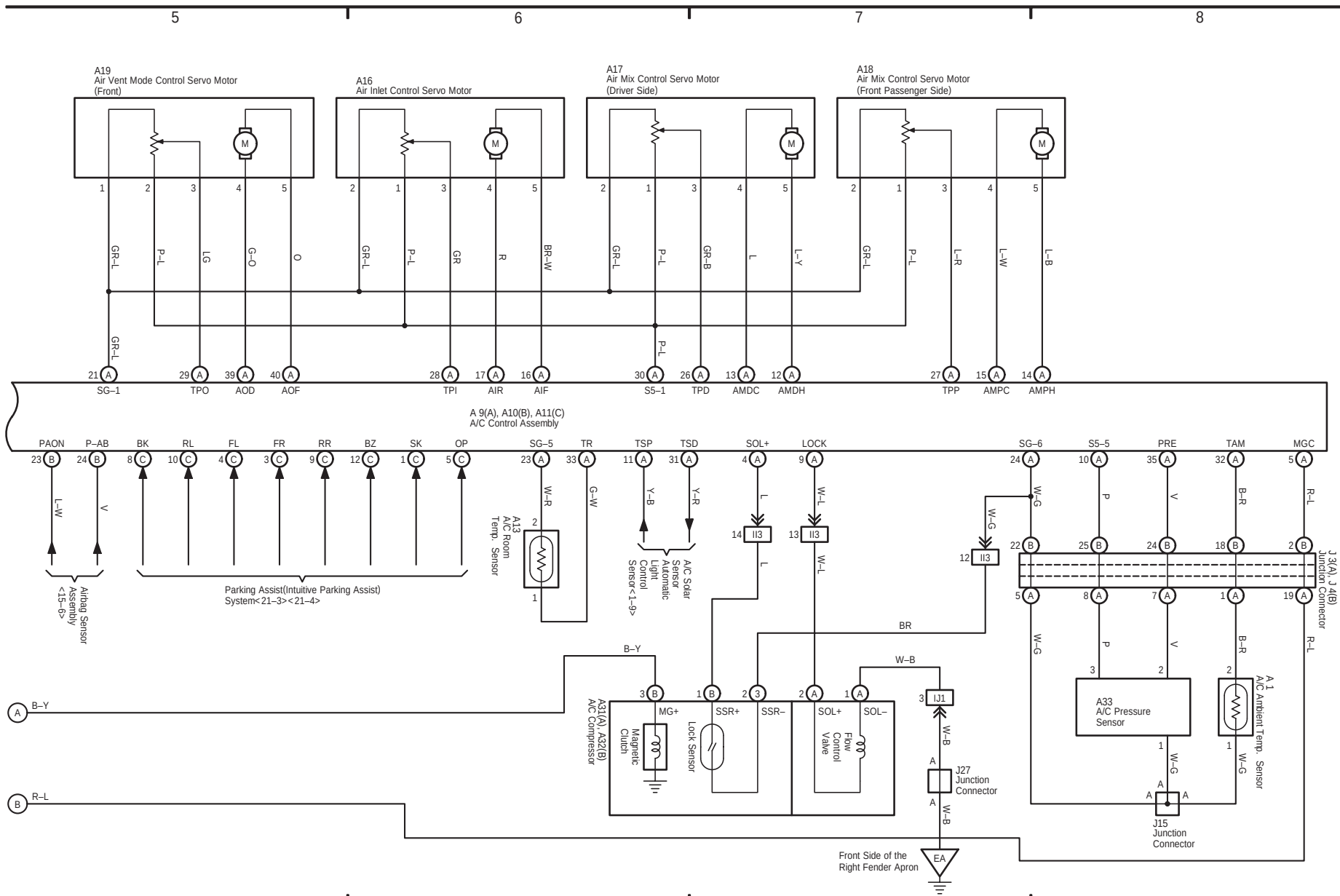


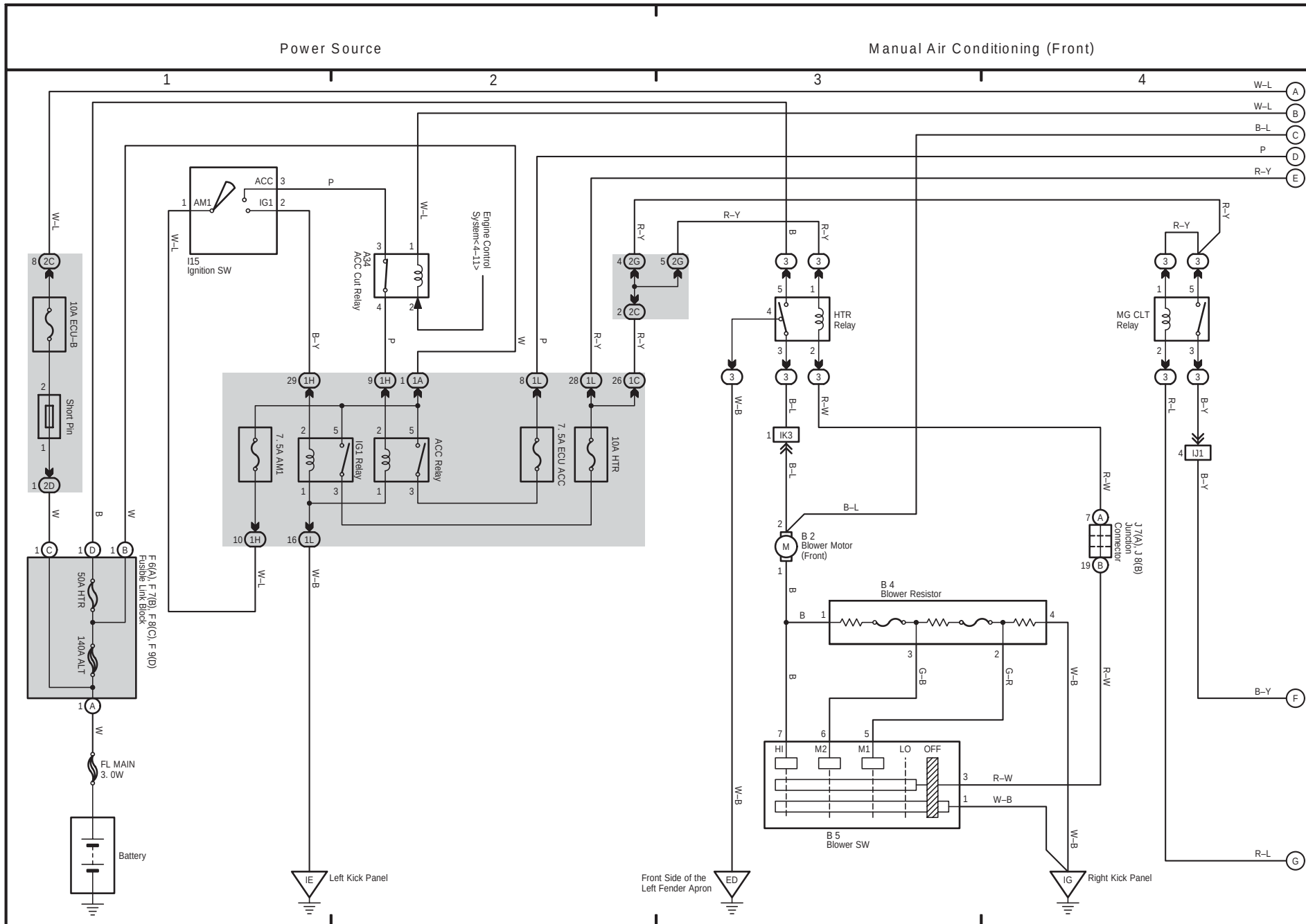


SIENNA (EM0530U)

