DAIMLER

Daimler Trucks North America
Nasser Zamani
Senior Manager
Compliance and Regulatory Affairs

March 13, 2009

Dan Smith
Associate Administrator for Vehicle Safety
National Highway Traffic Safety Administration
1200 New Jersey Avenue S.E.
Washington D.C. 20590

Re: Defect Information Report – Supplemental Report No. 1
08V-668, 08C-3 (FL-542), MBE900 EPA04 High Pressure Fuel Lines

Mr. Smith

In accordance with Part 573 of Title 49 of the Code of Federal Regulations, Daimler Trucks North America LLC herewith submits supplemental defect information and copies of documents to be distributed to dealers and purchasers.

(c)(3) **Total number of vehicles potentially affected: 24039**

(c) (8)(ii) **Communications sent to dealers:** posted March 4, 2009
Communications sent to owners: mailed March 9, 2009

(c) (10) **Copies of Communications sent to owners and dealers are attached. Please note that the work instructions were made available through paper copy and video. The paper copy is attached and the video is available at your request.**

Please contact me if you have any questions.

Sincerely yours,

Nasser Zamani

Nasser Zamani

Cc: Michael Mason, CAL-OSHA
Enclosure
Certified Mail#70032260000134037132

Daimler Trucks North America LLC
4747 N. Channel Avenue
Portland OR 97217-7699
503-745-6910 Phone
503-745-5544 Fax
Nasser.Zamani@Daimler.com

DETROIT DIESEL

Detroit Diesel Corporation
13400 Outer Drive, West
Detroit, Michigan 48239-4001
Telephone: 313-592-5000

March 4, 2009

To: U.S., Mexico and Canadian Distributors and FLLC Dealers

Attn.: General Service Manager

Subject: **Safety Recall 08C3**
MBE 900 EPA04 High Pressure Fuel Lines

Attached is your copy of Safety Recall 08C3. Also attached is a list of engine serial numbers that, according to our records, are affected by Safety Recall 08C3.

Certain MBE 900 EPA 04 engines will require replacement of the high pressure fuel lines and transfer tubes with the latest design from the EPA 07 engine. Replacing the high pressure fuel lines and transfer tubes will prevent fuel line damage and fuel leaks which can result in a fire internal to the engine compartment.

If any of these engines have been sold and delivered, it will be required that owners be notified of this Recall so corrective action can be taken. Owners can be notified by sending the attached owner letter.

Instructions for indicating that Campaign 08C3 has been completed are noted in the Safety Recall Bulletin.

If you determine that any of the engines listed, are now located outside your area, or in the event you have any questions, contact Detroit Diesel.

The **Detroit Diesel Warranty System** can be utilized to determine if a particular engine serial number is affected by this campaign.

The attached Safety Recall Bulletin should be used when communicating this Recall to your service organization.

Sincerely,

David P. Dole

David P. Dole, Manager
Service Operations

Detroit Diesel Corporation
13400 Outer Drive, West
Detroit, Michigan 48239-4001
Telephone: 313-592-5000

March 2009
Safetey Recall 08C3
NHTSA #08V-668

Subject: MBE 900 EPA04 High Pressure Fuel Lines

This notice is sent to you in accordance with requirement of the National Traffic and Motor Vehicle Safety Act. This notice is also sent in accordance with the Canadian Motor Vehicles Safety Act.

Detroit Diesel has decided that a defect which relates to motor vehicle safety exists in certain MBE 900 EPA 04 engines equipped in Daimler Trucks North America vehicles.

High pressure fuel lines and transfer tubes will need to be inspected and replaced in order to prevent fuel line damage and fuel leaks which can result in a fire internal to the engine compartment.

Records available to us indicate that your vehicle is equipped with one of these affected engines. Detroit Deisel will repair your engine at no charge to you.

We ask that you take your unit to the closest Authorized Repair Facility to have the work performed. We estimate that the labor time required to perform this Safety Recall on your engine is approximately 2.0 hours.

If you have any questions about this Safety Recall you may call our Customer Support Center at (313) 592-5800. If you believe that Detroit Diesel has failed or is unable to remedy the defect without charge within a reasonable time, you may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, S.E., Washington, D.C. 20590 or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153); or to http://www.safercar.gov. If your vehicle is involved in the Canadian portion, you may wish to notify Transport Canada, ASFAD, Place de Ville Tower C, 330 Sparks Street, Ottawa, ON K1A 0N5, or phone (800) 333-0510.

