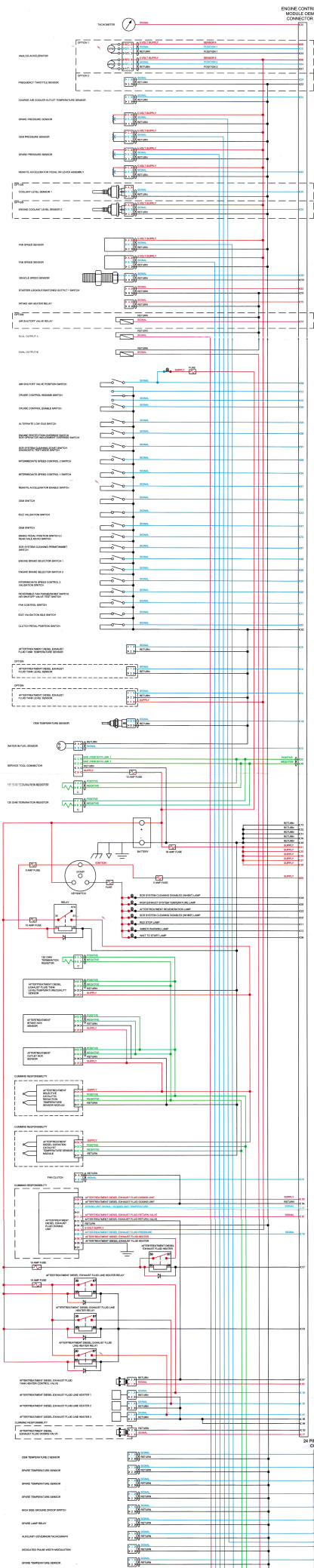




NOTE: WIRING OF THIS ELECTRICAL SYSTEM MUST BE DONE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND REGULATIONS IN YOUR COUNTRY. CONTACT YOUR LOCAL REGULATORY AGENCIES FOR THE APPLICABLE STANDARDS AND REGULATIONS.

WIRING DIAGRAM



General Information

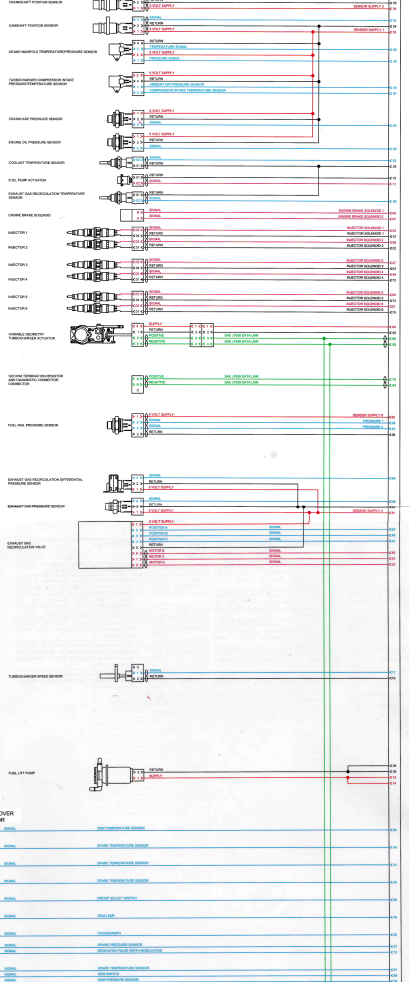
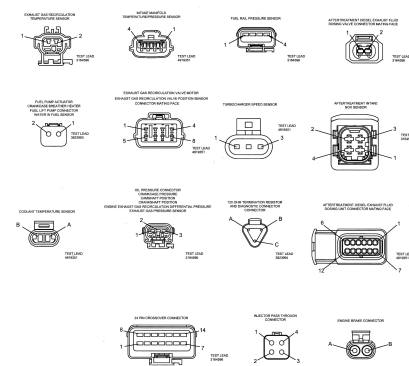
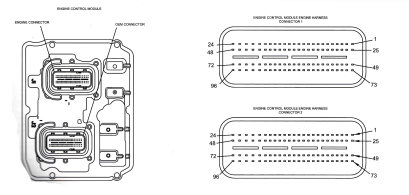
WARNING
This diagram is provided as a diagnostic tool for trained, experienced technicians only. Improper troubleshooting or repair can result in severe personal injury or death or property damage. See important instructions in the Service Manual.

Electrical Specifications

- SAE J1939 Backbone Resistance**
 - Positive wire to return wire - 50 to 75 ohms
 - Termination Resistance - 110 to 130 ohms
- All Continuity Checks**
 - OK (no short circuit) if < 10 ohms
- All Shorts to Ground**
 - OK (no short circuit) if > 100k ohms
- Short Circuit to External Voltage Source**
 - OK, if < 1.5 VDC
- Sensor Specifications**
 - Engine Coolant Temperature Sensor**
 - Torque = 20 N·m [177 in·lb]
 - Engine Oil Pressure Switch**
 - Torque = 23 N·m [204 in·lb]
 - Engine Oil Pressure Sensor**
 - Torque = 8 N·m [71 in·lb]
 - Intake Manifold Air Pressure/Temperature Sensor**
 - Torque = 8 N·m [71 in·lb]

Specifications

- Solenoids**
 - Fuel Pump Actuator - 2.0 to 4.5 ohms
 - Injectors - Less than 2 ohms
- Engine Control Module (ECM) Connector**
 - Retaining Cap Torque = 3 N·m [27 in·lb]
- Fuel Rail Pressure Sensor**
 - Torque = 70 N·m [52 ft·lb]
- Engine Speed/Position Sensor (Cams)**
 - Torque = 8 N·m [71 in·lb]
- Engine Speed/Position Sensor (Crankshaft)**
 - Torque = 8 N·m [71 in·lb]



WIRING DIAGRAM

GENERAL INFORMATION