



Service Repair Manual

Model

320C, 320C L, 320C LN,
320C S Excavator

Product: EXCAVATOR

Model: 320C EXCAVATOR BEA

Configuration: 320C, 320C L, 320C LN, 320C S Excavators BEA00001-UP (MACHINE) POWERED BY 3066 Engine

Disassembly and Assembly 320C Excavator Machine Systems

Media Number -REN3826-16

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i02544012

Bucket Cylinder - Remove and Install

SMCS - 5457-010

Removal Procedure



Cylinders equipped with lock valves can remain pressurized for very long periods of time, even with the hoses removed.

Failure to relieve pressure before removing a lock valve or disassembling a cylinder can result in personal injury or death.

Ensure all pressure is relieved before removing a lock valve or disassembling a cylinder.

Note: Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism.

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.

Note: Put identification marks on all lines, on all hoses, on all wires, and on all tubes for installation purposes. Plug all lines, hoses, and tubes. This helps to prevent fluid loss and this helps to keep contaminants from entering the system.

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

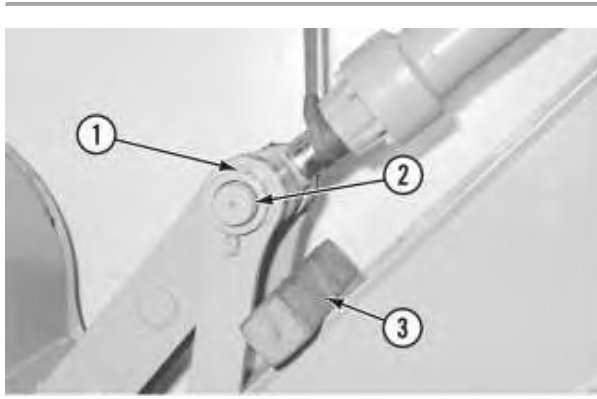


Illustration 1

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2. Fasten a suitable lifting device to the rod end of the bucket cylinder, as shown. Put suitable blocking (3) under the link assemblies as a support.
3. Remove the nuts and retaining bolt (1) . Remove pin (2) .
4. Note the location and the quantity of the shims between the power link and the idler link. Remove the shims.

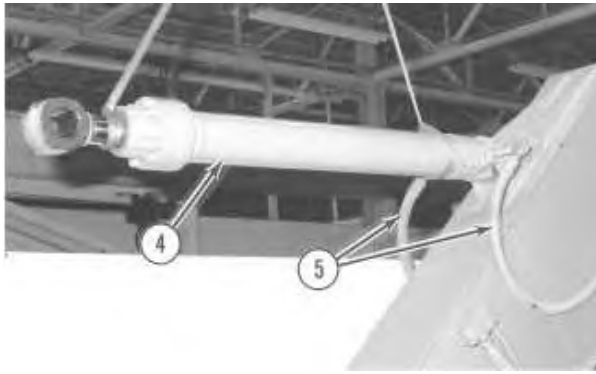


Illustration 2

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5. Raise bucket cylinder (4) until bucket cylinder (4) is level. Fasten a suitable lifting device to the head end of bucket cylinder (4) , as shown. Disconnect hose assemblies (5) .

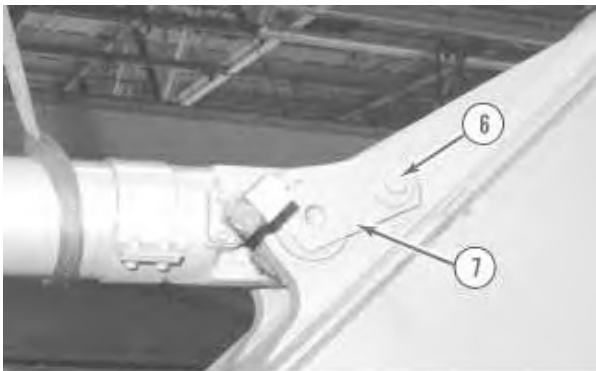


Illustration 3

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6. Remove retaining bolt (6) , pin assembly (7) , and the spacer. Remove the bucket cylinder. The weight of the bucket cylinder is approximately 150 kg (330 lb).
7. Note the location and the quantity of shims on both sides of the bucket cylinder at the stick pin. Remove the shims.

