



Service Repair Manual

Model

420E BACKHOE LOADER

Product: BACKHOE LOADER

Model: 420E BACKHOE LOADER PHC

Configuration: 420E Backhoe Loader Parallel Lift PHC00001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly

416E, 420E and 430E Backhoe Loaders Power Train

Media Number -KENR7651-05

Publication Date -01/05/2014

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i02490836

Axle Housing, Axle Shaft, and Wheel Flange - Remove

SMCS - 3259-011; 3260-011; 4057-011; 4234-011

S/N - PHC1-UP

Removal Procedure

Start By:

- a. Remove the axle from the machine. Refer to Disassembly and Assembly, "Axle - 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 Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

1. Drain the oil from the axle. Refer to Operation and Maintenance Manual, "Axle Oil (Rear) - Change".
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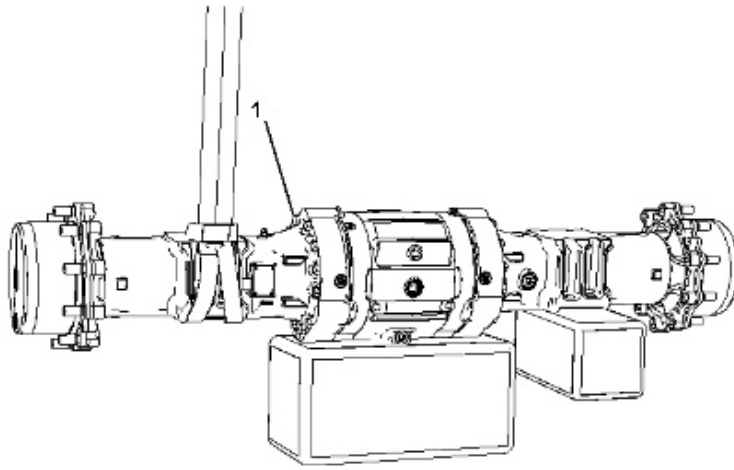


Illustration 1

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Note: Put location marks on the axle housing, brake cylinder assemblies, and the center housing for assembly purposes.

2. Position suitable blocks under the axle in order to support the sections during removal. Attach a suitable lifting device onto the axle housing. The weight of the axle housing is approximately 147 kg (325 lb). Remove bolts (1).

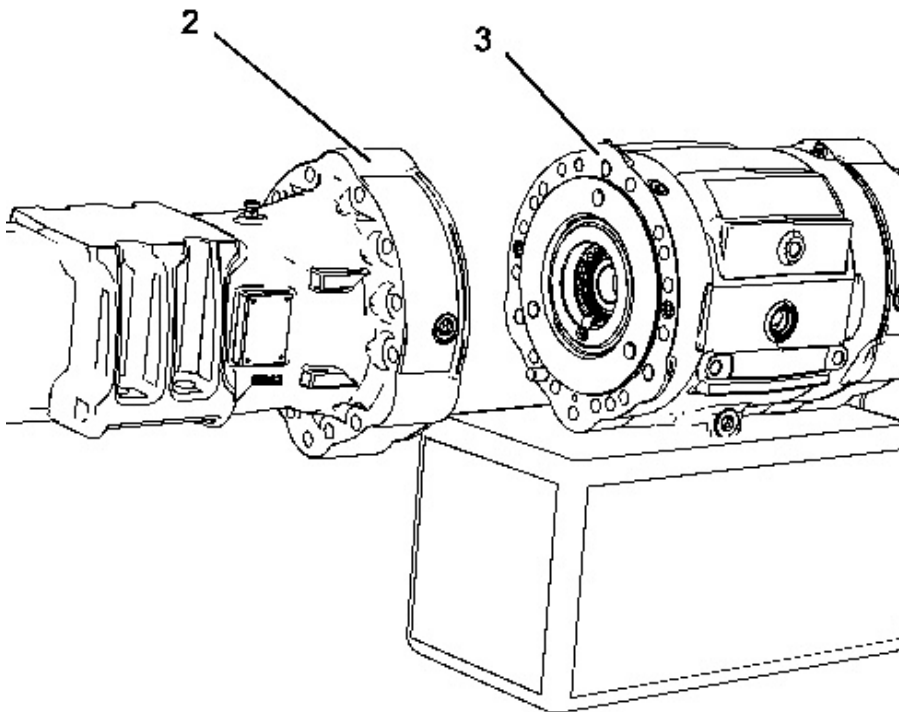


Illustration 2

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3. Remove axle housing (2) from brake cylinder assembly (3).
4. Repeat Steps 2 through 3 for the other side.

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Axle Housing, Axle Shaft, and Wheel Flange - Disassemble

SMCS - 3260-015; 4057-015; 4234-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	230-7923	Spanner Wrench	1
B	1P-1861	Retaining Ring Pliers	1

Start By:

- Remove the axle housing, the axle shaft, and the wheel flange from the axle. Refer to Disassembly and Assembly, "Axle Housing, Axle Shaft, and Wheel Flange - Remove".
 - Remove the final drive planetary from the axle. Refer to Disassembly and Assembly, "Final Drive Planetary - Remove".
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