

# Power Source (1HD-FTE)

# Engine Control (1HD-FTE)

This wiring diagram illustrates the electrical system for the Power Source (1HD-FTE) and Engine Control (1HD-FTE). The diagram is divided into two main sections: Power Source (1HD-FTE) on the left and Engine Control (1HD-FTE) on the right.

**Power Source (1HD-FTE) Components:**

- BATTERY:** Connected to the main power source.
- F17 FUSIBLE LINK BLOCK:** Contains fuses for 100A J/B NO. 2, 100A MAIN, and 140A ALT.
- 140A ALT:** Alternator output.
- 100A MAIN:** Main power fuse.
- 100A J/B NO. 2:** Junction block fuse.
- EE1:** Engine Earth 1.
- 2B, 2D, 2G:** Various electrical components.
- IG1:** Ignition 1.
- 1E, 1N, 10, 15, 14:** Various electrical components.
- 20A AM1 NO. 2:** 20A fuse for AM1 NO. 2.
- 20A AM2:** 20A fuse for AM2.
- 20A EFI or ECD:** 20A fuse for EFI or ECD.
- 30A AM2:** 30A fuse for AM2.
- 10A OBD:** 10A fuse for OBD.
- 15A ECU-B:** 15A fuse for ECU-B.

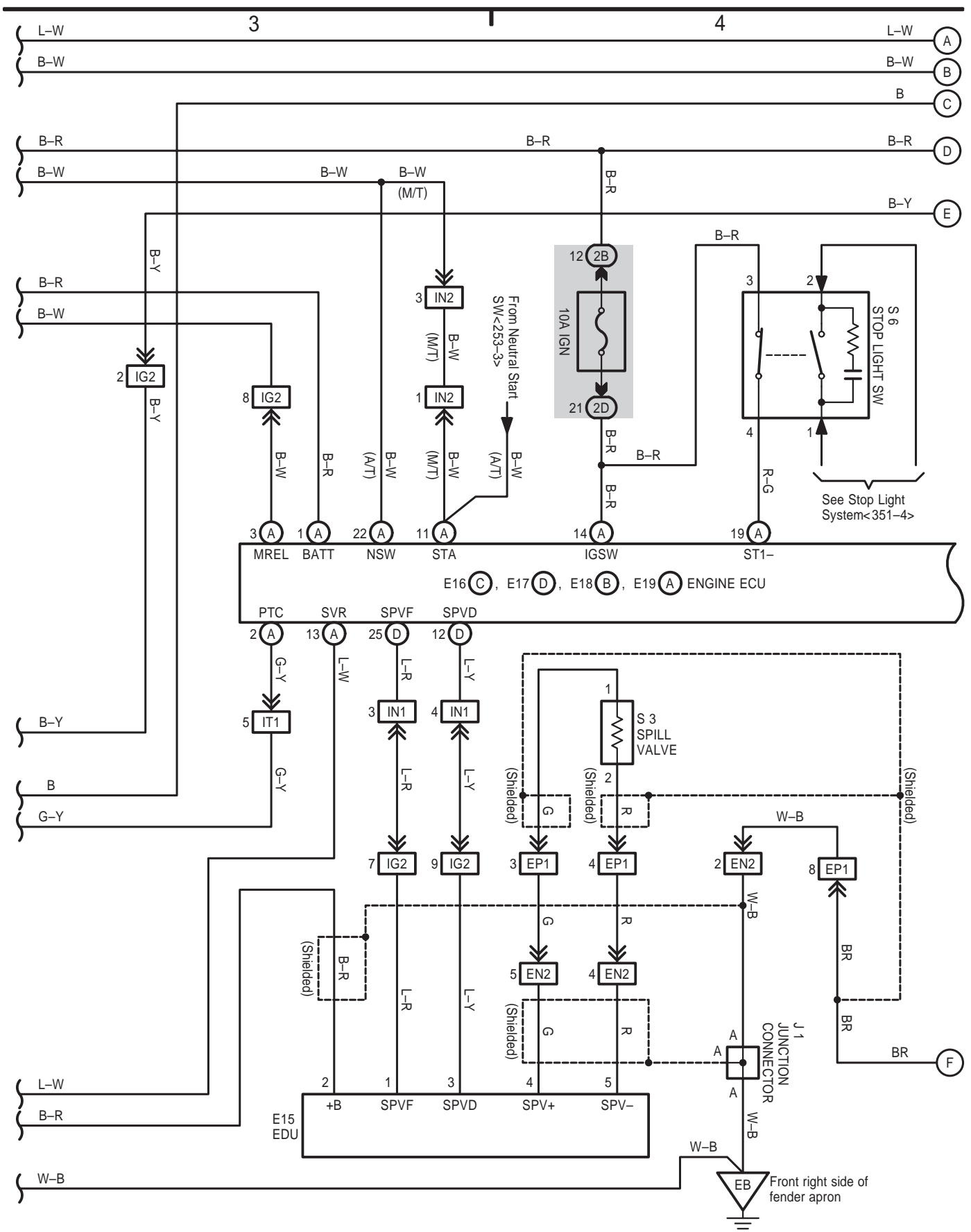
**Engine Control (1HD-FTE) Components:**

