



Service Repair Manual

Models

960F Wheel Loader

Product: WHEEL LOADER

Model: 960F WHEEL LOADER 9ZJ

Configuration: 960F Wheel Loader 9ZJ00001-UP (MACHINE) POWERED BY 3116 Engine

Disassembly and Assembly 960F WHEEL LOADER POWER TRAIN

Media Number -SEN6667-03

Publication Date -01/12/2004

Date Updated -08/03/2006

SEN66670005

Front Drive Shaft & Carrier Bearing

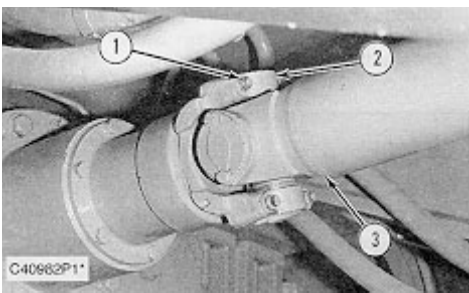
SMCS - 3253; 3267-015; 3267-016; 3267-010

Remove & Install Front Drive Shaft & Carrier Bearing

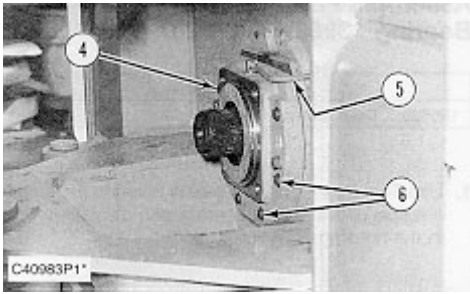
Start By:

- a. remove center drive shaft
- b. remove parking brake*

*This operation is in the 960F Wheel Loader Machine Systems Disassembly & Assembly module, Form No. SENR6675.



1. Remove four bolts (1) and two straps (2). Disconnect front drive shaft (3) from the front differential.



Rear Side Of Front Drive Shaft & Carrier Bearing Shown

2. Disconnect grease tube assembly (5) from the bearing housing.
3. Remove six bolts (6) and the washers that hold the front drive shaft and the carrier bearing in position.
4. Using two persons, remove front drive shaft and carrier bearing (4) from the front loader frame. The weight of the unit is approximately 34 kg (75 lb).

NOTE: The following steps are for the installation of the front drive shaft and carrier housing.

5. Using two persons, put front drive shaft and carrier bearing (4) in position in the front loader frame. Install six bolts (6) and the washers that hold it.
6. Connect grease tube assembly (5) to the bearing housing.
7. Connect front drive shaft (3) to the front differential. Install two straps (2) and four bolts (1). Tighten four bolts (1) to a torque of $60 \pm 7 \text{ N}\cdot\text{m}$ ($44 \pm 5 \text{ lb ft}$).

End By:

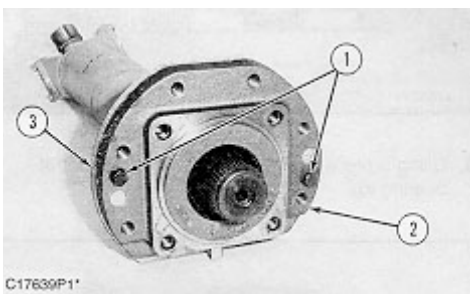
- a. install parking brake*
- b. install center drive shaft

*This operation is in the 960F Wheel Loader Machine Systems Disassembly & Assembly module, Form No. SENR6675.

