



# Service Repair Manual

## **Models**

# 345B EXCAVATOR

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- A. Remove the travel motor. Refer to Disassembly and Assembly, "Travel Motor - Remove" in this manual.

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

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### 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 Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

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### 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.

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## 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.**

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**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).



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Illustration 1

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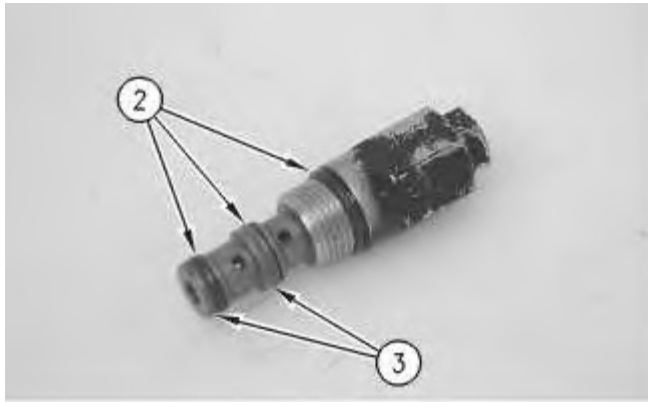


Illustration 2

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



Illustration 3

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

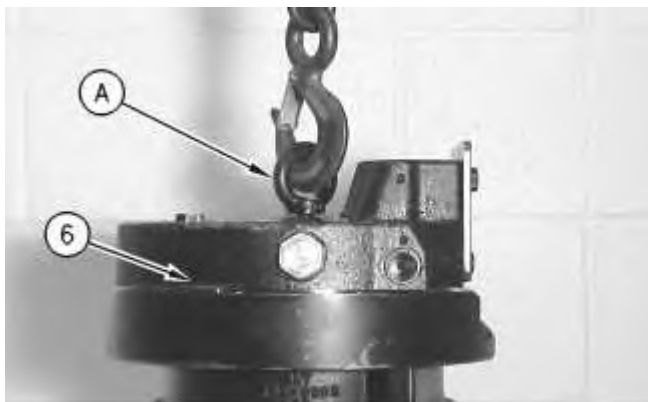


Illustration 4

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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 head weighs 43 kg (95 lb).

**Note:** There are three 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.

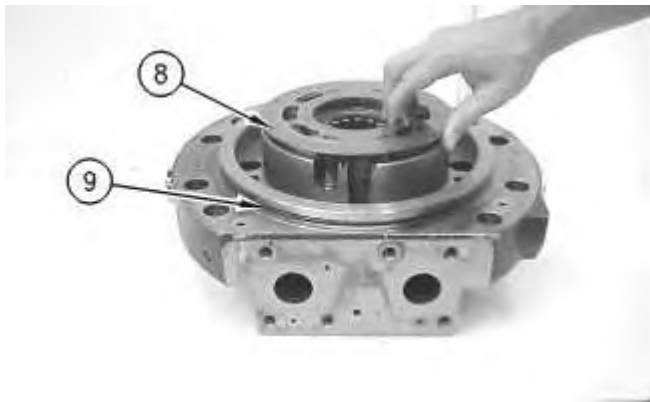


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Illustration 5

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7. Turn over the head. If three pins (7) are in the bottom side of the head, remove the pins.



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Illustration 6

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8. Remove port plate (8) and O-ring seal (9) from the head.
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