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Coding Information

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Title: High Pressure Fuel Pump External Leaks from Weep Hole

Applies To: 2010 Maxxforce 11/13L, All N13, All A26 engines

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

11/11/2021 - Initial Article Release

DESCRIPTION

This document will guide the user through diagnosis of a fuel leak from the high-pressure fuel pump weep hole caused by a restriction in the return fuel line. This will be an external leak originating from the mating surfaces between the high-pressure fuel pump and accessory drive housing.

NOTE:

Any high-pressure pump that is leaking from the weep hole **MUST** be replaced. Once the weep hole starts leaking fuel, the high-pressure pump assembly has been compromised and requires replacement.

SYMPTOM(s)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
N/A	N/A

Customer Observations or Concerns:

- Fuel leak while engine is running
- Fuel leaking from the mating surfaces between the high-pressure fuel pump and accessory drive housing.

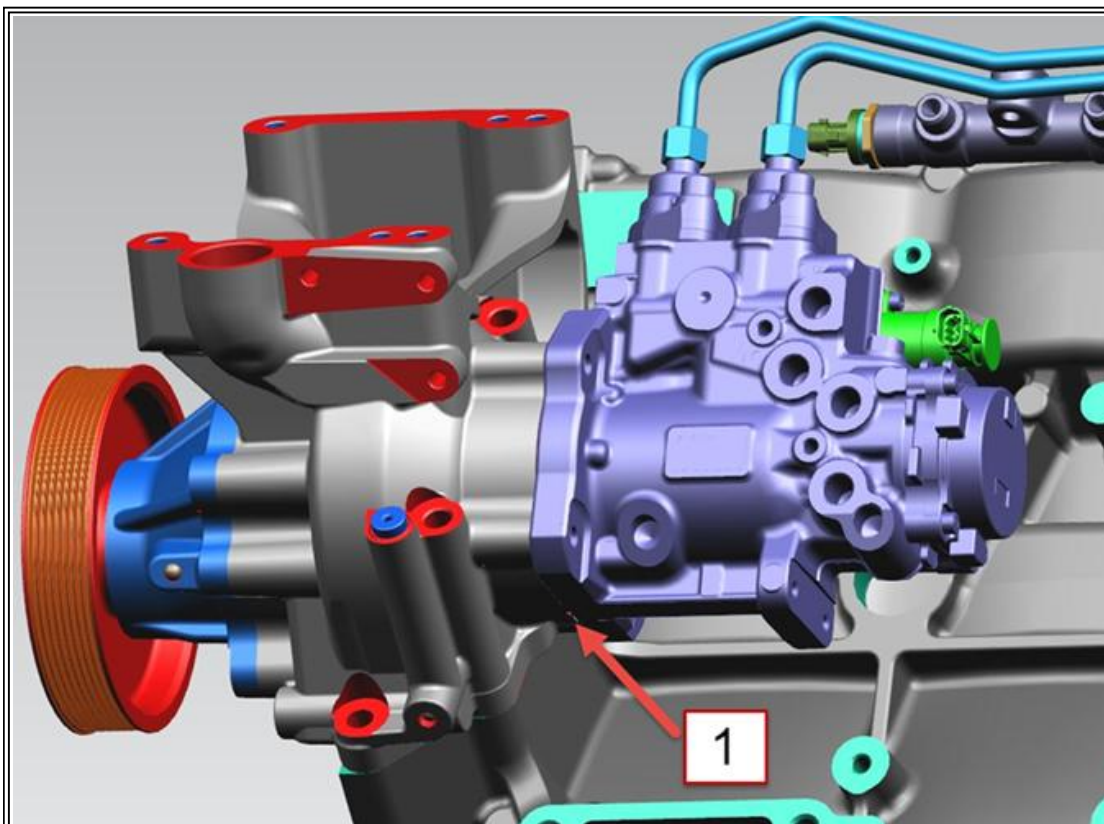


Figure 1: High-pressure fuel pump leak location

Item 1: Weep hole

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Compuchek Fitting	ZTSE4526	For fuel restriction or fuel return pressure test	
Fuel Pressure Gauge	ZTSE4681	For fuel return pressure test	
Fuel Inlet Restriction/Aeration Tool	ZTSE4886	For fuel return pressure test	
Fuel Line Coupler	ZTSE4906		

[Tools Resource Center](#)

SERVICE PARTS INFORMATION

A26 High-pressure fuel pump kit

Kit Description	Part Number	Quantity Required	Notes
PUMP, HIGH PRESSURE FUEL	2517614C92	1	

2010 Maxxforce 11/13L, 2010 N13 (SCR), 2015 N13 fuel pump kit

Kit Description	Part Number	Quantity Required	Notes
PUMP, FUEL, HIGH PRESSURE, REMAN I783 KIT	5010750R93	1	

DIAGNOSTIC STEP(s)

WARNING! To prevent property damage, personal injury, and / or death, park vehicle on a hard, flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.

