

Installation Instruction Number	Date	
4907748	07-OCT-2008	



Remote Mount Lift Pump Kit

General Information

The remote mount lift pump kit, Part Number 4955799, is for use on ISB CM850 engines. This kit relocates the fuel lift pump, located on the engine, behind the ECM cooling plate, to a remote location off the engine. Removing the lift pump and mounting it remotely reduces the amount of heat and vibration to which the lift pump is subjected.

This Installation Instruction describes the kit contents and contains general instructions for remote mounting the lift pump.

Selecting Mounting Location for Lift Pump:

It is very important to find a suitable location to mount the lift pump: The following should be taken into consideration when selecting a suitable location.

- 1. The lift pump should be mounted on the body or chassis. It is **not** recommended to mount the pump to the vehicle frame. Most OEMs do **not** allow the vehicle frame to be modified in any way.
- 2. The lift pump should **not** be mounted inside a fender well or anywhere it could come in contact with water or road debris.
- 3. The lift pump should **not** be mounted near the vehicle batteries or other electrical components.
- 4. The lift pump should **not** be mounted in a location where fuel lines **must** be routed to the opposite side of the engine, or near hot or moving parts, such as exhaust or suspension components.

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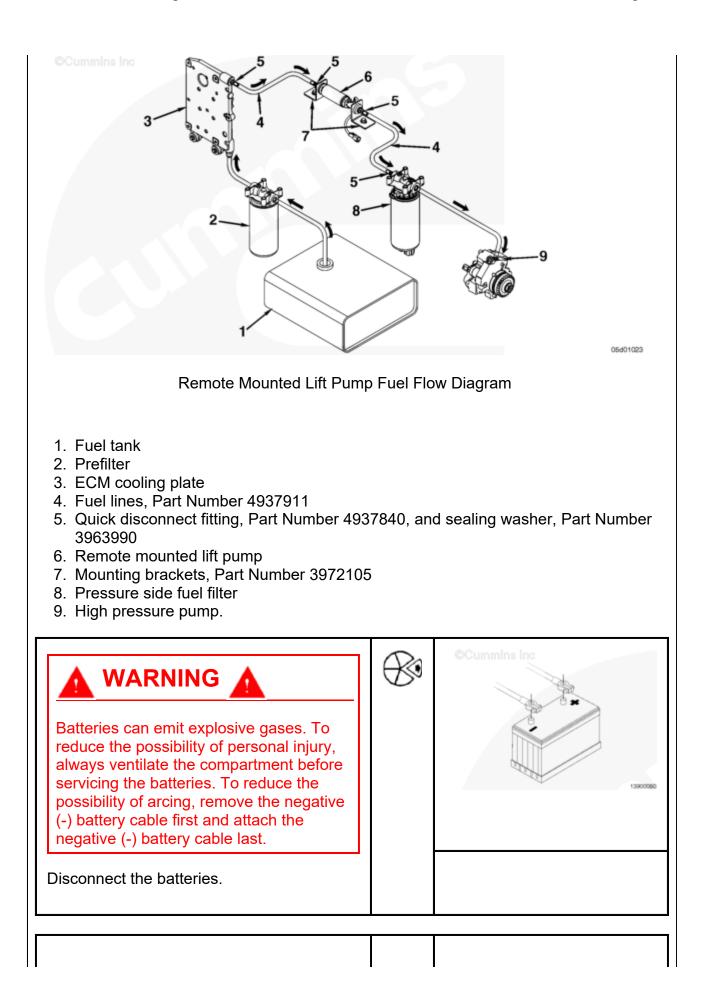
OR

- 5. The lift pump should **not** be mounted any higher than the cylinder block deck, so the lift pump is **not** the highest point of the fuel system.
- 6. The lift pump should **not** be mounted any lower than the bottom of the frame rail, so the lift pump and fuel lines are **not** subjected to possible damage from road debris.
- 7. The lift pump should **not** be mounted more than 183 cm [6 ft] from the ECM cooling plate outlet and pressure side fuel filter inlet.
- 8. The lift pump should **not** be mounted in a location that is **not** rigid enough to sufficiently support the lift pump and brackets.
- 9. The lift pump should **not** be mounted in a location where the mounting brackets or hardware interfere with any other wiring or components.

