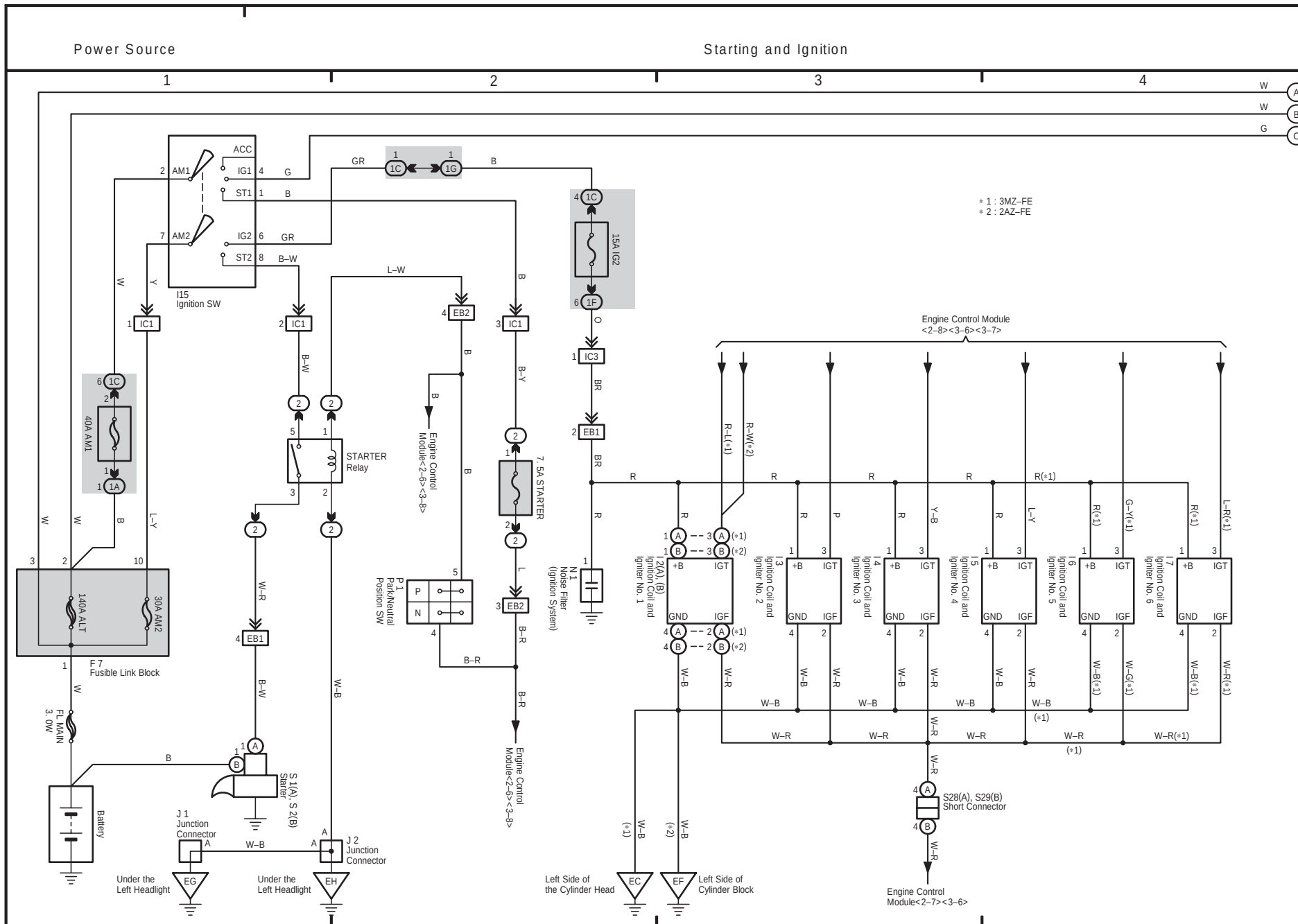
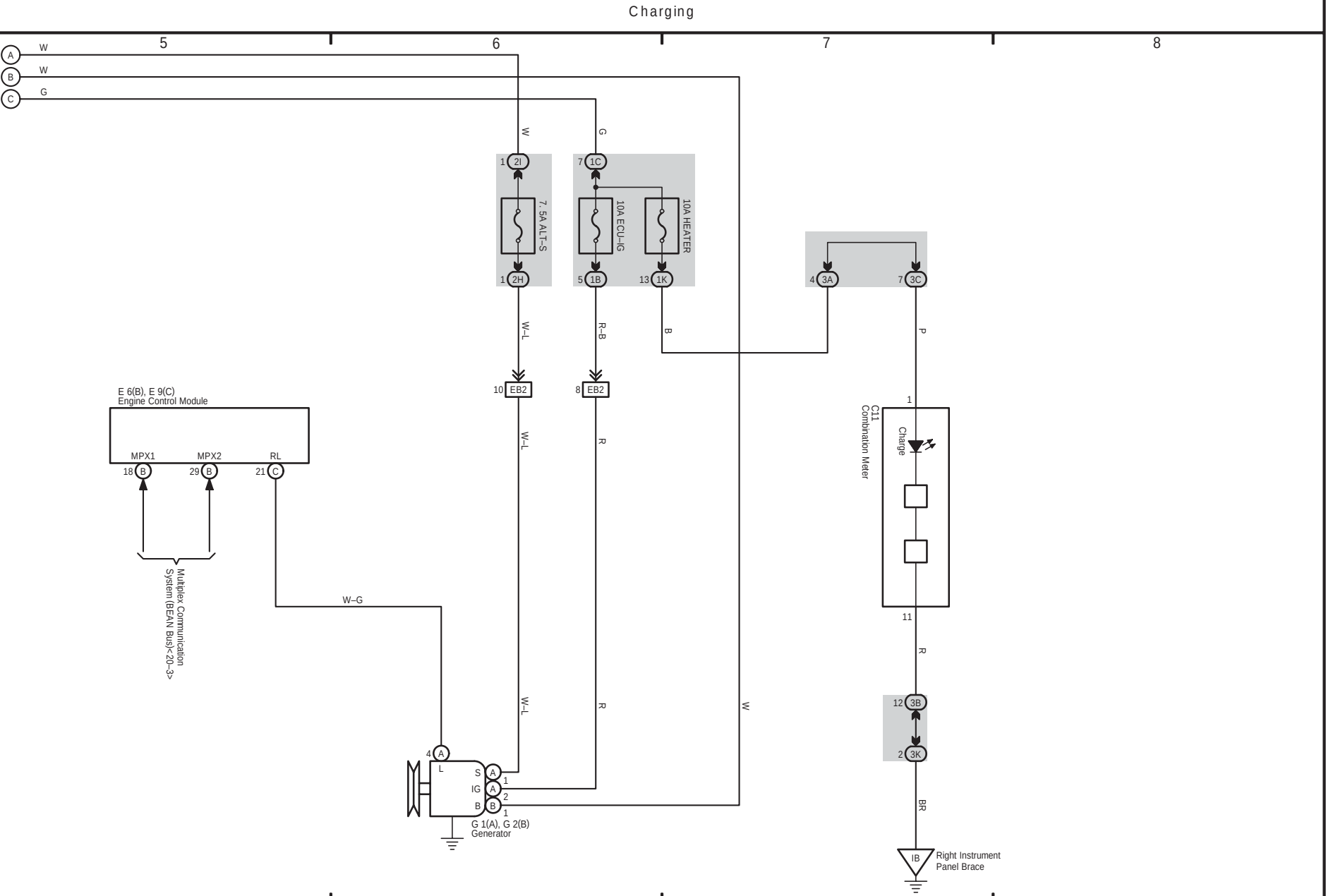




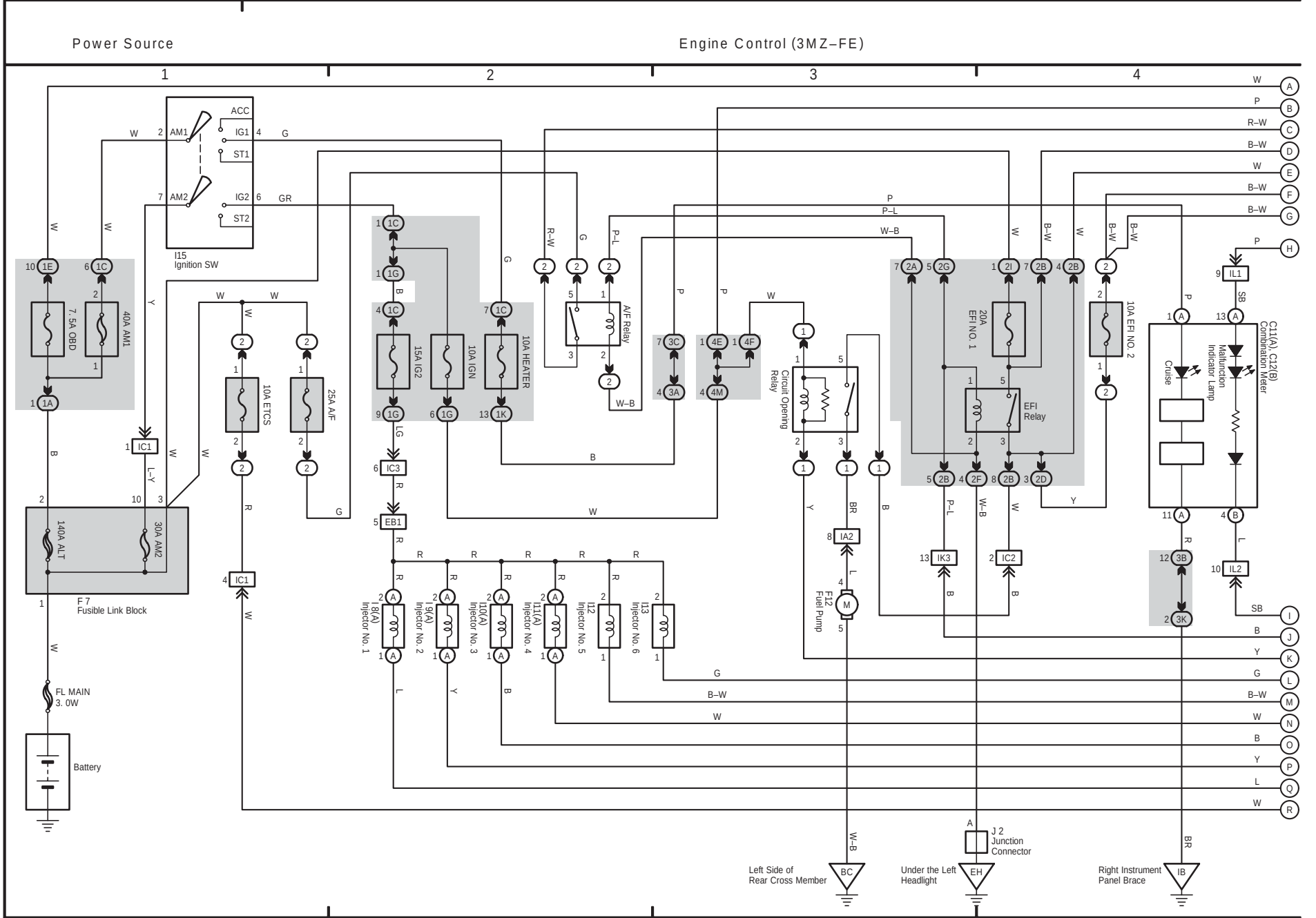
1 HIGHLANDER (Cont' d)



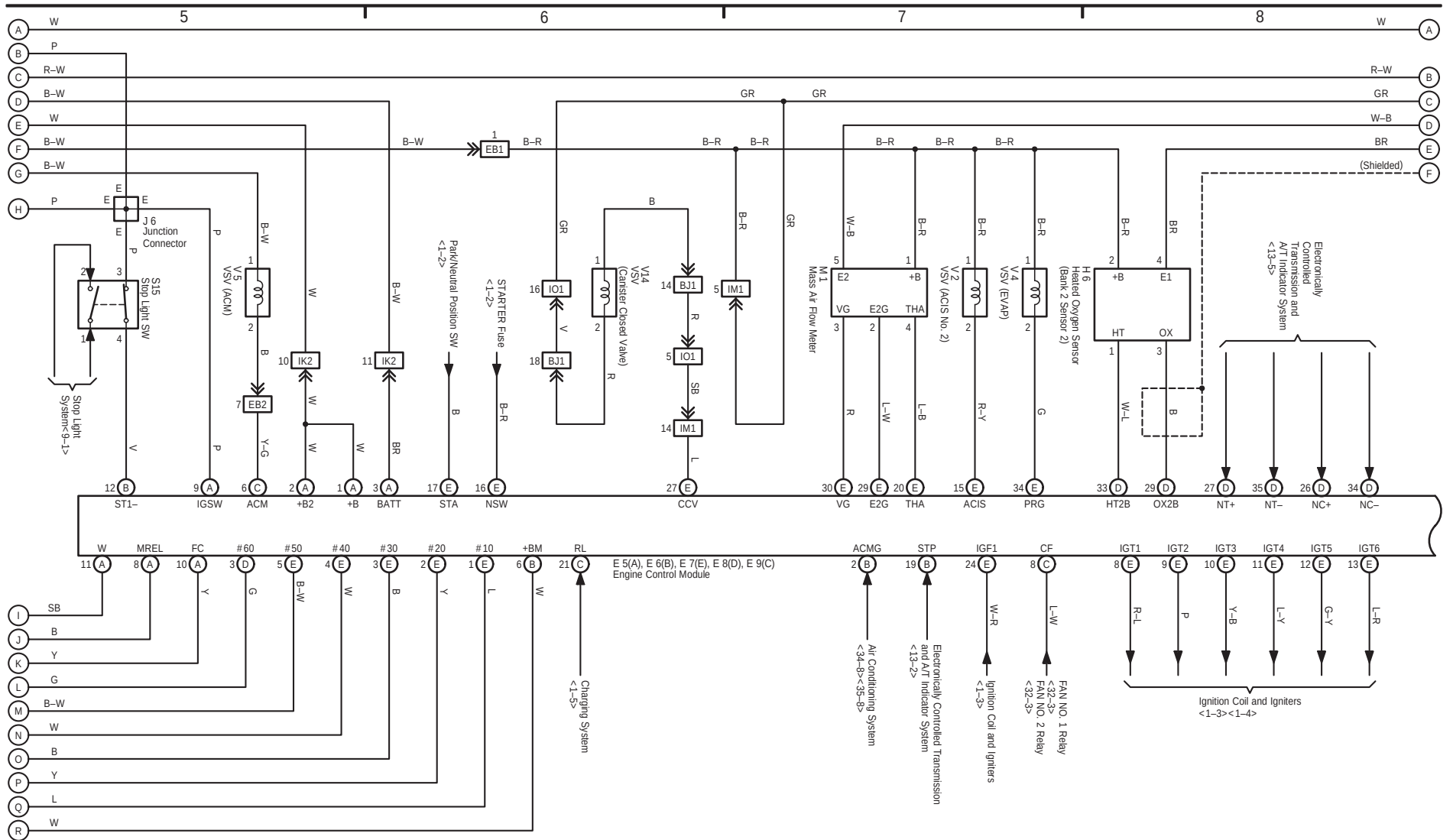
2 HIGHLANDER

(Cont. next page)

OVERALL ELECTRICAL WIRING DIAGRAM

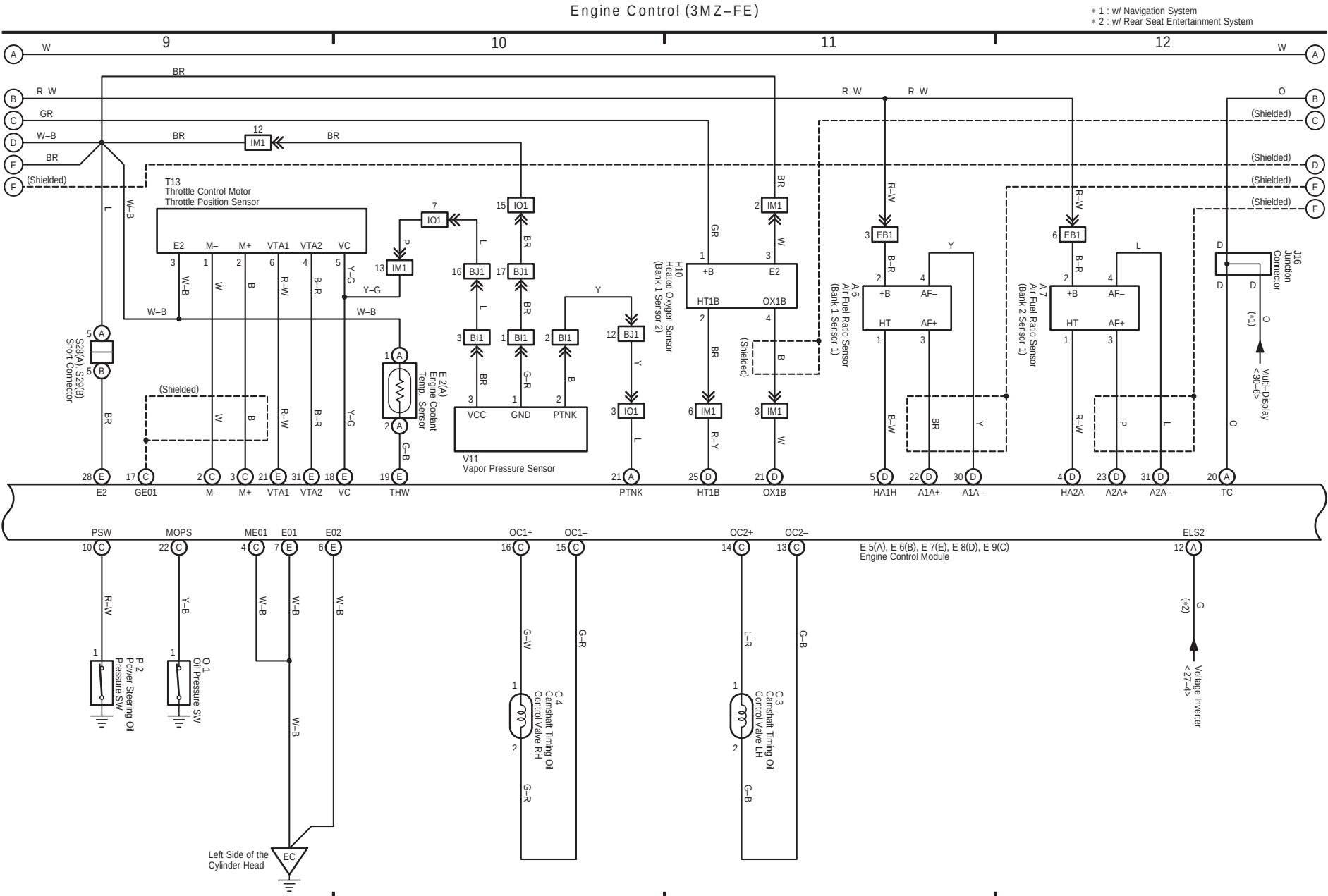


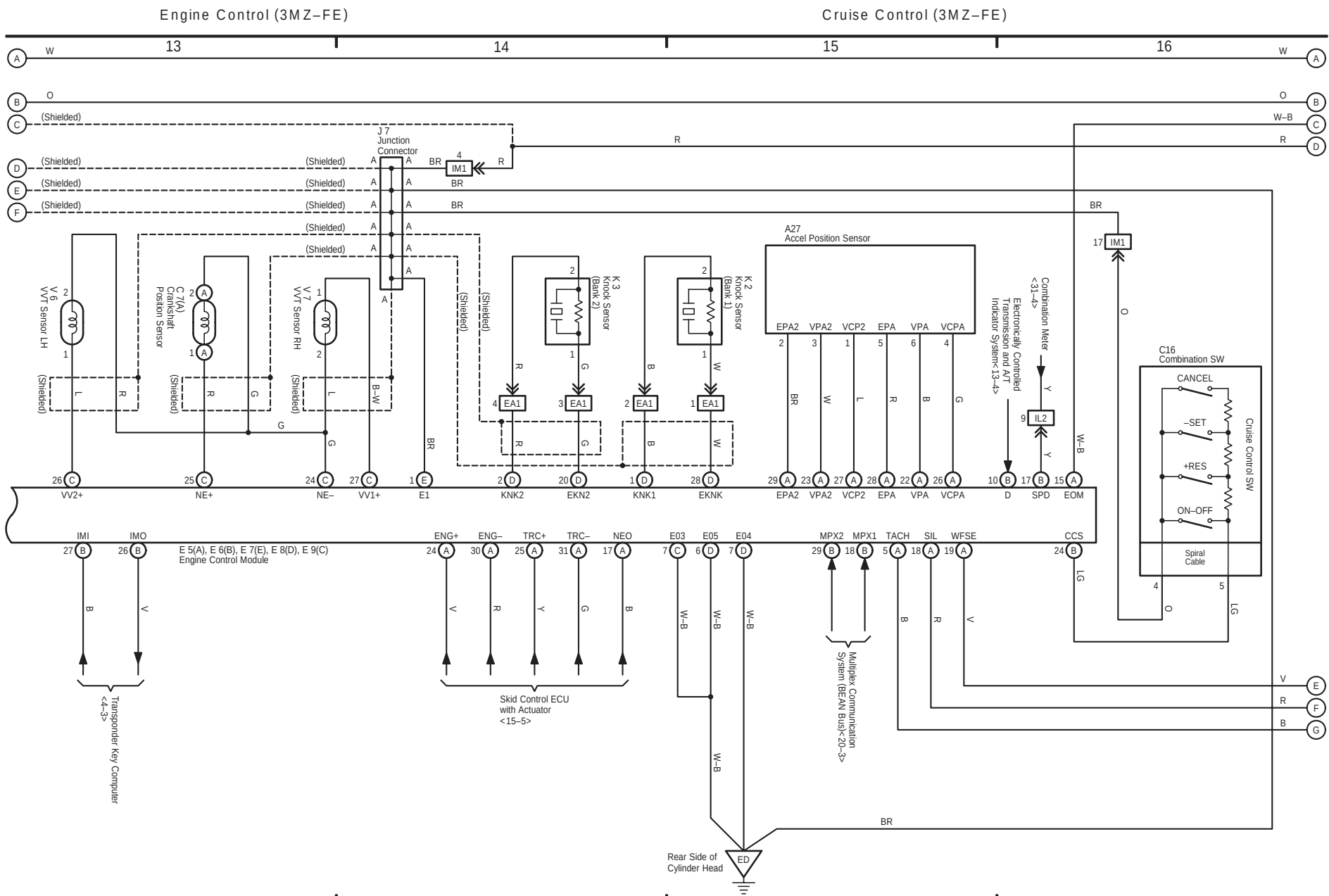
Engine Control (3MZ-FE)



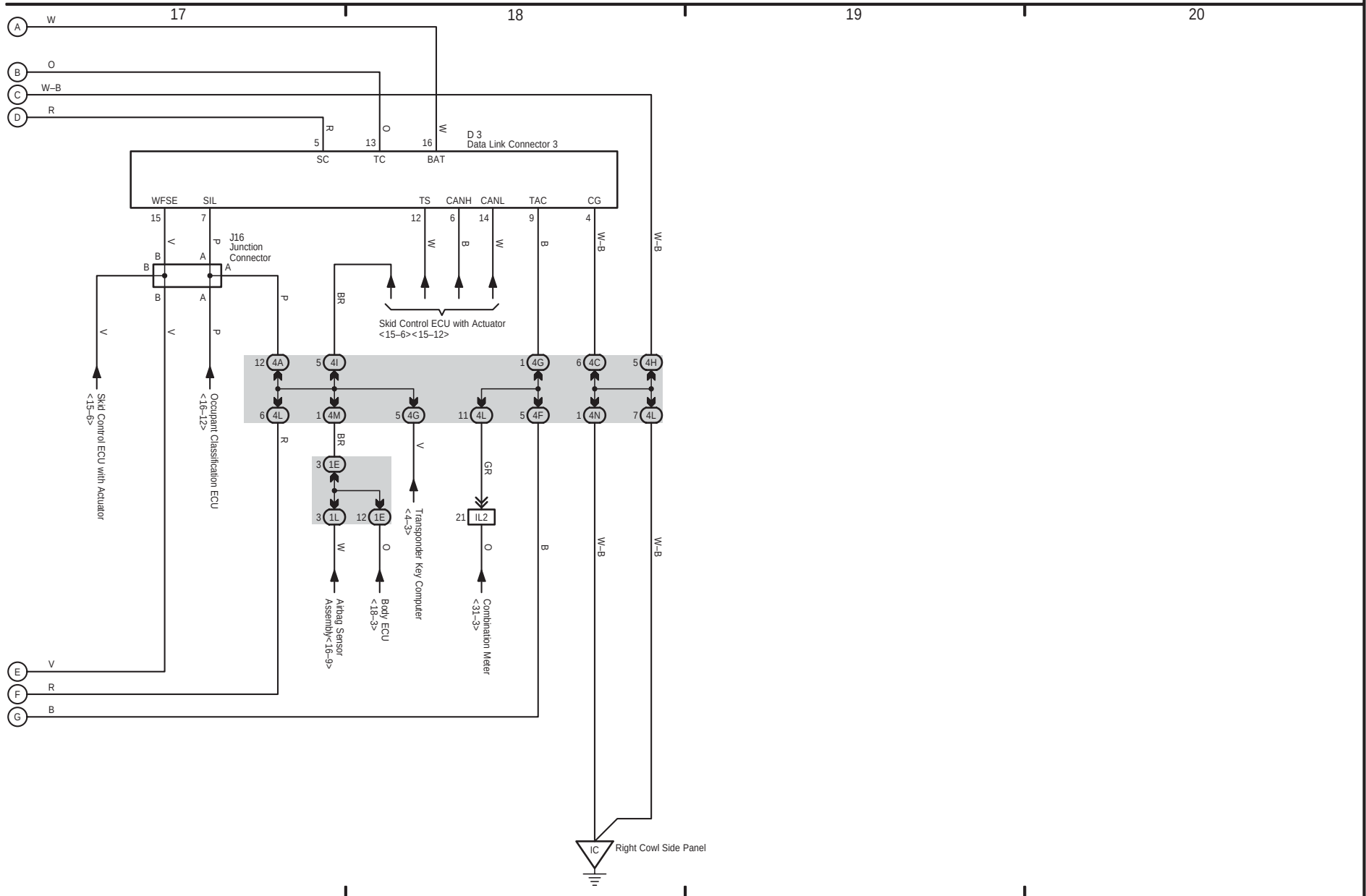
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2 HIGHLANDER (Cont' d)



