

DAIMLER



Daimler Trucks North America
Nasser Zamani
Manager
Compliance and Regulatory Affairs

July 16, 2008

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-113, 08C-1, MBE 4000 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: 60,870**
- (c) (8)(ii) Communications sent to dealers: posted July 9, 2008
Communications sent to owners: mailed July 9, 2008**
- (c) (10) Copies of Communications sent to owners and dealers are attached.**

Please contact me if you have any questions.

Sincerely yours,

Nasser Zamani

Cc: Michael Mason, CAL-OSHA
Enclosure
Certified Mail# 7004 2890 0004 1202 2113

A Daimler Company

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

July 2008
Safetey Recall 08C-1
NHTSA #08V-113

Subject: MBE 4000 EPA 04 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 MBE 4000 EPA 04 engines, Model Nos. 4067MT6E and 4067MT64, equipped in Freightliner, Sterling, and Western Star Trucks.

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 5.0 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 08C-1
SERVICE ADMINISTRATION CAMPAIGN COORDINATOR (BX-5)**



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

July 7, 2008

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

Attn.: General Service Manager

Subject: **Safety Recall 08C-1**
MBE 4000 EPA04 High Pressure Fuel Lines

Attached is your copy of Safety Recall 08C-1. Also attached is a list of engine serial numbers that, according to our records, are affected by Safety Recall 08C-1.

For affected MBE 4000 EPA 04 engines, Model No. 4067MT6E and 4067MT64, 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 08C-1 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,

A handwritten signature in black ink that reads "David P. Dole".

David P. Dole, Manager
Service Operations

SAFETY RECALL BULLETIN

Subject: **Safety Recall 08C-1**
MBE 4000 EPA04 High Pressure Fuel Lines

Defect Involved

Detroit Diesel Corporation (DDC) has determined that all certified MBE 4000 EPA04 engines, Model No. 4067MT6E and 4067MT64, 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 4000	Model Numbers 4067MT6E and 4067MT64

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 08C-1 has been completed.

Freightliner, Sterling, and Western Star Trucks

- Check the base label (**Form WAR259**) to see if **Safety Recall 08C-1** 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 08C-1** 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 08C-1**, clean a spot on the base label (**Form WAR259**), write the Safety Recall Number (**08C-1**) on a blank, red completion sticker (**Form WAR260**), and attach it to the base label.

Parts Information

- Service Kit Number **A4600700135** is available for the installation of the high pressure fuel lines for all certified MBE 4000 EPA 04 engines, Model No. 4067MT6E and 4067MT64.

Service Kit Part Number: A4600700135

The Service Kit contains the following parts:

Quantity	Description	Part Number
1	Instructions - Fuel Line Retrofit	18SP653
2	Gasket - Mixer Pipe	A9062030480
6	Fuel Line & Damper ASM HPFL	A4600700233
6	Transfer Tube	A9060170524
6	Gasket - Intake Manifold	A4570980180
6	Gasket - Rocker Cover	A4600160021
2	Gasket - EGR Cold Pipe	A4600980080

Corrective Procedure

- **Reference** Installation Instructions 18SP653
EPA04 and EPA98 MBE 4000 High Pressure Fuel Line and Transfer Tube Installation
- **Reference** the MBE Fuel Line Replacement Video on the home page of www.DDCSN.com

Warranty Information

Claim Type:	04
Modification:	08C1
Fault Type:	ZZ
Primary Failed Part:	A4570701333
Labor:	
Truck Models	4.0 Hours
Car Haulers	5.7 Hours
Labor Code:	#024006
Parts Return:	Scrap Parts

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

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

18SP653 – EPA04 and EPA98 MBE 4000® High Pressure Fuel Line and Transfer Tube Installation

KIT DESCRIPTION

A service kit (P/N: A4600700135) is now available to install EPA07 high pressure fuel injector lines and transfer tubes on EPA98 and EPA04 MBE 4000 engines.

KIT CONTENTS

The kit contains the parts listed in Table 1.

