



# Service Repair Manual

## **Models**

# M322C WHEELED Excavator

---

Product: WHEELED EXCAVATOR

Model: M322C WHEELED EXCAVATOR H2G

Configuration: M322C Excavator H2G00001-UP (MACHINE) POWERED BY 3056E Engine

## Disassembly and Assembly M318C and M322C Excavators Machine Systems

Media Number -REN9213-02

Publication Date -01/12/2006

Date Updated -05/12/2006

i02370681

# Boom Cylinder - Remove and Install

SMCS - 5456-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-5344	Puller Stud M30 x 3.5	1
	9U-5346	Nut M30 x 3.5	1
	6V-4035	Sleeve	1
	6V-3175	Hydraulic Cylinder Gp	1
	3S-6224	Electric Hydraulic Pump Gp	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.**

---

 **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.**

---

**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.**

---

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



Illustration 1

g01185348

1. Position boom (1) on suitable cribbing.
2. Release the hydraulic system pressure. Refer to Disassembly and Assembly, "Hydraulic System Pressure - Release".

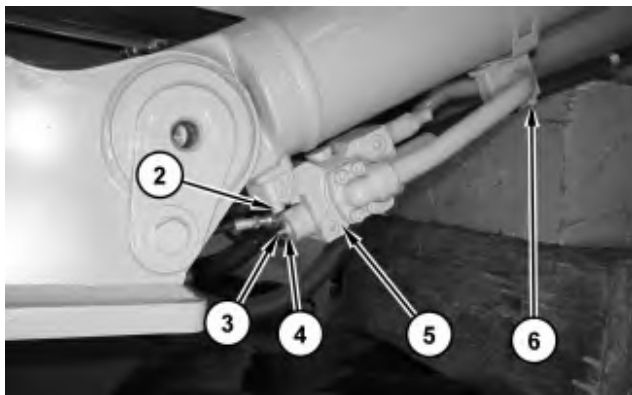


Illustration 2

g01185349

3. Loosen nut (4) and turn screw (3) clockwise in order to release the pressure in valve assembly (5) .
  4. Remove bolts (2) and (6). Reposition valve assembly (5) .
-

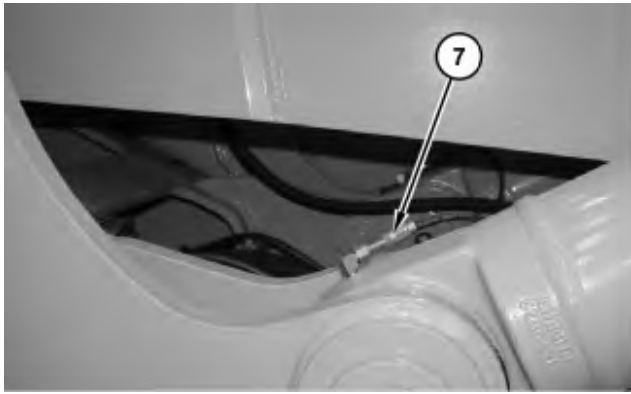


Illustration 3

g01185350

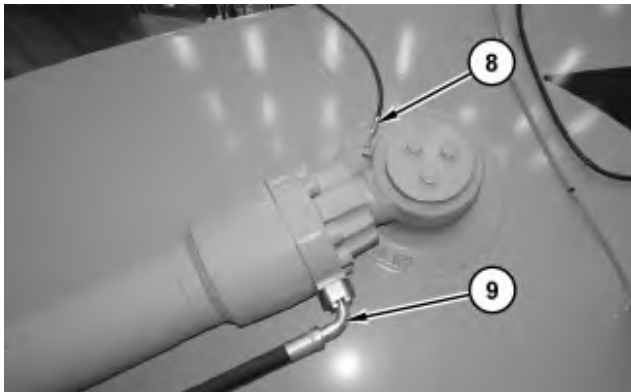


Illustration 4

g01185351

5. Disconnect grease hose assemblies (7) and (8). Disconnect hose assembly (9) .

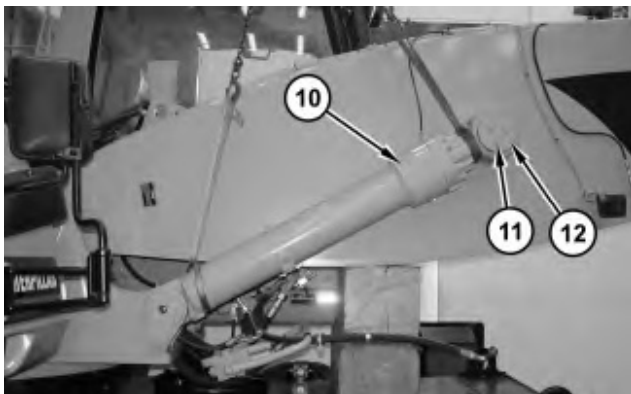


Illustration 5

g01185352

6. Attach a suitable lifting device to boom cylinder (10). The weight of boom cylinder (10) is approximately 213 kg (470 lb).
7. Remove bolts (11) and plate (12) .

Thank you so much for reading.  
Please click the “Buy Now!”  
button below to download the  
complete manual.



After you pay.

You can download the most  
perfect and complete manual in  
the world immediately.

Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)