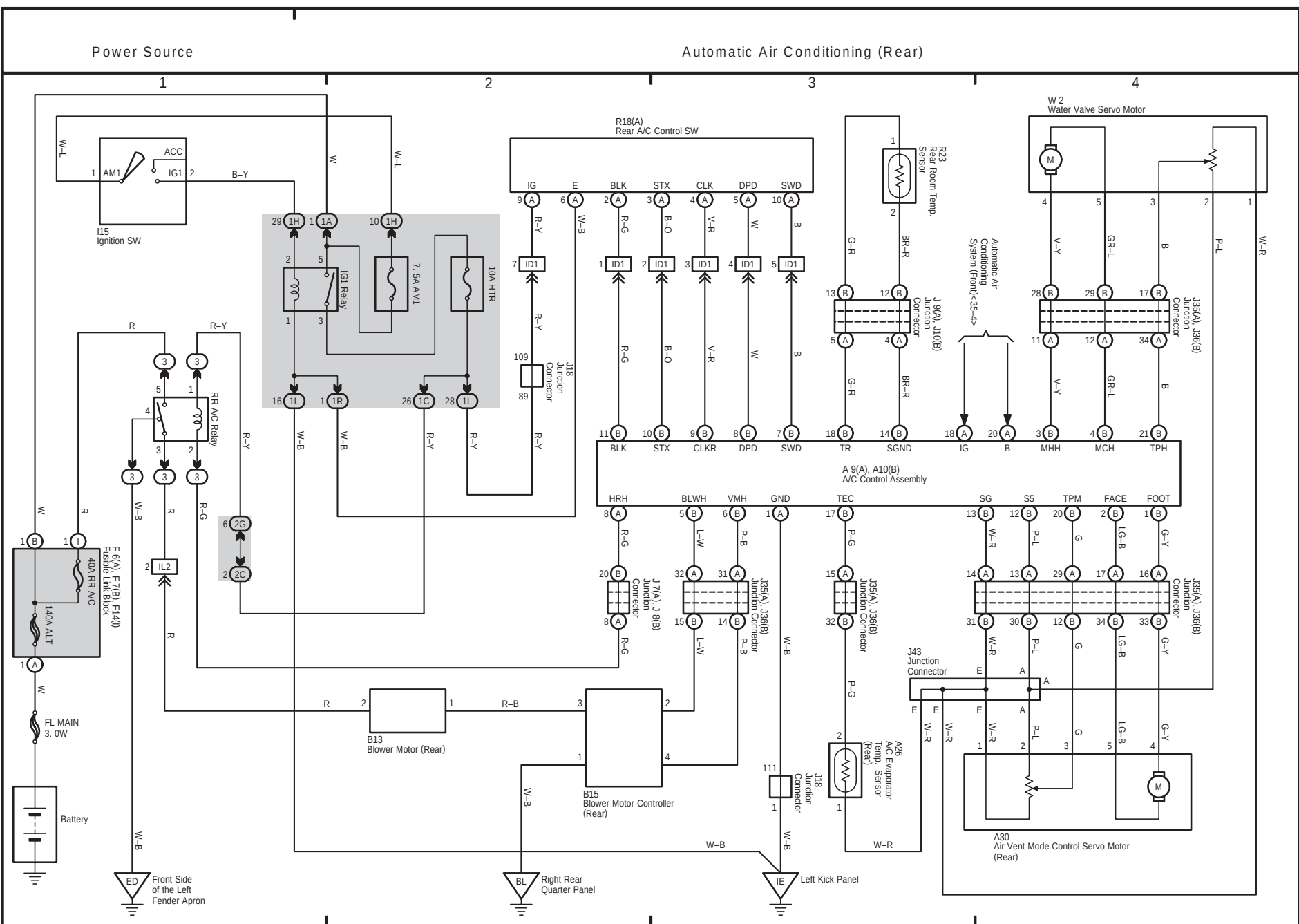


Automatic Air Conditioning (Front)





[illegible]





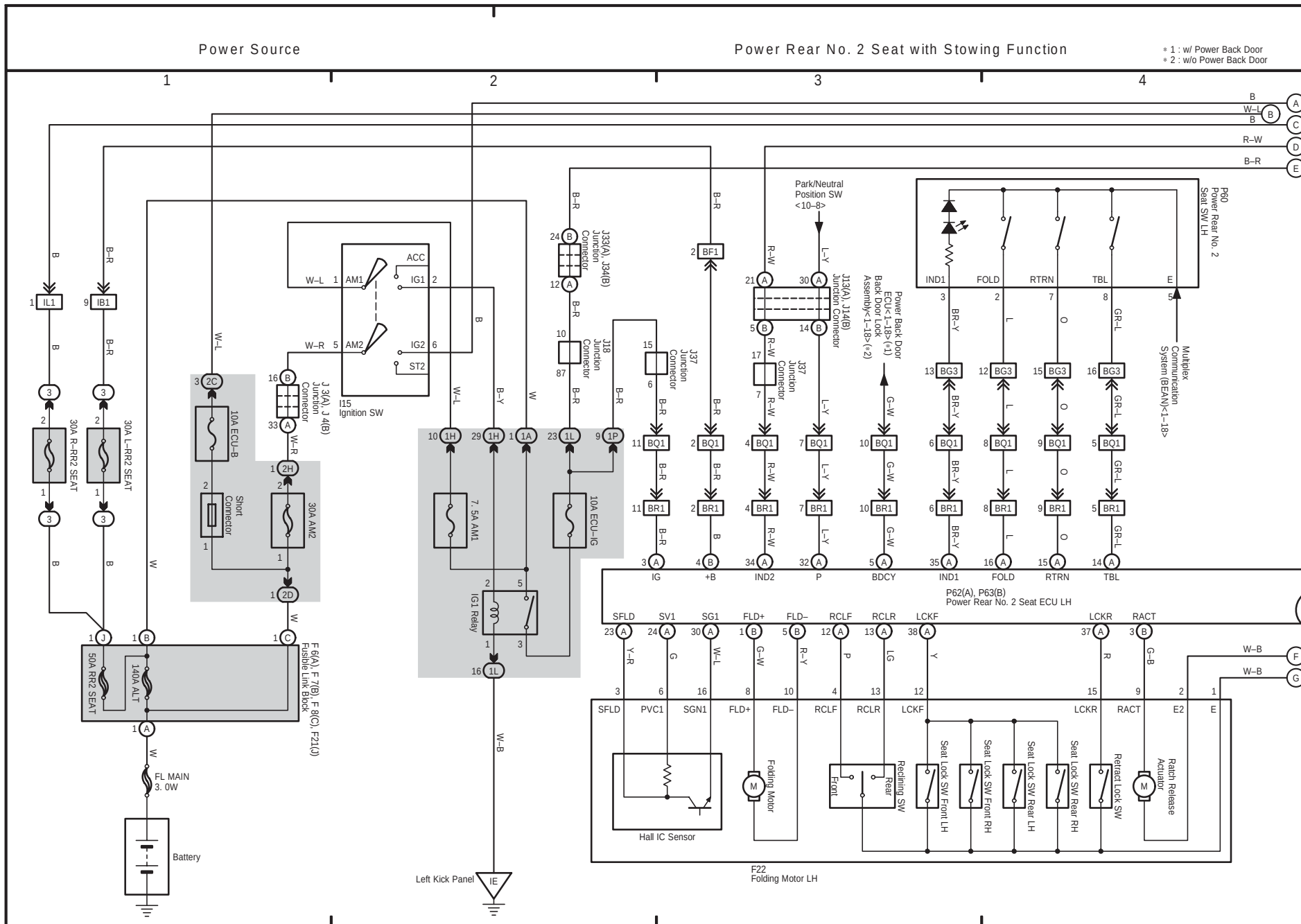
The diagram is divided into two main sections: **Power Source** (left) and **Power Seat (Driver's Seat w/ Driving Position Memory)** (right).