Part Number	Qty.	Description
A4600700033	6	High Pressure Fuel Injector Line
A4609950101	6	Damper
A9060170524	6	Transfer Tube
A4570980180	6	Gasket – Intake Manifold
A4600160021	6	Gasket – Cylinder Head Cover
A4600980080	2	Gasket – Elbow-to-Intake Manifold
A9062030480	2	Gasket – Pipe-to-Mixer Housing
18SP653	1	Installation Instructions

Table 1 Kit P/N: A4600700135 MBE 4000 High Pressure Fuel Line and Transfer Tube

INSTALLATION PROCEDURE

Remove the fuel lines and transfer tubes as follows (see Figure 1):

 WARNING:
PERSONAL INJURY
<p>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 pressure fuel may be present within the circuit.</p>

NOTICE:
<p>When replacing high pressure fuel line(s), always replace the associated transfer tube. High pressure fuel lines and transfer tubes are one-time use components. Always discard the old high pressure fuel line and transfer tube.</p>

 **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.

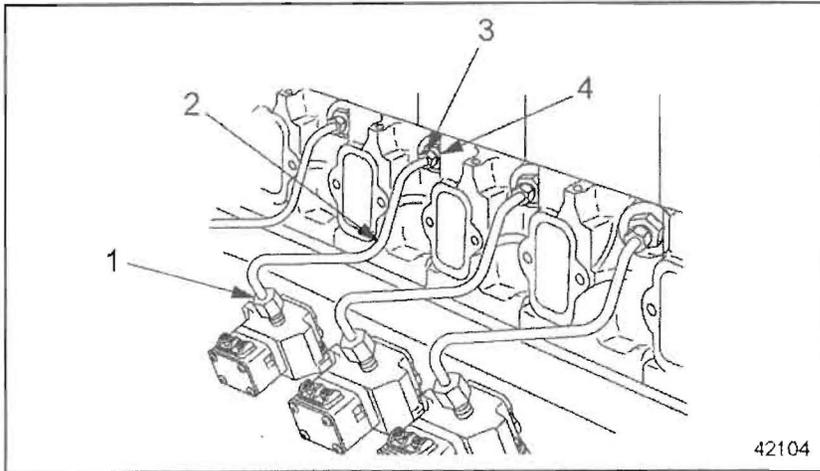
 **WARNING:**

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. Shut off engine and apply the parking brake, chock the wheels, disconnect vehicle battery power, and perform any other applicable safety steps.
2. Remove both engine trim covers. Refer to the *MBE 4000 Workshop Manual* [DDC-SVC-MAN-0023 (6SE412)].
3. Remove the cylinder head cover for all six cylinder heads. Refer to section 1.1.1 of the *MBE 4000 Workshop Manual* [DDC-SVC-MAN-0023 (6SE412)].
4. Remove the intake manifold. Refer to section 6.1.1 of the *MBE 4000 Workshop Manual* [DDC-SVC-MAN-0023 (6SE412)].
5. To prevent the transfer tube from rotating during the high pressure fuel line disassembly, secure the transfer tube thrust nut using 24mm fuel line wrench (J-47484 or J-45063) and loosen the high pressure fuel line nut at the transfer tube using a 17mm wrench.



- | | |
|-----------------------------------------|---------------------------------------------|
| 1. Injector Line Nut, Unit Pump Fitting | 3. Injector Line Nut, Transfer Tube Fitting |
| 2. Injector Line | 4. Thrust Bolt |

Figure 1 Loosening the Injector Line Nuts

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.

- Using a 17mm wrench, loosen the high pressure fuel injector line nut at the injector unit pump. See Figure 1. Discard the high pressure fuel injector line.

WARNING:

EYE INJURY

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

- Using 24mm fuel line wrench (J-45063 or J-47484), loosen the thrust nut on the transfer tube. Remove and discard the transfer tube and the O-ring. See Figure 1.

NOTICE:

