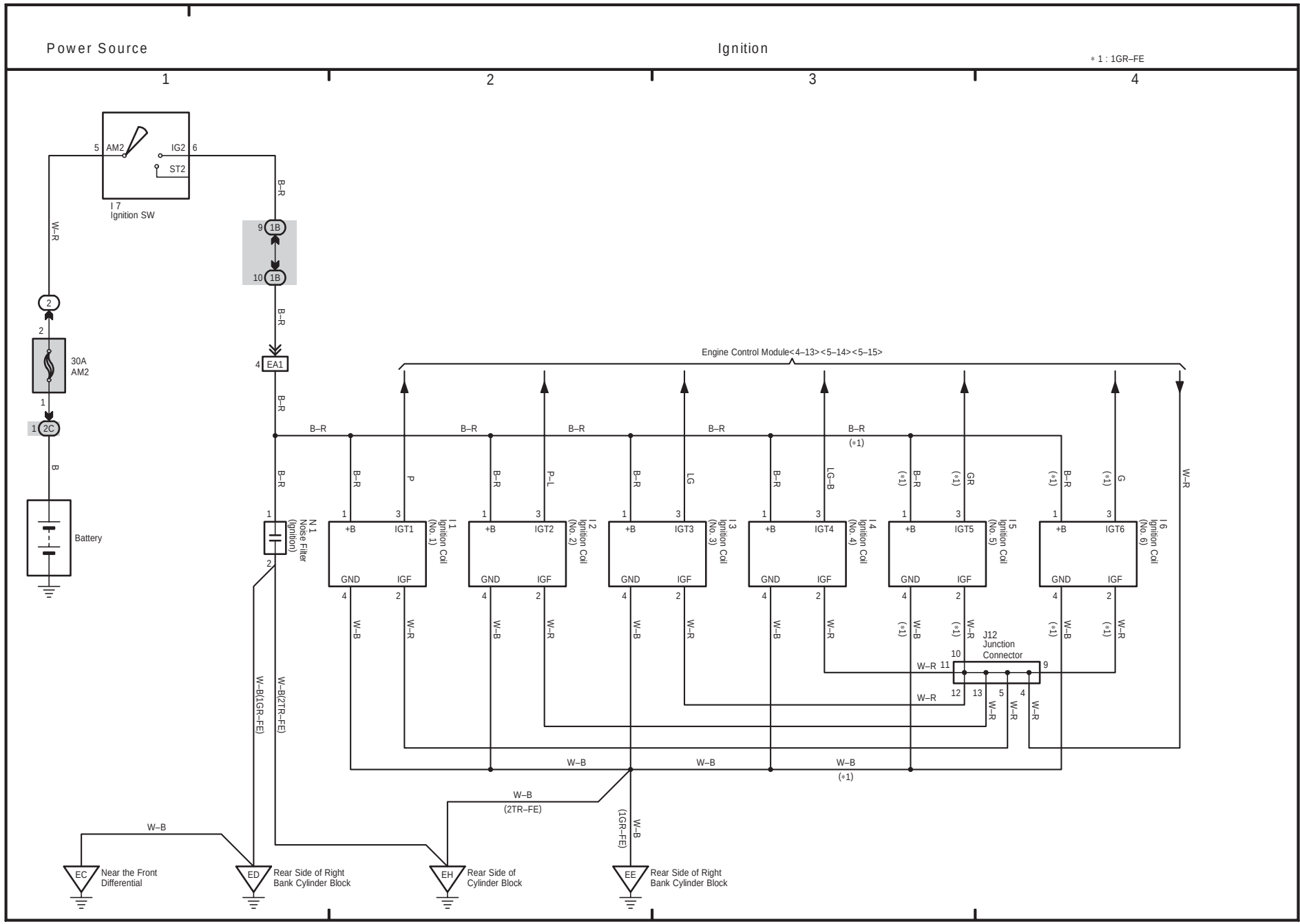


TOYOTA TACOMA (EM01D0U)



2 TOYOTA TACOMA

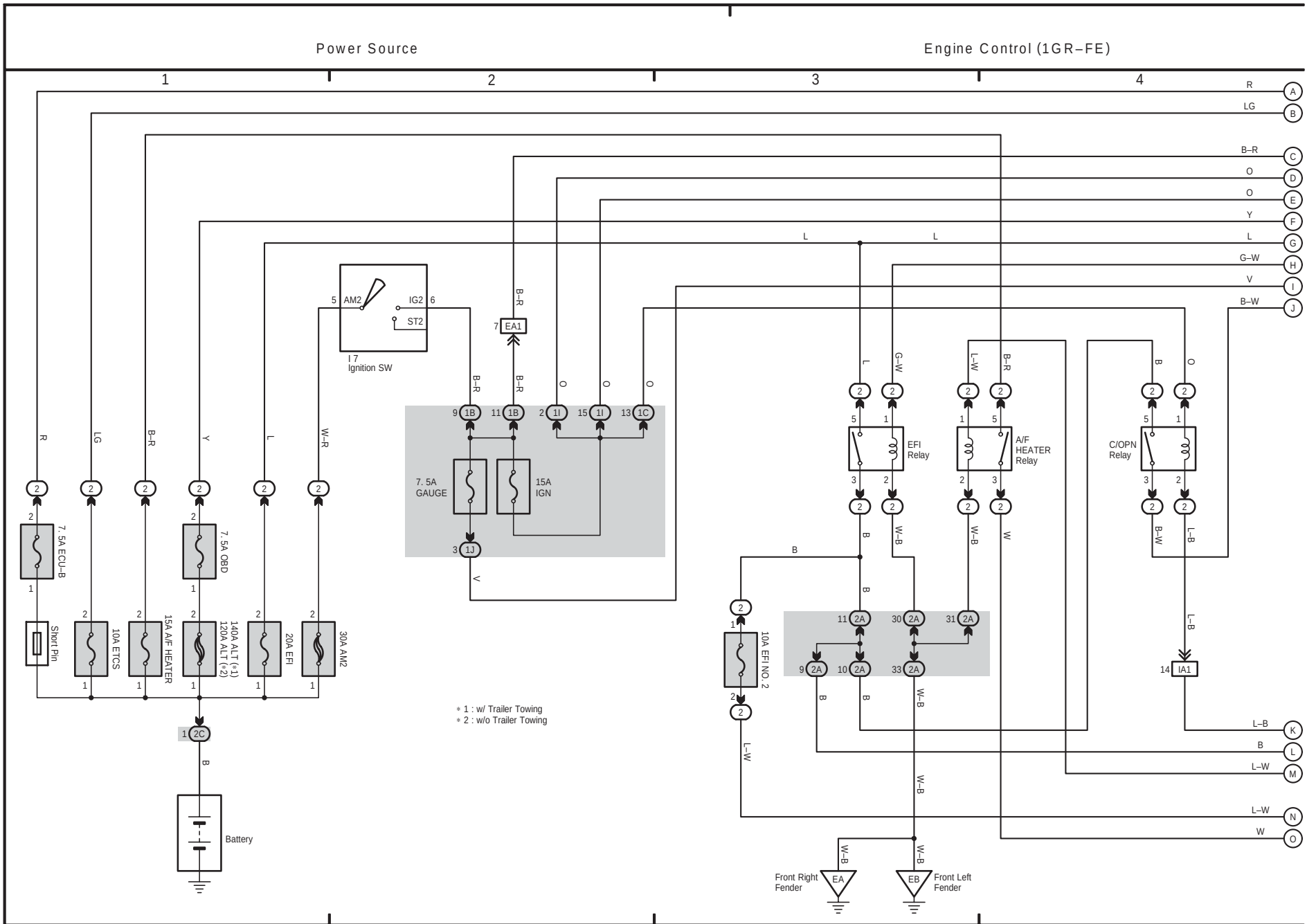


TOYOTA TACOMA (EM01D0U)



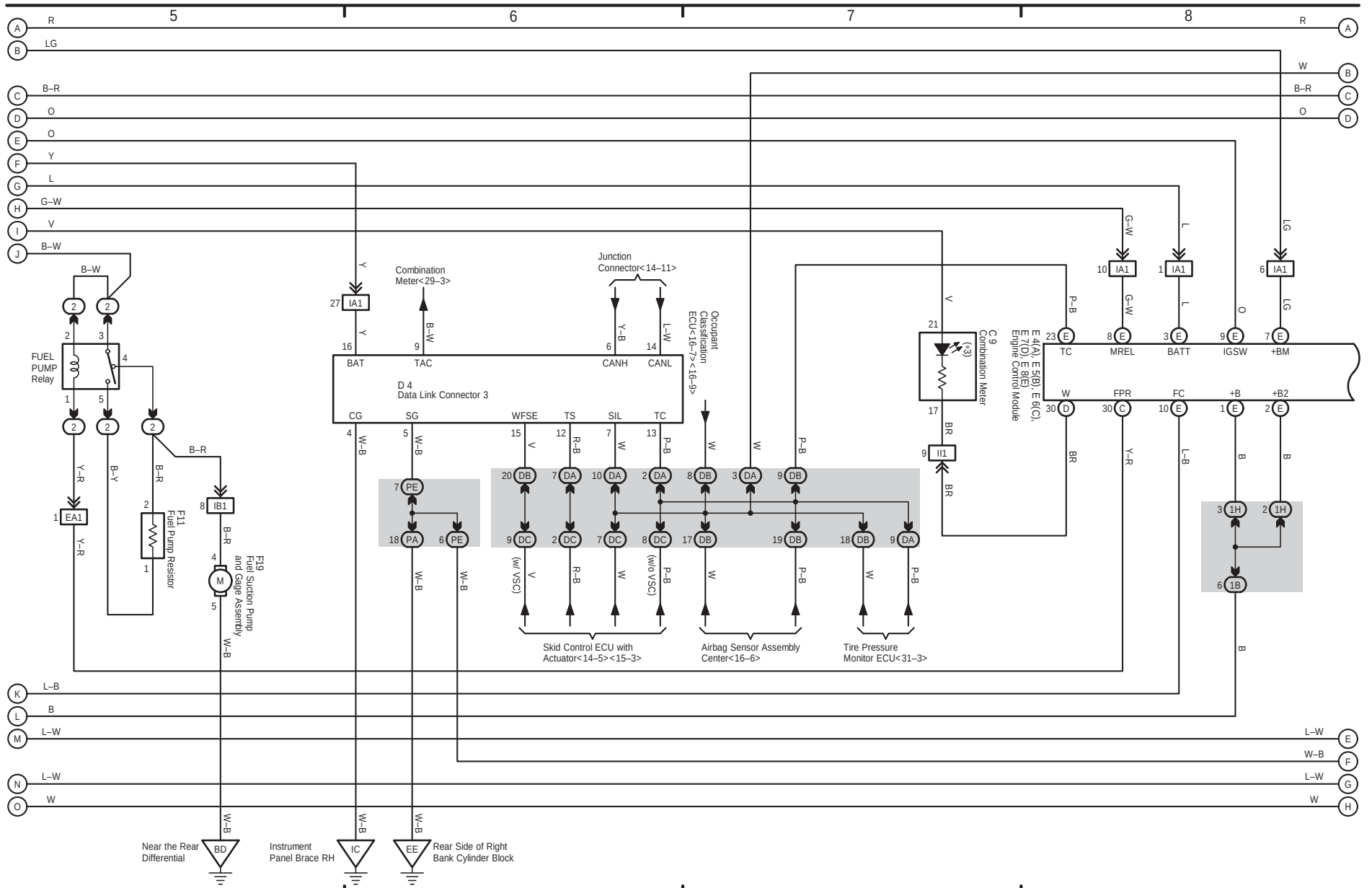
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4 TOYOTA TACOMA



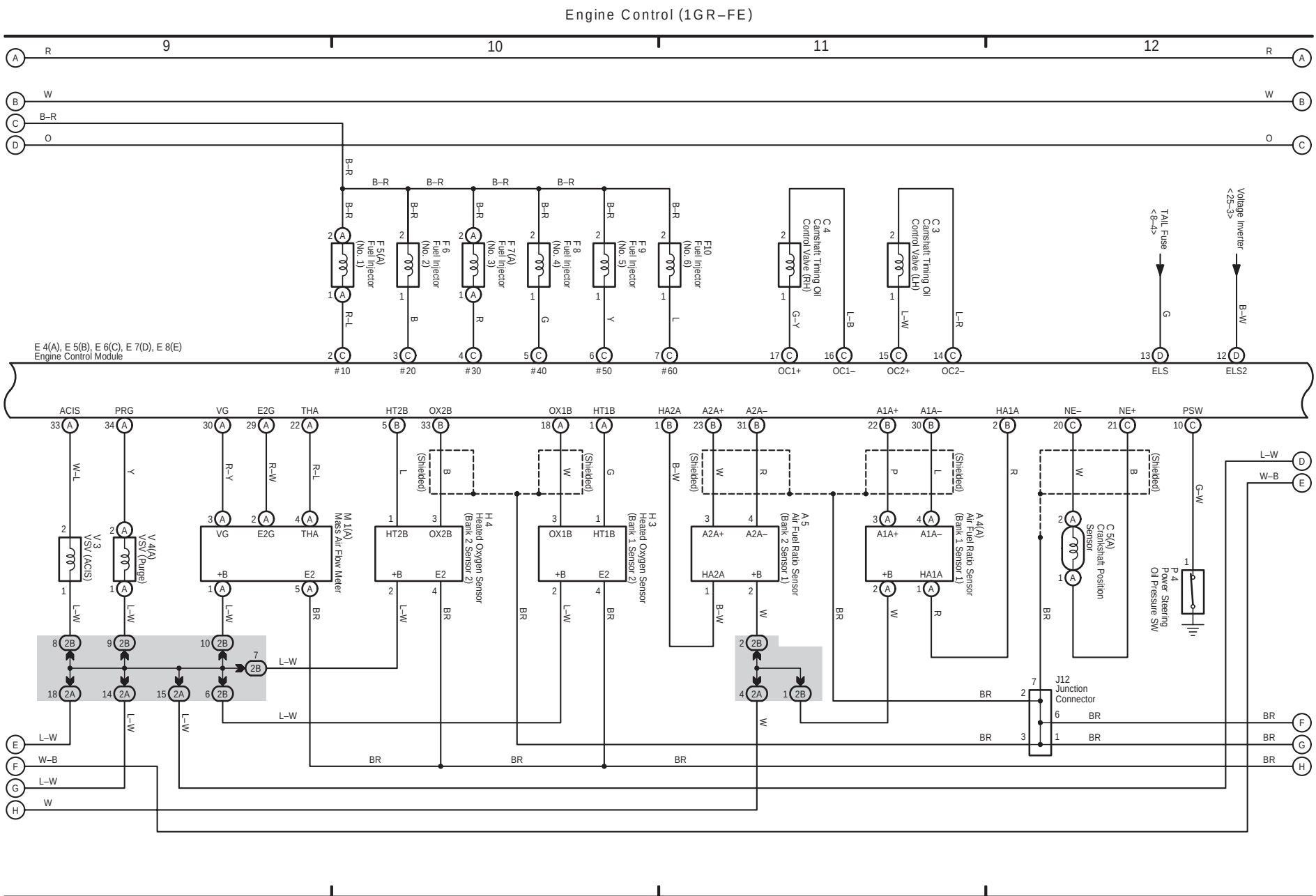
Engine Control (1GR-FE)

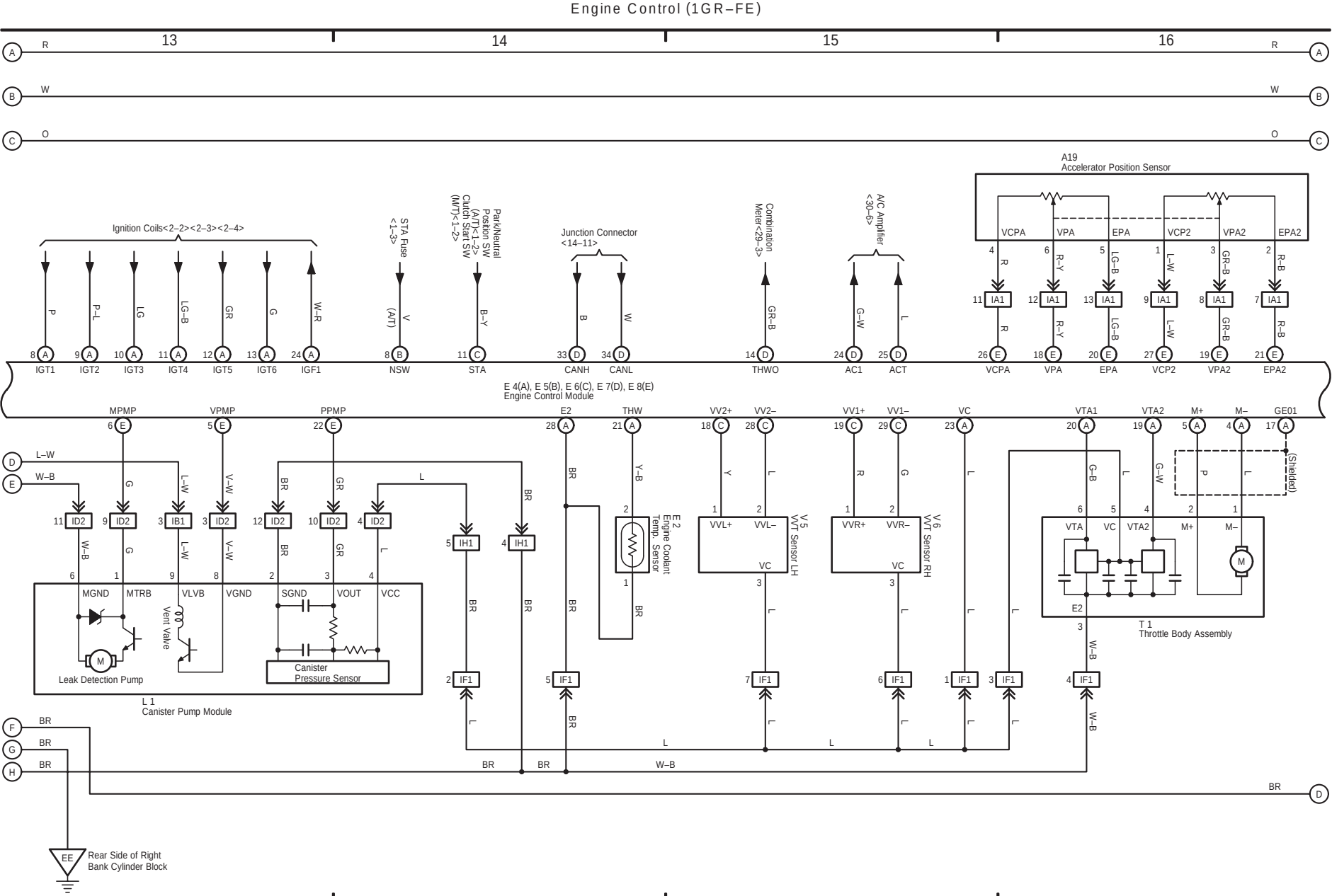
* 3 : Malfunction Indicator Lamp



(Cont. next page)

4 TOYOTA TACOMA (Cont' d)





Engine Control (1GR-FE)

Engine Immobilizer System (1GR-FE)

17

18

19

20

Engine Control Module (ECM) Connections:

- SPD (8 D):** Combination Meter <29-3>
- TACH (1 D):** Combination Meter <29-3>
- 4WD (8 C):** ADD Actuator Assembly <19-5>
- L4 (13 C):** Transfer Indicator SW (4 Position) <19-5>
- STP (15 E):** STOP LP CTRL Relay (W/ VSC) <8-3> (W/0 VSC) <9-3>
- F/PS (32 D):** Airbag Sensor Assembly Center <16-6>

Engine Immobilizer System (ECU) Connections:

- IG (2):** Ignition
- D (9):** Door
- +B (1):** Battery
- EFIO (13):** Engine Fuel Inlet
- EFII (12):** Engine Fuel Inlet
- IND (8):** Indicator
- KSW (3):** Key Switch
- CTY (7):** Cylinder
- GND (16):** Ground

Transponder Key Amplifier (T9) Connections:

- ANT1 (1):** Antenna 1
- CODE (4):** Code
- TXCT (5):** Transceiver
- AGND (7):** Antenna Ground

Transponder Key ECU (T10) Connections:

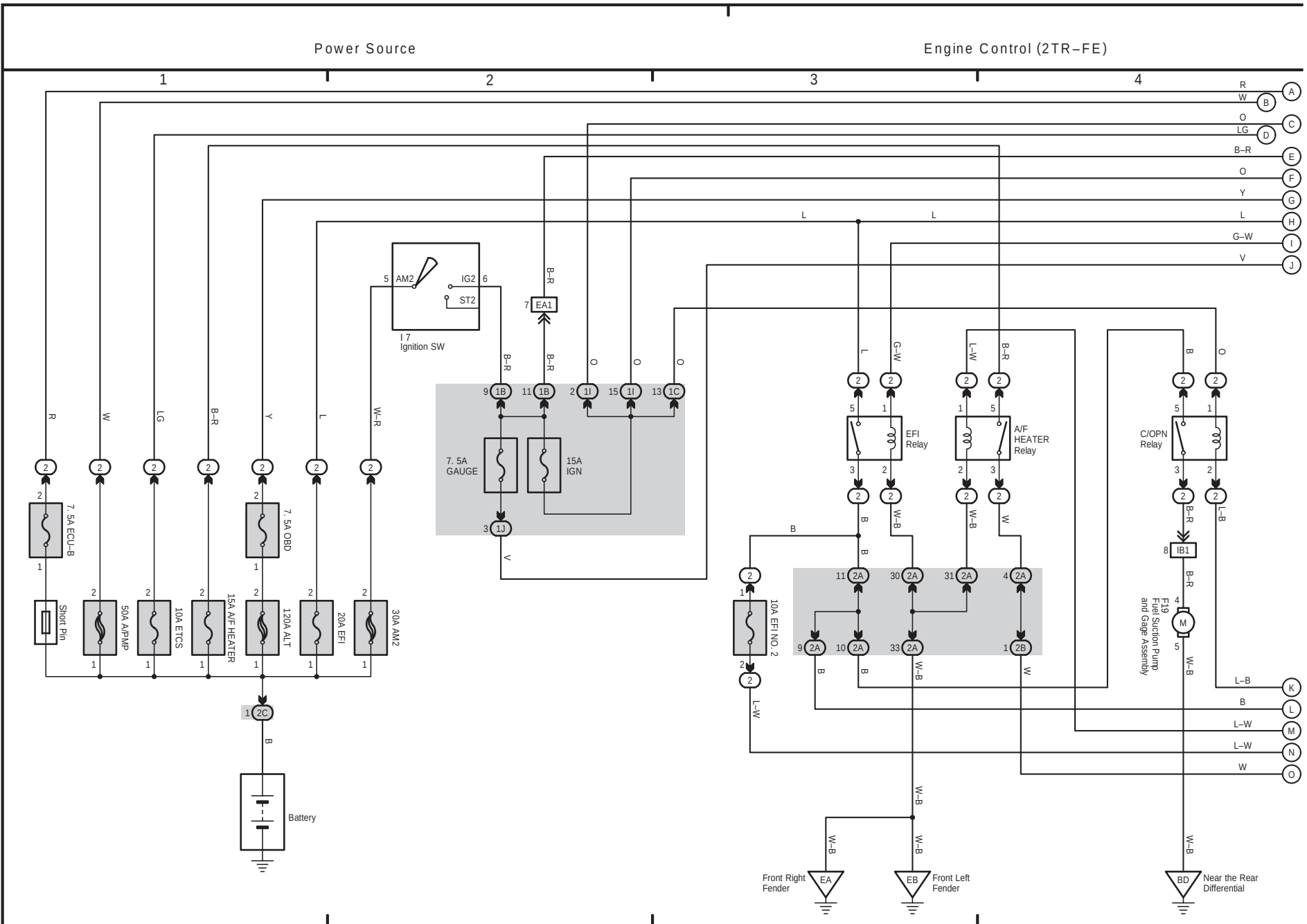
- VC5 (14):** Vehicle Control
- CODE (15):** Code
- TXCT (4):** Transceiver
- AGND (5):** Antenna Ground

