

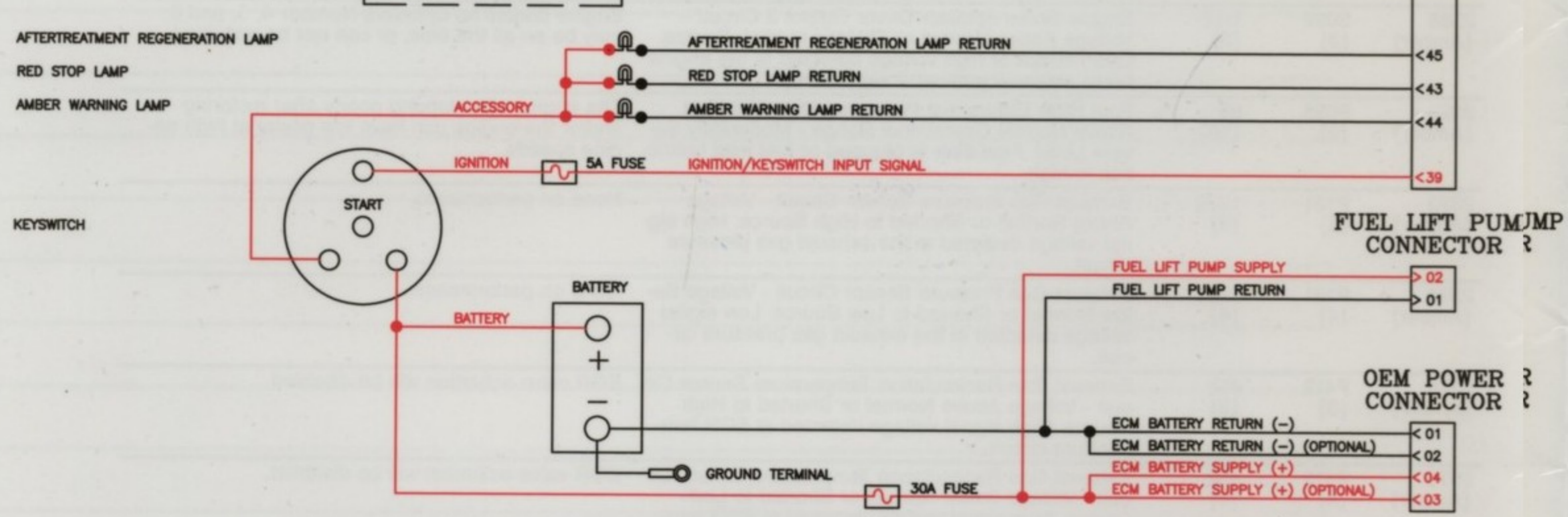
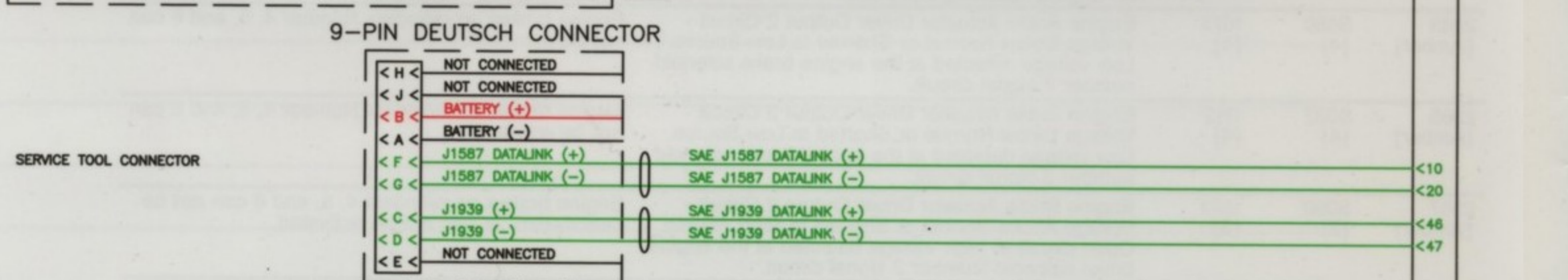
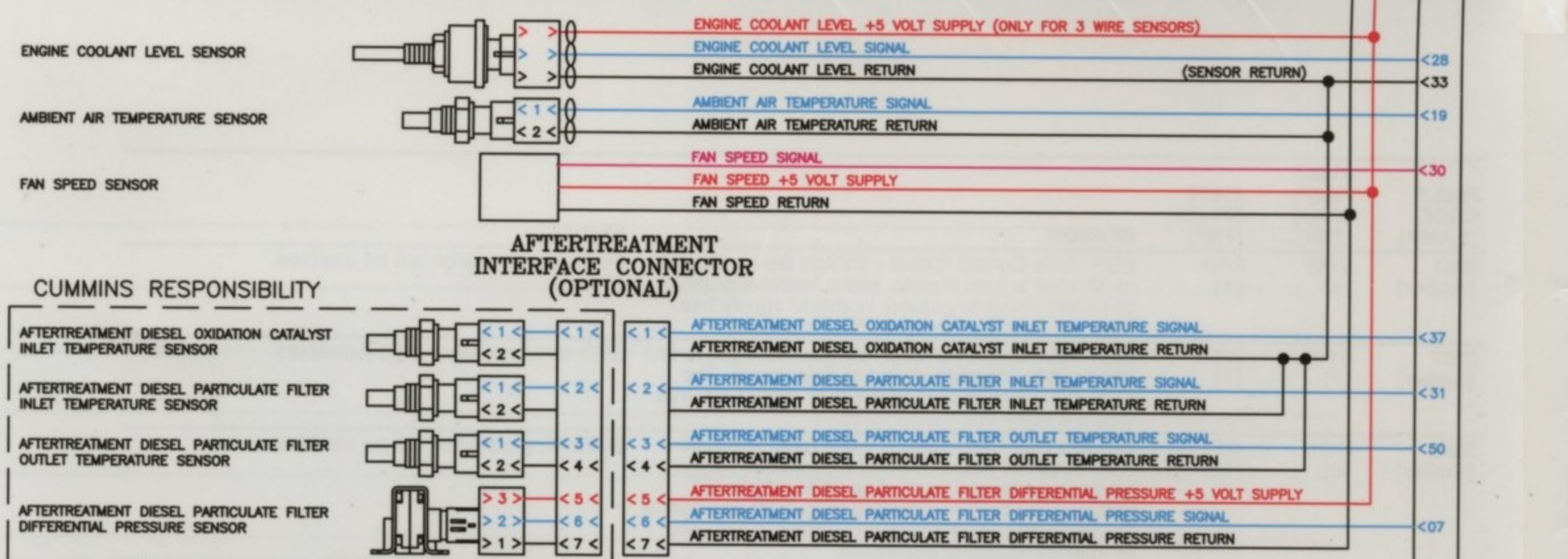
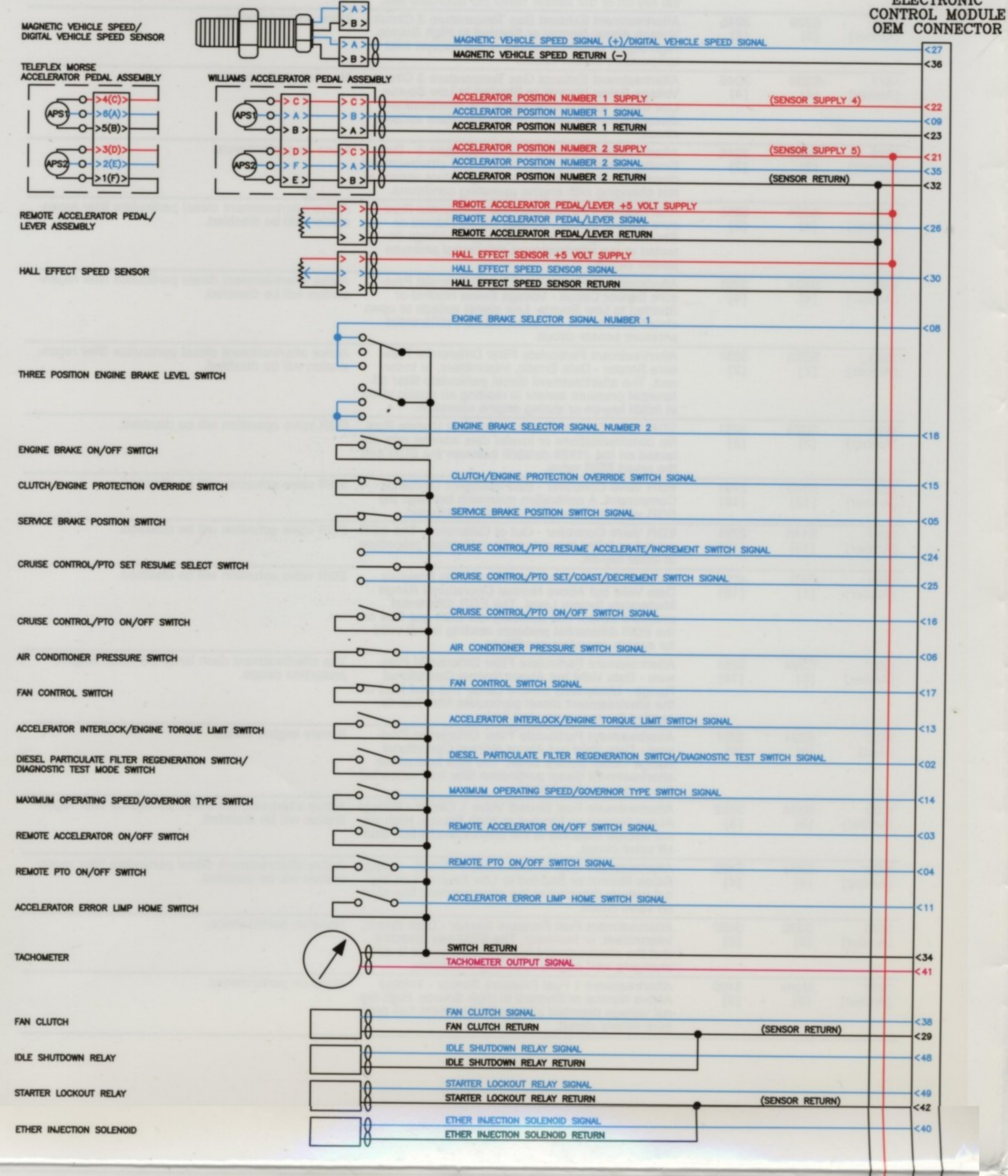
NOTE 1: SOME OF THE CIRCUITS SHOWN HERE WILL NOT BE ACTIVE IN ALL APPLICATIONS. CONSULT THE EQUIPMENT MANUFACTURER'S LITERATURE TO DETERMINE WHICH CIRCUITS ARE USED.

