



Service Repair Manual

Models

M320 Excavator

Product: EXCAVATOR

Model: M320 EXCAVATOR 9PS

Configuration: M320 Excavator 9PS00001-UP (MACHINE) POWERED BY 3116 Engine

Disassembly and Assembly M318 and M320 Excavators Power Train

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

SMCS - 4054-015; 4092-015; 4253-015; 4255-015

S/N - 6ES1-UP

S/N - 6WL1-UP

S/N - 8SS1-UP

S/N - 9PS1-UP

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-5839	Bearing Puller	1
	1P-0459	Drive Plate	1
B	4C-4058	Spanner Wrench	1
	4C-4061	Centering Plate	1
	1U-7093	Ratchet Wrench	1
C	6V-6080	Torque Multiplier	1
	4C-6723	Socket	1
D	1U-6415	Three Jaw Puller	1
E	4C-3085	Two Jaw Puller	1

F	147-1744	Bearing Puller	1
G	1P-0510	Driver Gp	1
H	5P-4197	Spacer	1
J	1A-1935	Full Nut	1
	3H-0465	Push-Puller Plate	4
	5F-7342	Adapter	2
	5F-7343	Bearing Puller Gp	1
	5F-7366	Forcing Screw	1
	5P-8248	Hard Washer	2
	6B-6684	Full Nut	2
	6V-8237	Washer	1
	8B-7549	Puller Leg	2
	9S-7338	Crossblock	1

Start By:

- A. Remove the tire and rim (front). Refer to Disassembly and Assembly, "Tire and Rim - Remove (Front)" in this manual.

NOTICE

Failure to properly assemble parts or failure to follow established procedures can lead to damage of the parts and assembly.

To avoid damage to parts, always identify and mark the parts so that they can be installed in the same location. Ensure that gear surfaces align. Never force parts during assembly.

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.

! WARNING

At operating temperature, the hydraulic oil is hot and under pressure. Hot oils can cause burns.

To prevent possible personal injury, release the pressure in the work tool hydraulic circuit (boom, stick, bucket, and swing), travel circuits, and the hydraulic oil tank at the filler cap before any hydraulic lines or components are disconnected or removed.

Remove the filler cap only when the engine is stopped and the filler cap is cool enough to touch.

1. Release the hydraulic system pressure. Refer to Disassembly and Assembly, "Hydraulic System Pressure - Release" in this manual.

Note: This procedure can be performed in-chassis. The following procedure is out-of-chassis for photographic purposes.

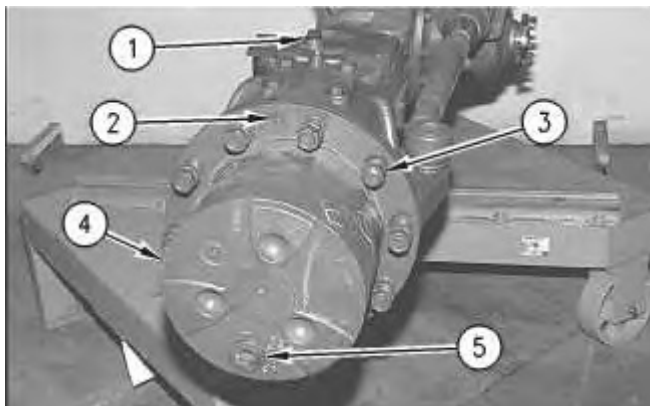


Illustration 1

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2. Rotate the final drive by hand. Position drain plug (5) , as shown.
3. Disconnect brake hose (1) . Put a plug in the end of the hose. Plugs prevent oil loss. Plugs prevent the contamination of the system.
4. Remove drain plug (5) . Drain the oil into a suitable container for storage or disposal. The capacity of each final drive is 1.5 L (1.59 qt).
5. If necessary, remove the lug nuts, the lockwashers and rings (3) from each wheel stud.

6. Remove two socket head bolts (2) from planetary carrier (4) .

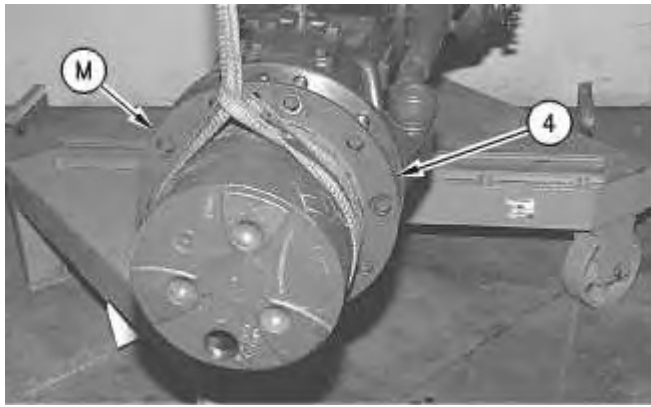


Illustration 2

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7. Fasten a lifting strap to planetary carrier (4) . Fasten an appropriate lifting device to the lifting strap.
8. Use a pry bar in each slot (M) . Use the pry bar to separate planetary carrier (4) from the hub.
9. Use the following procedure to disassemble planetary carrier (4) :



Illustration 3

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- a. Use the appropriate retaining ring pliers to remove retaining ring (6) that holds each planetary gear in position.
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