



# Service Repair Manual

## **Models**

# 299D COMPACT TRACK LOADER

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Product: COMPACT TRACK LOADER

Model: 299D COMPACT TRACK LOADER GTC

Configuration: 299D Compact Track Loader GTC00001-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 <sup>(1)</sup>	1

<sup>(1)</sup> 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.

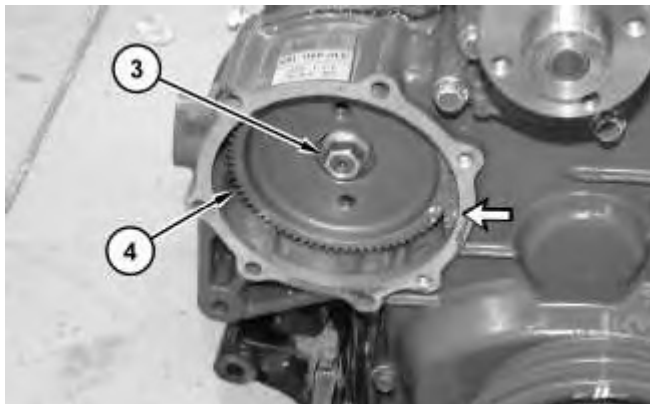


Illustration 2

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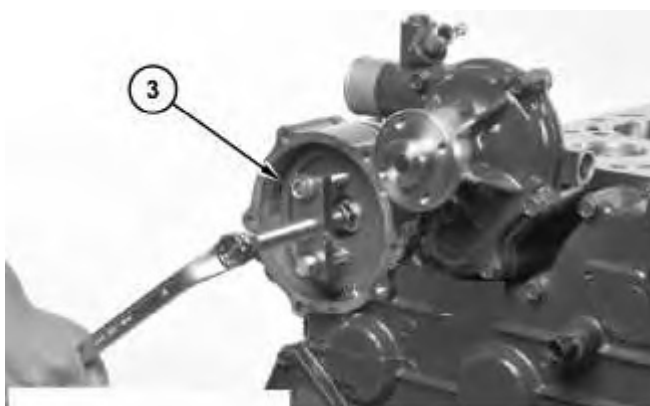
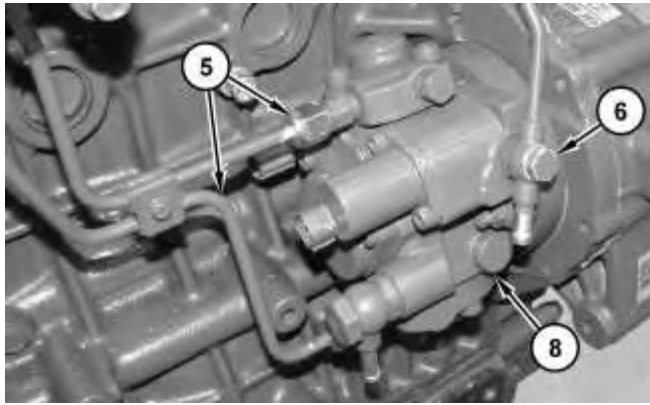


Illustration 3

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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).

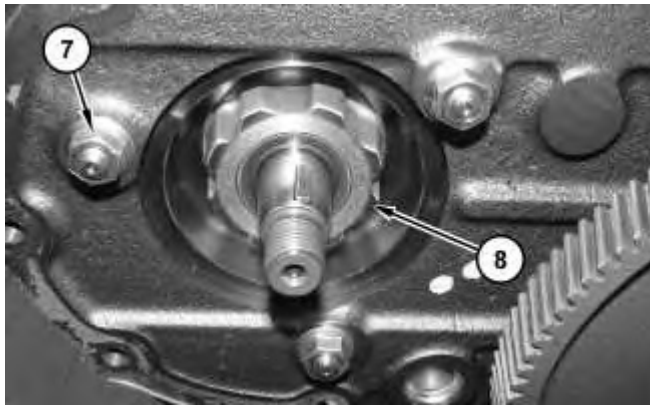


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Illustration 4

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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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i06283437

## 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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