

Product: WHEEL LOADER

Model: 994F WHEEL LOADER 442

Configuration: 994F Wheel Loader 44200001-UP (MACHINE) POWERED BY 3516 Engine

## Disassembly and Assembly

### 3500 and 3500B High Displacement Engines for Caterpillar Built Machines

Media Number -SEN1126-33

Publication Date -01/07/2015

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i07201266

## Front Drive Housing - Remove and Install

SMCS - 1151-010

### Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0074	Slide Hammer Puller	1
	8B-7557	Threaded Adapter	1
B	138-7573	Link Bracket	2
C	1P-0520	Driver Group	1
D	-	Guide Bolt 5/8x11 NC	2

#### Start By:

- Remove the oil filter base. Refer to Disassembly and Assembly, "Engine Oil Filter Base - Remove".
- Remove the crankshaft front seal and the wear sleeve. Refer to Disassembly and Assembly, "Crankshaft Front Seal and Wear Sleeve - Remove".
- Remove the accessory drive (front). Refer to Disassembly and Assembly, "Accessory Drive (Front) - Remove".
- Remove the engine oil and water pump drive. Refer to Disassembly and Assembly, "Engine Oil and Water Pump Drive - Remove".

- e. Remove the auxiliary water pump. Refer to Disassembly and Assembly, "Auxiliary Water Pump - Remove".

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## NOTICE

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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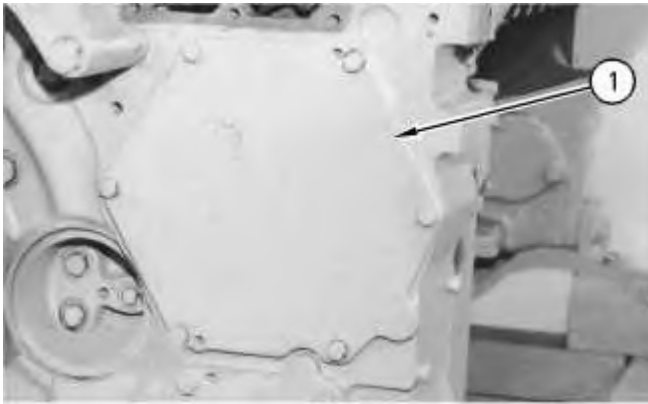


Illustration 1

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1. Remove cover (1) and the O-ring seal.

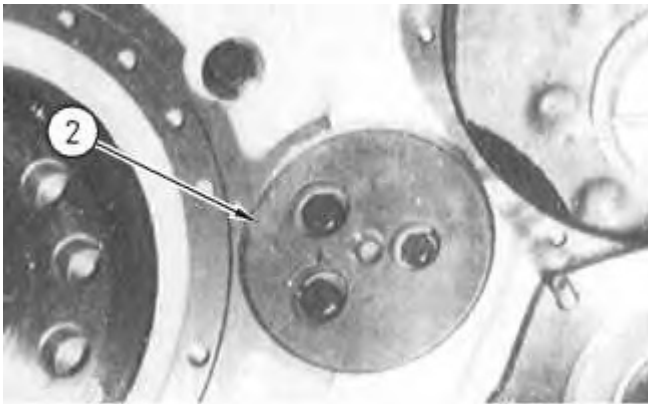


Illustration 2

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2. Remove the bolts that hold shaft (2) in the front drive housing. Use Tooling (A) to remove shaft (2). Remove the O-ring seal from shaft (2).
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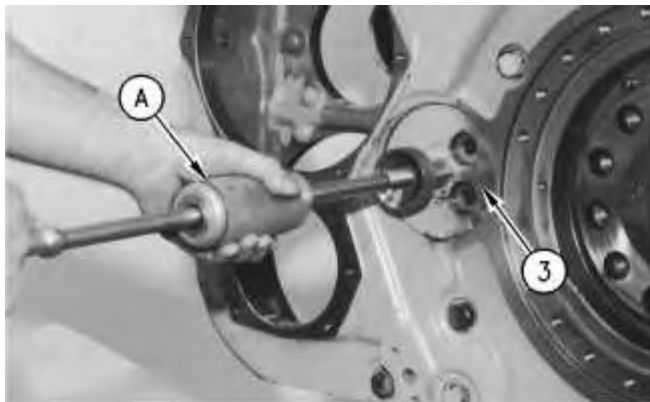


Illustration 3

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3. Remove the bolts that hold shaft (3) in the front drive housing. Use Tooling (A) to remove shaft (3), the idler gear, and the washer. Remove the O-ring seal from shaft (3).
4. Use Tooling (C) and a suitable press to remove the bearing from the idler gear, if necessary.

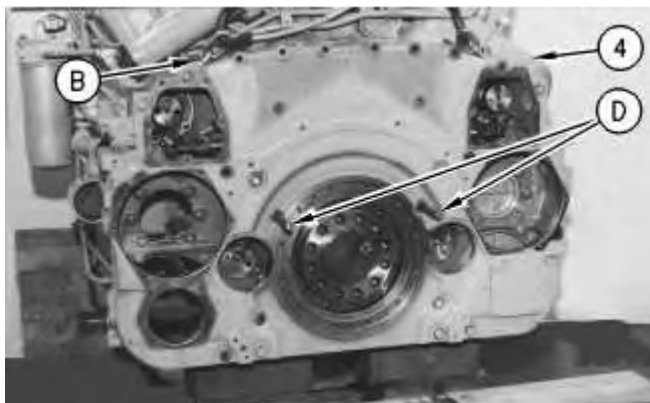


Illustration 4

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5. Install Tooling (B) and attach a suitable lifting device to front drive housing (4). The weight of front drive housing (4) is approximately 209 kg (460 lb). Remove two bolts and install Tooling (D). Remove the rest of the bolts that hold front drive housing (4) to the cylinder block. Remove front drive housing (4) and the gasket.

## Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
B	138-7573	Link Bracket	2
C	1P-0520	Driver Group	1
D	-	Guide Bolt (5/8x11 NC)	2
F	-	Loctite Flange Sealant 5900	-

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