- I26 IGNITION SW:** Ignition switch with terminals AM1, AM2, IG2, ST2, ACC, IG1.
- J15 JUNCTION CONNECTOR:** Junction connector with terminals A, L-B, B-R, B-W.
- IG1 NO. 1 RELAY:** Relay with terminals 1, 2, 3, 4.
- EFI or ECD RELAY:** Relay with terminals 1, 2, 3, 4.
- SPLV RELAY:** Relay with terminals 1, 2, 3, 5, 15, 16, 19, 2B.
- I20 (A), I21 (B), I22 (C):** Various electrical components.
- INTAKE HEATER RELAY:** Relay with terminals 1, 2, 3, 4.
- I19 INTAKE HEATER:** Intake heater.
- W-R, B-R, B-W, L-W, B-Y, G-Y, W-B:** Various electrical components.

**Wiring Connections:**

- The BATTERY is connected to the 140A ALT and the 100A MAIN fuse.
- The 140A ALT is connected to the 100A MAIN fuse.
- The 100A MAIN fuse is connected to the 100A J/B NO. 2.
- The 100A J/B NO. 2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.
- The 20A AM1 NO. 2 is connected to the 20A AM2, 20A EFI or ECD, and 30A AM2.
- The 20A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A EFI or ECD.
- The 20A EFI or ECD is connected to the 30A AM2.
- The 30A AM2 is connected to the 10A OBD, 15A ECU-B, and 20A AM1 NO. 2.
- The 10A OBD is connected to the 15A ECU-B.
- The 15A ECU-B is connected to the 20A AM1 NO. 2.</

