

Product: TRACK-TYPE TRACTOR

Model: D4B TRACK-TYPE TRACTOR 1SG

Configuration: D4B TRACTOR - SPECIAL APPLICATION / POWER SHIFT / 1SG00001-UP (MACHINE) POWERED BY 3204 ENGINE

## Disassembly and Assembly D4B TRACTOR & 935B TRACK-TYPE LOADER VEHICLE SYSTEMS

Media Number -SEN3495-00

Publication Date -01/03/1987

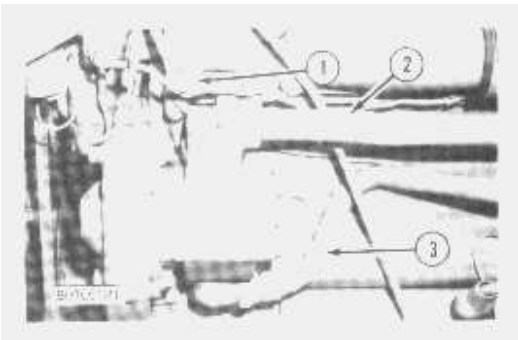
Date Updated -11/10/2001

### Hydraulic Pump

SMCS - 5073-017; 5073-010

### Remove and Install Hydraulic Pump

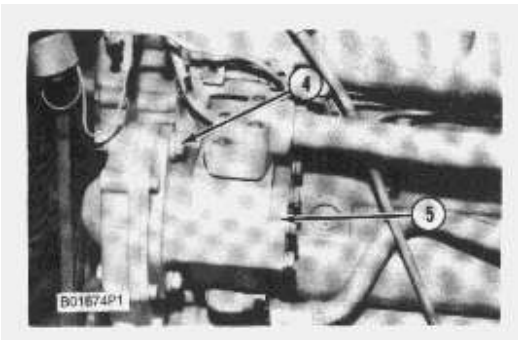
1. Drain the oil from the hydraulic tank. Remove the engine side panel on the left side of the machine.



2. Remove bolt (1) that holds the clip in place. Bolt (1) must be removed to make clearance to remove one of the bolts that hold oil outlet line (2) to the pump.

3. Disconnect outlet oil line (2) from the pump.

4. Disconnect inlet oil line (3) from the pump.



5. Remove two nuts (4) and bolts that hold the pump to the timing gear plate. Remove pump (5). Remove the gasket.

**NOTE:** The following steps are for installation of the hydraulic pump.

6. Put the gasket in place and install the pump on the timing gear cover.
7. Connect outlet oil line (2) to the pump. Install bolt (1) that holds the clip in place.
8. Connect inlet oil line (3) to the pump.
9. Install the engine side panel on the left side of the machine.
10. Fill the hydraulic tank with oil to the correct level. See the Maintenance Guide.

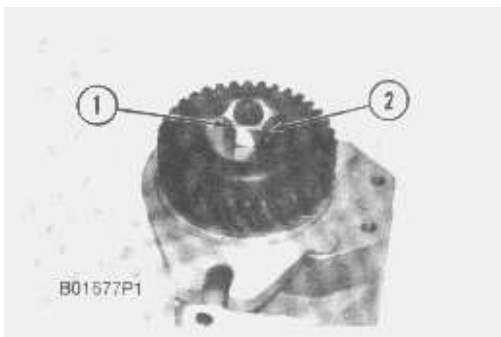
## Disassemble And Assemble Hydraulic Pump

Tools Needed		A	B	C
8H684	Ratchet Box Wrench	1		
8B7548	Puller Assembly	1		
9S9155	Step Plate	1		
8B7551	Bearing Puller Attachment	1		
8B7750	Leg	2		
1P1858	Pliers		1	
1P510	Driver Group			1

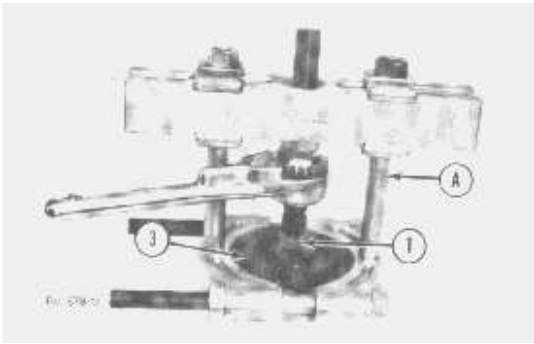
Start By:

- a. remove hydraulic pump

**NOTE:** Be sure the outside of the pump is clean before disassembly. Put a mark on the outside of the pump sections for correct assembly.



