

## Disassembly and Assembly

### 215C & 219 EXCAVATORS VEHICLE SYSTEMS

Media Number -SEN3568-01

Publication Date -01/10/2005

Date Updated -18/06/2015

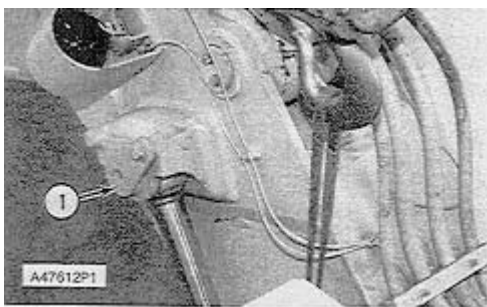
SEN35680056

## Boom Cylinders

SMCS - 5456-015; 5456-016; 5456-011; 5456-012

### Remove Boom Cylinders

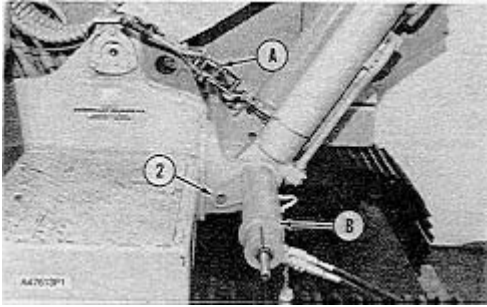
Tools Needed		A	B	C
8S9906	Ratchet Puller	1		
5P7288	Sleeve		1	
9S5559	Stud		1	1
7F9540	Hydraulic Puller		1	
5P6581	Adapter		1	1
1P543	Nut		1	1
3S6224	Electric Hydraulic Puller		1	1
5P2997	Hydraulic Puller			1



1. Close the bucket and put the stick and bucket under the foreboom.
2. Fasten a hoist to the cylinder. Remove the bolt and pin (1) from the boom. If the pin is difficult to remove use tooling (B).
3. Operate the machine and move the boom cylinder rod into the cylinder far enough to let the cylinder rod end be removed. Lower the cylinder.

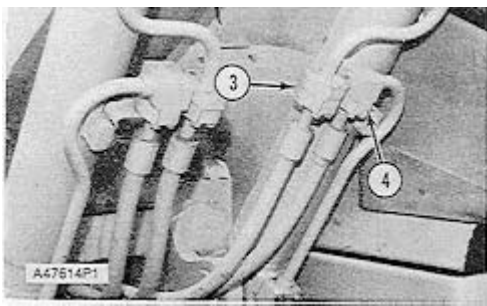
**NOTE:** If both cylinders are to be removed follow Steps 2 and 3 for the other cylinder before any oil lines are disconnected.

4. Open the bleed screws to release oil pressure in the boom circuit. See the topic, Release Oil Pressure In Main System, in the Testing And Adjusting Manual.

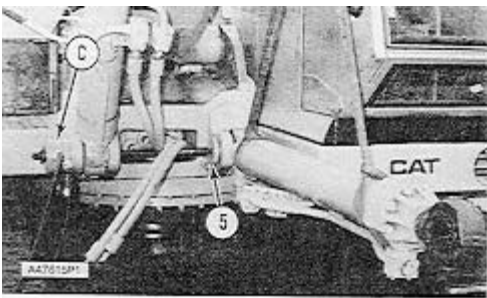


5. Fasten tool (A) to the boom cylinder. Remove the bolt that holds the pin.

6. Remove pin (2). If the pin is difficult to remove, use tooling (B).



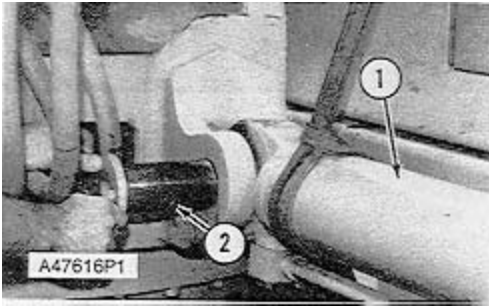
7. Disconnect hose assemblies (3) and (4) from the left boom cylinder. Lower the cylinder and make the undercarriage a support for it.



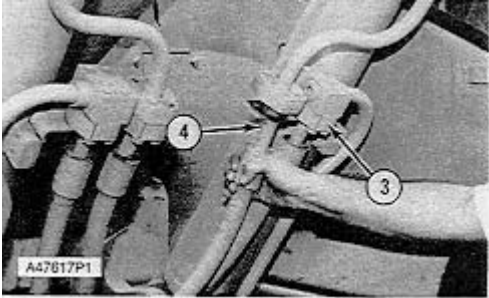
8. Fasten a hoist to the left boom cylinder. Remove the bolt that holds pin (5). Remove pin (5) with tooling (C). Remove the cylinder. The weight of the cylinder is 142 kg (315 lb).

## Install Boom Cylinder

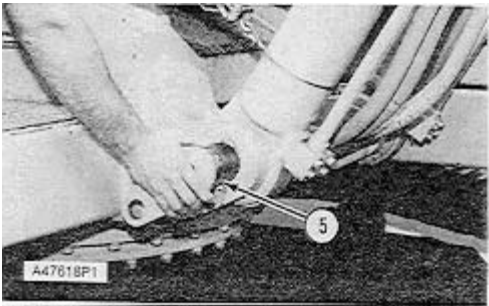
Tools Needed		A	B
8S9906	Ratchet Puller	1	
5P6581	Adapter		1
9S5563	Cap-Pin Driver		1



1. Fasten a hoist and put cylinder (1) in position on the machine. Install pin (2) and the bolt that holds the pin in place.

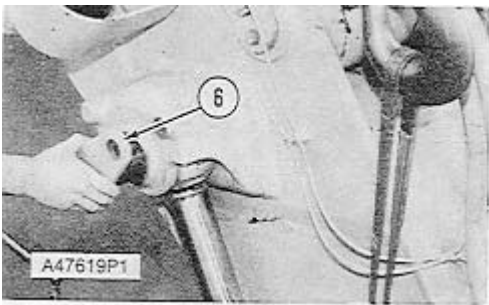


2. Connect hose assemblies (3) and (4) to the left boom cylinder.



3. Install pin (5) in the right boom cylinder. If the pin is difficult to install by hand, use tooling (B). Install the bolt that holds the pin in place.

4. Start the machine and move the rod out of the boom cylinder until the pin hole in the rod is in alignment with the pin hole in the boom.



5. Install pin (6) in the rod end. If the pin is difficult to install by hand, use tooling (B). Install the bolt that holds the pin in place. Remove tool (A).

6. Fill the hydraulic tank to the correct level.