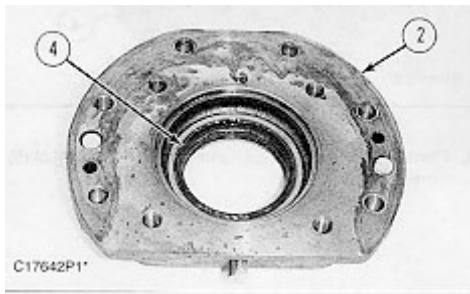
Disassemble Front Drive Shaft & Carrier Bearing

Start By:

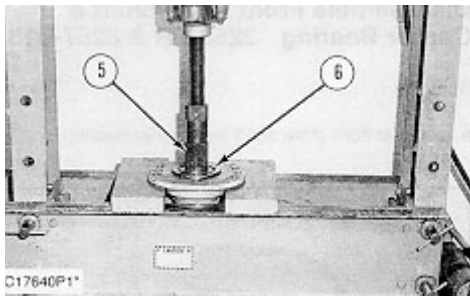
- a. remove front drive shaft and carrier bearing



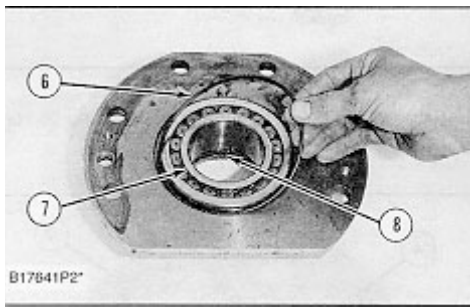
1. Remove two bolts (1), and remove housing (2) from housing (3).



2. Remove lip seal (4) from housing (2).



3. Using a press as shown, press shaft (5) out of bearing (6).

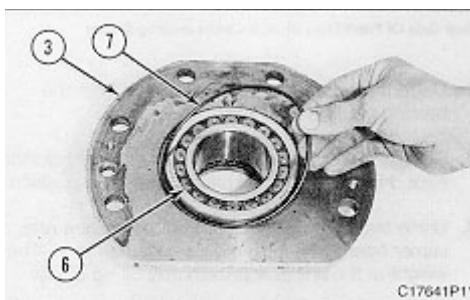


4. Remove O-ring seal (6), bearing (7) and lip seal (8) from housing (3).

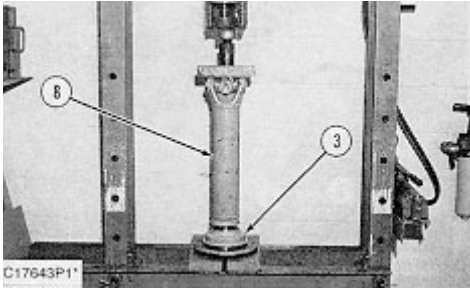
Assemble Front Drive Shaft & Carrier Bearing

Tools Needed		A
1P0520	Driver Group	1

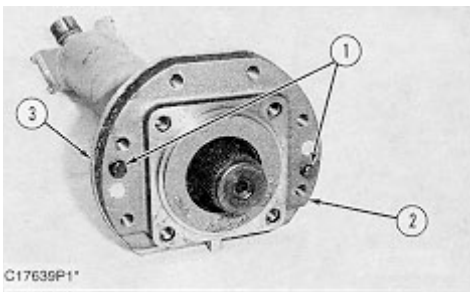
1. Use Tool (A) to install lip seal in housing (3). Install the seal until it makes contact with the counterbore in the housing.



2. Lower the temperature of bearing (6), and install it in housing (3). Install the bearing until it makes contact with the counterbore in the housing.
3. Check the condition of O-ring seal (7). If the seal is worn or damaged, use a new part for replacement. Put **5P-0960** Multipurpose Grease on O-ring seal (7), and install it in housing (3).
4. Put **5P-0960** Multipurpose Grease on the lips of the lip seal in housing (3).



5. Using a press as shown, press front drive shaft assembly (8) into the bearing in housing (3).
6. Use Tool (A) to install the lip seal in housing (2). Install the seal until it makes contact with the counterbore in the housing.



7. Put **5P-0960** Multipurpose Grease on the lips of the seal in housing (2). Put housing (2) in position on housing (3), and install bolts (1) that hold it.

End By:

- a. install front drive shaft and carrier bearing

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