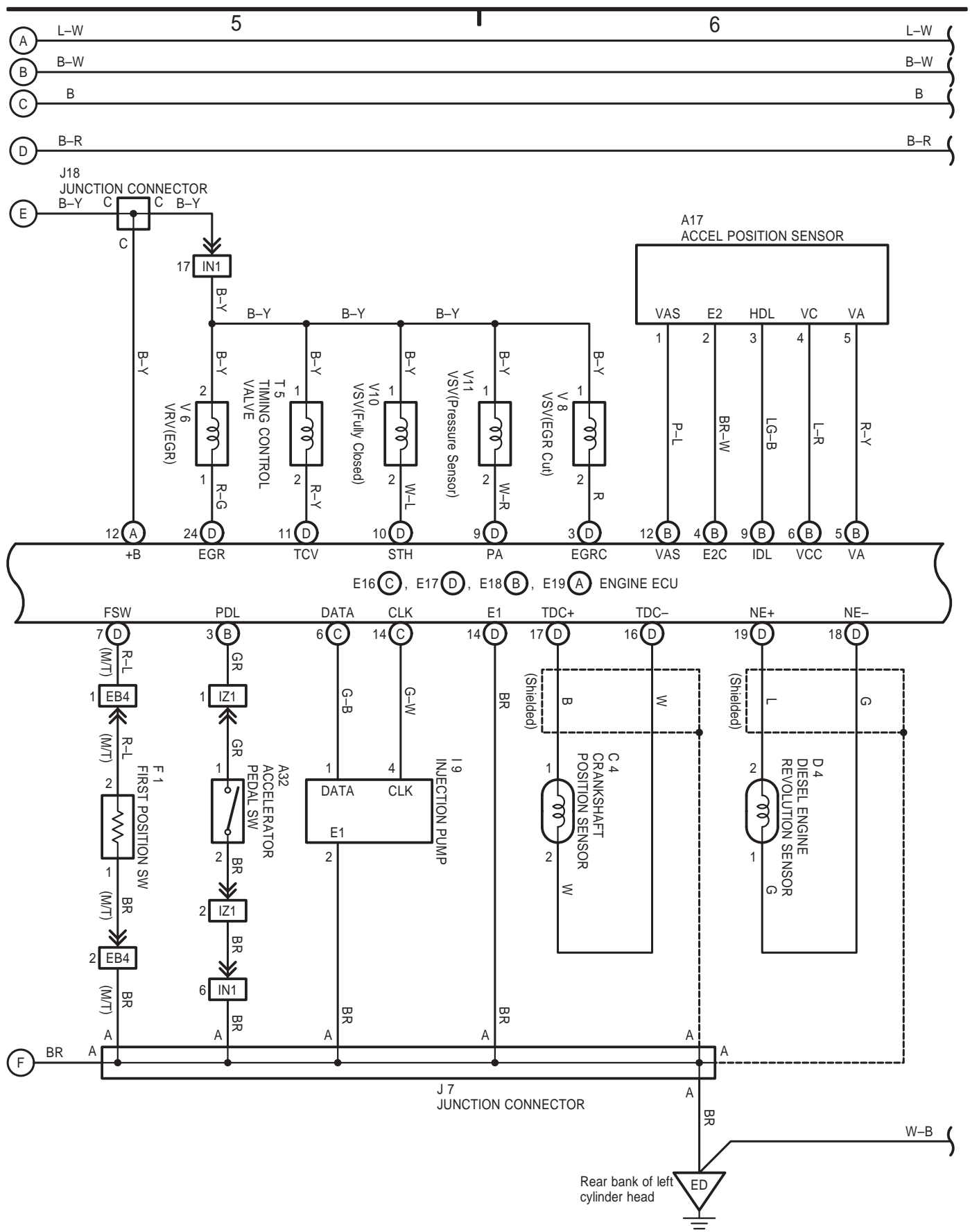
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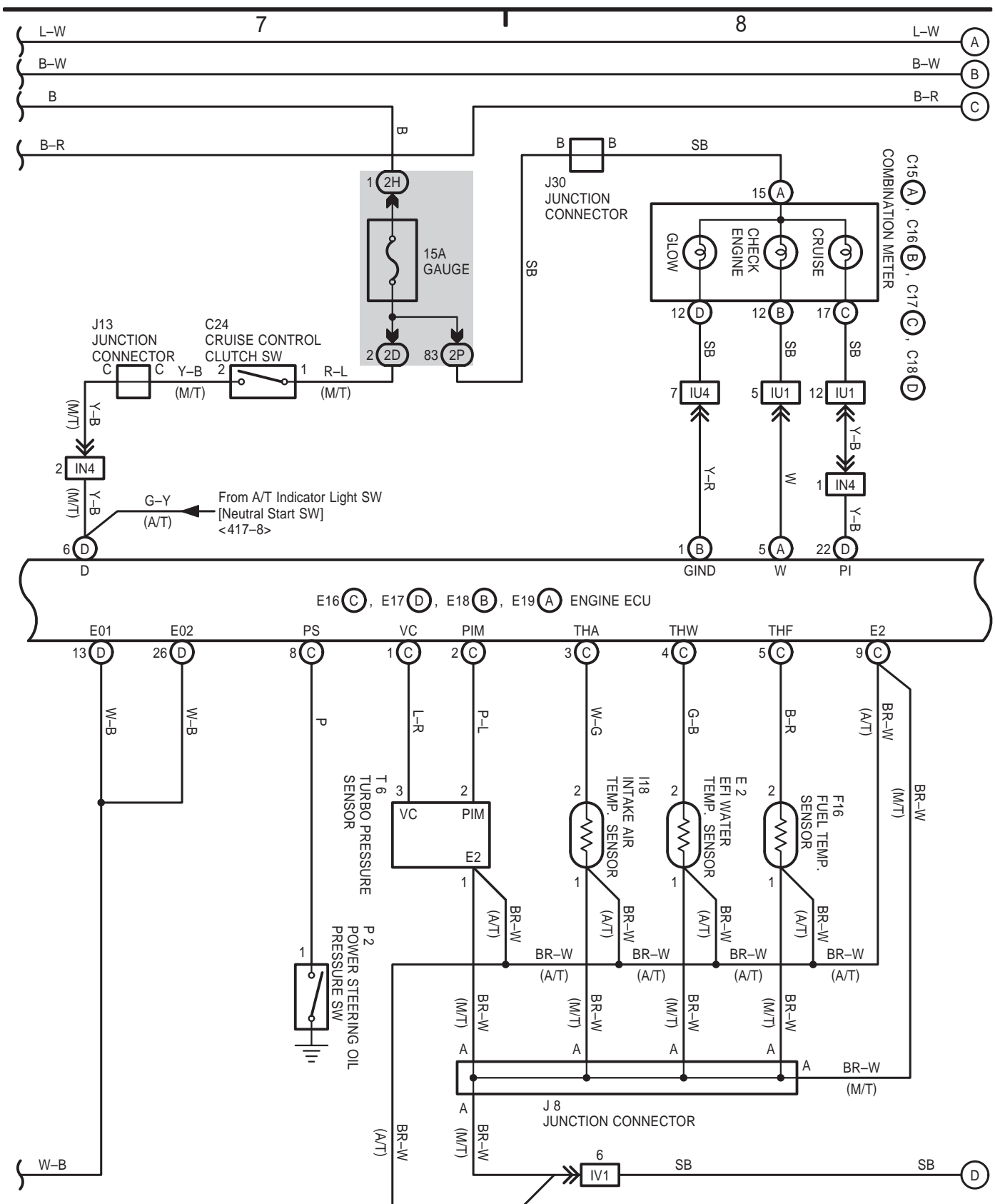
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# F ELECTRICAL WIRING DIAGRAM (System Circuits)