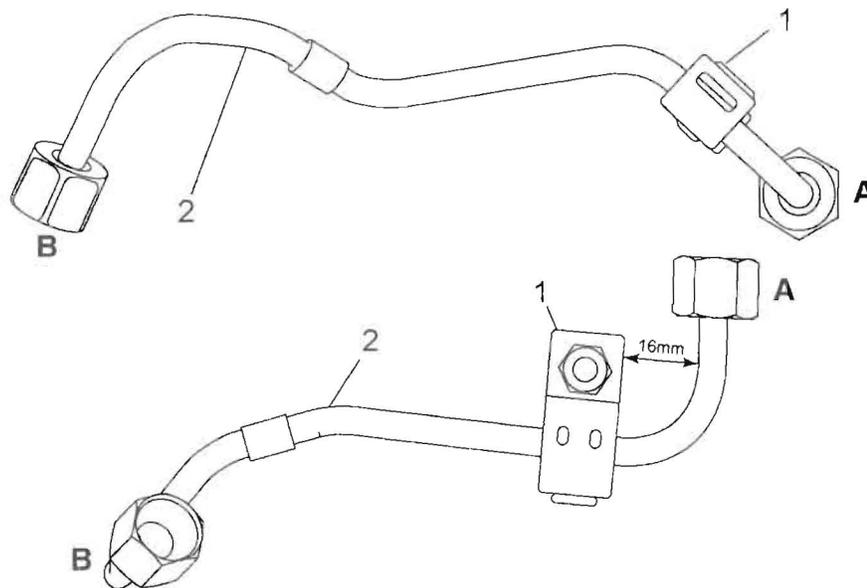
Discard the high-pressure fuel line and transfer tube. Do not re-use them!

Install the new high pressure fuel injector lines and transfer tubes 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.

1. The new high pressure fuel line comes assembled with the damper. Ensure that the damper is aligned correctly on the high pressure fuel line. The damper should be aligned vertically, parallel to the first element of fuel line, which exits the Electronic Unit Pump. The flat side of the damper, where the nut is located, should point towards the Electronic Unit Pump. The damper edge should be 16mm from the edge of the first element of fuel line, which exits the Electronic Unit Pump. See Figure 2.



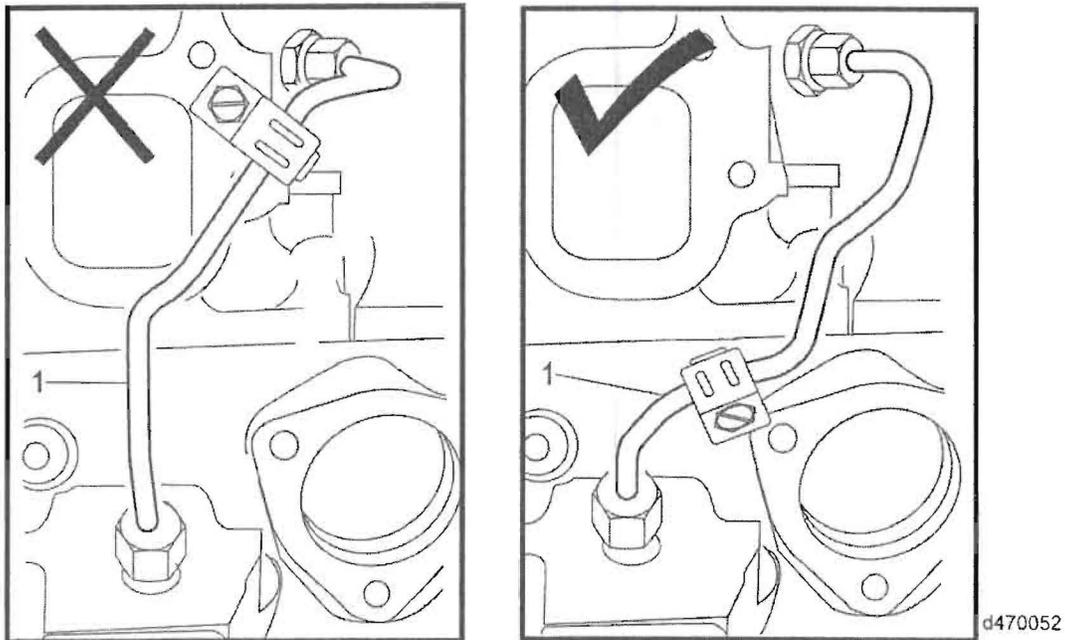
d470053

- | | |
|-------------------------------------|----------------------|
| 1. Damper | A. EUP End |
| 2. High Pressure Fuel Injector Line | B. Cylinder Head End |

Figure 2 Damper Installation

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 24mm 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. Hand tighten the high pressure fuel injector line nut first at the unit pump, and then at the transfer tube. While hand