Other Components and Connections:

- Knock Control Sensors (K1, K2):** Bank 1 and Bank 2
- Knock Control Sensors (EE1, EE2):** Bank 1 and Bank 2
- Knock Control Sensors (EF1, EF2):** Bank 1 and Bank 2
- Knock Control Sensors (IE1, IE2):** Bank 1 and Bank 2
- Knock Control Sensors (BB1, BB2):** Bank 1 and Bank 2
- Knock Control Sensors (IC1, IC2):** Bank 1 and Bank 2
- Knock Control Sensors (J13, J14):** Bank 1 and Bank 2
- Knock Control Sensors (J15, J16):** Bank 1 and Bank 2
- Knock Control Sensors (J17, J18):** Bank 1 and Bank 2
- Knock Control Sensors (J19, J20):** Bank 1 and Bank 2
- Knock Control Sensors (J21, J22):** Bank 1 and Bank 2
- Knock Control Sensors (J23, J24):** Bank 1 and Bank 2
- Knock Control Sensors (J25, J26):** Bank 1 and Bank 2
- Knock Control Sensors (J27, J28):** Bank 1 and Bank 2
- Knock Control Sensors (J29, J30):** Bank 1 and Bank 2
- Knock Control Sensors (J31, J32):** Bank 1 and Bank 2
- Knock Control Sensors (J33, J34):** Bank 1 and Bank 2
- Knock Control Sensors (J35, J36):** Bank 1 and Bank 2
- Knock Control Sensors (J37, J38):** Bank 1 and Bank 2
- Knock Control Sensors (J39, J40):** Bank 1 and Bank 2
- Knock Control Sensors (J41, J42):** Bank 1 and Bank 2
- Knock Control Sensors (J43, J44):** Bank 1 and Bank 2
- Knock Control Sensors (J45, J46):** Bank 1 and Bank 2
- Knock Control Sensors (J47, J48):** Bank 1 and Bank 2
- Knock Control Sensors (J49, J50):** Bank 1 and Bank 2
- Knock Control Sensors (J51, J52):** Bank 1 and Bank 2
- Knock Control Sensors (J53, J54):** Bank 1 and Bank 2
- Knock Control Sensors (J55, J56):** Bank 1 and Bank 2
- Knock Control Sensors (J57, J58):** Bank 1 and Bank 2
- Knock Control Sensors (J59, J60):** Bank 1 and Bank 2
- Knock Control Sensors (J61, J62):** Bank 1 and Bank 2
- Knock Control Sensors (J63, J64):** Bank 1 and Bank 2
- Knock Control Sensors (J65, J66):** Bank 1 and Bank 2
- Knock Control Sensors (J67, J68):** Bank 1 and Bank 2
- Knock Control Sensors (J69, J70):** Bank 1 and Bank 2
- Knock Control Sensors (J71, J72):** Bank 1 and Bank 2
- Knock Control Sensors (J73, J74):** Bank 1 and Bank 2
- Knock Control Sensors (J75, J76):** Bank 1 and Bank 2
- Knock Control Sensors (J77, J78):** Bank 1 and Bank 2
- Knock Control Sensors (J79, J80):** Bank 1 and Bank 2
- Knock Control Sensors (J81, J82):** Bank 1 and Bank 2
- Knock Control Sensors (J83, J84):** Bank 1 and Bank 2
- Knock Control Sensors (J85, J86):** Bank 1 and Bank 2
- Knock Control Sensors (J87, J88):** Bank 1 and Bank 2
- Knock Control Sensors (J89, J90):** Bank 1 and Bank 2
- Knock Control Sensors (J91, J92):** Bank 1 and Bank 2
- Knock Control Sensors (J93, J94):** Bank 1 and Bank 2
- Knock Control Sensors (J95, J96):** Bank 1 and Bank 2
- Knock Control Sensors (J97, J98):** Bank 1 and Bank 2
- Knock Control Sensors (J99, J100):** Bank 1 and Bank 2

(Cont. next page)

5 TOYOTA TACOMA



Engine Control (2TR-FE)

* 1 : Malfunction Indicator Lamp

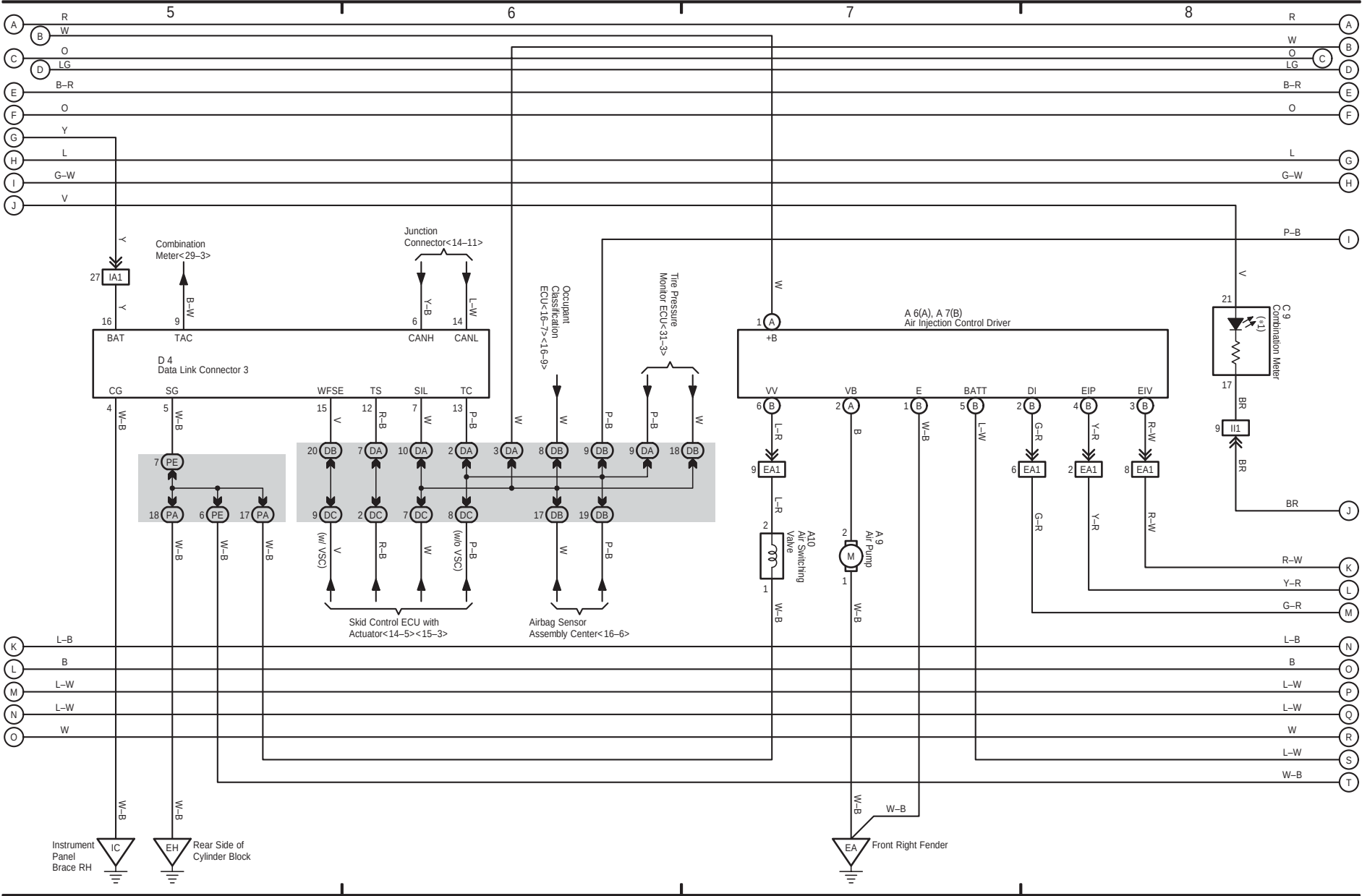
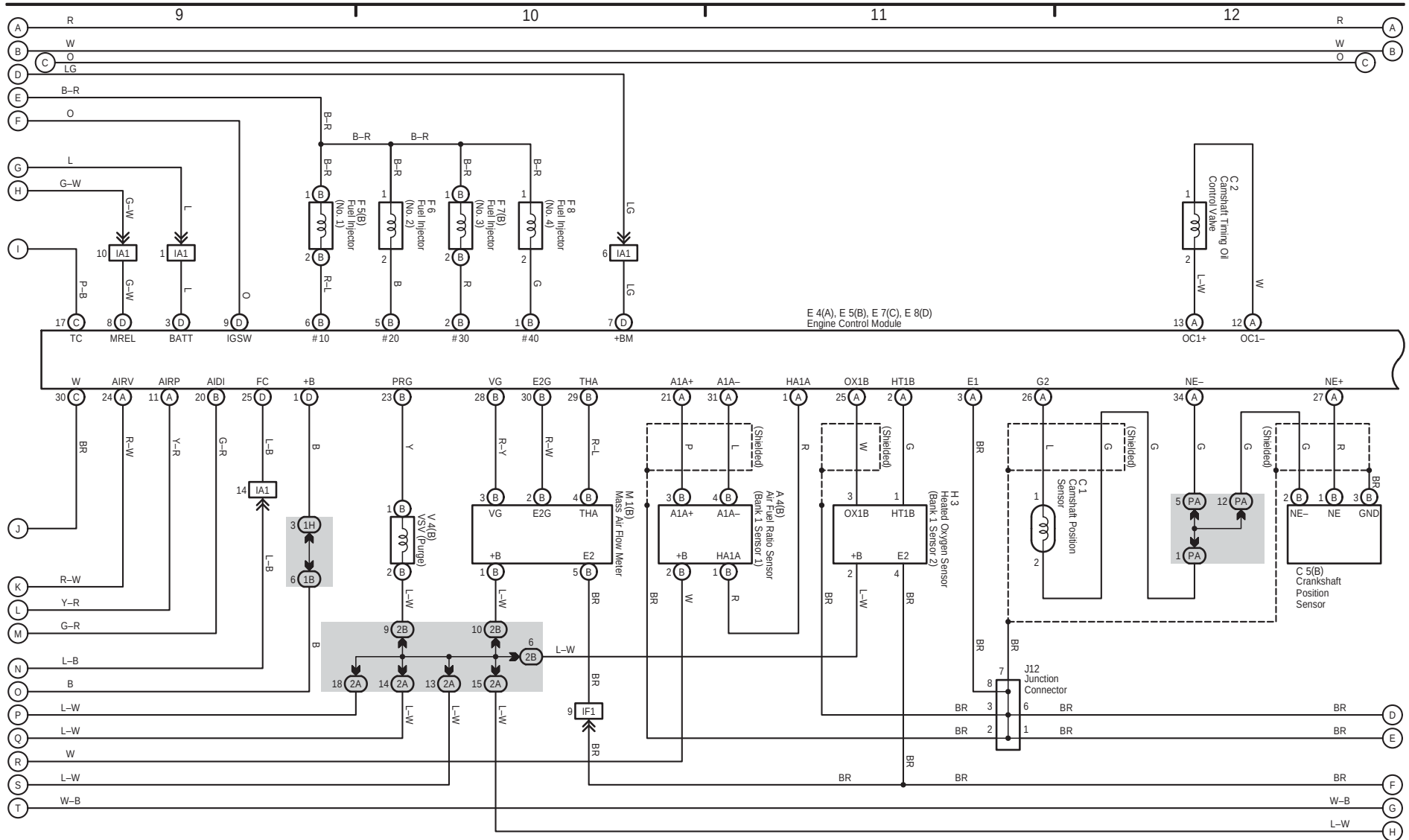
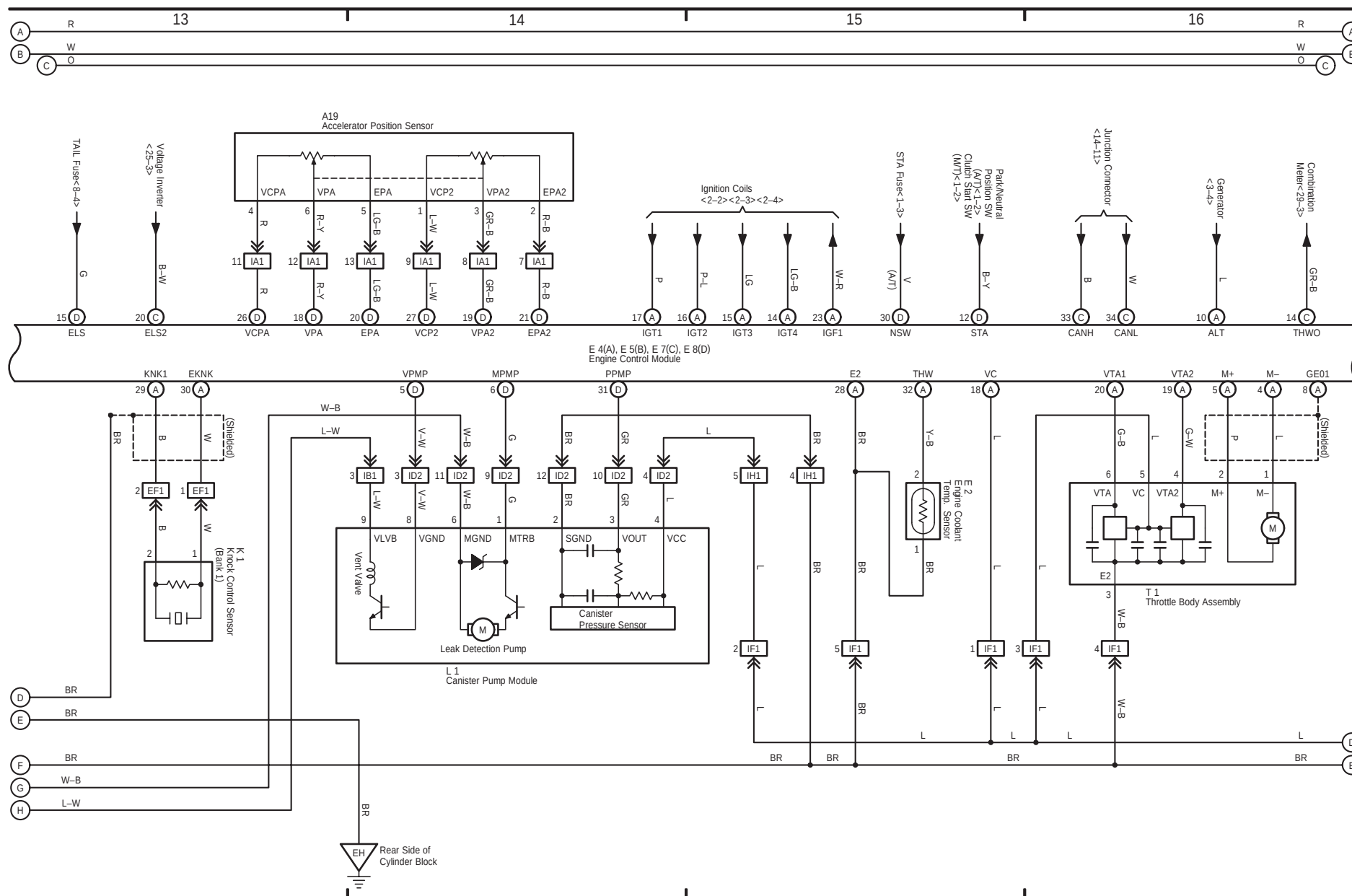


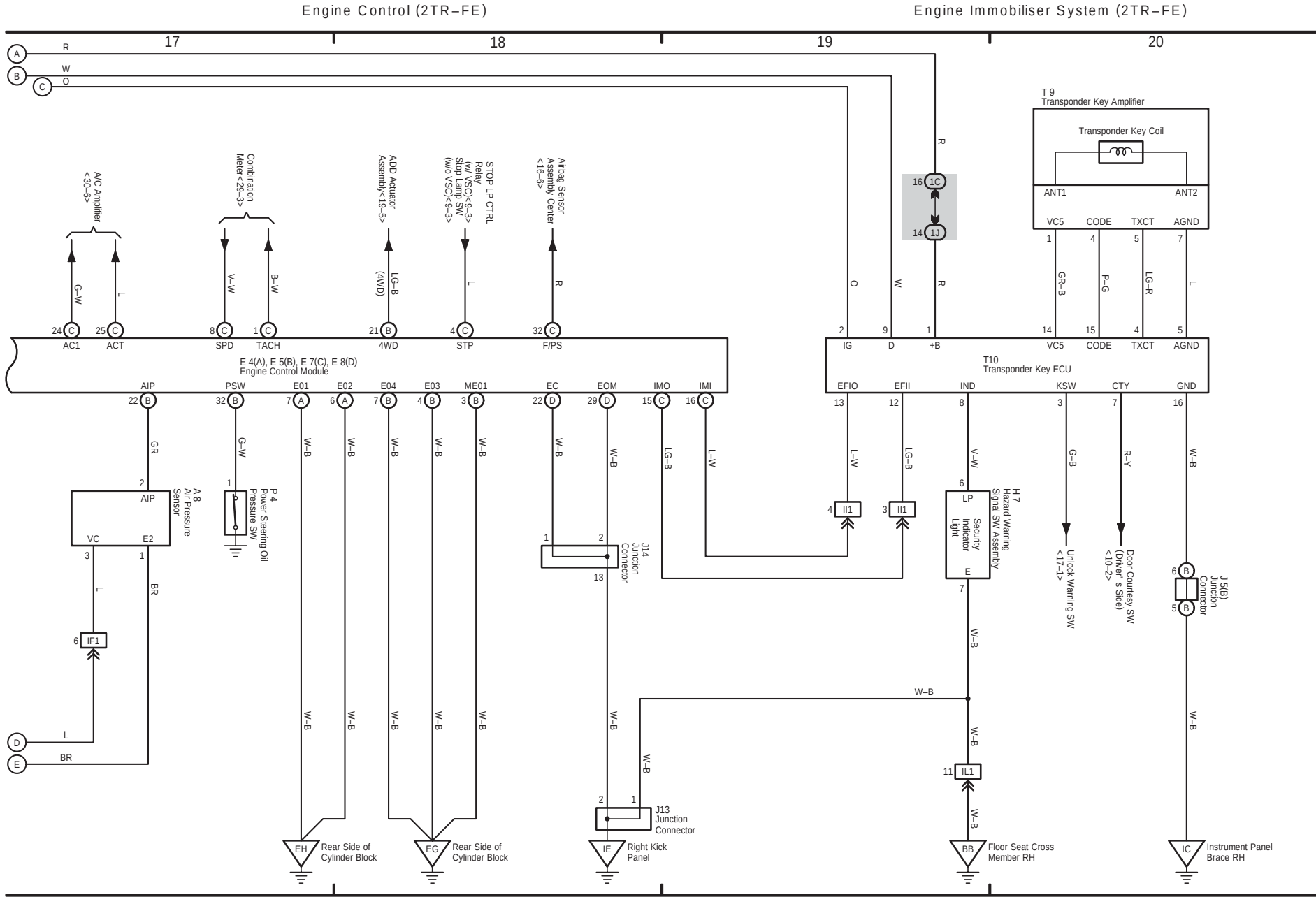
Diagram illustrating the types of work for different levels:

- P: L-W
- Q: L-W
- R: W
- S: L-W
- T: W-B



TOYOTA TACOMA (EM01D0U)





TOYOTA TACOMA (EM01DOU)

