

DAIMLER

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

February 20, 2012

Nancy Lewis
Associate Administrator for Enforcement
National Highway Traffic Safety Administration
Attention: Recall Management Division (NVS-215, Rm. W45-206)
1200 New Jersey Avenue S.E.
Washington D.C. 20590

**RE: Defect Information Report – Supplemental Report No. 3
11V-478, (11C-2, FL-613) EPA04 MBE 4000 Low Pressure Fuel Lines
Dealer Notice**

Ms. Lewis,

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 distributed to dealers.

- (c)(3) Total number of vehicles potentially affected: 57,989.
- (c)(8)(ii) Dealer and distributor notification: Began and ended: February 16, 2012.
- (c)(10) A copy of communications sent to dealers is attached.

Please contact me if you have any questions, or concerns.

Sincerely yours,



Nasser Zamani

Cc: Amy Martin, CAL-OSHA
Attachment

SAFETY RECALL BULLETIN

Subject: **Safety Recall 11C2**
EPA04 MBE 4000 Low Pressure Fuel Line

Defect Involved

Detroit Diesel Corporation (DDC) has determined that some certified EPA04 MBE 4000 engines will require replacement of the low pressure fuel line with the latest design made from steel. There are approximately 70,830 engines involved, but some engines may have already been retrofitted with the new steel line and will not require any work. Replacing the low pressure fuel line will prevent fuel leaks that may result in customer dissatisfaction. In addition to installing the new parts, the fuel filter housing wall thickness will need to be inspected on EPA 04 engines within serial number range 0460878301 through 0460884090.

Engines Involved

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

Model Series	Model Year	Inclusive Mfg. Date (From) (To)	Descriptive Information
4067MT6E	2004 2005 2006	January, 2004 to December, 2006	All Applications Except Car Hauler With Rear Mounted Fuel Filter Housing

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.

Safety Recall Bulletin 11C2

Page Two

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 11C2 has been completed.

Freightliner, Sterling, and Western Star Trucks

- Check the base label (**Form WAR259**) to see if **Safety Recall 11C2** 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 11C2** 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 11C2**, clean a spot on the base label (**Form WAR259**), write the appropriate Safety Recall Number (**11C2**) 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 going to the Detroit Diesel Extranet and click 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
A4600702932	1	EPA04 MBE4000 Steel Low Pressure Fuel Line Kit

Safety Recall Bulletin 11C2

Page Three

Corrective Procedure

1. Apply the parking brake, chock the wheels, disconnect vehicle battery power, and perform any other applicable safety steps.
2. On the left side of the engine, **INSPECT** the low pressure fuel line that runs from fuel filter housing to the left front of the cylinder block. Reference Figure 1 for the location and appearance of the unpainted **NEW** steel fuel line.
 - a. If it is an unpainted **STEEL** line, then it does **NOT** need replacing and the fuel filter housing does **NOT** need to be inspected. Go to step 4.
 - b. If it is a **PLASTIC** line (painted or unpainted), then it **WILL** need to be replaced. Also, the fuel filter housing will need to be inspected on engine serial number range 0460878301 through 0460884090. Go to step 3.

