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Special Instruction

Procedure to Install the High Pressure Fuel Pump on the CT660 On Highway Truck {7000}

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Procedure to Install the High Pressure Fuel Pump on the CT660 On Highway Truck{7000}

SMCS - 7000

On Highway Truck:
CT660 (S/N: TKL1-308)

Introduction

This Special Instruction provides the necessary information in order to install the high-pressure fuel pump on CT660 On Highway Truck.

Read the entire Special Instruction before order any parts or perform the following procedure. Do not perform any procedure in this publication or order any parts until you understand the information that is contained in this publication.



WARNING

Do not operate or work on this machine unless you have read and understand the instructions and warnings in the Operation and Maintenance Manuals. Failure to follow the instructions or heed the warnings could result in injury or death. Contact your Cat dealer for replacement manuals. Proper care is your responsibility.


WARNING

Before service work is begun, park the machine on a hard level surface. Block the wheels of the machine so unexpected movement will not occur. Unexpected movement of the machine can cause personal injury or death.

NOTICE

Remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

NOTICE

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

Required Parts

Table 1

Require Parts		
QTY	Part Number	Description
1	399-0149	Fuel Pump Kit
1	358-1080	Special Bolt
1	358-0265	Locknut
1	358-0258	Hardened Washer
1		Wacker® A-442 RTV sealant or equivalent

Rework Procedure

Perform the following procedures to remove and replace the HP fuel pump. Refer to the following procedures in the Service Manual, UENR0990.

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. Remove left front fender assembly and bracket.
5. Remove air compressor coolant tubes. See Air Compressor Coolant Tubes removal procedure in Air Compressor and Power Steering section. Refer to Service Manual, UENR0990.
6. Remove the air compressor. See Air Compressor removal procedure in Air Compressor and Power Steering section.
7. Remove HP fuel pump. See High-Pressure Fuel Pump removal procedure in Fuel System section. Refer to Service Manual, UENR0990.
8. Install new HP fuel pump. See High-Pressure Fuel Pump installation procedure in Fuel System section. Refer to Service Manual, UENR0990.

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

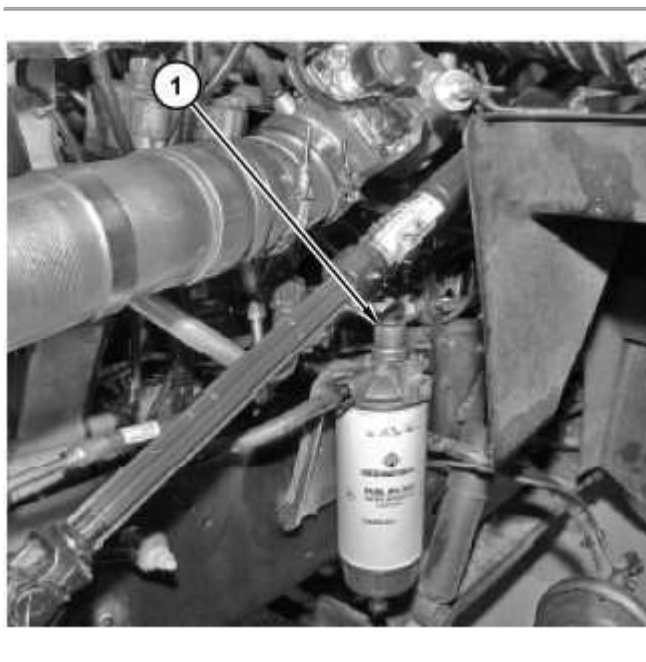


Illustration 1

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(1) Fuel primer pump

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

NOTICE

To prevent engine starter damage, if the engine fails to start after 20 seconds of cranking, stop cranking engine and wait 2 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 the steering wheel hits axle stop.
 - b. Turn steering wheel to the left until the steering wheel hits axle stop.
 - c. Refill power steering reservoir.
4. Install left front fender assembly and bracket.
5. Close and secure hood.
6. Remove wheel chocks.

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