NOTE 2: MAY BE EITHER INCREMENT OR DECREMENT DEPENDING ON THE VALUE OF THE ECM ADJUSTABLE PARAMETER "CRUISE CONTROL SETUP".

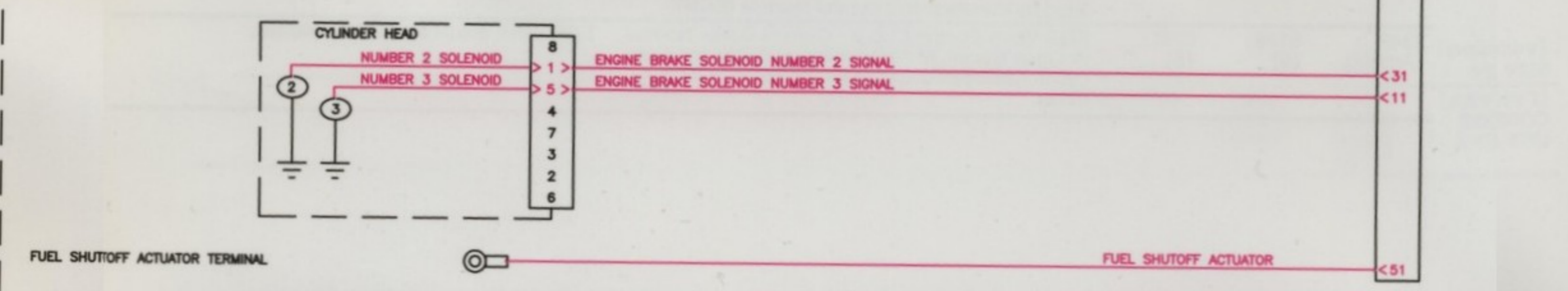
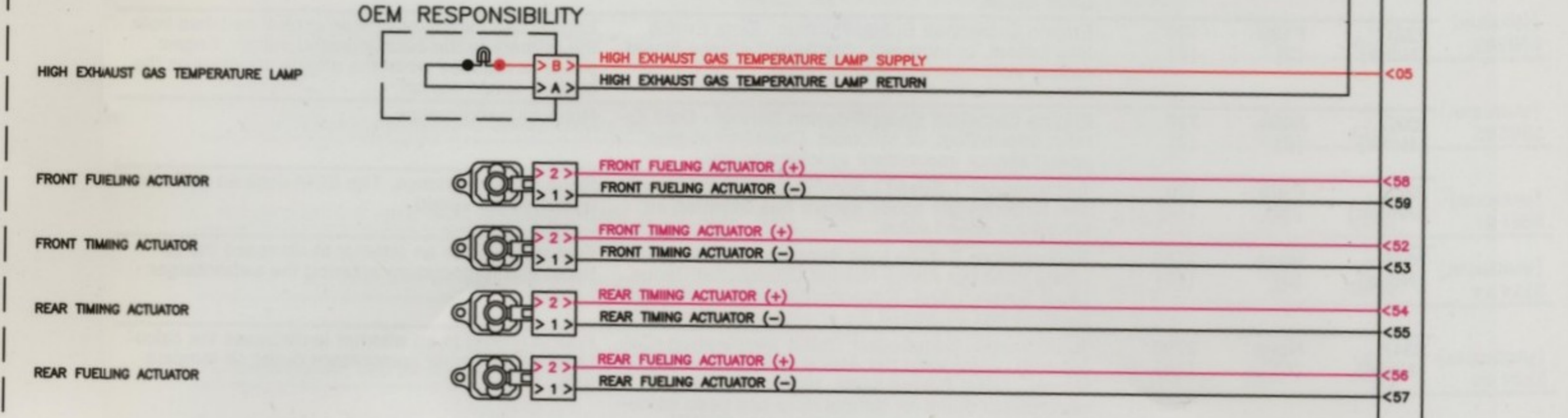
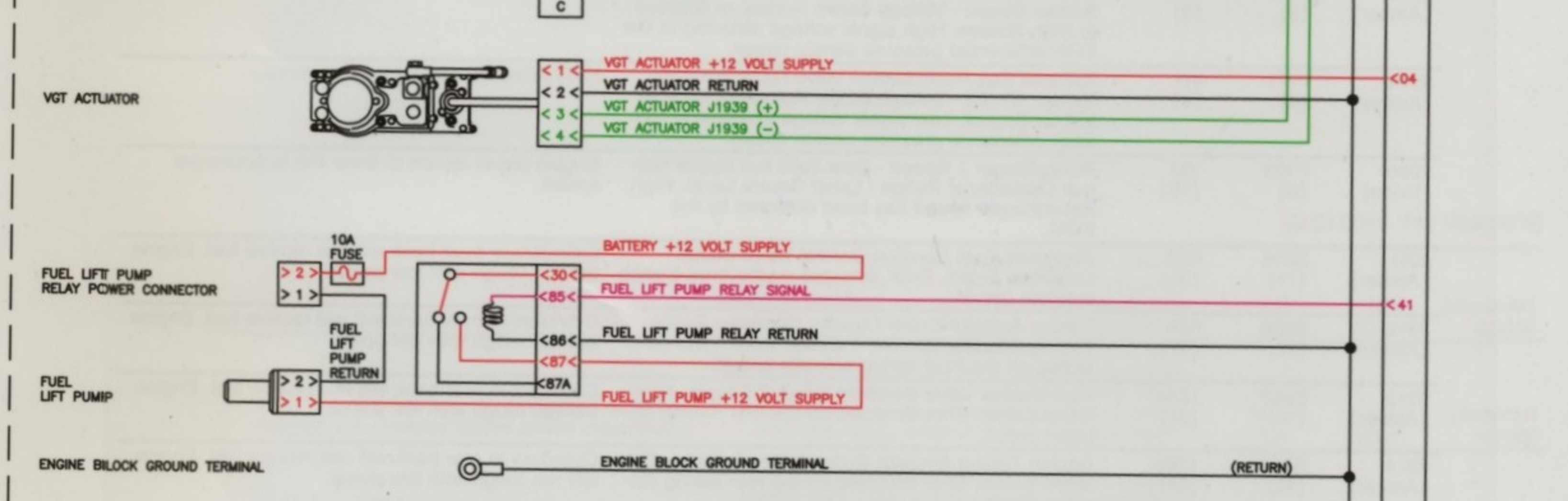