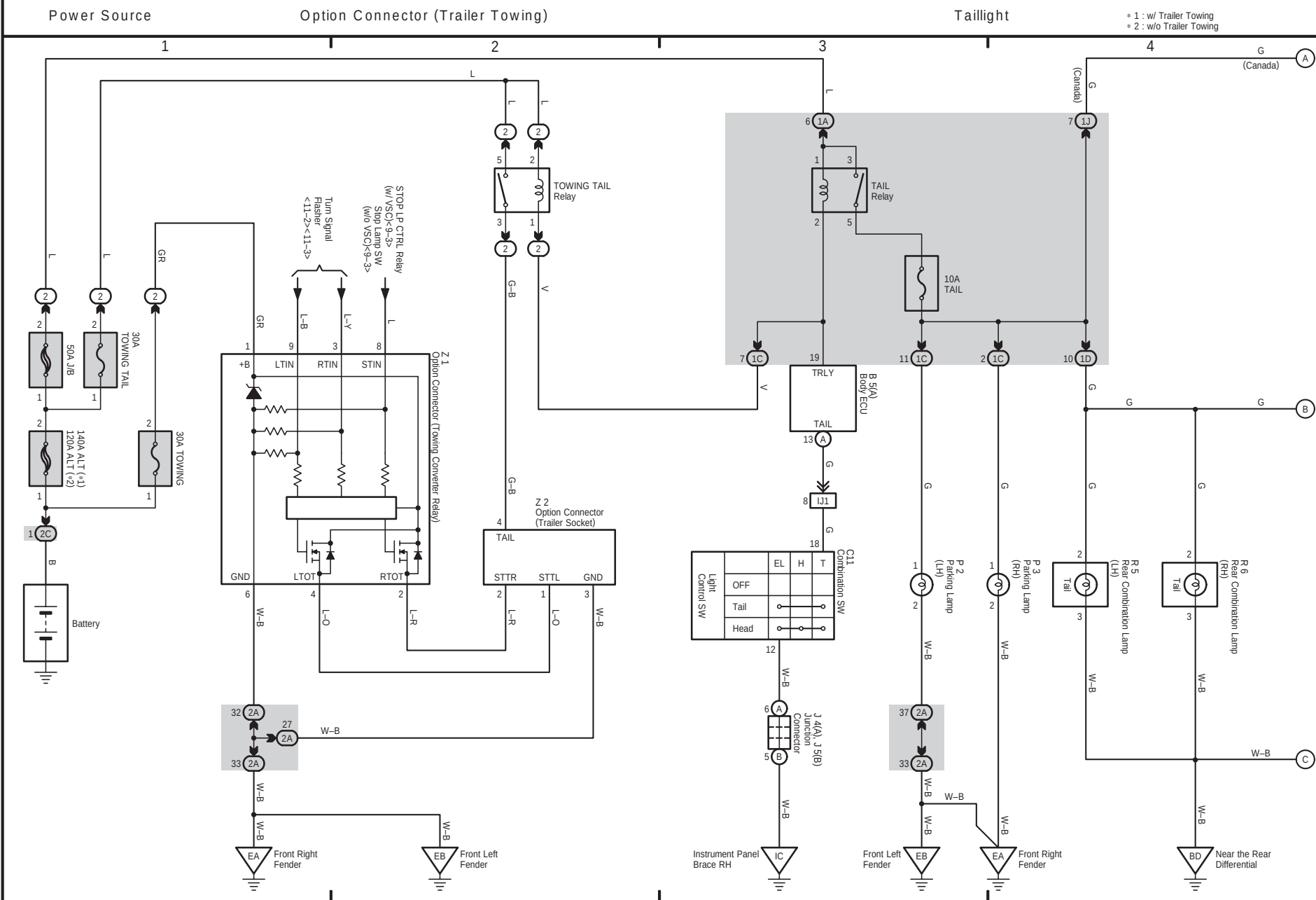


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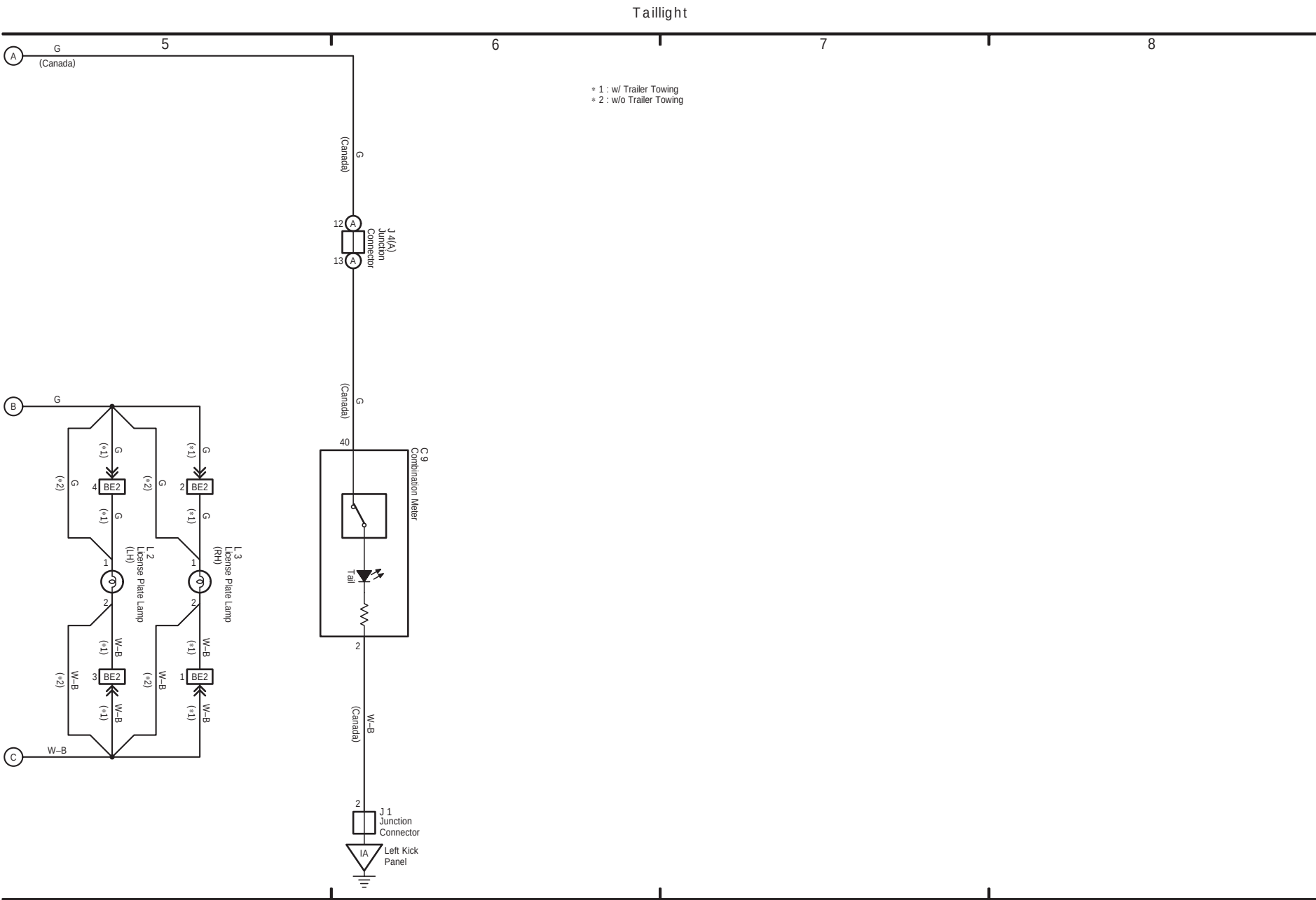
7 TOYOTA TACOMA

328

TOYOTA TACOMA (EM01D0U)



7 TOYOTA TACOMA (Cont' d)



M OVERALL ELECTRICAL WIRING DIAGRAM

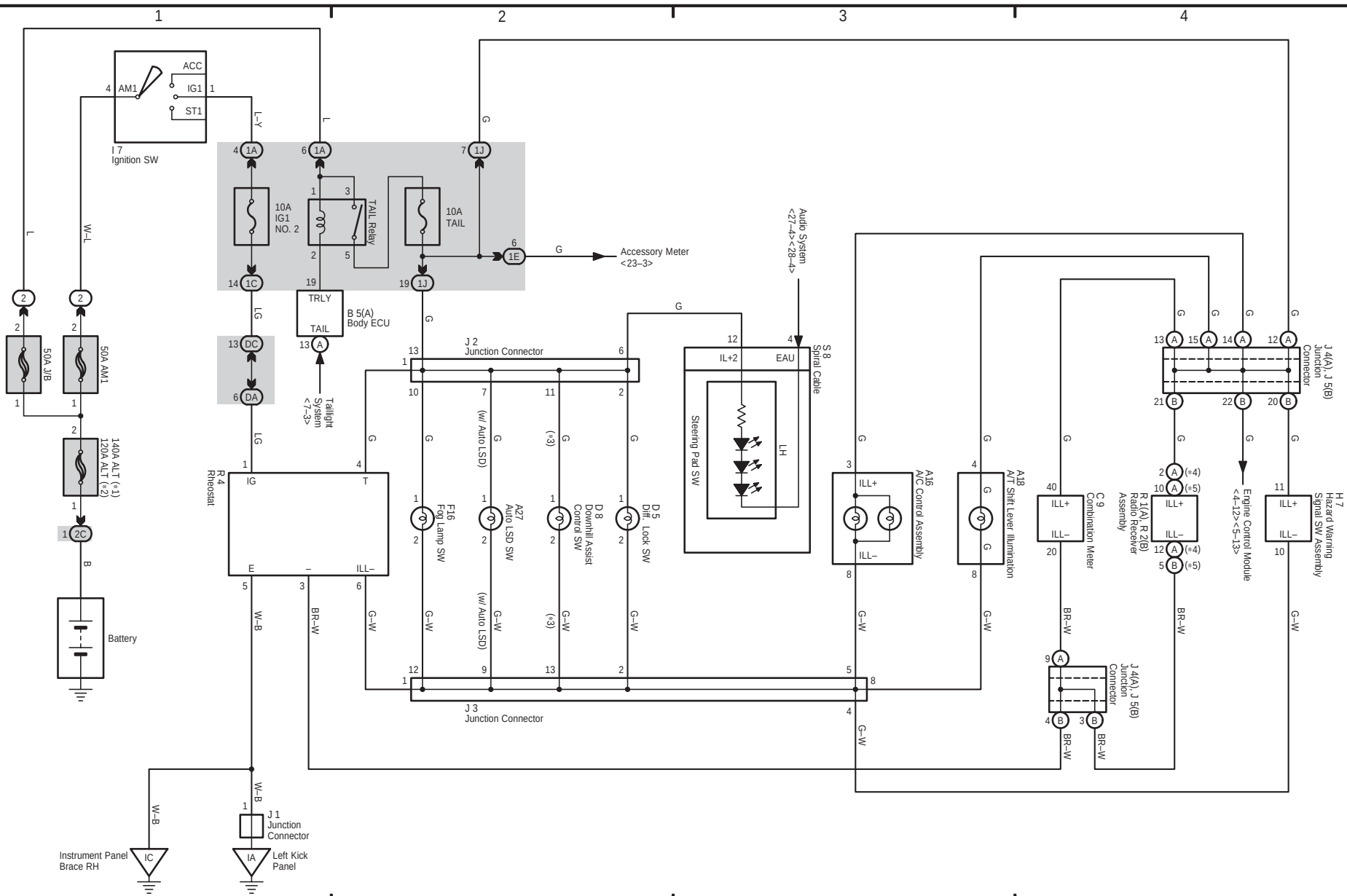
8 TOYOTA TACOMA

Power Source

Illumination

* 1 : w/ Trailer Towing
* 2 : w/o Trailer Towing

* 3 : w/ Downhill Assist Control
* 4 : Separate Type Amplifier
* 5 : Built-in Type Amplifier



TOYOTA TACOMA (EM01D0U)

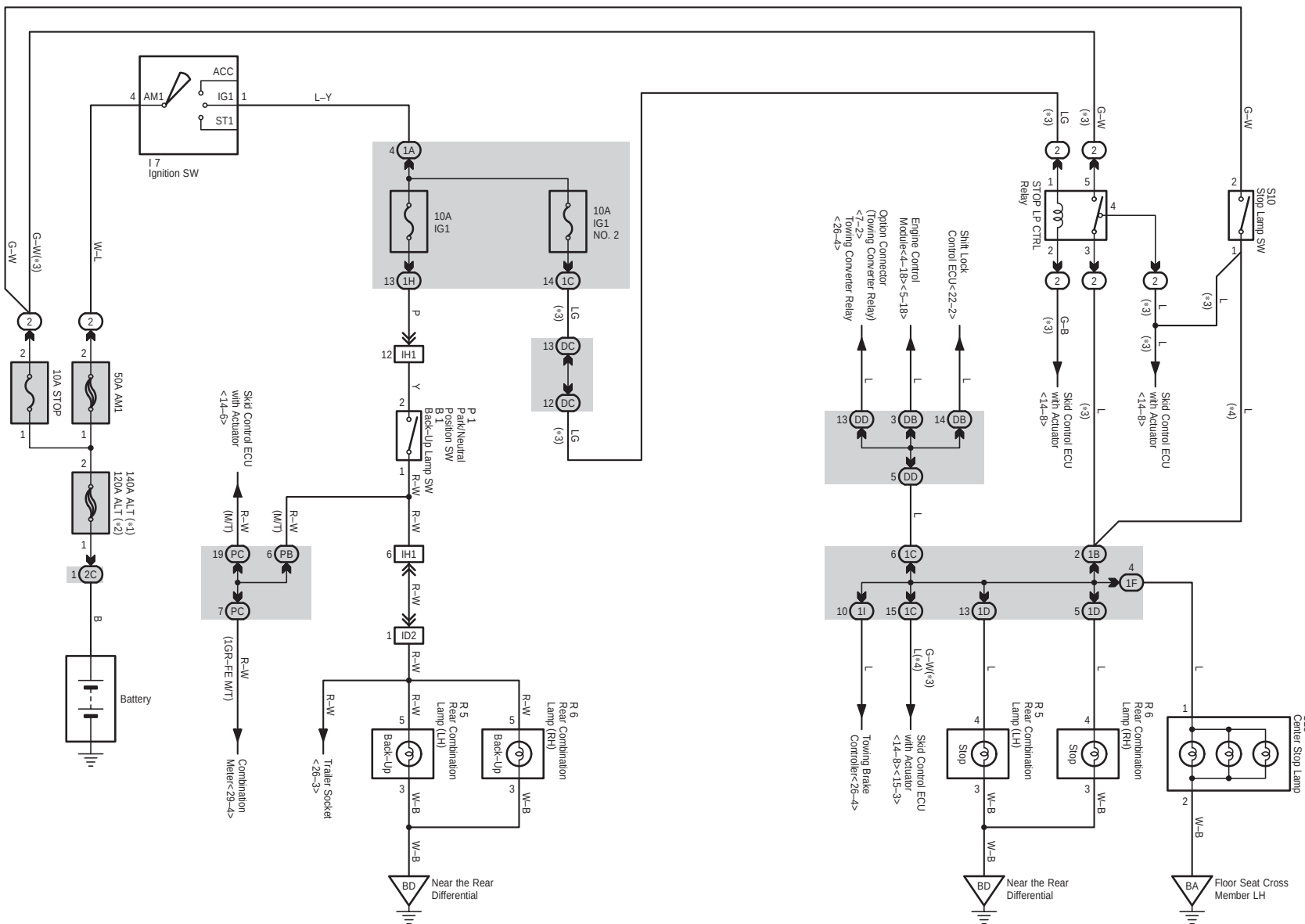
9 TOYOTA TACOMA

Power Source

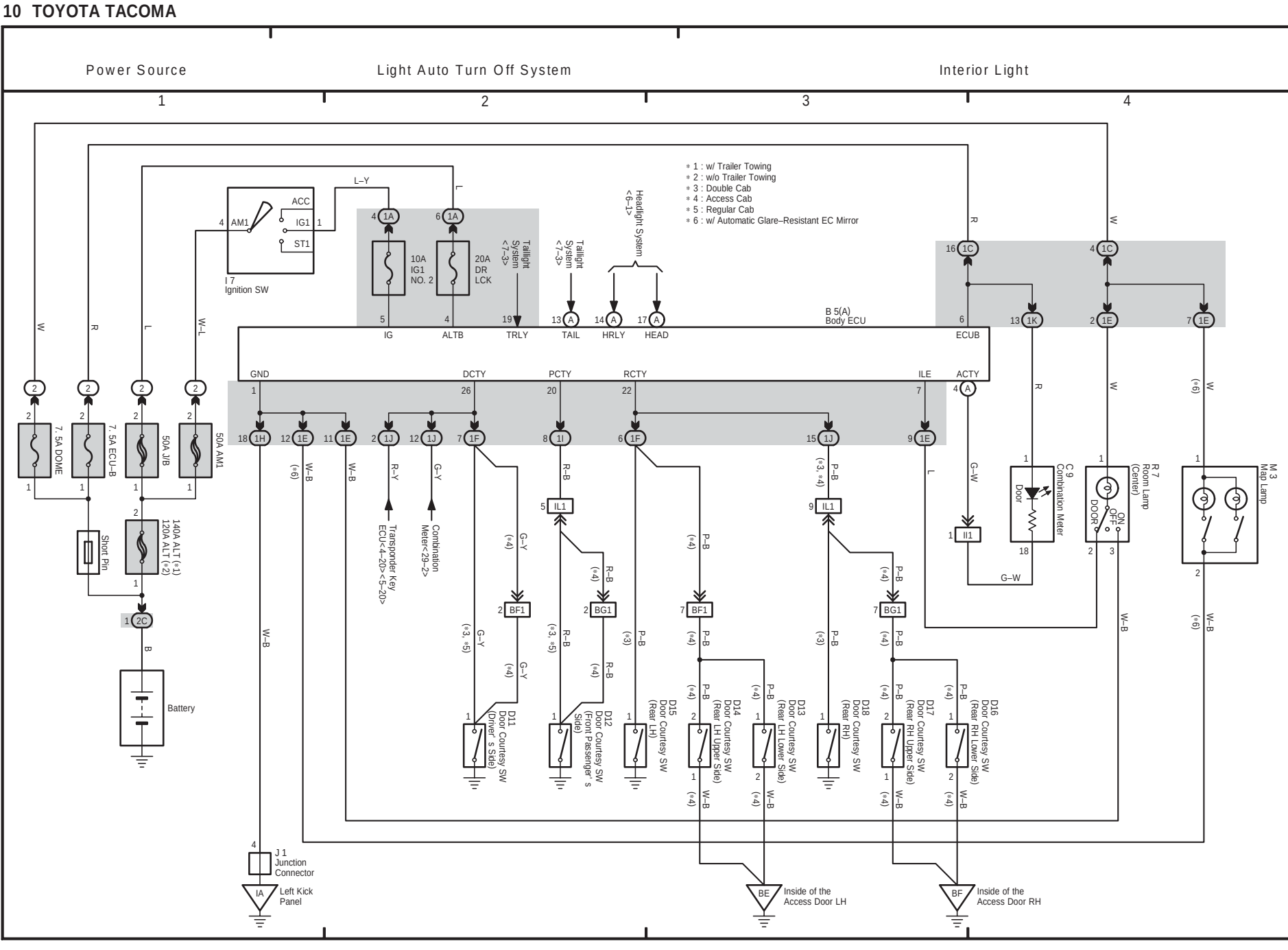
Back-Up Light

Stop Light

- * 1 : w/ Trailer Towing
- * 2 : w/o Trailer Towing
- * 3 : w/ VSC
- * 4 : w/o VSC

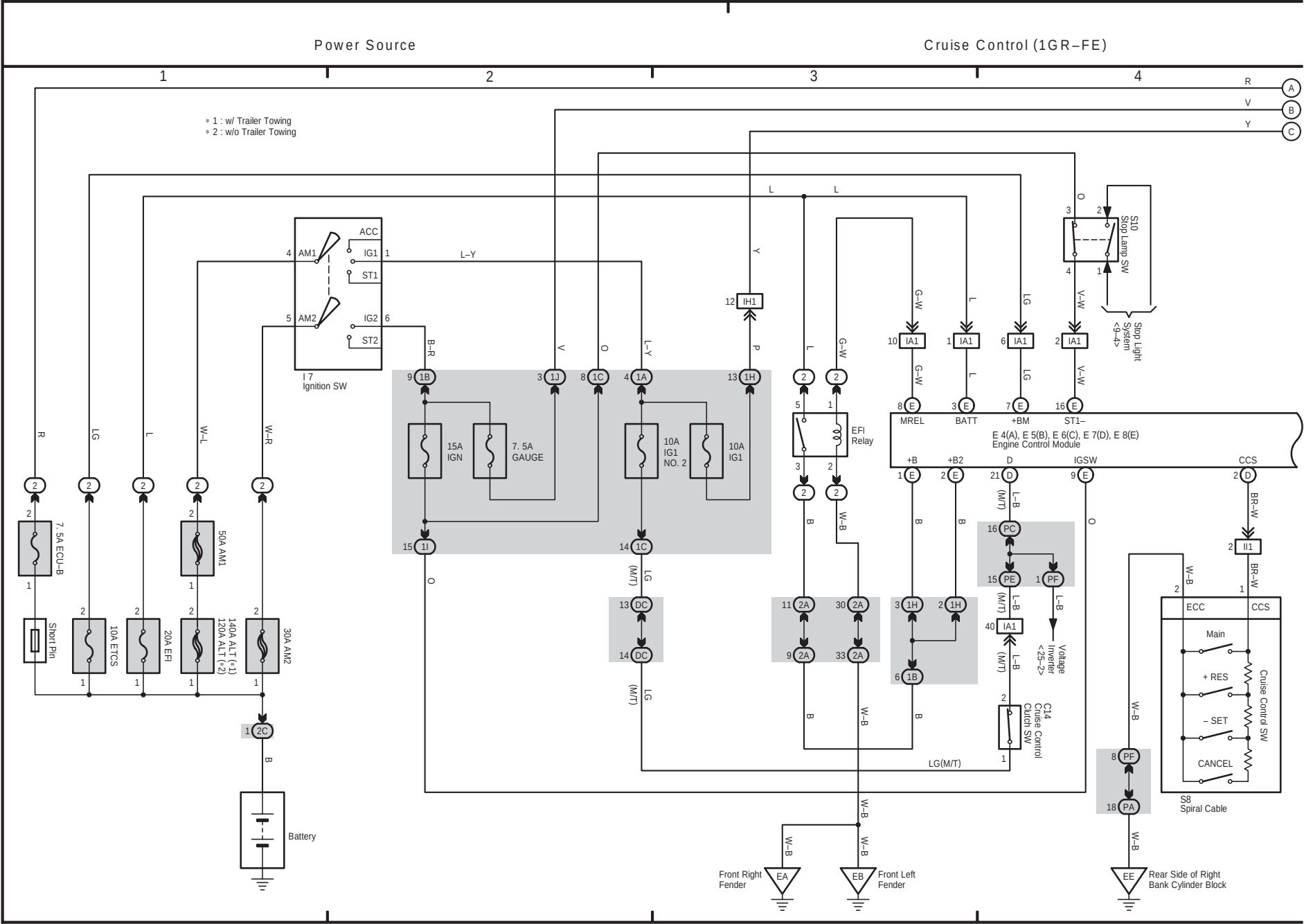


TOYOTA TACOMA (EM01D0U)

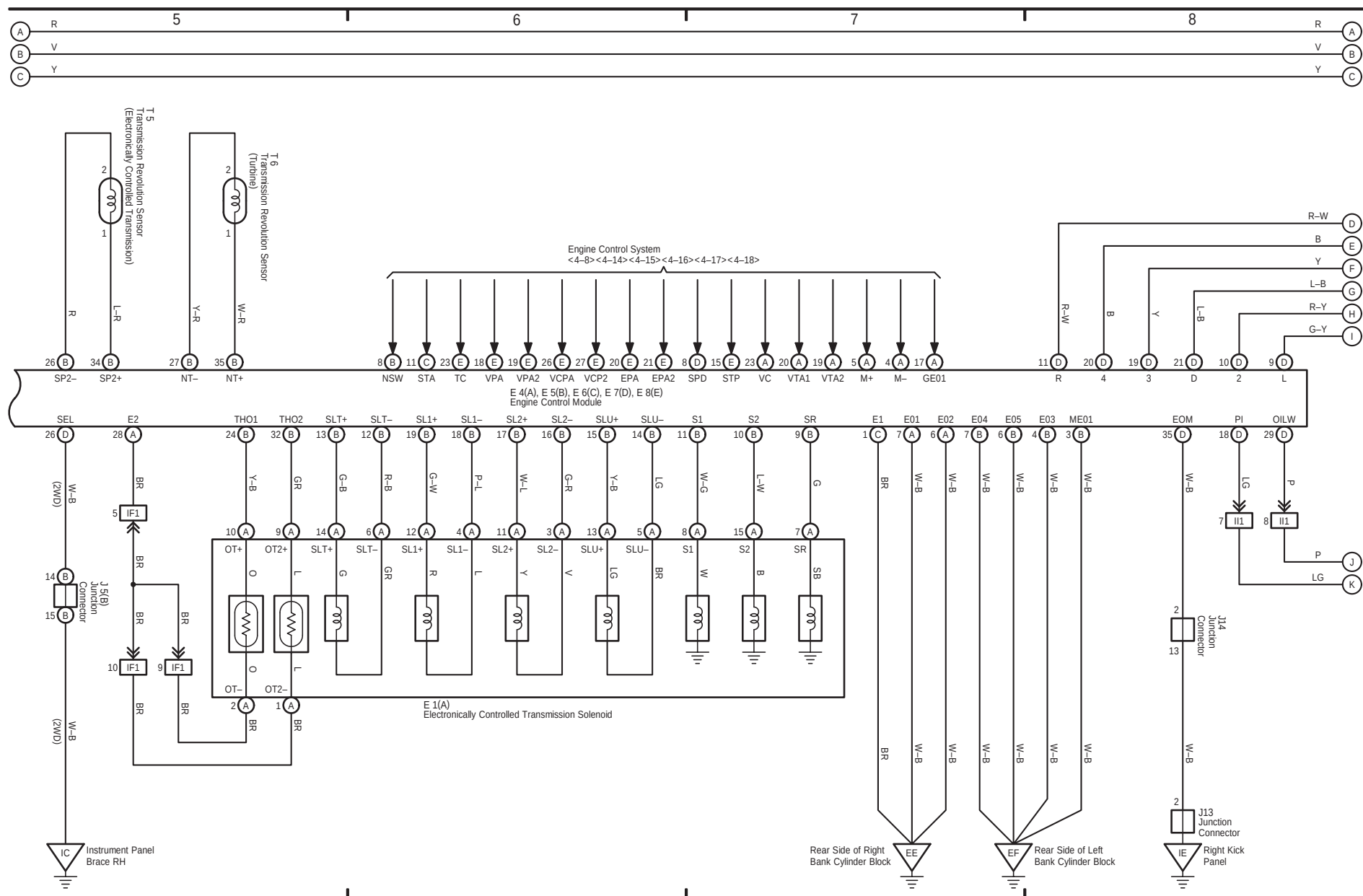
[illegible]

