



Service Repair Manual

Models

323D L Excavator

Product: EXCAVATOR

Model: 323D L EXCAVATOR LFL

Configuration: 323D L Excavator LFL00001-UP (MACHINE) POWERED BY C6.4 Engine

Disassembly and Assembly C6.4 Engine for Caterpillar Built Machines

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i04554149

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.

Start By:

- A. Remove the fan drive. Refer to Disassembly and Assembly, "Fan Drive - Remove and Install".

Note: Cleanliness is an important factor. Before you begin the removal procedure, the exterior of the components should be cleaned. Cleaning the components thoroughly will help to prevent dirt from entering the internal mechanism.

Note: Put identification marks on all hoses, on all hose assemblies, on all harness assemblies, and on all tube assemblies for installation purposes. Plug all hose assemblies and all tube assemblies. Plugging all hose assemblies helps to prevent fluid loss, and this helps to keep contaminants from entering the system.

NOTICE

Contact with high pressure fuel may cause personal injury or death. Wait 60 seconds after the engine has stopped to allow fuel pressure to purge before any service or repair is performed on the engine fuel lines.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Dispose of all fluids according to local regulations and mandates.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.



WARNING

Contact with high pressure fuel may cause fluid penetration and burn hazards. High pressure fuel spray may cause a fire hazard. Failure to follow these inspection, maintenance and service instructions may cause personal injury or death.

Note: Before opening the fuel system, the engine must be turned off for at least one minute.

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.

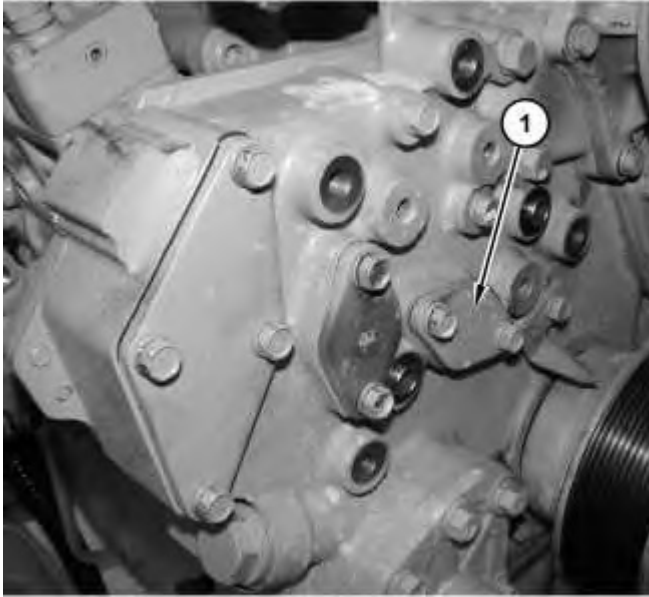


Illustration 1

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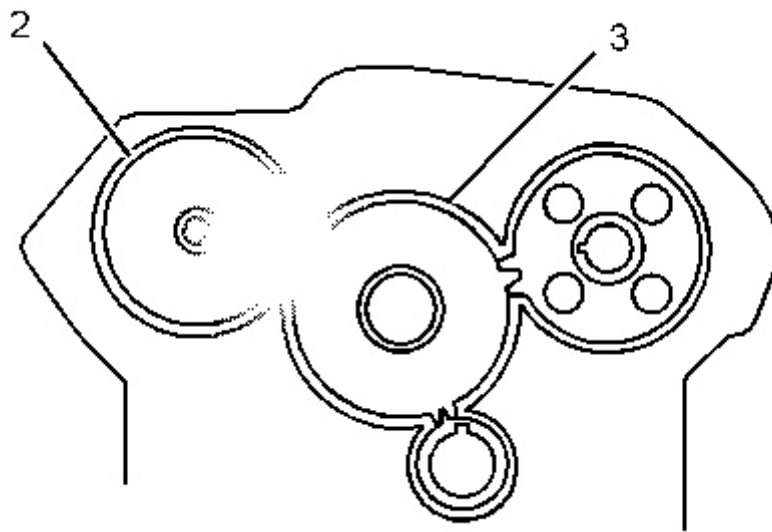


Illustration 2

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(2) Fuel injection pump drive gear

(3) Idler gear

Note: Mark the teeth on pump drive gear (2) and idler gear (3) for installation purposes.

1. Remove cover (1) .
2. If you are reusing pump drive gear (2) , mark pump drive gear (2) and idler gear (3) .

3. If replacing pump drive gear (2) or a problem is encountered, align the "33" Mark on fuel injection pump drive gear (2) with the "3" Mark on idler gear (3) by rotating the engine.

Note: The No. 1 cylinder is at the top center position when the "33" Mark and the "3" Mark are in alignment.

