

DAIMLER

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

January 4, 2010

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
09V-390, FL-560, EPA07 DD15 High Pressure Fuel Pump**

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 distributed to dealers and purchasers.

- (c)(3) Total number of vehicles potentially affected: 2,726
- (c) (8)(ii) Communications sent to dealers: posted December 16, 2009
Communications sent to owners: mailed December 22, 2009
- (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#70042890000412022458

A Daimler Company

Daimler Trucks North America LLC
4747 N. Channel Avenue
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Detroit Diesel Corporation
13400 Outer Drive, West
Detroit, Michigan 48239-4001
Telephone: 313-592-5000

December 16, 2009

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

Attn.: General Service Manager

Subject: **Safety Recall 09C3**
EPA07 DD15 High Pressure Fuel Pump

Attached is your copy of Safety Recall 09C3. Also attached is a list of engine serial numbers that, according to our records, are affected by Safety Recall 09C3.

Certain EPA07 DD15 engines may have under-torqued bolts on the high pressure fuel pump that will require one of the following repairs:

- **Inspection Only**
- **Inspection and Bolt Re-Torque**
- **Inspection and Pump Replacement**

By inspecting, re-torquing or replacing the pump will prevent 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. **However, Dealers must complete all outstanding Recalls prior to the sale or delivery of an engine. Dealers will be liable for any progressive damage that results from its failure to complete Recalls before sale or delivery of an engine.**

Instructions for indicating that Campaign 09C3 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, Sr. Manager
Warranty Operations



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

Attn: Equipment Owner

Subject: Safety Recall 09C3
EPA07 DD15 High Pressure Fuel Pump

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 EPA07 DD15 engines equipped in Daimler Truck North America vehicles.

The bolts on the high pressure fuel pump will need to be inspected and determined if the bolts need to be re-torqued or if the high pressure fuel pump needs to be replaced. By inspecting, re-torquing or replacing will prevent 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 Diesel 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 will range from 1.0 to 7.0 hours depending on the required repair.

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 Customer Support Center at Detroit Diesel Corporation, 13400 Outer Drive West, Detroit, MI 48239 or call (313) 592-5800.

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 09C3
SERVICE ADMINISTRATION CAMPAIGN COORDINATOR (BX-5)**

SAFETY RECALL BULLETIN

Subject: **Safety Recall 09C3**
EPA07 DD15 High Pressure Fuel Pump

Defect Involved

Detroit Diesel Corporation (DDC) has determined that some certified EPA07 DD15 engines may have under-torqued bolts on the high pressure fuel pump that will require inspection. This will prevent fuel leaks and customer dissatisfaction.

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	Model Year	Inclusive Mfg. Date (From) (To)	Descriptive Information
D472900 D472901 D472902	2008	April, 2008, to December, 2008	All Applications

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.

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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 09C3** has been completed.

Freightliner, Sterling, and Western Star Trucks

- Check the base label (**Form WAR259**) to see if **Safety Recall 09C3** 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 09C3** 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 09C3**, clean a spot on the base label (**Form WAR259**), write the Safety Recall Number (**09C3**) on a blank, red completion sticker (**Form WAR260**), and attach it to the base label.

Ordering Information

If you do not have the appropriate Form or Labels (DDC_WAR 259, DDC_WAR 260, DDC_WAR 261) there are several ways which they can be obtained:

1. Through the Detroit Diesel Extranet and clicking on Access EPI or going directly to ddc@epiinc.com.
2. Fax your order to (269) 968-4260; or
3. Contact EPI directly at (269) 964-4600 Ext. 5806.

Parts Information

There are no formal parts required to complete **Safety Recall 09C3**. Please reference the **Corrective Procedure** for the **Replacement Pump Procedure**.