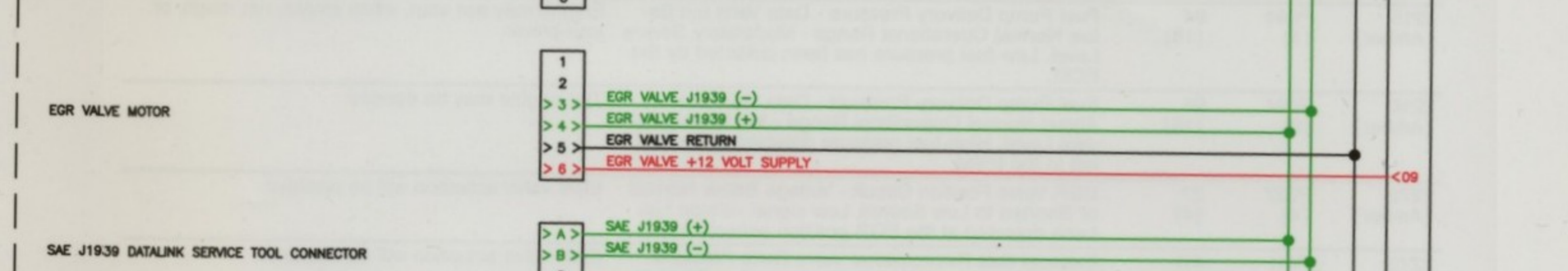
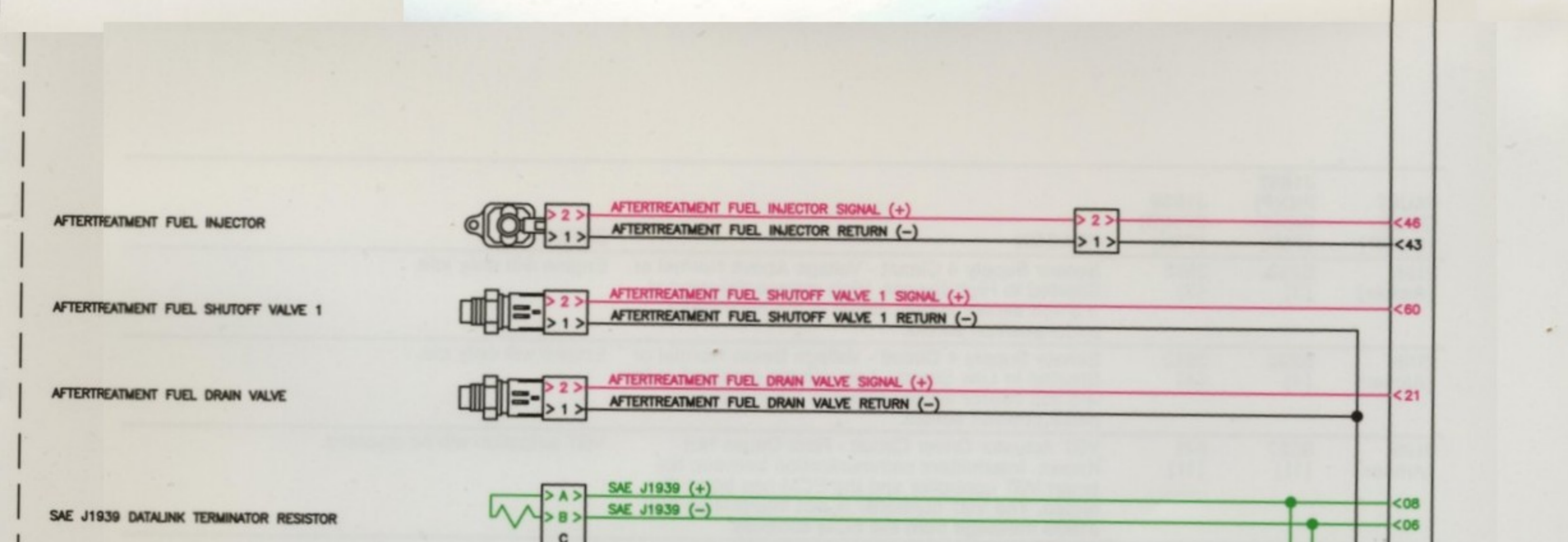
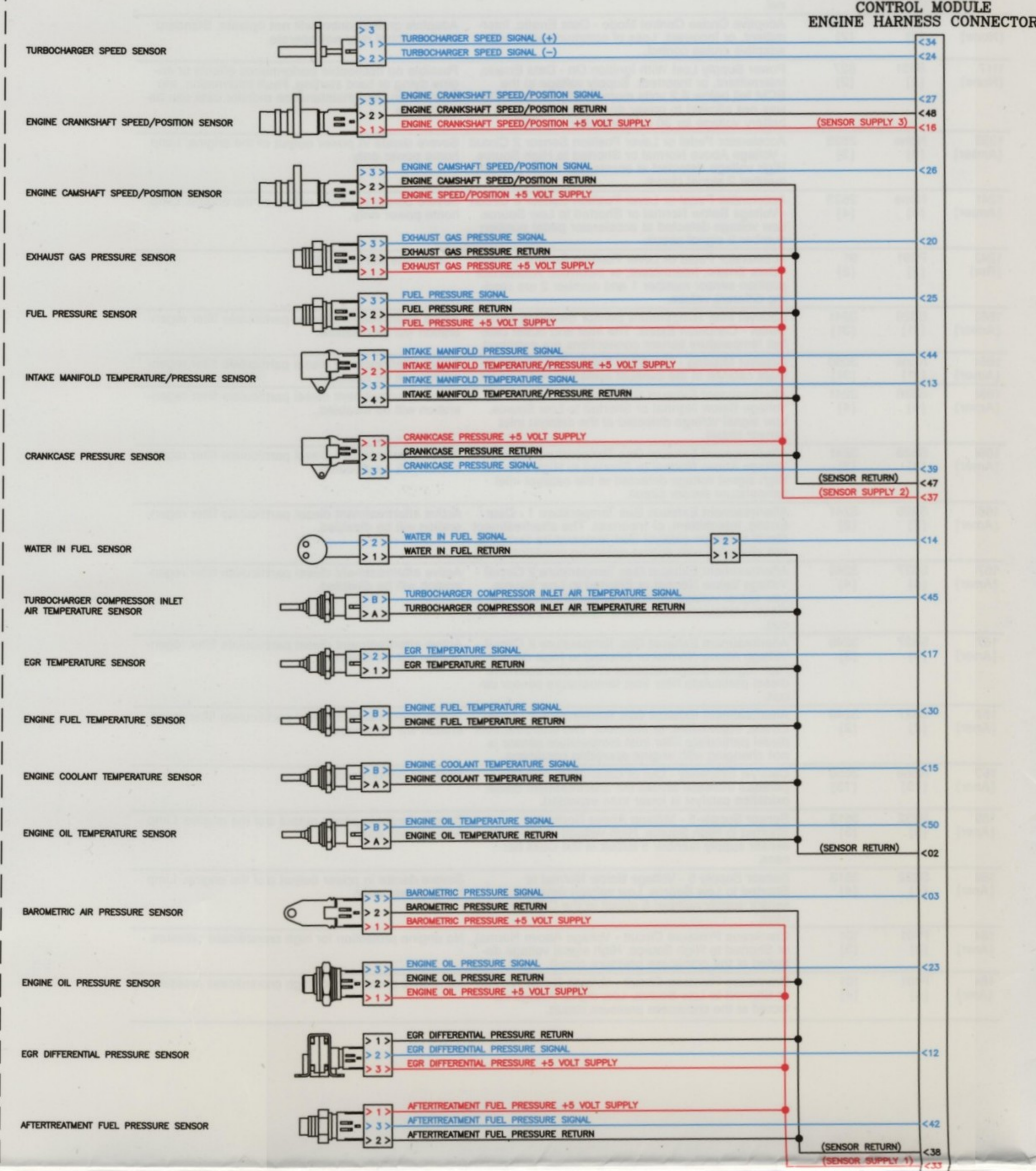
OEM RESPONSIBILITY

