

Product: BACKHOE LOADER

Model: 420D BACKHOE LOADER FDP

Configuration: 420D Backhoe Loader FDP00001-07198 (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly

416D, 420D, 424D, 428D, 430D, 432D, 438D and 442D Backhoe Loaders Power Train

Media Number -REN3578-12

Publication Date -01/04/2010

Date Updated -13/04/2010

i01499533

Final Drive (Drive and Steering Axle)(Rear) - Disassemble

SMCS - 4050-015-RE

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8B-7554	Bearing Cup Puller	1

Start By:

- A. Remove the tires and wheels. See Disassembly and Assembly, "Tires & Wheels (Rear) - Remove and Install".
 - B. Remove the rear axle. See Disassembly and Assembly, "Drive and Steering Axle (Rear) - Remove".
 - C. Remove the final drive. See Disassembly and Assembly, "Final Drive (Drive and Steering Axle) - Remove".
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Illustration 1

g00780516

1. Remove snap ring (1) .

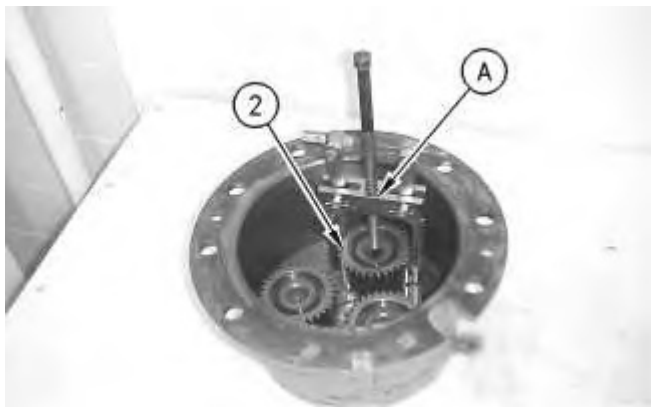


Illustration 2

g00780521

2. Use tooling (A) in order to remove planetary gear (2) .



Illustration 3

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3. Remove snap ring (3) and thrust washer (4) from the center of the planetary carrier.

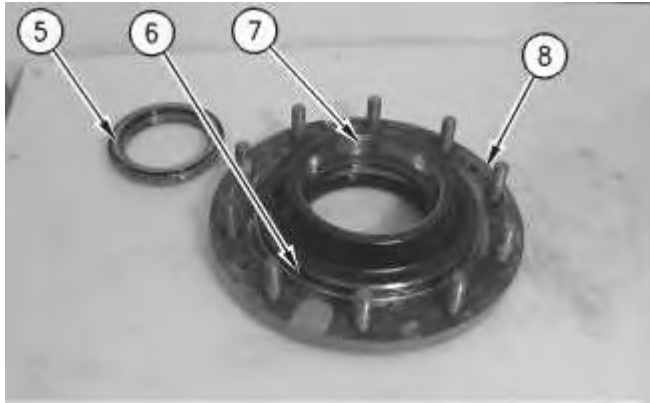


Illustration 4

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4. Remove bearing (5), O-ring (6), and bearing race (7) from hub (8) .