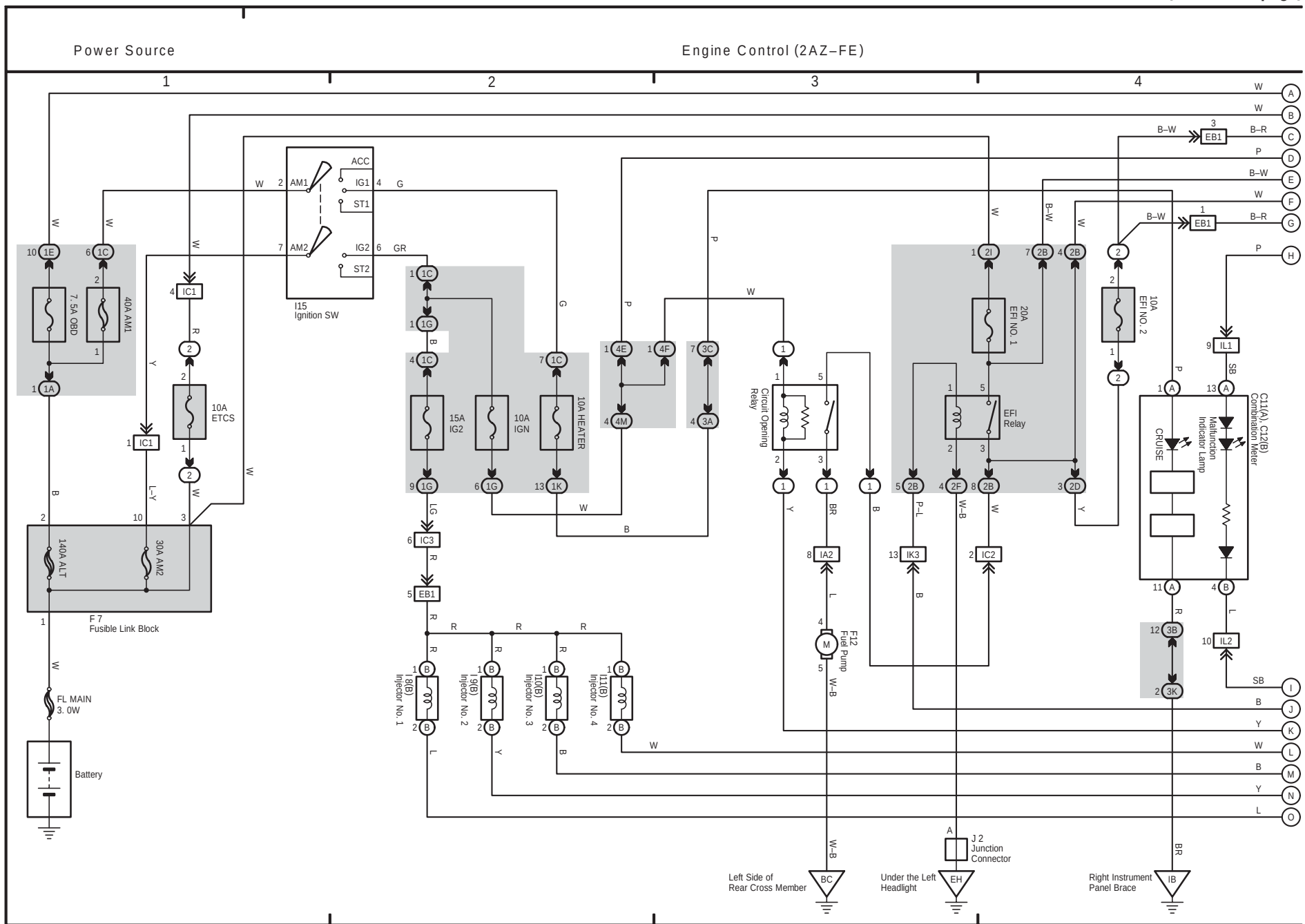


Cruise Control (3MZ-FE)

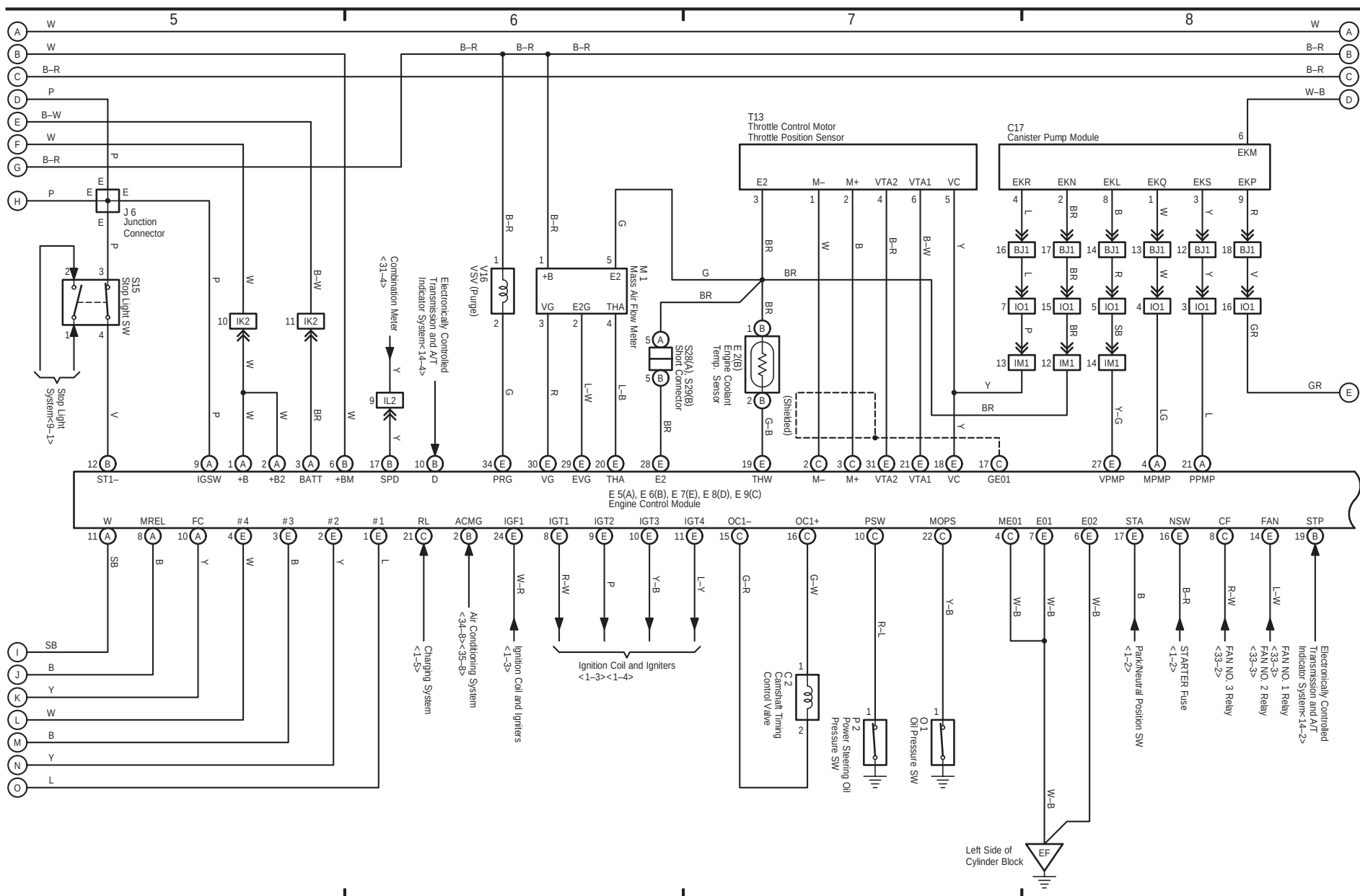


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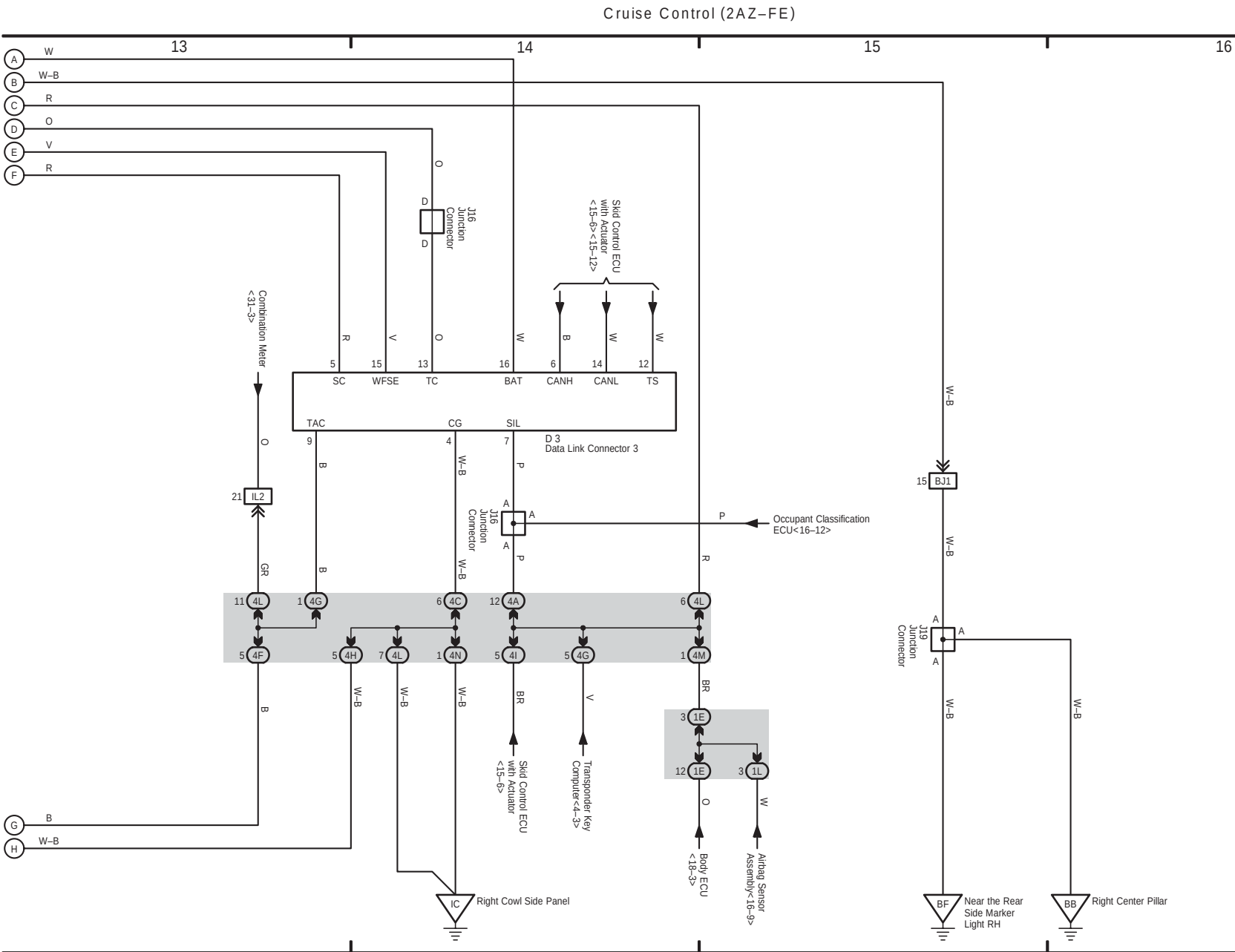
3 HIGHLANDER



HIGHLANDER (EM0120U)

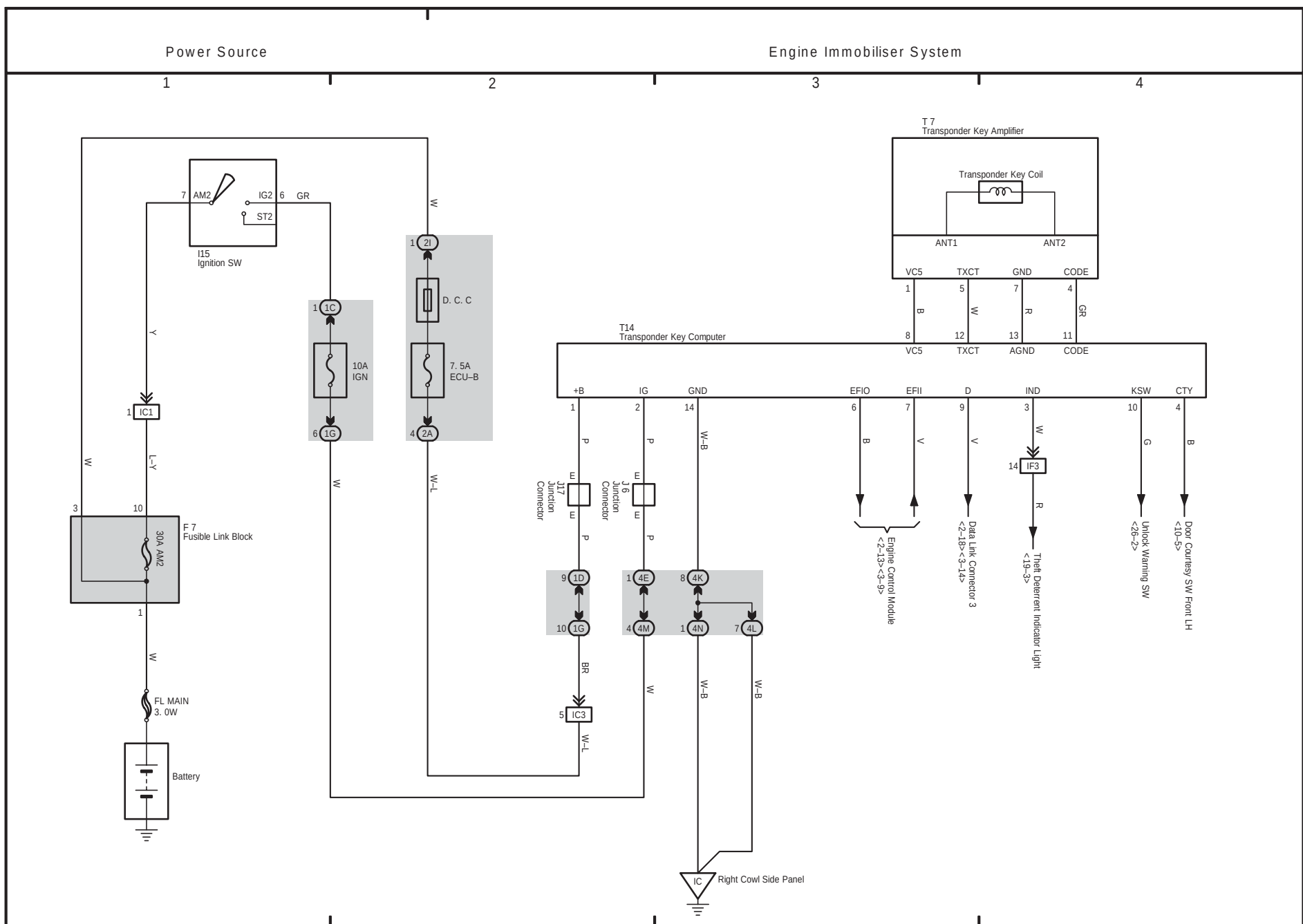


3 HIGHLANDER (Cont' d)



4 HIGHLANDER

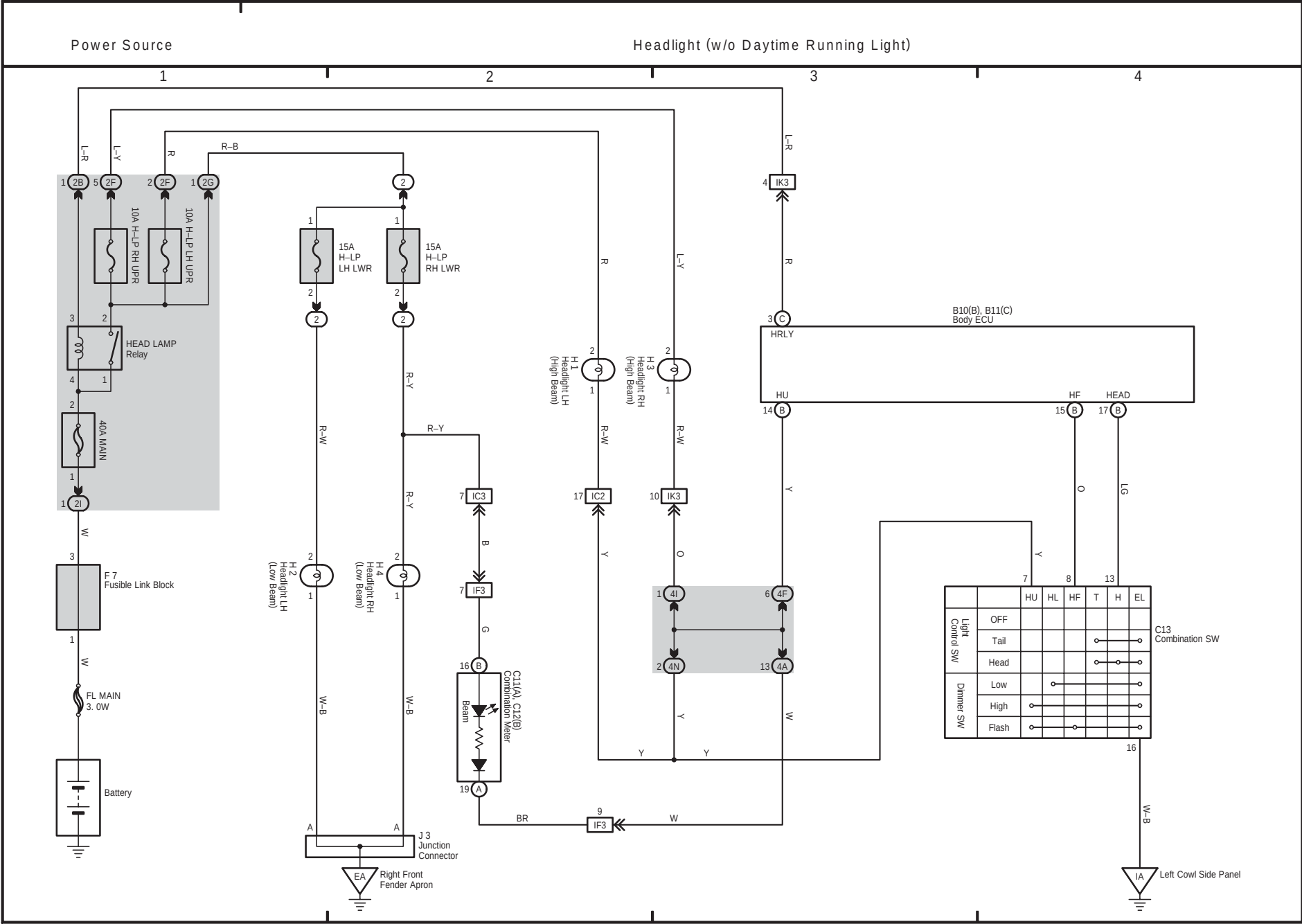
HIGHLANDER (EM0120U)



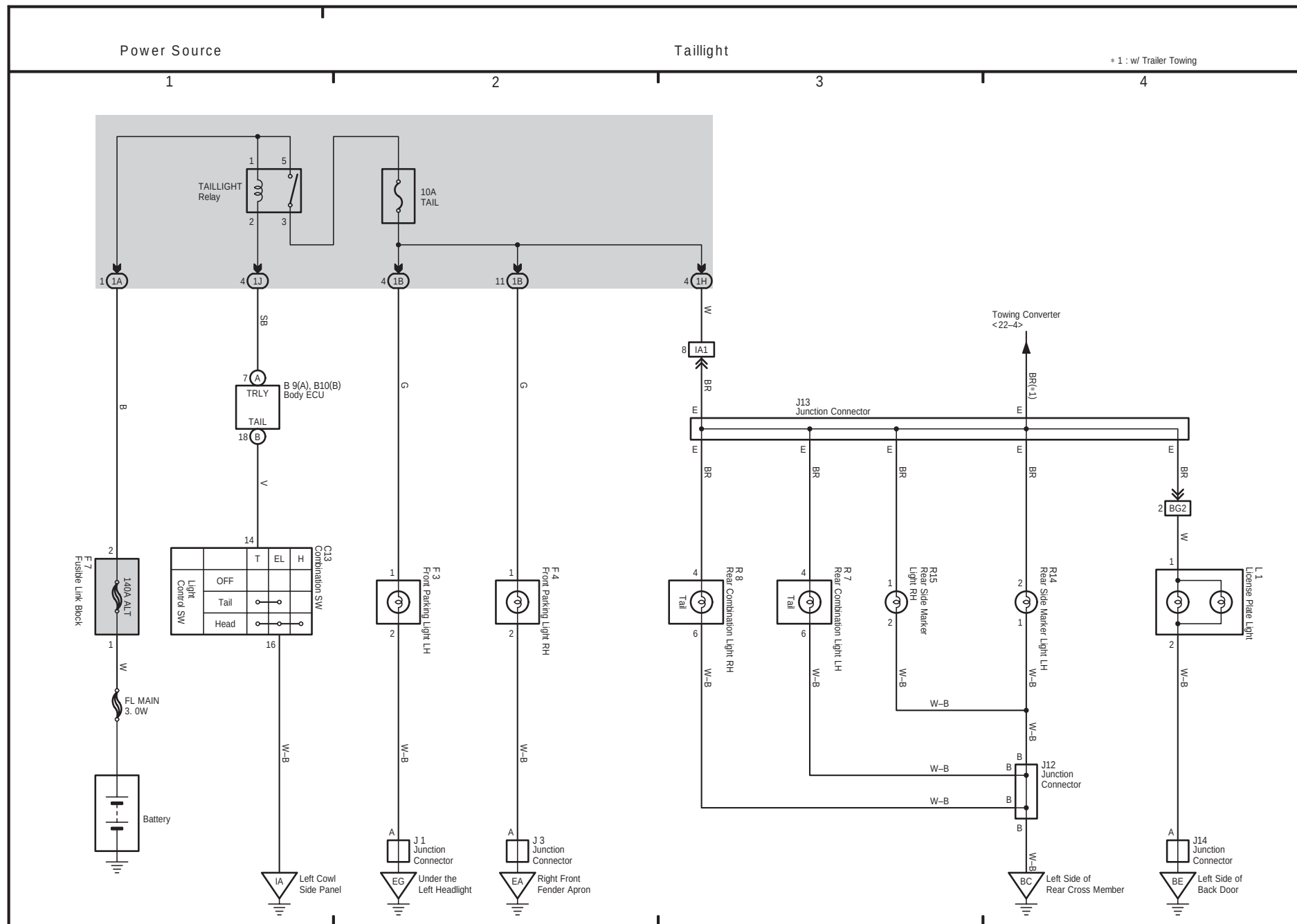
HIGHLANDER (EM0120U)



6 HIGHLANDER



HIGHLANDER (EM0120U)