CUMMINS RESPONSIBILITY

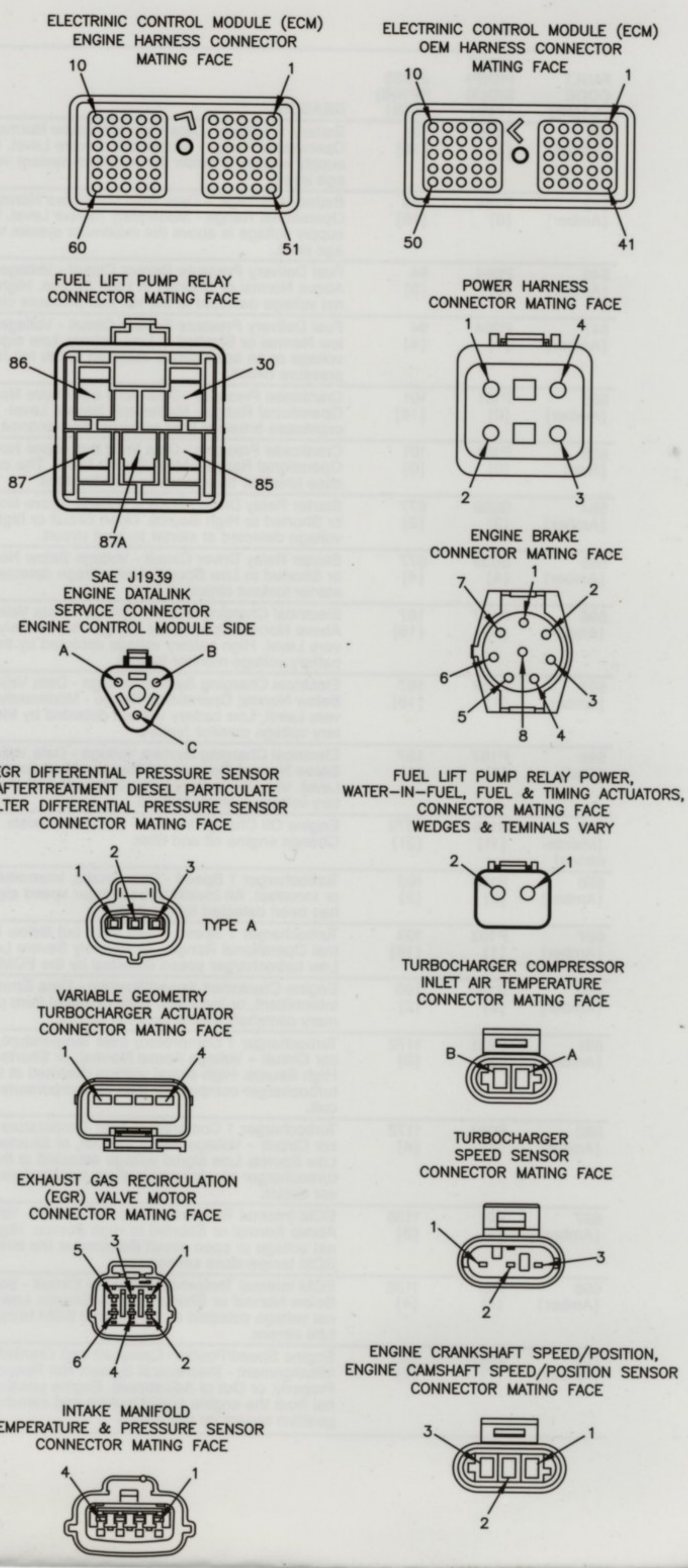
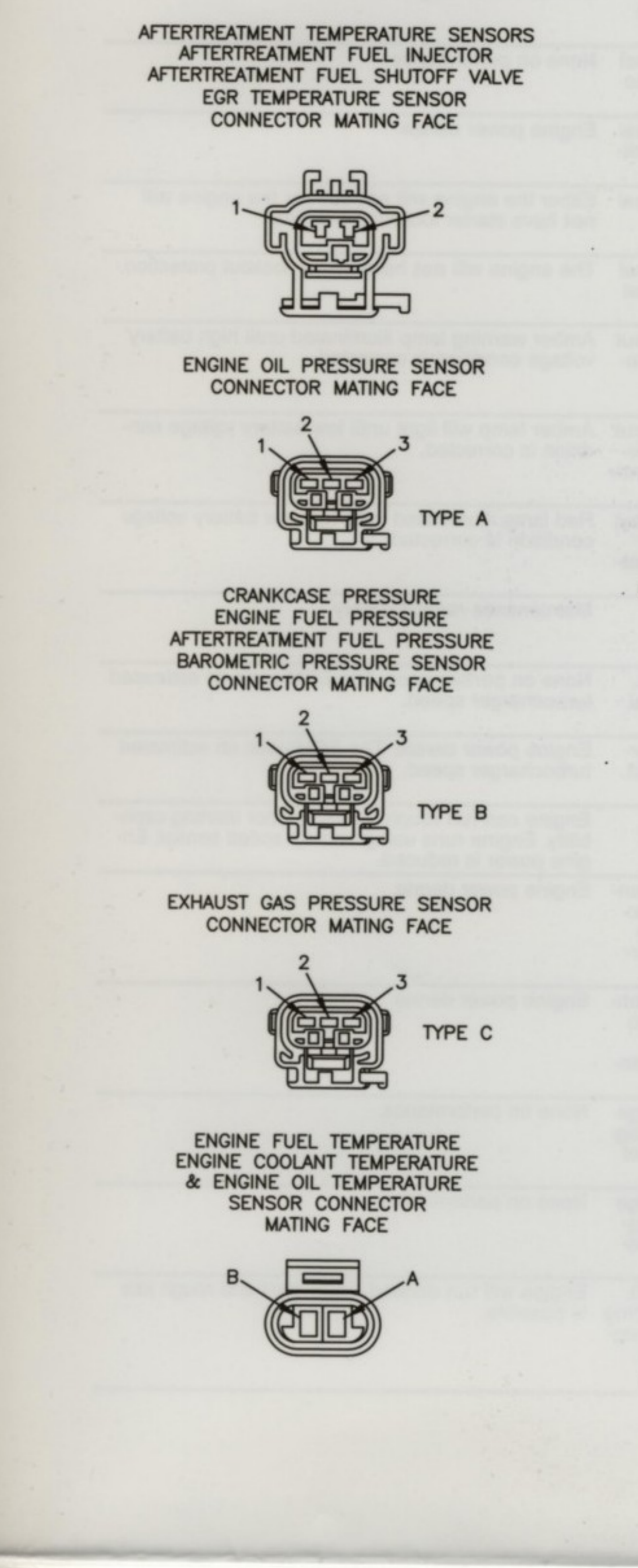