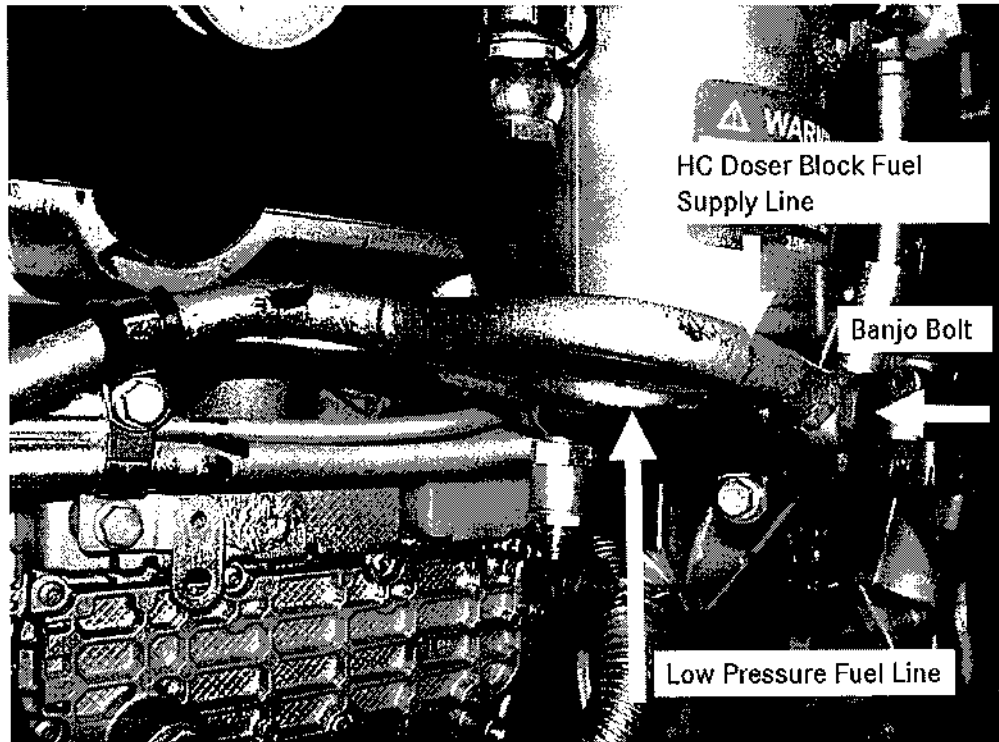


Figure 1 – Steel Low Pressure Fuel Line

3. **REFERENCE 18SP660Rev2** in the service kits for installation instructions on the new steel low pressure fuel line. New tool J-50161 Go/No-Go Gauge has been shipped to all DDC certified service locations for use in qualifying fuel filter housings on engine serial number range 0460878301 through 0460884090. The gauge has been supplied and shipped at no cost. **REFERENCE** attached tool letter 09 TL-10. If you no longer have tool J-50161, a replacement can be purchased at the repair shop expense.
4. Check the routing of the ECU harness in the engine compartment, and make sure it is not rubbing on any of the fuel lines. As needed, use double tie straps to separate the fuel line(s) from the harness.
5. Reconnect vehicle battery power, start the engine, and verify repairs.

Warranty Information

- A. For **Fuel Filter Housing Inspection** and **Low Pressure Line Replacement** use the following criteria when filing a claim: Note, also use this operation for **Replacement of the Low Pressure Fuel Line only**.

Claim Type:	04
Modification:	11C2
Fault Type:	ZZ
Primary Failed Part:	A4600901676
Labor:	1.0 Hours
Labor Code:	R11C2A
Parts Return:	NONE

- B. For **Fuel Filter Housing Inspection** *and* **Low Pressure Fuel Line Replacement** and **Fuel Filter Housing Replacement** use the following criteria when filing a claim:

Claim Type:	04
Modification:	11C2
Fault Type:	ZZ
Primary Failed Part:	A4600901676
Labor:	1.5 Hours
Labor Code:	R11C2B
Parts Return:	YES – Fuel Filter Module Only

Safety Recall Bulletin 11C2

Page Five

- C. For **Low Pressure Fuel Line Inspection only** when finding a steel line already installed, use the following criteria when filing a claim: **Note, please apply the 11C2 recall sticker to the appropriate door location in this case also.**

Claim Type:	04
Modification:	11C2
Fault Type:	ZZ
Primary Failed Part:	A4600901676
Labor:	.3 Hours
Labor Code:	R11C2C
Parts Return:	NONE

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

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



DETROIT[™]
DEMAND PERFORMANCE[™]

**18SP660Rev2 – EPA04 and EPA07 MBE 4000 Steel
Low Pressure Fuel Line Kits
(P/N: A4600702932 and
A4600703032)**

KIT DESCRIPTION

New service kits (P/N: A4600702932 and A4600703032) contain a steel low pressure fuel line and associated parts to replace the former plastic fuel line. In addition to installing the parts, EPA04 engines relative to recall 11C2 equipped with a Hengst fuel filter housing with engine serial numbers from 0460878301 to 0460884090 and EPA07 engines relative to recall 09C2 with a Hengst fuel filter housing with engine serial numbers from 0460847011 to 0460888753 must have the fuel filter housing wall thickness inspected.