Power Source Section:

- Battery:** Connected to the main power line.
- FL MAIN 3.0W:** A fuse in the main power line.
- Fusible Link Block:** Contains fuses F 6(A), F 7(B), and F 8(C).
- 140A ALT:** An alternator component.
- 10A ECU-B:** A fuse for the ECU.
- Short Pin:** A component in the power line.
- 10A ECU-IG:** A fuse for the ECU ignition.
- IG1 Relay:** A relay in the ignition circuit.
- 7.5A AM1:** A fuse for the AM1 circuit.
- 30A P/SEAT:** A fuse for the power seat.
- 10A ECU-IG:** Another fuse for the ECU ignition.
- W-L, W, W-B, Y, V, B-R, B-Y:** Various wire colors and labels throughout the circuit.
- J19 Junction Connector:** A connector for the main power line.
- I15 Ignition SW:** An ignition switch component.
- J18 Junction Connector:** A connector for the power seat circuit.

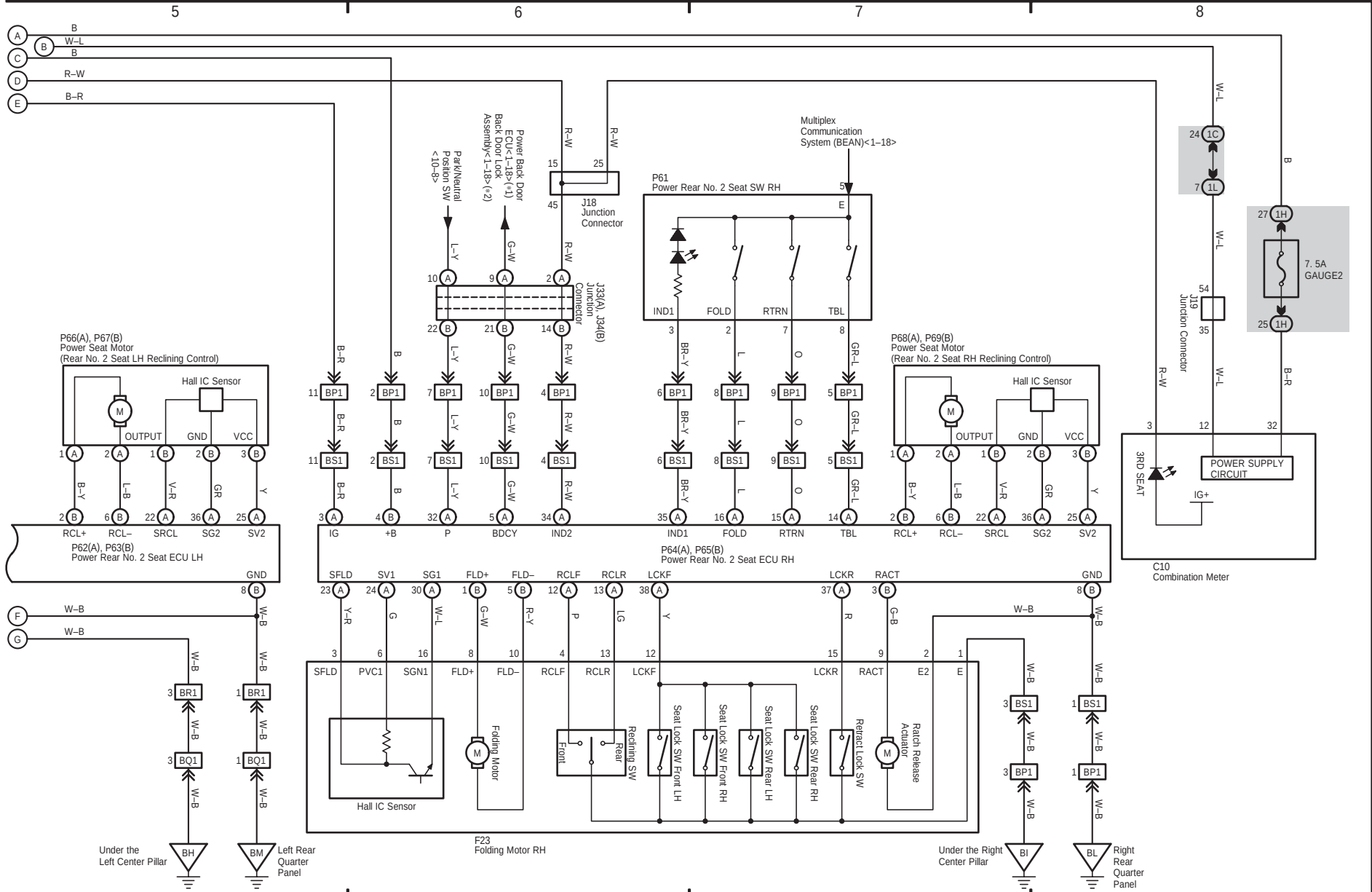
Power Seat Section:

