



Service Repair Manual

Models

345B and 345BL EXCAVATOR

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.

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.

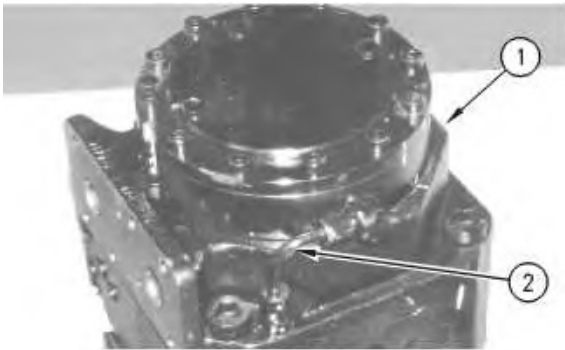


Illustration 1

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1. Thoroughly clean the outside of the travel motor prior to disassembly. Fasten travel motor (1) to Tool (A). The weight of the travel motor is 125 kg (275 lb).
2. Put an alignment mark across all housings of the travel motor for assembly purposes.
3. Disconnect tube assembly (2) .

 **WARNING**

Personal injury can result from parts and/or covers under spring pressure.

Spring force will be released when covers are removed.

Be prepared to hold spring loaded covers as the bolts are loosened.

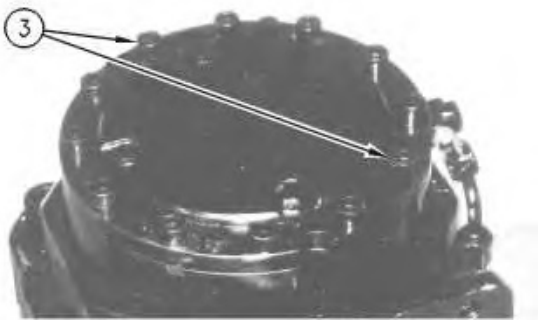


Illustration 2

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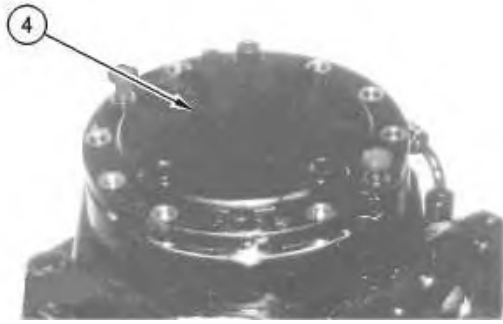


Illustration 3

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4. Remove two socket head bolts (3) from the brake cover that are 180 degrees from each other. Replace these two bolts with bolts that are slightly longer in length. The two longer bolts will retain the brake cover when the remaining socket head bolts (3) are removed.
5. Evenly remove the remaining socket head bolts (3) that hold the brake cover in position. Remove the two longer bolts (3). Remove brake cover (4) from the brake assembly.



Illustration 4

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6. If necessary, remove brake adjusting screws (5) from the brake cover.

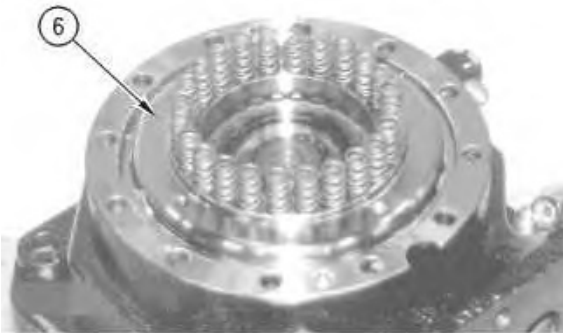


Illustration 5

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7. Remove brake assembly (6) from the head assembly.



Illustration 6

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Note: There is an inner spring and an outer spring in each spring set.

8. Remove spring sets (7) from the brake piston.



Illustration 7

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9. Turn the brake housing to the other side. Remove O-ring seal (8) .



Illustration 8

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10. Use two suitable forcing screws (9) in order to remove brake piston (10) from the brake housing.
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