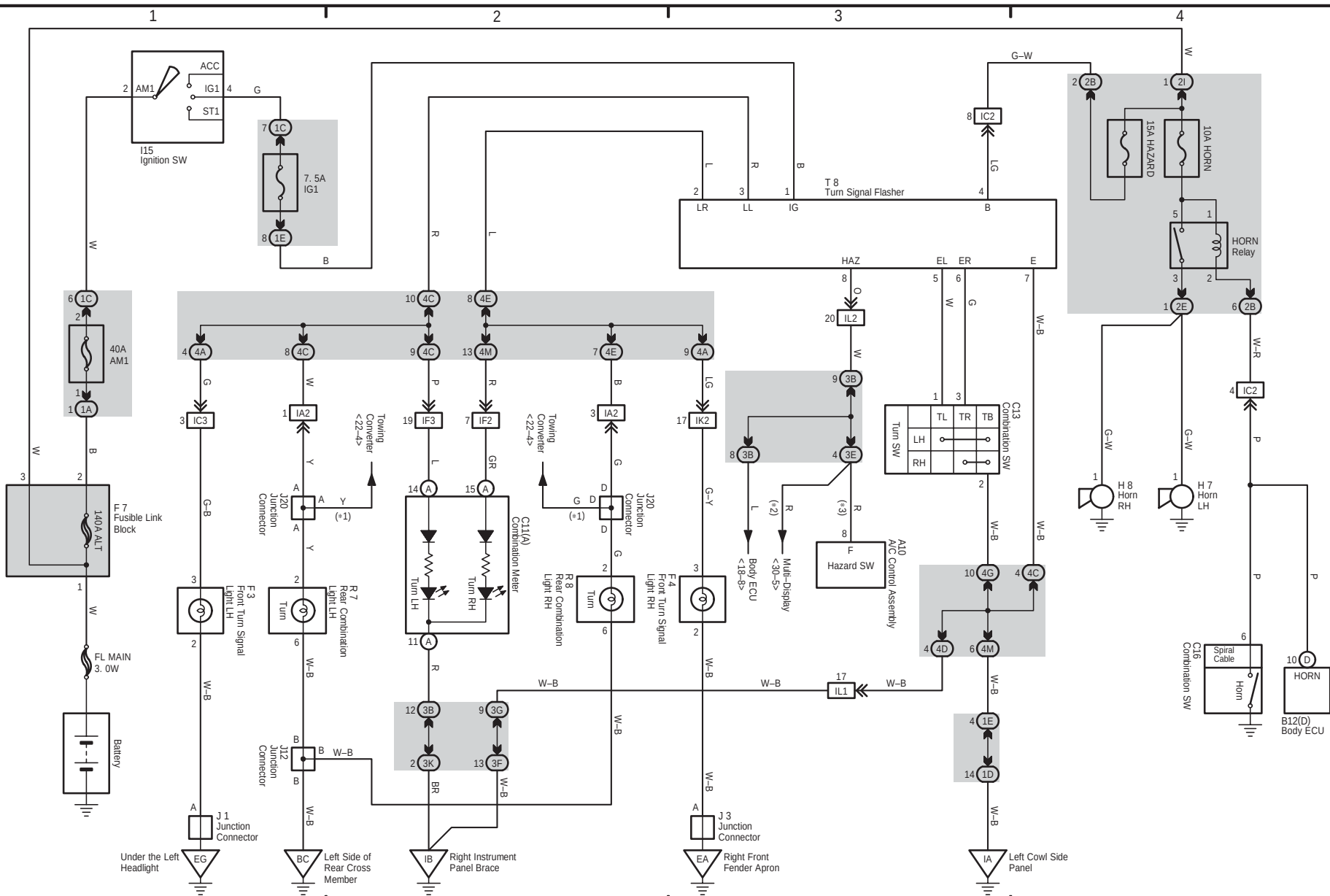
M OVERALL ELECTRICAL WIRING DIAGRAM

Power Source

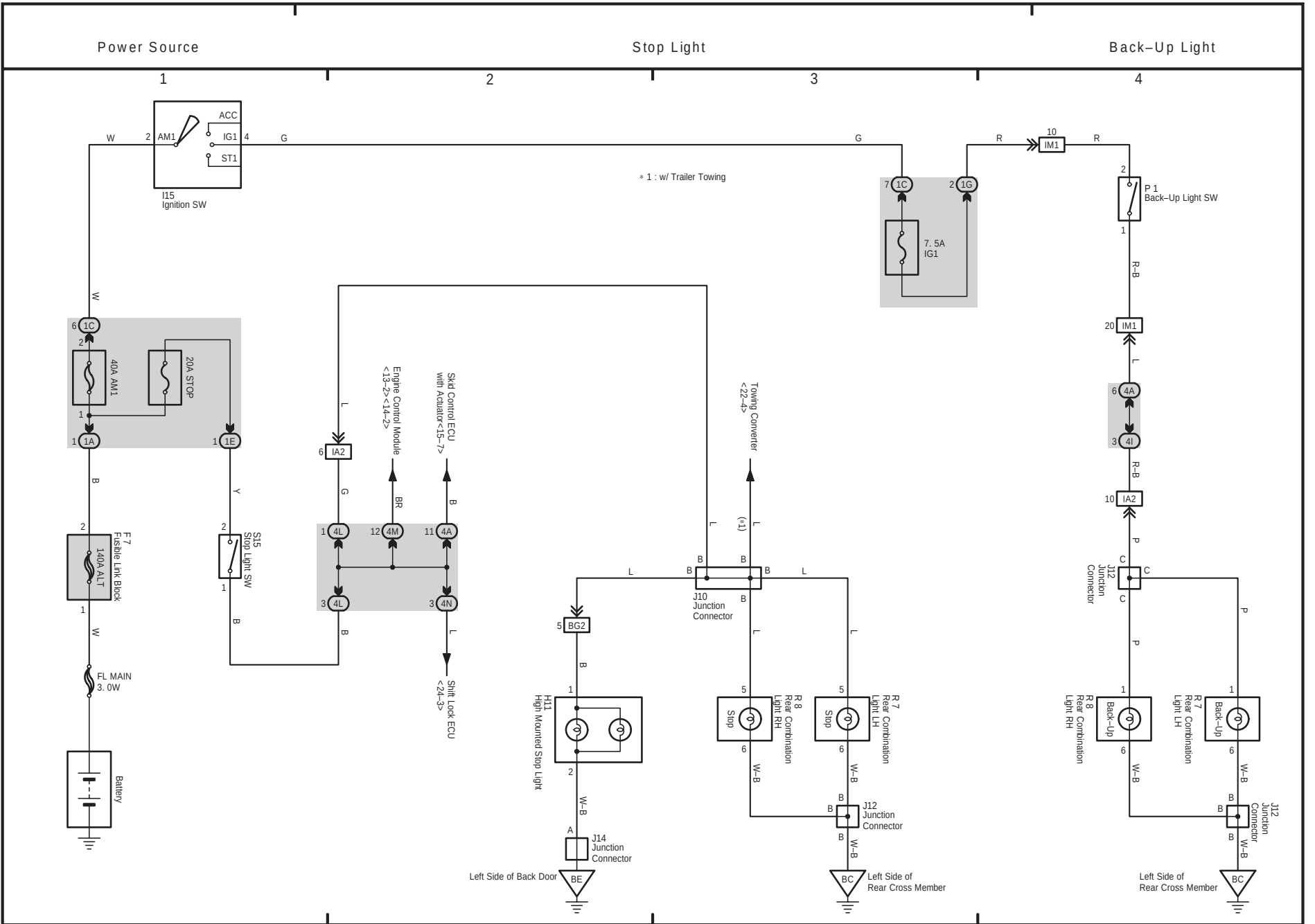
Turn Signal and Hazard Warning Light

* 1 : w/ Trailer Towing
 * 2 : w/ Navigation System
 * 3 : w/o Navigation System

Horn



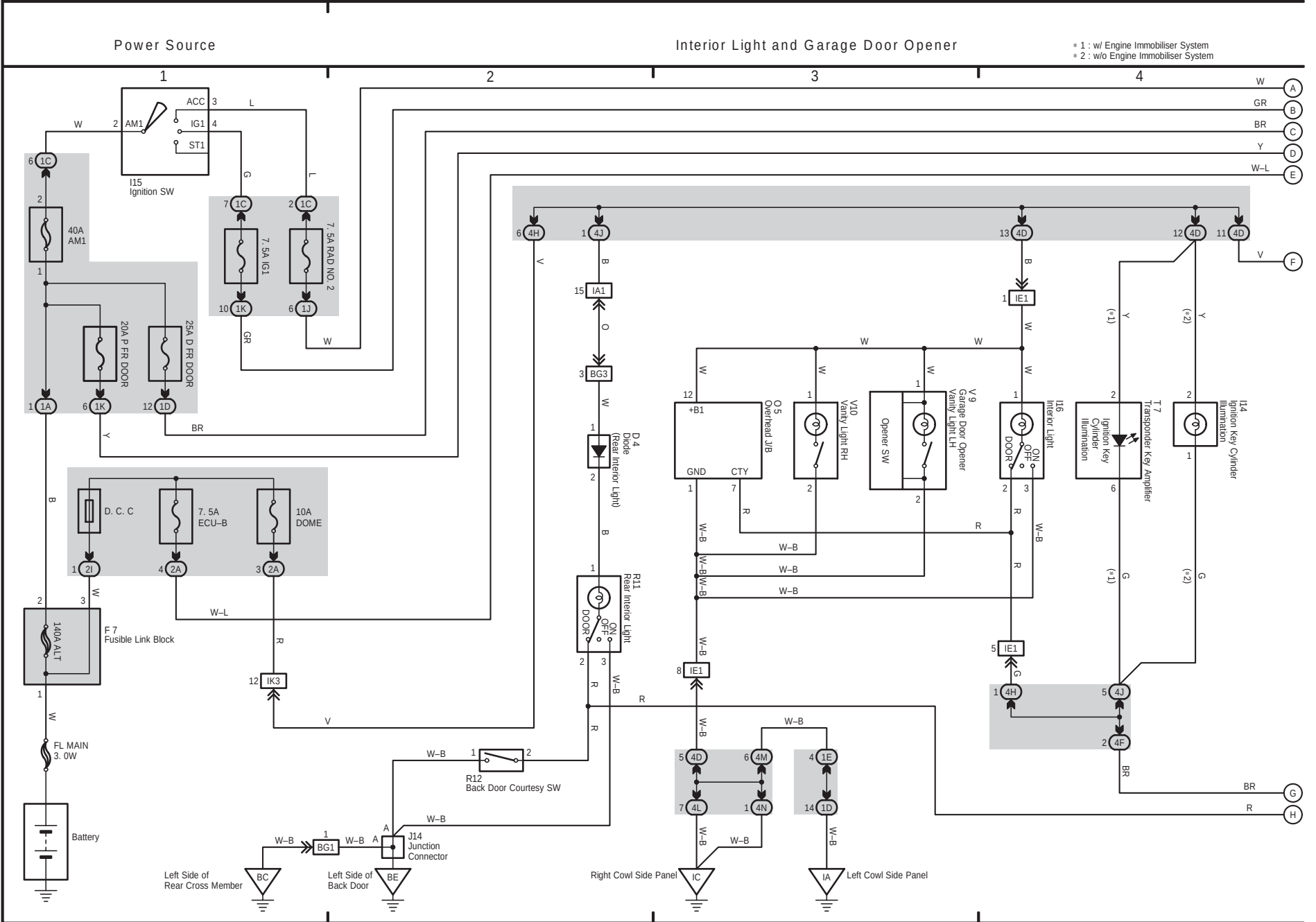
9 HIGHLANDER



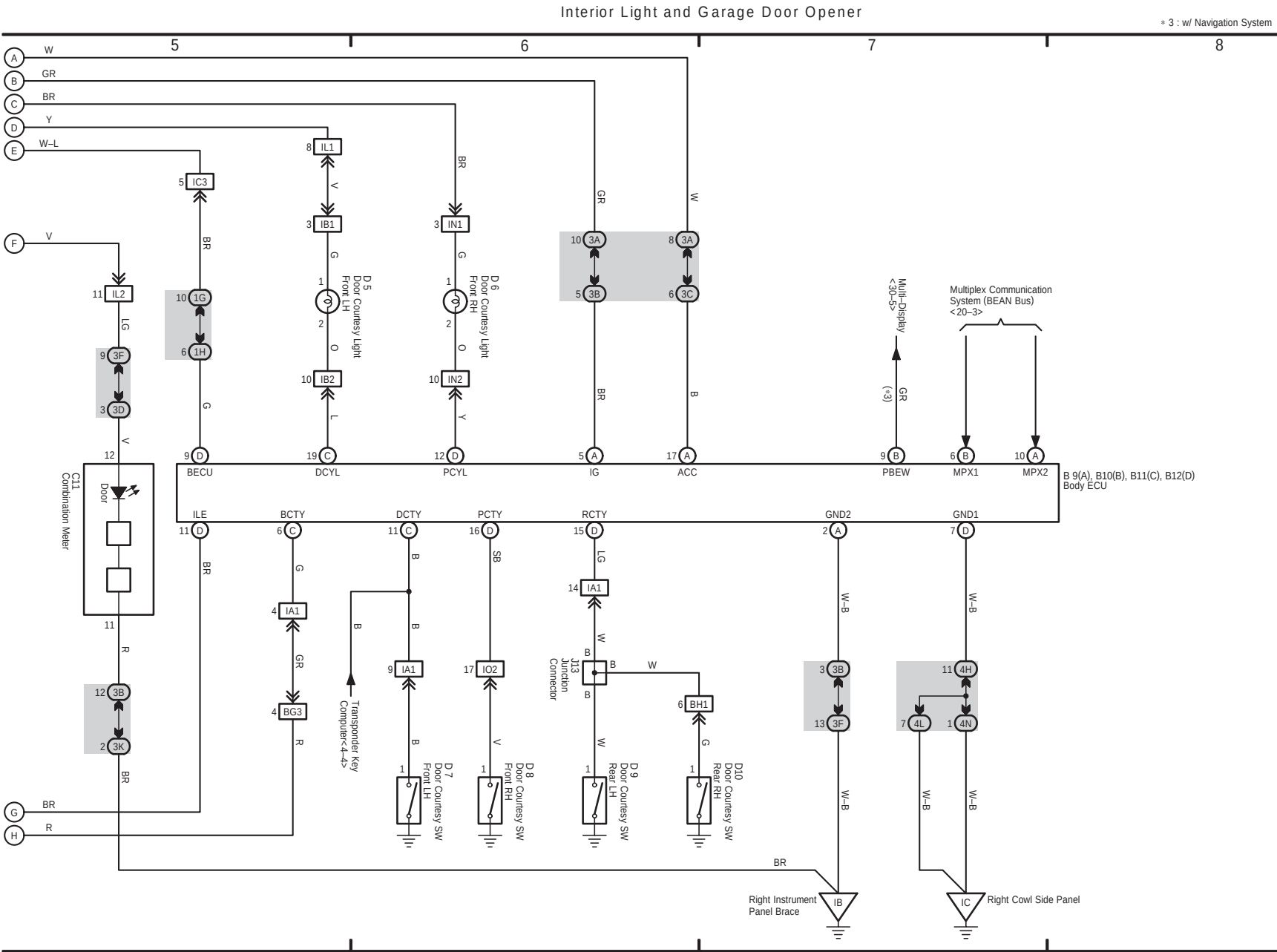
HIGHLANDER (EM0120U)

(Cont. next page)

10 HIGHLANDER



10 HIGHLANDER (Cont' d)

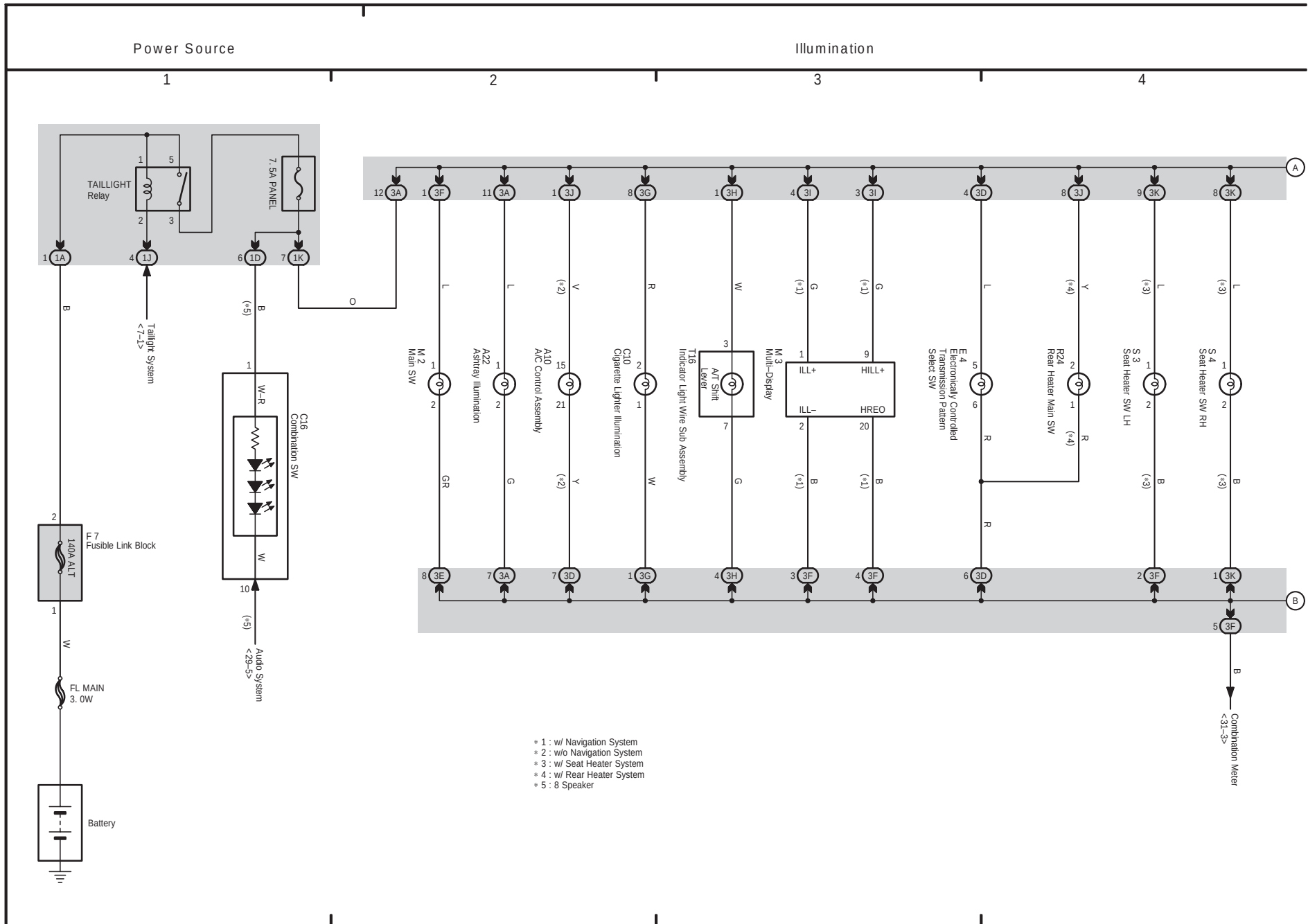


(Cont. next page)

11 HIGHLANDER

354

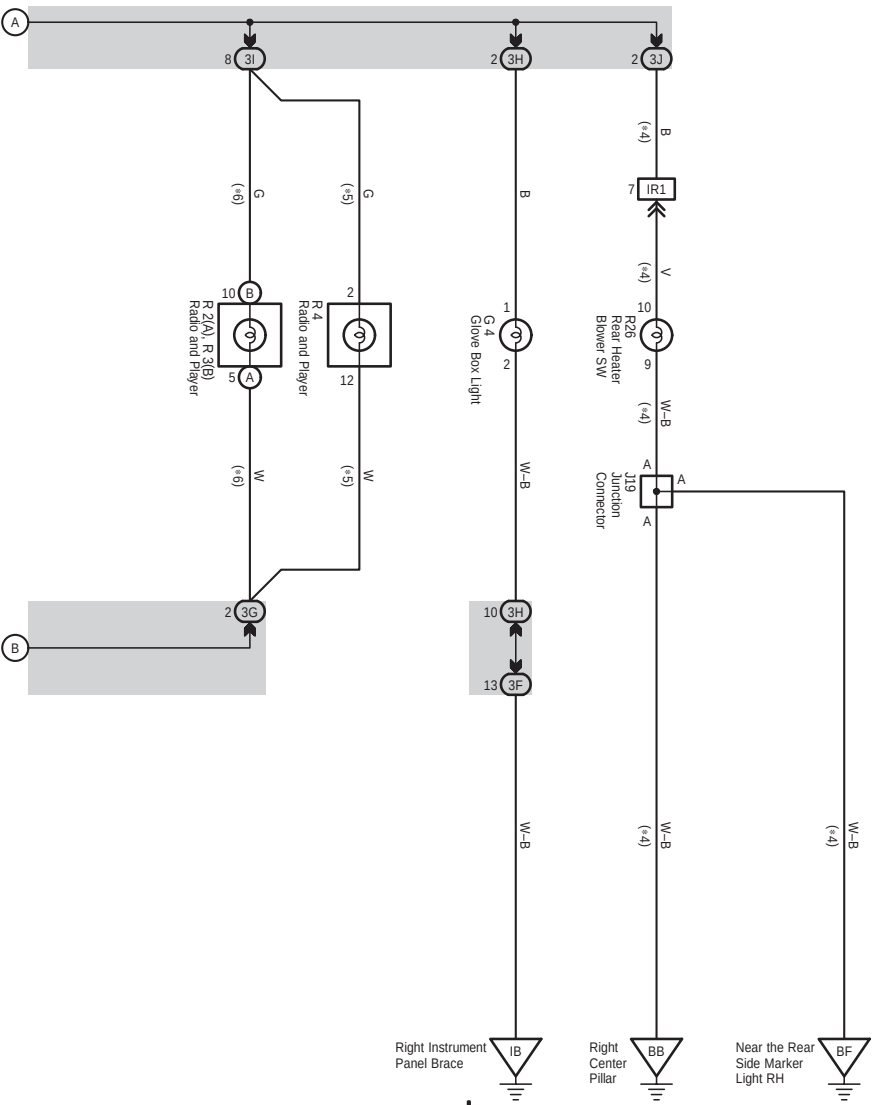
HIGHLANDER (EM0120U)



11 HIGHLANDER (Cont' d)

Illumination

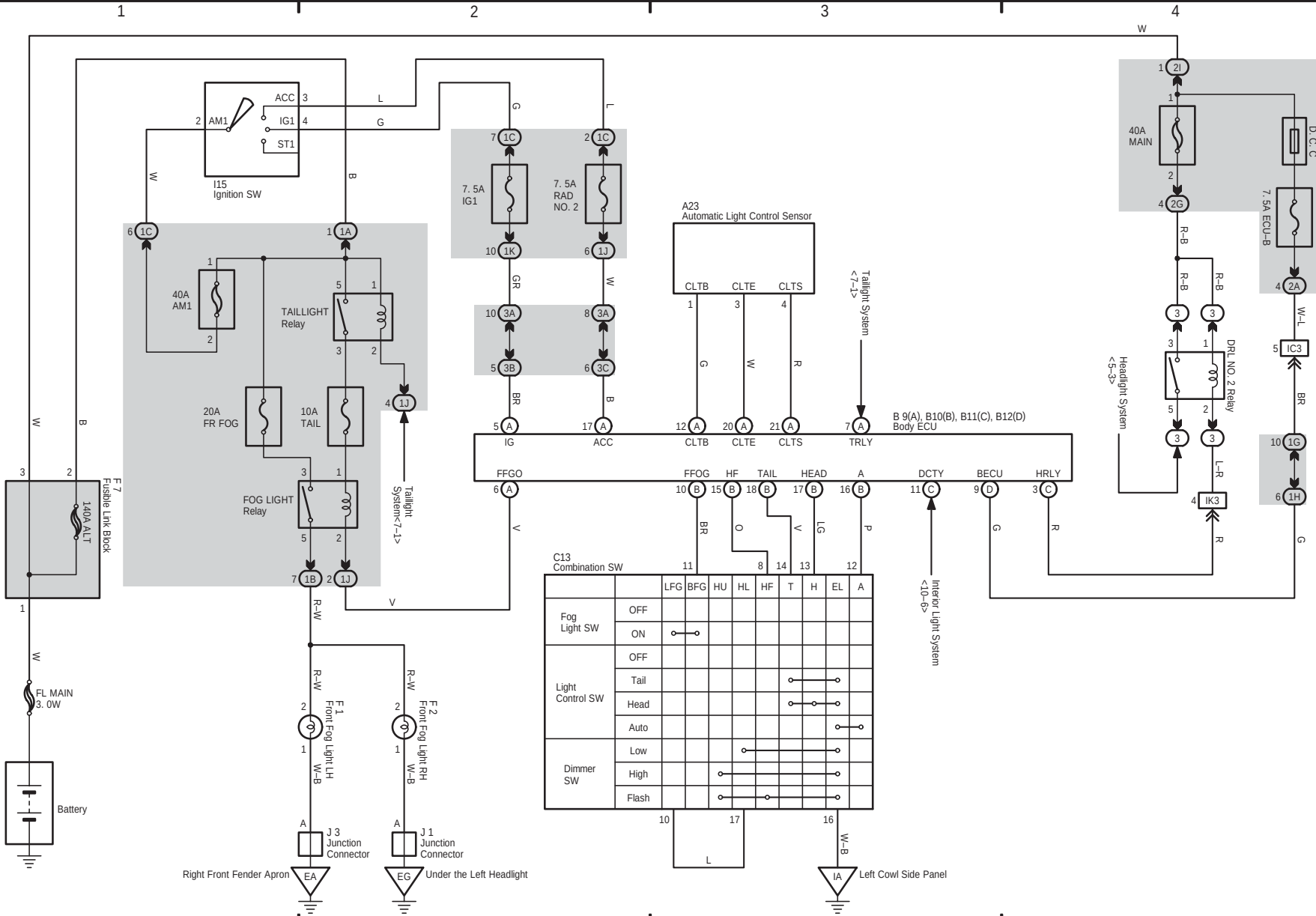
- * 4 : w/ Rear Heater System
- * 5 : 8 Speaker
- * 6 : 6 Speaker