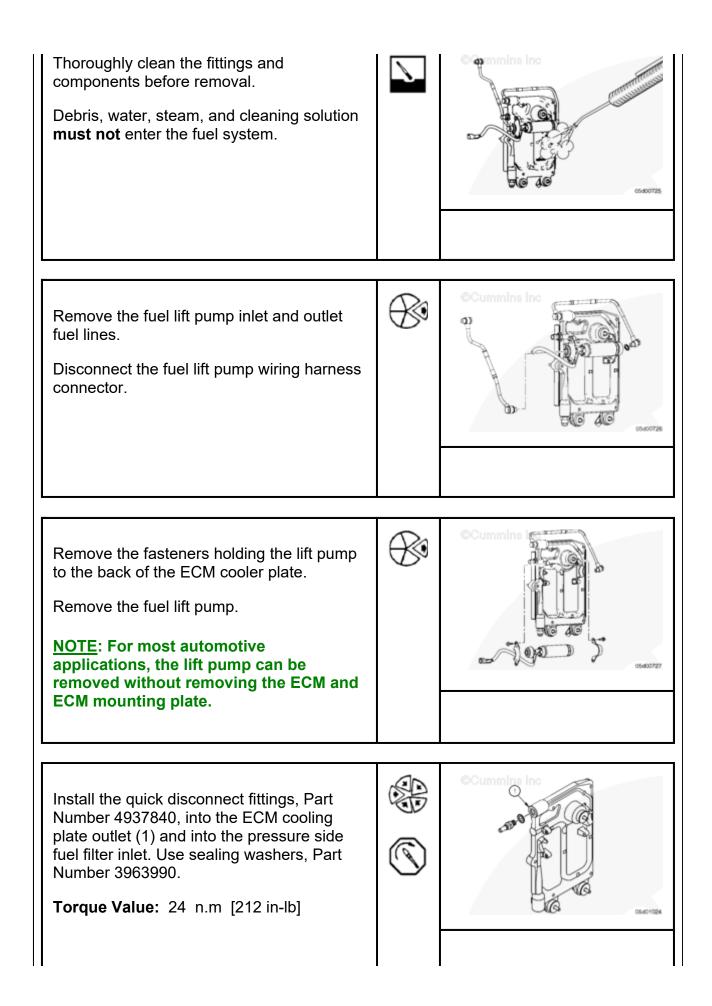
Remote Mounted Lift Pump Kit, Part Number 4955799 - Parts List				
Part Number	Quantity	Description		
3968188	1	12-volt Lift Pump		
4937911	2	183 cm [6 ft] Fuel Line (Quick Disconnect)		
3972105	2 Lift Pump Mounting Bracket			
4937840	4	Quick Disconnect Fitting		
3963990	4	Sealing Washer		
4995590	1	183 cm [6 ft] Extension Harness		
Additional Parts Needed for Mounting Lift Pump Brackets - not Included in Kit				
Quantity	Descriptio	Description		
2	5/16" x 1"	5/16" x 1" Bolt		
2	5/16" Lock	5/16" Lock Nut		