If you had this repair done before you received this letter, you may be eligible to receive reimbursement for the cost of obtaining a pre-notification remedy of the problem associated with this recall. **If you are the lessor of this vehicle, Federal Law requires that you forward this notice to the lessee within ten days**. For more information, contact Warranty Administration at Detroit Diesel Corporation, 13400 Outer Drive West, Detroit, MI 48239 or call (313) 592-3708.

We regret any inconvenience this action may cause. However, we have taken this action in the interest of your continued satisfaction with our products as well as our interest in motor vehicle safety.

DETROIT DIESEL
SAFETY RECALL 08C3
SERVICE ADMINISTRATION CAMPAIGN COORDINATOR (BX-5)

SAFETY RECALL BULLETIN

Subject: **Safety Recall 08C3**
MBE 900 EPA04 High Pressure Fuel Lines

Defect Involved

Detroit Diesel Corporation (DDC) has determined that some certified EPA04 MBE 900 engines will require replacement of high pressure fuel lines and transfer tubes with the latest design from the EPA07 engine. Replacing the high pressure fuel lines and transfer tubes will prevent fuel line damage and fuel leaks which can result in a fire internal to the engine compartment.

Engines Involved

A list of engines located in your area of responsibility that require this correction is attached.

The table below gives descriptive information to help identify the affected units:

Model Series	Other Descriptive Information
MBE 900	9047BT6E 9047BT8E 9047MT6E 9047MT8E 9067BT2E 9067BT6E 9067MT2E 9067MT5E 9067MT6E 9067MT8E

Owner Notification

Detroit Diesel will notify owners of equipment incorporating engines identified with this safety recall. A copy of the owner letter that will be used by Detroit Diesel is enclosed with this recall notice.

Distributor / Dealer Modification Responsibility

Detroit Diesel Repair Facilities are to service all engines subject to this recall. The recall is to be performed at no charge to owners on all affected engines under the provisions of this recall notice.

Please use the appropriate steps, noted below, for indicating that **Safety Recall 08C3** has been completed.

Freightliner, Sterling, and Western Star Trucks

- Check the base label (**Form WAR259**) to see if **Safety Recall 08C3** has been completed. The base label is usually located on the passenger-side door about 12 inches (30 cm) below the door latch. If **Safety Recall 08C3** has been completed, no further work is needed. If base label is not located on the passenger-side door, please affix label (**Form WAR259)** 12 inches or 30 cm from the door latch.

- Upon completion of **Safety Recall 08C3**, clean a spot on the base label (**Form WAR259**), write the Safety Recall Number (**08C3**) on a blank, red completion sticker (**Form WAR260**), and attach it to the base label.

Ordering Information

1. If you do not have the appropriate Form *or* Labels (DDC_WAR 259, DDC_WAR 260. DDC_WAR 261), they can be ordered from **Access EPI** by logging into the Detroit Diesel website and clicking on **Access EPI** as well as going directly to **ddc@epiinc.com**

2. You can also fax in your order to **(269) 968-4260;** *or*

3. Contact **EPI** directly at **(269) 964-4600** Ext. **5806.**

Parts Information

The required parts for this upgrade are shown below:

Part Number	Qty.	Description	Application
A9040700533	1	Service Kit – **Four Cylinder Engine**	9047BT6E 9047BT8E 9047MT6E 9047MT8E
A9060702633	1	Service Kit – **Six Cylinder Engine**	9067BT2E 9067BT6E 9067MT2E 9067MT5E 9067MT6E 9067MT8E

Corrective Procedure

- ***Reference*** Installation Instructions found in information sheet included in the Service kits and **Service Information Bulletin 1 01-09**.
- ***Reference*** the MBE Fuel Line Replacement **Video** for the MBE4000 on the home page of **www.DDCSN.com**.

NOTE:	**The Torque Procedure for the MBE900 will be the same as the MBE4000 shown in the video.**

Warranty Information

Claim Type:	04
Modification:	**08C3**
Fault Type:	ZZ
Primary Failed Part:	**A9060701433**
Labor:	
Four Cylinder Models	**1.7 Hours**
Six Cylinder Models	**1.9 Hours**
Labor Code:	**R08C3**
Parts Return:	**Scrap Parts**

Should you have any additional questions, please contact Detroit Diesel.

