



Service Repair Manual

Models

966C WHEEL LOADER

Product: WHEEL LOADER

Model: 966C WHEEL LOADER 78G

Configuration: 966C WHEEL LOADER 78G02871-UP (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly 966 WHEEL LOADER POWER TRAIN

Media Number -REG01117-02

Publication Date -01/04/1992

Date Updated -10/10/2001

Final Drive Ring Gears And Hubs

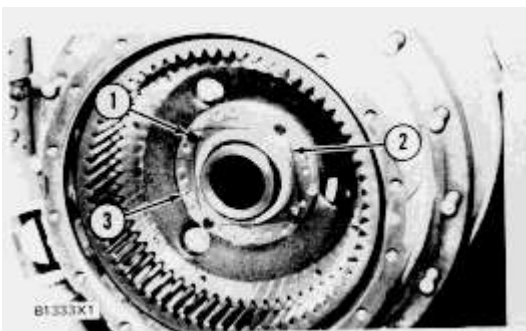
SMCS - 4054; 4055-11; 4055-12

Remove Final Drive And Gears And Hubs

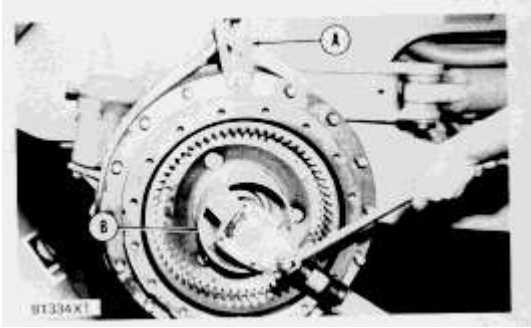
	Tools Needed	A	B	C
FT522	Bracket	1		
5P3044	Spanner Wrench		1	
7S4134	Torque Wrench		1	
1H3107	Puller Assembly			1
5F7343	Bearing Puller Attachment			1
1P525	Plate			1
5P5247	Hydraulic Puller			1
5P3100	Pump Group (or electric)			1

start by:

- a) remove tires and rims (front or rear)
- b) remove final drive planet carriers

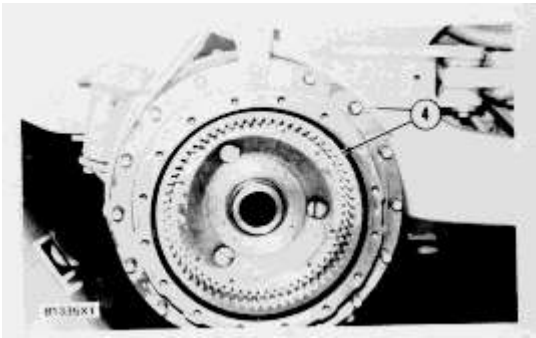


1. Remove lockwire (2). Remove bolts (1) from nut (3).

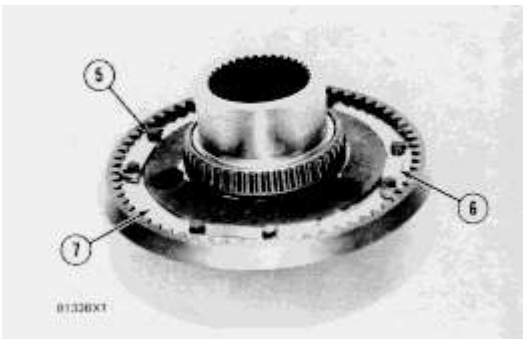


2. Fasten tool (A) and a hoist to the wheel assembly as shown. Put an up force on the wheel assembly with the hoist.

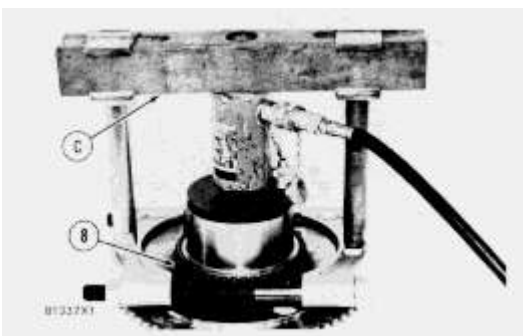
3. Use tooling (B) to remove nut (3) from the spindle.



4. Use two persons to remove ring gear (4) and hub from the spindle. The weight of the ring gear and hub is 80 lb. (36 kg).



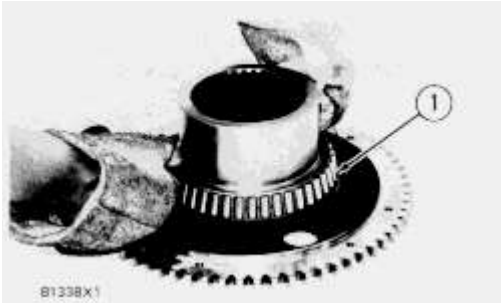
5. Remove bolts (5). Remove locks (6) and plates and remove hub assembly (7) from the ring gear.