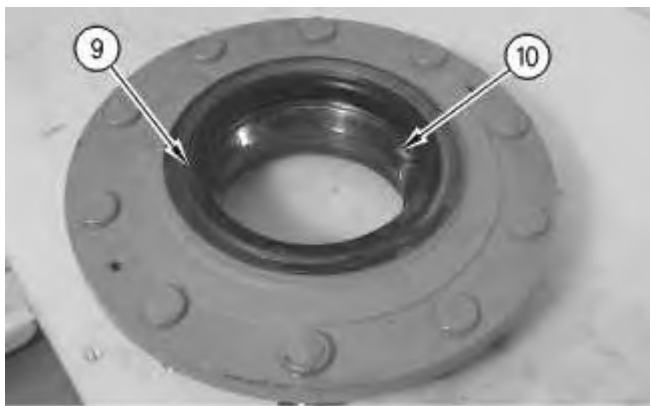
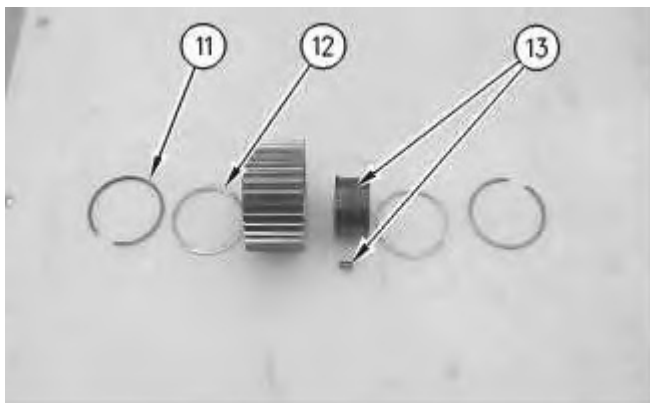


Illustration 5

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5. Turn over the hub. Pry out seal ring (9). Remove bearing race (10) from the bore of the hub.



6. Remove two snap rings (11) from planetary gear. Remove two washers (12) and roller bearing (13) .
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i01504627

Final Drive (Drive and Steering Axle)(Rear) - Assemble

SMCS - 4050-016-RE

Assembly Procedure

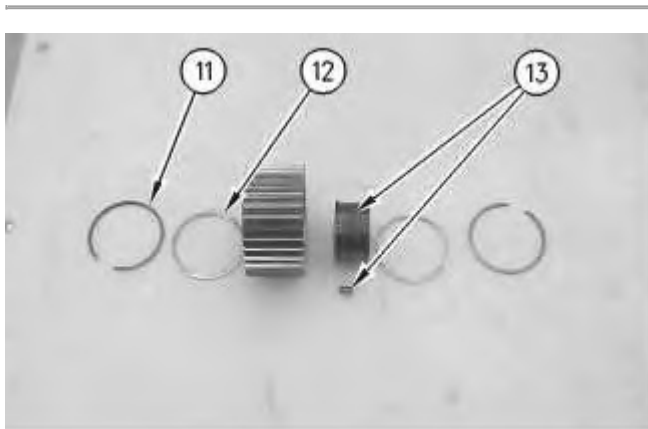


Illustration 1

g00780552

1. Install roller bearing (13), two washers (12), and two snap rings (11) .
-

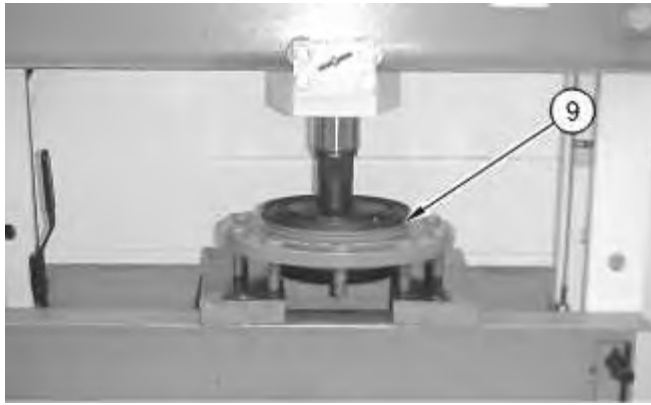


Illustration 2

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2. Use a press in order to install the bearing race. Apply some **9S-3263** Thread Lock Compound to the outer diameter of seal (9). Use a press in order to install seal (9) .