Disassembly and Assembly Information

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	127-4904	Hydraulic Cylinder Repair Stand Gp	1
	1P-0520	Driver Gp	1
	9U-7868	Spanner Wrench	1
	127-8064	Adapter Plate Gp	1
	195-4609	Seal Pick	1
B	4C-4032	Bearing Mount Compound	1

**WARNING**

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Ensure all pressure is relieved before removing a lock valve or disassembling a cylinder.

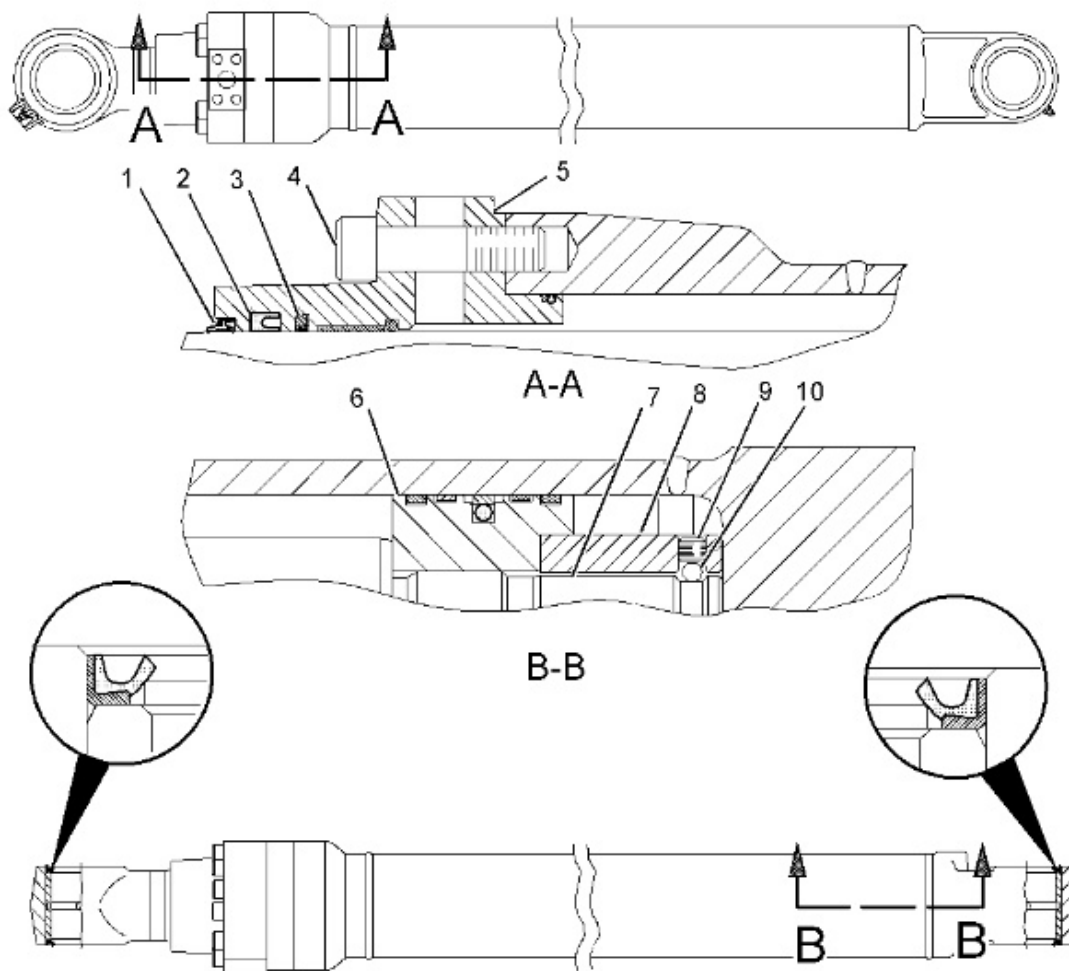


Illustration 4

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Note: Apply a light film of hydraulic oil to all components before assembly.

1. Apply Tooling (B) to seal (1) prior to assembly.

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