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Corrective Procedure

A repair kit will be supplied free of charge by the high pressure fuel pump vendor (Bosch) to all DD15 certified repair shops as part of **Safety Recall 09C3**. The tools in this repair kit will be used to inspect and re-torque the necessary bolts. The Bosch repair kit will consist of the following items:

- Four (4) green plastic rail caps
- Six (6) clear plastic pumping element caps
- Yellow paint pen
- Torque adaptor

In addition to the Bosch supplied repair kit, you will need the following tools:

- 3/8" drive torque wrench (recently calibrated to ensure accuracy)
 - 3/8" drive extension
1. Apply the parking brake, chock the wheels, disconnect the batteries, and perform any other applicable safety steps.
 2. The number that will identify whether the pump needs to be repaired is found on the identification tag located on the side of the high pressure fuel pump. The four digits that you will need are shown in the two examples in Figure 1. Note the last four digits as shown. If the pump has five digits, use the last four numbers in the series.

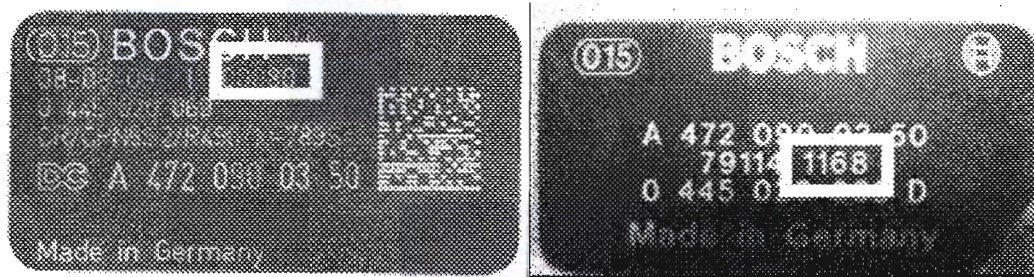


Figure 1 – High Pressure Fuel Pump Identification Tag

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3. Take the numbers noted in step #2 and use the database provided on DDCSN to verify that the pump is eligible for this repair. Use the following link to access the spread sheet and reference Figure 2.

<http://extranet.detroitdiesel.com/HighPressureSerialPump/Default.aspx>

The screenshot shows a web-based form titled "Serial Number Verification For High Pressure Fuel Pumping Element Repair". The form includes the Detroit Diesel logo in the top right corner. The form fields are as follows:

- Brand Name: [Text Input]
- Model Number: [Text Input]
- Year: [Text Input]
- State: [Text Input]
- Plant Code: [Text Input]
- Location: [Text Input]
- Customer Name: [Text Input]
- Engine Serial Number: [Text Input]
- Pump Serial Number: [Text Input]

At the bottom of the form, there is a "Submit" button and a small copyright notice: "© 2009 Detroit Diesel Corporation".

Figure 2 – DDCSN Serial Number Verification Screen

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4. Input the vehicle and fuel pump information into the database and it will give a result either to continue with the repair or that the pump is good and no repair is needed.
 - a) If the pump is **GOOD**, then no further work is needed and you can stop here. See Figure 3.
 - b) If the pump is **BAD**, continue to step #5 to inspect the high pressure fuel pump. See Figure 4.


Serial Number Verification
For High Pressure Fuel Pumping Element Repair

DETROIT DIESEL 

Serial Information	
Distributor, Dealer or Fleet Code	00000000
Location Name*	Truck Repair Facility
Address*	1234 Diesel Dr
City*	Anytown
State	MI
Postal Code	12345
Country*	US
Technician Name*	John Doe
Original Serial Number*	4750RSD06001
Parts Serial (Last 4 Digits)*	1102
Message*	123456
Does the serial number on the part match ours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
* Required Fields	
No error reported	
<input type="button" value="Check Additional Details"/>	
<input type="button" value="Submit"/>	

Figure 3 – Good High Pressure Pump

Serial Number Verification
For High Pressure Fuel Pumping Element Repair

DETROIT DIESEL 

Serial Information	
Distributor, Dealer or Fleet Code	00000000
Location Name*	Truck Repair Facility
Address*	1234 Diesel Dr
City*	Anytown
State	MI
Postal Code	12345
Country*	US
Technician Name*	John Doe
Original Serial Number*	4750RSD06001
Parts Serial (Last 4 Digits)*	1101
Message*	123456
Does the serial number on the part match ours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
* Required Fields	
Error reported: 06001 and 06002 are not valid serial numbers	
<input type="button" value="Check Additional Details"/>	
<input type="button" value="Submit"/>	