KIT CONTENTS

The two new service kits contain the parts listed in Table 1:

Part No.	Description	EPA04 Kit P/N: A4600702932 (qty.)	EPA07 Kit P/N: A4600703032 (qty.)
A4600702832	Steel Low Pressure Fuel Line	1	1
N915036012101	Banjo Bolt – M16 x 28	2	1
N915047012100	Banjo Bolt – M16 x 46	-	1
N000000001070	Seal Ring	4	5
18SP660Rev2	Installation Instructions	1	1

Table 1 EPA04 and EPA07 MBE 4000 Steel Low Pressure Fuel Line Kits

NOTE:

If engine is currently equipped with the steel low pressure fuel line part number A4600702832, **no further action is required.**



PERSONAL INJURY

To avoid injury, never remove any engine component while the engine is running.



PERSONAL INJURY

To avoid injury from accidental engine startup while servicing the engine, disconnect/disable the starting system.



PERSONAL INJURY

To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

REPLACEMENT PROCEDURE

Install the new steel low pressure fuel line as follows.

NOTE:

Certain parts must be retained during the removal process for reuse during the installation process. These parts will be noted in **bolded** font in the removal steps below.

REMOVAL

1. Apply the parking brake, chock the wheel, disconnect vehicle battery power, and perform any other applicable safety steps.
2. Open the fuel tank fill cap to release pressure in the fuel system. Replace and tighten the cap.
3. Loosen the alternator belt.
4. Remove four M10 x 100 bolts that secure the alternator to its mounting bracket. **Save bolts for reuse.**

5. Gently remove the alternator and set on frame rail. Be careful not to damage the alternator or the cables attached to it. See Figure 1.

