



Service Repair Manual

Models

324D and 324D L Excavator

Product: EXCAVATOR

Model: 324D L EXCAVATOR DFP

Configuration: 324D & 324D L Excavators DFP00001-UP (MACHINE) POWERED BY C7 Engine

Disassembly and Assembly

C7

Engines for Caterpillar Built Machines

Media Number -REN9218-13

Publication Date -01/06/2014

Date Updated -04/06/2014

i02302664

Housing (Front) - Remove

SMCS - 1151-011

Removal Procedure

Start By:

- A. Remove the camshaft. Refer to Disassembly and Assembly, "Camshaft - Remove".
- B. Remove the unit injector hydraulic pump. Refer to Disassembly and Assembly, "Unit Injector Hydraulic Pump - Remove".

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.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

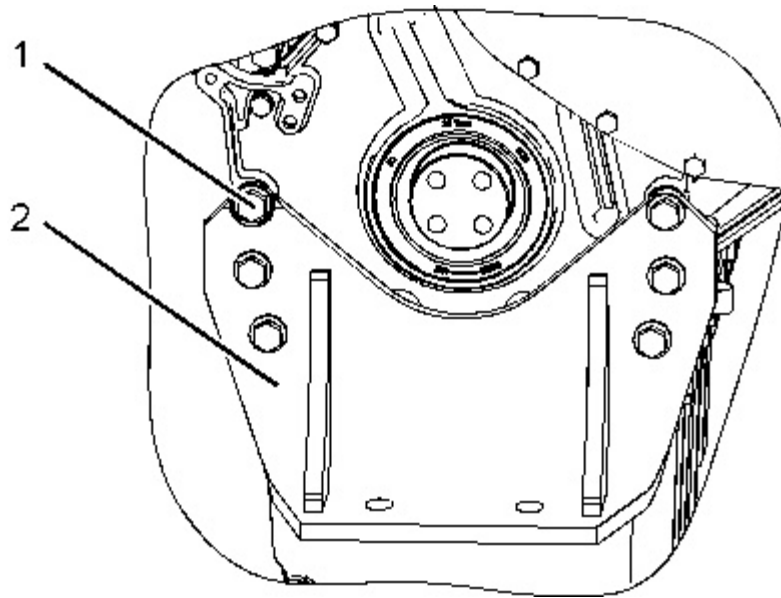


Illustration 1

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1. Support the weight of the front of the engine. Remove bolts (1) and front engine support (2) .

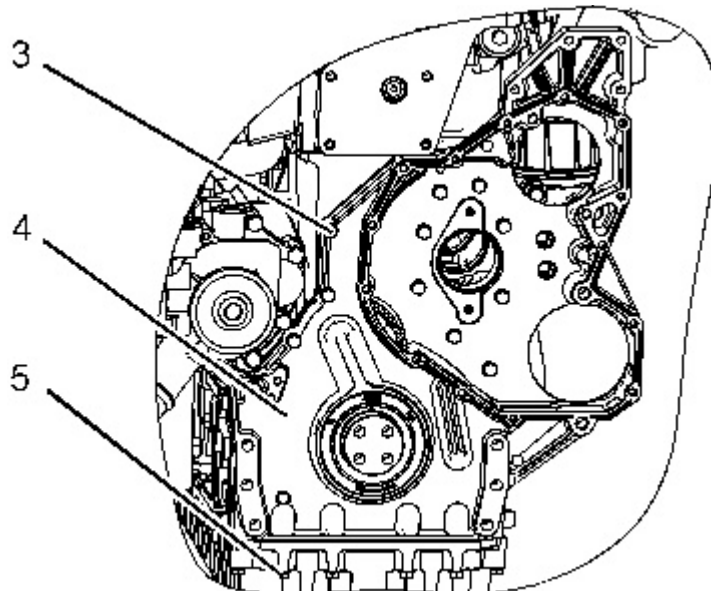


Illustration 2

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2. Remove bolts (3) and bolts (5). Remove front housing (4) .

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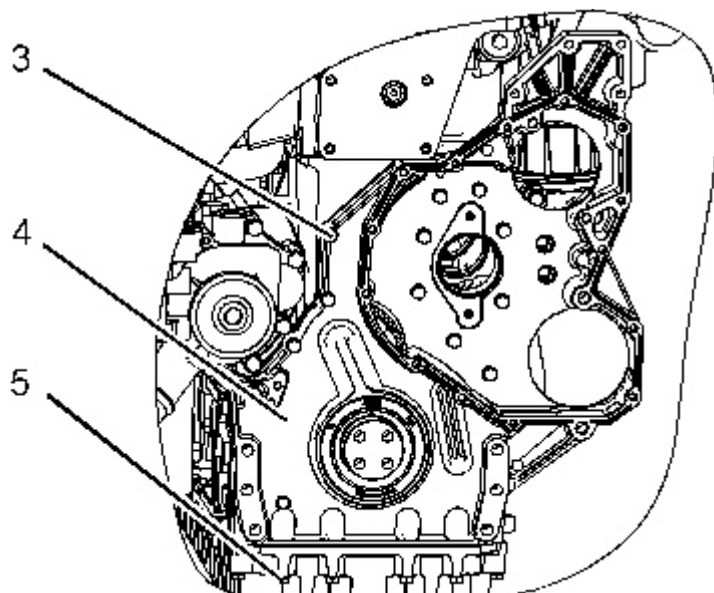
Housing (Front) - Install