WARNING! To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

WARNING! To prevent property damage, personal injury, and / or death, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

Step	Action	Decision
1	Check for a restricted fuel return line. Perform the HP Pump Fuel Return Pressure Test. (Refer to the appropriate engine diagnostic manual for test setup and instructions)	Yes. Proceed with replacement of the high-pressure fuel pump. Retest for external leaks once repairs have been completed.
		No. Proceed to step 2

Is the fuel return pressure 13 psi or less?

Step	Action	Decision
2		Yes. Proceed to step 3

	Verify the model of frame mounted fuel/water separator unit is equipped with.	
	Is the unit equipped with a Racor 6600 (0015LPR)?	No. Proceed with the following repair steps: • Repair restriction in fuel return line between high-pressure fuel pump and fuel tank. • Replace the high-pressure fuel pump. Retest for external leaks once repairs have been completed.

Step	Action	Decision
3	Verify correct orientation of the return line connections at the fuel/water separator. (Figure 2)	Yes. Proceed with the following repair steps: • Repair restriction in fuel return line between high-pressure fuel pump and fuel tank. • Replace the high-pressure fuel pump. Retest for external leaks once repairs have been completed.
	Are the fuel return lines connected to the correct locations on the fuel/water separator?	No. Correct the connections then proceed to step 4

Step	Action	Decision
4	Perform the HP Pump Fuel Return Pressure Test.	Yes. Proceed with high-pressure fuel pump replacement. Retest for external leaks once repairs have been completed.
	Is the fuel return pressure below 13psi?	No. Proceed with the following repair steps: • Repair restriction in fuel return line between high-pressure fuel pump and fuel tank. • Replace the high-pressure fuel pump. Retest for external leaks once repairs have been completed.

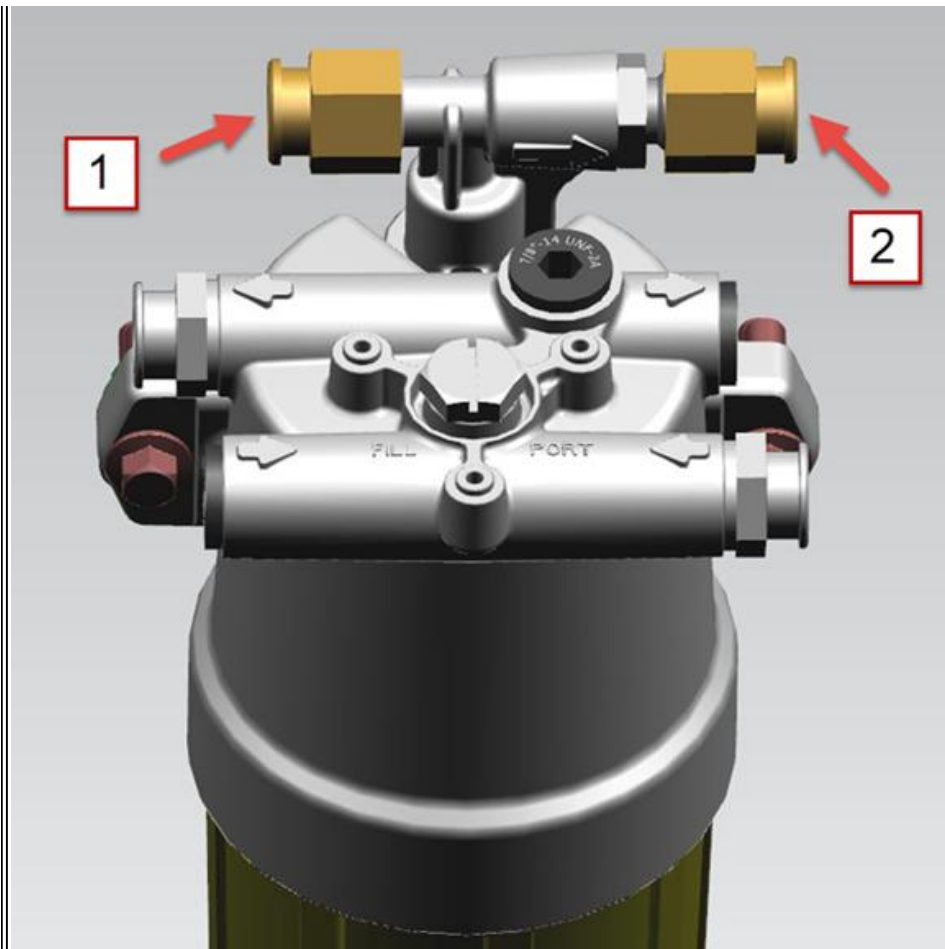


Figure 2: Racor 6600 (0015LPR)

Item 1: Return line from HP pump outlet
Item 2: Return line to fuel tank

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

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