

Product: COMPACT TRACK LOADER

Model: 299D2 XHP COMPACT TRACK LOADER DX2

Configuration: 299D2 XHP & 299D2 Compact Track Loader DX200001-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.



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

g02871416

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

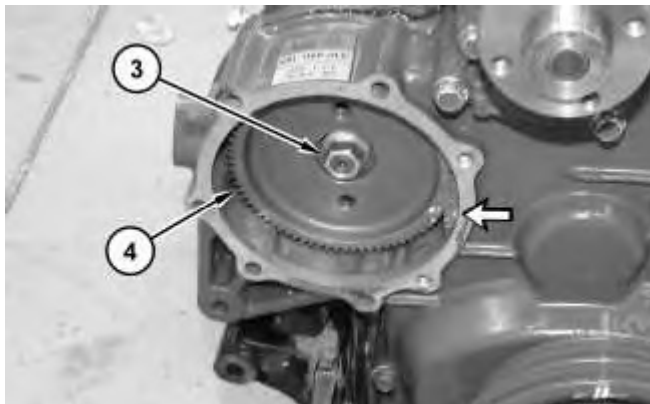


Illustration 2

g02871419

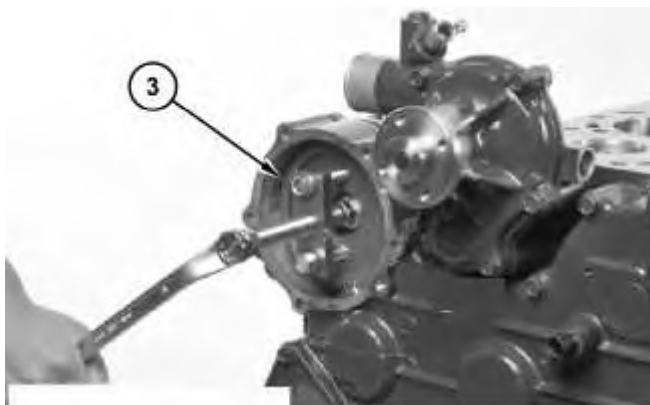


Illustration 3

g02890104

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).

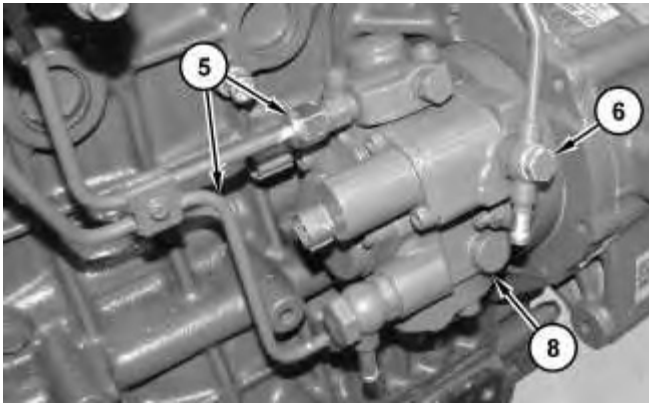


Illustration 4

g02871477



Illustration 5

g02871957

4. Disconnect tube assemblies (5) and tube assembly (6).
 5. Remove nuts (7) to remove fuel injection pump (8).
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i06622292

Fuel Injection Pump - Remove

SMCS - 1251-011

S/N - BL21-UP

S/N - BL71-UP

S/N - BY41-UP

S/N - DX21-UP

S/N - DX91-UP

S/N - FD21-UP

S/N - HP21-UP

S/N - MD21-UP

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".

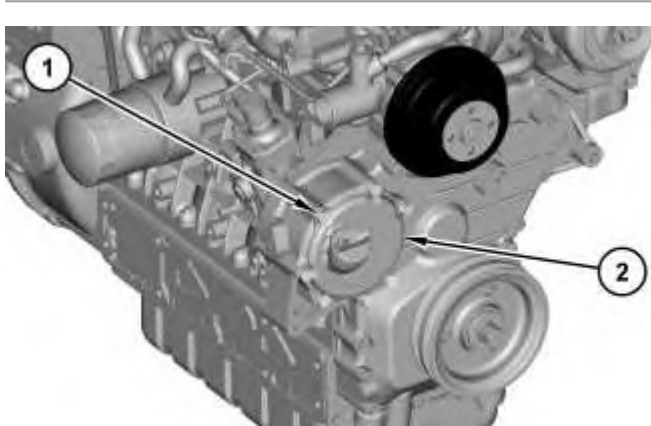


Illustration 1

g03880533

2. Remove bolts (1) and cover (2).

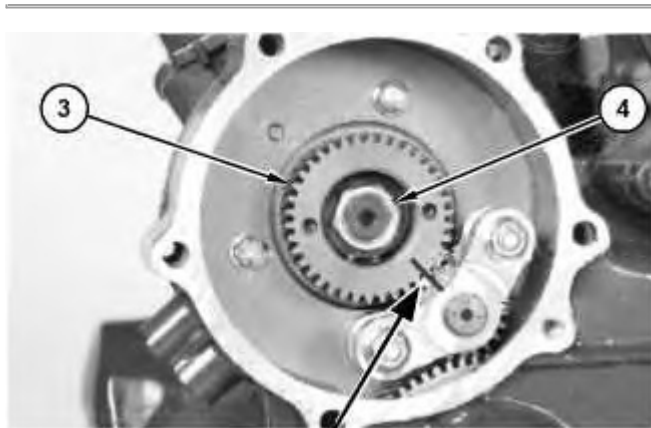


Illustration 2

g06050644

3. Mark the alignment of the pump gear and the idler gear for installation purposes. The alignment mark is shown at the location with the arrow in Illustration 2. Remove nut (4). Use a suitable gear puller to remove gear (3).
-

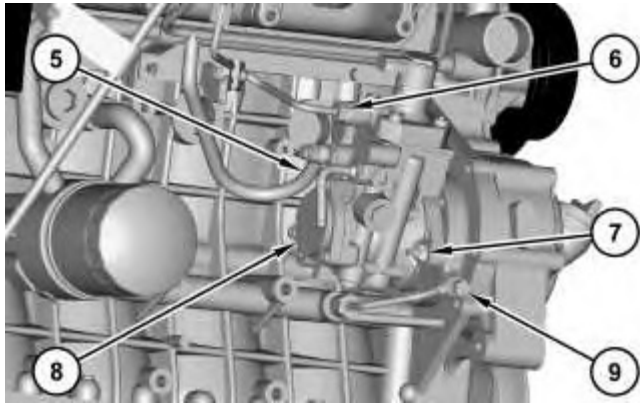


Illustration 3

g03880622

4. Disconnect tube assembly (6), tube assembly (9), and hose assembly (5).
 5. Remove nuts (7) and fuel injection pump (8).
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