Figure 4 – Bad High Pressure Pump

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5. **CAREFULLY** inspect the two high pressure fuel pump elements where they seal to the main pump body. See Figure 5.
 - a) If fuel leaks or sweating fuel is noted from either pumping element sealing surface, **REMOVE** and **REPLACE** the high pressure fuel pump. No further work is necessary after replacing the pump.
 - b) If no fuel leaks or sweating fuel is found, continue to step #6.

NOTICE:

Do **NOT** attempt to repair a leaking high pressure fuel pump. You **MUST** remove and replace the high pressure fuel pump if it is leaking.

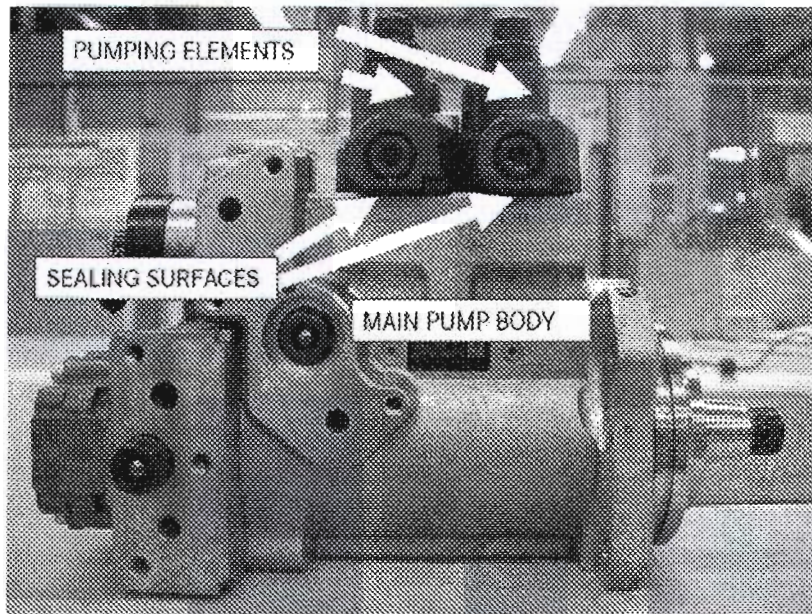


Figure 5 – High Pressure Fuel Pump Inspection Area

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6. **CAREFULLY** inspect the high pressure fuel pump for the presence of **BLUE** or **YELLOW** dots. See Figure 6.
 - a) If **BLUE** or **YELLOW** dots are found, the pumps have already been repaired and no further work is necessary.
 - b) If **OTHER COLOR** dots are found, or **NO** dots are found, continue to step #7.