TOYOTA TACOMA (EM01D0U)

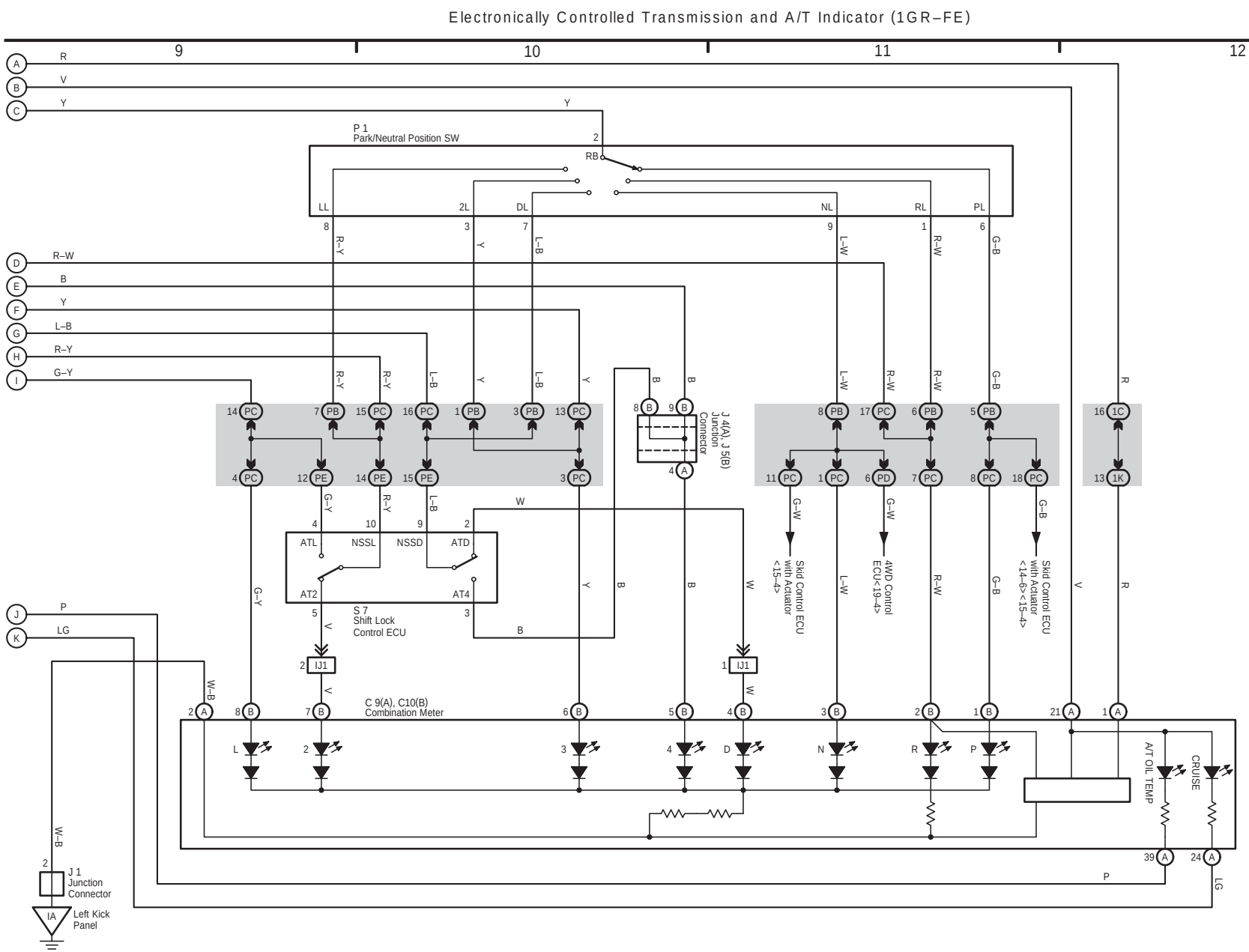


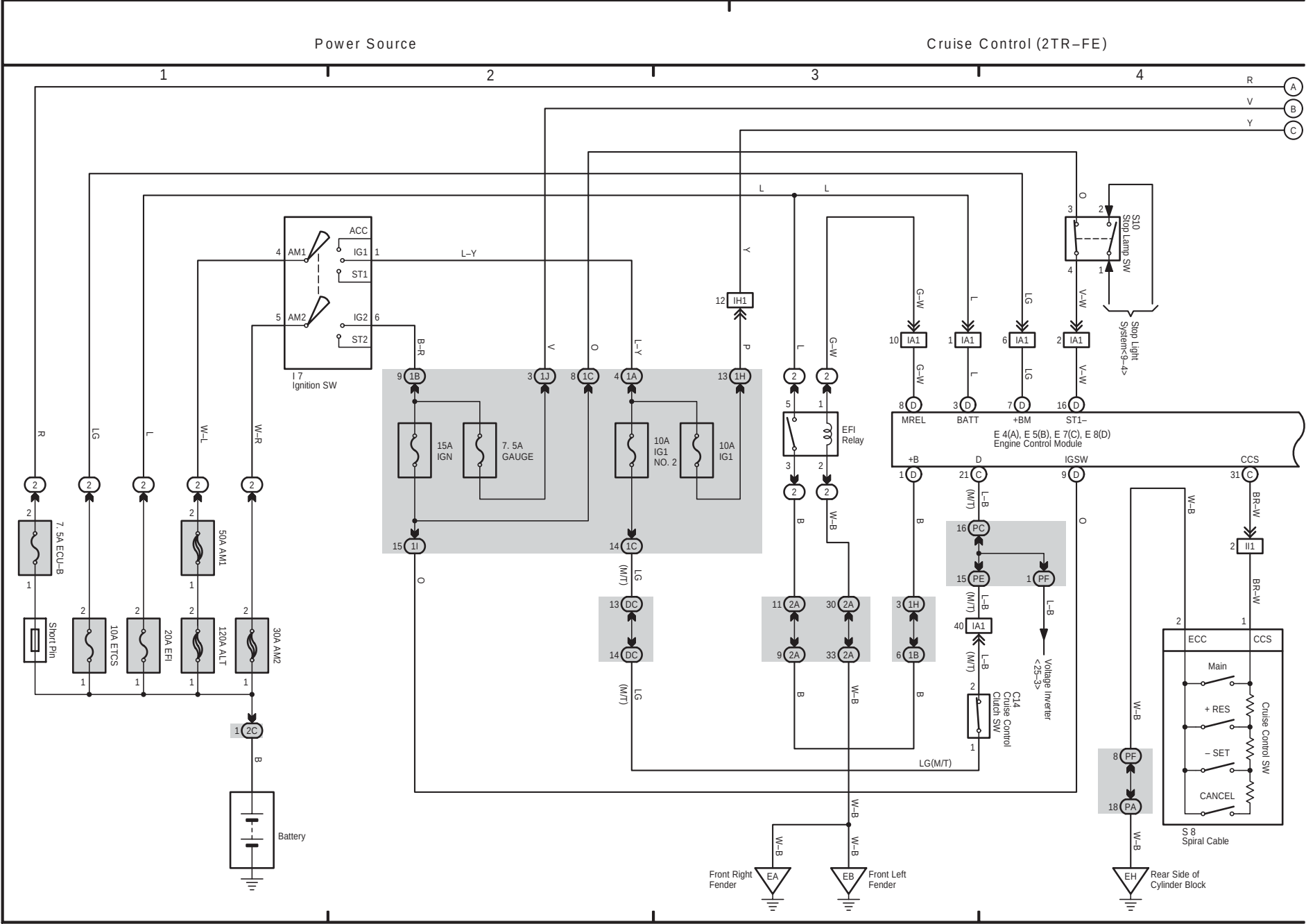


TOYOTA TACOMA (EM01D0U)

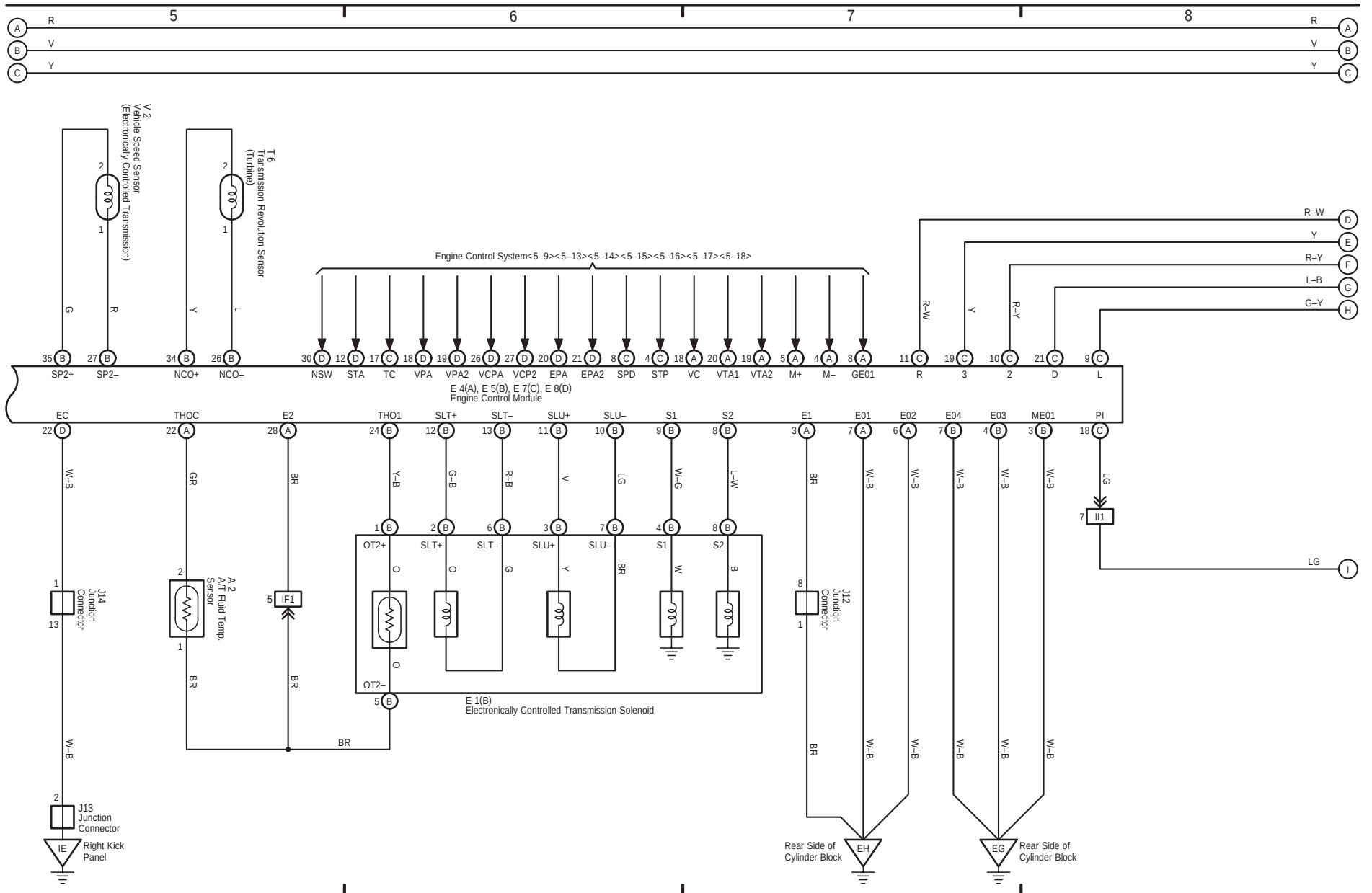


12 TOYOTA TACOMA (Cont' d)

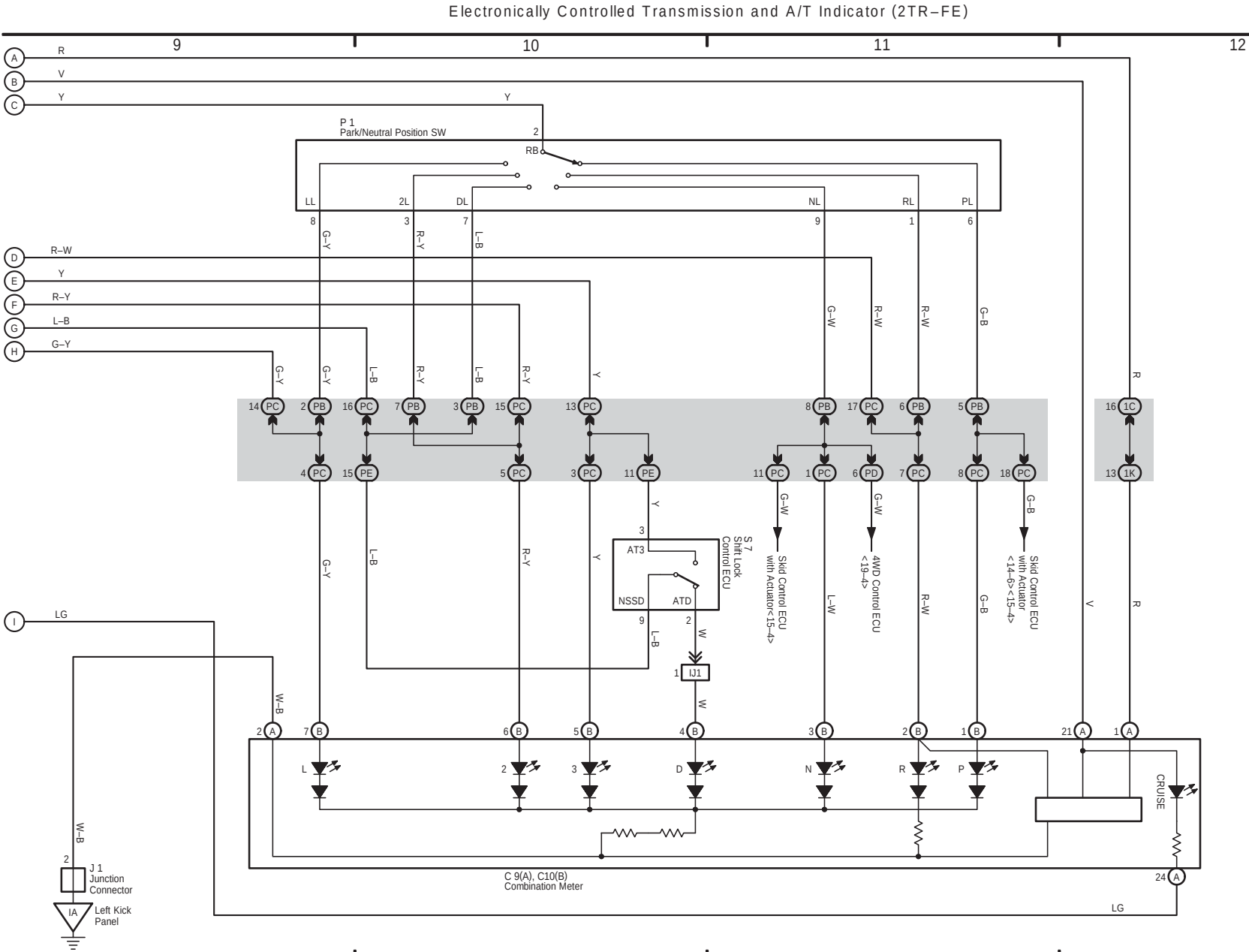




Electronically Controlled Transmission and A/T Indicator (2TR-FE)

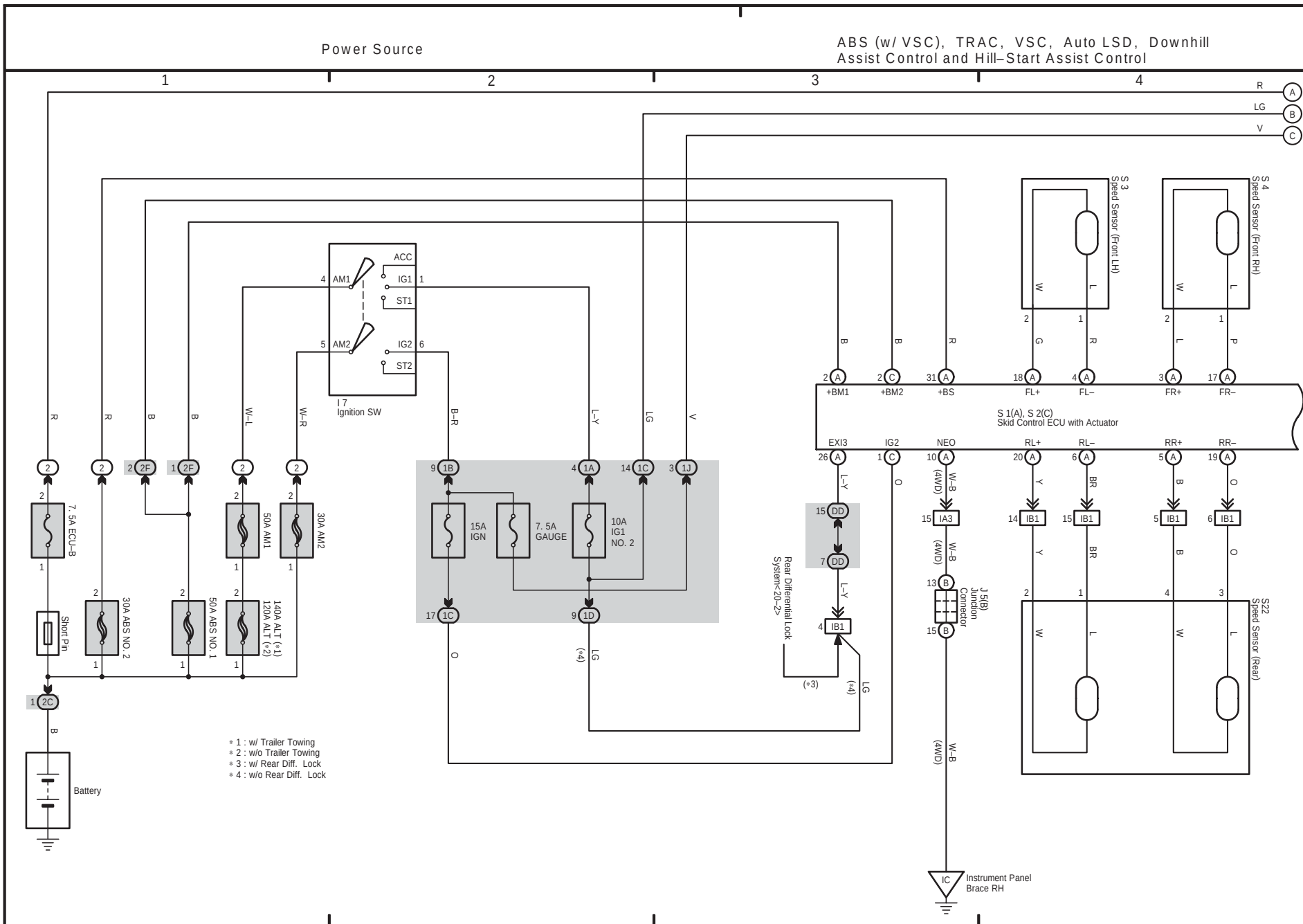


13 TOYOTA TACOMA (Cont' d)



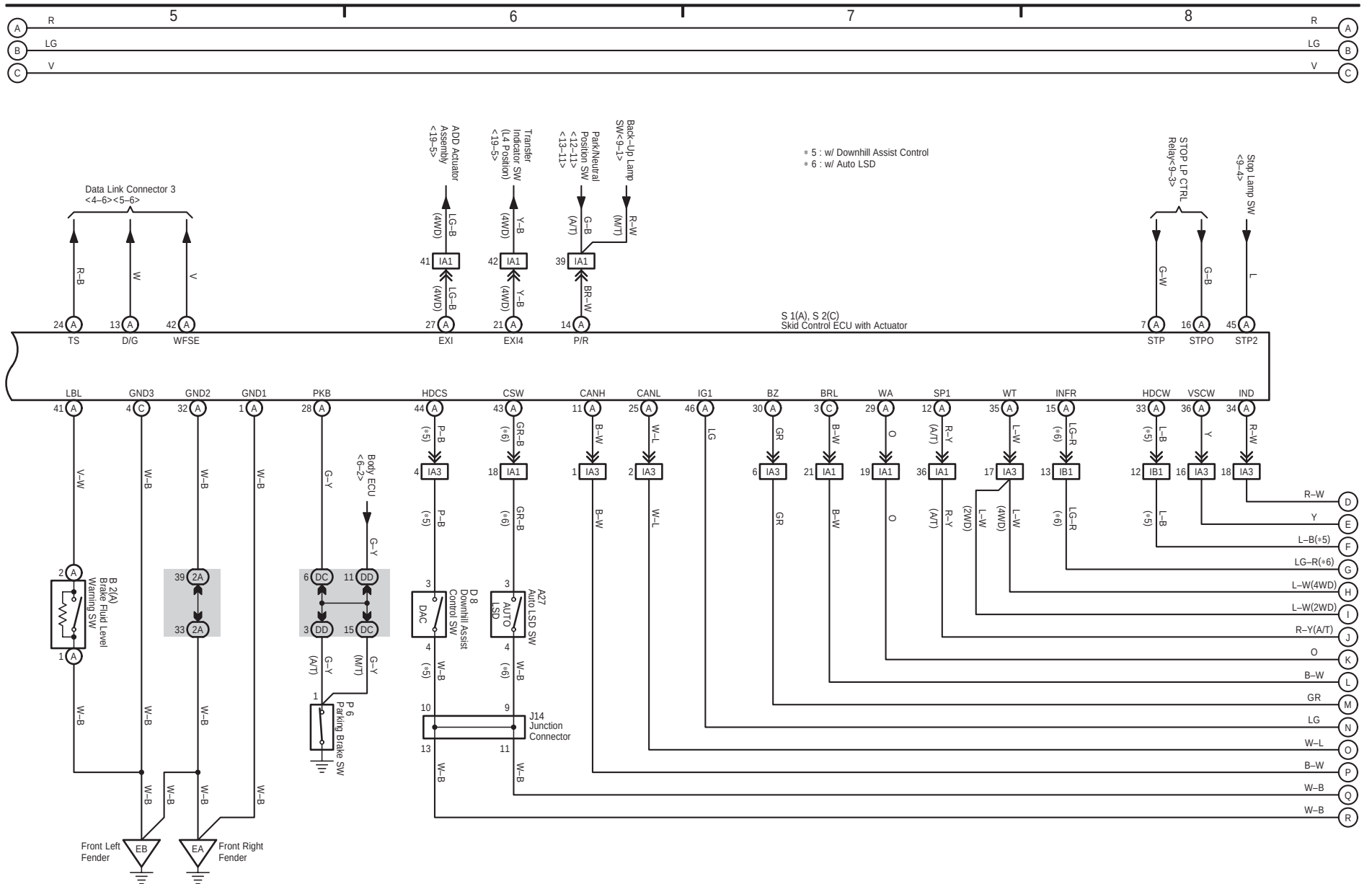
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14 TOYOTA TACOMA