DETROIT DIESEL
13400 Outer Drive West
Detroit, Michigan 48239-4001

DETROIT DIESEL

Service Information Bulletin

NUMBER: 1 1–09 **S.M. REF.:** Listed in Table **ENGINE:** EPA04 MBE 900 **DATE:** March 2009

SUBJECT: HIGH PRESSURE FUEL LINES AND TRANSFER TUBES

ADDITIONS, REVISIONS, OR UPDATES

Publication Number	Platform	Section Title	Change	Page Number(s)
DDC-SVC-MAN-0024	EPA04 MBE 900	2.2	High Pressure Fuel Lines And Transfer Tubes removal and installation procedure has been updated.	

NOTE: Page numbers are based on the most recent version of the individual publication and may be adjusted throughout the annual print cycle.

REMOVAL OF HIGH PRESSURE FUEL LINES AND TRANSFER TUBES

Remove as follows:

WARNING:
PERSONAL INJURY

To prevent the escape of high pressure fuel that can penetrate skin, ensure the engine has been shut down for a minimum of 10 minutes before servicing any component within the high pressure circuit. Residual high fuel pressure may be present within the circuit.

WARNING:
FIRE

To avoid injury from fire, keep all potential ignition sources away from diesel fuel, including open flames, sparks, and electrical resistance heating elements. Do not smoke when refueling.

WARNING:
FIRE

To avoid injury from fire caused by heated diesel-fuel vapors:

- **Keep those people who are not directly involved in servicing away from the engine.**
- **Stop the engine immediately if a fuel leak is detected.**
- **Do not smoke or allow open flames when working on an operating engine.**
- **Wear adequate protective clothing (face shield, insulated gloves and apron, etc.).**
- **To prevent a buildup of potentially volatile vapors, keep the engine area well ventilated during operation.**

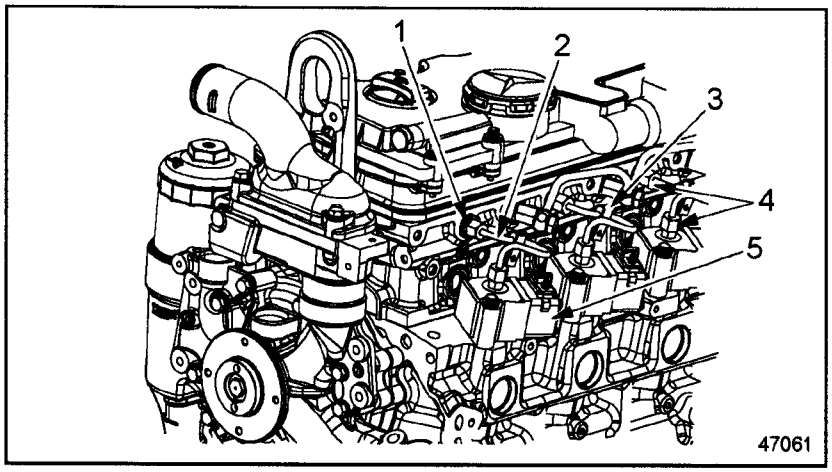
1. Remove the cylinder head cover to improve access to the fuel lines.

2. Remove the engine lifting bracket to improve access to the fuel lines.

   [a] Remove the left front lifting bracket by removing the three bolts securing the bracket to the cylinder head.

   [b] If the application has a high mount fan, remove the three secondary mount bracket retention bolts on the cylinder head and the two bolts on the high mount fan bracket.

3. To prevent the transfer tube from rotating during the high pressure fuel line disassembly, secure the transfer tube thrust nut using a 24 mm fuel line wrench (J-47484 or J-45063) and loosen the high pressure fuel line nut at the transfer tube using a 17 mm fuel line wrench (J-47483) or a 17 mm open end wrench. See Figure 1.



1. Transfer-Tube Nut
2. High Pressure Fuel Line
3. Isolator Clip
4. Fuel Lines Nuts
5. Electronic Unit Pump

Figure 1 High Pressure Fuel Line

⚠ WARNING:
PERSONAL INJURY
To avoid injury from the sudden release of a high-pressure hose connection, wear a face shield or goggles.

NOTICE:
The high pressure fuel injector line and transfer tube are one-time use items. Failure to install a new high pressure fuel injector line and transfer tube will cause fuel leaks and high pressure fuel injector line failures.

4. Using a 17 mm fuel line wrench (J-47483) or a 17 mm open end wrench, loosen the high pressure fuel injector line nut at the electronic unit pump. Discard the high pressure fuel injector line.
5. Using a 24 mm fuel line wrench (J-45063 or J-47484) or a 24 mm socket, loosen the thrust nut on the transfer tube. Remove and discard the transfer tube and the O-ring. See Figure 1.