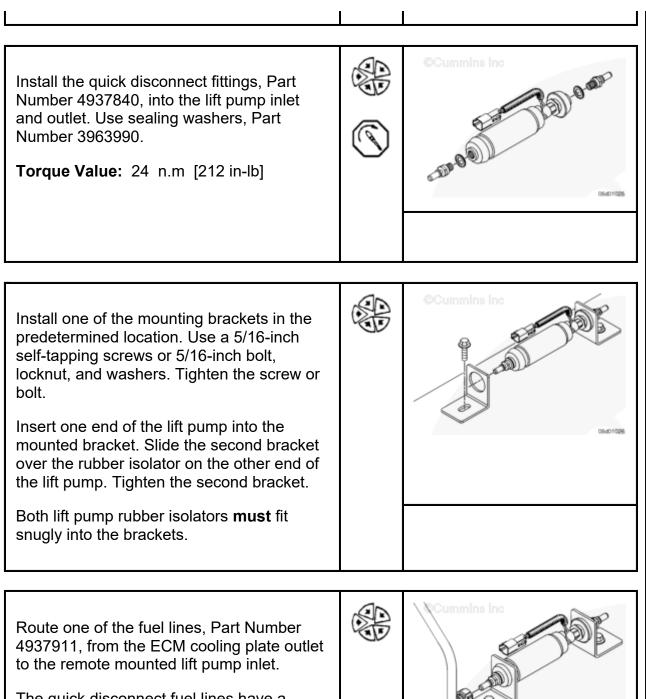
5/16" Flat Washer

5/16" x 3/4" Self Tapping Screw



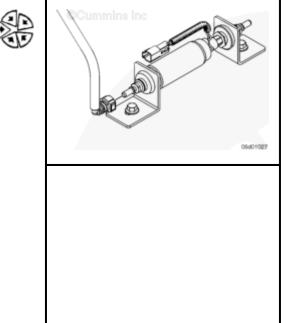
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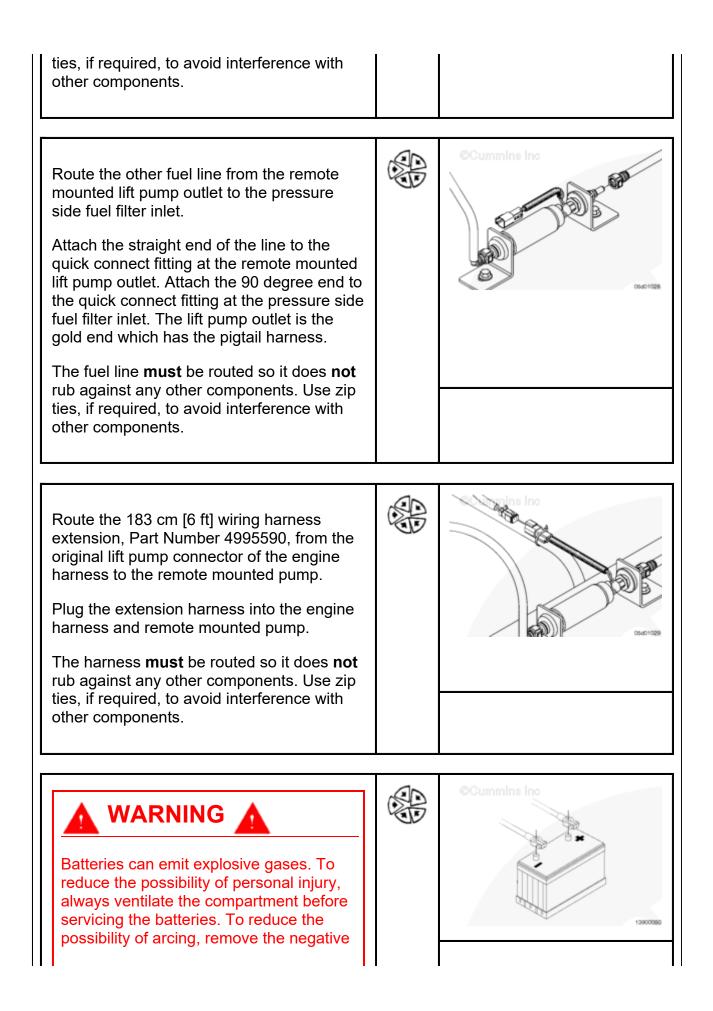




The quick disconnect fuel lines have a straight end and a 90 degree end. Attach the straight end to the quick connect fitting at the ECM cooling plate outlet. Attach the 90 degree end to the quick connect fitting at the remote mounted lift pump inlet. The lift pump inlet is the end opposite the end with the pigtail harness.

The fuel line **must** be routed so it does **not** rub against any other components. Use zip





 (-) battery cable first and attach the negative (-) battery cable last. Connect the batteries. It is not necessary to vent air from the high-pressure fuel system before starting the engine. Cranking the engine will prime the fuel system. Allow the lift pump to run by turning the keyswitch ON and waiting 30 seconds before starting. 	
Operate the engine and check for leaks.	

Last Modified: 02-Dec-2010

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