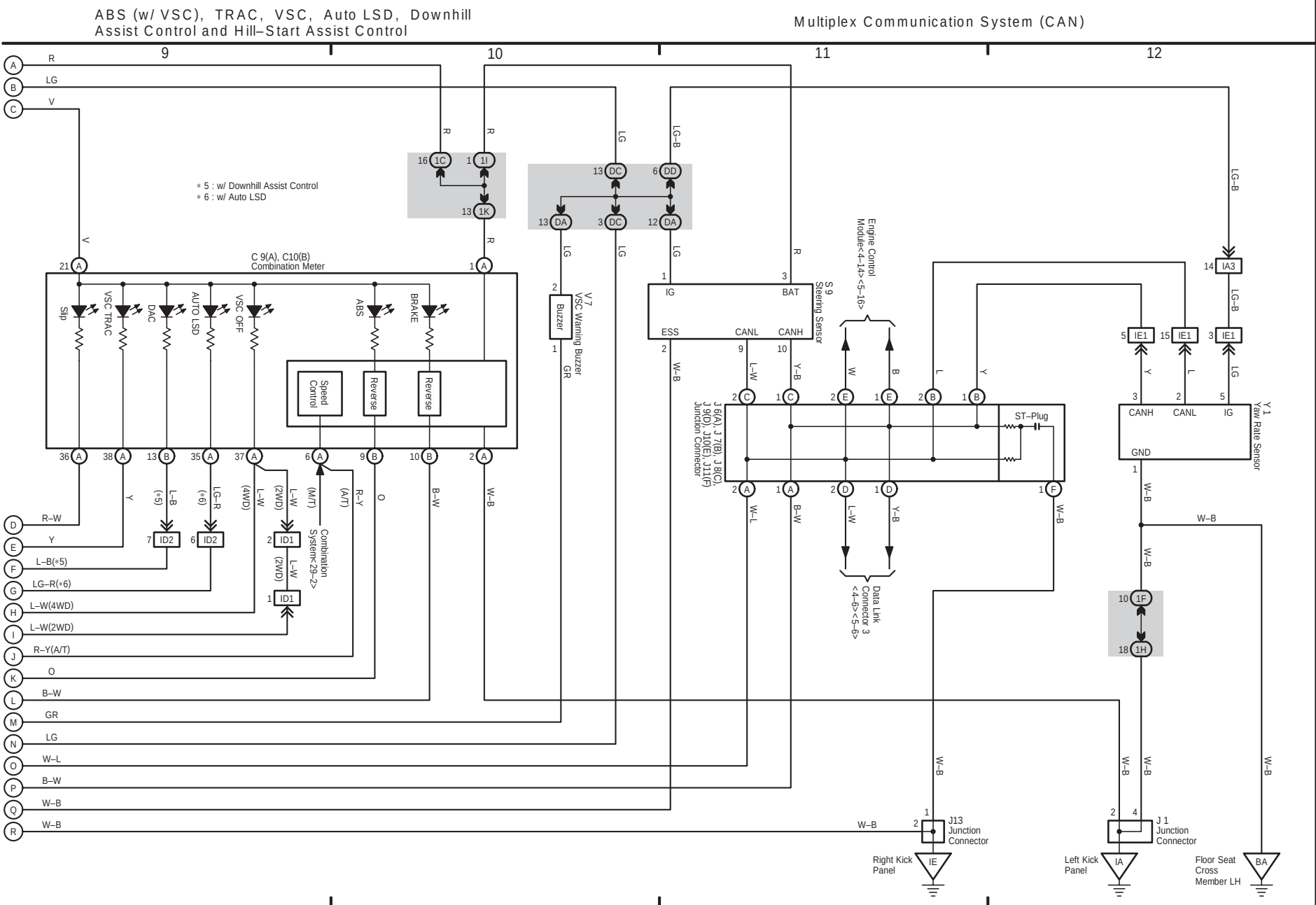


TOYOTA TACOMA (EM01D0U)

ABS (w/ VSC), TRAC, VSC, Auto LSD, Downhill Assist Control and Hill-Start Assist Control

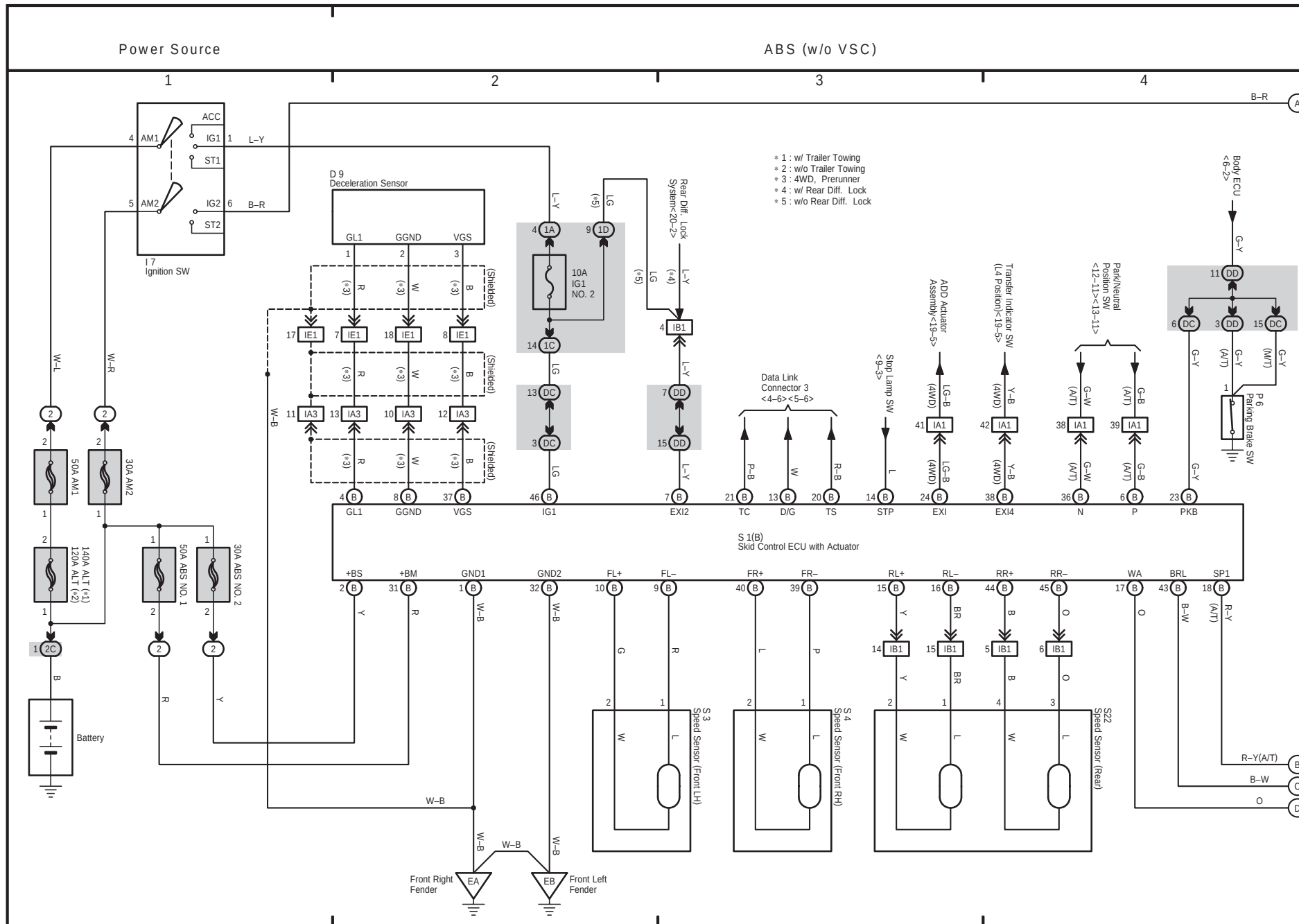


14 TOYOTA TACOMA (Cont' d)



15 TOYOTA TACOMA

(Cont. next page)



- * 1 : w/ Trailer Towing
- * 2 : w/o Trailer Towing
- * 3 : 4WD, Prerunner
- * 4 : w/ Rear Diff. Lock
- * 5 : w/o Rear Diff. Lock



(Cont. next page)

The diagram illustrates the electrical system for the 2007 Toyota Hilux 2.5L 4x4, divided into three main sections: Power Source, SRS, and other components.

Power Source: This section shows the battery connected to the ignition switch (IG1, IG2) and the combination meter. The combination meter includes a 7.5A gauge, 15A IGN, 10A IG1, and a 30A AM2. The battery is connected to the 120A ALT (1) and 120A ALT (2) terminals.

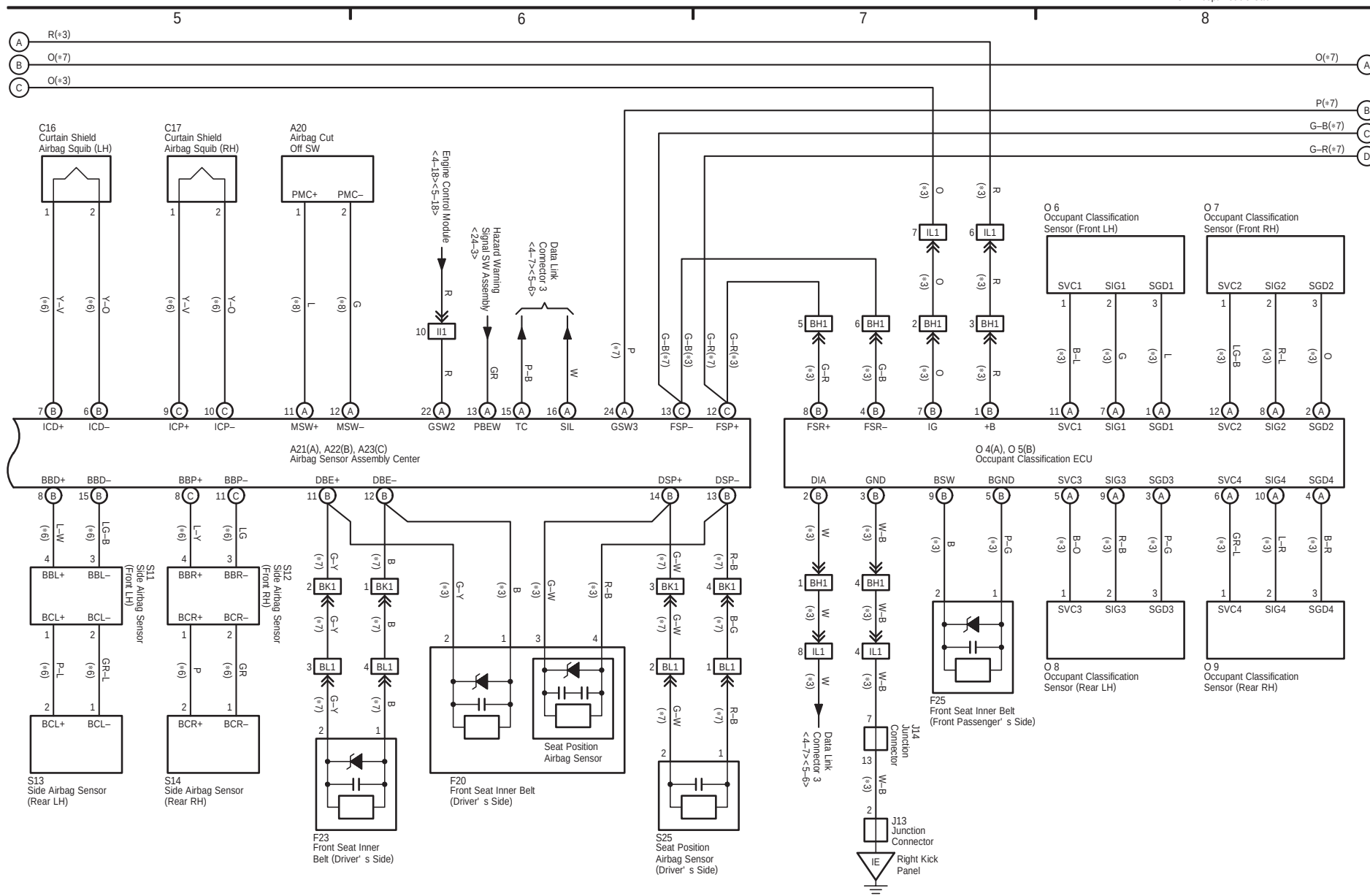
SRS: This section details the Supplemental Restraint System, including the front seat outer belt (LH) and (RH) pretensioners, side airbag squibs (LH and RH), and the airbag sensor assembly center. The diagram shows the wiring for the SRS components, including the airbag sensor assembly center (A21(A), A22(B), A23(C)) and the airbag squibs (A24(A), A25(B), A26(A), A27(B)).

Other Components: This section shows the wiring for various other components, including the instrument panel brace LH, the inside of the access door LH, and the left kick panel. The diagram also shows the wiring for the airbag sensor assembly center (A21(A), A22(B), A23(C)) and the airbag squibs (A24(A), A25(B), A26(A), A27(B)).

The diagram uses a color-coded system for wires, with colors like red (R), blue (B), yellow (Y), green (G), and black (K) indicating different circuits. Wire numbers and terminal numbers are used to identify specific points in the system.

SRS

- * 3 : Separate Seat
- * 6 : w/ Side Airbag
- * 7 : Bench Seat
- * 8 : Except Double Cab



The diagram illustrates the electrical system for the front passenger side, centered around the O10 Occupant Classification ECU. The ECU has multiple pins for power, ground, and sensor inputs. Key components and their connections include:

- Power and Ground:**
 - Power:** O(=7) (Pin 11), P(=7) (Pin 12), G-B(=7) (Pin 1), and G-R(=7) (Pin 9) are connected to the ECU's power pins.
 - Ground:** GND (Pin 5), DIA (Pin 10), SP (Pin 4), GSP (Pin 3), BSW (Pin 13), BGND (Pin 14), PS (Pin 6), GPS (Pin 15), and VPS (Pin 7) are connected to the ECU's ground pins.
- Sensors and Actuators:**
 - S29 Seat Belt Tension Sensor:** Connected to pins 3 (GBT), 2 (VBT), and 1 (BT) of the ECU. It includes a circuit diagram showing a voltage divider with a variable resistor (VBT) and two fixed resistors (GBT, BT).
 - S28 Side Position Airbag Sensor (Front Passenger's Side):** Connected to pins 2 (GR) and 1 (L) of the ECU. It includes a circuit diagram showing a voltage divider with a variable resistor (L) and two fixed resistors (GR, L).
 - F24 Front Seat Inner Belt (Front Passenger's Side):** Connected to pins 2 (B) and 1 (P-G) of the ECU. It includes a circuit diagram showing a voltage divider with a variable resistor (P-G) and two fixed resistors (B, P-G).
 - O11 Occupant Classification Sensor:** Connected to pins 6 (R-B), 15 (L-G-B), and 7 (L-W) of the ECU. It includes a circuit diagram showing a voltage divider with a variable resistor (L-W) and two fixed resistors (R-B, L-G-B).
- Connectors and Junctions:**
 - J14 Junction Connector:** Connects the ECU's power and ground lines to the rest of the vehicle's wiring.
 - J13 Junction Connector:** Connects the ECU's power and ground lines to the rest of the vehicle's wiring.
 - IE Right Kick Panel:** Connected to the ECU's power and ground lines.

(Cont. next page)

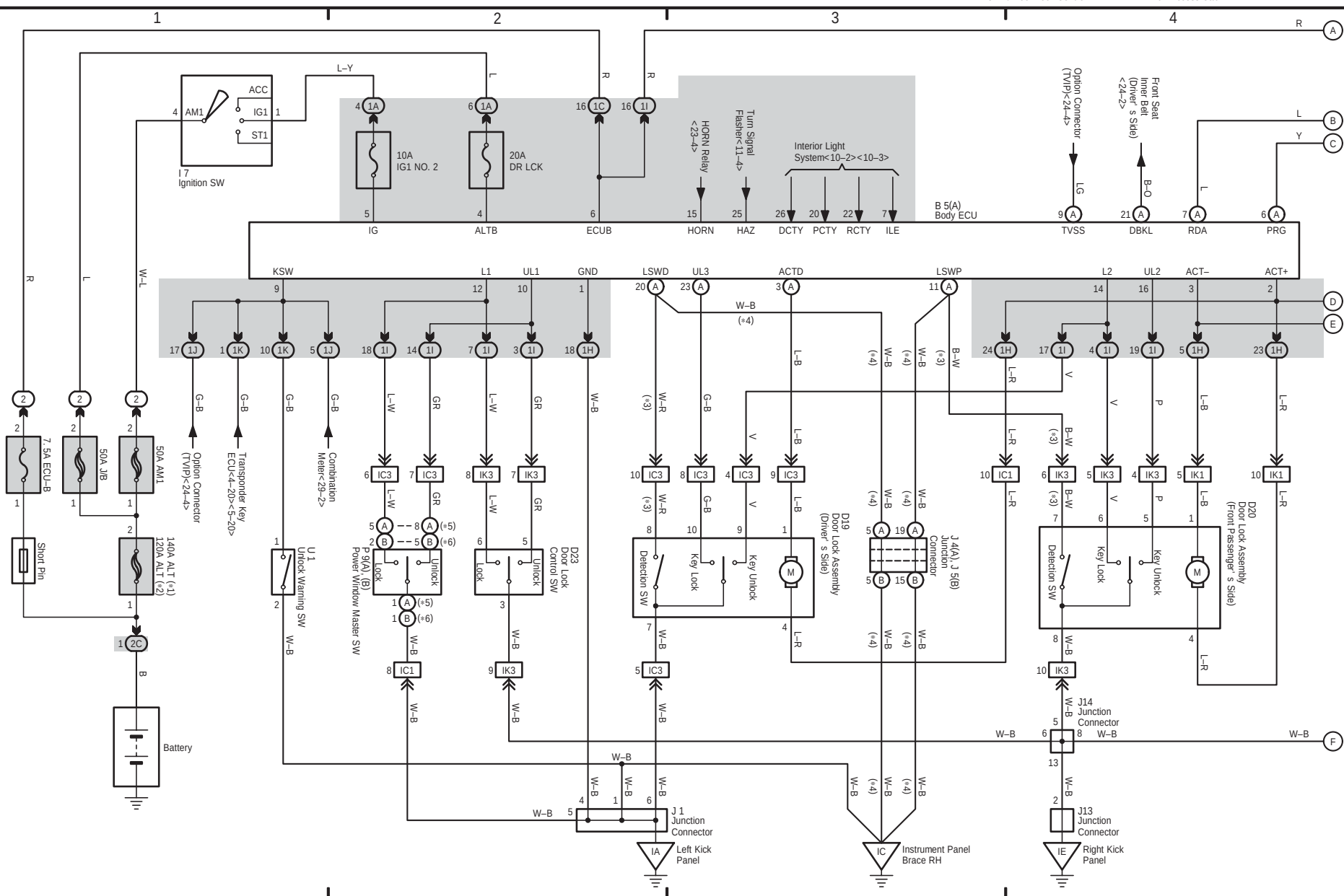
17 TOYOTA TACOMA

Power Source

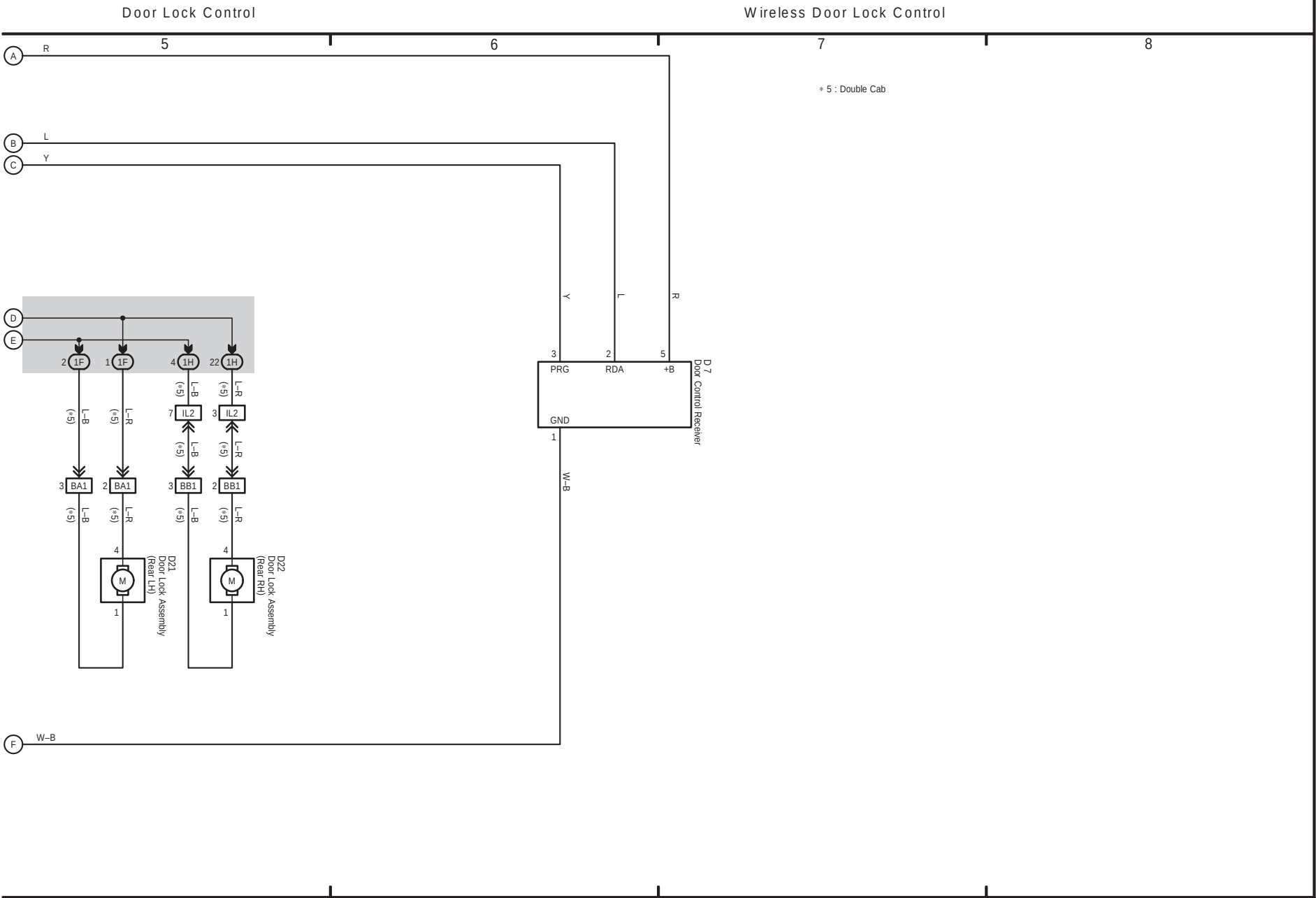
Door Lock Control

- * 1 : w/ Trailer Towing
- * 2 : w/o Trailer Towing
- * 3 : w/ Door Lock Control