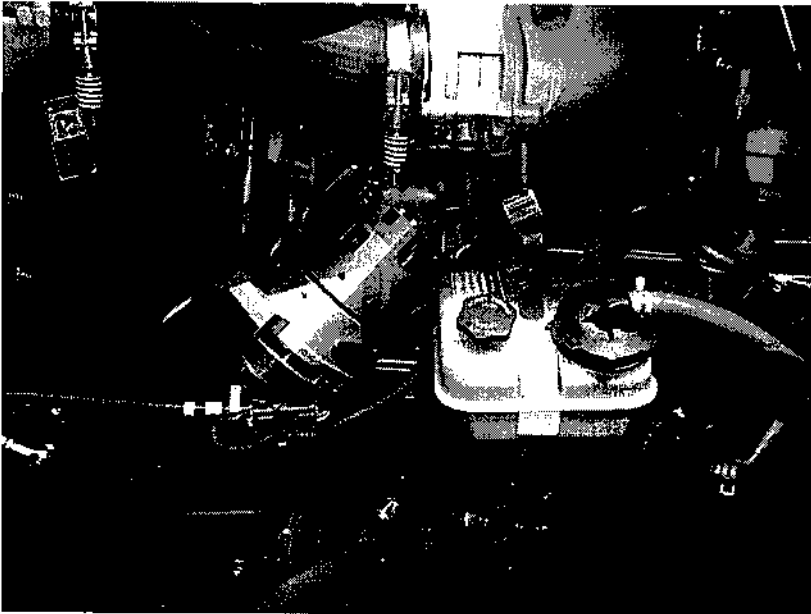


Figure 1 Alternator Removal

6. Remove two M8 x 40 bolts from the low pressure fuel line clamps. **Save bolts and clamps for reuse.** See Figure 2.

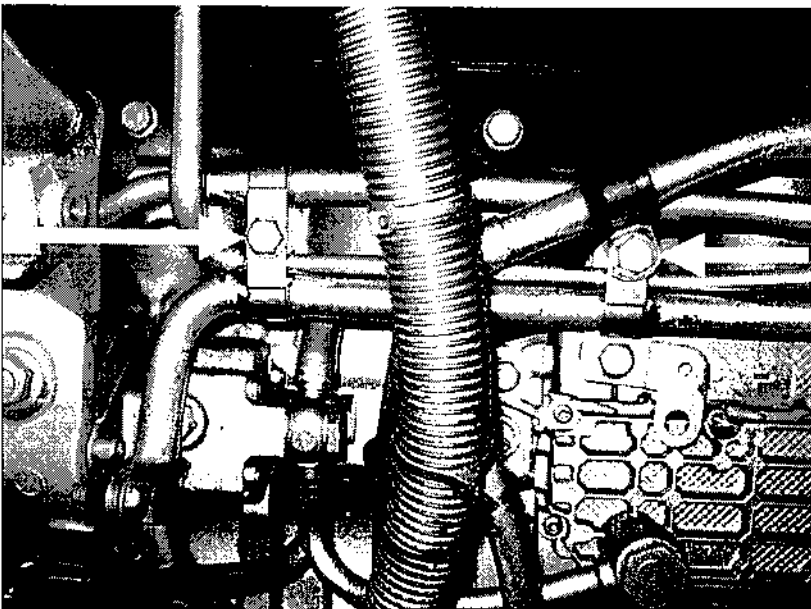


Figure 2 Fuel Line Clamp Removal

7. Remove M16 x 28 banjo bolt on plastic low pressure fuel line at front of block through access hole in alternator mounting bracket. Do **NOT** remove the spacer the bolt threads in to. Discard banjo bolt and two seal rings. See Figure 3. Torque spacer to 50 N·m (37 lb·ft) to insure it did not loosen during banjo bolt removal.

NOTE:

In a suitable container, catch any fuel that runs out of the low pressure fuel line or cylinder block.

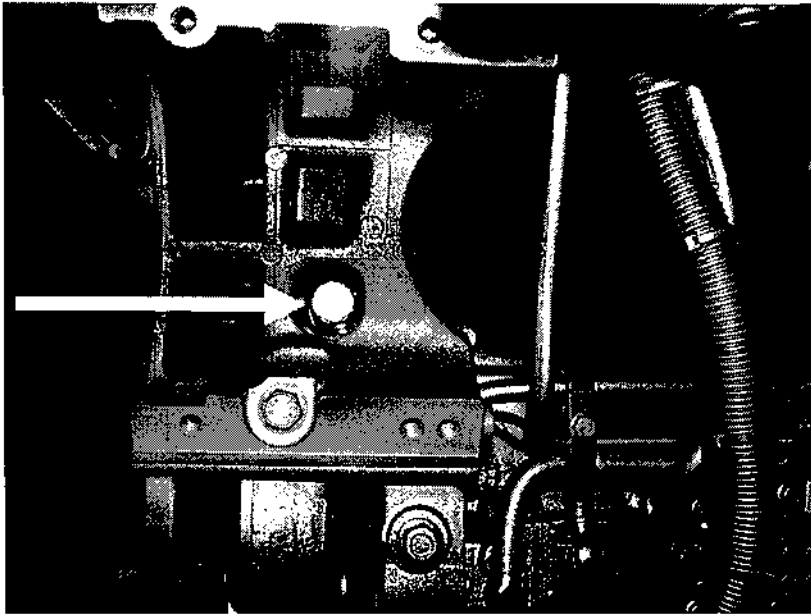


Figure 3 **Cylinder Block Banjo Bolt Removal**

8. Remove banjo bolt at other end of low pressure fuel line at fuel filter housing. Discard the banjo bolt and seal rings. See Figure 4 (EPA07 configuration).

NOTE:

In a suitable container, catch any fuel that runs out of the low pressure fuel line or fuel filter housing.

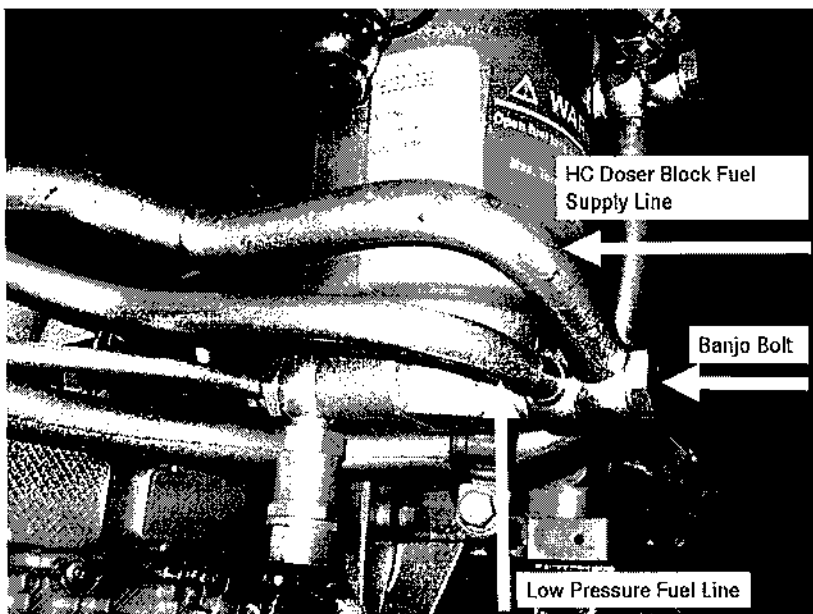


Figure 4 Fuel Filter Housing Banjo Bolt Removal (EPA07 Configuration)

