



# Service Repair Manual

## **Models**

320D and 320D L Excavator

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Product: EXCAVATOR

Model: 320D EXCAVATOR JGZ

Configuration: 320D & 320D L Excavators JGZ00001-UP (MACHINE) POWERED BY 3066 Engine

## Disassembly and Assembly 320D Excavator Machine Systems

Media Number -REN8614-14

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i07316669

# Boom Cylinder - Remove and Install

SMCS - 5456-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	4C-9485	Pin Driver Cap	1



## WARNING

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.

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## NOTICE

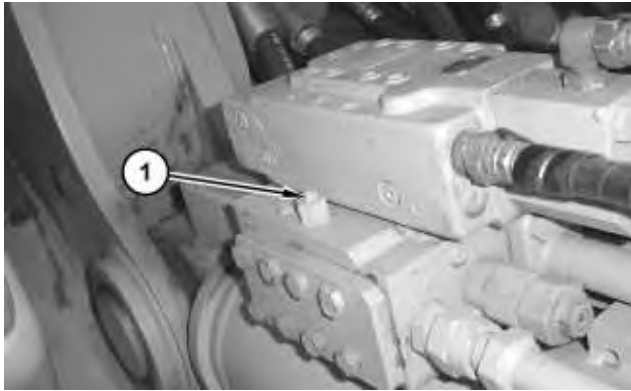
Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting, and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

**Refer to Special Publication, NENG2500, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat<sup>®</sup> products.**

**Dispose of all fluids according to local regulations and mandates.**

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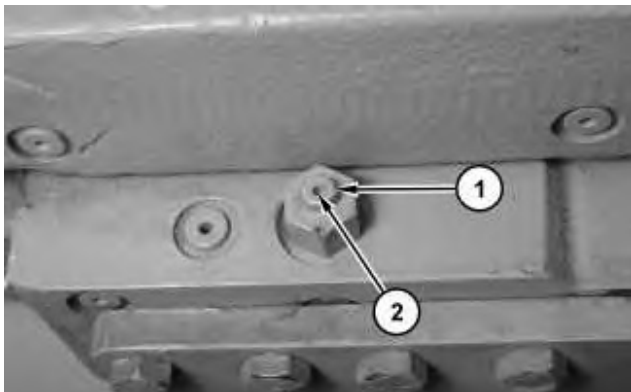
1. Fully extend the bucket cylinder. Fully extend the stick cylinder. Lower the boom until the stick assembly is in contact with the ground.
  2. Release the pressure in the hydraulic system. Refer to Disassembly and Assembly, "Hydraulic System Pressure - Release".
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Illustration 1

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Illustration 2

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3. Loosen nut (1). Turn bolt (2) counterclockwise to release the pressure in the cylinder.
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Illustration 3

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4. Remove bolts (3).

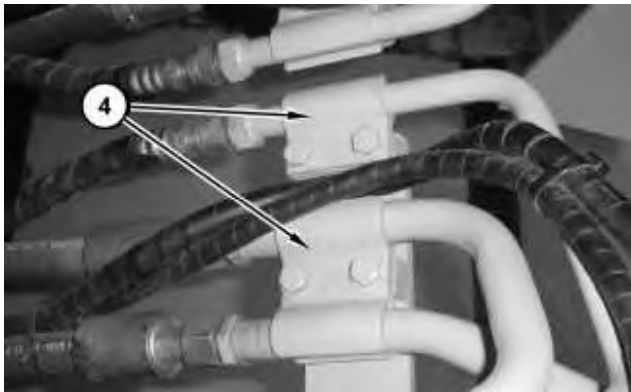


Illustration 4

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5. Remove clamps (4).

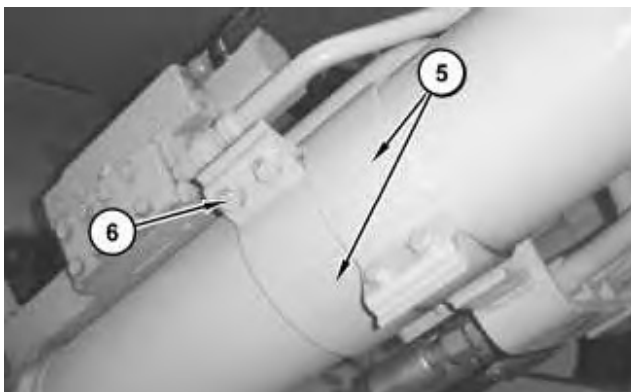
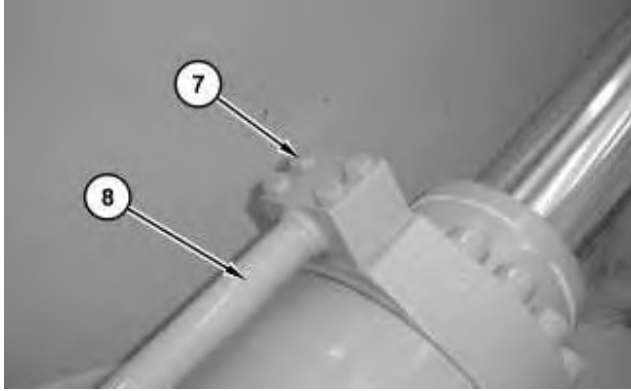


Illustration 5

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6. Remove bolts (6) and support assemblies (5).

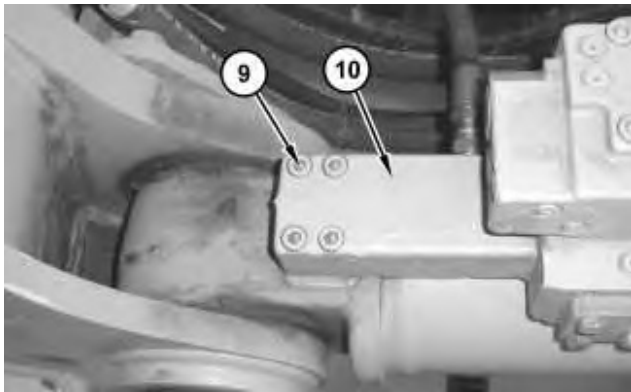


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Illustration 6

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7. Remove bolts (7) and reposition tube assembly (8) out of the way.

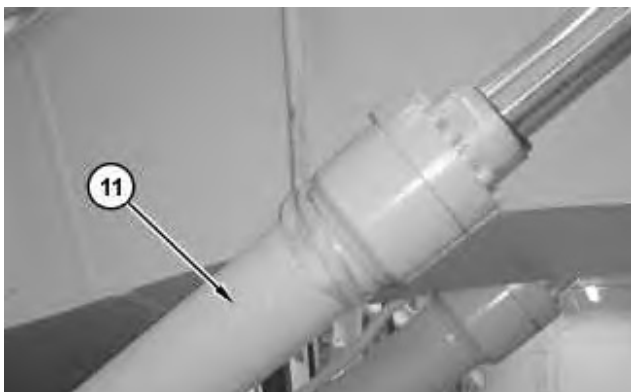


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Illustration 7

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8. Remove bolts (9) and reposition valve assembly (10) out of the way.



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Illustration 8

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9. Attach a suitable lifting device to boom cylinder (11). The weight of boom cylinder (11) is approximately 287 kg (632 lb).
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