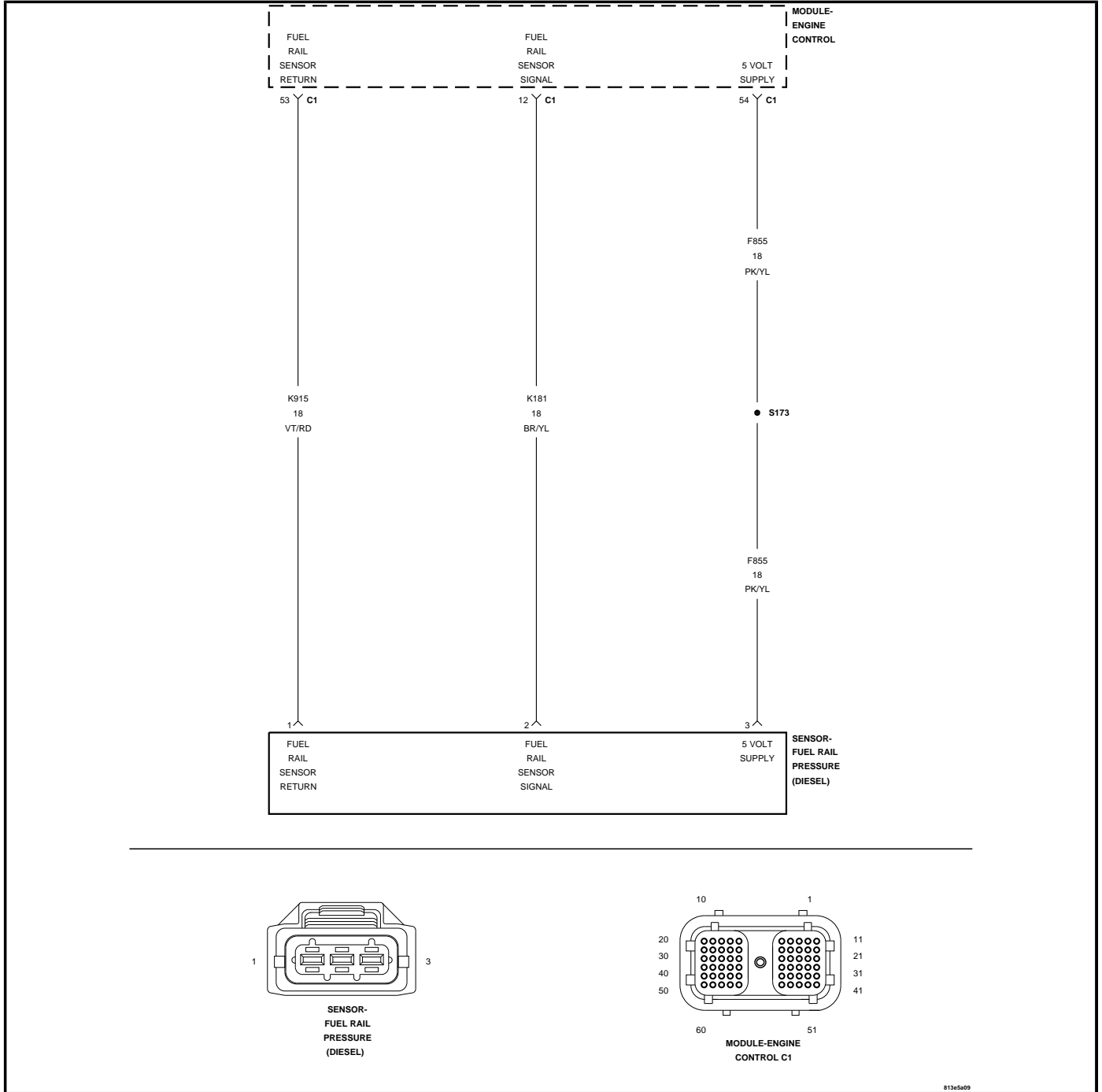


P0193-FUEL PRESSURE SENSOR VOLTAGE TOO HIGH



For a complete wiring diagram **Refer to the Wiring Information.**

- **When Monitored:**

With the ignition on and battery voltage greater than 10.4 volts.

- **Set Condition:**

The circuit voltage to the ECM is above a calibrated threshold for a certain period of time.

Possible Causes

OTHER DTC'S

FUEL PRESSURE SENSOR

(K181) SIGNAL CIRCUIT SHORTED TO VOLTAGE

(F855) 5-VOLT SUPPLY CIRCUIT SHORTED TO VOLTAGE

(K181) SIGNAL CIRCUIT SHORTED TO (F855) 5-VOLT SUPPLY CIRCUIT

(K915) RETURN CIRCUIT OPEN

ECM

INTERMITTENT CONDITION

Always perform the Pre-Diagnostic Troubleshooting procedure before proceeding. (Refer to 28 - DTC-Based Diagnostics/MODULE, Engine Control (ECM) - Standard Procedure)

1. OTHER DTC'S

1. Ignition on, engine not running.
2. With the scan tool, read DTCs.

Do you have multiple DTC's?

