



Service Repair Manual

Models

349D2 Mobile Hydraulic
Excavator

Product: MOBILE HYD POWER UNIT

Model: 349D2 MOBILE HYD POWER UNIT P27

Configuration: 349D2 Mobile Hydraulic Power Unit P2700001-UP (MACHINE) POWERED BY C13 Engine

Disassembly and Assembly 345D, 349D and 349D2 Excavators and 345D MHPU and 349D MHPU Mobile Hydraulic Power Units Machine Systems

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Travel Motor - Disassemble

SMCS - 4351-015

Disassembly Procedure

Start By:

- a. Remove the travel motor. Refer to Disassembly and Assembly, "Travel Motor - Remove" .

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	3E-3879	Eyebolt	1
B	1P-0074	Slide Hammer Puller	1
C	6V-3010	Puller Group	1
D	4C-8359	Eyebolt	1
E	9S-9152	Bearing Puller	1
F	1P-1862	Pliers	1
G	1P-0510	Driver Group	1
H	1U-7600	Slide Hammer Puller	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.

NOTICE

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

To avoid damage to parts, always identify and mark the parts so that they can be installed into the same location. Never force parts during assembly. Keep parts clean and lubricated.

NOTICE

Keep all parts clean from contaminants.

Contamination of the hydraulic system with foreign material will reduce the service life of the hydraulic system components.

To prevent contaminants from entering the hydraulic system, always plug or cap the lines, fittings, or hoses as they are disconnected. Cover any disassembled components and clean them properly before assembly.

Clean the hydraulic system properly after any major component exchange or especially after a component failure, to remove any contamination.

Note: If a failure occurs, an accurate diagnosis of the cause can prevent a recurrence. Information is available to analyze failures for piston pumps and motors. Refer to Special Publication, SEBD0641, "Analyzing Axial Piston Pump and Motor Failures".

Note: Inspect all parts. If any parts are worn or damaged use new parts for replacement. The installation of used parts during reconditioning is acceptable. Reuse and salvage information is available on piston pumps. Refer to Guideline for Reusable Parts and Salvage Operations, SEBF8032, "Piston Pumps and Motors". During reconditioning, correct any conditions that might have caused the original failure.

1. Thoroughly clean the outside of the travel motor prior to disassembly. Fasten the travel motor to a suitable holding fixture in a vertical position. The weight of the travel motor is 141 kg (310 lb).



Illustration 1

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2. Remove displacement change valve (1) from the head of the travel motor.



Illustration 2

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3. Remove O-ring seals (2) and rings (3) from the displacement change valve.



Illustration 3

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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.

4. Remove plugs (5) from the head. Remove an O-ring seal from each plug.
5. Remove outer bolts (4) from the head of the travel motor.

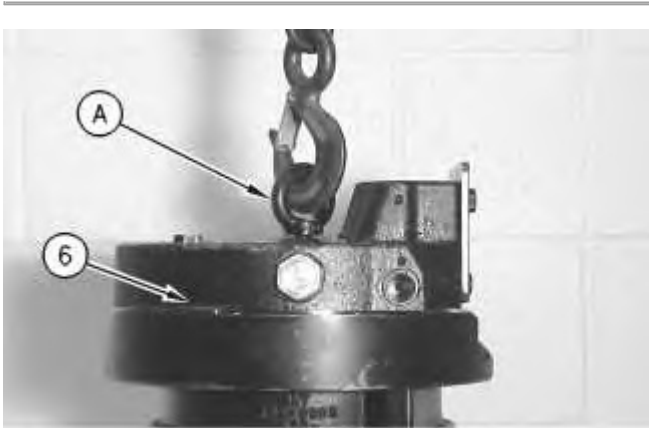


Illustration 4

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6. Use Tooling (A) and a suitable lifting device to remove the head of the travel motor from the travel motor housing. The weight of head (6) is approximately 43 kg (95 lb).

Note: There are pins (7) that may fall out of the inside of the head when the head is removed.

Note: Be careful during the removal of head (6) from the travel motor housing. Be careful not to scratch mating surfaces or damage the mating surfaces of the components.

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