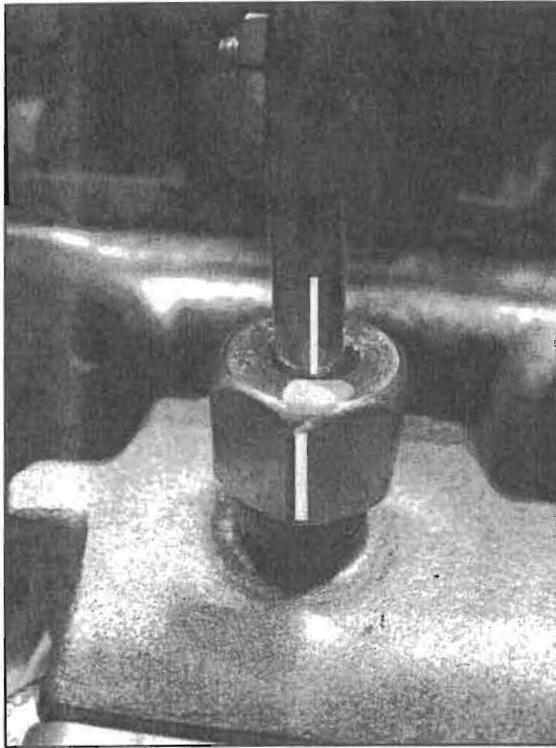
tightening the nuts, gently move the high pressure fuel line back and forth to ensure the end of the line is properly seated in the transfer tube and unit pump fitting. See Figure 3 for the proper orientation of the fuel line. If the high pressure fuel injector line has been installed incorrectly and torqued, remove the high pressure fuel injector line and transfer tube and replace with new parts. Ensure that the damper is not touching any other fuel lines or other engine or vehicle components.



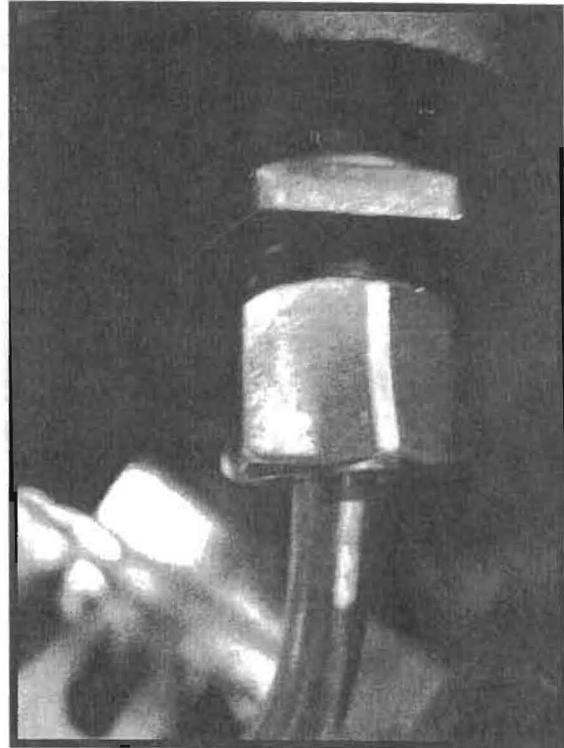
1. High Pressure Fuel Line

Figure 3 New High Pressure Fuel Injector Line Installation

5. 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.



Electronic Unit Pump End



Transfer Tube End

Figure 4 Marking Of High Pressure Fuel Injector Line And Nuts

- Using a 17mm 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 bolt 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 bolt flat each. See Figure 5.

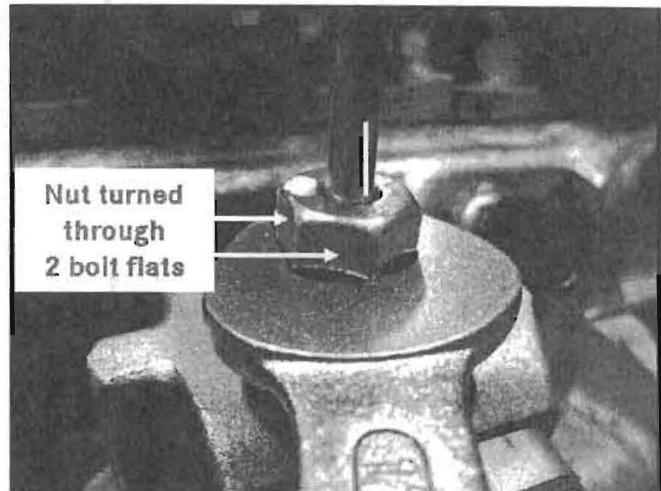
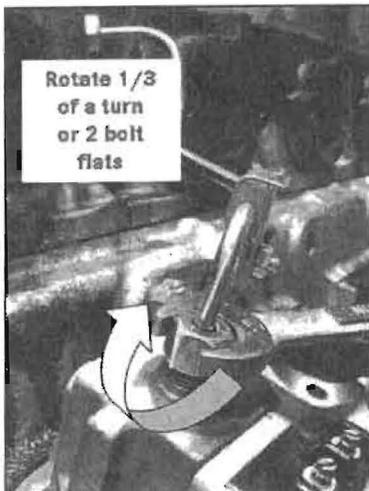


