

## **PINPOINT TEST G206886p2 : DTC P0190, P0192, P0193; FUEL RAIL PRESSURE (FRP) SENSOR**

### **G206886t7 : CHECK THE FRP SENSOR SIGNAL CIRCUIT FOR HIGH RESISTANCE**

1. Turn the ignition switch to the **OFF** position. 2. Disconnect the battery negative terminal. 3. Disconnect the FRP sensor electrical connector, IL12. 4. Measure the resistance between IL12 pin 03 (U) and PI01 pin 73 (U).

- **Is the resistance greater than 5 ohms?**

-> **Yes**

REPAIR the high resistance circuit. For additional information, refer to the wiring diagrams. CLEAR the DTC. TEST the system for normal operation.

-> **No**

GO to Pinpoint Test G206886t8.

### **G206886t8 : CHECK THE FRP SENSOR SIGNAL CIRCUIT FOR SHORT TO HIGH VOLTAGE**

1. Reconnect the battery negative terminal. 2. Turn the ignition switch to the **ON** position. 3. Measure the voltage between IL12 pin 03 (U) and GROUND.

- **Is the voltage greater than 3 volts?**

-> **Yes**

REPAIR the short circuit. For additional information, refer to the wiring diagrams. CLEAR the DTC.

TEST the system for normal operation.

-> **No**

GO to Pinpoint Test G206886t9.

### **G206886t9 : CHECK THE FRP SENSOR SIGNAL CIRCUIT FOR SHORT TO GROUND**

1. Turn the ignition switch to the **OFF** position. 2. Measure the resistance between the FRP sensor electrical connector IL12 pin 03 (U) and GROUND.

- **Is the resistance less than 10,000 ohms?**

-> **Yes**

REPAIR the short circuit. For additional information, refer to the wiring diagrams. CLEAR the DTC. TEST the system for normal operation.

-> **No**

Recheck the DTCs. Check the sensor supply and ground circuits. <<303-14>>