



Technical Service Bulletin

Technical Service Bulletin: TSB130044	Released Date: 01-Apr-2019
New Fuel Pump Gear Pump with Revised Fuel Line Locations	

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Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- ISX15 CM2250 SN
- ISX15 CM2350 X101
- QSX15 CM2250
- QSX15 CM2250 ECF
- QSX15 CM2250 X115
- QSX15 CM2350 X105
- QSX15 CM2350 X106
- QSX15 CM2350 X118
- X15 CM2350 X114B

Description of Change

This document releases new and remanufactured fuel pump gear pumps with revised fuel lines.

Top Port Fuel Pump Gear Pump with Revised Fuel Line Locations:

- Engines were released with the fuel lines located on the bottom of the fuel pump gear pump.
- A new design fuel pump gear pump has been released with the fuel line location changed to the top of the fuel pump gear pump. See Figure 1 and 2 below.

- Upgraded fuel lines were released accordingly.

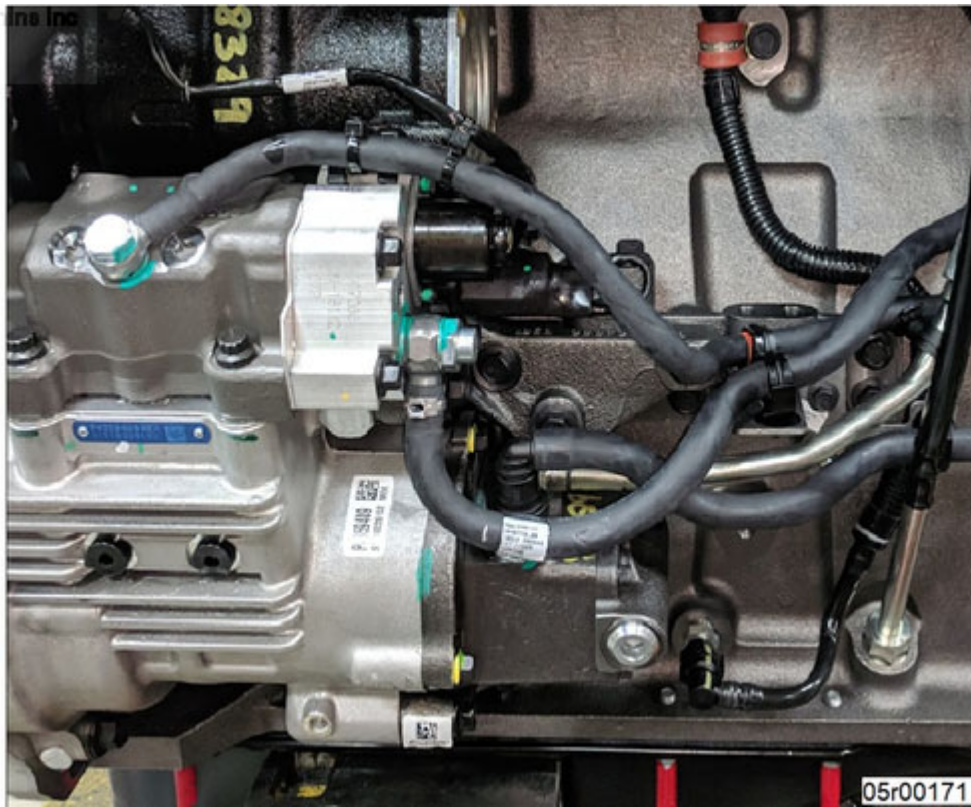
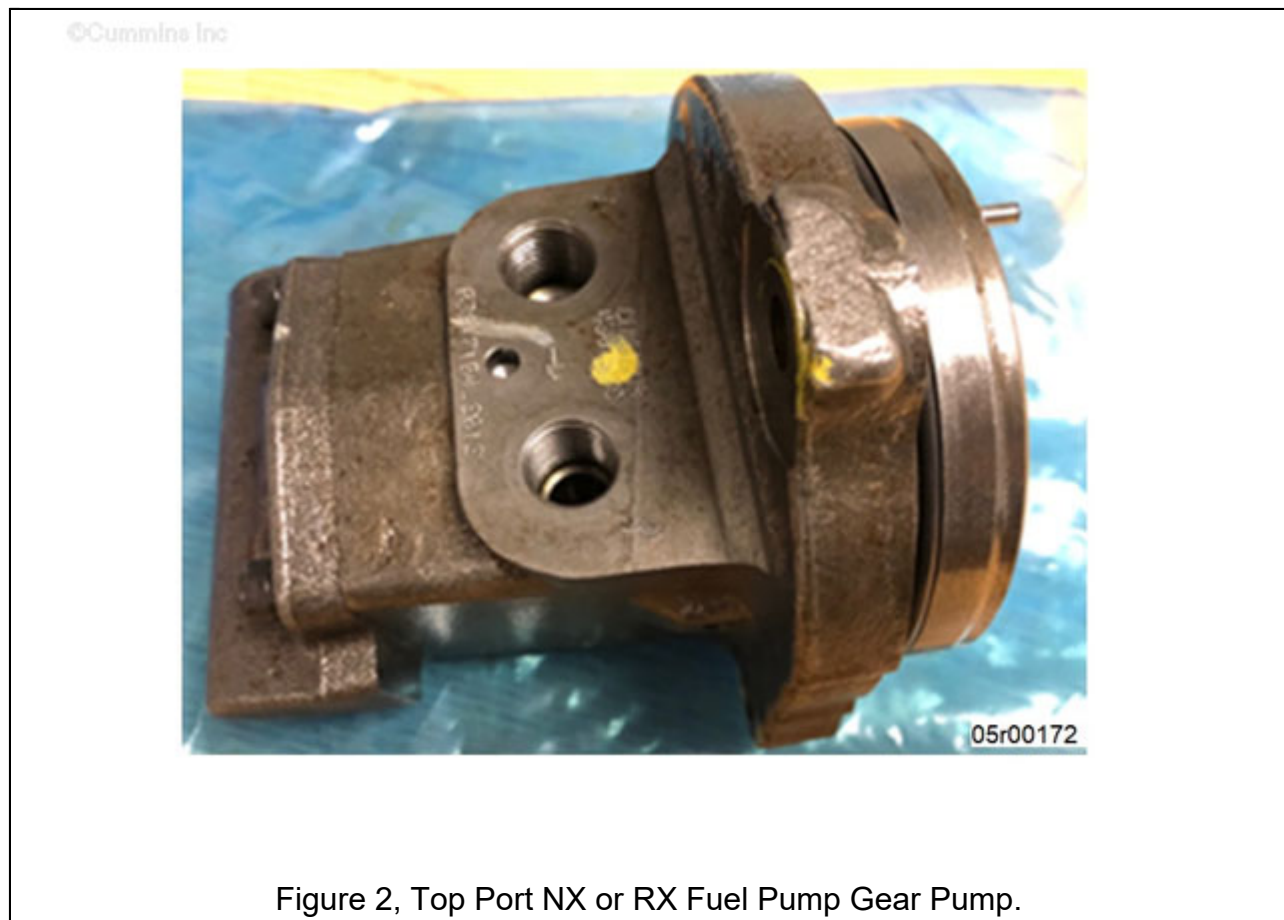


