



Service Repair Manual

Models

311C and 311C U Excavator

Product: EXCAVATOR

Model: 311C EXCAVATOR PAD

Configuration: 311C U Excavator PAD00001-UP (MACHINE) POWERED BY 3064 Engine

Disassembly and Assembly 311C Excavator Machine Systems

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Final Drive and Travel Motor - Disassemble

SMCS - 4050-015; 4351-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	3
B	1P-2420	Transmission Repair Stand	1
C	8T-6699	Bolts	2
D	1P-0074	Slide Hammer Puller Gp	1
	4C-5666	Threaded Adapter	1
	123-6702	Backlash Gauge Gp	1
E	1P-0510	Driver Gp	1
F	8H-0663	Bearing Puller Gp	1
G	1P-1863	Retaining Ring Pliers	1
H	9U-7346	Spanner Wrench As	1

Start By:

- A. Remove the final drive and the travel motor as a unit. Refer to Disassembly and Assembly, "Final Drive and Travel Motor - 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, "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.

1. Thoroughly clean the outside of the travel motor and the final drive prior to disassembly.
2. Remove the sprocket from the final drive. The sprocket weighs approximately 36 kg (79 lb).
3. Put an alignment mark across the section of the travel motor and the final drive for assembly purposes. The parts must be installed in the original locations.

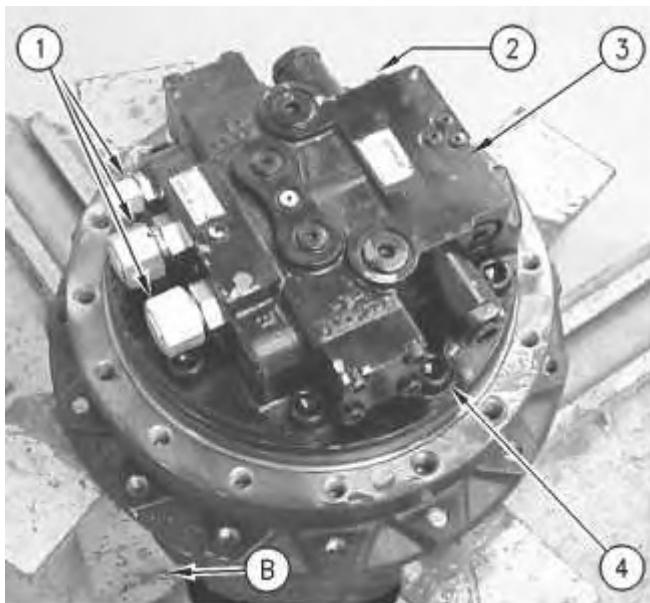


Illustration 1

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4. Use Tooling (A) and a suitable lifting device to position the final drive and the travel motor in Tooling (B) . The final drive and the travel motor together weigh approximately 200 kg (440 lb).
5. Remove fittings (1) and remove plug (2) from travel brake valve (3) .

! 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. Remove nine bolts (4) that fasten travel brake valve (3) to the final drive.
7. Use two people to remove travel brake valve (3) from the final drive. The travel brake valve weighs approximately 27 kg (60 lb).

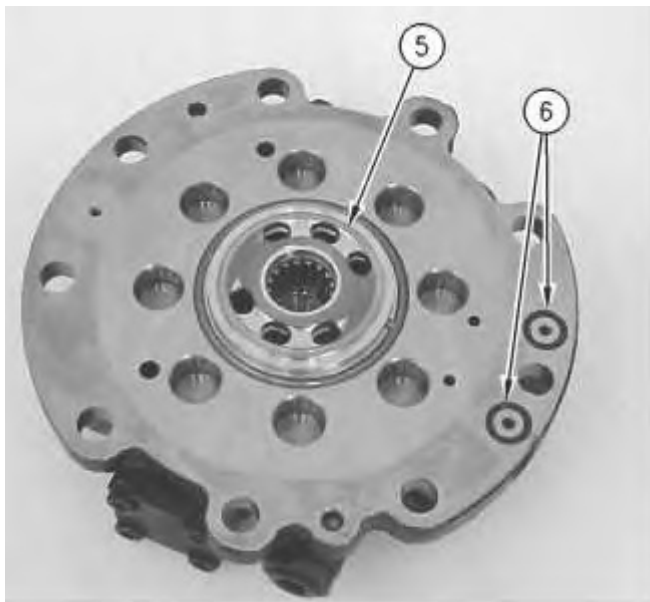


Illustration 2

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8. Remove valve plate (5) and remove O-ring seals (6) .
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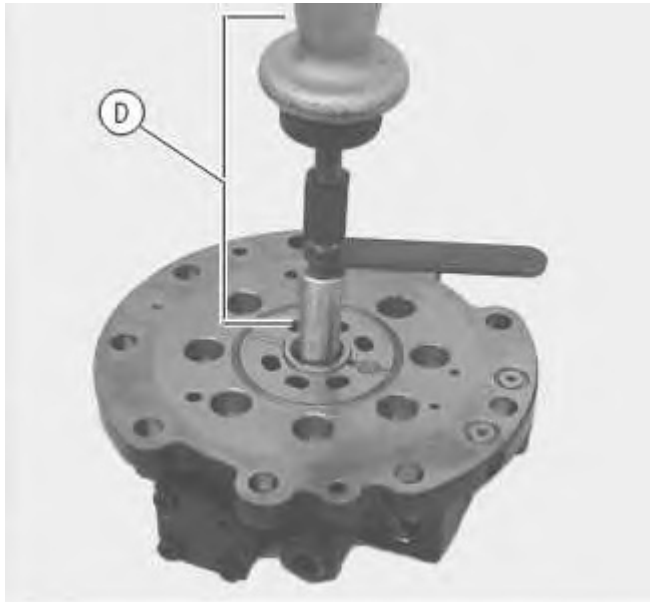


Illustration 3

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9. Use Tooling (D) to remove the bearing.

Disassembly Procedure for the Travel Brake Valve



Illustration 4

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