- * 4 : w/o Door Lock Control
- * 5 : Double Cab
- * 6 : Access Cab



17 TOYOTA TACOMA (Cont' d)

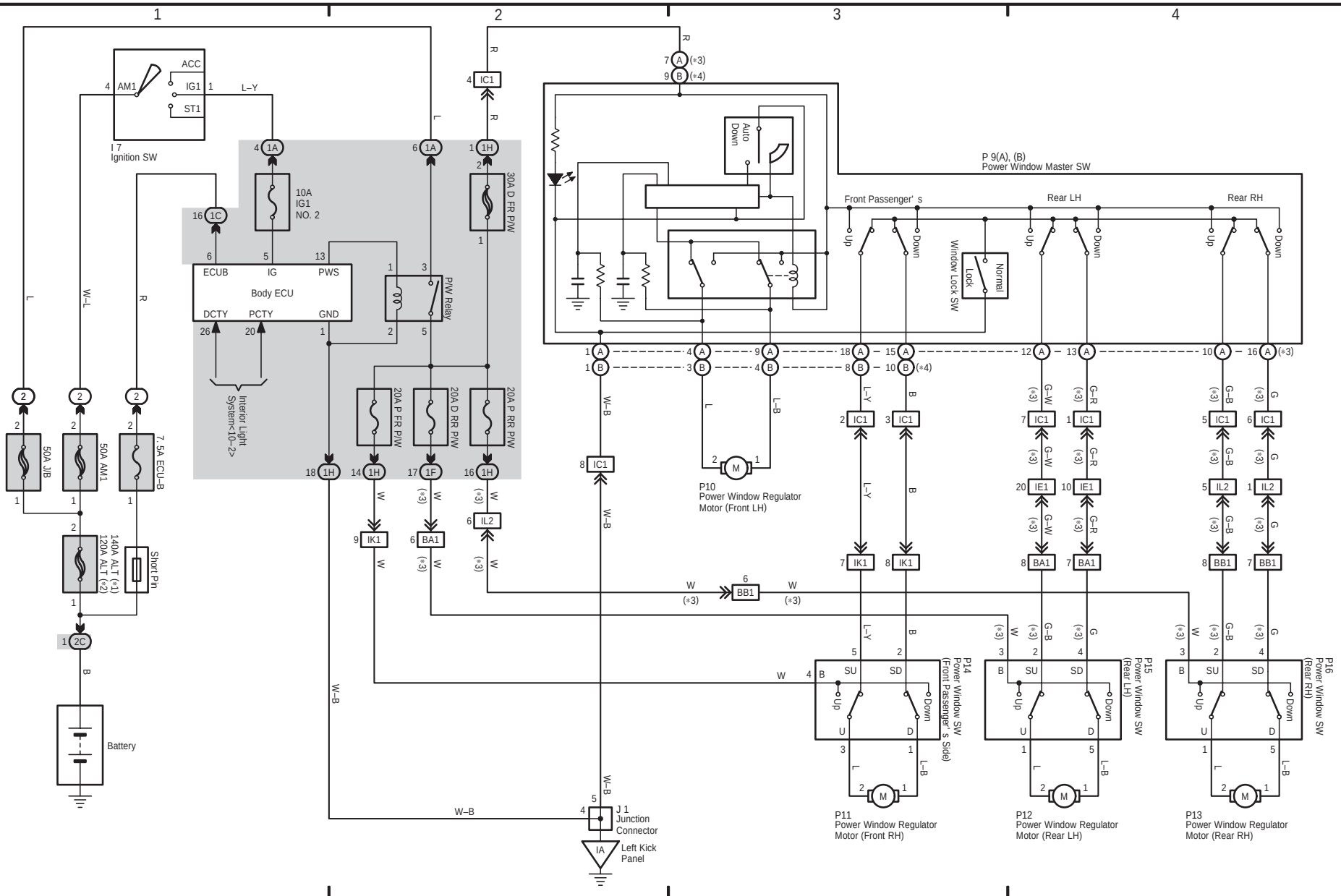


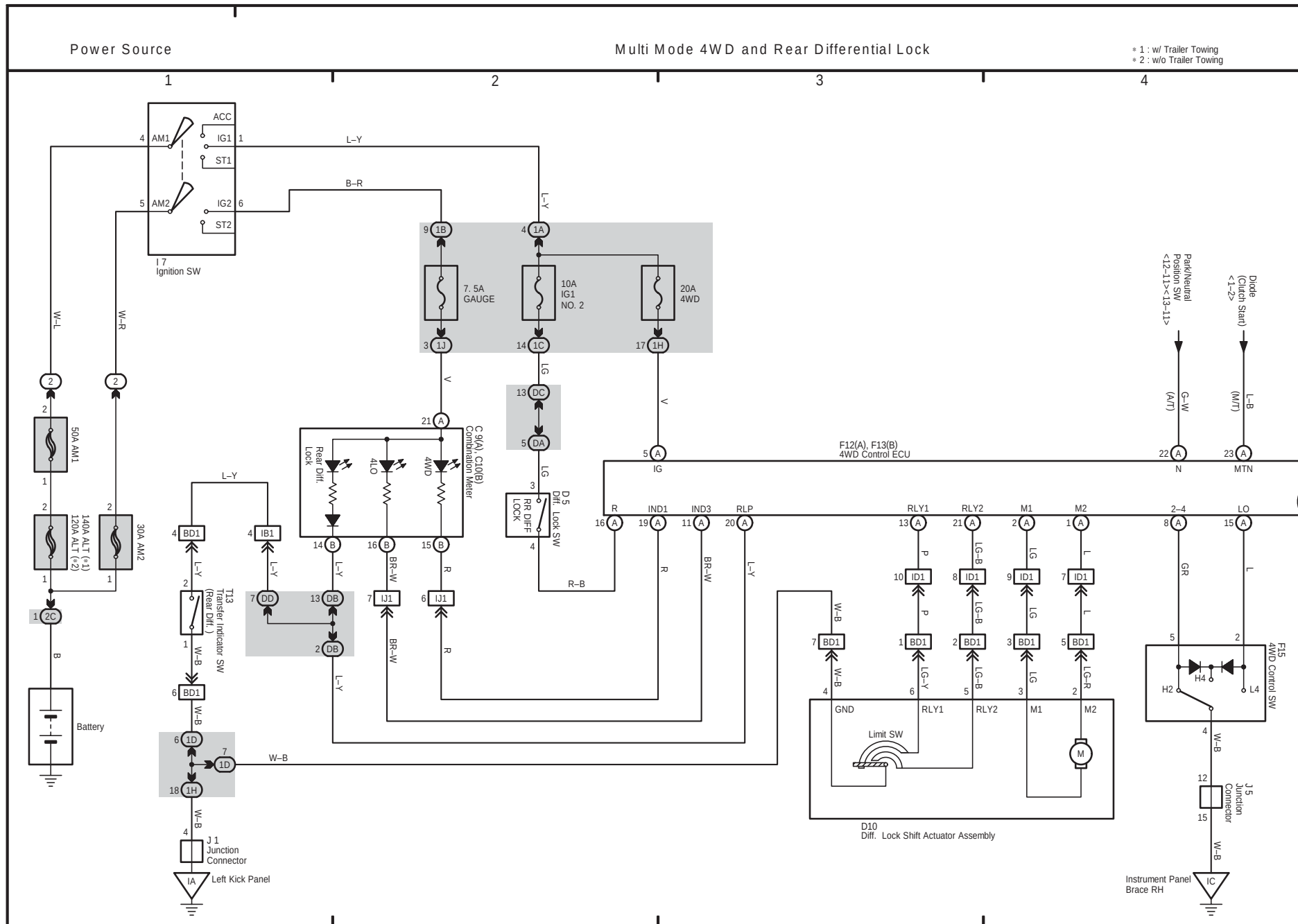
TOYOTA TACOMA (EM01D0U)

- * 1 : w/ Trailer Towing
- * 2 : w/o Trailer Towing
- * 3 : Double Cab
- * 4 : Access Cab

Power Source

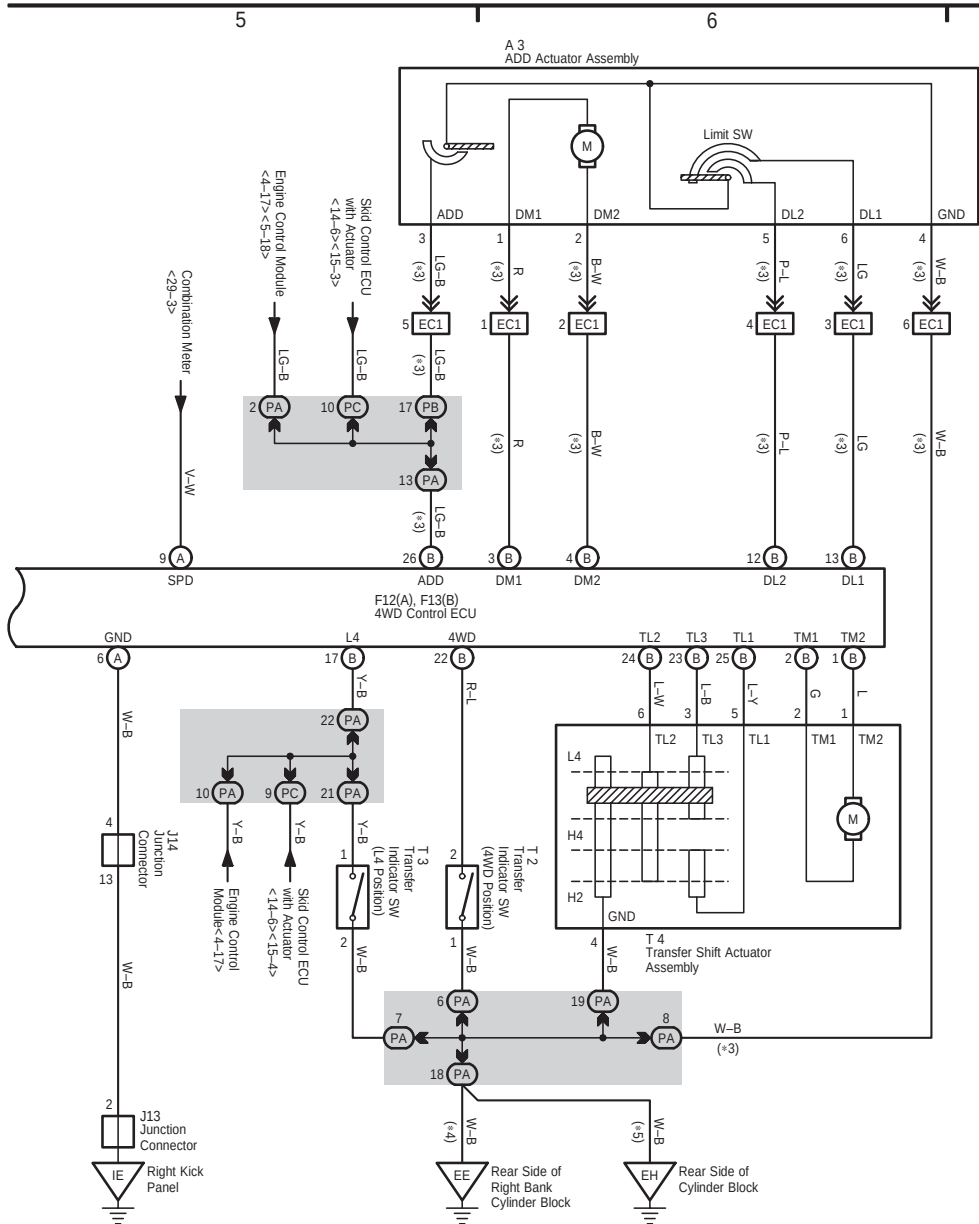
Power Window



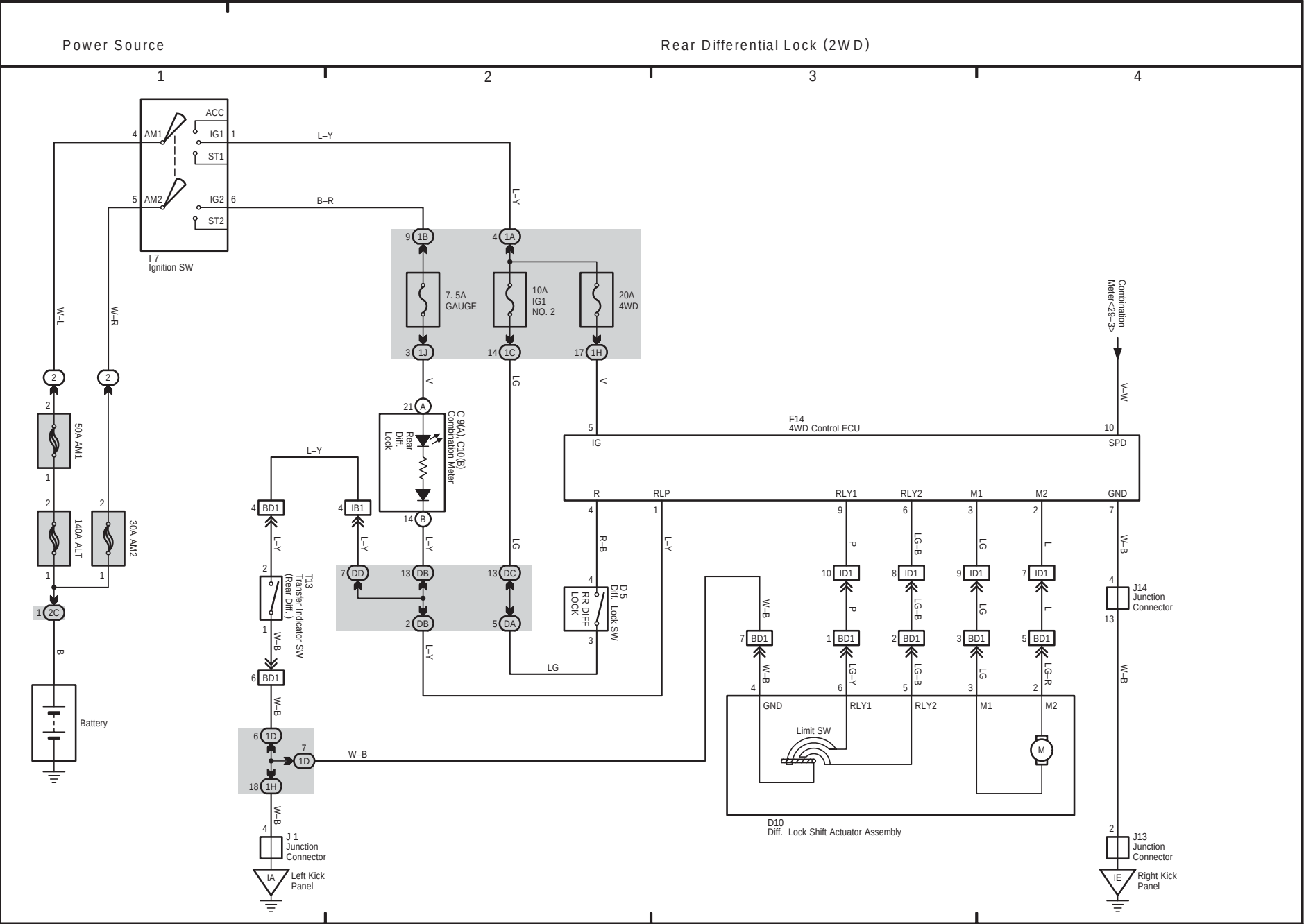


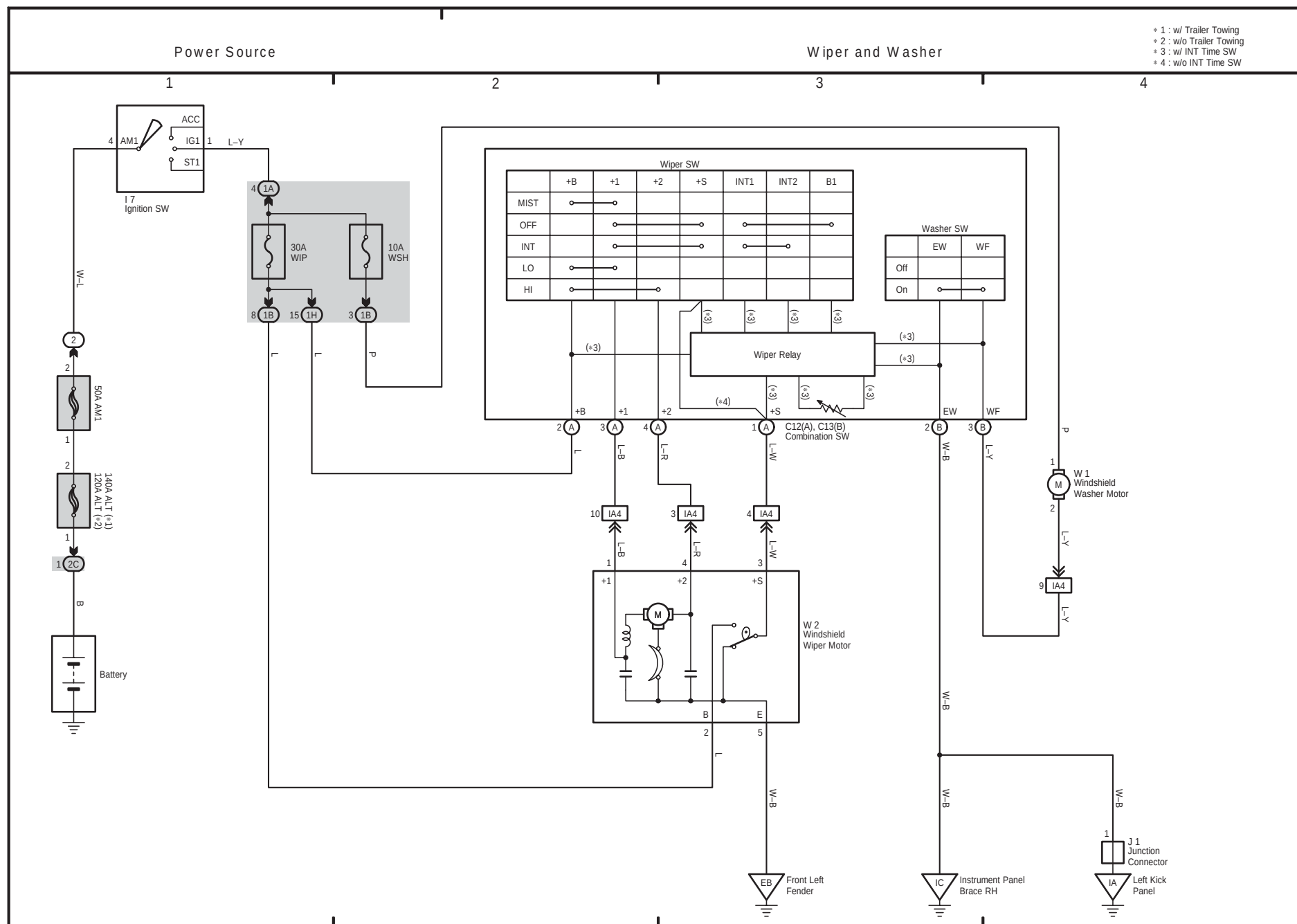
Multi Mode 4WD and Rear Differential Lock

