

Authorized Field Change

NAVISTAR®

AFC 12919**Date:** November 2012**Subject File:** ENGINE**Subject:** 2010 MaxxForce® 15 High-Pressure (HP) Fuel Pump Replacement

Model: PayStar®, ProStar®, and 9900i

Start Date: 19 July 2011 End Date: 11 July 2012

Engine Family: MaxxForce® 15

DESCRIPTION

Some HP fuel pumps for certain MaxxForce® 15 engines can develop a leak during operation rendering the pump to be less effective or inoperative. This AFC describes a repair procedure to replace the HP fuel pump for all vehicles marked with AFC 12919. All removed HP fuel pumps will be called back to Warranty Return under the normal return guidelines.

PARTS INFORMATION

Table 1. Parts Information

Part Number	Description	Quantity
3014489C91	HP Fuel Pump Kit for Vehicles with MaxxForce® 15	1
3535854C1	Bolt, Special 7/16 in x 20 in	1
273896	Nut, Lock 7/16 in UNF 7/16 in NF	1
26272R1	Washer, flat 7/16 in	1
Obtain locally	Wacker® A-442 RTV sealant	1

SERVICE PROCEDURE

 **WARNING:** Park vehicle on hard flat surface, turn the engine off, set the parking brake, and block the wheels to prevent the vehicle from moving in both directions. Failure to do so may result in property damage, personal injury, and / or death.

 **WARNING:** If the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over, potentially resulting in property damage, personal injury, and / or death.

 **WARNING:** Always wear safe eye protection when performing vehicle maintenance. Failure to do so may result in serious eye injury.

 **WARNING:** Keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases. Failure to do so may result in property damage, personal injury, and / or death.

 **WARNING:** Remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last. Failure to do so may result in property damage, personal injury, and / or death.

SERVICE PROCEDURE (CONT.)

Perform the following procedures to remove and replace the HP fuel pump. Refer to the following procedures in the *MaxxForce® 15 Diesel Engine Service Manual* (EGES-510-2).

1. Bring truck into shop and park on a flat surface.
2. Shift transmission to Park or Neutral and set parking brake.
3. Install wheel chocks.
4. Unlatch and open hood.
5. Tilt-away front bumper (if equipped).
6. Remove left front fender assembly and bracket.
7. Remove air compressor coolant tubes. See Air Compressor Coolant Tubes removal procedure in Air Compressor and Power Steering section.
8. Remove air compressor. See Air Compressor removal procedure in Air Compressor and Power Steering section.
9. Remove HP fuel pump. See High-Pressure Fuel Pump removal procedure in Fuel System section.
10. Install new HP fuel pump. See High-Pressure Fuel Pump installation procedure in Fuel System section.

NOTE: Clean and then apply Wacker® A-442 RTV sealant to joining faces of engine front cover and HP fuel pump.

FUEL SYSTEM HAND PRIMER PUMP METHOD

1. Pump the fuel priming pump a minimum of 250 times (approximately 3 minutes) (Figure 2). Continue pumping even after higher pumping force is required.



Figure 1. Fuel Primer Pump.

1. Fuel primer pump

FUEL SYSTEM HAND PRIMER PUMP METHOD (CONT.)

CAUTION: To prevent engine starter damage, if engine fails to start after 20 seconds of cranking, stop cranking engine and wait two minutes to allow the starter motor to cool. After each 20 seconds of cranking, wait an additional 2 minutes before trying to start the engine again.

2. Start engine and check for fuel leaks. If engine does not start, prime again. Let engine run at 1,200 RPM for 2 minutes.
3. Verify that power steering reservoir is full.
 - a. Turn steering wheel to right until it hits axle stop.
 - b. Turn steering wheel to the left until it hits axle stop.
 - c. Refill power steering reservoir.
4. Install left front fender assembly and bracket.
5. Flip up and secure front bumper (if equipped).
6. Close and secure hood.
7. Remove wheel chocks.

FUEL SYSTEM PRIMING TOOL METHOD

Refer to [Fuel System Priming Tool \(12-922-01\) Instructions](#) for proper connection and use of priming tool.

LABOR INFORMATION

Operation number must appear on all claims.

Table 2. Labor Information

Operation No.	Description	Time
A40-12919-1	Replace HP Fuel Pump - ProStar® with MaxxForce® 15	3.6 hr

PARTS RETURN INFORMATION

All dealers - Please expedite the return of the take-off pumps by shipping them as soon as you receive your R5185 form.

US dealers - Attach a copy of the R5185 form to the part and return to the Elmhurst, IL Product Review Center. Send via UPS Ground Collect Billing Account 445033. Do not exceed 125 pounds per package or 200 pounds per shipment. Only the parts for this campaign are to be returned to the Elmhurst Product Review Center at this time. All other parts are to go to the Ft. Wayne PRC.

Navistar, Inc.

Product Review Center

1000 County Line Road Dock 45

Elmhurst, IL. 60126

NOTE - For both U.S. and Canadian warranty returns, to prevent damage to the pump drive train and shaft threads, all caps on the high pressure pump being installed should be saved and installed on the pump being sent back under Warranty Return. The caps may be black, yellow, or transparent, but regardless, it is critical to put the caps back on the returned pump in the same locations as on the pump being installed. In addition, the returned pump should be put back in the plastic bag and box to provide additional protection during shipping.

Canadian dealers - Follow your normal process to return warranty parts to Canadian Central Core. Make sure a R5185 form is attached to each part.

FOR ADDITIONAL PUMP PACKAGING INSTRUCTIONS

NOTE - Follow this link for [additional pump packaging instructions](#).

ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number G-12919.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Policy Manual, Section 7.1.8.

As with all claim submissions, items acquired locally must be submitted in the "Other Charges" tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, barrel of oil, or tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.

To ensure this important improvement is made in a timely manner, all claims for G-12919 activity must be submitted by 9 November 2013 or within the normal warranty period for the vehicle, if after 9 November 2013.

GROUP	NOUN	C	WARR.	TP	PAD

GROUP — Enter number G —

NOUN — Leave blank

C (CAUSE) — Enter either 1, 2, 3. (See below)

- 1. Inspected (No repair required).
- 2. Inspected and repaired.
- 3. Defective part from parts stock.

WARRANTY — (Warranty Code) Enter 40.

TYPE PART — Enter P for type part causing failure.

PAD — Enter 100