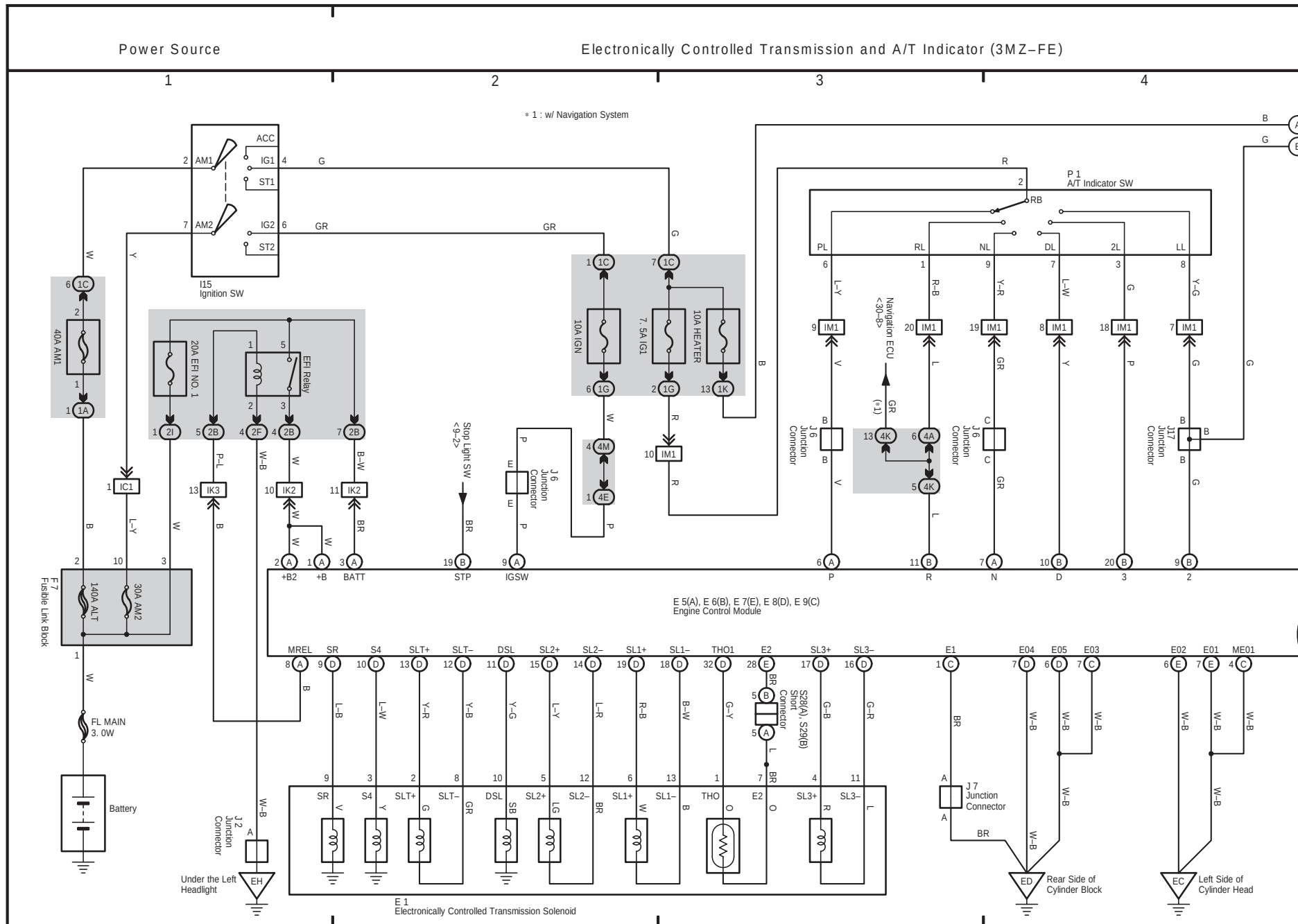


Power Source

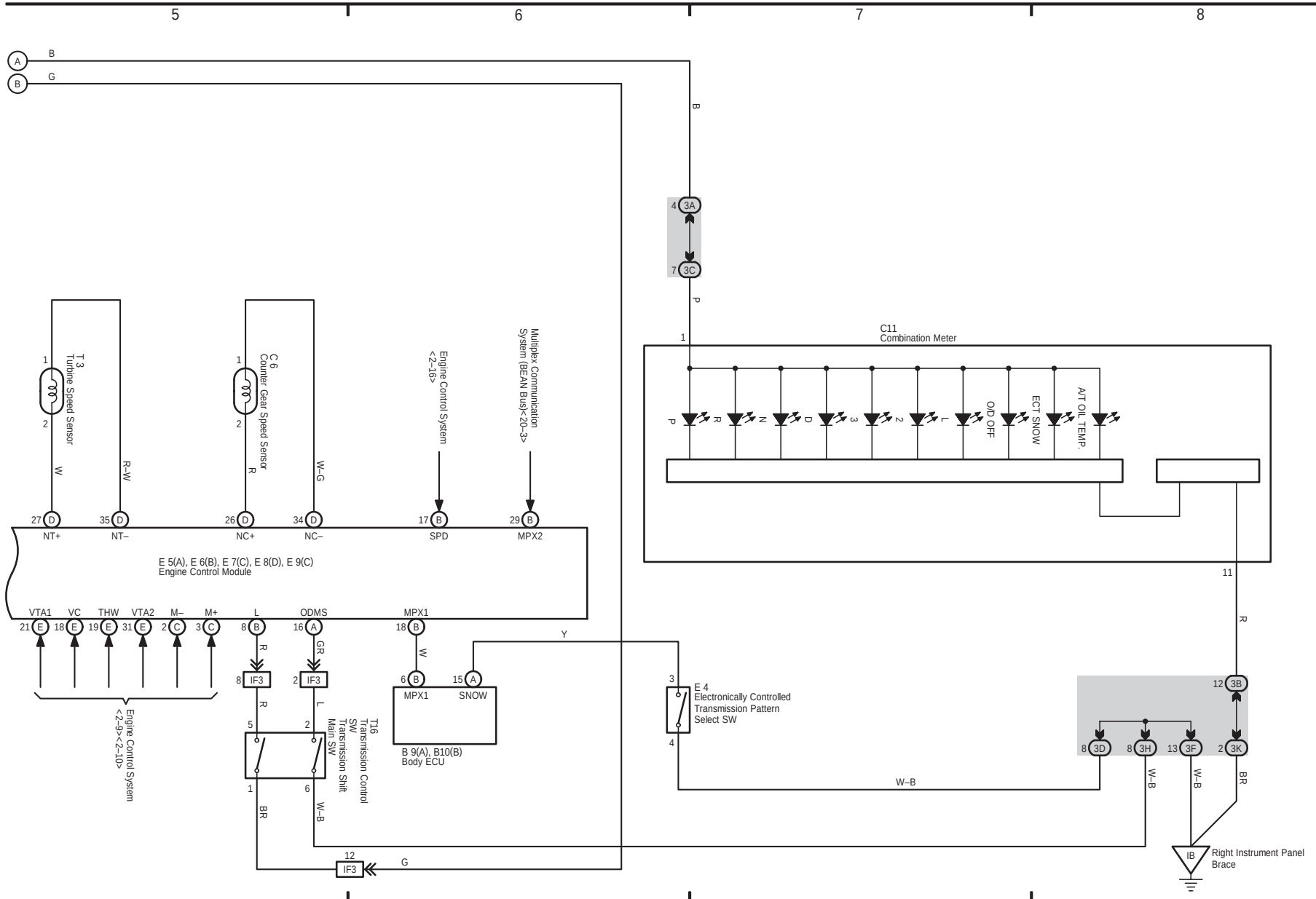
Front Fog Light

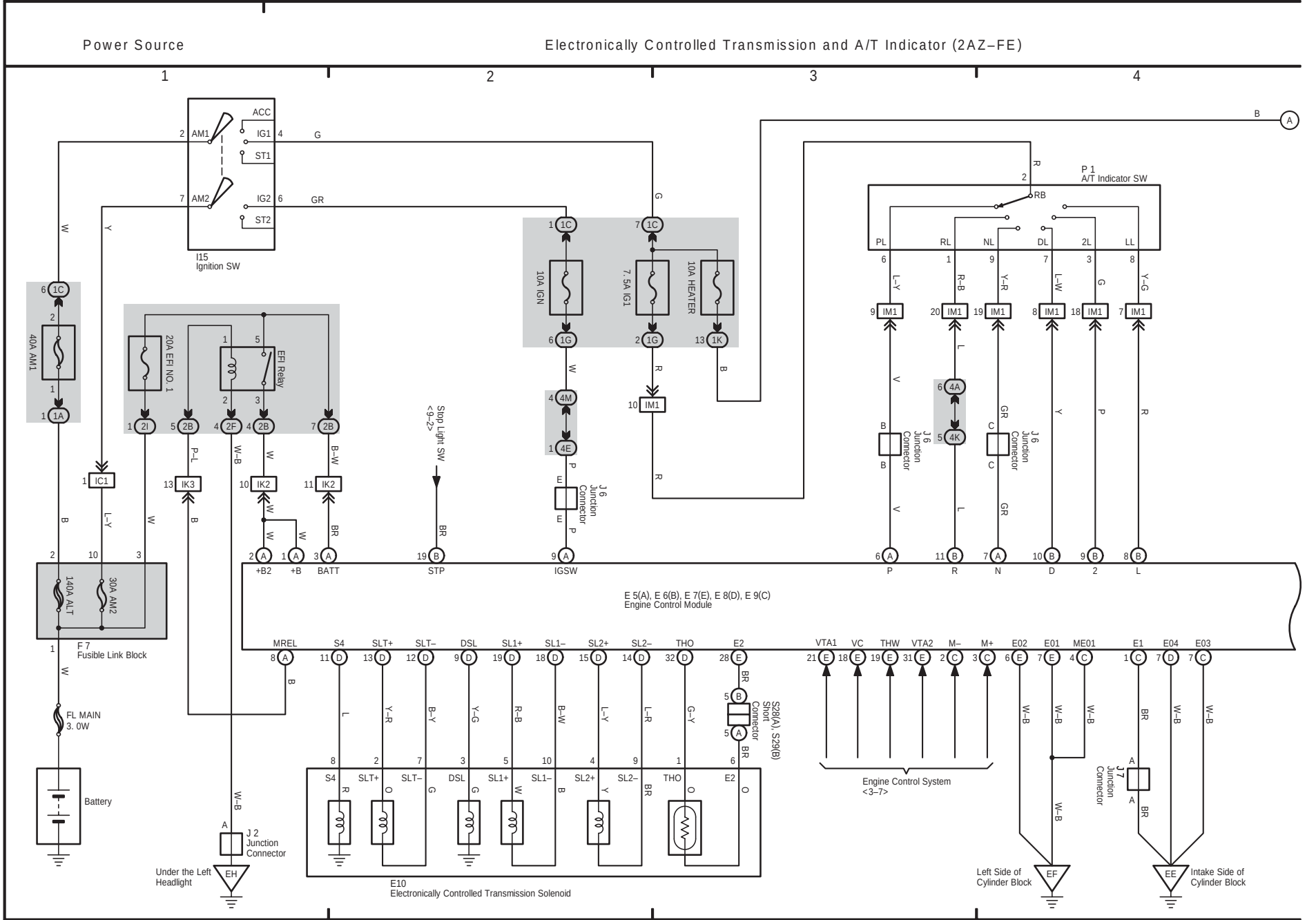
Automatic Light Control





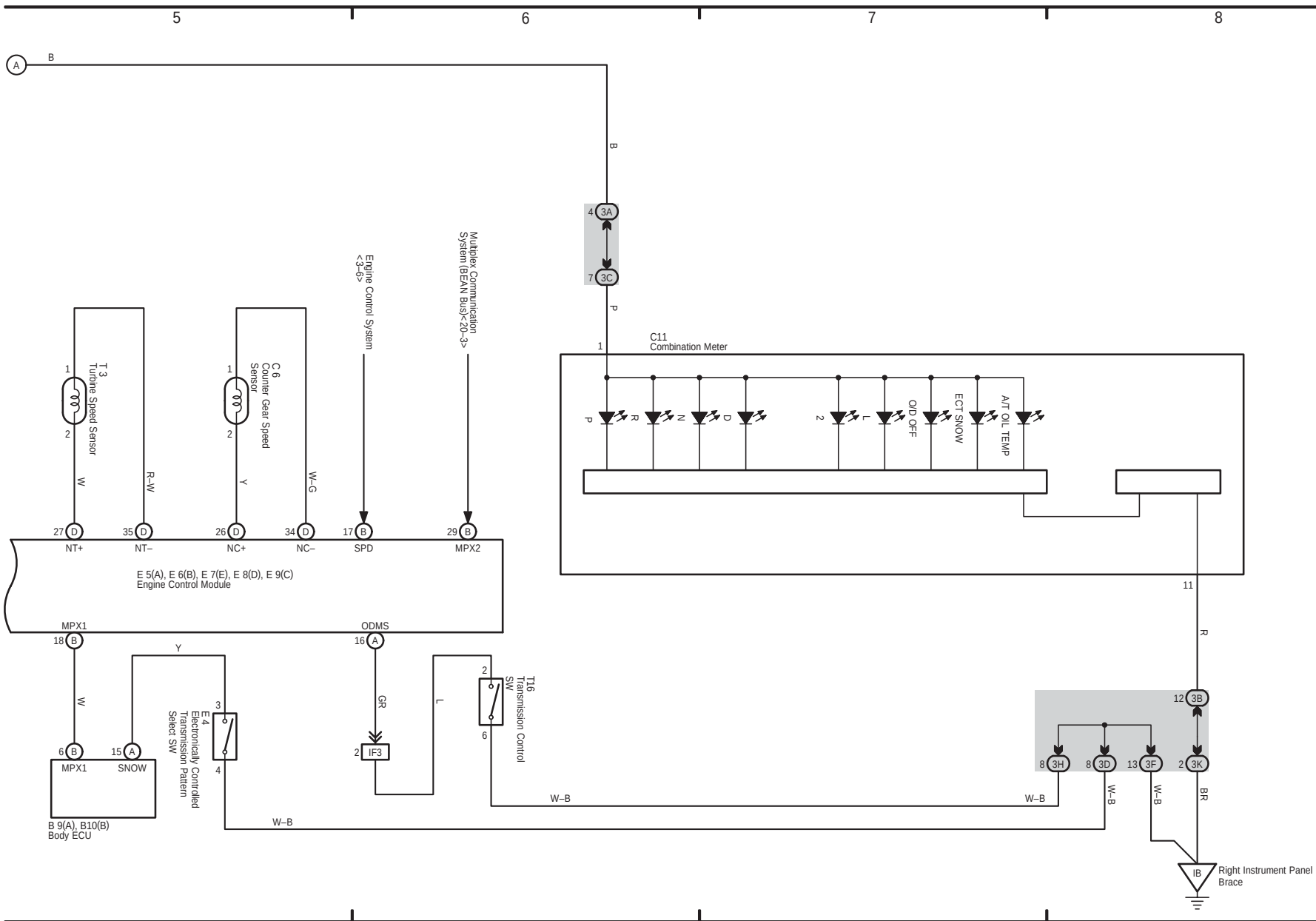
Electronically Controlled Transmission and A/T Indicator (3MZ-FE)





14 HIGHLANDER (Cont' d)

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



The diagram illustrates the electrical system for a 2WD vehicle, centered around the S27 Skid Control ECU with Actuator. The system is organized into three main sections: the top section for the Engine Control Module and Data Link Connector 3, the middle section for the S27 ECU and its inputs/outputs, and the bottom section for various sensors and actuators.

Top Section: Engine Control Module and Data Link Connector 3

- Engine Control Module (<2-14><3-9><3-10>):** Includes five IC4 components connected to the ECU pins 9 (ENG+), 23 (ENG-), 8 (TRC+), 22 (TRC-), and 10 (NEO). The inputs are color-coded: V (Violet), R (Red), Y (Yellow), G (Green), and B (Blue).
- Data Link Connector 3 (<2-17><2-18><3-12><3-14>):** Includes three IC4 components connected to the ECU pins 13 (D/G), 24 (TS), and 42 (WFSE). The inputs are color-coded: BR (Brown), W (White), and V (Violet).
- Stop Light SW (<9-2>):** Connected to ECU pin 27 (STP) via an IC4 component. Input is color-coded: B (Blue).

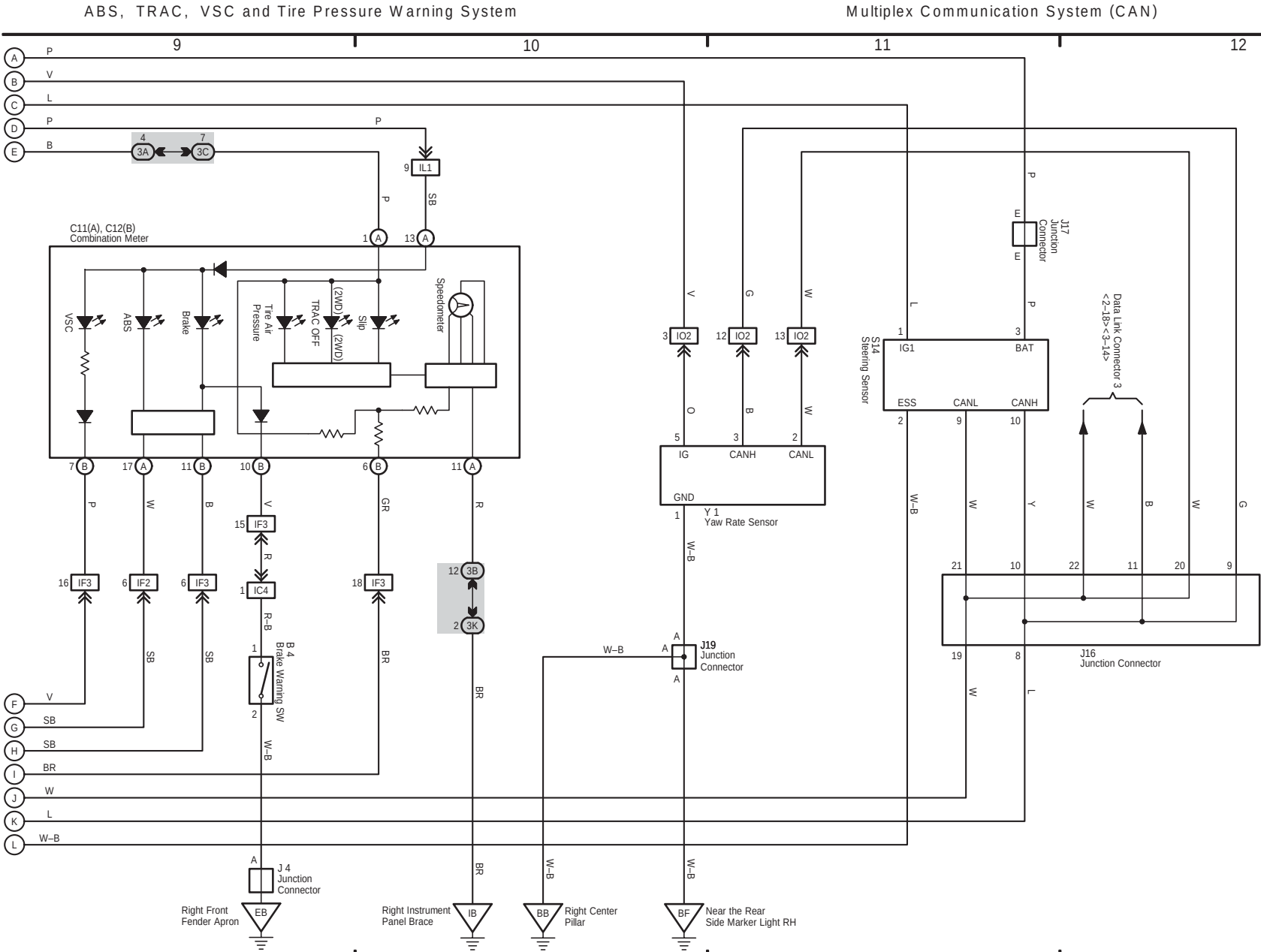
Middle Section: S27 Skid Control ECU with Actuator

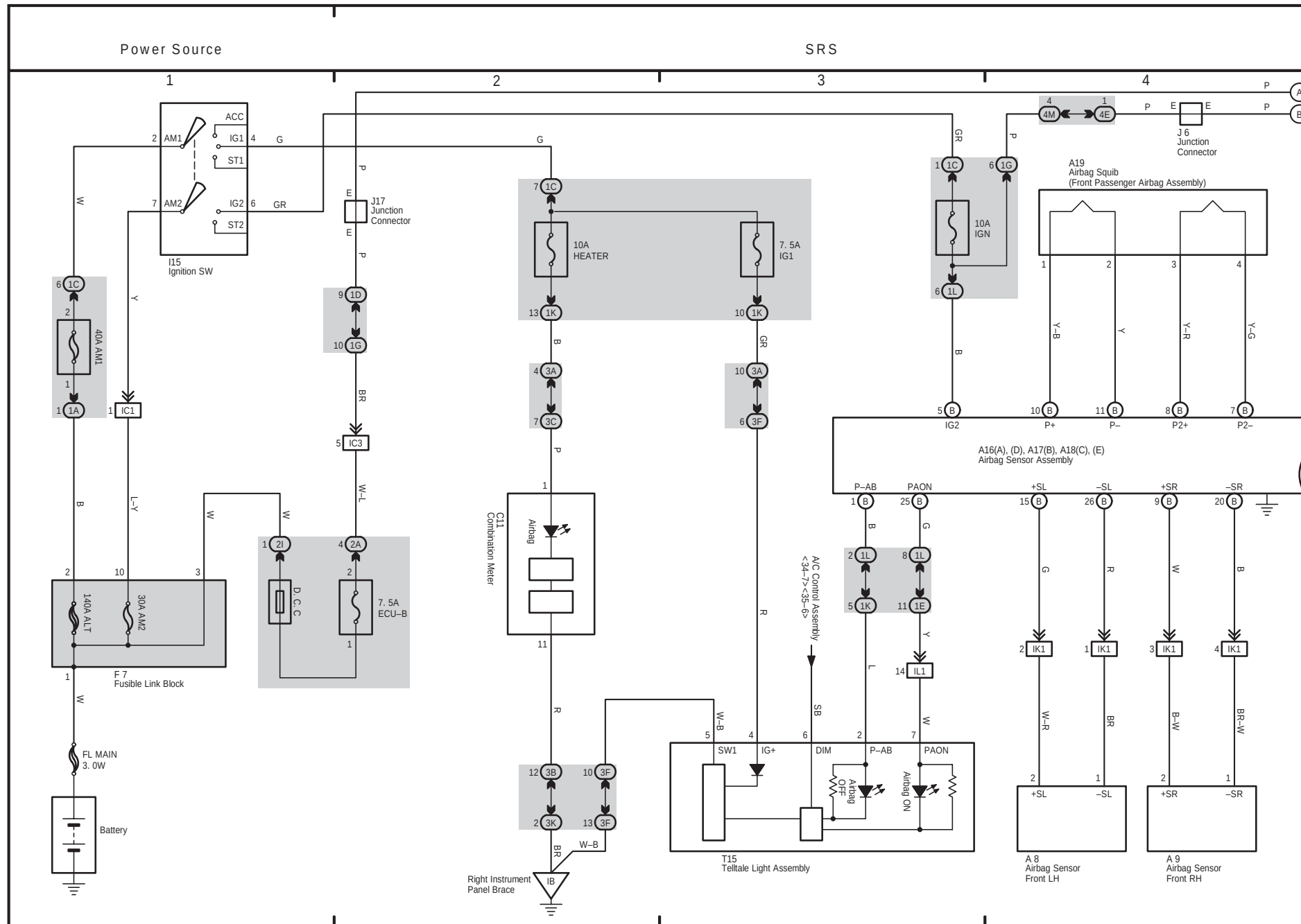
- Inputs:** GND2 (1), PKB (28), CSW (43), FSW+ (7), INIT (41), GND1 (32), CANH (11), CANL (25), SP1 (12), BRL (44), WA (29), and VSCW (36).
- Outputs:** GND1 (32), CANH (11), CANL (25), SP1 (12), BRL (44), WA (29), and VSCW (36).

Bottom Section: Sensors and Actuators

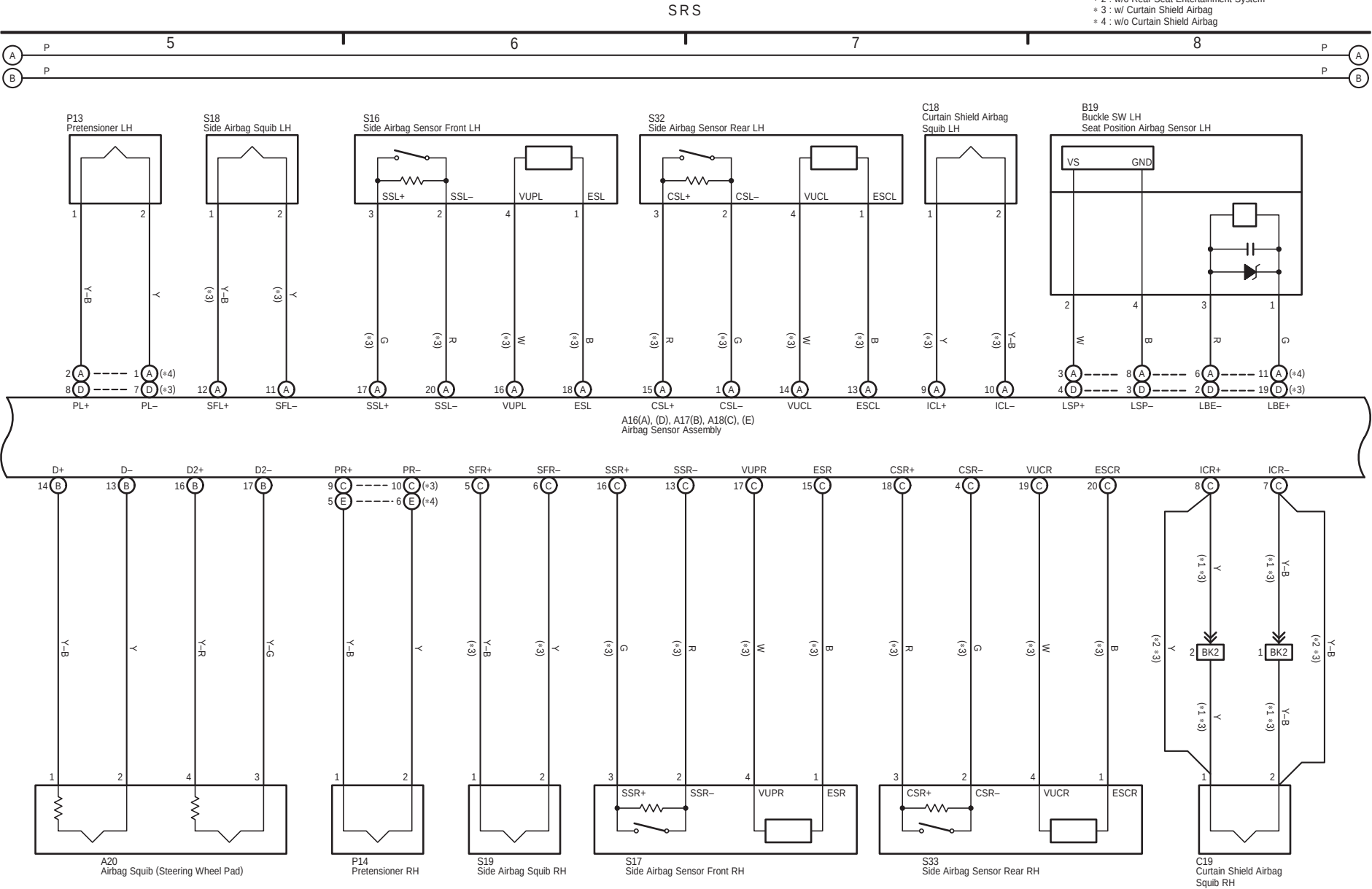
- Body ECU (<5-4>):** Connected to the ECU via an IC4 component. Inputs are color-coded: R (Red), L (Light Blue), and G (Green).
- TRAC OFF SW (T6):** Connected to the ECU via an IC4 component. Input is color-coded: W (White).
- Brake Pedal Load Sensing SW (BI3):** Connected to the ECU via an IC4 component. Input is color-coded: P (Pink).
- Pressure SW (P22):** Connected to the ECU via an IC4 component. Input is color-coded: SB (Silver).
- Right Instrument Panel Brace (IB):** Connected to the ECU via an IC4 component. Input is color-coded: W (White).
- Right Cowl Side Panel (IC):** Connected to the ECU via an IC4 component. Input is color-coded: W (White).
- Right Front Fender Apron (EB):** Connected to the ECU via an IC4 component. Input is color-coded: W (White).
- Right Front Fender Apron (EA):** Connected to the ECU via an IC4 component. Input is color-coded: W (White).