Figure 5 Turning Fuel Line Nut 120 Degrees at Unit Pump End

- Using 24mm fuel line wrench (J-45063 or J-47484), hold the transfer tube thrust nut. Using a 17mm 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 bolt 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 bolt flat each. See Figure 6.

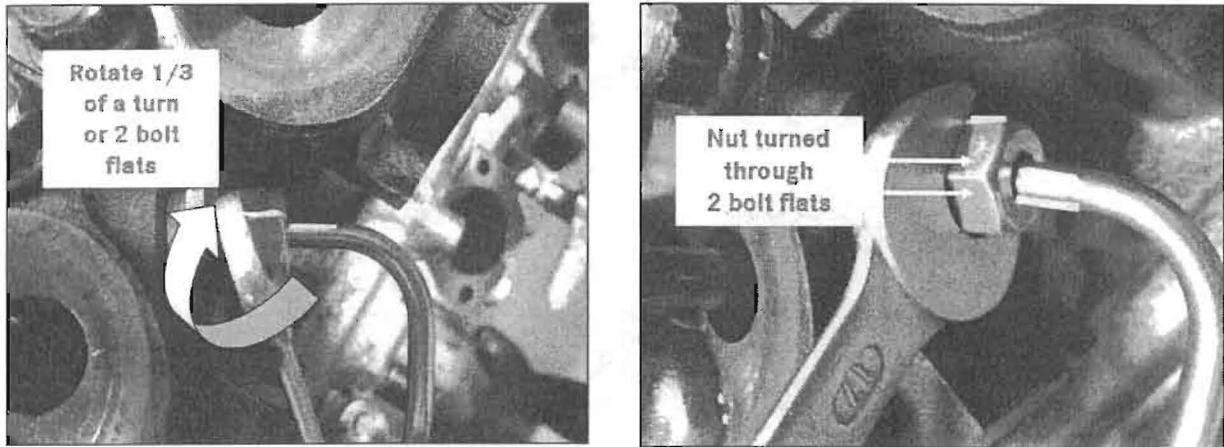


Figure 6 Turning Fuel Line Nut 120 Degrees At Transfer Tube End

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 24mm wrench such as (J-45063 or J-47484).

- Ensure that all six dampers on the high pressure fuel injector lines are installed correctly. The damper should be aligned vertically, parallel to the first element of fuel line, which exits the Electronic Unit Pump. See Figure 7.