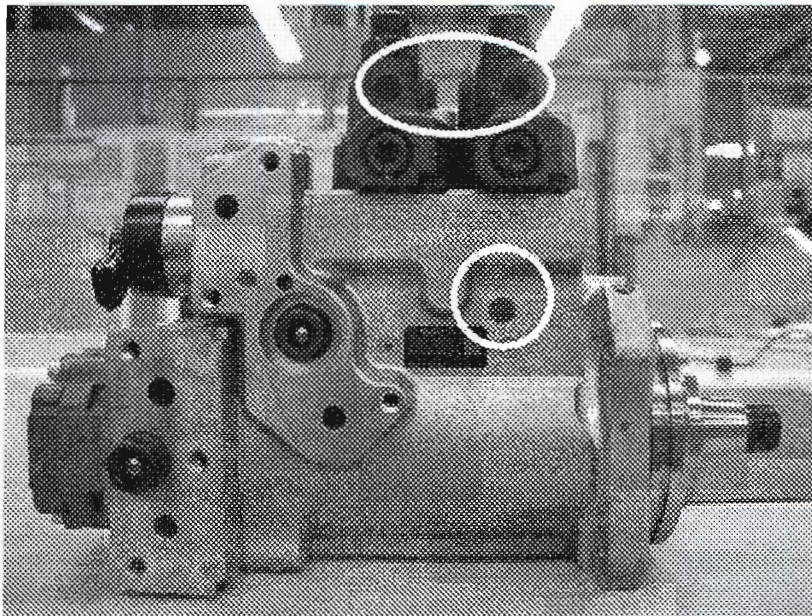
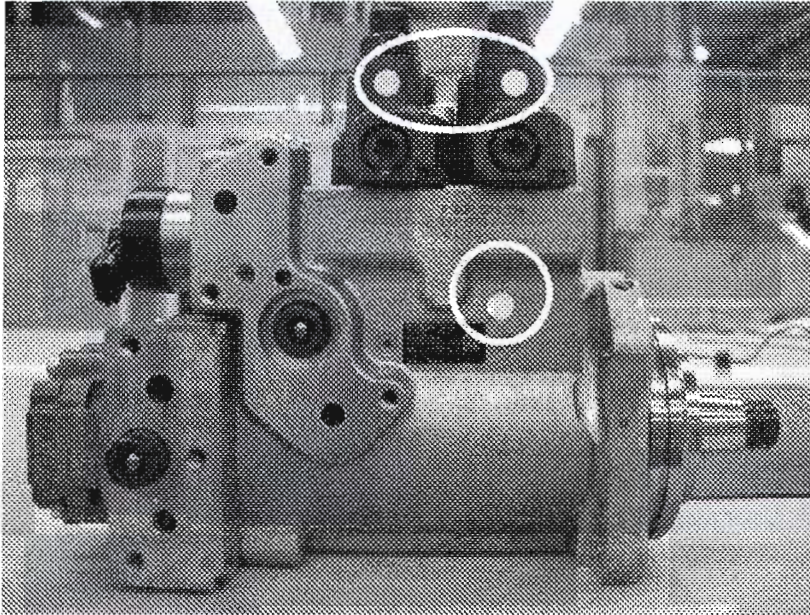


Figure 6 – Blue And Yellow Dot Location

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7. Thoroughly clean the high pressure fuel pump, fuel filter module, and the fuel lines with a high pressure steam cleaner. See Figure 7.

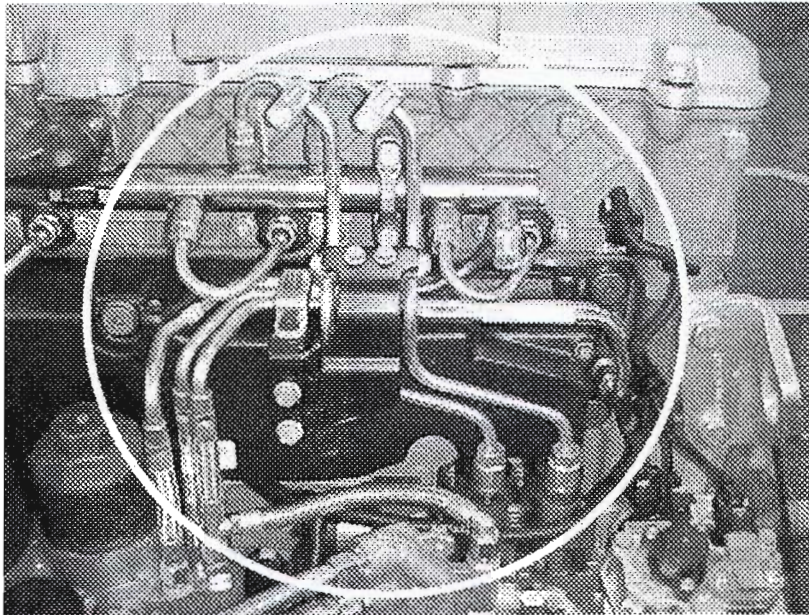


Figure 7 – Steam Clean Area

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NOTICE:

Hold the high pressure fuel pump element fittings with a wrench while removing the fuel lines.

NOTICE:

The engine must be shut down for at least 10 minutes before removing the fuel lines.

