



Service Repair Manual

Models

M318F Wheeled Excavator

Product: WHEELED EXCAVATOR

Model: M318F WHEELED EXCAVATOR F8B

Configuration: M318F Wheeled Excavator F8B00001-UP (MACHINE) POWERED BY C7.1 Engine

Disassembly and Assembly

M314F, M316F, M318F, M320F and M322F Wheeled Excavator Power Train

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i06220146

Final Drive Carriers, Hubs and Brakes - Assemble - Front Axle

SMCS - 4054-016; 4092-016; 4253-016; 4255-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1863	Retaining Ring Pliers	1
C	267-6564	Spanner	1
J	-	Loctite Graphite 50 Anti-Seize Lubricant	-
K	6V-6080	Torque Multiplier Gp	1
L	269-7627	Seal Installer	1

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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.



Illustration 1

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1. Raise the temperature of bearing cone (32) and install bearing cone (32).



Illustration 2

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2. Lower the temperature of bearing cups (30) and install bearing cups (30).

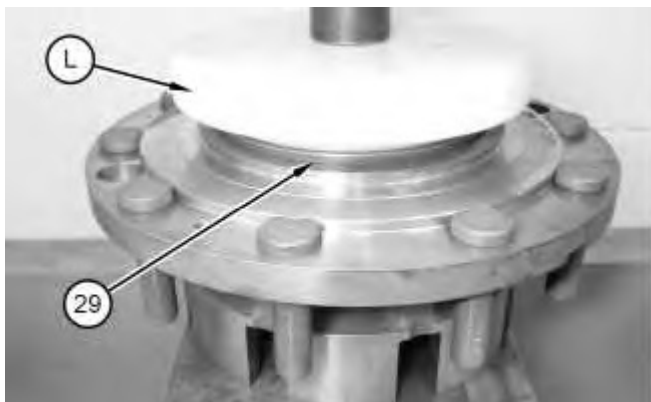


Illustration 3

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3. Use Tooling (L) and a suitable press in order to install seal (29).



Illustration 4

g01136427

4. Attach a suitable lifting device to flange (28) and install flange (28). The weight of flange (28) is approximately 38 kg (83 lb). Raise the temperature of bearing cone (27) and install bearing cone (27).



Illustration 5

g01136302

5. Install O-ring seal (19), ring (20), O-ring seal (21), and ring (22).



Illustration 6

g01136296

WARNING

Personal injury can result from being struck by parts propelled by a released spring force.

Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

6. Position piston (18). Install bolts (17), the springs, and the retainers. Tighten bolts (17) to a torque of 11 N·m (97 lb in).



Illustration 7

g01136430

7. Install ring gear housing (16).

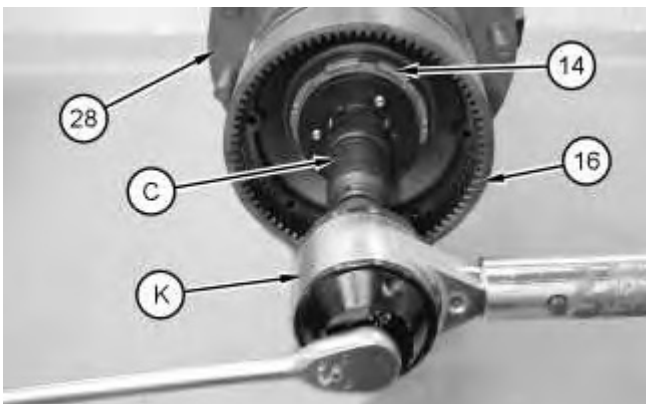


Illustration 8

g01136432

8. Apply Tooling (J) to nut (14) and install nut (14). Use Tooling (C) and Tooling (K) in order to tighten nut (14). Tighten nut (14) to a torque of 1400 + 200 - 0 N·m (103 + 14 - 0 lb ft).

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