9. Remove plastic low pressure fuel line from engine. Discard fuel line. Be careful not to damage the hydrocarbon doser block fuel supply line (EPA07 configuration).

10. Engines equipped with a Hengst fuel filter housing with an EPA04 engine relative to recall 11C2, serial numbers between 0460878301 and 0460884090 or EPA07 engines relative to recall 09C2, serial numbers between 0460847011 and 0460888753 must have the fuel filter housing wall thickness inspected. Insert tool J-50161 into the hole in the fuel filter housing where the low pressure fuel line was removed, until it bottoms out.

NOTE:

On the Hengst housing, the low pressure fuel line bore is marked with a letter "A" for reference. See Figure 5.

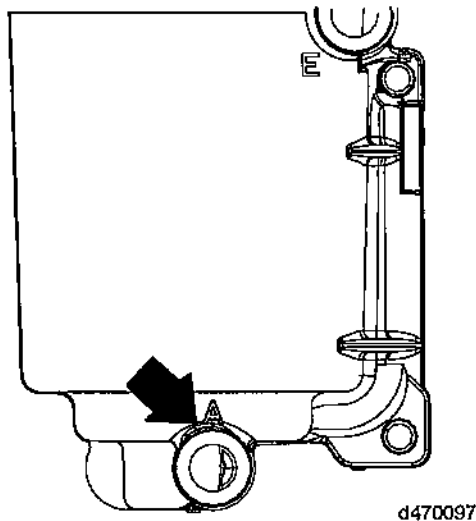
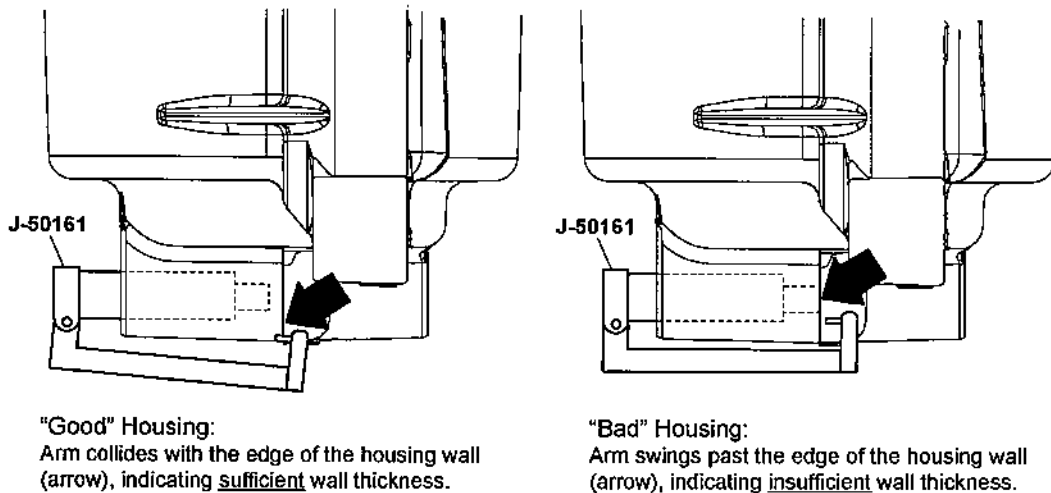


Figure 5 **Low Pressure Fuel Line Hole**

11. Swing the tool arm up from the bottom to avoid interference with fuel lines. See Figure 6.
 - a. If the arm **DOES NOT** go past the end of the fuel filter housing, the housing has sufficient wall thickness.
 - b. If the arm **DOES** go past the end of the fuel filter housing and ends up parallel with the stationary body of the gauge, the housing does not have sufficient wall thickness and **MUST** be replaced.