## Engine Control (1HD-FTE)



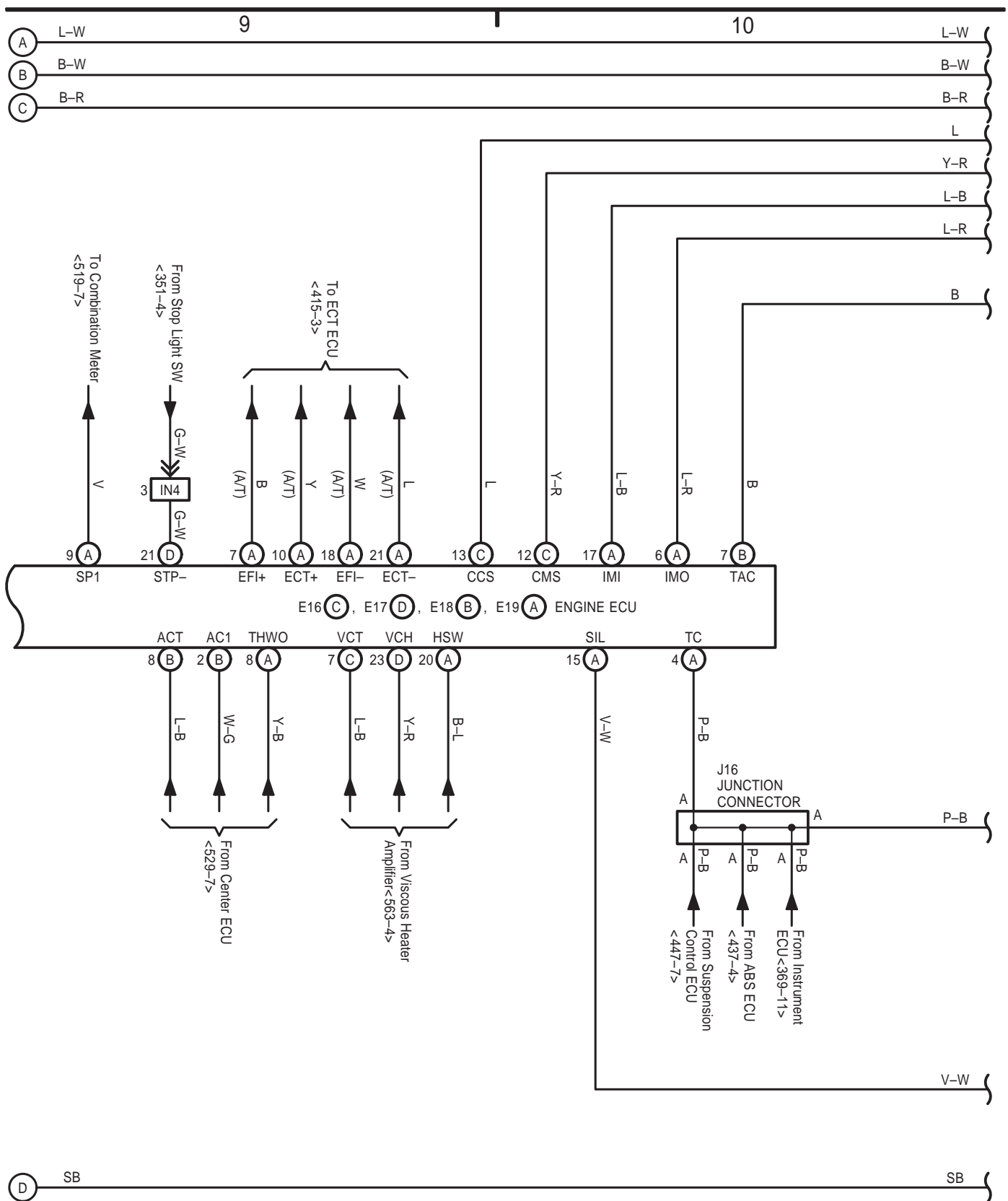
## Engine Control (1HD-FTE)