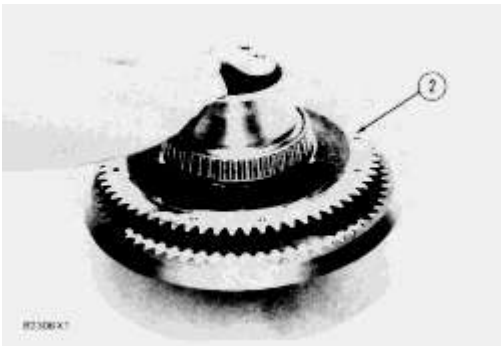
6. Use tooling (C) to remove bearing cone (8) from the hub.

Install Final Drive Ring Gears And Hubs

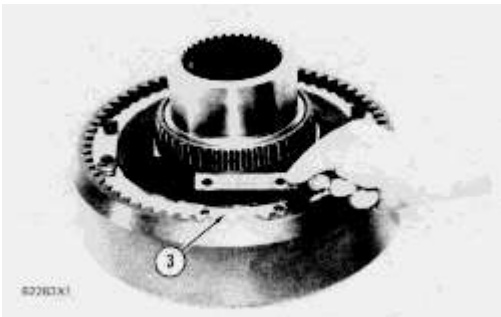
	Tools Needed	A	B
FT522	Bracket	1	
5P3044	Spanner Wrench		1
7S4134	Torque Multiplier		1



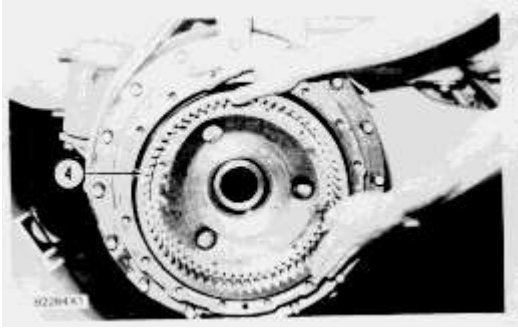
1. Heat the bearing cone to a maximum temperature of 275° (135°C). Install bearing cone (1) on the hub.



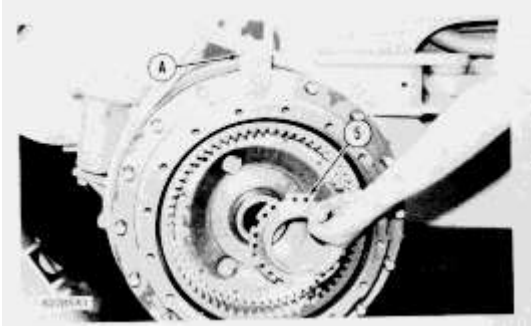
2. Put hub assembly (2) in position in the ring gear.



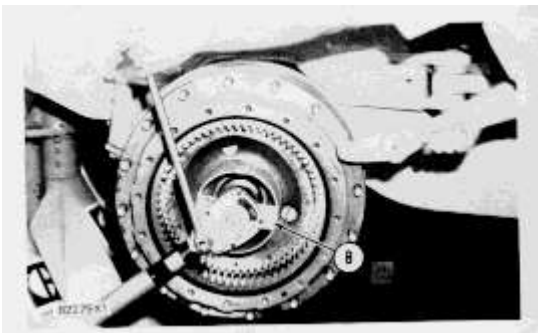
3. Install plates (3), locks and bolts that hold the hub in the ring gear.



4. Use two persons to put ring gear (4) and hub in position on the spindle.



5. Install nut (5) on the spindle. Remove tool (A) and the hoist from the wheel assembly.



6. Make an adjustment to the wheel bearings as follows:

a) Use an 8 in. (20.3 cm) long torque wrench (9S7354) on the wheel stud to slowly turn the wheel assembly while nut (5) is tightened with tooling (B). Tighten nut (5) until it takes a torque of 160 ± 50 lb.in. (18.1 ± 5.7 N·m) to turn the wheel assembly one complete revolution.

NOTE: Make sure the torque wrench is installed on the wheel stud so it is in line with the center of the wheel as shown.

b) Loosen nut (5). Tighten nut (5) again until it takes a torque of 75 ± 25 lb.in. (8.5 ± 2.8 N·m) to slowly turn the wheel assembly one complete revolution with an 8 in. (20.3 cm) torque wrench (9S7354) at the wheel stud.

NOTE: For torque wrenches of different lengths use the following formula for the correct torque:

$$C = \frac{A \times T}{A + B}$$

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