NOTE:

Refer to 10 TS-5 for warranty information and DDC-SVC-MAN-0026 for repair information.



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Figure 6 Fuel Filter Housing Thickness Measurement

INSTALLATION

1. Place new steel low pressure fuel line (P/N: A4600702832) into position.
2. Install and hand tighten new M16 x 28 banjo bolt (P/N: N915036012101) with two new seal rings (P/N: N000000001070) on new steel low pressure fuel line into spacer at front of cylinder block through alternator mounting bracket access hole.
3. Install and hand tighten new M16 banjo bolt at fuel filter housing:
 - a. For EPA04 configuration, use M16 x 28 banjo bolt (P/N: N915036012101) with two new seal rings (P/N: N000000001070).
 - b. For EPA07 configuration, use M16 x 46 banjo bolt (P/N: N915047012100) with three new seal rings (P/N: N000000001070), along with the hydrocarbon doser block fuel supply line. The new steel low pressure fuel line will be closest to the fuel filter housing. Do **NOT** bend either the steel low pressure fuel line or the hydrocarbon doser block fuel supply line. See Figure 7 for the correct installation of the lines.

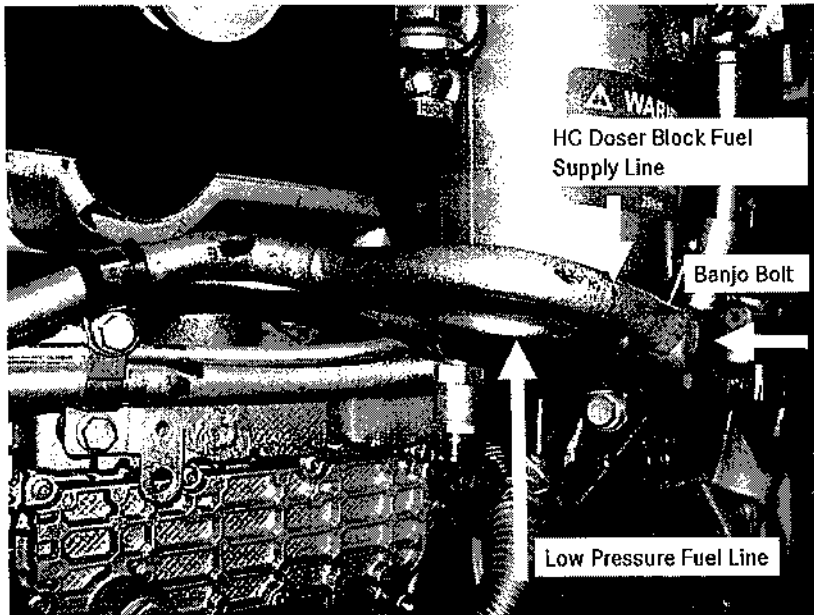


Figure 7 Steel Fuel Line Installation (EPA07 Configuration)

4. Torque the banjo bolts to 40 N·m (30 lb·ft), starting with the banjo bolt at the front of the cylinder block.
5. Install fuel line clamps in their original positions. Clamps must go over foam covered areas of the fuel lines. See Figure 8.

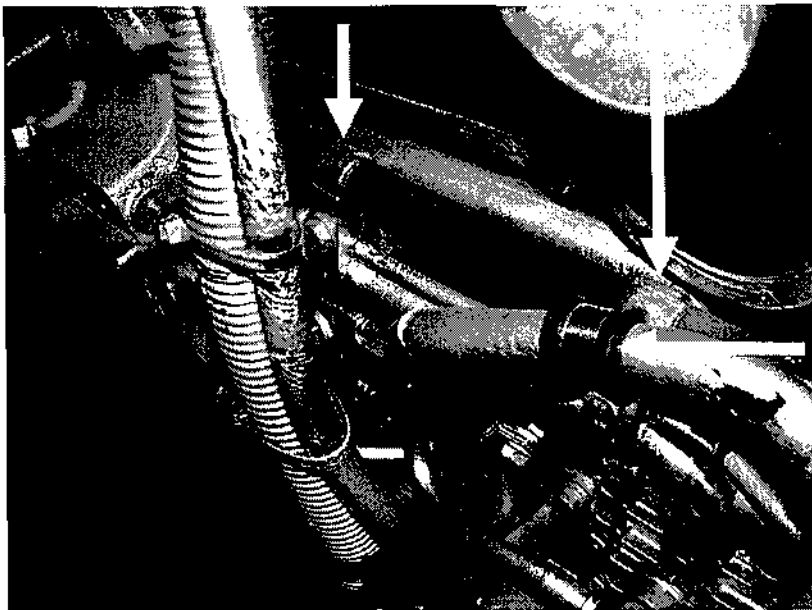


Figure 8 Steel Fuel Line Clamp Installation (EPA07 Configuration)