Legend: * 1 : 2WD

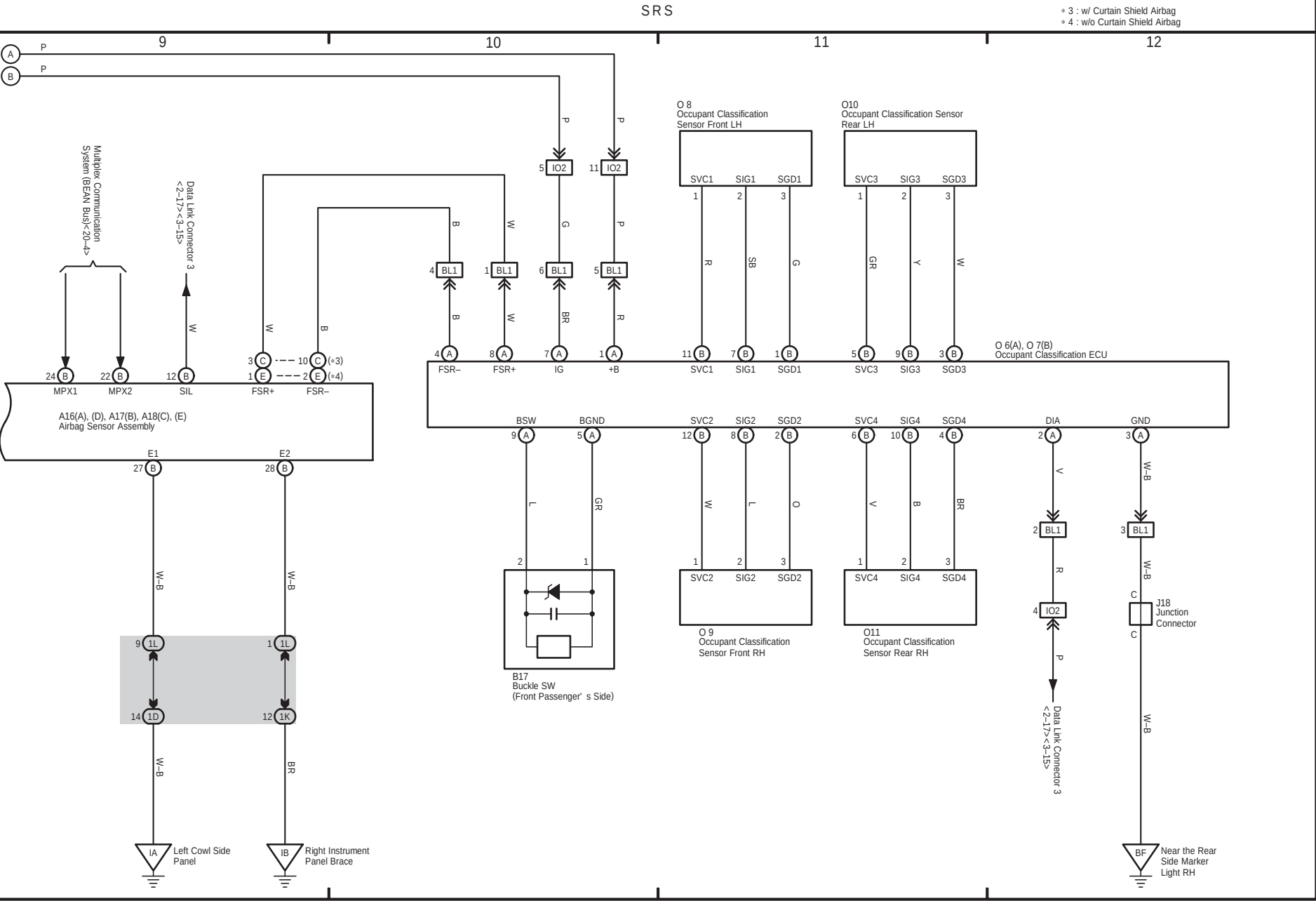


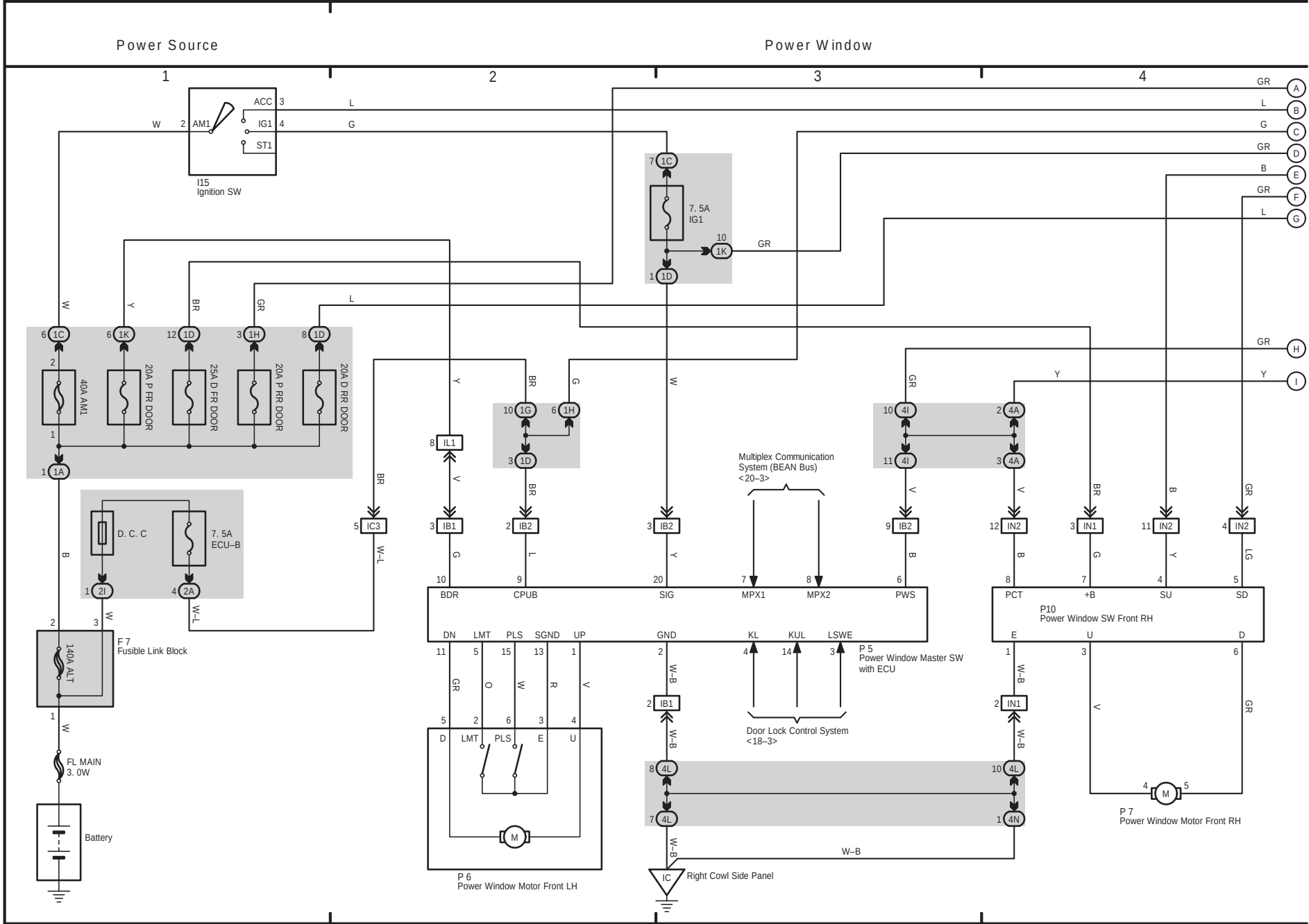


- * 1 : w/ Rear Seat Entertainment System
- * 2 : w/o Rear Seat Entertainment System
- * 3 : w/ Curtain Shield Airbag
- * 4 : w/o Curtain Shield Airbag

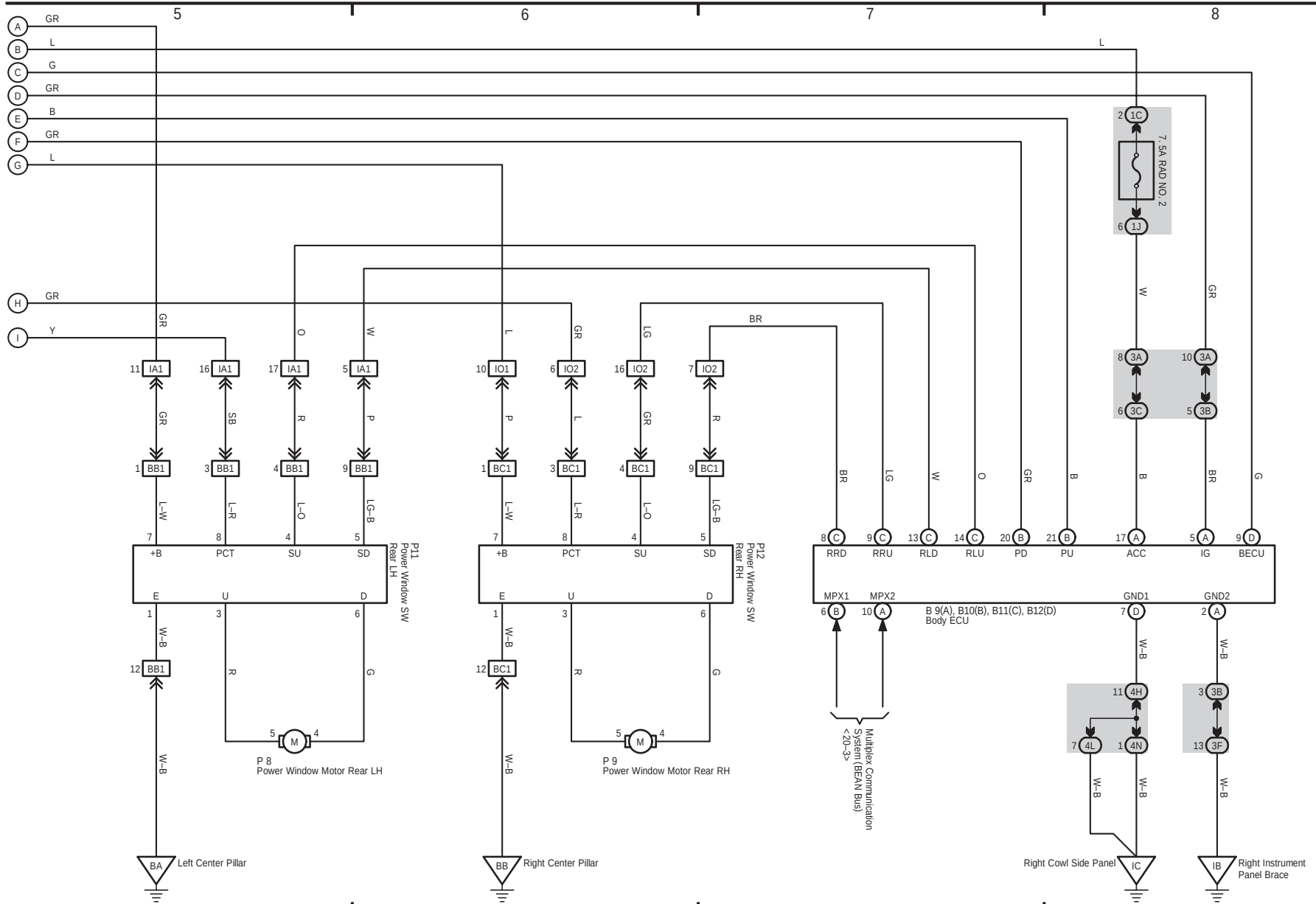


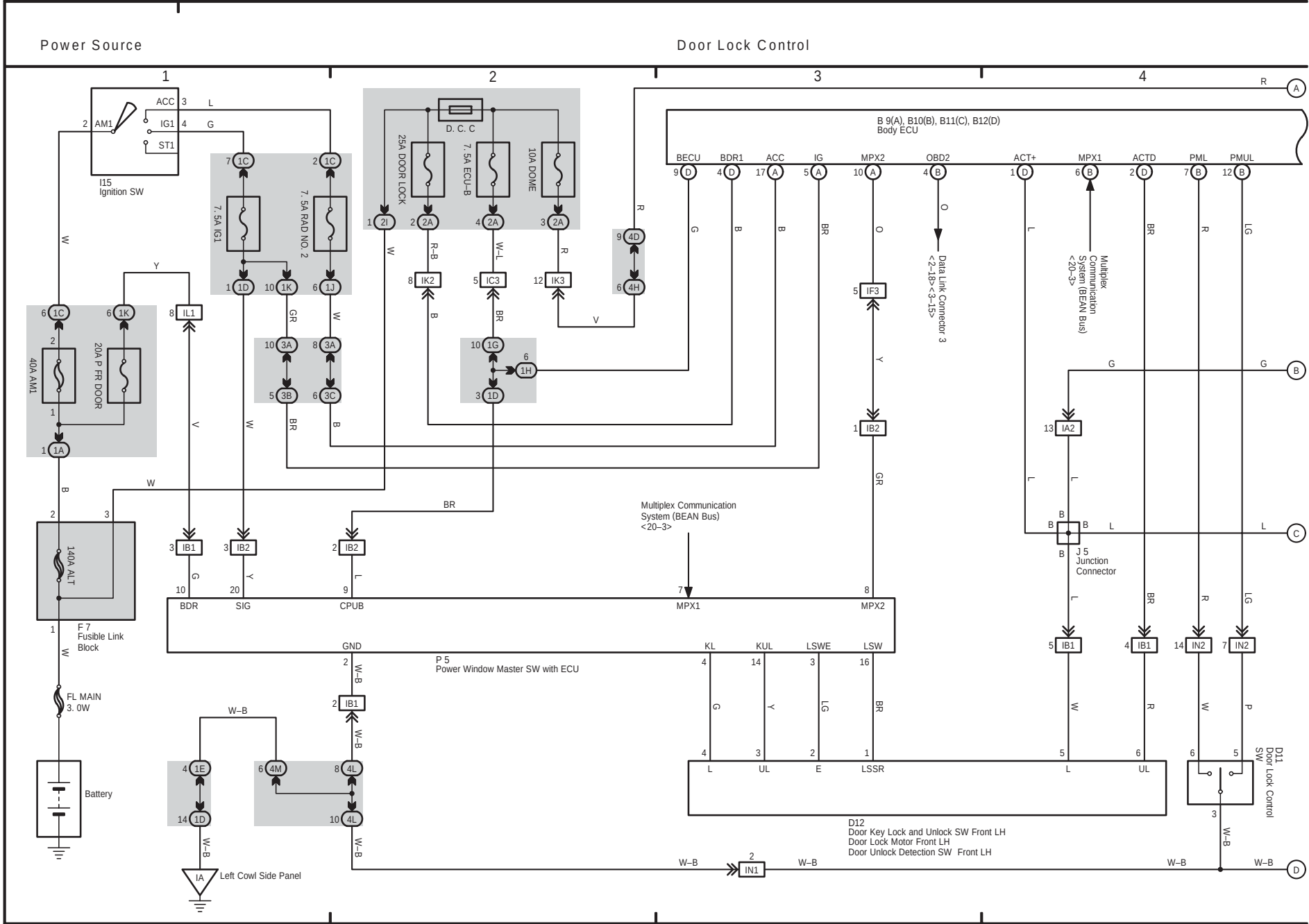
16 HIGHLANDER (Cont' d)