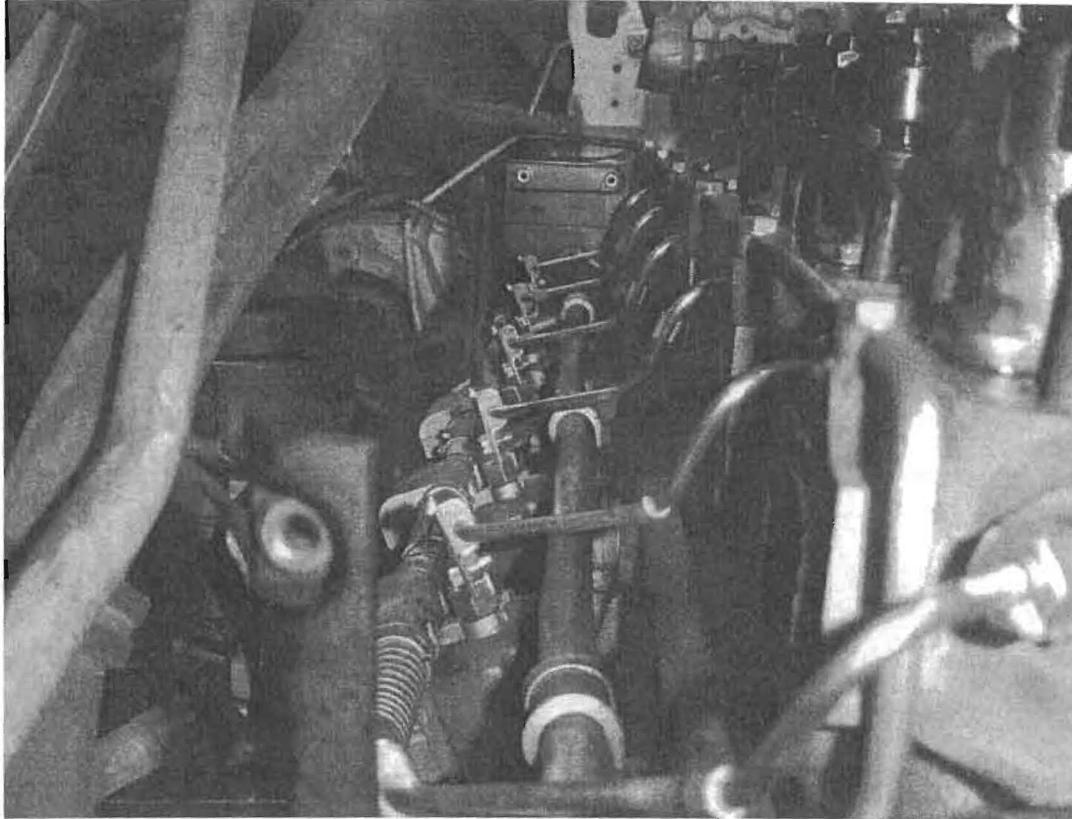


Figure 7 Correct High Pressure Fuel Line Installation

9. Install the intake manifold. Refer to section 6.1.2 of the *MBE 4000 Workshop Manual* [DDC-SVC-MAN-0023 (6SE412)].
10. Remove the red label on the intake manifold that shows the torque specification for the high pressure fuel line since it is no longer applicable. See Figure 8.

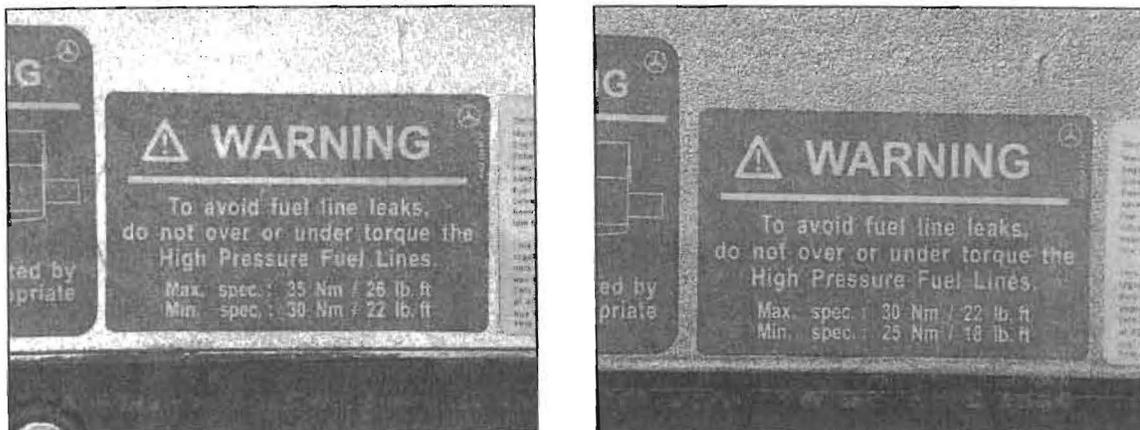


Figure 8 Removal Of Red Torque Specification Label On Intake Manifold

11. Install the cylinder head covers. Refer to section 1.1.2 of the *MBE 4000 Workshop Manual* [DDC-SVC-MAN-0023 (6SE412)].
12. Prime the fuel system. Refer to section 11.1.5 of the *MBE 4000 Workshop Manual* [DDC-SVC-MAN-0023 (6SE412)].

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 for engine s/n 0460810824 (EGR) or s/n 0460805219 (non-EGR) and higher. Engines built prior to the change points will have the priming port installed through Campaigns 06C-2 (EGR) and 06C-1 (non-EGR). Never loosen fuel line connections to bleed air from the fuel system.

 **WARNING:**

PERSONAL INJURY

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

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.



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www.detroitdiesel.com

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18SP653 0804 As technical advances continue, specifications will change. Printed in U.S.A.