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## Engine Control (1HD-FTE)

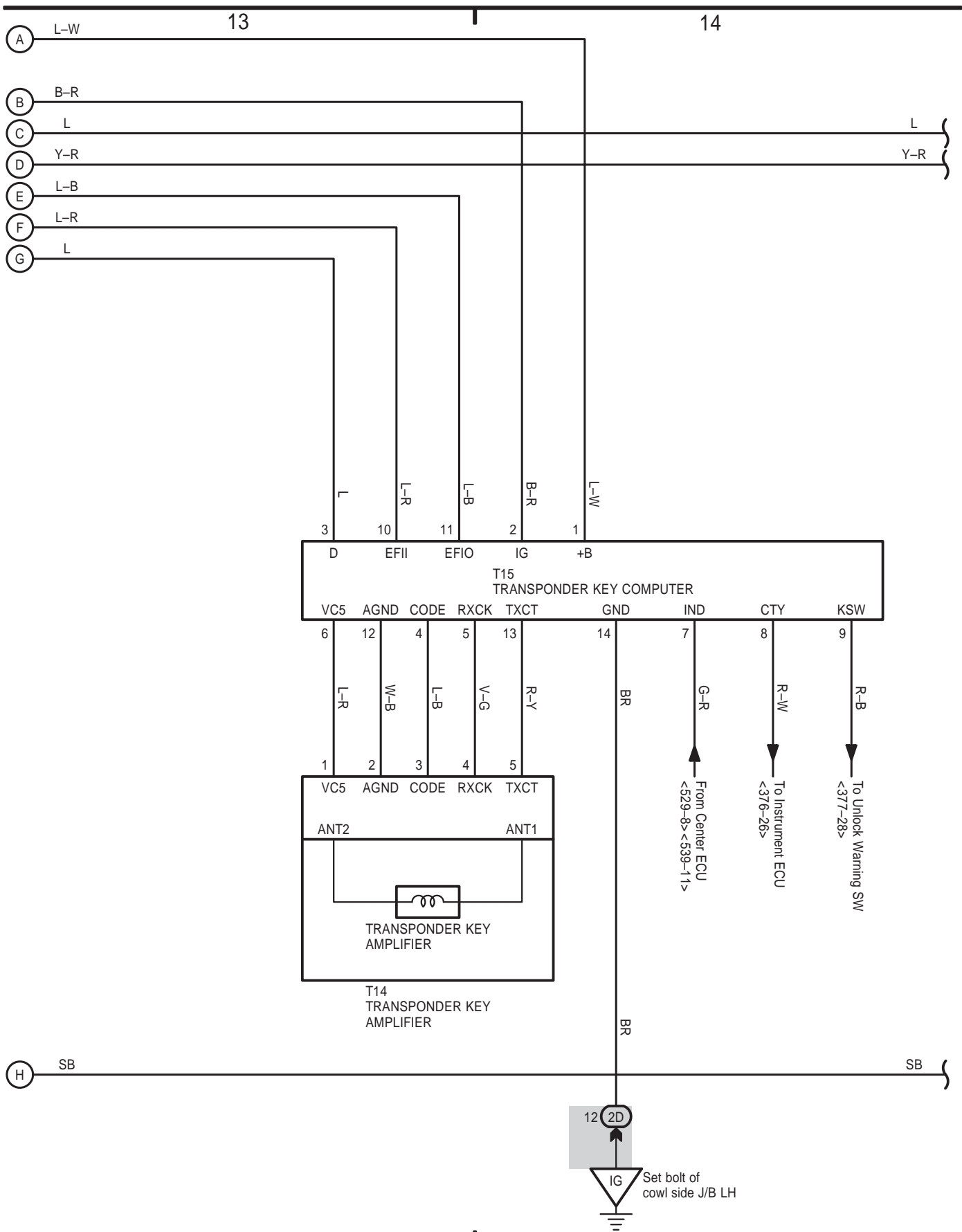


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F ELECTRICAL WIRING DIAGRAM (System Circuits)

Engine Immobiliser System (1HD-FTE)



## Cruise Control (1HD-FTE)

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