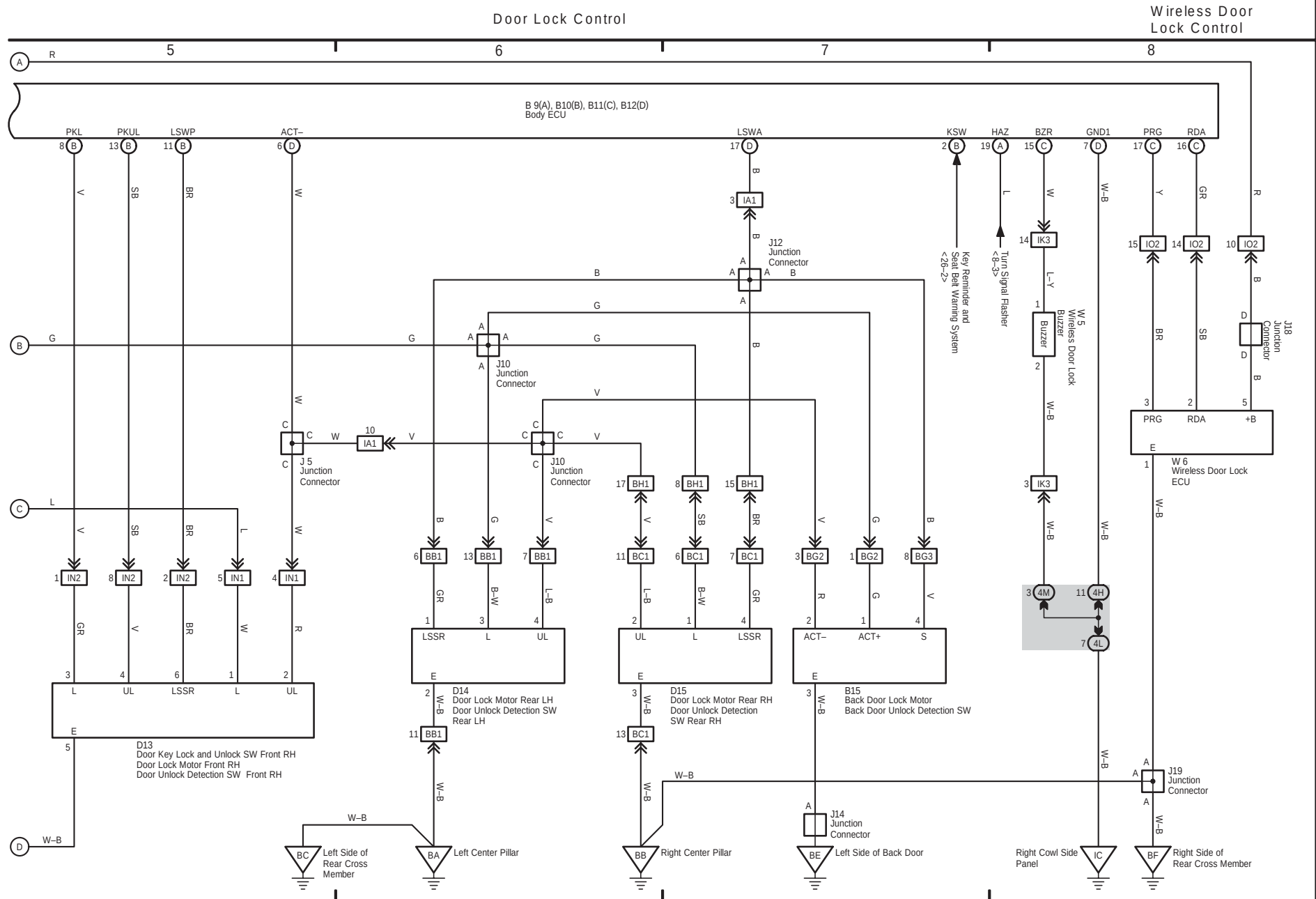




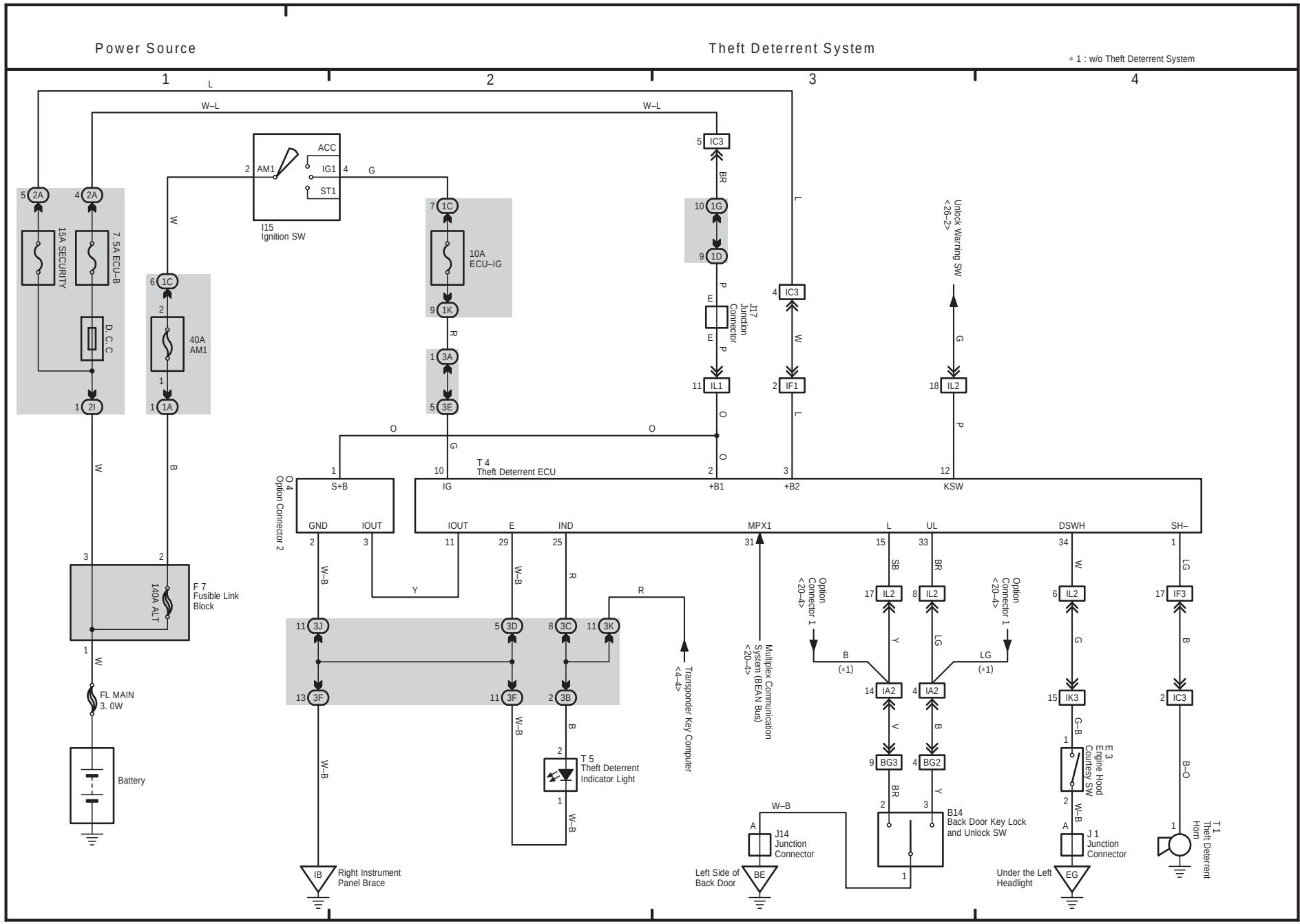
Power Window



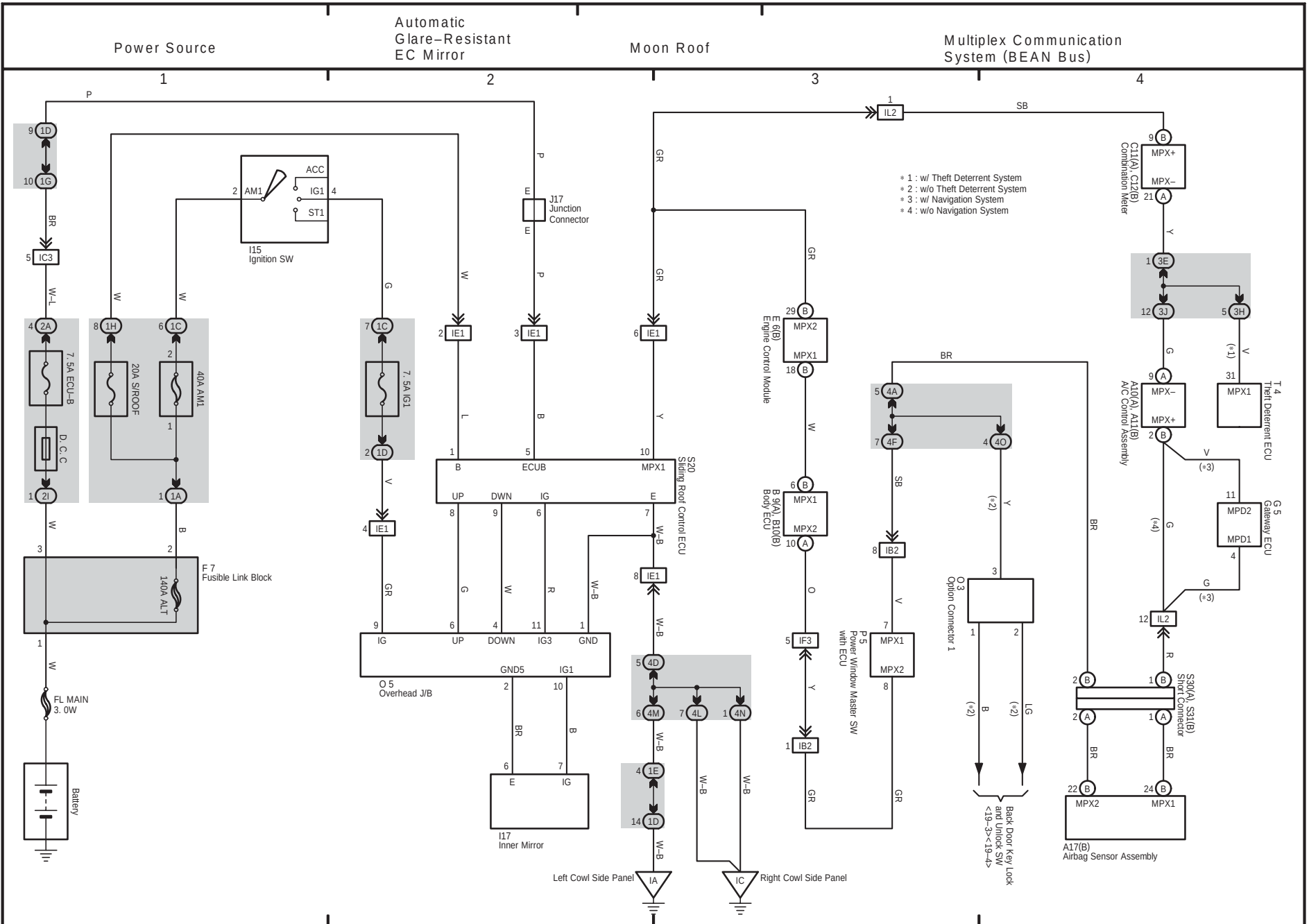




19 HIGHLANDER



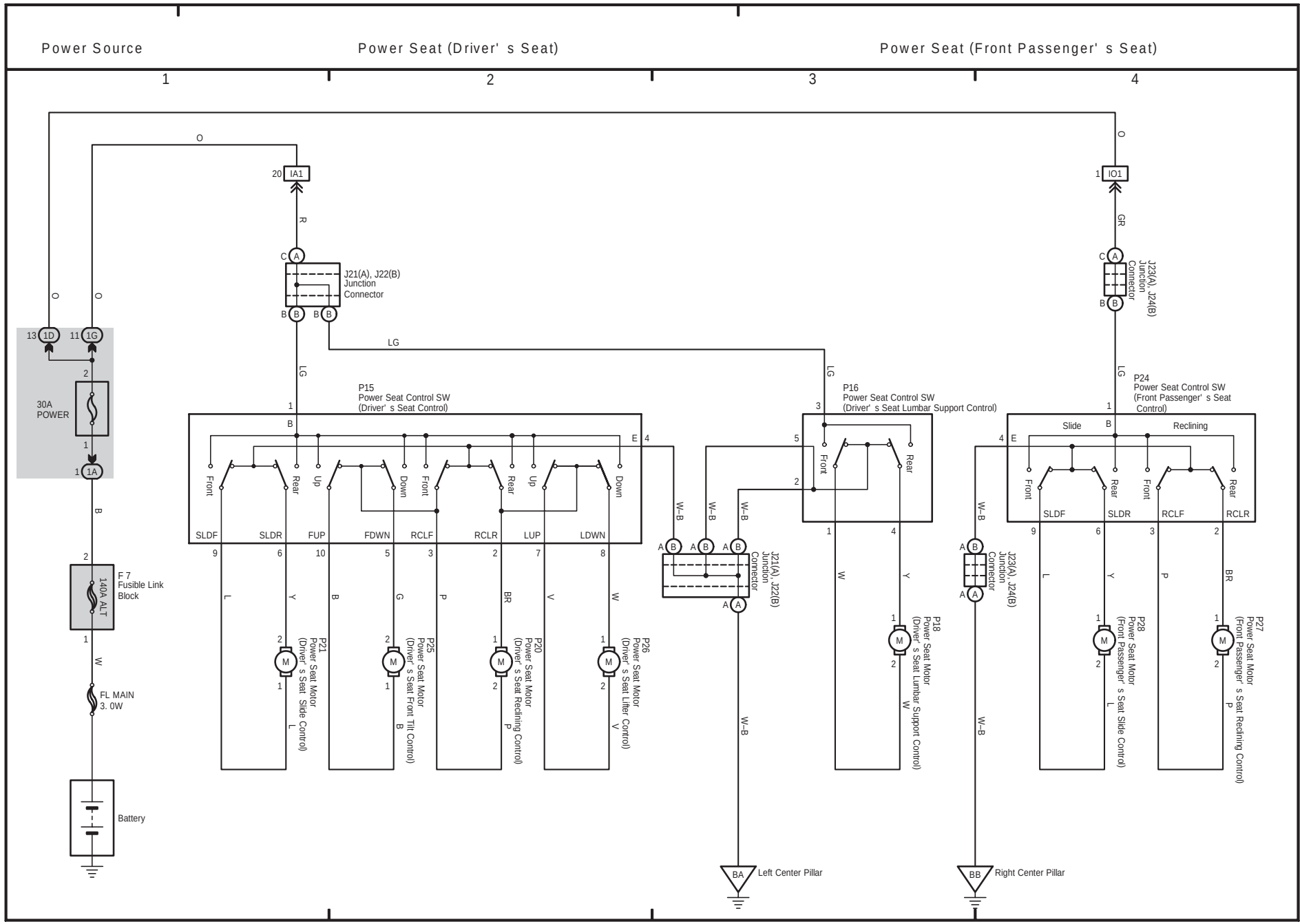
20 HIGHLANDER

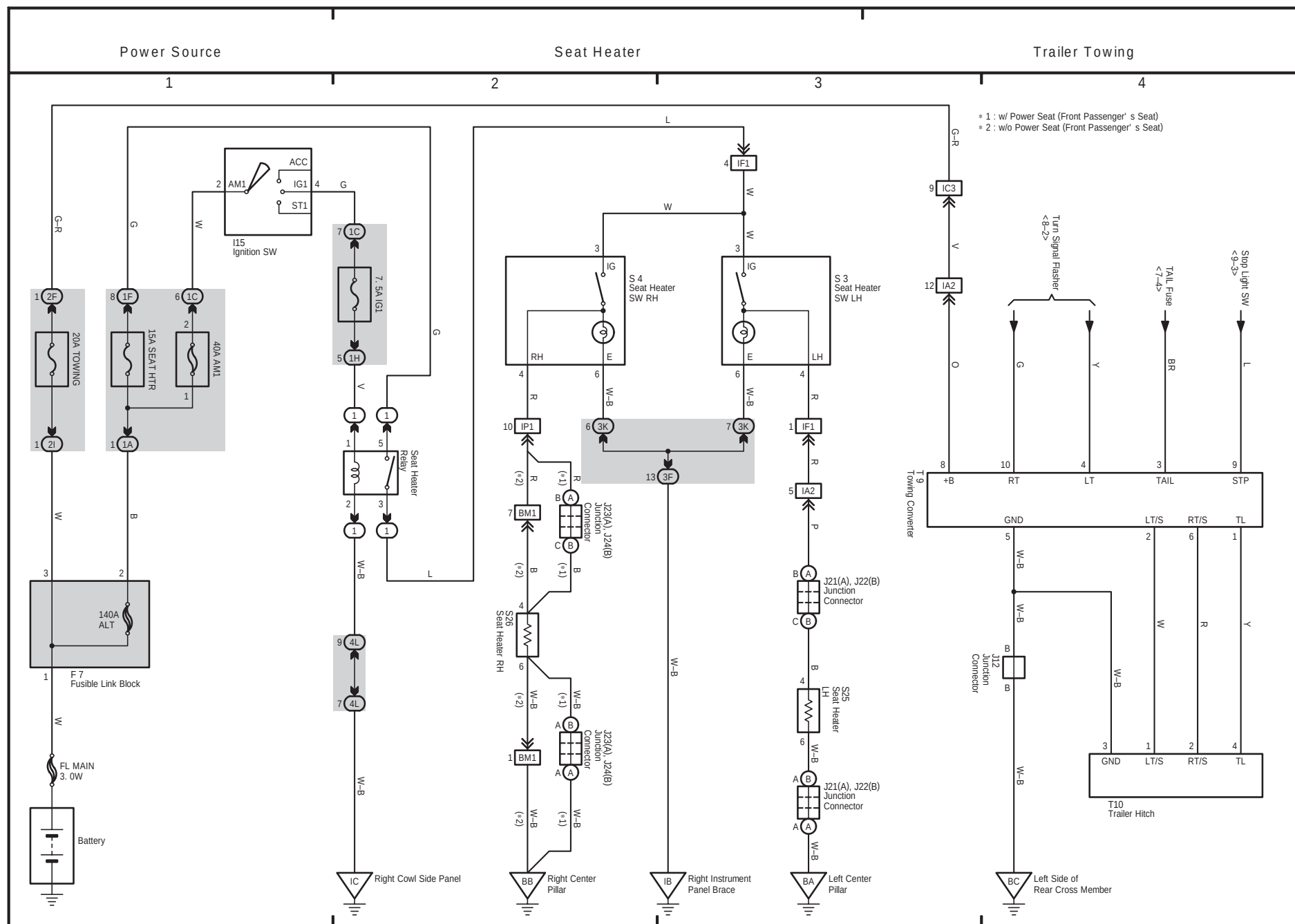


21 HIGHLANDER

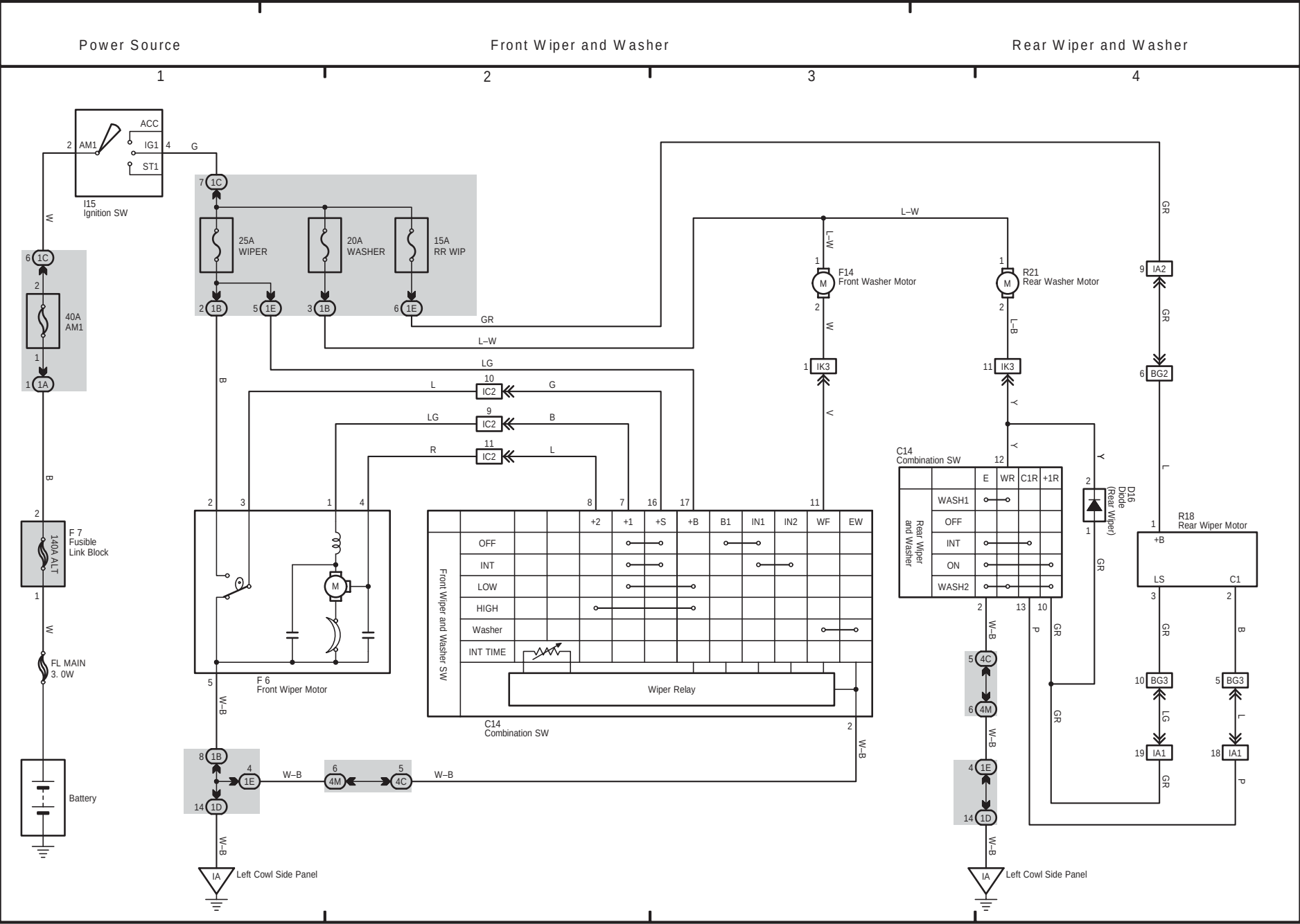
376

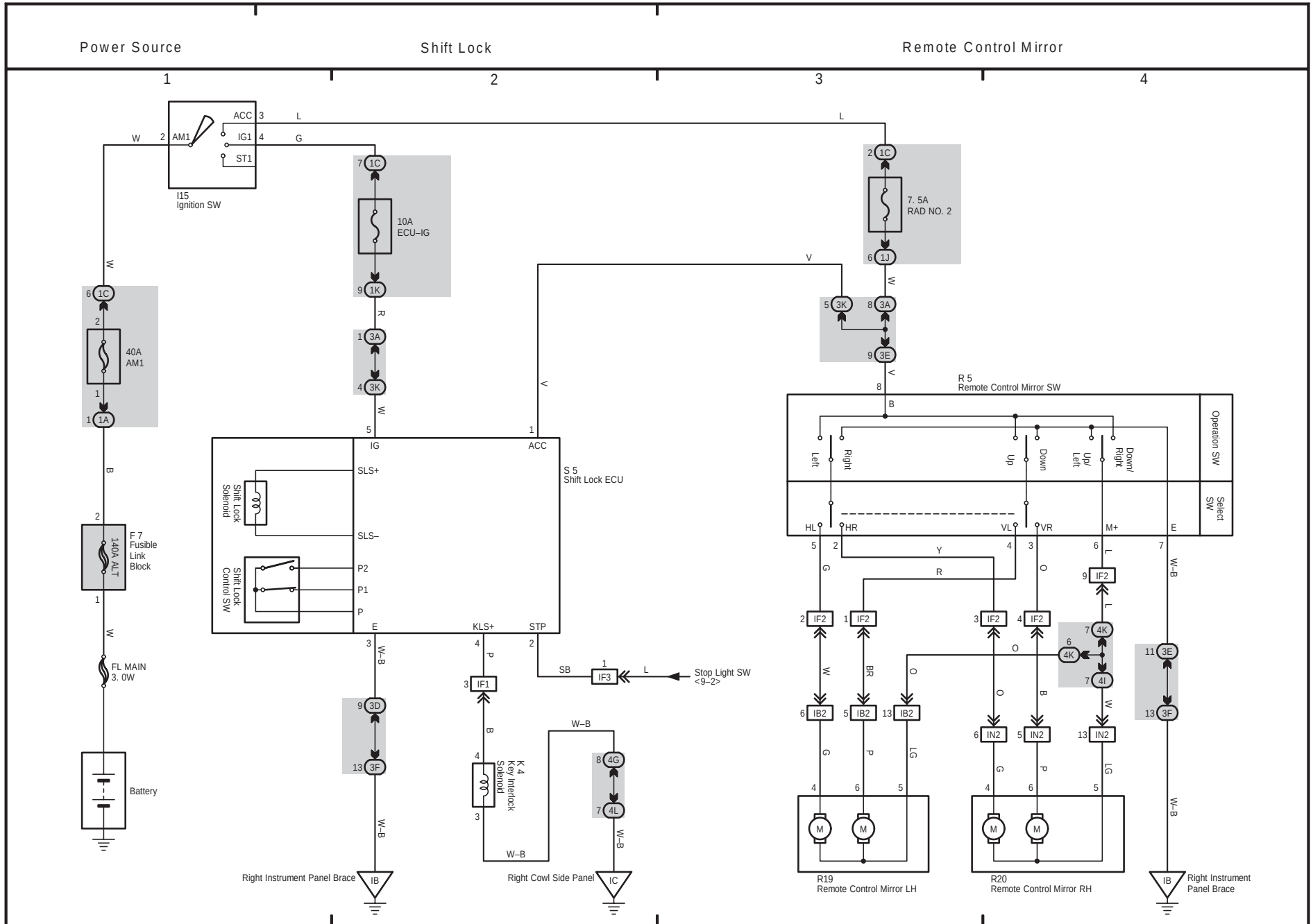
HIGHLANDER (EM0120U)

