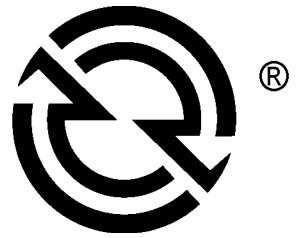


DETROIT DIESEL



ATS Technician's Guide

NUMBER: 08 ATS-13 **S.M. REF.:** 23.1 **ENGINE:** ATS **DATE:** September 2008

SUBJECT: ADDITION OF SPN 4077/FMI 1

PUBLICATION: DDC-SVC-MAN-0036

SPN 4077/FMI 1 was added.

SPN 4077/FMI 1

This diagnostic condition is typically abnormal Doser Fuel Line Pressure.

CHECK FOR ABNORMAL DOSER FUEL LINE PRESSURE

Check as follows:

1. 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 2.

2. 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.

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

NOTE:

Only run this service routine once.

5. 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 6.
- [b] If Fuel Compensation Pressure is less than 69 kPa (10 psi), replace the Doser Block Assembly. Go to step 6.
- [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 6.

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 6.

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 6.

 **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.

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

[a] If fault code 4077/1 becomes active, replace the Doser Block Assembly.

NOTE:

The regeneration will abort if fault code 4077/1 becomes active.

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

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

[a] If fault code 4077/1 becomes active, repeat step 1 through step 5. If the fault code 4077/1 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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