- Yes**
- Refer to multiple fault troubleshooting tree.
 - Perform POWERTRAIN VERIFICATION TEST VER - 1 (DIESEL). (Refer to 28 - DTC-Based Diagnostics/MODULE, Engine Control (ECM) - Standard Procedure)
- No**
- Go To [2](#)

2. (F855) 5-VOLT SUPPLY AND (K915) RETURN CIRCUIT

1. Turn the ignition off.
2. Disconnect the Fuel Pressure sensor harness connector.

NOTE: Check connectors - Clean/repair as necessary.

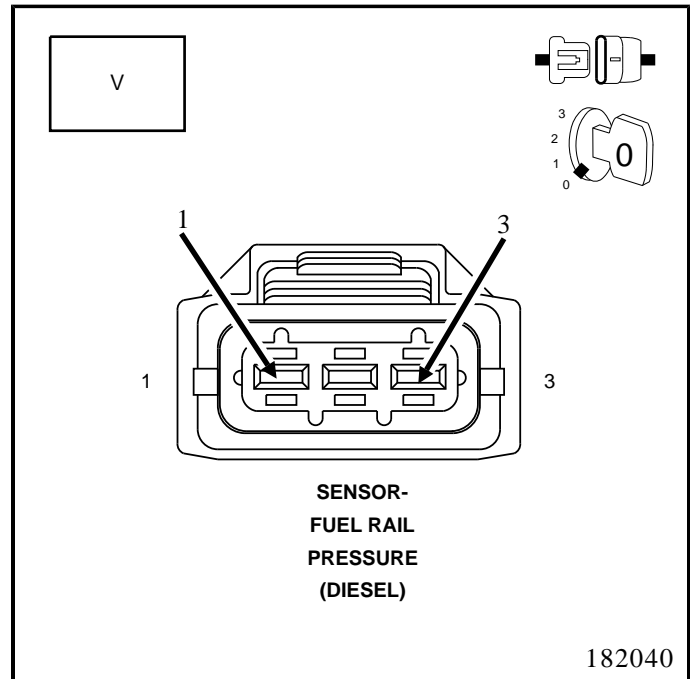
3. Ignition on, engine not running.
4. Measure the voltage between the (F855) 5-volt supply and (K915) return circuits of the Fuel pressure sensor harness connector.

Is the voltage between 4.5 and 5.5 volts?

Yes • Go To [3](#)

No • Go To [4](#)

•



3. FUEL PRESSURE SENSOR

1. While monitoring scan tool, connect a jumper wire between the (K181) signal circuit and the (K915) return circuit of the Fuel Pressure sensor connector.

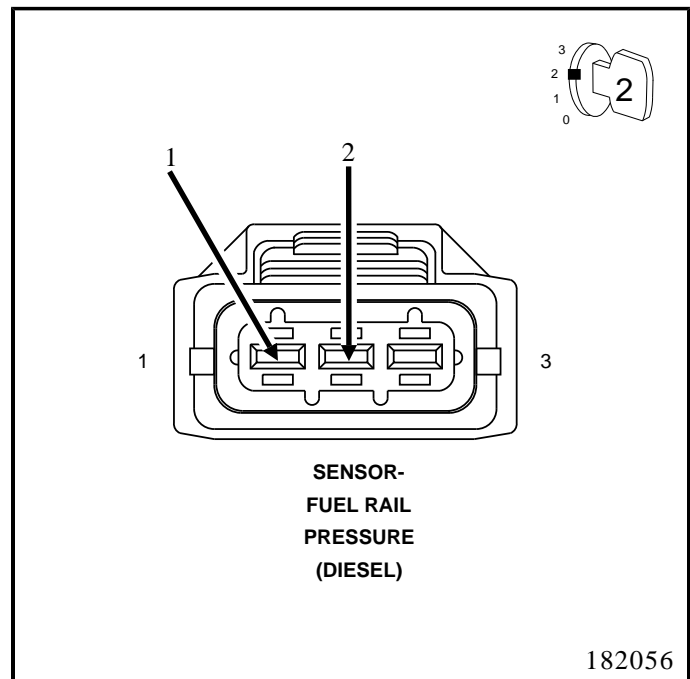
Does the DTC P0192 set?

Yes • Replace the Fuel Pressure Sensor.

