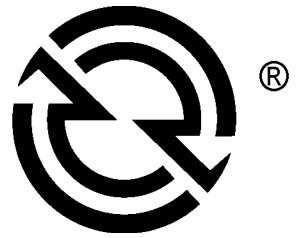


# DETROIT DIESEL



## ATS Technician's Guide

**NUMBER:** 08 ATS-14   **S.M. REF.:** 23.1   **ENGINE:** ATS   **DATE:** October 2008

**SUBJECT:** ADDITION OF SPN 4077/FMI 0

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

SPN 4077/FMI 0 was added.

### **SPN 4077/FMI 0**

This diagnostic condition is typically high Doser Fuel Line Pressure.

### **CHECK FOR HIGH DOSER FUEL LINE PRESSURE**

Check as follows:

1. Shut off engine, apply the parking brake, chock the wheels, disconnect vehicle battery power, and perform any other applicable safety measures.
2. Visually inspect Doser Block Assembly fuel lines for external leaks.

### **NOTE:**

One drop of fuel can cause a failure.

- [a] If external leaks are present, repair as necessary. Verify repairs.
  - [b] If no external leaks are present, go to step 3.
3. Connect DDDL 7.X.

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

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

4. Start engine.
5. Using DDDL 7.X, perform Doser Fuel Line Purge Service Routine.

### **NOTE:**

Only run this Service Routine once.

6. Once the fuel cutoff goes to 100%, begin monitoring the Fuel Compensation Pressure.

**NOTE:**

The pressures listed in this procedure for Fuel Compensation Pressure are absolute pressures, which is gauge pressure plus approximately 100 kPa (14.5 psi).

- [a] If Fuel Compensation Pressure is greater than or equal to 993 kPa (144 psi), replace the Doser Block Assembly. Go to step 8.
- [b] If Fuel Compensation Pressure is less than 69 kPa (10 psi), replace the Doser Block Assembly. Go to step 8.
- [c] If Fuel Compensation Pressure is between 69 – 448 kPa (10 – 65 psi), perform a low fuel pressure test; refer to section listed in Table 1. Make repairs as needed and go to step 7.

Engine	Publication Title	Publication Number	Reference
Series 60	<i>EPA07 Series 60 DDEC VI Troubleshooting Guide</i>	DDC-SVC-MAN-0009	Section "No or Low Fuel Pressure Test"
DD15	<i>EPA07 DD15 DDEC VI Troubleshooting Guide</i>	DDC-SVC-MAN-0029	Section "Monitoring Low Pressure Fuel System Pressures"
MBE 4000	<i>EPA07 MBE 4000 DDEC VI Troubleshooting Guide</i>	DDC-SVC-MAN-0010	Section "No or Low Fuel Pressure Test"
MBE 900	<i>EPA07 MBE 900 DDEC VI Troubleshooting Guide</i>	DDC-SVC-MAN-0015	Section "No or Low Fuel Pressure Test"

**Table 1 Low Fuel Pressure Test References**

- [d] If Fuel Compensation Pressure is between 665 – 993 kPa (95 – 144 psi), perform a high fuel pressure test; refer to section listed in Table 2. Make repairs as needed and go to step 7.

Engine	Publication Title	Publication Number	Reference
Series 60	<i>EPA07 Series 60 DDEC VI Troubleshooting Guide</i>	DDC-SVC-MAN-0009	Section "High Fuel Pressure Test"
DD15	<i>EPA07 DD15 DDEC VI Troubleshooting Guide</i>	DDC-SVC-MAN-0029	Section "Diagnosis High Amplifier/Needle Return Flow (Version 5 Fuel System)"
MBE 4000	<i>EPA07 MBE 4000 DDEC VI Troubleshooting Guide</i>	DDC-SVC-MAN-0010	Section "High Fuel Pressure Test"
MBE 900	<i>EPA07 MBE 900 DDEC VI Troubleshooting Guide</i>	DDC-SVC-MAN-0015	Section "High Fuel Pressure Test"

**Table 2 High Fuel Pressure Test References**

- [e] If Fuel Compensation Pressure is between 448 – 665 kPa (65 – 95 psi), replace the Fuel Doser Valve. Go to step 7.

 **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.**

7. Using DDDL 7.X, initiate a parked regeneration.

- [a] If fault code 4077/0 becomes active, replace the Doser Block Assembly. Go to step 7.

**NOTE:**

The regeneration will abort if fault code 4077/0 becomes active.

- [b] If the regeneration completes itself, verify repairs.

8. Using DDDL 7.X, initiate a parked regeneration.

- [a] If fault code 4077/0 becomes active, repeat step 2 through step 6. If the fault code 4077/0 still becomes active, contact the Detroit Diesel Customer Support Center at 313-592-5800.

- [b] If the regeneration completes itself, verify repairs.

**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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