



Service Repair Manual

Model

321D LCR EXCAVATOR

Product: EXCAVATOR

Model: 321D LCR EXCAVATOR KBZ

Configuration: 321D LCR Excavator KBZ00001-UP (MACHINE) POWERED BY C6.4 Engine

Disassembly and Assembly 321D LCR Excavator Machine Systems

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i02700167

Boom - Remove

SMCS - 6501-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8S-7640	Stand	2
	8S-7631	Tube	2
	8S-8048	Saddle	2
	8S-7615	Pin	2
B	3S-6224	Electric Hydraulic Pump (115 Volt) ⁽¹⁾	1
	141-1785	Receiving Sleeve	1
	137-8460	Puller Stud	1
	9U-5346	Nut	1
	6V-3175	Hydraulic Cylinder	1

⁽¹⁾ 8S-8033 Electric Hydraulic Pump (230 Volt) is available.

Start By:

- Remove the stick. Refer to Disassembly and Assembly, "Stick - Remove".
- Release hydraulic system pressure. Refer to Disassembly and Assembly, "Hydraulic System Pressure - Release".

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.

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.



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.

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1. Drain the hydraulic oil into a suitable container for storage or disposal. Refer to Operation and Maintenance Manual, "Hydraulic System Oil - Change".
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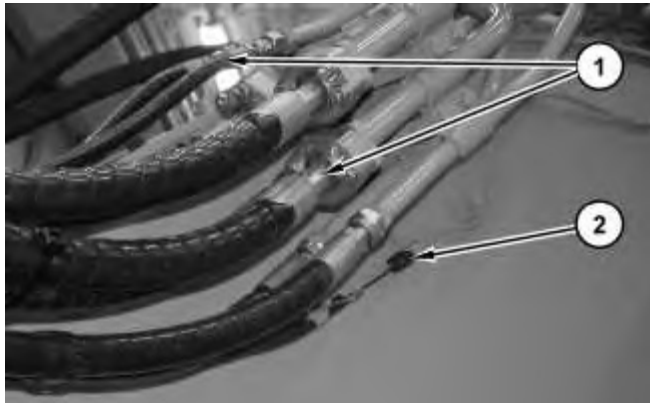


Illustration 1

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2. Disconnect hose assemblies (1) and disconnect harness assembly (2) .

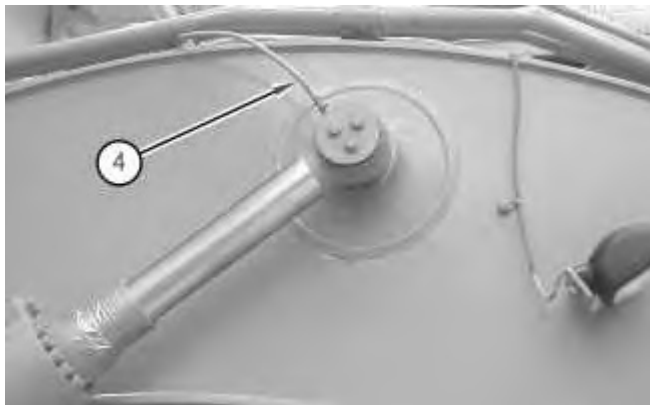
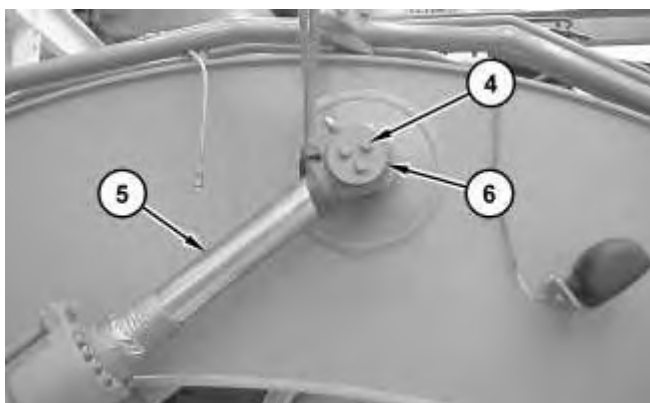


Illustration 2

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3. Disconnect lubrication hose assembly (3) .

Note: Put a plug in the end of the hose assembly. Put a cap on the fitting. This will help to prevent fluid loss. This will help also keep contaminants out of the lubrication system.



4. Attach a suitable lifting device to boom cylinder (5). The weight of boom cylinder (5) is approximately 285 kg (630 lb).
5. Remove bolts (4) and remove retainer plate (6) .



Illustration 4

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6. Remove spacer (7) .

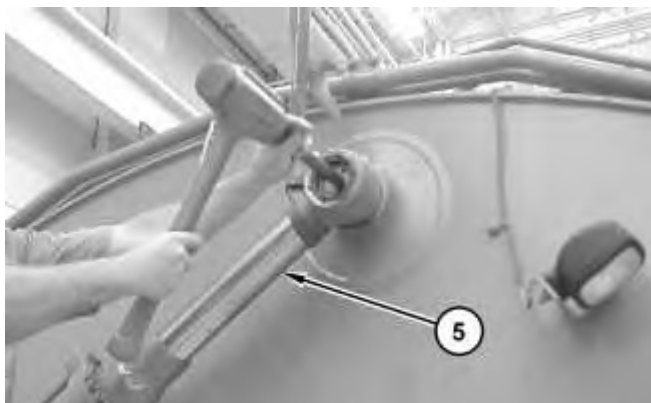


Illustration 5

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7. Use a hammer and a punch to remove the pin from the rod end of boom cylinder (5) .
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