Figure 1, Top Port Pump Gear Pump with Revised Fuel Line Locations.

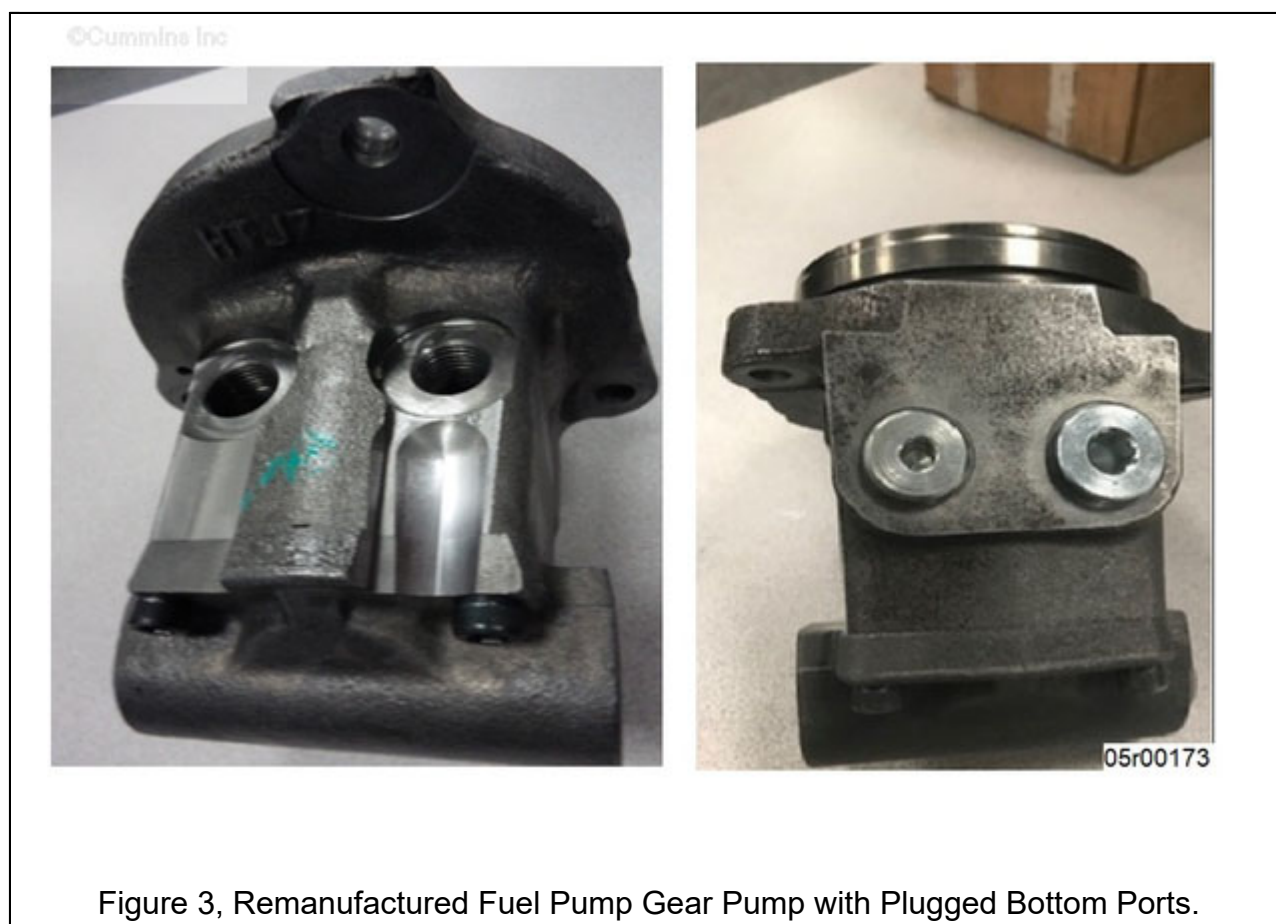


⚠ CAUTION ⚠

Do not relocate O-ring threaded plugs to top of fuel pump gear pump. Removal of O-ring threaded plugs from fuel pump gear pump assembly will result in external fuel leaks.

Remanufactured Fuel Pump Gear Pump:

- Fuel pump gear pumps with original bottom fuel line ports have been remanufactured to introduce an upper fitting location; required for top fuel supply tube plumbing. The bottom ports on the fuel pump gear pump have been plugged. See Figure 3 for visual representation.



For engines built prior to 02 February 2011 that were built with the three-cylinder, two piston high-pressure fuel pump:

- Fuel pump has been obsoleted in favor of a two-cylinder high-pressure fuel pump.
- Reference TSB110064 and Installation Instructions, Bulletin 4907962, for information on replacing the three-cylinder, two piston fuel pump with a two cylinder fuel pump.

For engines built after 02 February 2011, or engines that have already had TSB110064 performed:

- Fuel pump gear pump and fuel lines will need to be replaced with revised components. Reference Table 1 for parts ordering details.
- Release date for the revised fuel pump gear pump and fuel lines for production is 12 December 2012.
- Release date for the revised fuel pump gear pump and fuel lines for service is 04 February 2013.
- Engine serial number (ESN) first is 79629752.

Table 1: Required Parts for Installation of Fuel Pump Gear Pump With Electric Priming Pump			
Part Description	Old Part Number	New Part Number	Quantity
Fuel Pump Gear Pump With O-ring Seal	2897371	4307482	1
Fuel Line to Fuel Pump Gear Pump	3687027	3688089	1
Fuel Line Fuel Pump Gear Pump to Engine Control Module (ECM) Cooling Plate	4298537	3688398	1
Sealing Washer	3963988	3963988	4
Sealing Washer	3963991	3963991	4

Table 2: Required Parts for Installation of Fuel Pump Gear Pump Without Electric Priming Pump			
Part Description	Old Part Number	New Part Number	Quantity
Fuel Pump Gear Pump With O-ring Seal	2897371	4307482	1
Fuel Line to Fuel Pump Gear Pump	3687027	3688089	1
Fuel Line Fuel Pump Gear Pump to Mounting Bracket	3687028	3688112	1
Sealing Washer	3963988	3963988	4
Sealing Washer	3963991	3963991	4

See Table 3 for part numbers on units that do **not** use an engine control module (ECM) cooling plate.

Table 3: Required Parts for Installation of Fuel Pump Gear Pump with Electric Priming Pump on ISX/QSX CM2350 Without ECM Cooling Plate

Part Description	Old Part Number	New Part Number	Quantity
Fuel Pump Gear Pump With O-ring Seal	2897371	4307482	1
Fuel Line From Gear Pump to Filter	3691498	5575157	1
Fuel Line From Filter to High Pressure Pump	5440773	5440773	1
Sealing Washer	3963988	3963988	4
Sealing Washer	3963991	3963991	4

Document History

Date	Details
2013-2-19	Module Created
2013-3-4	To avoid confusion in the field.
2018-9-4	Updated Product Affected section. Added Figures 2 and 3.
2019-2-22	Updated for new machined gear pump changes.

Last Modified: 01-Apr-2019