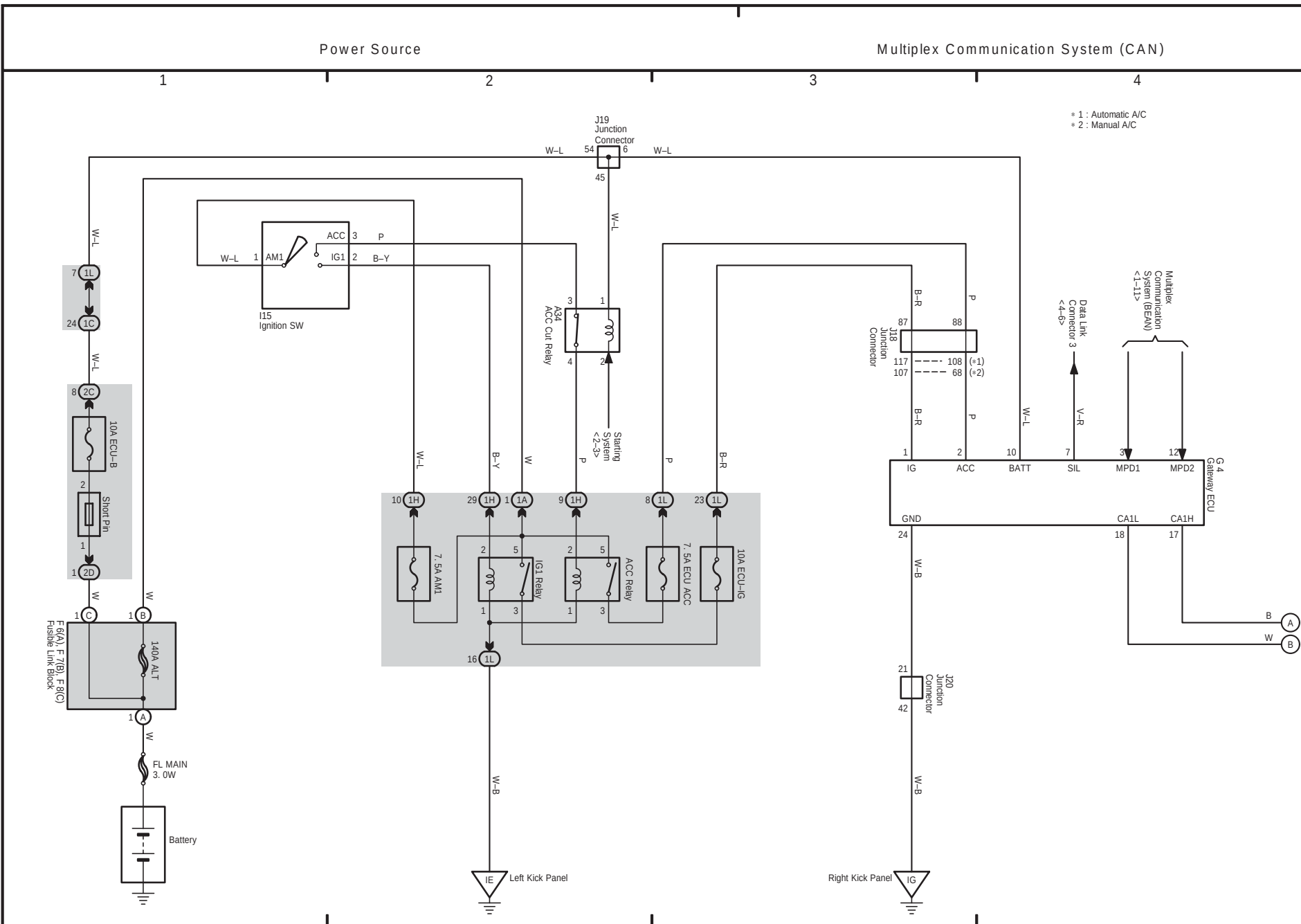
- MPX1:** A multiplex communication system (BEAN<1-11>).
- P58(A), P59(B):** Position Control ECU and SW.
- P54:** Power Seat Motor (Driver's Seat Side Control).
- P51:** Power Seat Motor (Driver's Seat From Vertical Control).
- P47:** Power Seat Motor (Driver's Seat Reclining Control).
- P52:** Power Seat Motor (Driver's Seat Lifter Control).
- P49:** Power Seat Control SW (Driver's Seat Lumbar Support Control).
- P53:** Power Seat Motor (Driver's Seat Lumbar Support Control).
- J44(A), J45(B):** Junction connectors for the power seat circuit.
- W-L, W, W-B, Y, V, B-R, B-Y:** Various wire colors and labels throughout the circuit.
- J13(A), J14(B):** Junction connectors for the power seat circuit.
- J37 Junction Connector:** A connector for the power seat circuit.
- J44(A), J45(B):** Junction connectors for the power seat circuit.



