



Service Repair Manual

Models

297D XHP MULTI TERRAIN
LOADER

Product: MULTI TERRAIN LOADER

Model: 297D XHP MULTI TERRAIN LOADER HP7

Configuration: 297D/297D XHP Multi Terrain Loader HP700001-UP (MACHINE) POWERED BY C3.8 Engine

Disassembly and Assembly

C3.8 Engines for Caterpillar Built Machines

Media Number -UENR0129-08

Publication Date -01/09/2015

Date Updated -19/05/2016

i06611151

Fuel Injection Pump - Remove

SMCS - 1251-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	278-4138	Fuel System Protection Gp ⁽¹⁾	1

⁽¹⁾ This tool can only be used one time.



WARNING

Do not open the high pressure fuel system without allowing the fuel system to purge. After the engine has shut down, allow the fuel system to purge for ten minutes. This operating fuel system contains high pressure. Exposure to high pressure fuel can result in personal injury.

Note: Use Caterpillar Electronic Technician (ET) to verify that the fuel system pressure is at zero before opening the fuel system.

Note: Use Tooling (A) after any fuel line has been disconnected.

1. Ensure that number four piston is at the top center position on the compression stroke. Refer to Systems Operation, Testing and Adjusting, "Finding Top Center Position for No. 4 Piston".



Illustration 1

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2. Remove bolts (1) to remove cover (2) and the gasket.

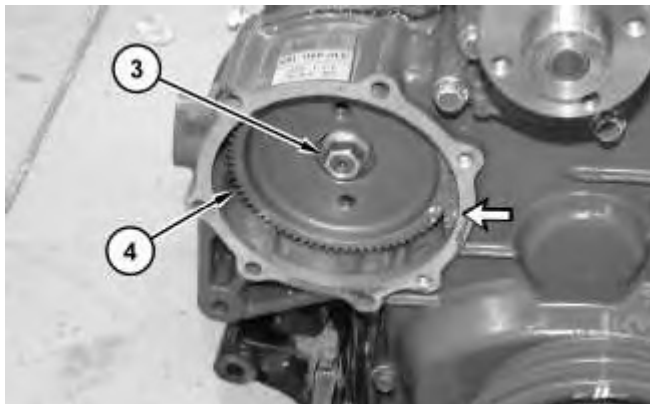


Illustration 2

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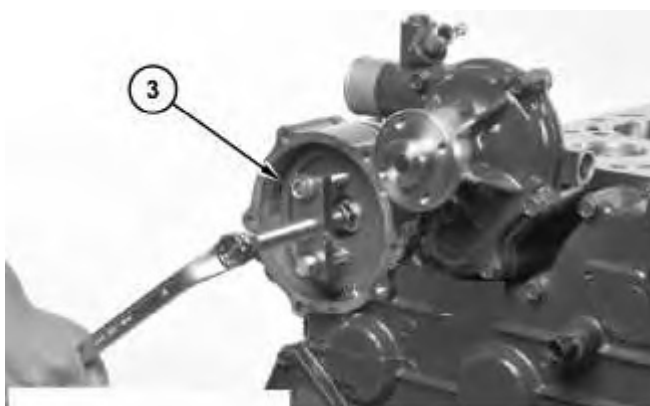


Illustration 3

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3. Mark the alignment of the pump gear and the idler gear for installation purposes. Remove nut (3). Use a suitable gear puller to remove gear (4).

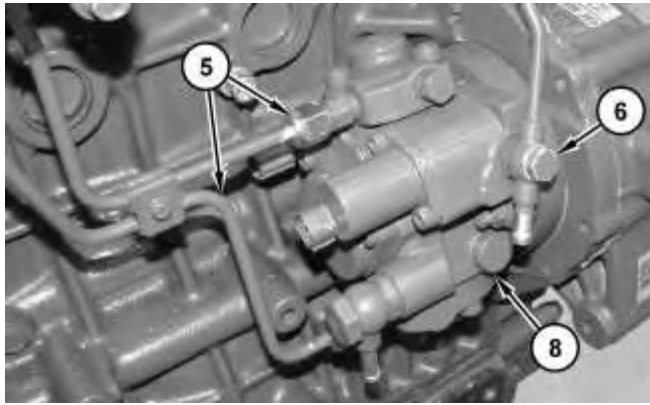


Illustration 4

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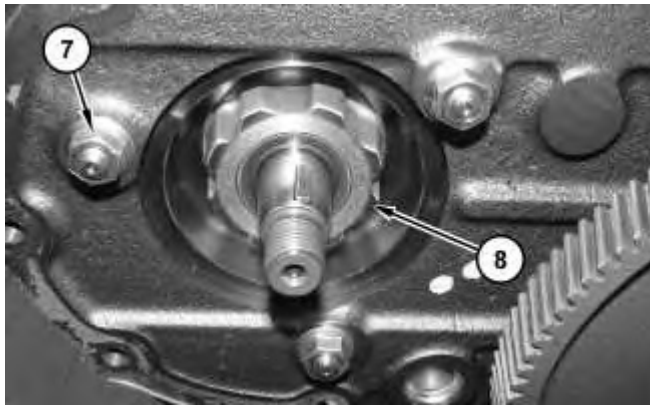


Illustration 5

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4. Disconnect tube assemblies (5) and tube assembly (6).
5. Remove nuts (7) to remove fuel injection pump (8).

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Fuel Injection Pump - Install

SMCS - 1251-012

Installation Procedure

1. Ensure that number four piston is at the top center position on the compression stroke. Refer to Systems Operation, Testing and Adjusting, "Finding Top Center Position for No. 4 Piston".



Illustration 1

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