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Service Information Bulletin

SUBJECT	DATE
Low Pressure Fuel Pump	September 2016

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0082	EPA07/10/GHG14	Removal of the Low Pressure Fuel Pump - Two-Filter System	Procedures have been updated.
		Installation of the Low Pressure Fuel Pump - Two-Filter System	
DDC-SVC-MAN-0190	DD Platform - GHG17	Removal of the Low Pressure Fuel Pump - Two-Filter System	
		Installation of the Low Pressure Fuel Pump - Two-Filter System	



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2 Removal of the Low Pressure Fuel Pump - Two-Filter System

Remove as follows:



WARNING: PERSONAL INJURY

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.



WARNING: PERSONAL INJURY

To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

1. Shut off the engine, apply the parking brake, chock the wheels, and perform any other applicable safety steps.



CAUTION: ELECTRICAL SHOCK

To avoid injury from electrical shock, use care when connecting battery cables. The magnetic switch studs are at battery voltage.

2. Disconnect the batteries.
3. Open the hood.
4. If needed, remove the bumper. Refer to OEM procedures.
5. If needed, remove the splash shield. Refer to OEM procedures.



WARNING: FIRE HAZARD

Do not power wash or steam clean the engine bay in the area of vehicle electrical components, unless specified by vehicle manuals or service literature. Power washing/steam cleaning can permanently damage these components, which could result in fire, personal injury, or property damage.

6. Steam clean engine and housing on high pressure fuel pump.
7. Drain the cooling system. Refer to section "Cooling System Drain Procedure".
8. For a vehicle with a short (less than 120 inches) Bumper-to-Back-of-Cab (BBC), remove the cold boost pipe. Refer to section "Removal of the Composite Cold Boost Pipe (Charge Air Pipe)".
9. For a vehicle with a short (less than 120 inches) Bumper-to-Back-of-Cab (BBC), remove the fuel filter module. Refer to section "Removal of the Fuel Filter Module – Two-Filter System".
10. Disconnect the low pressure fuel lines from the high pressure flange. Refer to section "Removal of the Low Pressure Fuel Pump Lines - Two-Filter System".
11. Disconnect the quantity control valve electrical connector.
12. Disconnect the plastic clip from the high pressure fuel pump mounting bracket.
13. Remove the coolant line from the cylinder block and air compressor.
14. Remove the bolts attaching the low pressure fuel pump to the high pressure fuel pump.
15. Remove and discard the low pressure pump gasket(s) from the high-pressure fuel pump.
16. Clean the housing around the high pressure fuel pump.
17. Inspect the low pressure fuel pump, drive key, drive coupler and driven key. Refer to section "Inspection of the Low Pressure Fuel Pump - Two-Filter System".

3 Installation of the Low Pressure Fuel Pump - Two-Filter System

Install as follows:

1. Install a new low pressure fuel pump gasket(s) on to the high pressure fuel pump.
2. Install the drive coupler on to the drive key.
3. Install the low pressure fuel pump on to high pressure pump. Torque bolts to 8 N·m (72 lb·in).
4. Connect the quantity control valve electrical connector.
5. Install the air compressor inlet coolant line to the side of the cylinder block.
6. If removed, install the fuel filter module. Refer to section "Installation of the Fuel Filter Module – Two Filter System".
7. If removed, install the cold boost pipe. Refer to section "Installation of the Composite Cold Boost Pipe (Charge Air Pipe)".



CAUTION: ELECTRICAL SHOCK

To avoid injury from electrical shock, use care when connecting battery cables. The magnetic switch studs are at battery voltage.

8. Connect the batteries.
9. Fill the cooling system. Refer to section "Cooling System Fill Procedure".
10. Prime the fuel system.
Refer to section "Priming the Fuel System - KM63 GEN2 - Two-Filter System".
Refer to section "Priming the Fuel System - KM59 GEN1 - Two-Filter System".
11. If removed, install the splash shield. Refer to OEM procedures.
12. If removed, install the bumper. Refer to OEM procedures.
13. Close the hood.

4 Removal of the Low Pressure Fuel Pump - Two-Filter System

Remove as follows:



WARNING: PERSONAL INJURY

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.



WARNING: PERSONAL INJURY

To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

1. Shut off the engine, apply the parking brake, chock the wheels, and perform any other applicable safety steps.



CAUTION: ELECTRICAL SHOCK

To avoid injury from electrical shock, use care when connecting battery cables. The magnetic switch studs are at battery voltage.

2. Disconnect the batteries.
3. Open the hood.
4. If needed, remove the bumper. Refer to OEM procedures.
5. If needed, remove the splash shield. Refer to OEM procedures.



WARNING: FIRE HAZARD

Do not power wash or steam clean the engine bay in the area of vehicle electrical components, unless specified by vehicle manuals or service literature. Power washing/steam cleaning can permanently damage these components, which could result in fire, personal injury, or property damage.

6. Steam clean engine and housing on high pressure fuel pump.
7. Drain the cooling system. Refer to section "Cooling System Drain Procedure".
8. For a vehicle with a short (less than 120 inches) Bumper-to-Back-of-Cab (BBC), remove the cold boost pipe. Refer to section "Removal of the Composite Cold Boost Pipe (Charge Air Pipe)".
9. For a vehicle with a short (less than 120 inches) Bumper-to-Back-of-Cab (BBC), remove the fuel filter module. Refer to section "Removal of the Fuel Filter Module - Two-Filter System".
10. Disconnect the low pressure fuel lines from the high pressure flange. Refer to section "Removal of the Low Pressure Fuel Pump - Two-Filter System".
11. Disconnect the quantity control valve electrical harness connector.
12. Disconnect the plastic clip from the high pressure fuel pump mounting bracket.
13. Remove the coolant line from the cylinder block and air compressor.
14. Remove the bolts attaching the low pressure fuel pump to the high pressure fuel pump.
15. Remove and discard the low pressure pump gasket(s) from the high-pressure fuel pump.
16. Clean the housing around the high pressure fuel pump.
17. Inspect the low pressure fuel pump, drive key, drive coupler and driven key. Refer to section "Inspection of the Low Pressure Fuel Pump - Two-Filter System".

5 Installation of the Low Pressure Fuel Pump - Two-Filter System

Install as follows:

1. Install a new low pressure fuel pump gasket(s) on to the high pressure fuel pump.
2. Install the drive coupler on to the drive key.
3. Install the low pressure fuel pump on to high pressure pump. Torque bolts to 8 N·m (72 lb·in).
4. Connect the quantity control valve electrical connector.
5. Install the air compressor inlet coolant line to the side of the cylinder block.
6. If removed, install the fuel filter module. Refer to section "Installation of the Fuel Filter Module - Two-Filter System".
7. If removed, install the cold boost pipe. Refer to section "Installation of the Composite Cold Boost Pipe (Charge Air Pipe)".



CAUTION: ELECTRICAL SHOCK

To avoid injury from electrical shock, use care when connecting battery cables. The magnetic switch studs are at battery voltage.

8. Connect the batteries.
9. Fill the cooling system. Refer to section "Cooling System Fill Procedure".
10. Prime the fuel system.
Refer to section "Priming the Fuel System - KM63 GEN2 - Two-Filter System".
Refer to section "Priming the Fuel System - KM59 GEN1 - Two-Filter System".
11. If removed, install the splash shield. Refer to OEM procedures.
12. If removed, install the bumper. Refer to OEM procedures.
13. Close the hood.