Power Rear No. 2 Seat with Stowing Function

* 1 : w/ Power Back Door
* 2 : w/o Power Back Door





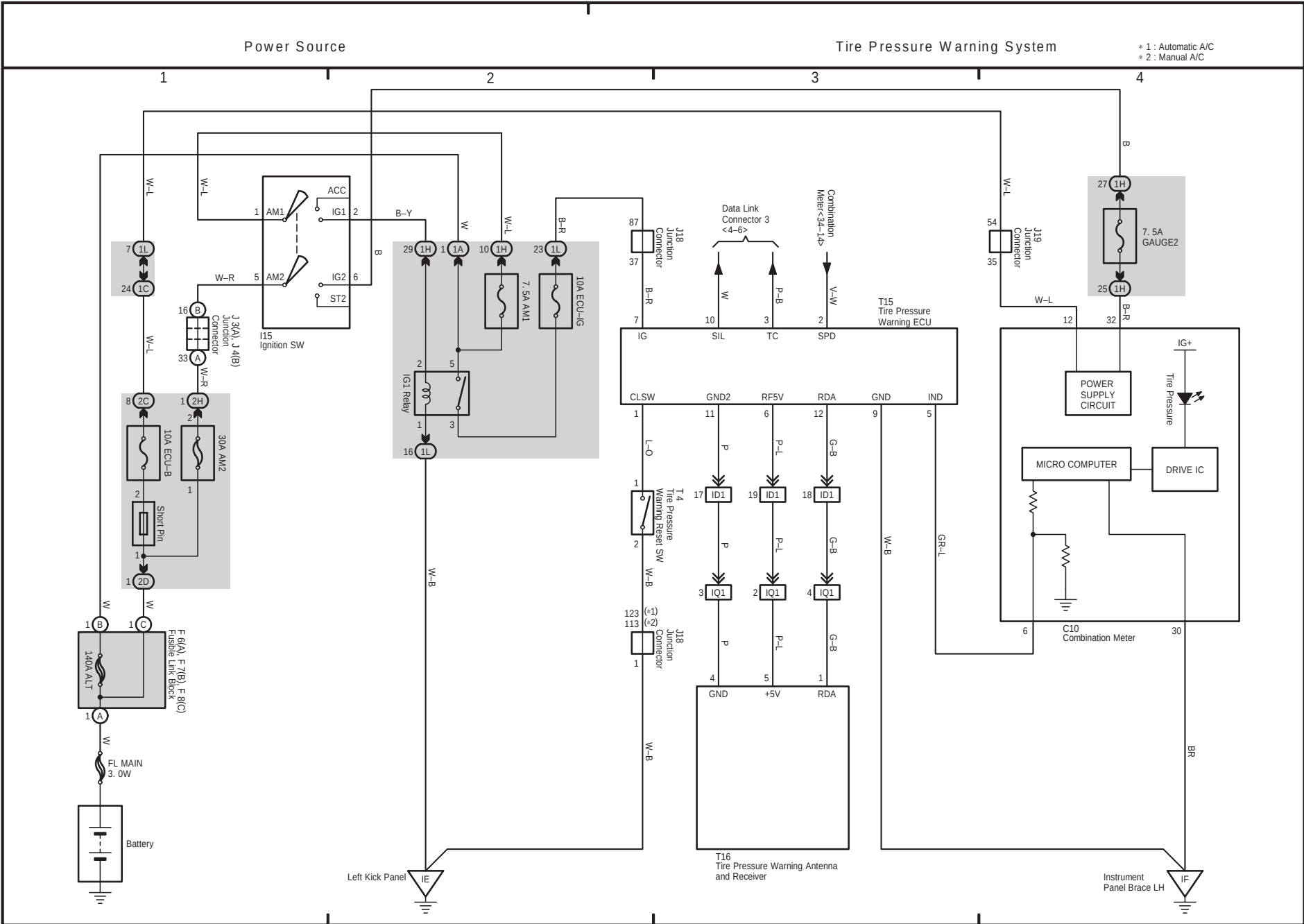


M OVERALL ELECTRICAL WIRING DIAGRAM