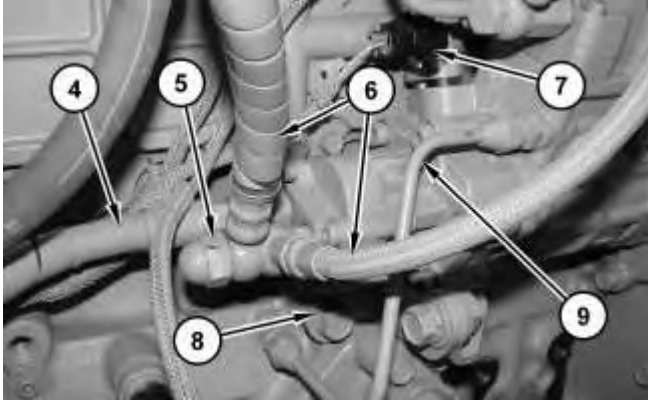


Illustration 3

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4. Disconnect hose assembly (4) .
5. Remove nut (5) .
6. Disconnect hose assemblies (6) and remove the washers. Discard the washers.
7. Disconnect harness assembly (7) .
8. Remove tube assembly (9) and remove bracket assembly (8) .

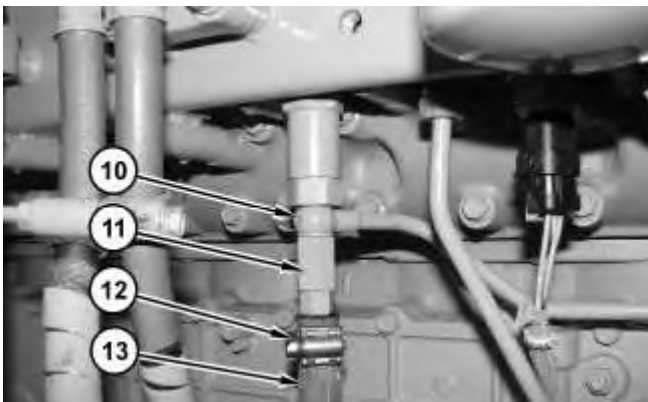


Illustration 4

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9. Loosen clamp (12) and disconnect hose (13) .
10. Remove fitting (11) in order to disconnect tube assembly (10) and remove the washers. Discard the washers.

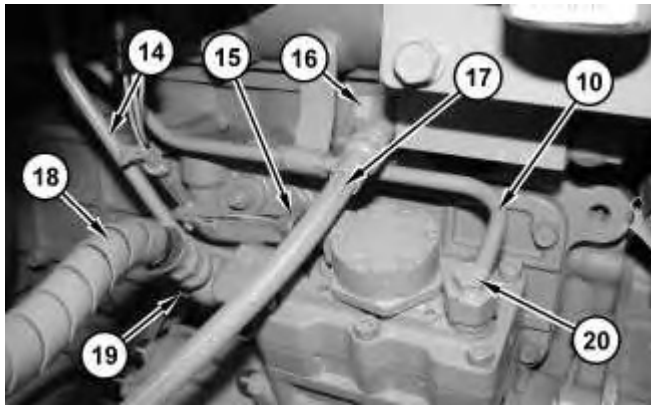


Illustration 5

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11. Remove tube assembly (14) .
12. Disconnect harness assembly (15) .
13. Remove bolt (16) in order to remove hose assembly (17) and the washers. Discard the washers.
14. Remove bolt (19) in order to disconnect hose assembly (18) and the washers. Discard the washers.
15. Remove bolt (20) . Remove tube assembly (10) and the washers. Discard the washers.

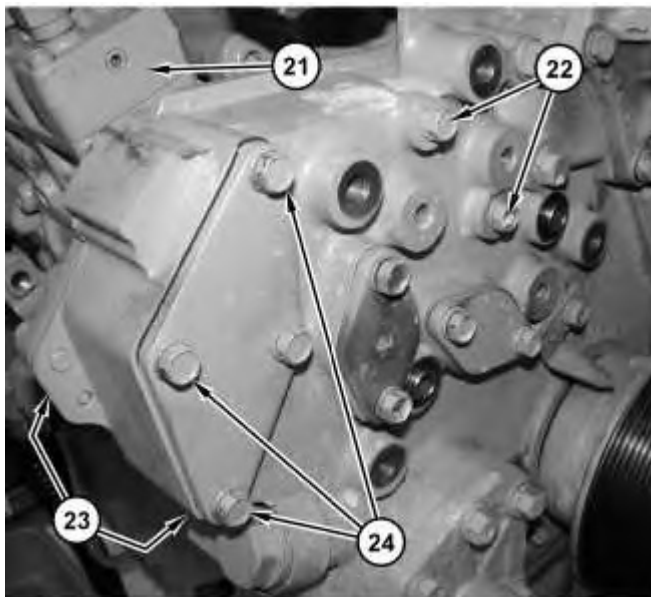


Illustration 6

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16. Remove bolts (22) .

17. Remove two bolts (23) (not shown).
18. Remove bolts (24) .
19. Remove fuel injection pump (21) and the O-ring seal.
20. If you are reusing the pump drive gear, remove the pump drive gear and install the pump drive gear on the new fuel injection pump. The marks that were made during removal will be used to orient the fuel injection pump during installation. If a new gear is being used, transfer the mark from the original gear to the replacement gear for installation purposes.

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