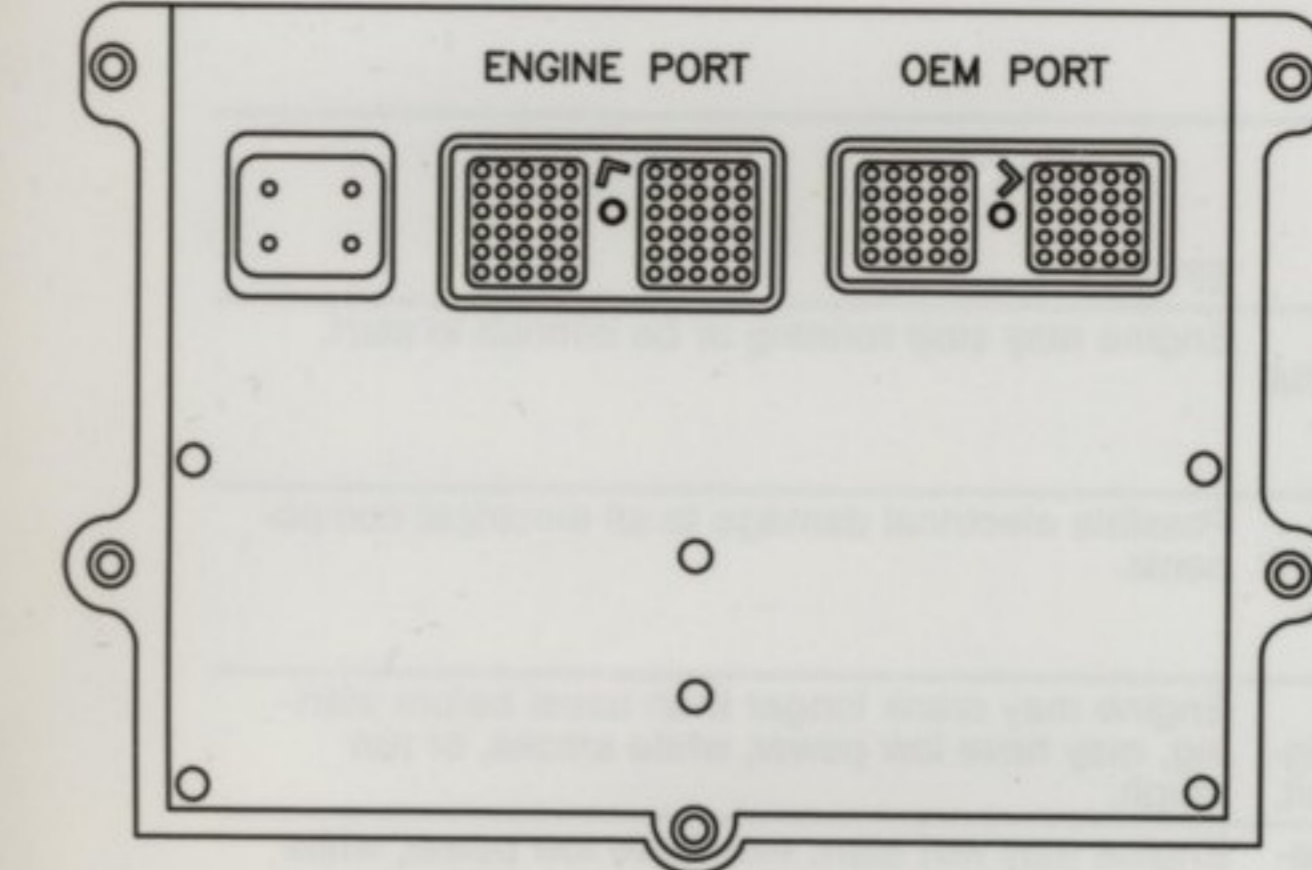
ELECTRONIC CONTROL MODULE OEM CONNECTOR



