

# DETROIT DIESEL



## DDEC® VI Troubleshooting

**NUMBER:** 08 DDEC VI-61    **S.M. REF.:** 12.4    **ENGINE:** EPA07 Series 60    **DATE:** November 2008

**SUBJECT:** HIGH FUEL PRESSURE

**PUBLICATION:** DDC-SVC-MAN-0009

The fuel pressures in the “Fuel Pressure (DDEC VI with Regulator)” table in Section 12.4 “High Fuel Pressure” have been updated.

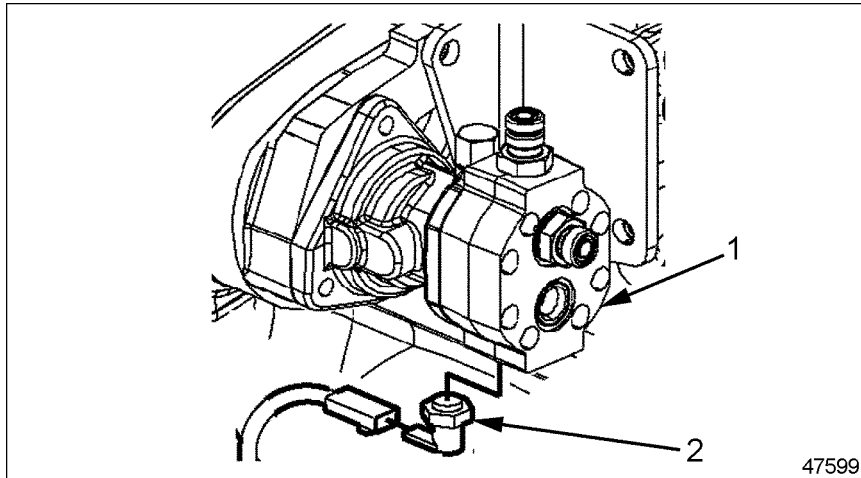
From	To
413 psi (60 kPa)	58-68 psi (400-468 kPa)
413 psi (60 kPa)	70-80 psi (482-551 kPa)
413 psi (60 kPa)	84-86 psi (579-593 kPa)

**Table 1 Fuel Pressure (DDEC VI with Regulator)**

## 12.4 HIGH FUEL PRESSURE

To determine if high fuel pressure is causing lack of power, perform the following steps:

1. Disconnect and remove the Supply Fuel Temperature Sensor (SFT Sensor) from the fuel pump. See Figure 1 for SFT Sensor.



1. Fuel Pump

2. Supply Fuel Temperature Sensor

**Figure 1 Supply Fuel Temperature Sensor**

2. Attach a calibrated gauge capable of reading 0-100 psi (0-689 kPa) to the fuel pump.

**⚠ CAUTION:**

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.

**⚠ WARNING:  
ENGINE EXHAUST**

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

3. Start and run the engine to the speeds listed in Table 2 and record the fuel pressure:

Engine Speed, rpm	Normal Fuel Pressure, PSI (kPa)
600	58-68 (400-468)
1200	70-80 (482-551)
1800	84-86 (579-593)

**Table 2 Fuel Pressure (DDEC VI with Regulator)**

4. Shut down the engine.
5. Remove the calibrated gauge from the fuel pump.
6. Install and connect the SFT Sensor; refer to the *Series 60 Service Manual* (DDC-SVC-MAN-0005), fuel system chapter.
7. Analyze the measured fuel pressure readings.
  - [a] If the fuel pressure is within specification listed in Table 2, check for high fuel temperature return; refer to section 12.5 "High Fuel Temperature Return."
  - [b] If the fuel pressure is greater than specifications listed in Table 2, refer to section 12.4.1 "Fuel Pressure Regulator Replacement."

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## **ADDITIONAL SERVICE INFORMATION**

Additional service information is available in the *Series 60 DDEC VI Troubleshooting Guide* (DDC-SVC-MAN-0009).

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