6. Torque clamp bolts to 25 N·m (18 lb·ft).
7. Install alternator to its mounting bracket with four M10 x 100 bolts. Torque bolts to 46 N·m (34 lb·ft).
8. Install and tighten alternator belt to correct specifications.
9. Reconnect vehicle battery power.
10. Prime fuel system.



ENGINE EXHAUST

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

11. Start engine.
12. For EPA07 engines, use the purge function in DDDL/DDRS 7.0 to purge all the air from the hydrocarbon doser system.
13. Run engine and verify repair.



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www.detroitdiesel.com

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18SP660Rev2 1202 As technical advances continue, specifications will change. Printed in U.S.A.

Daimler Trucks North America LLC

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13400 Outer Drive, West
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Subject: Safety Recall 11C2
EPA04 MBE 4000 Low Pressure Fuel Line

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

Daimler Trucks has decided that a defect which relates to motor vehicle safety exists in certain model year 2004 through 2008 Freightliner (Business Class M2, Columbia, Cascadia, and FLD), Sterling (A-Line and L-Line) and Western Star (4900) vehicles, manufactured from July 11, 2003 through September 28, 2007 and equipped with MBE4000 EPA04 engines built with plastic low pressure fuel lines and fuel filters mounted near the center of the engine on the left-hand side.

Detroit Diesel Corporation has determined that certain certified EPA04 MBE4000 engines are equipped with a plastic low pressure fuel line between engine mounted fuel filter and engine block and may develop a substantial diesel fuel leak, potentially creating a road hazard increasing the risk of a motor vehicle accident.

Please contact a Detroit Diesel Authorized Repair Facility to arrange to have the Recall performed and to ensure that parts are available. To locate an authorized facility, search online at www.detroitdiesel.com/supportnetwork/. The Recall will take approximately 1.5 hours and will be performed at no charge to you. Also, owners may be liable for any progressive damage that results from failure to complete this recall within a reasonable time after receiving this notification.

IMPORTANT: When the Recall has been completed, please ensure that a label has been affixed to your vehicle referencing 11C2 which is located on the passenger-side door about 12 inches (30 cm) below the door latch.

If you do not own the unit that corresponds to the identification number(s) which appears on the Pre-Recall Notification, please return the notification with any information you can furnish that will assist us in locating the present owner. If you have leased this vehicle, Federal law requires that you forward this notice to the lessee within ten days. If you are a subsequent stage manufacturer, Federal law requires that you forward this notice to your distributors and retail outlets within five working days. If you have paid to have this recall condition corrected prior to this notice, you may be eligible to receive reimbursement for the cost of obtaining a pre-notification remedy of the problem associated with this recall. For more information on this, contact Warranty Administration at Detroit Diesel Corporation, 13400 Outer Drive West, Detroit, MI 48239 or call (313) 592-3708.

If you have questions about this Recall, please contact the **Detroit Diesel Customer Support Center**, 13400 Outer Drive West, Detroit, MI 48239, or call **(800) 445-1980** between **8:00 a.m. to 7:00 p.m. Monday through Friday and 9:00 a.m. to 3:00 p.m. on Saturday Eastern Standard Time**. If your dealer or an authorized Detroit Diesel service center fails or is unable to remedy this defect without charge and within a reasonable time you may submit a written complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE, Washington, DC 20590, or call 888 327-4236 (TTY: 800-424-9153), or go to <http://www.safercar.gov> if remedy difficulties exist. For **Canadian** customers, **please** contact our customer service or for additional info about the recall, you can contact **Transport Canada** at **(800) 333-0510**.

We regret any inconvenience this action may cause but feel certain you understand our interest in motor vehicle safety.