- Perform POWERTRAIN VERIFICATION TEST VER - 1 (DIESEL). (Refer to 28 - DTC-Based Diagnostics/MODULE, Engine Control (ECM) - Standard Procedure)

No • Go To [4](#)

•

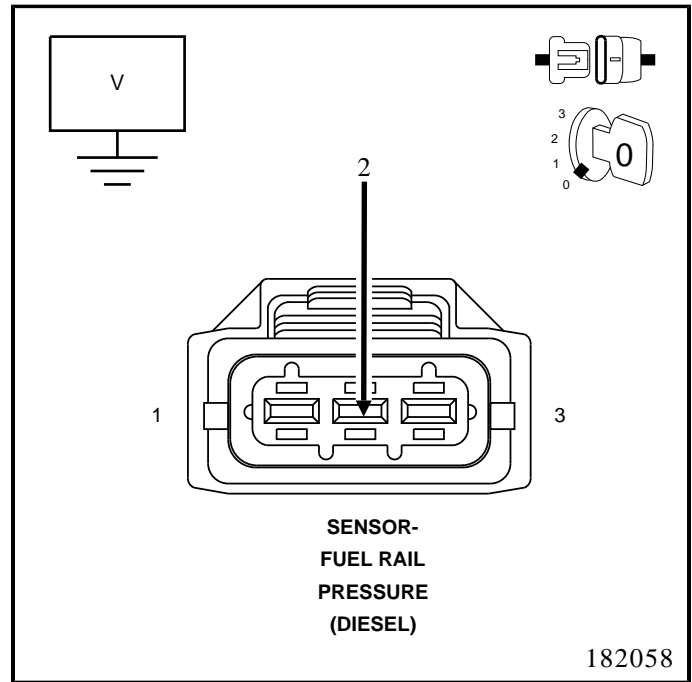


4. (K181) SIGNAL CIRCUIT SHORTED TO VOLTAGE

1. Turn the ignition off.
2. Disconnect the Fuel Pressure sensor harness connector.
3. Disconnect the ECM harness connectors.
4. Check connectors - Clean/repair as necessary.
5. Turn the ignition on.
6. Measure the voltage between the (K181) signal circuit of the sensor harness connector and battery negative.

Is the voltage less than 1 volt?

- Yes**
- Go To 5
- No**
- Repair the (K181) signal circuit shorted to voltage.
 - Perform POWERTRAIN VERIFICATION TEST VER - 1 (DIESEL). (Refer to 28 - DTC-Based Diagnostics/MODULE, Engine Control (ECM) - Standard Procedure)

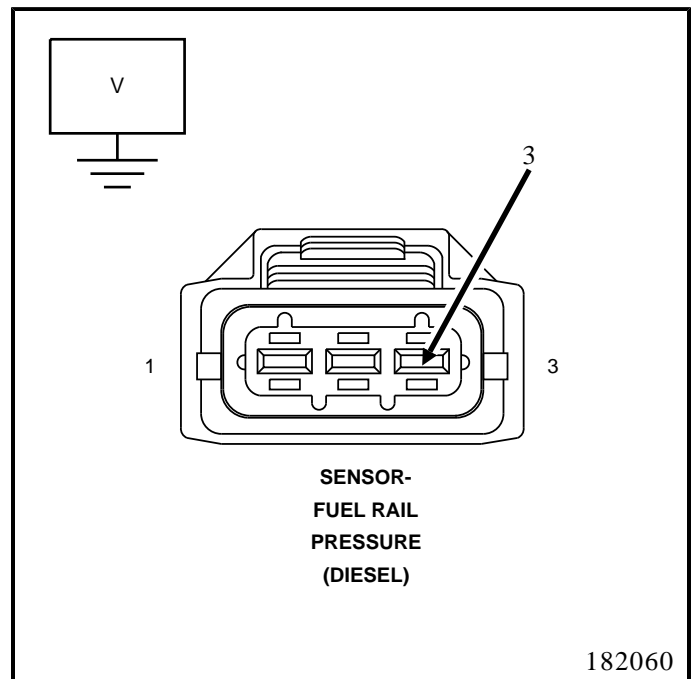


5. (F855) 5-VOLT SUPPLY CIRCUIT SHORTED TO VOLTAGE

1. Measure the voltage between the (F855) 5-volt supply circuit of the sensor harness connector and battery negative.

Is the voltage less than 1 volt?