8. Remove the two high pressure fuel lines from the fuel pump to the fuel rail. Install the green caps into the rail to keep dirt and debris from entering the fuel system. See Figure 8.

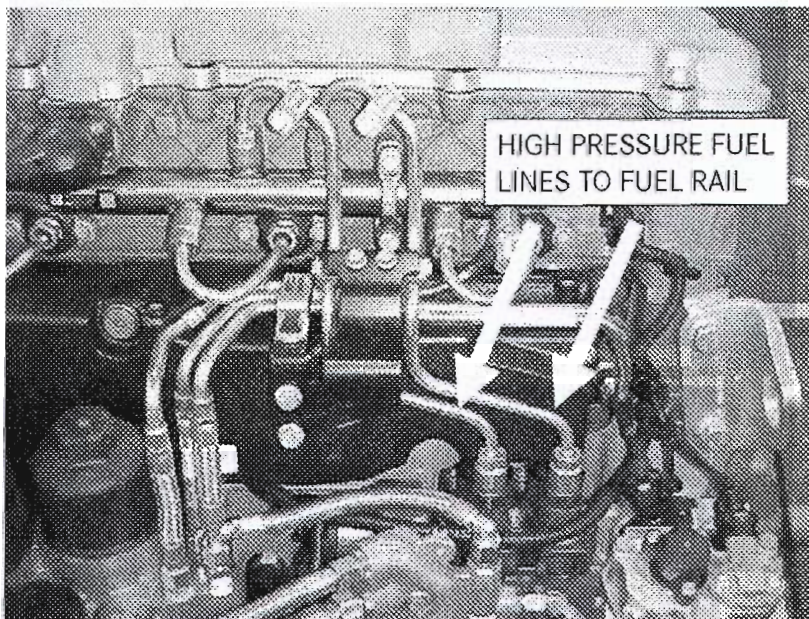


Figure 8 – High Pressure Fuel Lines To Fuel Rail

NOTICE:

Take care not to kink the needle return line when it is removed.

9. Remove the needle return line from the high pressure flange.

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10. Remove the two fittings from the top of the high pressure pumping elements, taking note of their locations. The fittings **MUST** be re-installed into their original locations. See Figure 9.

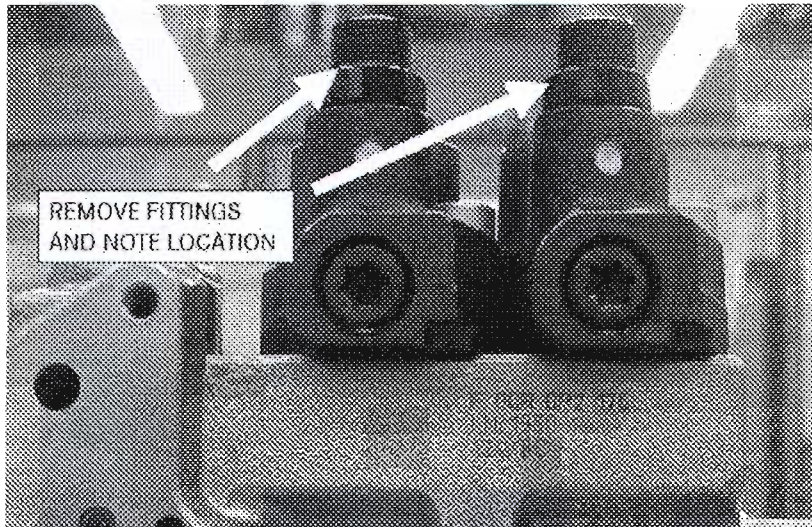


Figure 9 – High Pressure Pumping Element Fittings

11. Install the clear plastic caps included with the repair kit into the pumping element openings to keep foreign debris from entering the fuel system. See Figure 10.