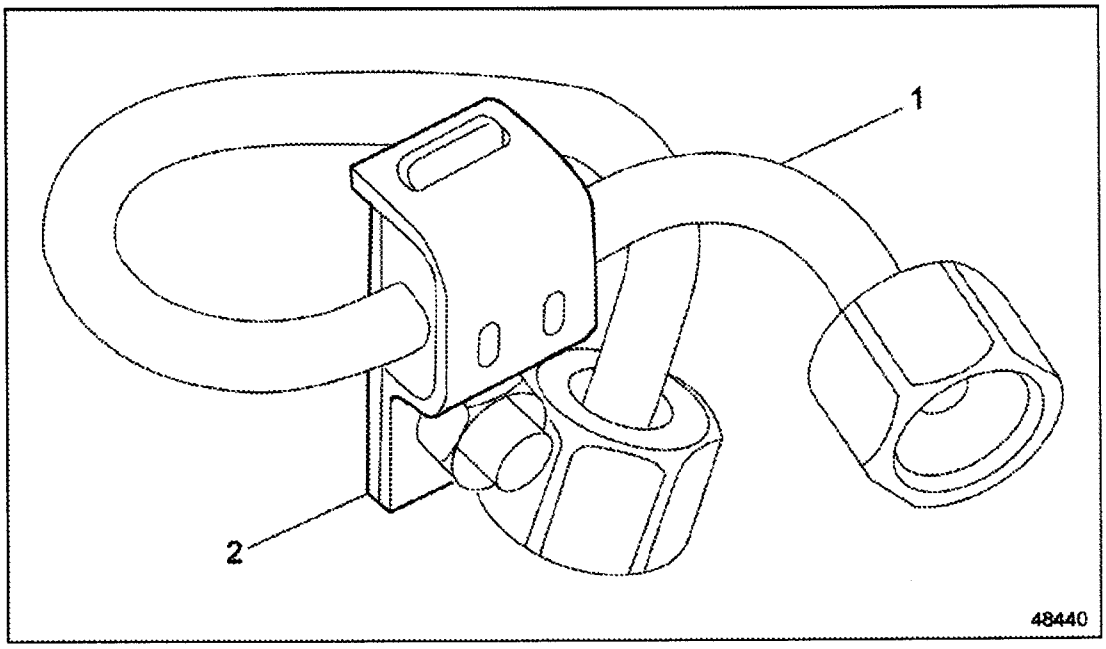
INSTALLATION OF HIGH PRESSURE FUEL LINE

Installation steps are as follows:

NOTICE:
New high pressure fuel injector lines are supplied ready for installation. Never use pliers or sharp-edged tools to bend injector lines. Doing so could damage them. High pressure fuel injector lines should fit without tension over the transfer tube and unit pump fittings.

NOTICE:
Discard the old high pressure fuel line and transfer tube. Do not re-use them!

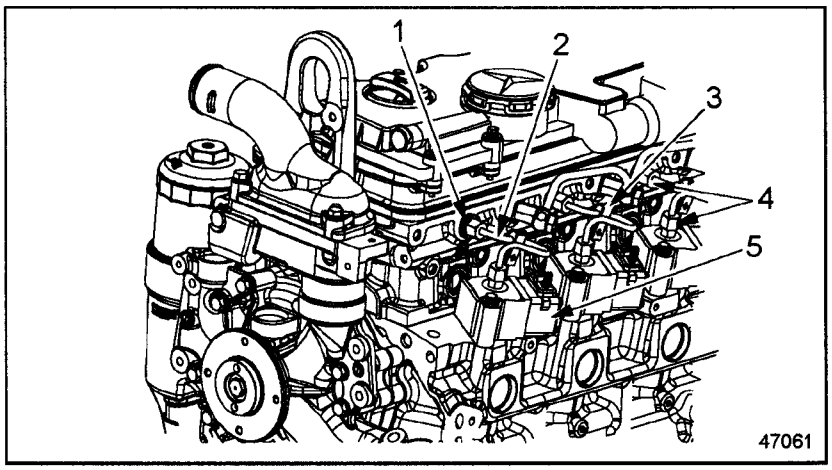
1. The new high pressure fuel line comes assembled with the damper clamp. Ensure that the damper clamp is aligned correctly on the high pressure fuel line and is not in contact with surrounding engine components. See Figure 2.



