

## ATS Technician's Guide

**NUMBER:** 08 ATS-9   **S.M. REF.:** 20.6   **ENGINE:** ATS   **DATE:** August 2008

**SUBJECT:** UPDATE TO SPN 3610/FMI 20

**PUBLICATION:** DDC-SVC-MAN-0036

Step 9 of SPN 3610/FMI 20 has changed.

### **SPN 3610/FMI 20**

This diagnostic condition is typically DPF Outlet Pressure Sensor drifted high in range (Low Box).

### **CHECK FOR DPF OUTLET PRESSURE SENSOR DRIFTED HIGH IN RANGE**

Check as follows:

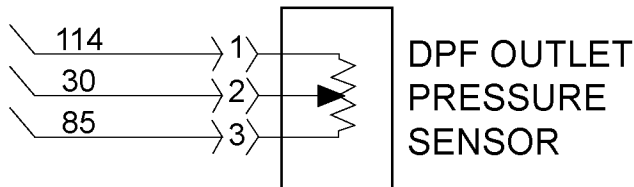
1. Remove the DPF Outlet Pressure hose assembly from the pressure sensor and ATD.
2. Connect DDDL 7.X.
3. Turn ignition ON (key ON, engine OFF)

### **NOTE:**

Do not start engine.

4. Access the Voltage Service Routine.
5. Select "Start Acquiring."
6. Monitor the DPF Outlet Pressure Sensor voltage (P\_DPF\_OUT).
7. Is the voltage between 0.44 – 0.56 volt?
  - [a] If yes, go to step 10.
  - [b] If no, go to step 8.

8. Disconnect DPF Outlet Pressure Sensor connector. See Figure 1.



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**Figure 1 Diesel Particulate Filter Outlet Pressure Sensor**

9. Inspect connector for corrosion and damaged or bent pins. If the pressure sensor connector is OK, check connections upstream to the MCM (ATD harness 10-pin connector pin 4, VIH 31-pin connector pin 30, and MCM 120-pin connector pin 30). While harness is being inspected, also look for defeat devices (switches and resistors which are not factory installed).
  - [a] If harness corrosion or damaged or bent pins are found, repair as necessary. Verify repairs.
  - [b] If defeat device is found, contact the Detroit Diesel Customer Support Center at 313-592-5800 for instructions.
  - [c] If harness inspection is OK, replace DPF Outlet Pressure Sensor and go to step 10.
10. Inspect the pressure sensor hose and fittings for kinks, plugging.
  - [a] If plugged, clean the pressure sensor hose and fittings. If kinked, replace the pressure sensor hose assembly. Verify repairs.
  - [b] If OK, go to step 11.
11. Reconnect DPF Outlet Pressure Sensor connector.
12. Re-install the DPF Outlet Pressure hose assembly on the pressure sensor and ATD.
13. Clear codes.

 **WARNING:**  
**ENGINE EXHAUST**

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

14. Start engine.

 **WARNING:**  
**HOT EXHAUST**

**During parked regeneration the exhaust gases will be extremely HOT and could cause a fire if directed at combustible materials. The vehicle must be parked outside.**

15. Using DDDL 7.X, perform a parked regeneration. After regeneration is complete, testing is done. Verify repairs.

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## **ADDITIONAL SERVICE INFORMATION**

Additional service information is available in the Detroit Diesel *ATS Technician's Guide* (DDC-SVC-MAN-0036). The next revision to this manual will include the revised information.

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