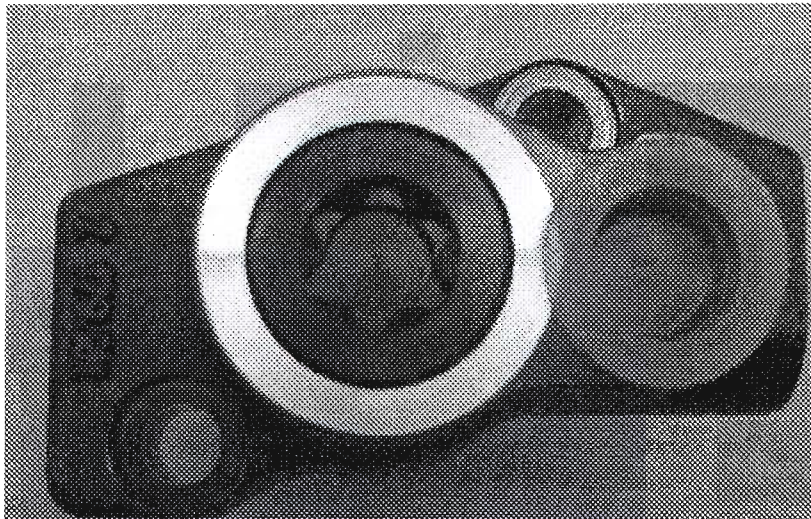


Figure 10 – Clear Plastic Cap Installation

NOTICE:

The bolts **MUST** move during torquing. If the bolts do not move, loosen the bolts and then re-torque.

- Using a torque wrench and T45 Torx bit, tighten the outer two pumping element bolts to 42 N·m (31 lb-ft). See Figure 11.

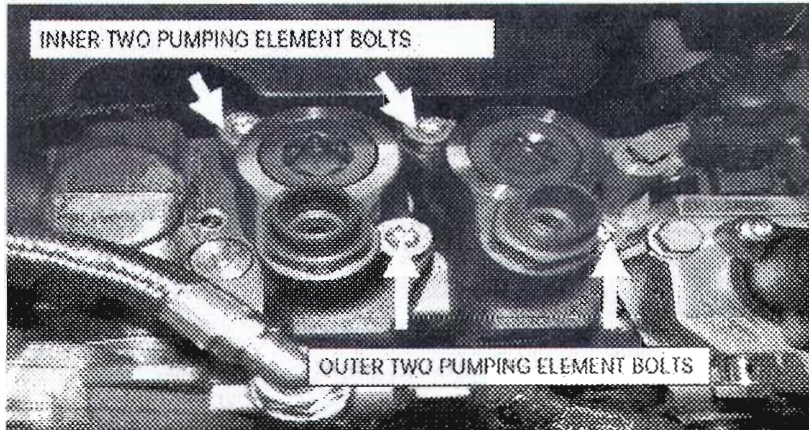


Figure 11 – High Pressure Pumping Element Bolt Locations

- Using the torque adaptor supplied by Bosch, tighten the inner two bolts to 42 N·m (31 lb-ft). See Figures 11 and 12.

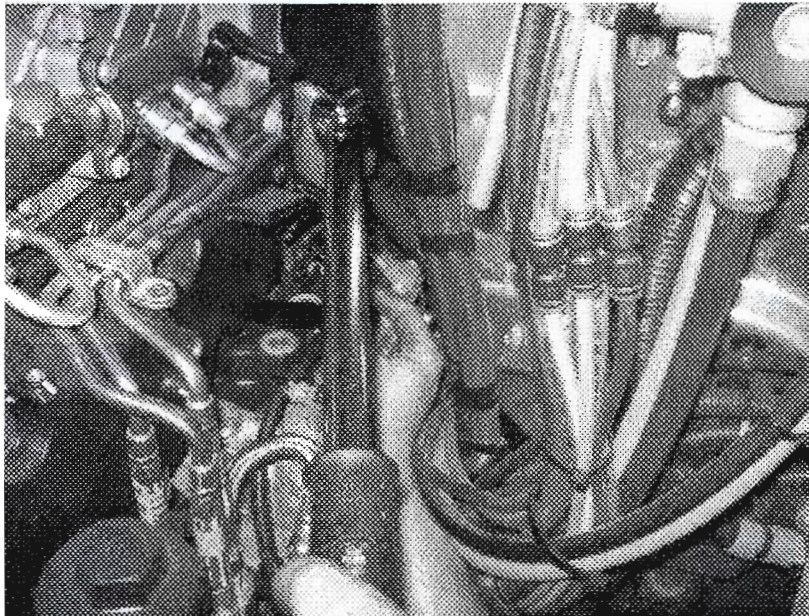


Figure 12 – Torquing Of Two Inner High Pressure Pumping Element Bolts

NOTICE:

Do **NOT** over torque the fittings; damage to the fittings and pumping element housing will occur. Ensure that the fittings go back into the same pumping element location that they came from. Save the protective caps for future use.

14. Remove the protective caps from the pumping element outlet holes and install the fittings and torque to 80 N·m (59 lb·ft).
15. Install the two high pressure fuel lines and torque to 45 N·m (33 lb·ft). Hold the fitting in the pumping element when tightening the fuel line to prevent damage to the pumping element housing.
16. Attach the needle return line and torque to 25 N·m (19 lb·ft).
17. Using the supplied yellow paint pen, place a dot on the side of each pumping element and on the side of the high pressure pump housing. See Figure 13.

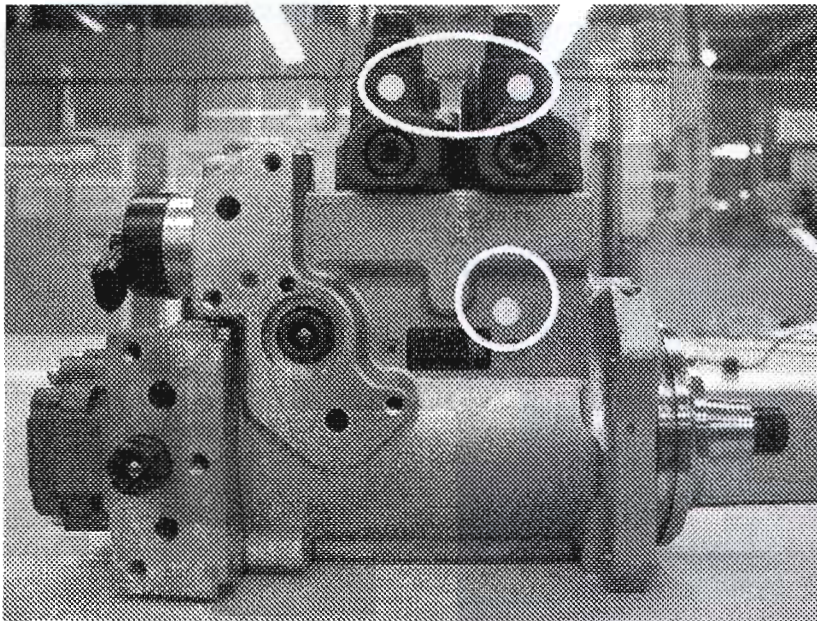


Figure 13 – Yellow Paint Pen Dot Location

18. Connect the batteries.
19. Start the engine and verify the repairs.

Warranty Information

Inspection and Pump Replacement:

Claim Type:	04
Modification:	09C3
Fault Type:	ZZ
Primary Failed Part:	A4720900350
Labor:	
Inspection and Pump Replacement	5.1 Hours
Labor Code:	R09C3
Parts Return:	
<u>ONLY</u> if the Pump has been <u>REPLACED</u> return to Reman	

Inspection ONLY:

Claim Type:	04
Modification:	09C3
Fault Type:	ZZ
Primary Failed Part:	A4720900350
Labor:	
Inspection ONLY	0.3 Hours
Labor Code:	R09C3A
Parts Return:	NONE

Inspection and Bolt Re-Torque:

Claim Type:	04
Modification:	09C3
Fault Type:	ZZ
Primary Failed Part:	A4720900350
Labor:	
Inspection and Bolt Re-Torque	1.3 Hours
Labor Code:	R09C3B
Parts Return:	NONE

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