1. High Pressure Fuel Line
2. Damper Clamp

Figure 2 Damper Clamp Alignment

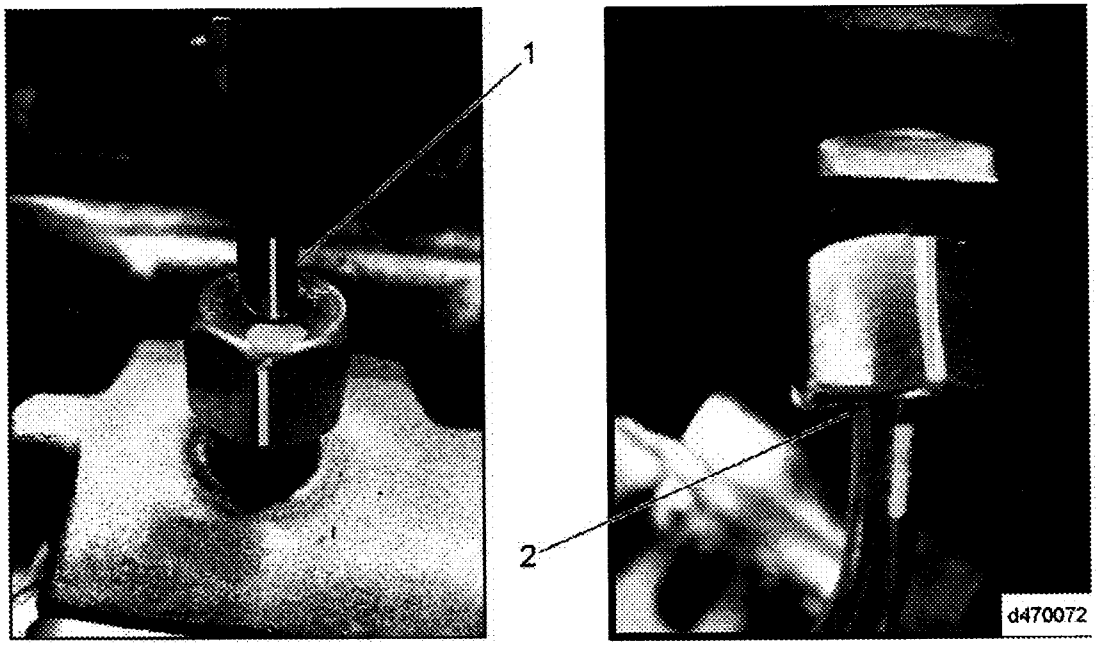
2. Apply a light coat of clean engine oil to the transfer tube O-ring and install the transfer tube into the cylinder head.
3. Using a 24 mm socket, torque the thrust nut to 45 N·m (33 lb·ft).
4. Align the new high pressure fuel injector line fittings to the transfer tube and unit pump. Ensure the fuel line is not installed backwards, and that the end of the high pressure fuel line is properly seated in the transfer tube and unit pump fitting.
5. Hand-tighten the high pressure fuel injector line nut first at the unit pump, and then at the transfer tube. While hand tightening the nuts, gently move the high pressure fuel line back and forth to ensure the end of the line is properly seated in the transfer tube and unit pump fitting. If the high pressure fuel injector line has been installed incorrectly and torqued, remove the high pressure fuel injector line and transfer tube and replace with new parts. Ensure that the damper clamp is not touching any other fuel lines or other engine or vehicle components. See Figure 3.



1. Transfer-Tube Nut
2. High Pressure Fuel Line
3. Isolator Clip
4. Fuel Lines Nuts
5. Electronic Unit Pump

Figure 3 High Pressure Fuel Line

6. Once the high pressure fuel injector line nuts are hand tight, draw a vertical line with a highly visible marker along the front edge of both of the nuts and up the fuel line. The line drawn along the edge of the nuts and the fuel line should be aligned.See Figure 4.



1. Electronic Unit Pump End
2. Transfer Tube End

Figure 4 Marking of High Pressure Fuel Injector Line and Nuts

7. Using a 17 mm fuel line wrench (J-47483) or a 17 mm open end wrench, tighten the high pressure fuel line nut at the unit pump end by turning the nut through 120 degrees. 120 degrees can be measured by turning the nut so that the nut edge which had been marked has been turned through 1/3 of a full turn, or through two nut flats. Lack of space in some engine configurations may mean that the 120 degree turn will have to be completed in two turns of 60 degrees, or one nut flat each. See Figure 5.