ELECTRONIC CONTROL MODULE ENGINE HARNESS CONNECTOR



ELECTRIC CONTROL MODULE (ECM)



Specifications

▲ WARNING ▲

General Information

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 70 Ω
 - Termination Resistance - 110 to 130 Ω

ALL CONTINUITY CHECKS

- OK (no open circuit) if < 10 Ω

ALL SHORTS TO GROUND

- OK (no short circuit) if > 100k Ω

SHORT CIRCUIT TO EXTERNAL VOLTAGE SOURCE

- OK if < 1.5 VDC

Sensor Specifications

- Turbocharger Compressor Inlet Air Temperature Sensor**
- Torque = 23 N•m [17 ft-lb]
- Intake Manifold Air Temperature Sensor**
- Torque = 23 N•m [17 ft-lb]
- Intake Manifold Pressure/Temperature Sensor**
- Torque = 6 N•m [53 in-lb]
- Exhaust Gas Pressure Sensor**
- Torque = 23 N•m [17 ft-lb]
- EGR Temperature Sensor**
- Torque = 57 N•m [42 ft-lb]
- Engine Coolant and Engine Oil Temperature Sensor**
- Torque = 23 N•m [17 ft-lb]

SENSOR SUPPLY VOLTAGE

- @ ECM - 4.75 to 5.25 VDC

SOLENOIDS

- Fuel Shutoff Valve
- Resistance = 5.0 to 8.5 Ω

ECM CONNECTOR

- Retaining Cap Screw Torque = 3 N•m [25 in-lb]

Engine Oil Pressure Sensor

- Torque = 23 N•m [17 ft-lb]

Turbocharger Speed Sensor

- Torque = 8.5 N•m [75 in-lb]
- Resistance = 600 to 1600 ohms

Engine Position Sensor

- Torque = 20 N•m [15 ft-lb]

Crankcase Pressure Sensor

- Torque = 0.19 N•m [20 in-lb]