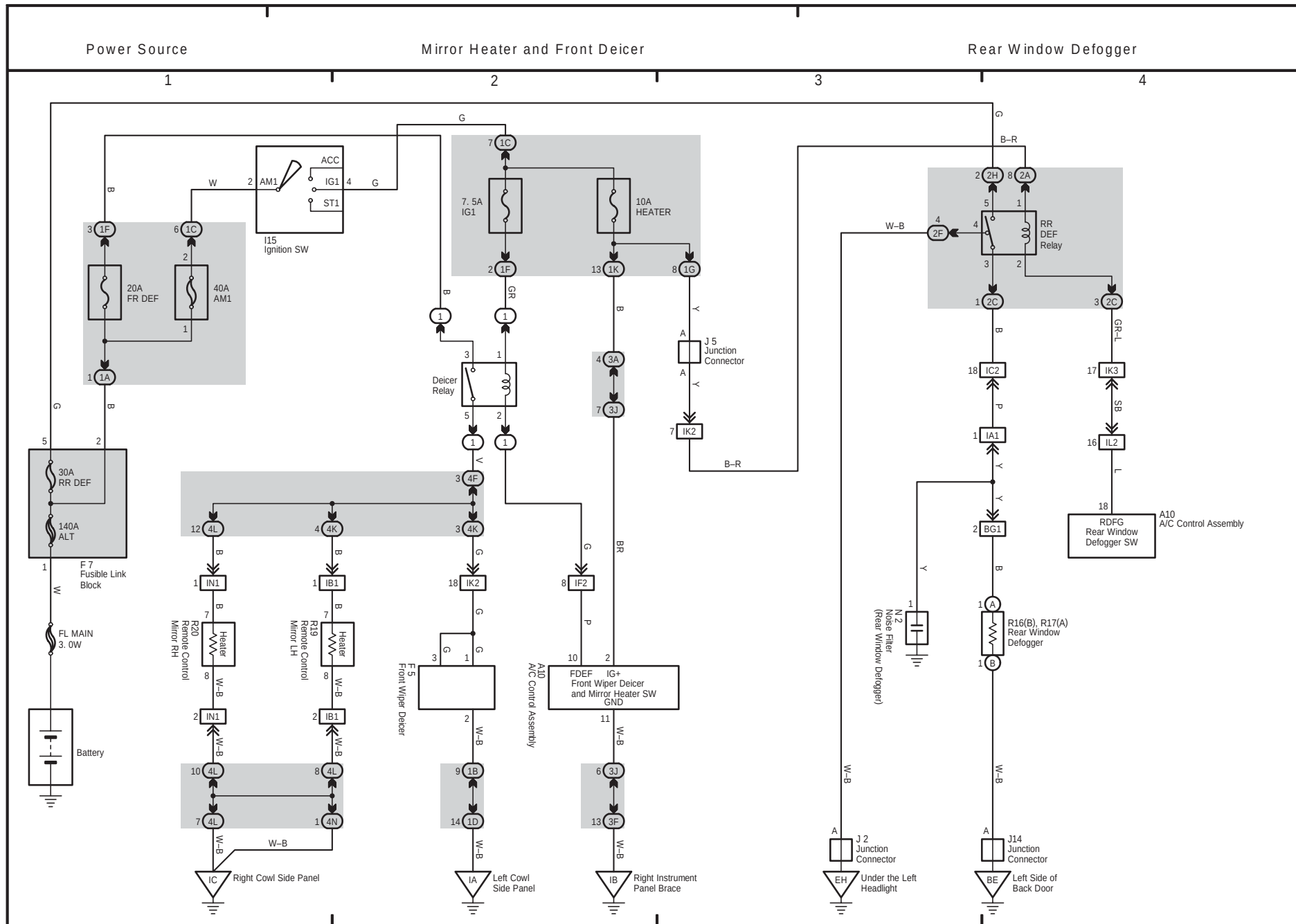


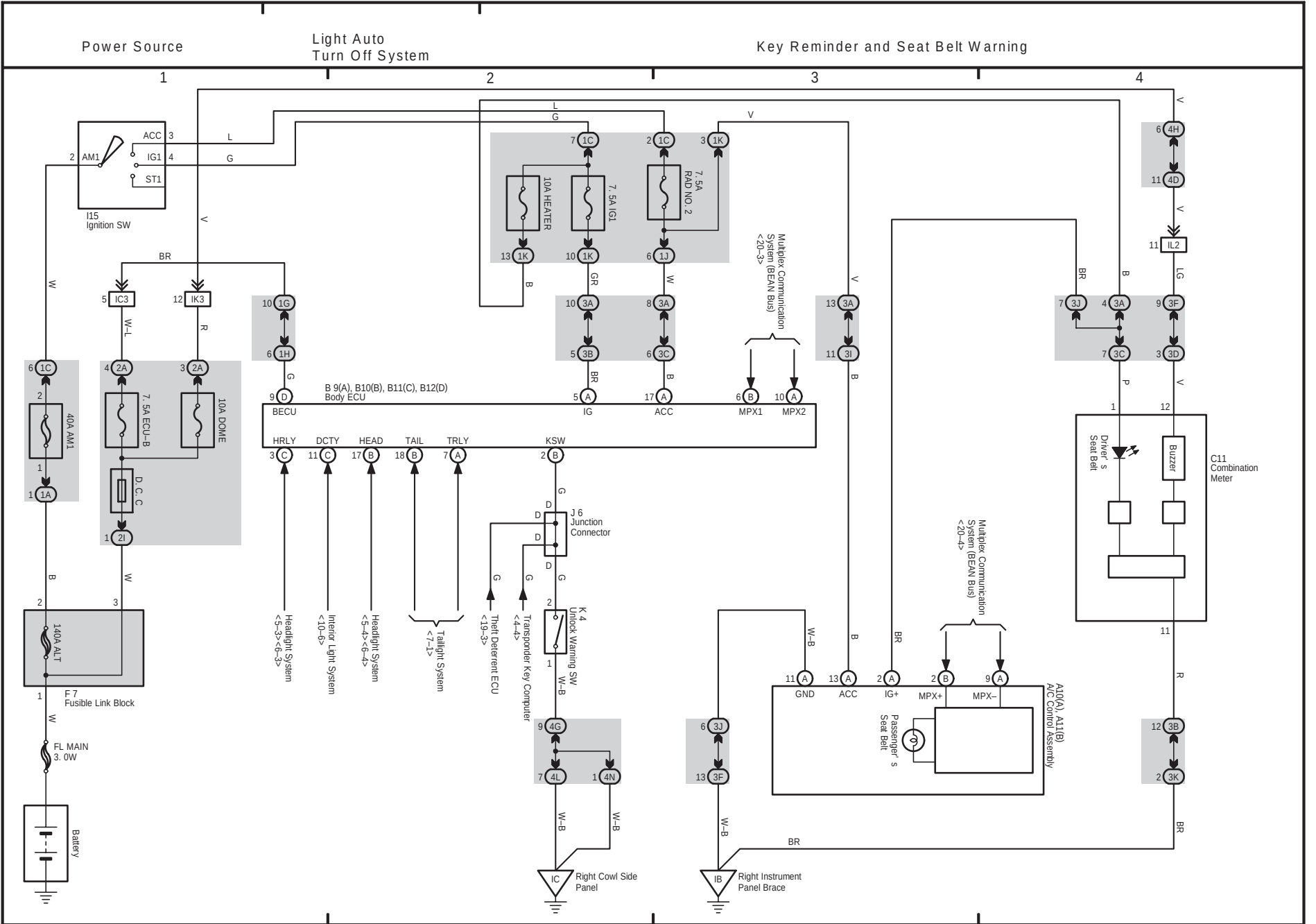


23 HIGHLANDER

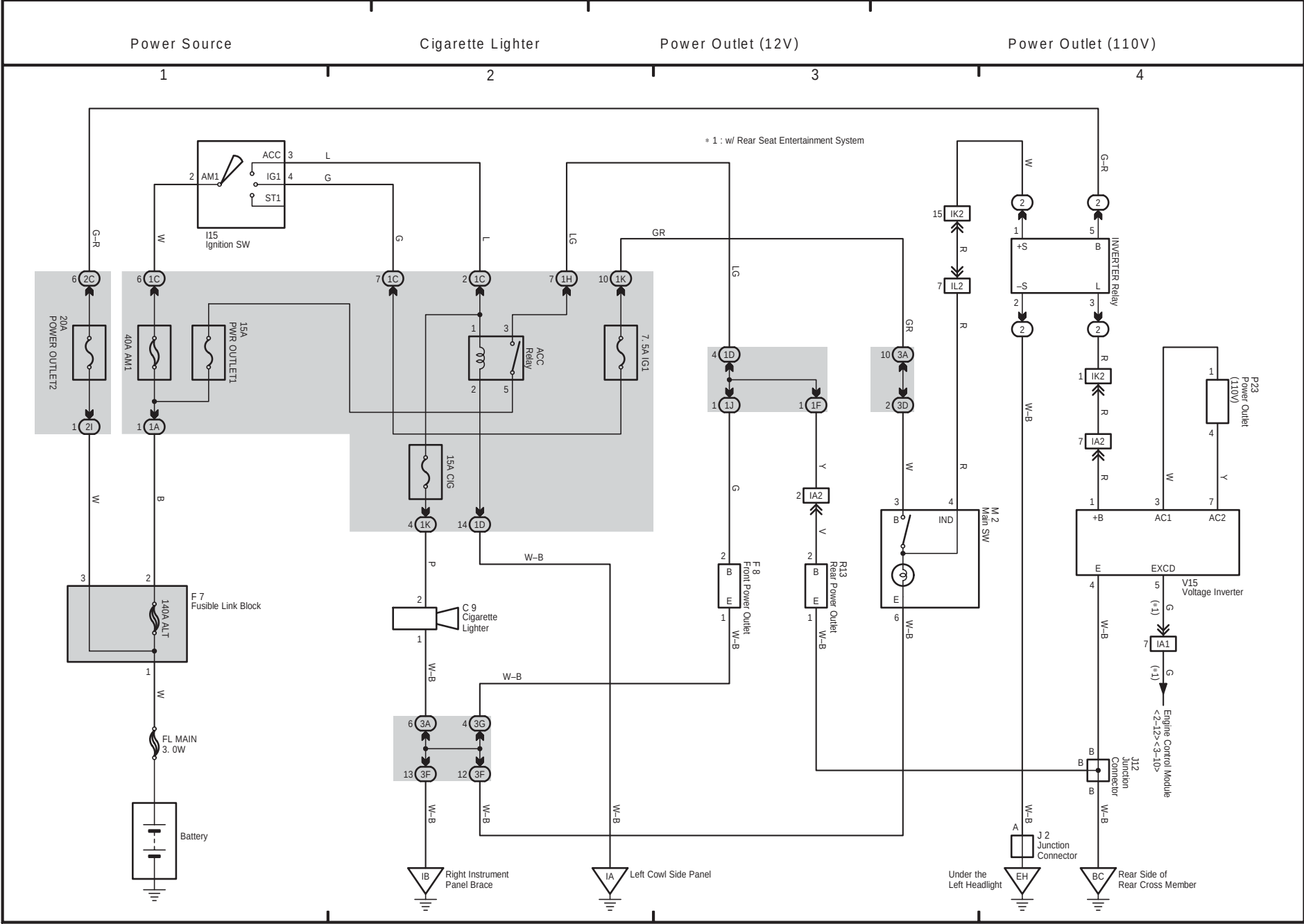


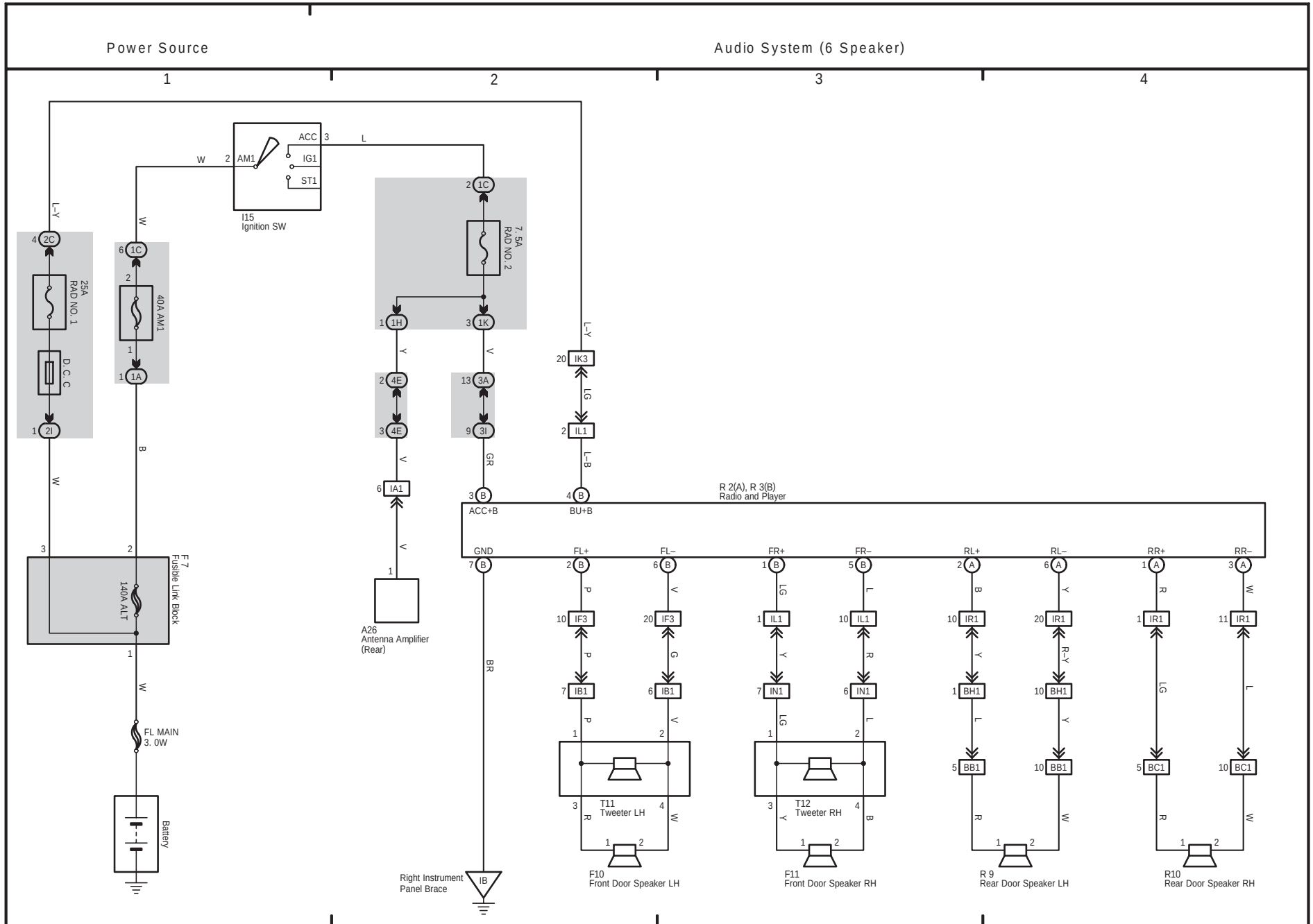




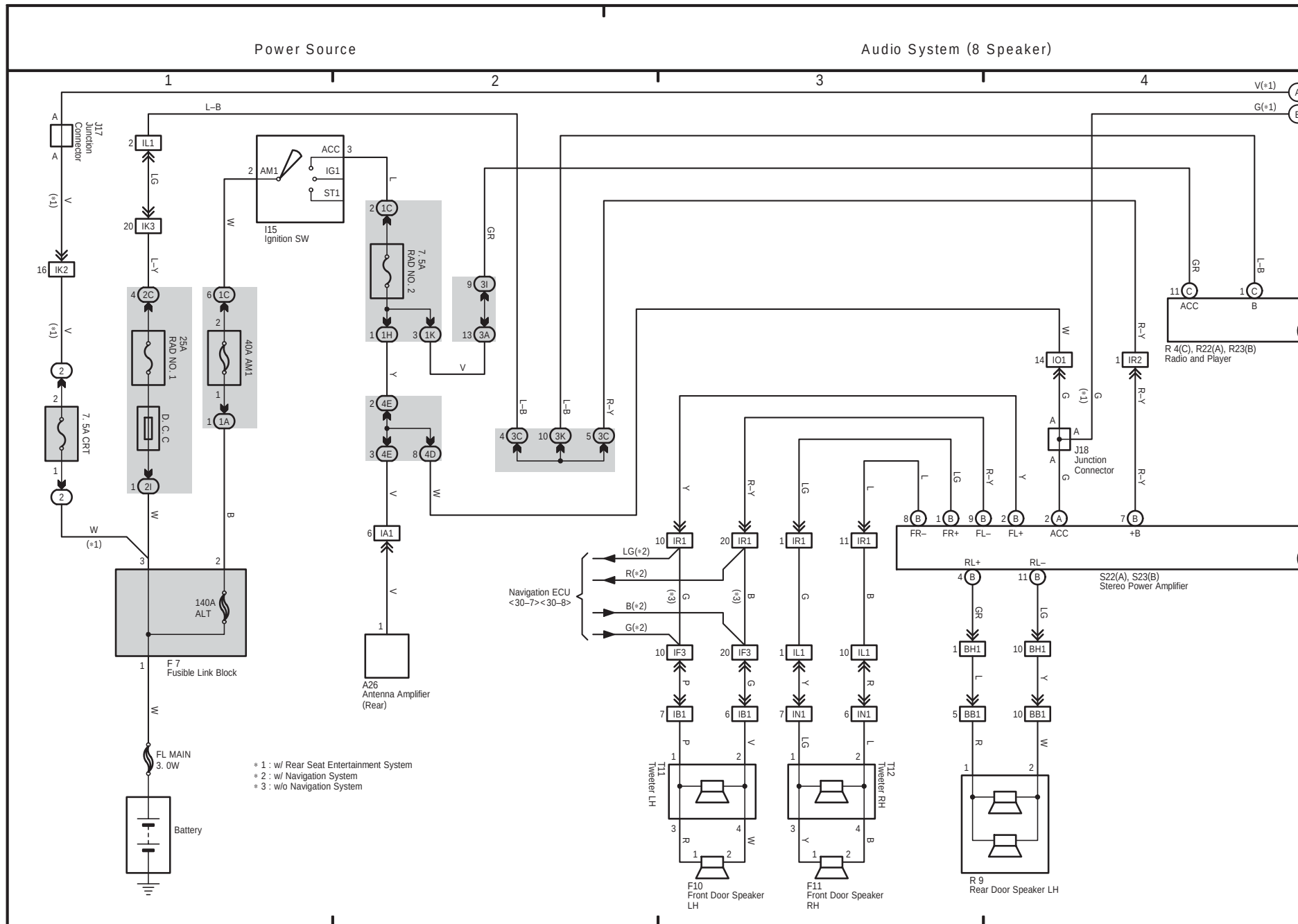


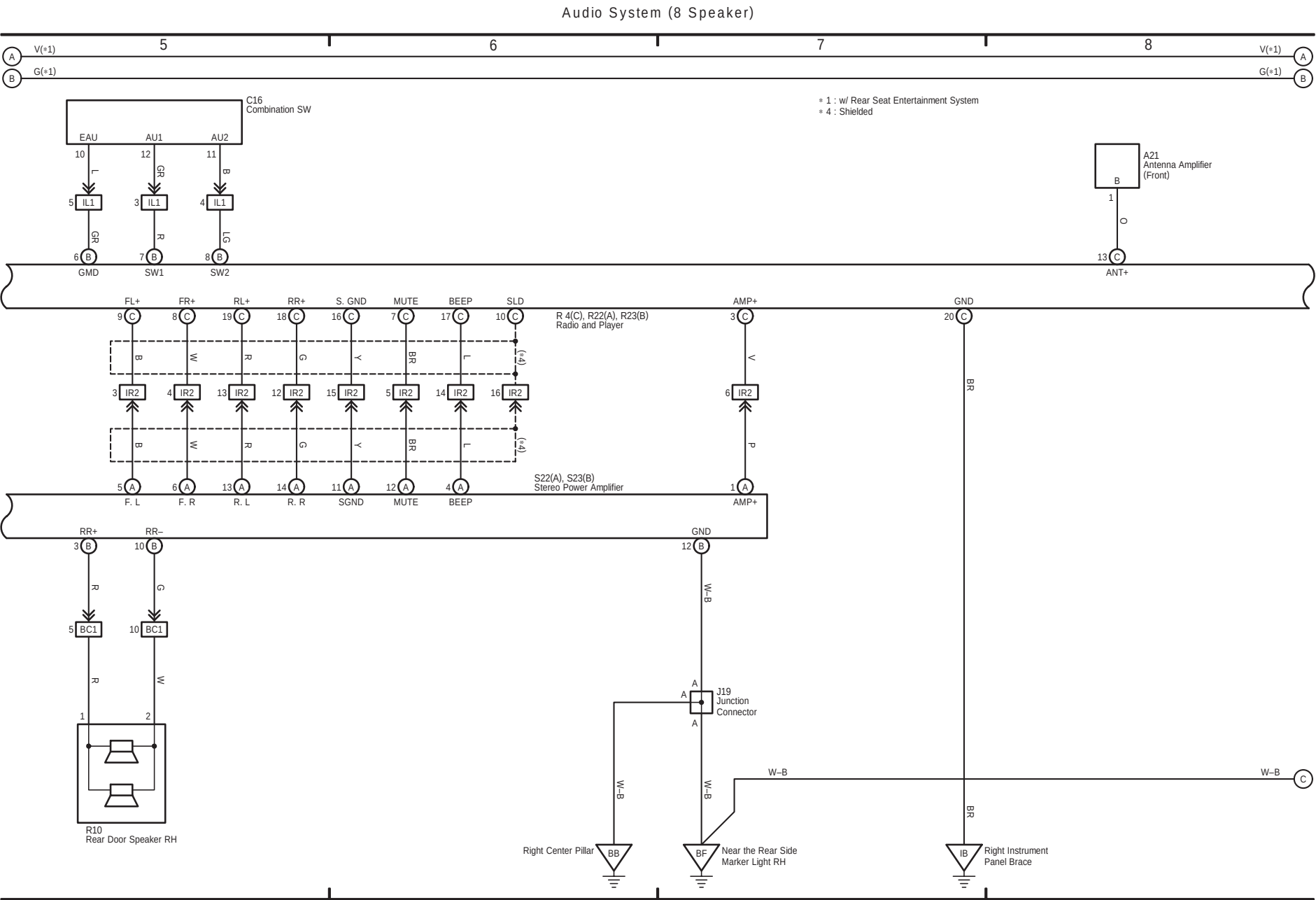
27 HIGHLANDER

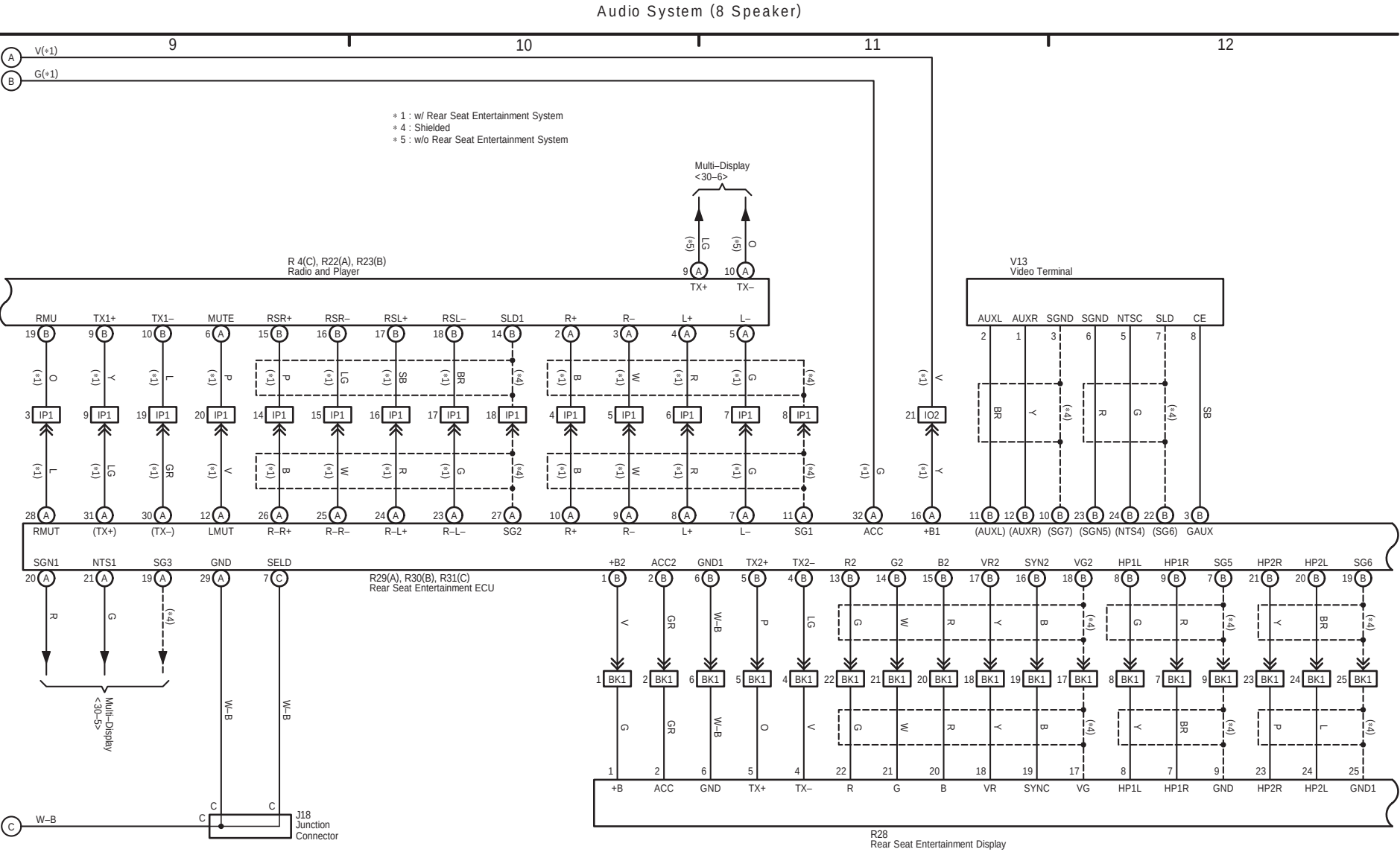




HIGHLANDER (EM0120U)







Audio System (8 Speaker)