SMCS - 1151-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8T-9011	Component Cleaner	1
B	4C-9500	Quick Cure Primer	1
C	1U-8846	Gasket Sealant	1



1. Clean the joint face on front housing (4) with Tooling (A) .
2. Apply Tooling (B) to the joint face. Allow the primer to dry for at least three to five minutes.
3. Apply Tooling (C) to the joint face. Spread the sealant uniformly. Front housing (4) must be installed within ten minutes of applying the sealant.
4. Position front housing (4) on the cylinder block.
5. Install bolts (3) and bolts (5) .

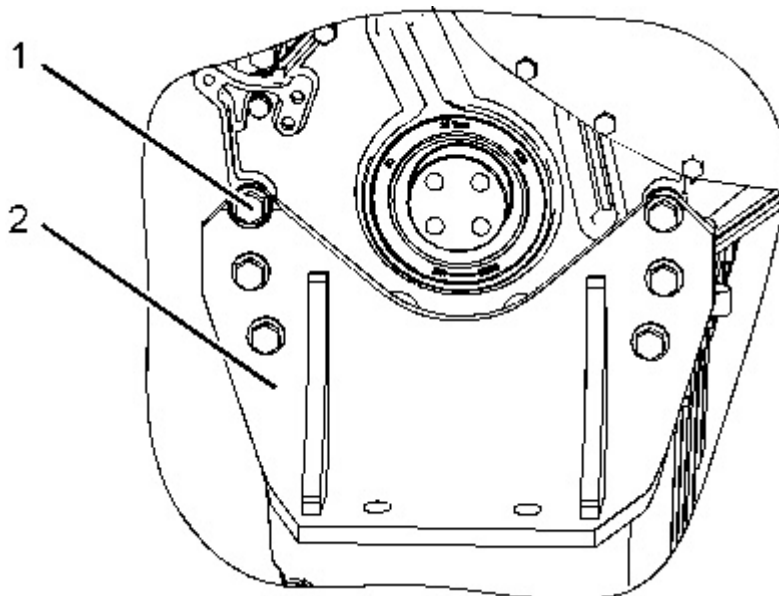


Illustration 2

g01153092

6. Position front engine support (2) and install bolts (1) .

End By:

- a. Install the unit injector hydraulic pump. Refer to Disassembly and Assembly, "Unit Injector Hydraulic Pump - Install".
- b. Install the camshaft. Refer to Disassembly and Assembly, "Camshaft - Install".

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i02230724

Camshaft Idler Gear - Remove and Install

SMCS - 1206-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0520	Driver Group	1

Start By:

- Remove the front housing. Refer to Disassembly and Assembly, "Housing (Front) - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

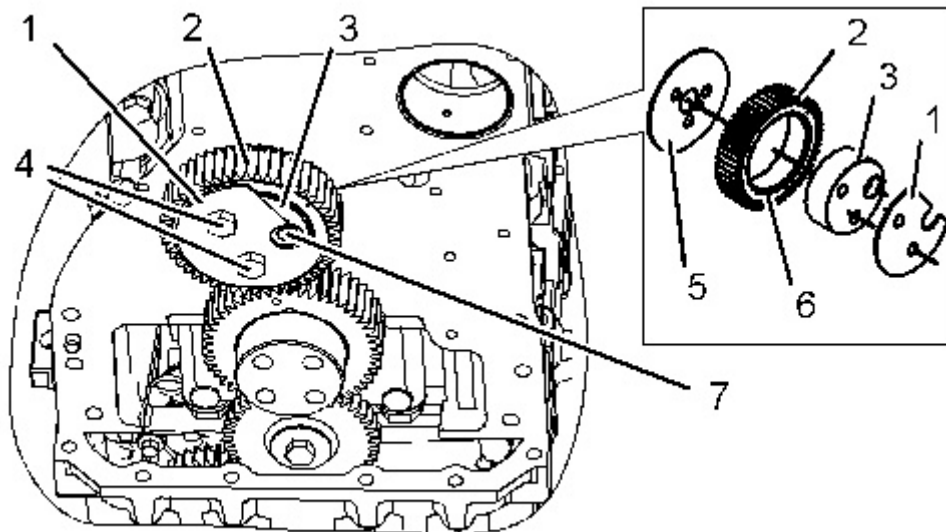


Illustration 1

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1. Remove bolts (4) and retaining plate (1) .
2. Remove camshaft idler gear (2) .
3. Remove bolt (7) and idler shaft (3) from the cylinder block. Remove thrust plate (5) .
4. Use Tooling (A) and a suitable press to remove bearing (6) from camshaft idler gear (2) .

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0520	Driver Group	1

NOTICE

Keep all parts clean from contaminants.

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