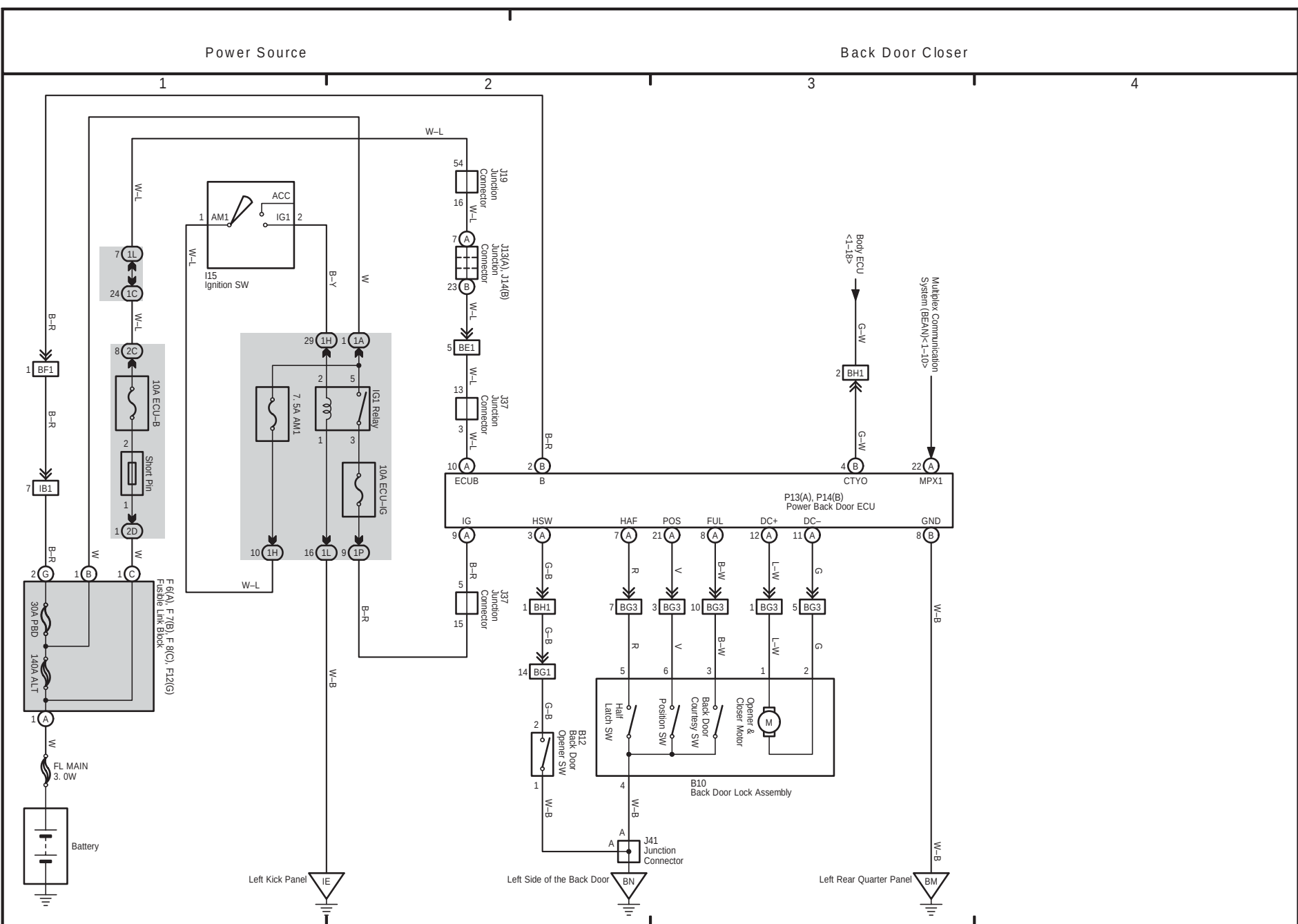
42 SIENNA

536

SIENNA (EM0530U)

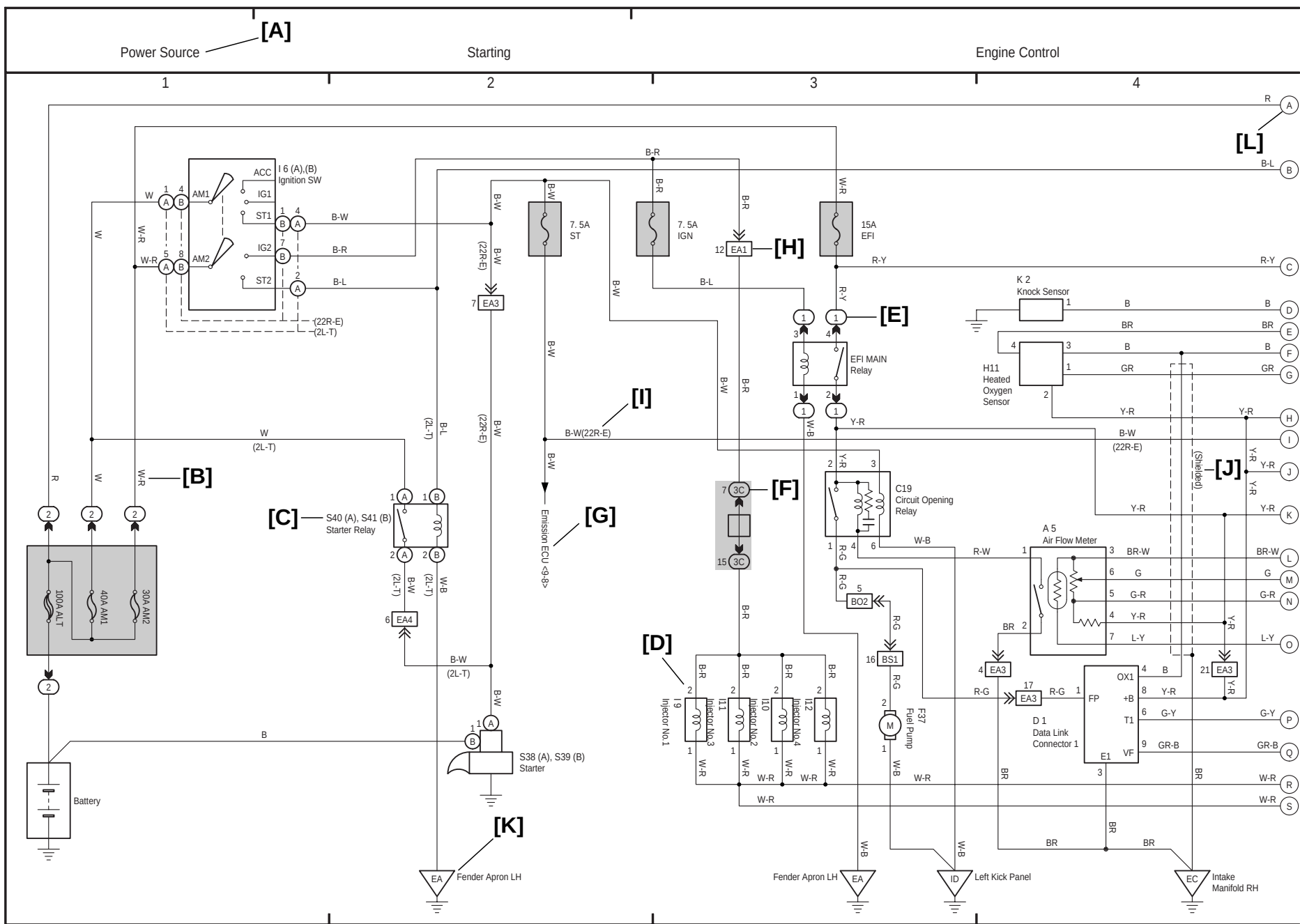






* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the wiring diagram section.