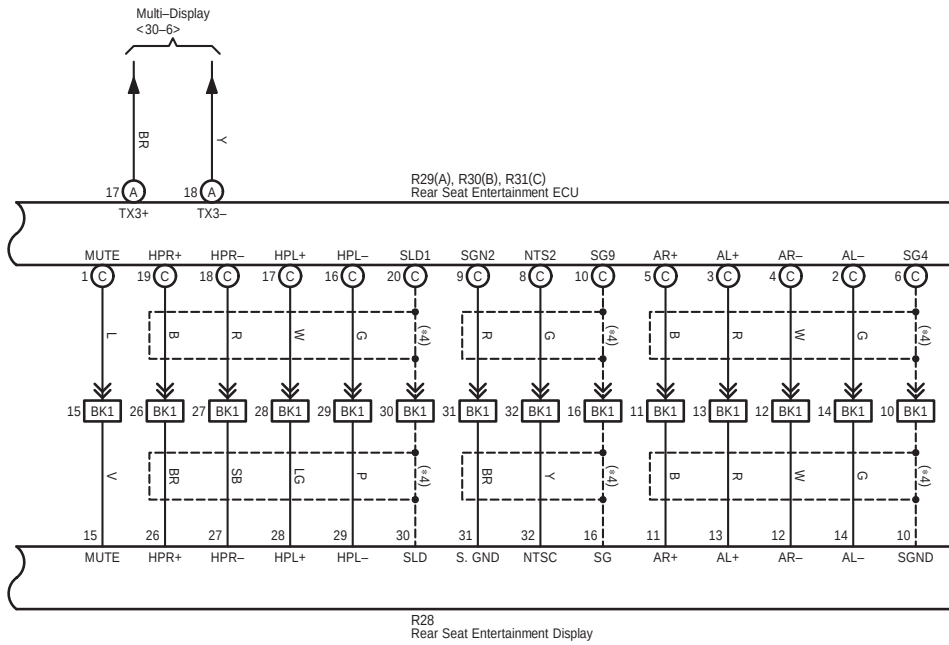
13

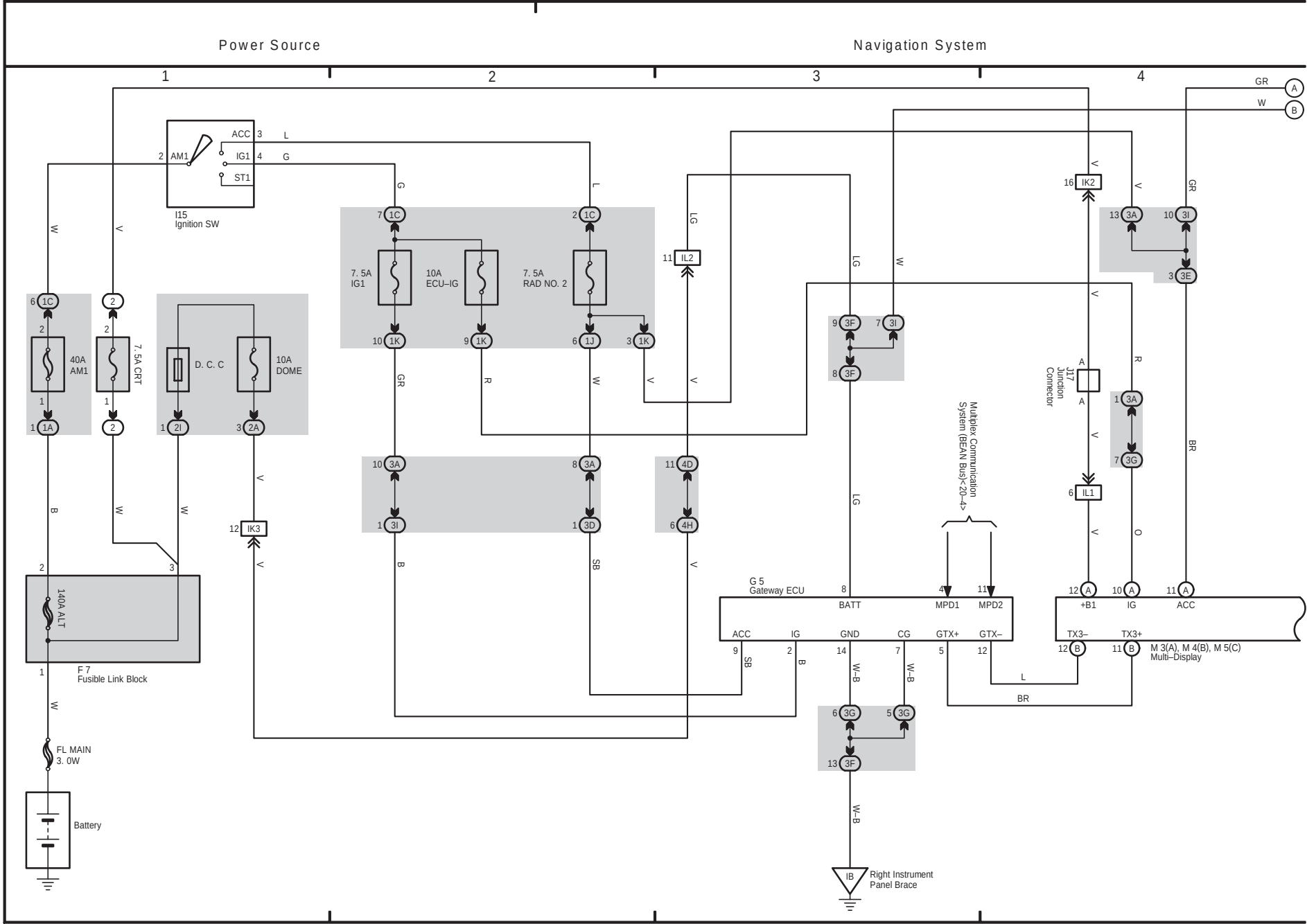
14

15

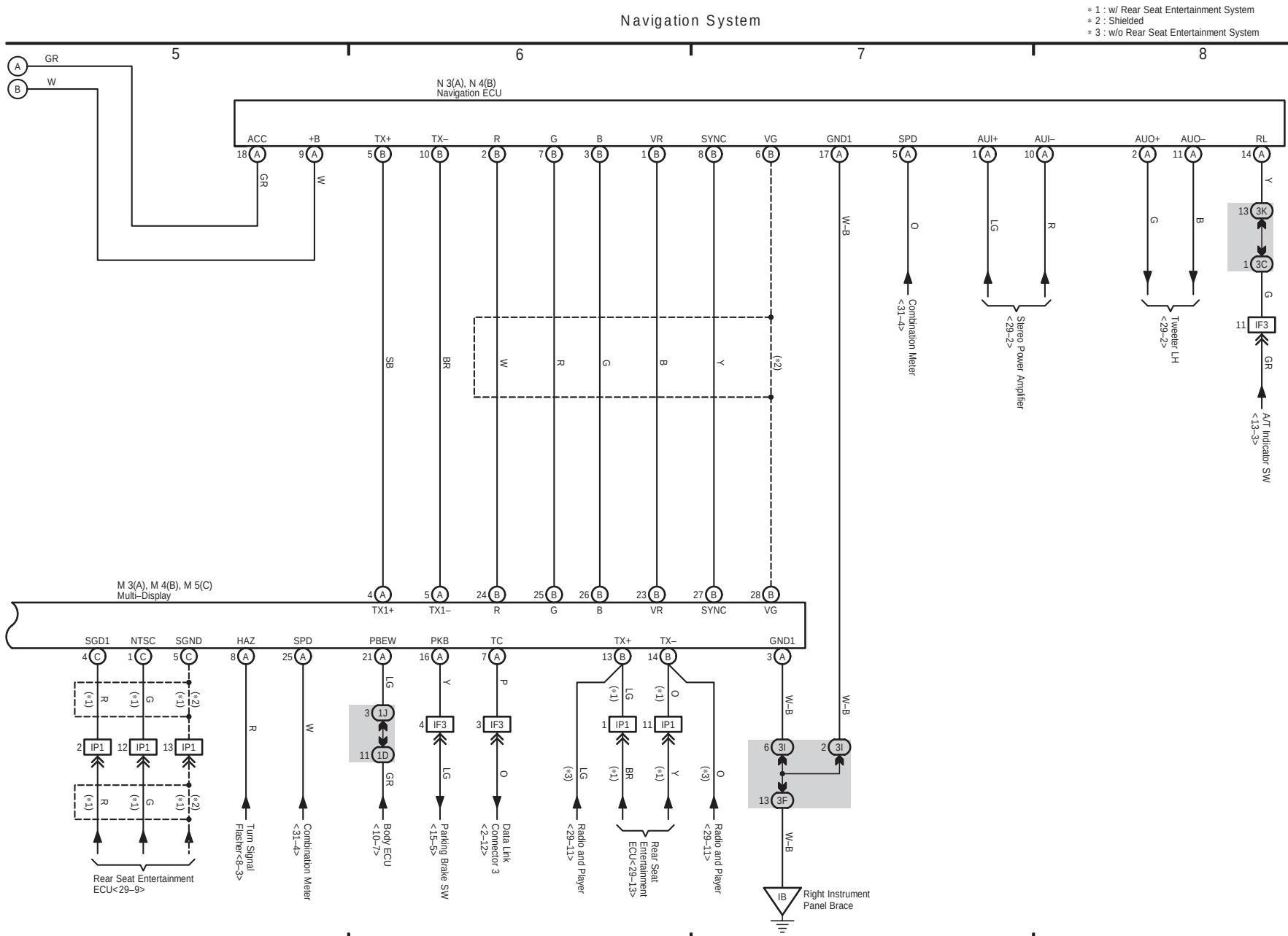
16

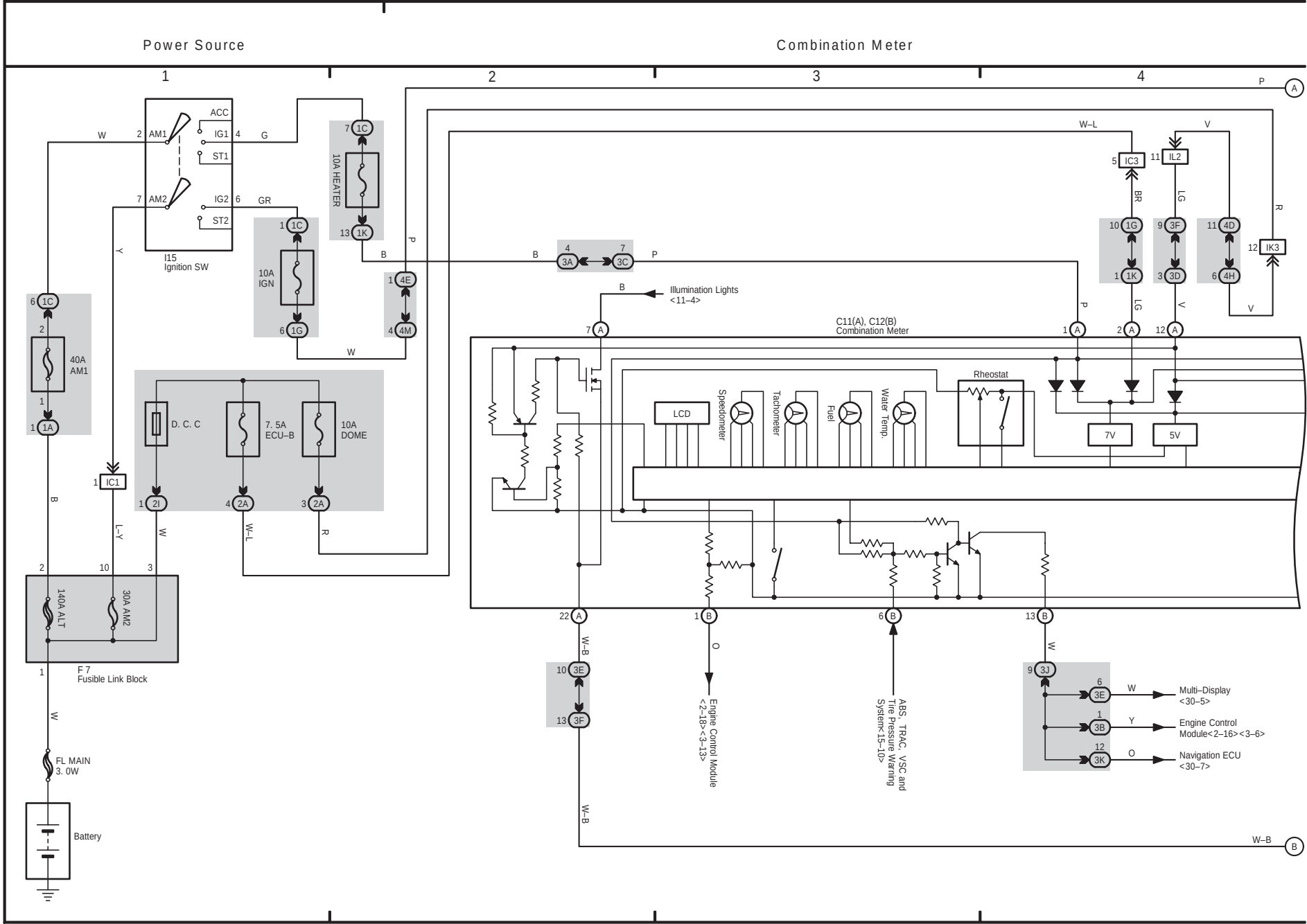
* 4 : Shielded



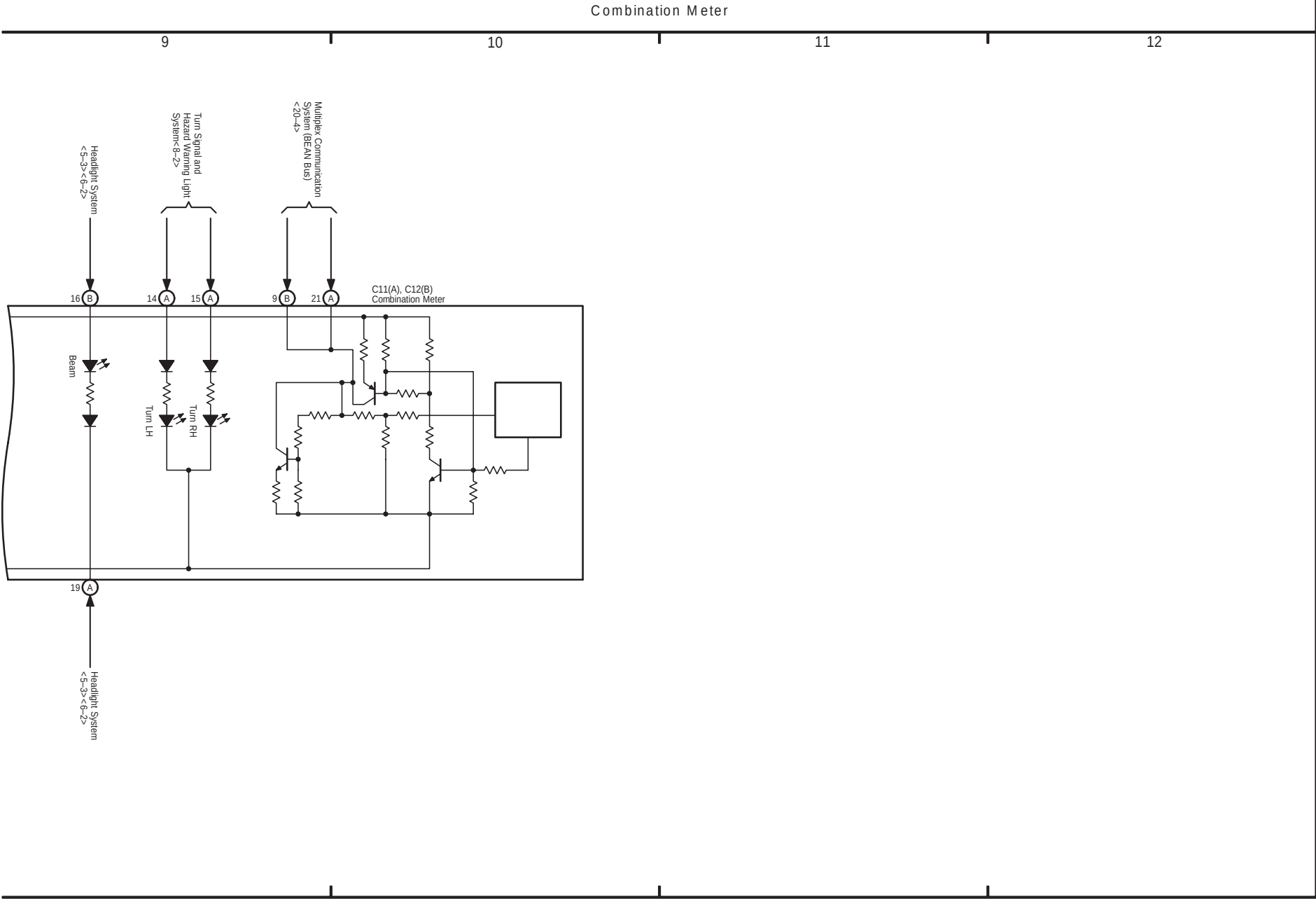


30 HIGHLANDER (Cont' d)







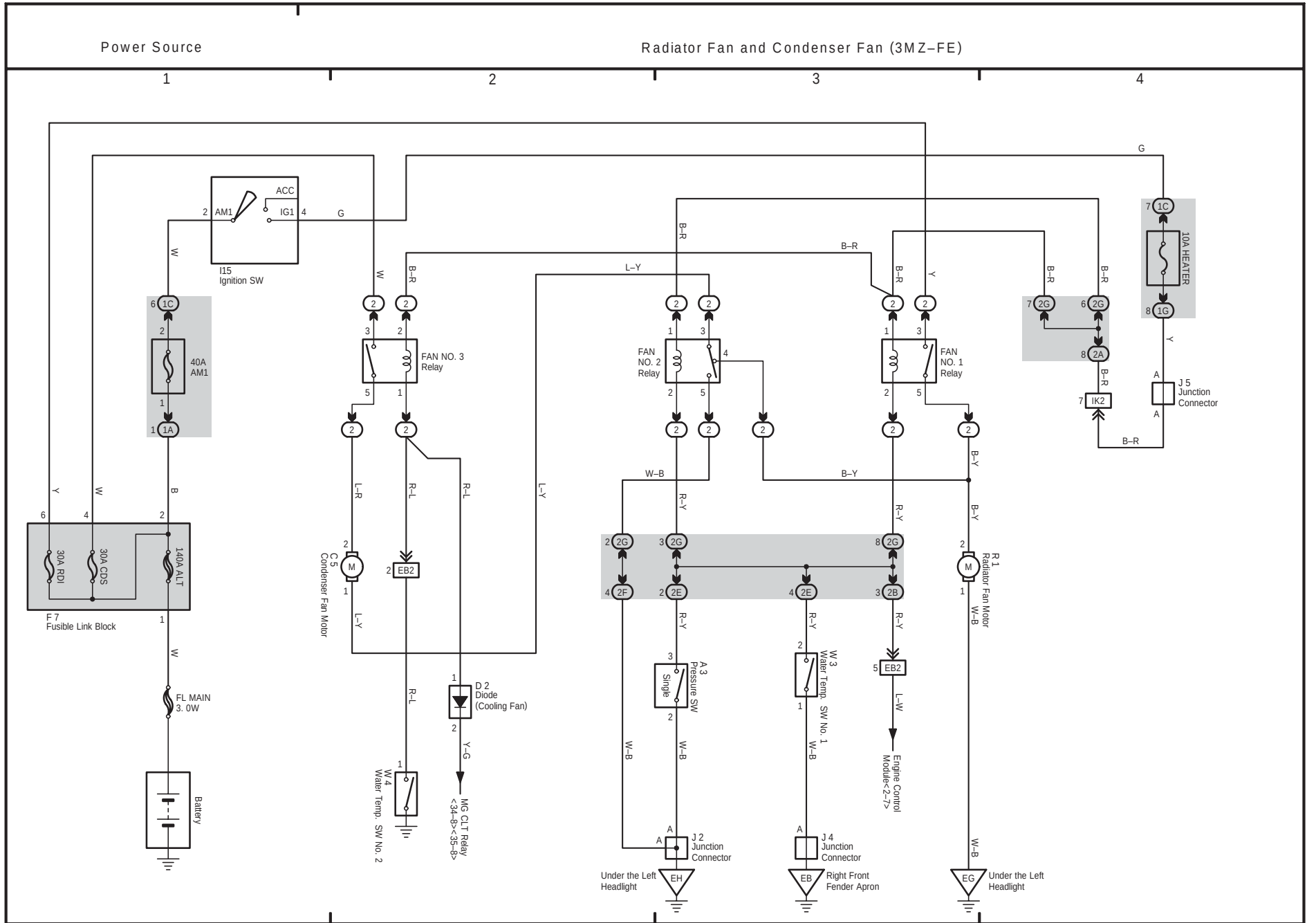


31 HIGHLANDER (Cont' d)

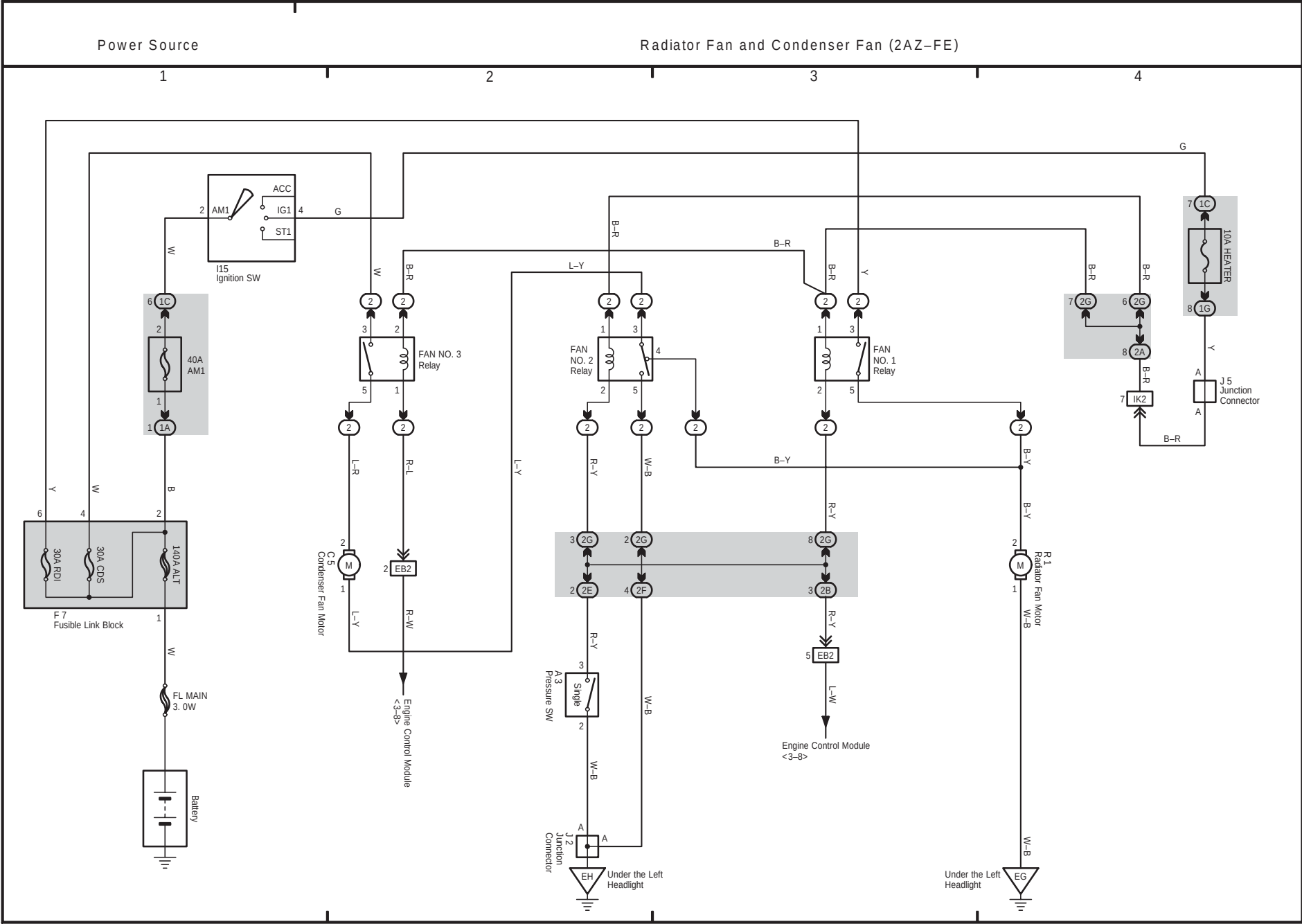
32 HIGHLANDER

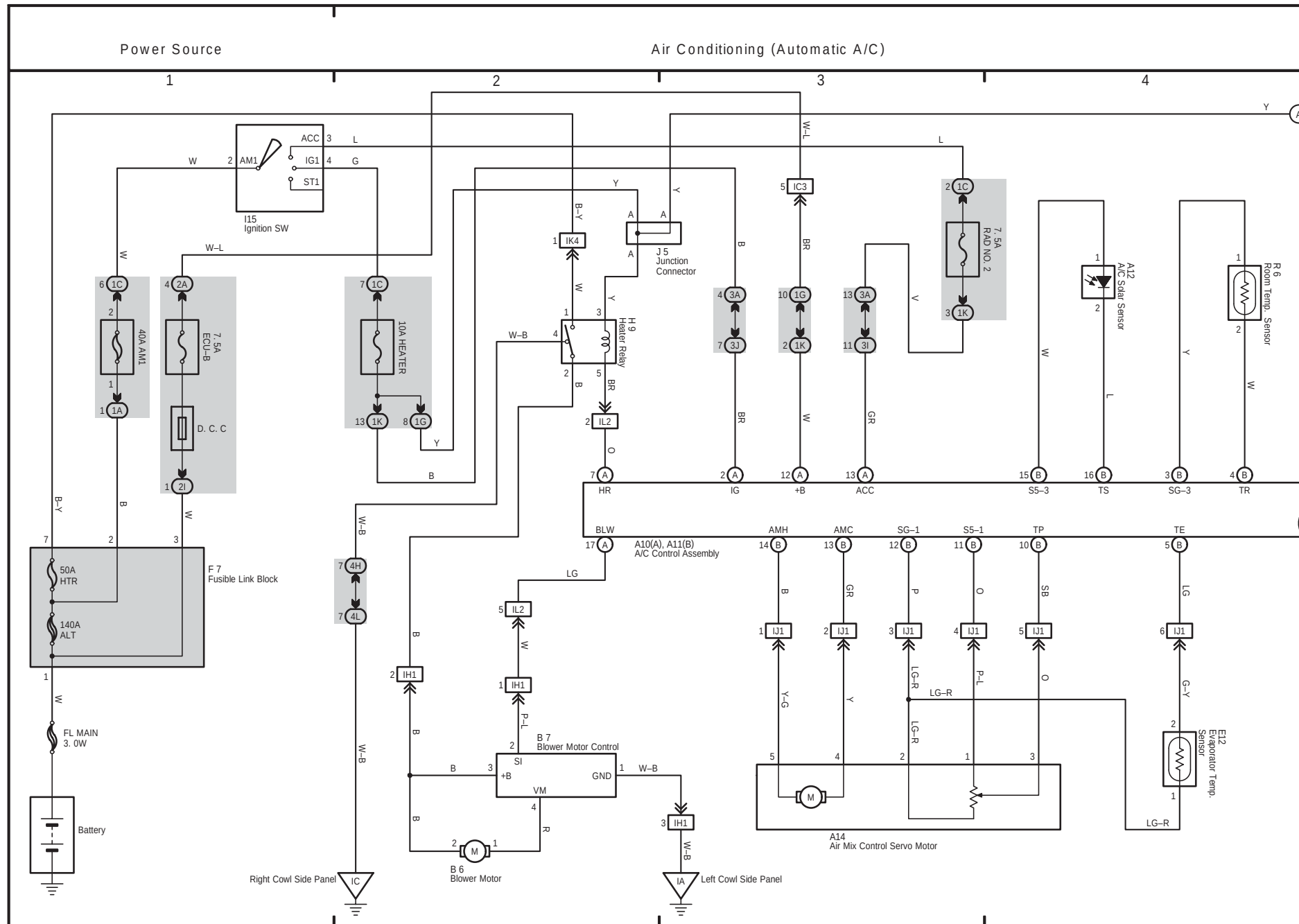
HIGHLANDER (EM0120U)

393



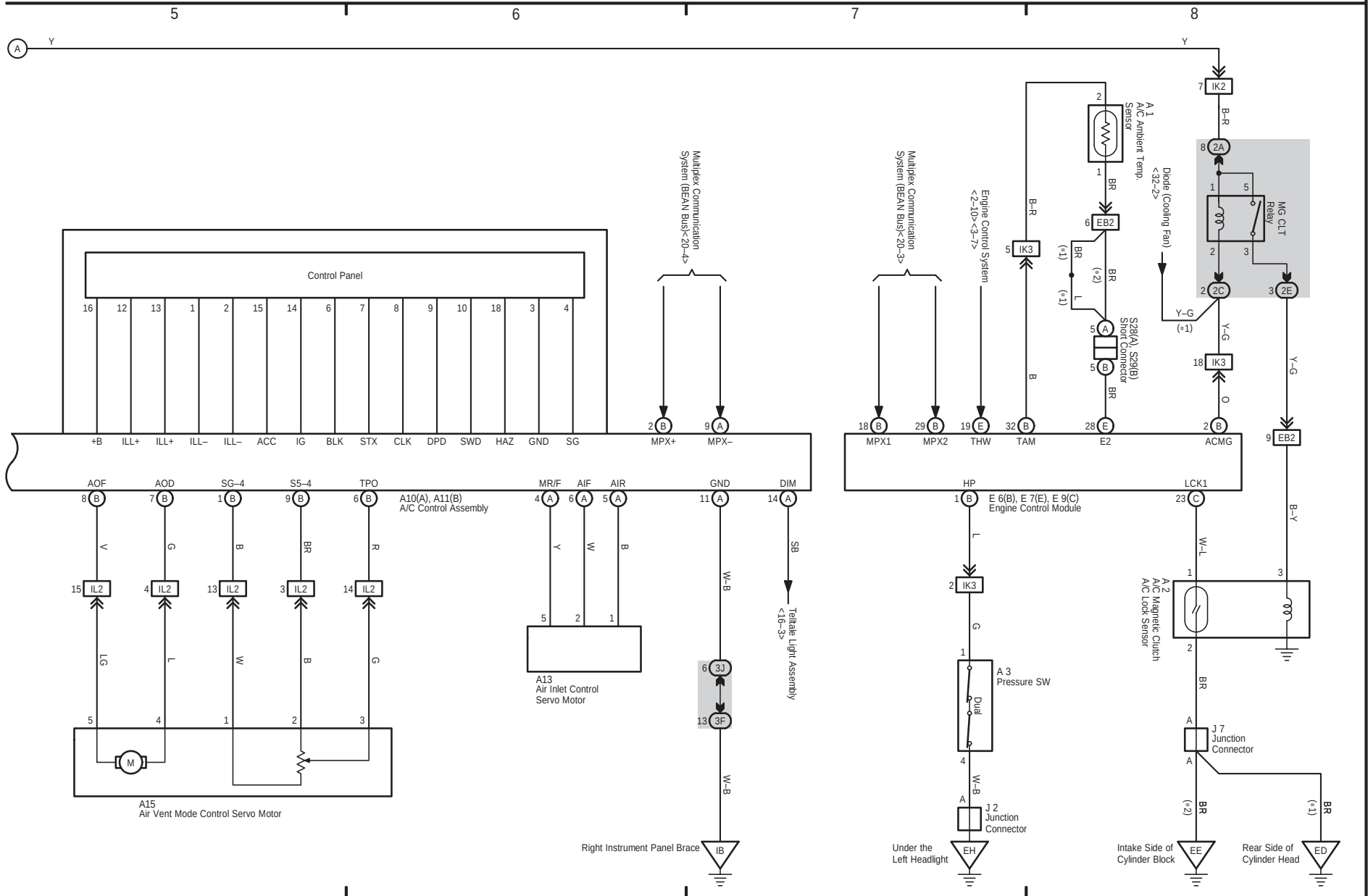
33 HIGHLANDER

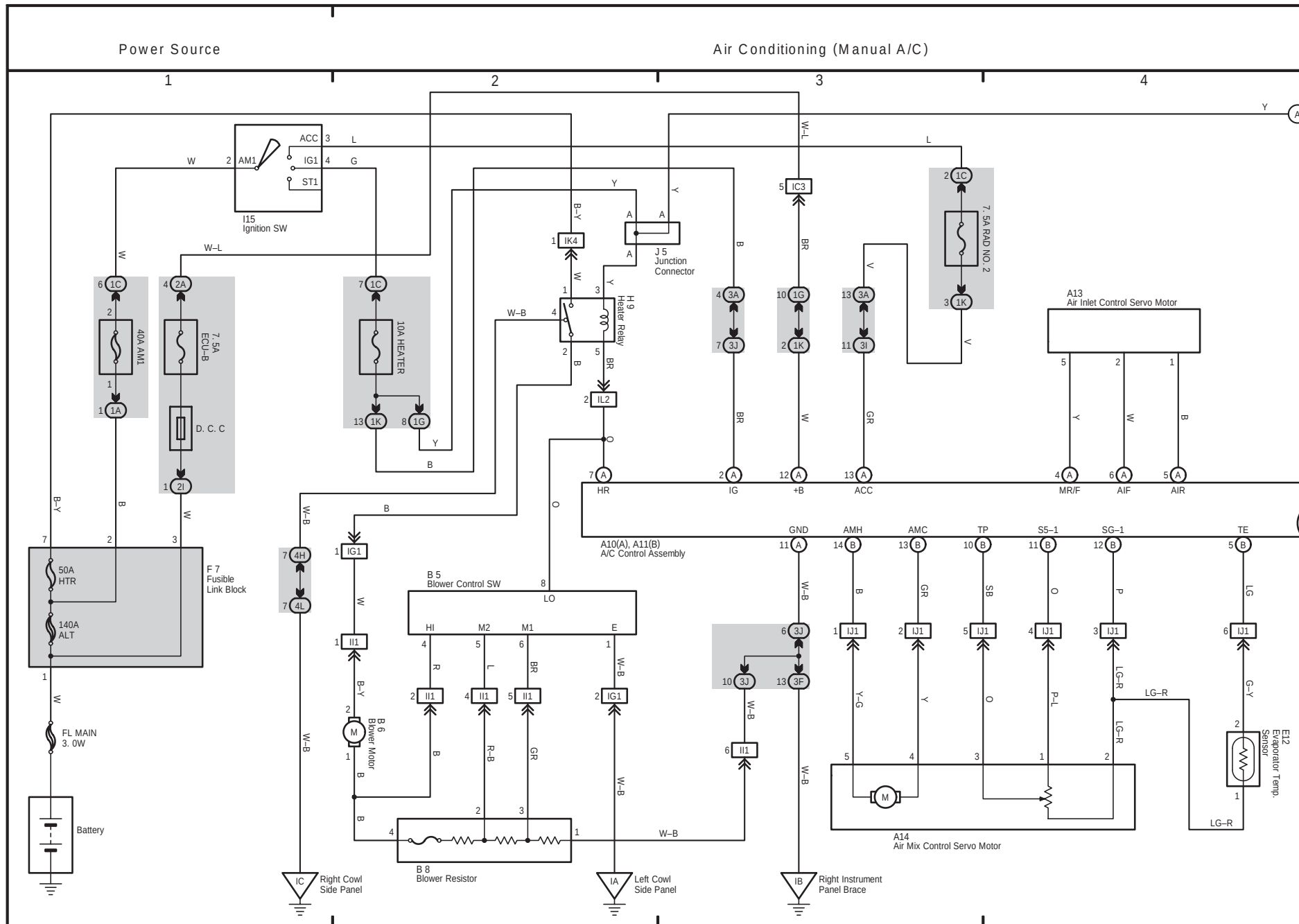




Air Conditioning (Automatic A/C)

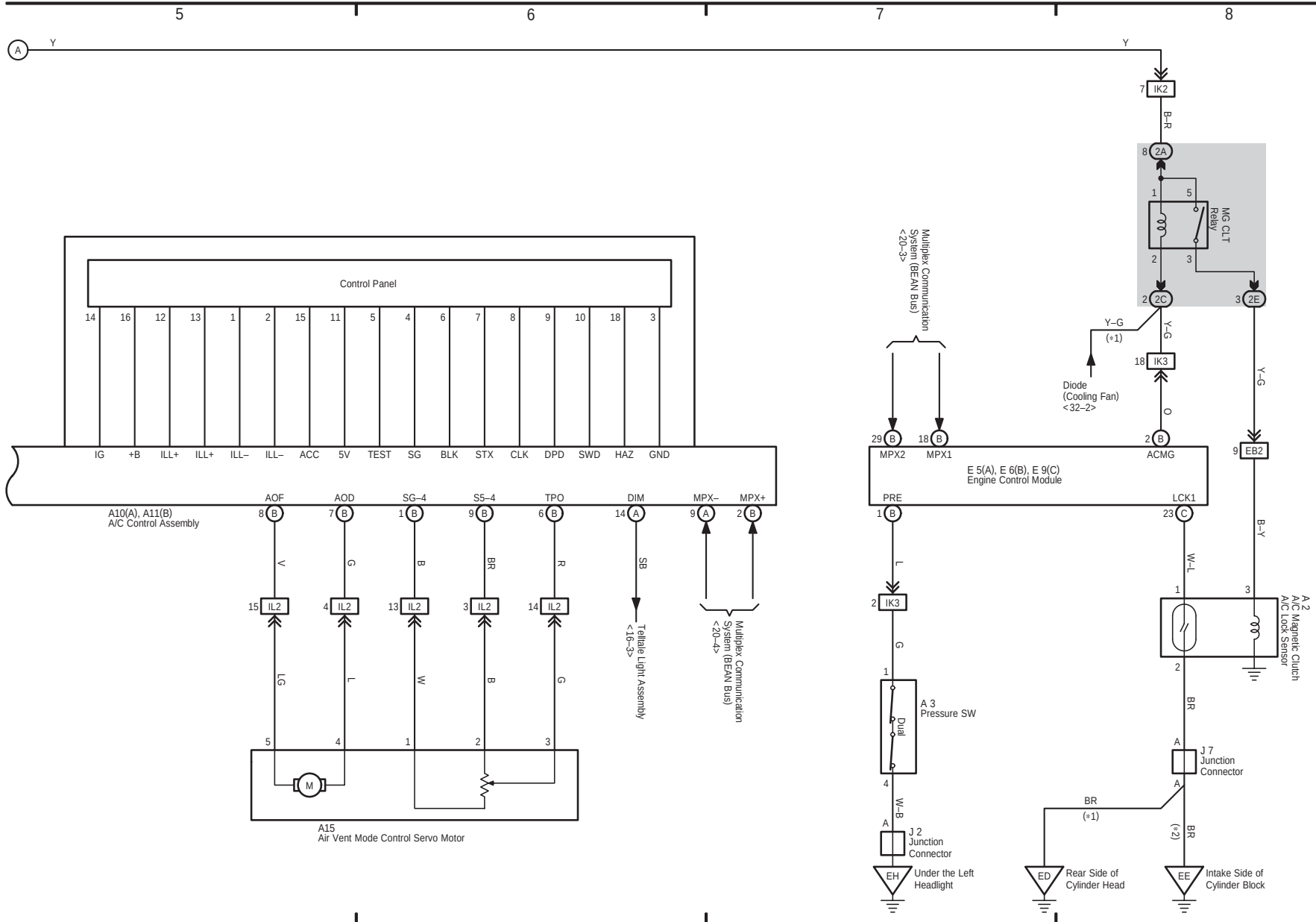
* 1 : 3MZ-FE
* 2 : 2AZ-FE





Air Conditioning (Manual A/C)

* 1 : 3MZ-FE
* 2 : 2AZ-FE



36 HIGHLANDER

400

HIGHLANDER (EM0120U)