* 3 : w/ ADD
* 4 : 1GR-FE
* 5 : 2TR-FE



20 TOYOTA TACOMA



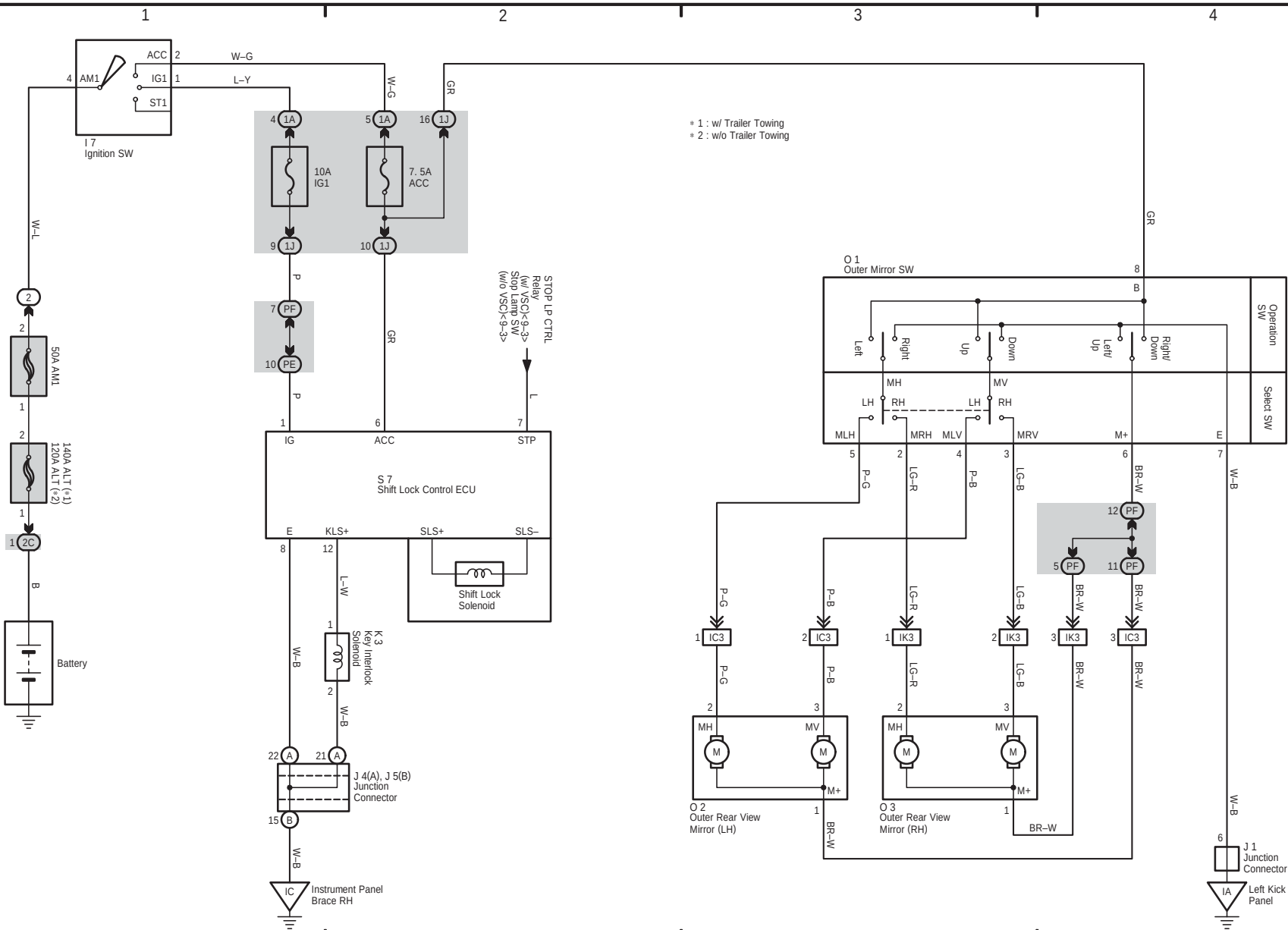


22 TOYOTA TACOMA

Power Source

Shift Lock

Remote Control Mirror

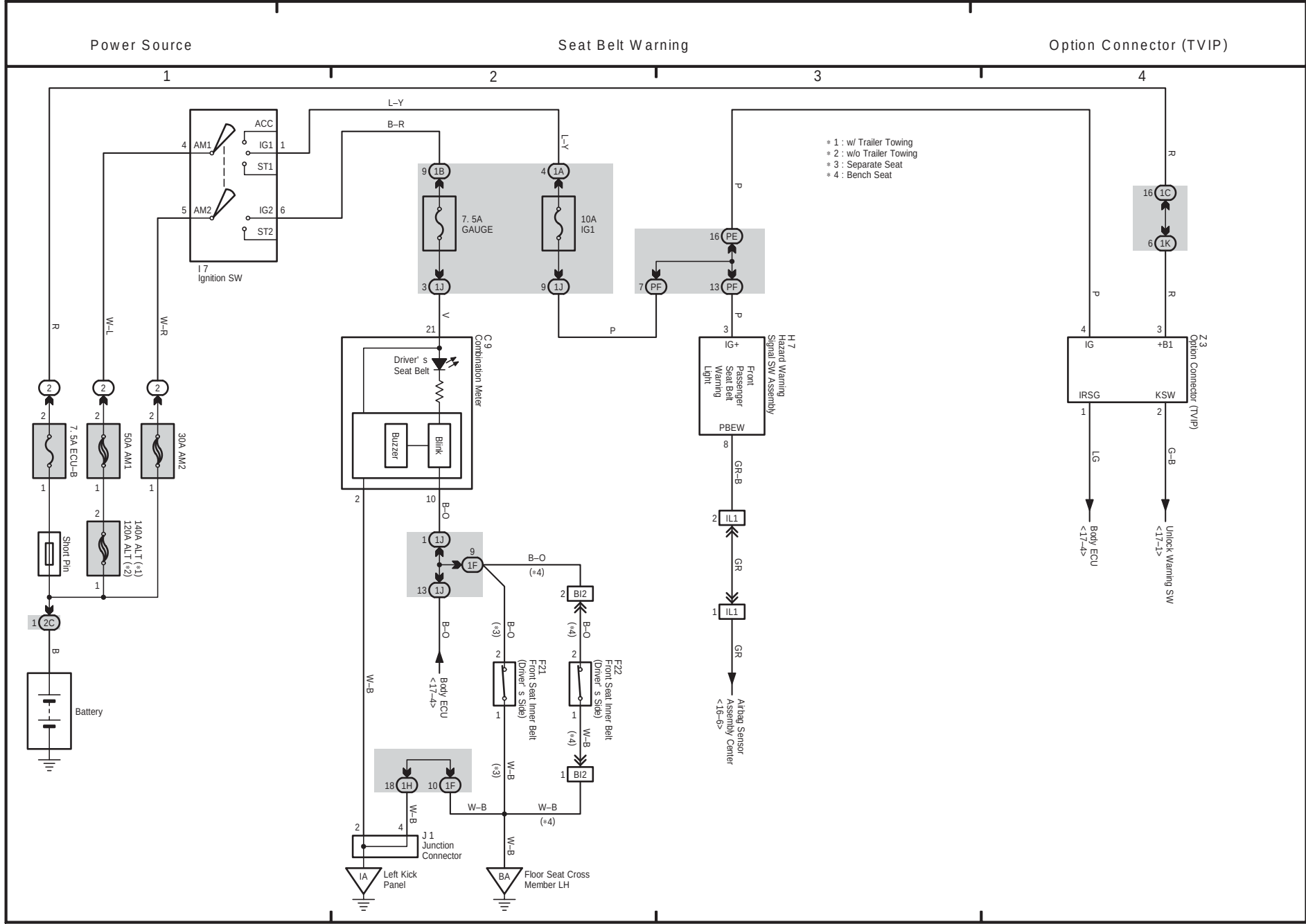


TOYOTA TACOMA (EM01D0U)



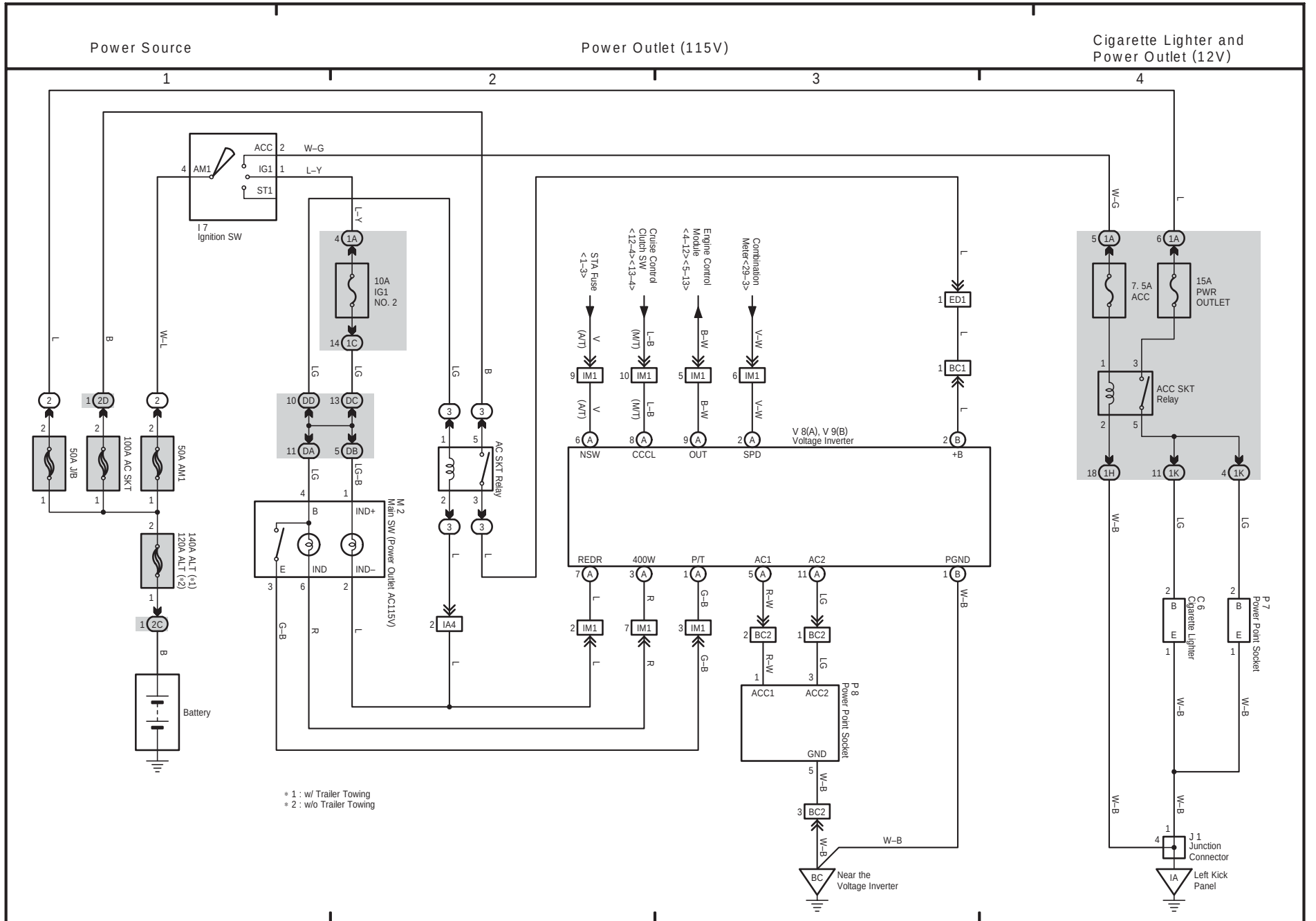
M OVERALL ELECTRICAL WIRING DIAGRAM

24 TOYOTA TACOMA

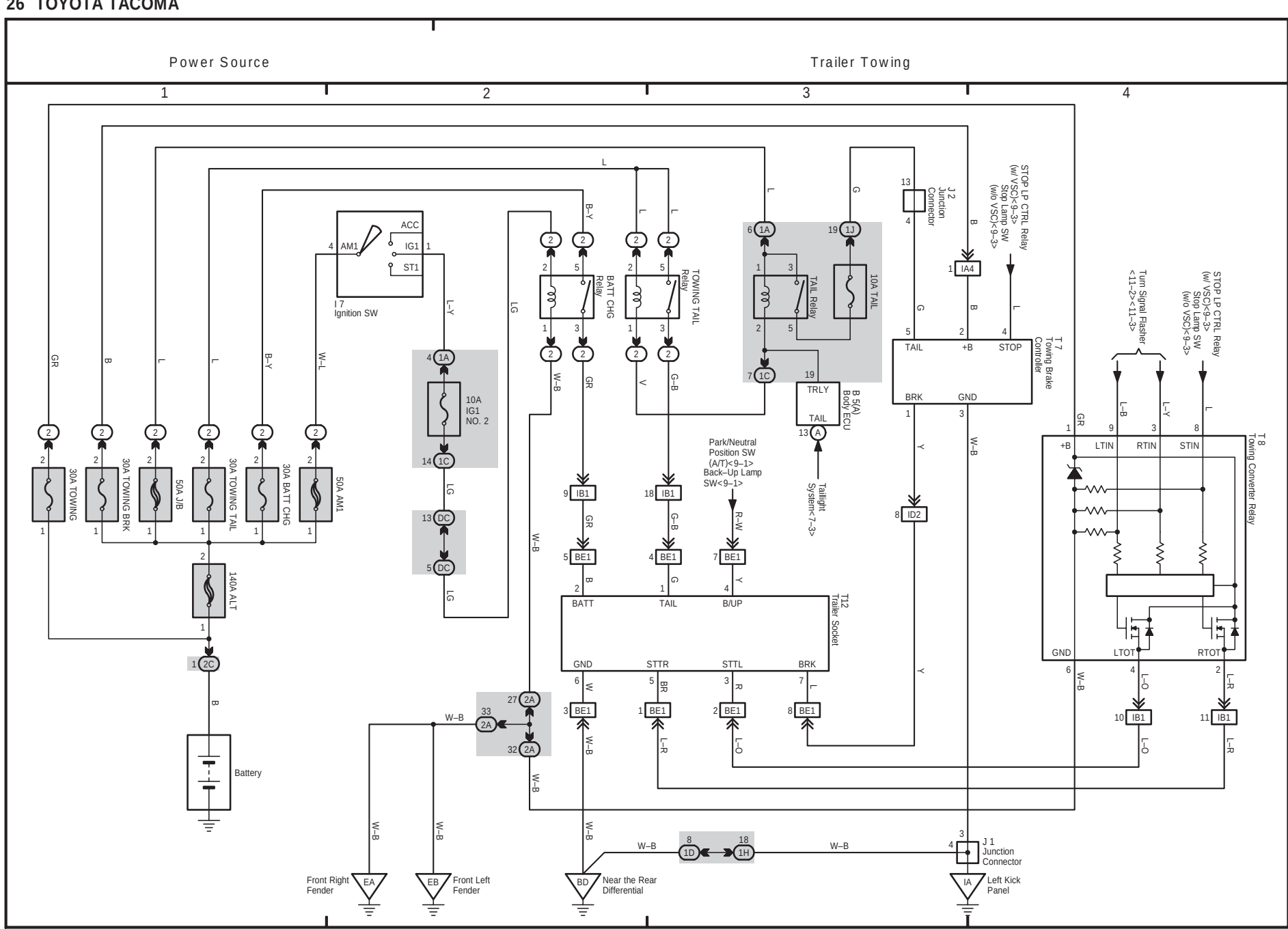


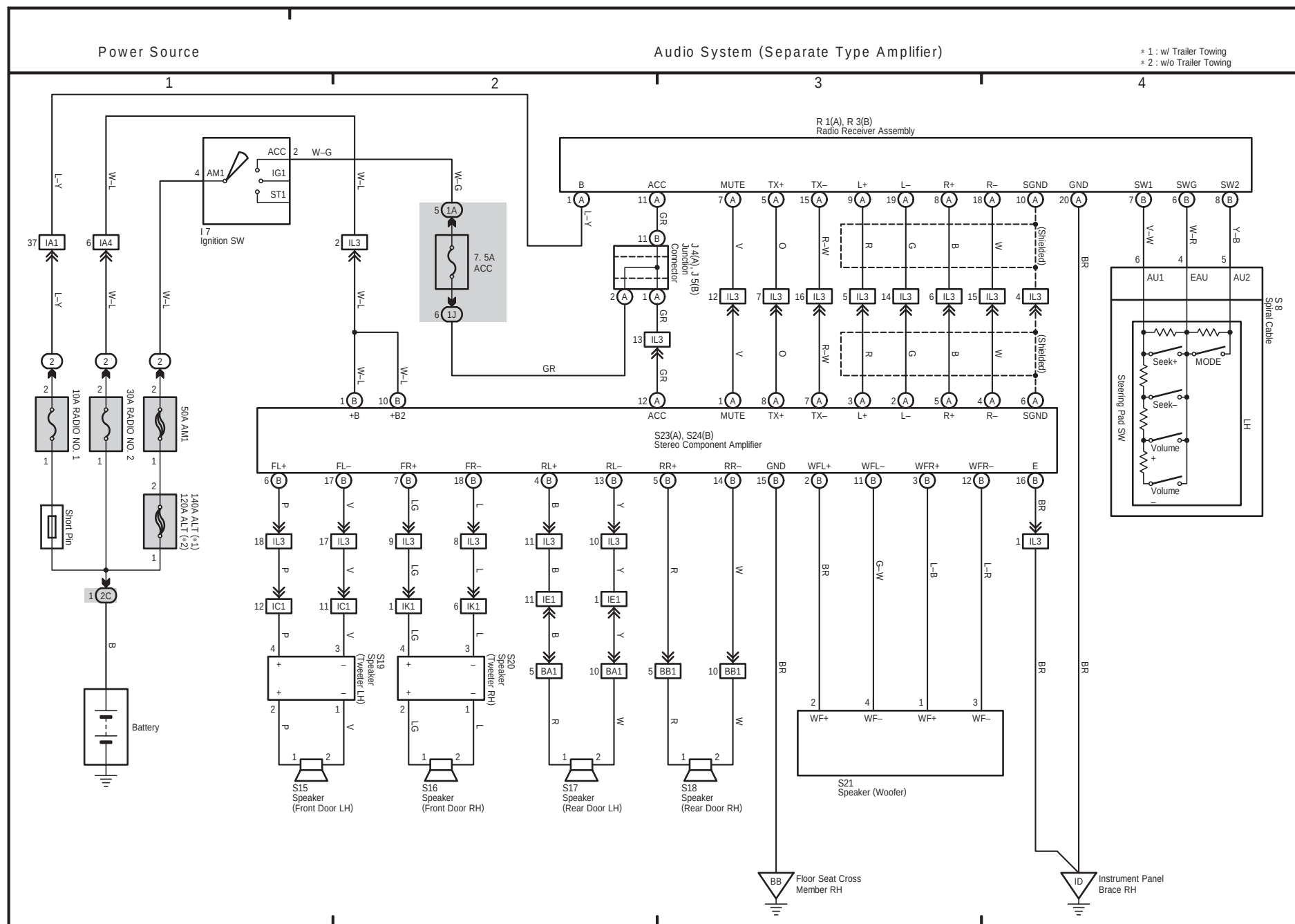
25 TOYOTA TACOMA

TOYOTA TACOMA (EM01D0U)