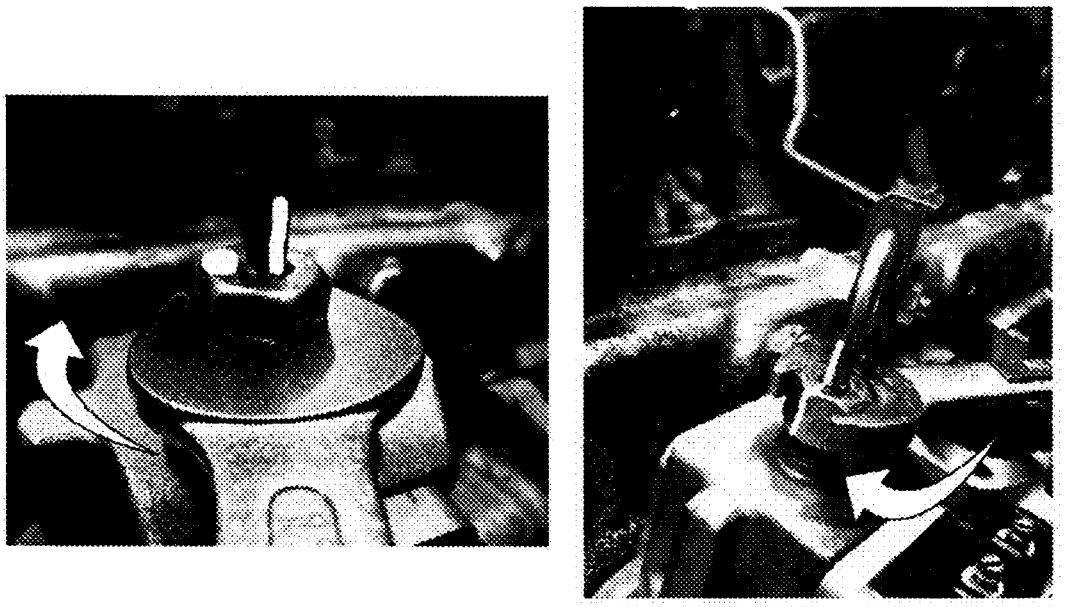


Figure 5 Turning Fuel Line Nut 120 Degrees

8. Using a 24 mm fuel line wrench (J-45063 or J-47484), hold the transfer tube thrust nut. Using a 17 mm fuel line wrench (J-47483) or a 17 mm open end wrench, tighten the high pressure fuel injector line nut at the transfer tube end by turning the nut through 120 degrees. 120 degrees can be measured by turning the nut so that the nut edge which had been marked has been turned through 1/3 of a full turn, or through two nut flats. Lack of space in some engine configurations may mean that the 120 degree turn will have to be completed in two turns of 60 degrees, or one nut flat each. See Figure 5.

NOTICE:
To avoid damage to the high pressure fuel injector lines when applying torque, ensure that the transfer tube thrust nut is held in place with a 24 mm wrench such as (J-45063 or J-47484).

9. Ensure that all six damper clamps on the high pressure fuel injector lines are installed correctly.
10. Install the engine lifting bracket.
    [a] Install the left front lifting bracket and secure lifting bracket to cylinder head using original three bolts. Torque bolts to 50 N·m (37 lb·ft).
    [b] On engine applications with a high mount fan, assemble the secondary mounting bracket using original three bolts on the side of the cylinder head and two bolts on the high mount fan bracket. Torque bolts to 50 N·m (37 lb·ft).
11. Install the cylinder head cover and any other remaining parts.
12. Prime the fuel system. Refer to section "Priming the Fuel System".

⚠ CAUTION:
EXHAUST FUMES
To avoid injury or injury to bystanders from fumes, engine or vehicle fuel system service operations should be performed in a well ventilated area.

NOTICE:
Do NOT loosen any high pressure fuel injector line nuts or other fuel line connections for priming purposes. Use the priming port on the fuel filter housing. Never loosen fuel line connections to bleed air from the fuel system.

13. Run the engine and check for leaks.

NOTICE:
Do NOT re-torque high pressure fuel injector line nuts. If leaks are detected after installation, remove the necessary high pressure fuel injector line and transfer tube, discard them, and install new parts.

14. Shut down the engine.

ADDITIONAL SERVICE INFORMATION

Additional service information is available in *Power Service Literature.*

DETROIT DIESEL
CORPORATION

13400 Outer Drive, West / Detroit, Michigan 48239-4001
Telephone: 313-592-5000
www.detroitdiesel.com