HOW TO READ THIS SECTION



[A] : System Title

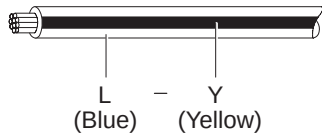
[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B = Black W = White BR = Brown
L = Blue V = Violet SB = Sky Blue
R = Red G = Green LG = Light Green
P = Pink Y = Yellow GR = Gray
O = Orange

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L – Y

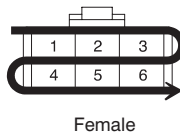


[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

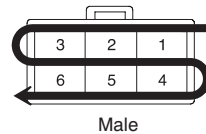
[D] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



Female



Male

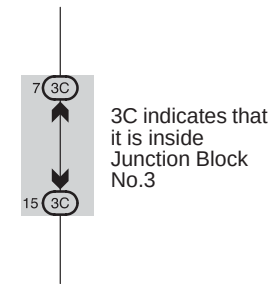
The numbering system for the overall wiring diagram is the same as above

[E] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

Example : ① Indicates Relay Block No.1

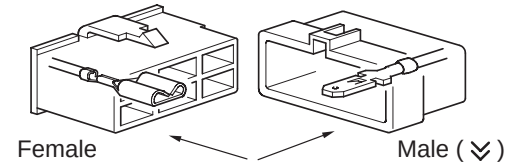
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[G] : Indicates related system.

[H] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (↗). Outside numerals are pin numbers.



[I] : () is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[J] : Indicates a shielded cable.



[K] : Indicates and located on ground point.

[L] : The same code occurring on the next page indicates that the wire harness is continuous.

SYSTEM INDEX

SYSTEMS	LOCATION	SYSTEMS	LOCATION
ABS (w/ VSC)	13-3	Horn	22-2
ABS (w/o VSC)	14-2	Ignition	3-2
Accessory Meter	34-13	Illumination	6-2
Audio System (10 Speaker w/ Navigation System)	30-2	Manual Air Conditioning (Front)	36-3
Audio System (10 Speaker w/o Navigation System)	31-2	Manual Air Conditioning (Rear)	38-2
Audio System (6 Speaker w/ Rear Seat Entertainment System) ..	32-2	Mirror Heater	27-4
Audio System (6 Speaker w/o Rear Seat Entertainment System) ..	33-2	Moon Roof	24-4
Automatic Air Conditioning (Front)	35-3	Multiplex Communication System (BEAN)	1-2
Automatic Air Conditioning (Rear)	37-2	* Automatic Light Control	
Automatic Glare-Resistant EC Mirror with Compass	24-2	* Back Door Opener (w/o Power Back Door)	
Back Door Closer	44-2	* Door Lock Control	
Back-Up Light	9-3	* Fog Light	
Charging	2-5	* Headlight	
Combination Meter	34-2	* Interior Light	
Cooling Fan	29-4	* Key Reminder	
Cruise Control	12-2	* Light Auto Turn Off System	
Dynamic Laser Cruise Control	11-3	* Remote Control Mirror (w/ Driving Position Memory)	
Electronically Controlled Transmission and A/T Indicator	10-3	* Seat Belt Warning	
Engine Control	4-3	* Theft Deterrent	
Engine Immobiliser System	4-23	* Wireless Door Lock Control	
Front Window Deicer	27-2	Multiplex Communication System (CAN)	41-3
Front Wiper and Washer	28-2	Navigation System	30-2
Garage Door Opener	34-13	Parking Assist (Intuitive Parking Assist)	21-2
Headlight Beam Level Control	22-3	Parking Assist (Rear View Monitor)	30-2
		Power Back Door	19-2
		Power Outlet (115V)	26-2
		Power Outlet (12V Front)	25-4
		Power Outlet (12V Rear)	26-4
		Power Rear No.2 Seat with Stowing Function	40-2

SYSTEM INDEX

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Power Rear Quarter Window	20-2	Seat Heater	23-2
Power Seat (Driver's Seat w/ Driving Position Memory)	39-2	Shift Lock	9-4
Power Seat (Driver's Seat w/o Driving Position Memory)	20-3	Slide Door Closer	43-2
Power Seat (Front Passenger's Seat)	20-4	SRS	15-2
Power Slide Door (LH)	18-2	Starting	2-3
Power Slide Door (RH)	18-5	Stop Light	8-2
Power Source	1-43-1	Taillight	5-2
Power Window (w/ Jam Protection)	16-2	Tire Pressure Warning System	42-3
Power Window (w/o Jam Protection)	17-2	TRAC	13-3
Rear Window Defogger	27-3	Turn Signal and Hazard Warning Light	7-2
Rear Wiper and Washer	29-2	VSC	13-3
Remote Control Mirror (w/o Driving Position Memory)	25-2		