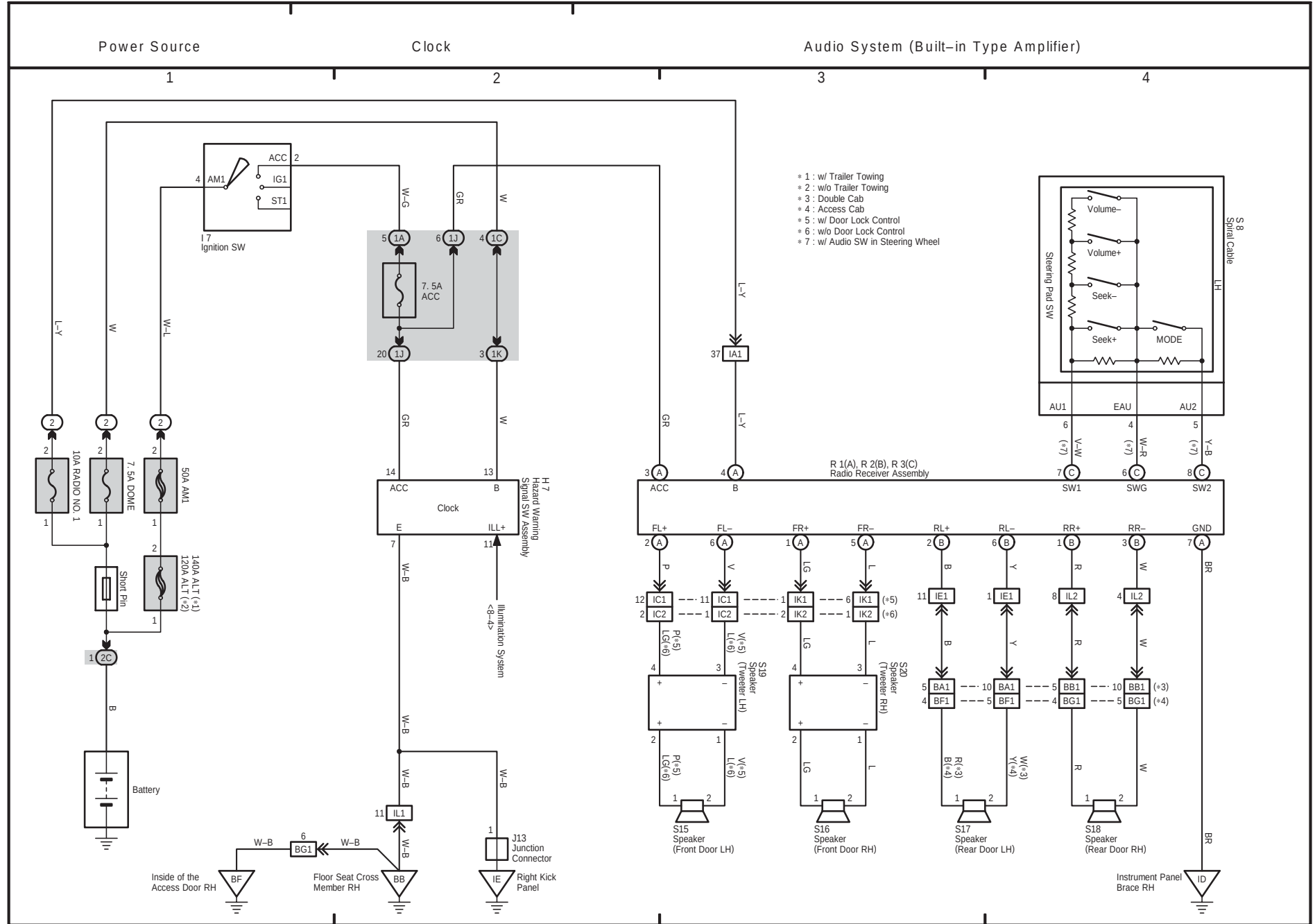
OVERALL ELECTRICAL WIRING DIAGRAM

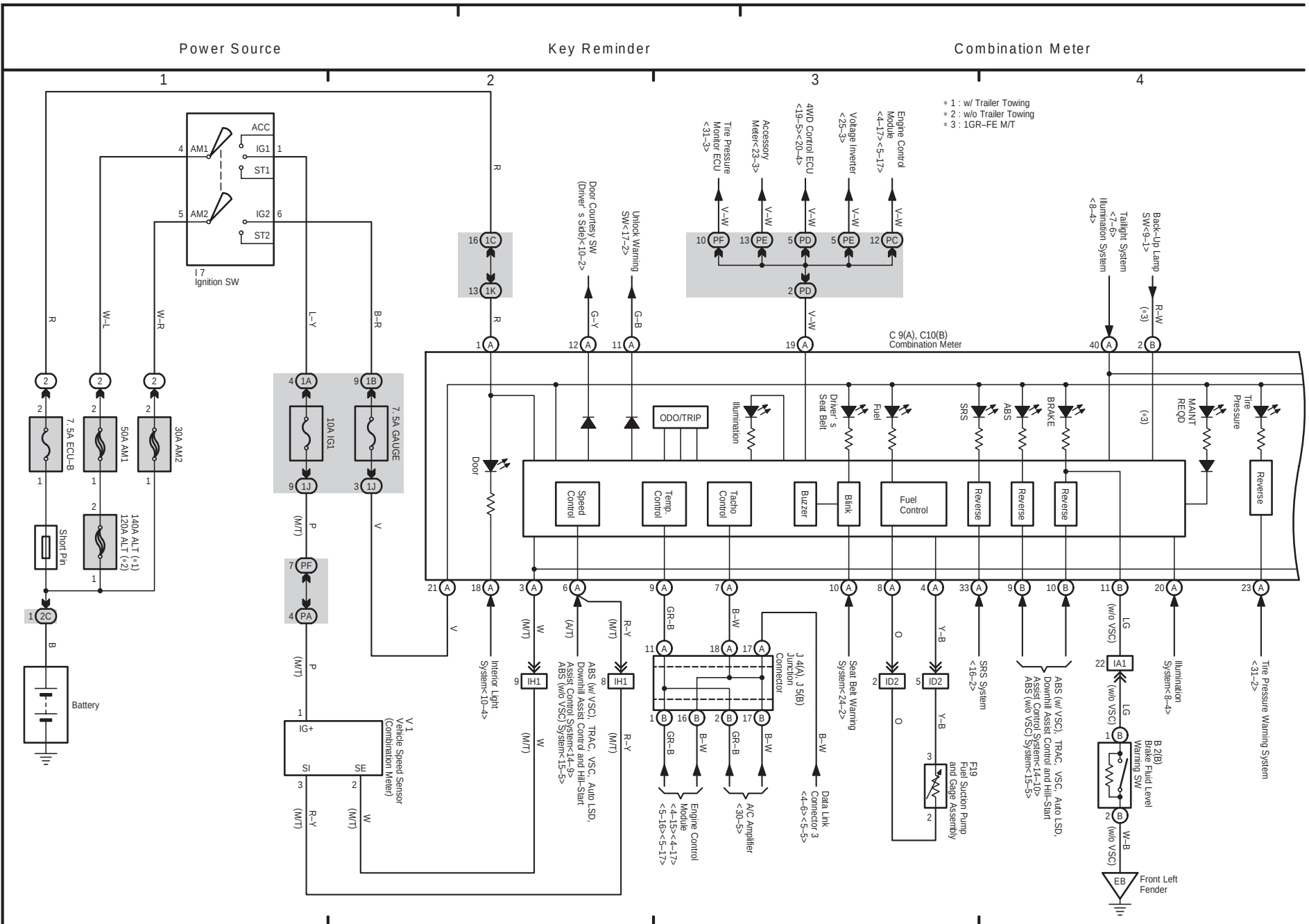


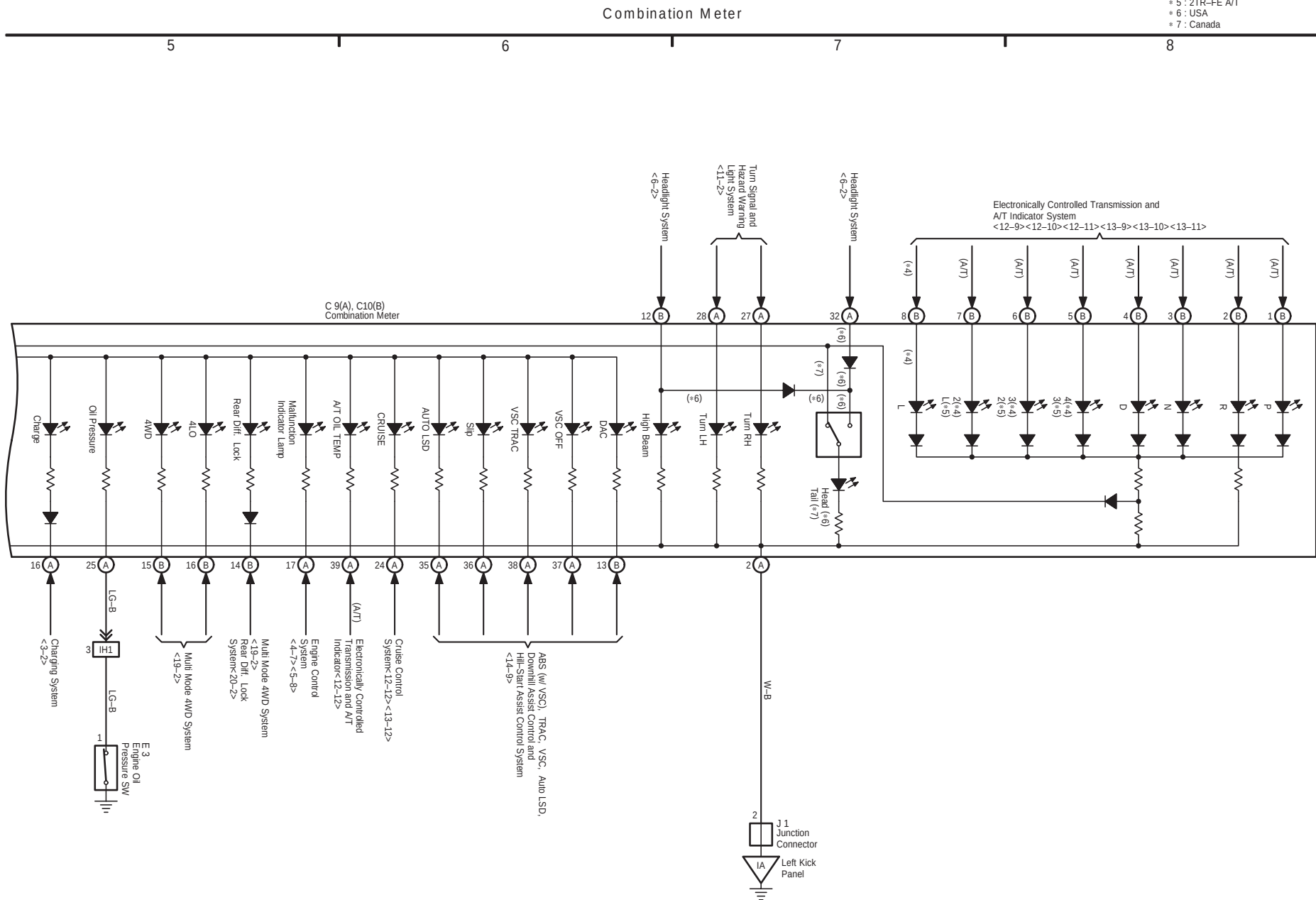


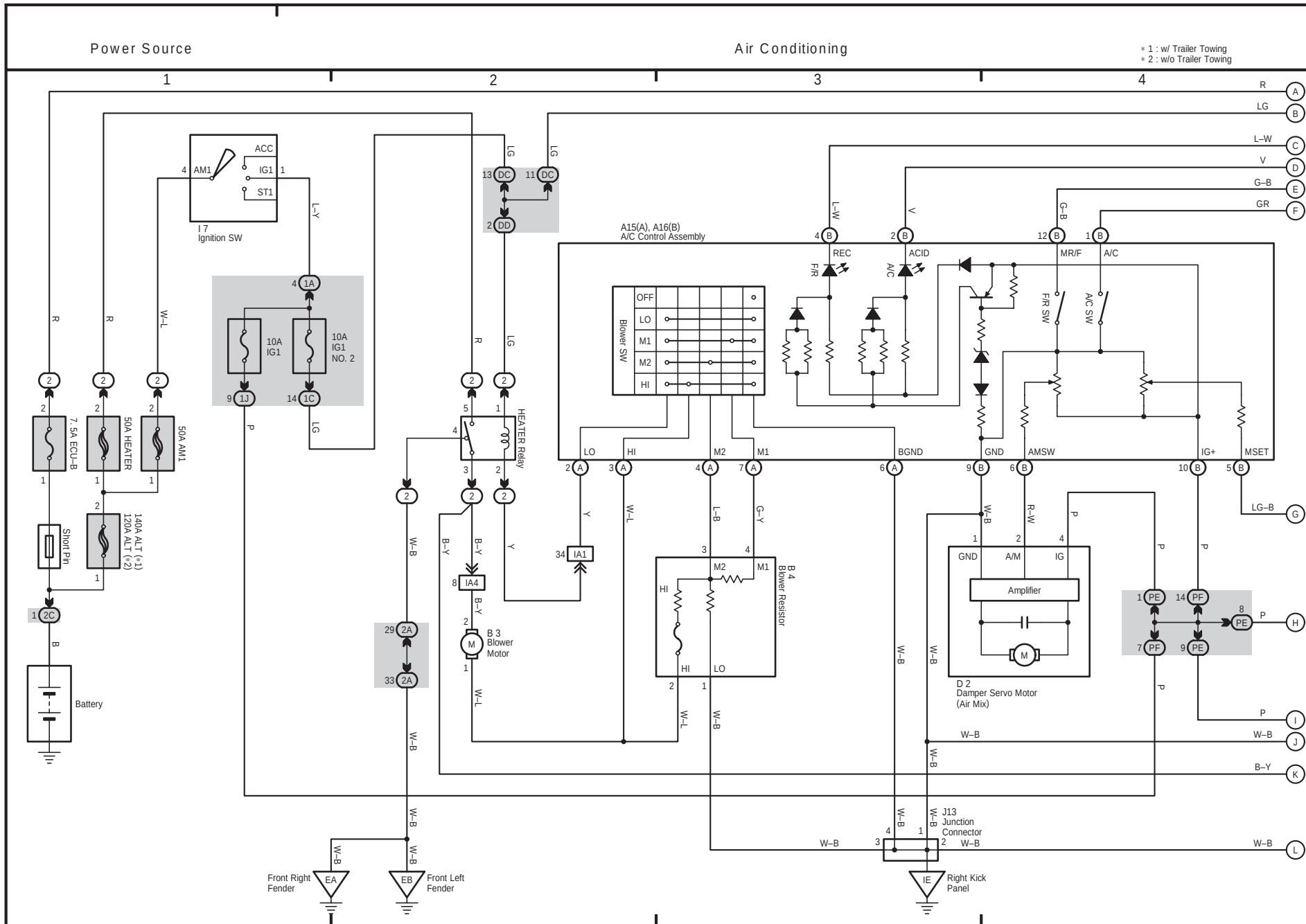
28 TOYOTA TACOMA

M OVERALL ELECTRICAL WIRING DIAGRAM

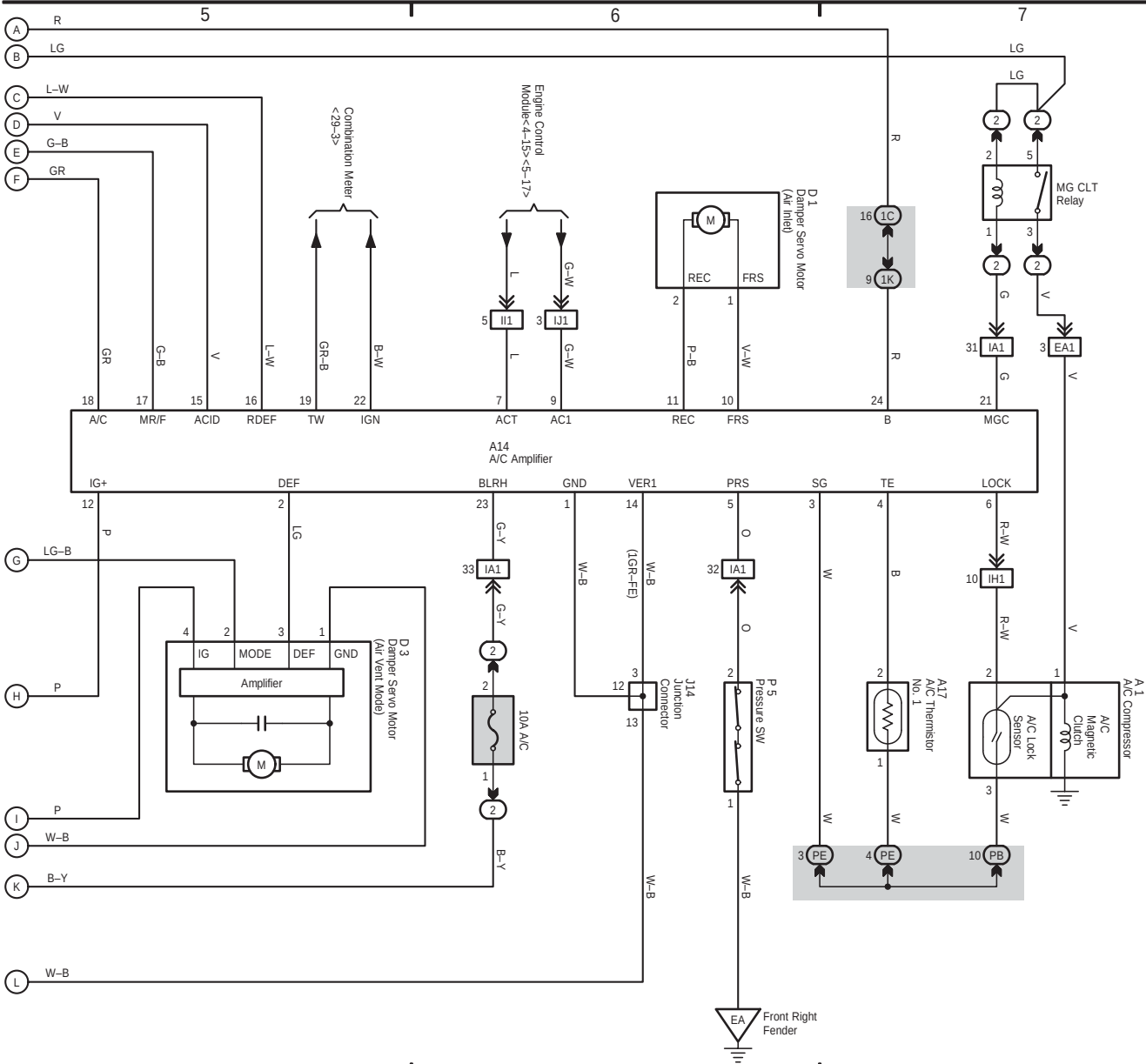




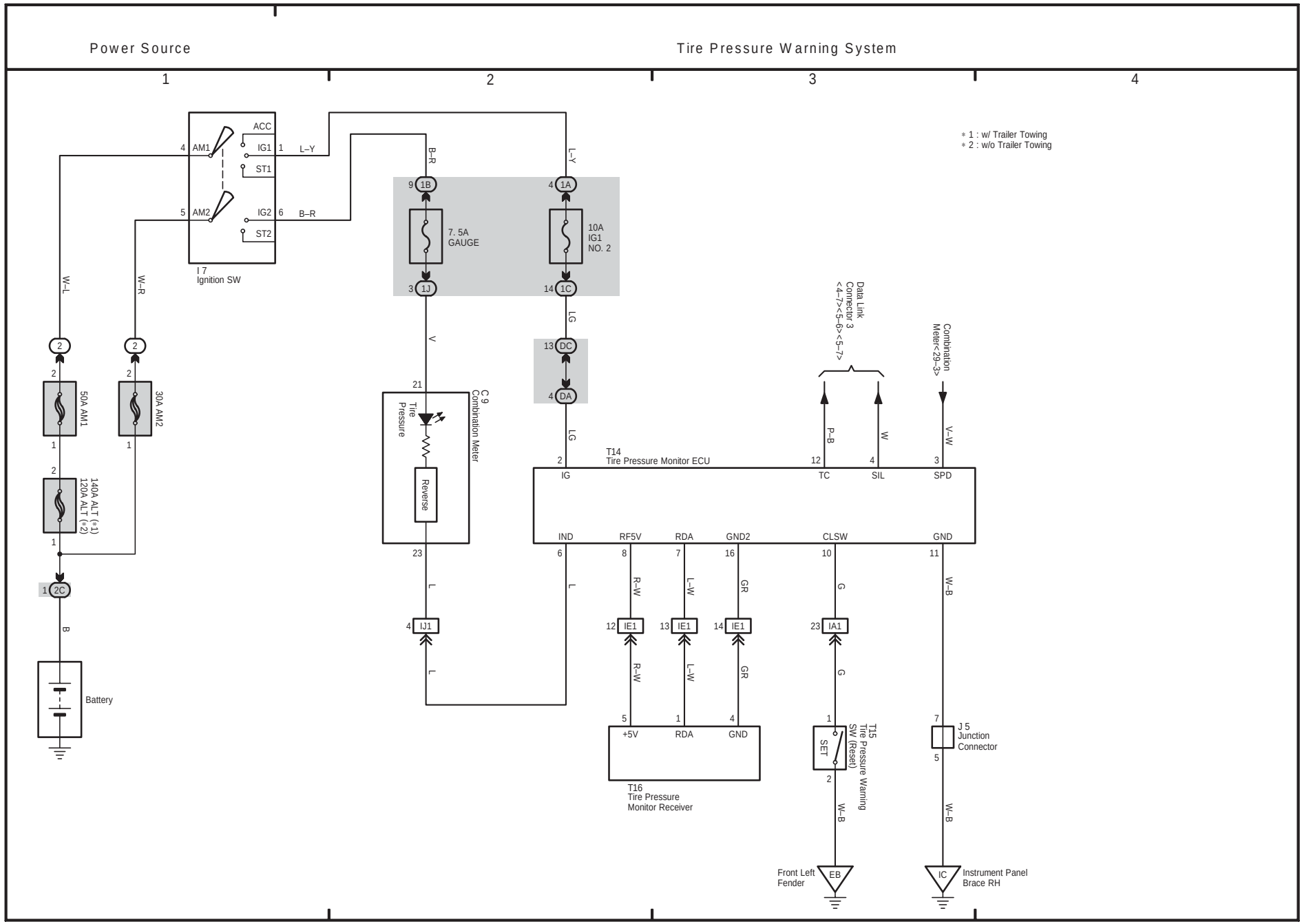




Air Conditioning



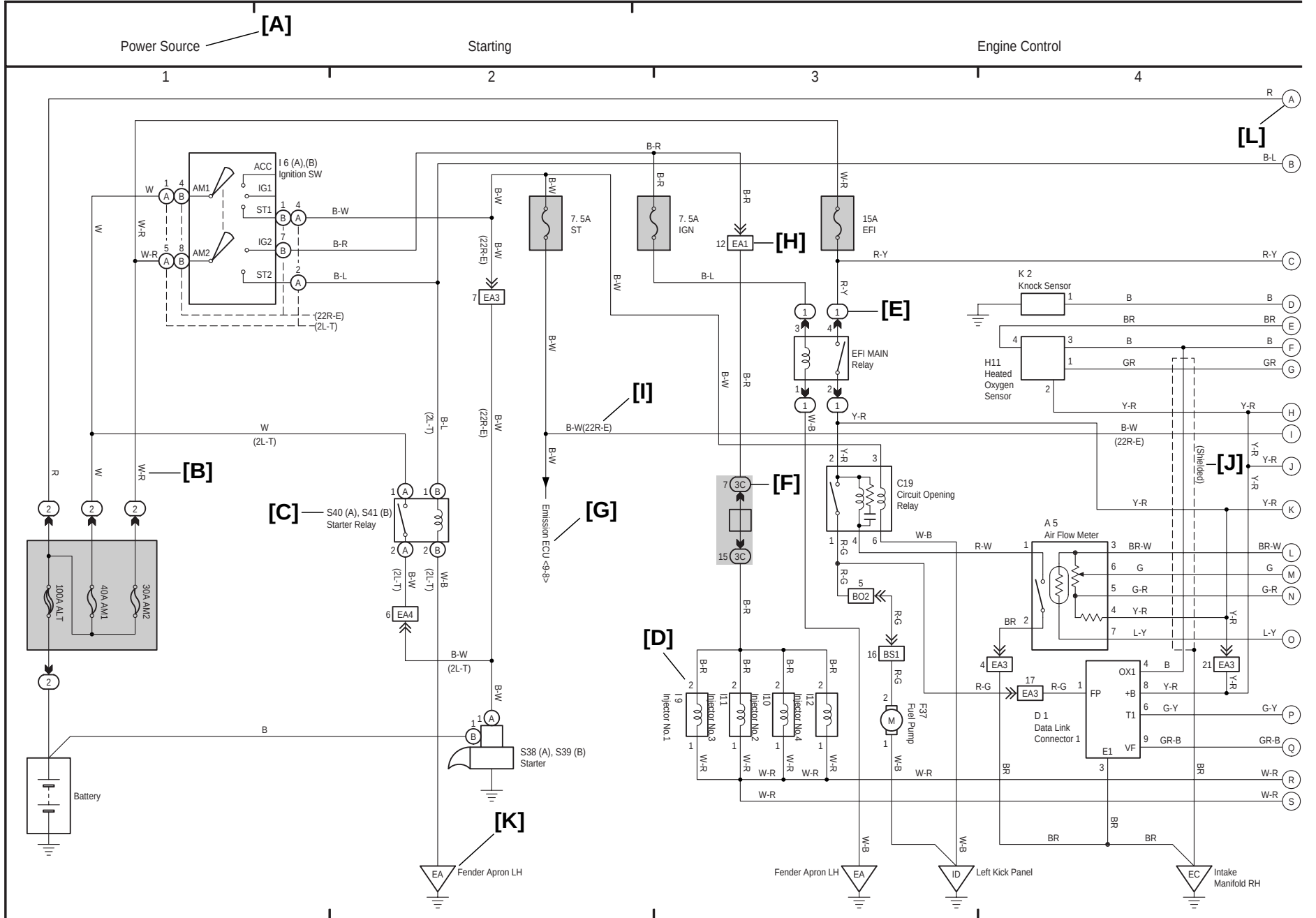
31 TOYOTA TACOMA



HOW TO READ THIS SECTION

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

M OVERALL ELECTRICAL WIRING DIAGRAM



[A] : System Title

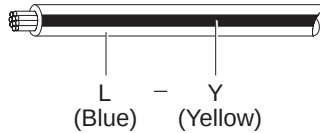
[B] : Indicates the wiring color.

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

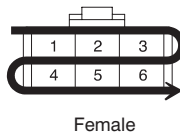


[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

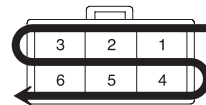
[D] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



Female



Male

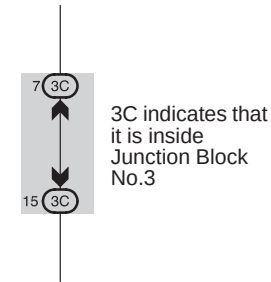
The numbering system for the overall wiring diagram is the same as above

[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

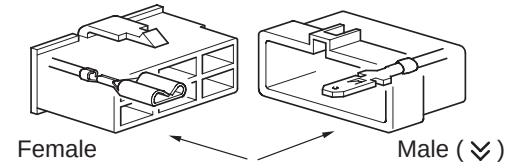
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

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)	14-3	Illumination	8-2
ABS (w/o VSC)	15-2	Interior Light	10-3
Accessory Meter	23-3	Key Reminder	29-2
Air Conditioning	30-2	Light Auto Turn Off System	10-2
Audio System (Built-in Type Amplifier)	28-3	Multi Mode 4WD	19-2
Audio System (Separate Type Amplifier)	27-2	Multiplex Communication System (CAN)	14-11
Auto LSD	14-3	Option Connector (Trailer Towing)	7-2
Automatic Glare-Resistant EC Mirror	23-2	Option Connector (TVIP)	24-4
Back-Up Light	9-2	Power Outlet (115V)	25-2
Charging	3-2	Power Outlet (12V)	25-4
Cigarette Lighter	25-4	Power Source	1-31-1
Clock	28-2	Power Window	18-2
Combination Meter	29-3	Rear Differential Lock (2WD)	20-2
Cruise Control (1GR-FE)	12-3	Rear Differential Lock (4WD)	19-2
Cruise Control (2TR-FE)	13-3	Remote Control Mirror	22-3
Door Lock Control	17-2	Seat Belt Warning	24-2
Downhill Assist Control	14-3	Shift Lock	22-2
Electronically Controlled Transmission and A/T Indicator (1GR-FE)	12-5	SRS	16-2
Electronically Controlled Transmission and A/T Indicator (2TR-FE)	13-5	Starting	1-2
Engine Control (1GR-FE)	4-3	Stop Light	9-3
Engine Control (2TR-FE)	5-3	Taillight	7-3
Engine Immobiliser System (1GR-FE)	4-19	Tire Pressure Warning System	31-2
Engine Immobiliser System (2TR-FE)	5-19	TRAC	14-3
Front Fog Light	6-4	Trailer Towing	26-2
Headlight	6-2	Turn Signal and Hazard Warning Light	11-2
Hill-Start Assist Control	14-3	VSC	14-3
Horn	23-4	Wiper and Washer	21-2
Ignition	2-2	Wireless Door Lock Control	17-6