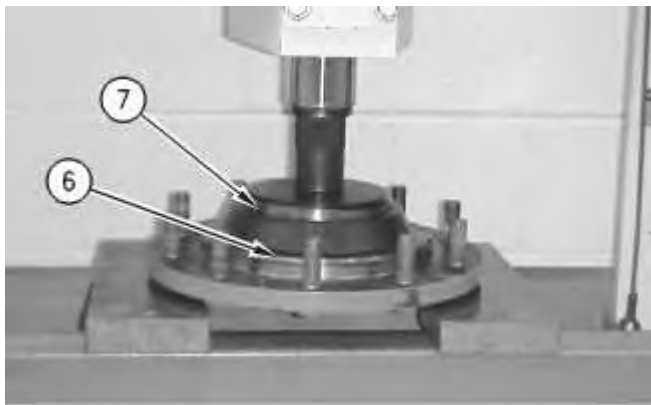


Illustration 3

g00780617

3. Use a press in order to install bearing race (7). Install O-ring (6) .



Illustration 4

g00780523

4. Install snap ring (3) and thrust washer (4) into the center of the planetary carrier.



Illustration 5

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5. Install the planetary gears. Secure the gears with snap ring (1) .
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i01503434

Final Drive (Drive and Steering Axle)(Rear) - Install

SMCS - 4050-012-RE

Installation Procedure

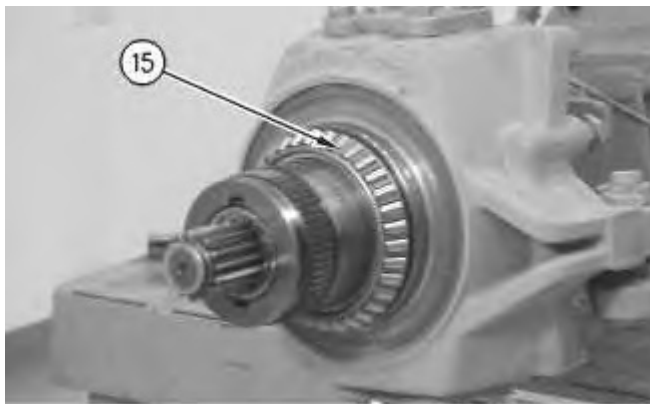


Illustration 1

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1. Install bearing (15) onto the housing for the steering knuckle.
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Illustration 2

g00780224

2. Lubricate the seal in the bore of the hub. Install the hub onto the steering knuckle. Install the outer hub bearing in order to secure the hub.

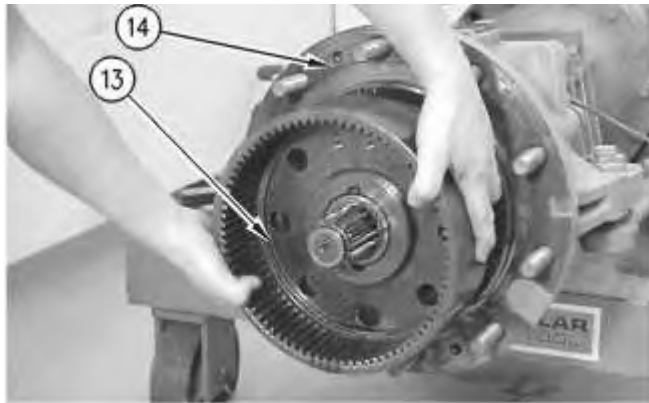


Illustration 3

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3. Install internal gear (13) .

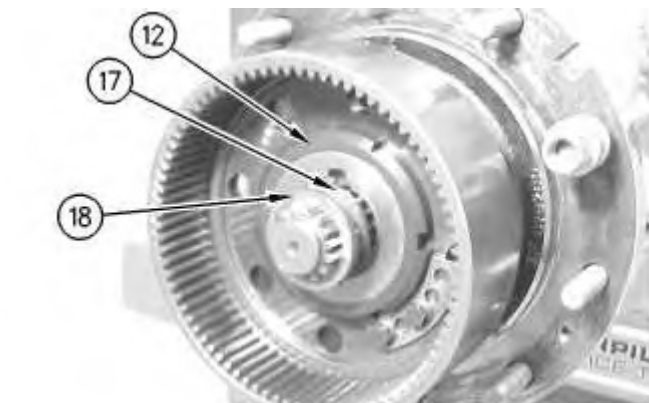


Illustration 4

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