- Yes**
- Go To 6
- No**
- Repair the (F855) 5-volt supply circuit shorted to voltage.
 - Perform POWERTRAIN VERIFICATION TEST VER - 1 (DIESEL). (Refer to 28 - DTC-Based Diagnostics/MODULE, Engine Control (ECM) - Standard Procedure)

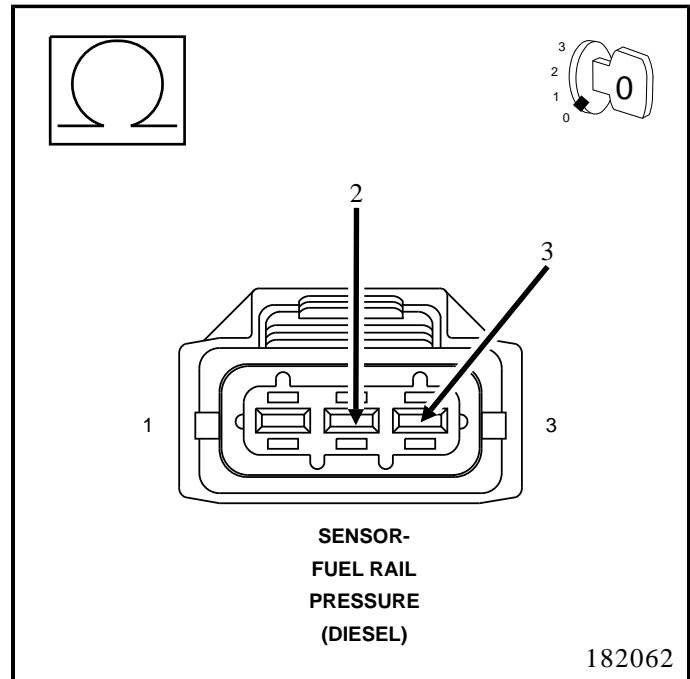


6. (K181) SIGNAL CIRCUIT SHORTED TO (F855) 5-VOLT SUPPLY CIRCUIT

1. Turn the ignition off.
2. Measure the resistance between the (K181) signal circuit and (F855) 5-volt supply circuit in the sensor connector.

Is the resistance greater than 10 K Ohms?

- Yes**
- Go To 7
- No**
- Repair the shorted circuits.
 - Perform POWERTRAIN VERIFICATION TEST VER - 1 (DIESEL). (Refer to 28 - DTC-Based Diagnostics/MODULE, Engine Control (ECM) - Standard Procedure)

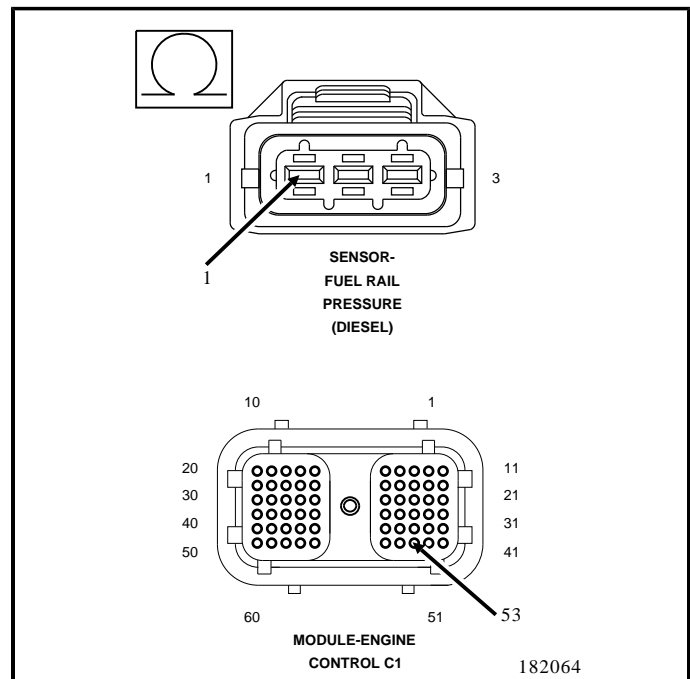


7. (K915) RETURN CIRCUIT OPEN

1. Measure the resistance between the (K915) return circuit in the sensor harness connector with the (K915) return circuit in the ECM harness connector.

Is the resistance less than 10 Ohms?

- Yes**
- Go To 8
- No**
- Repair the open (K915) return circuit.
 - Perform POWERTRAIN VERIFICATION TEST VER - 1 (DIESEL). (Refer to 28 - DTC-Based Diagnostics/MODULE, Engine Control (ECM) - Standard Procedure)



8. ECM

1. Reconnect the disconnected ECM harness connectors.
2. While monitoring scan tool, connect a jumper wire between the (K181) signal circuit of the sensor connector and the (K915) return circuit of the sensor connector.

Does the DTC P0192 set?

- Yes**
- Refer to the INTERMITTENT CONDITION Symptom (Diagnostic Procedure). (Refer to 28 - DTC-Based Diagnostics/MODULE, Engine Control (ECM) - Standard Procedure)
- No**
- Replace the ECM.
 - Perform POWERTRAIN VERIFICATION TEST VER - 1 (DIESEL). (Refer to 28 - DTC-Based Diagnostics/MODULE, Engine Control (ECM) - Standard Procedure)