1. Bend lock (2) down. Remove nut (1) and lock (2).



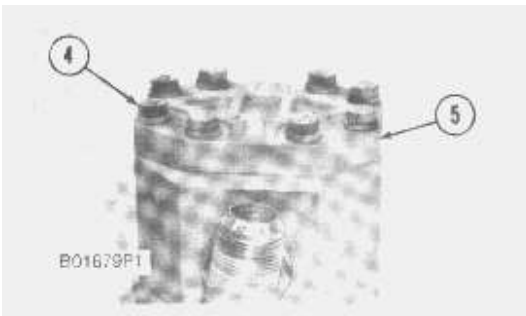
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## NOTICE

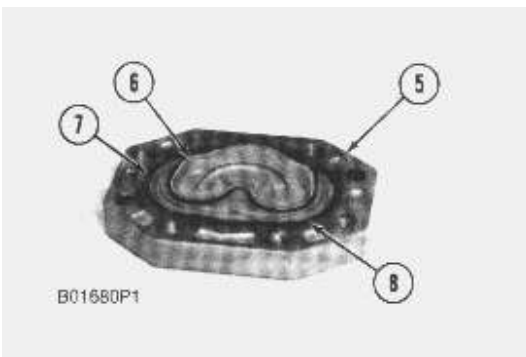
**Do not remove gear (3) with tooling (A) unless nut (1) is installed.**

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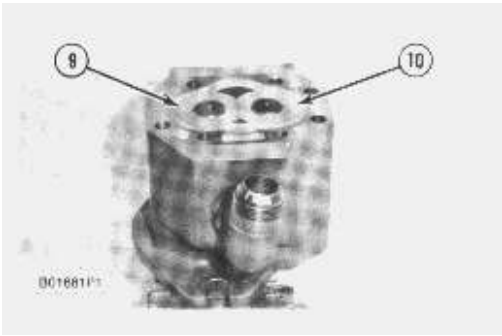
**2.** Install nut (1) until it is even with the end of the shaft. Use tooling (A) and loosen gear (3) from the taper on the shaft. Remove tooling (A), nut (1) and gear (3).



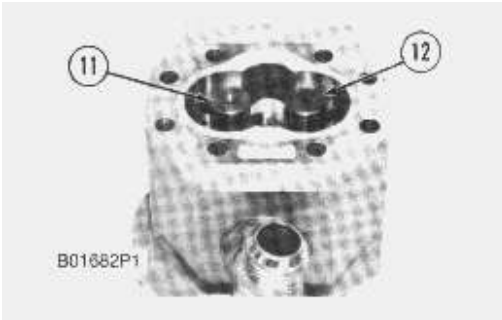
**3.** Remove bolts (4) that hold the pump together. Remove end cover (5).



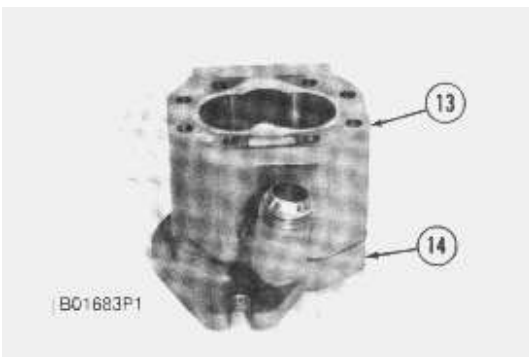
**4.** Remove seals (6), (7) and (8) from end cover (5).



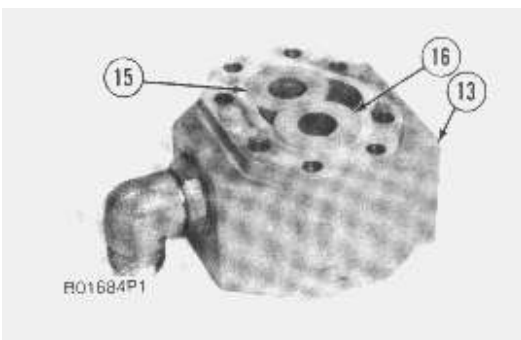
5. Remove bushings (9) and (10) from the pump body.



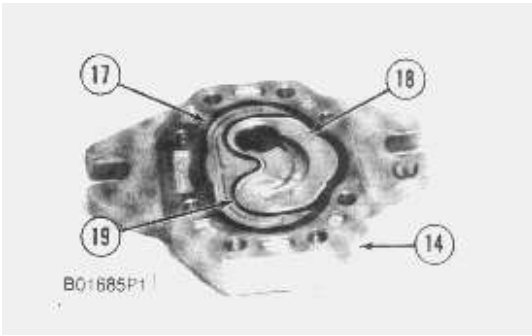
6. Remove gears (11) and (12) from the pump body.



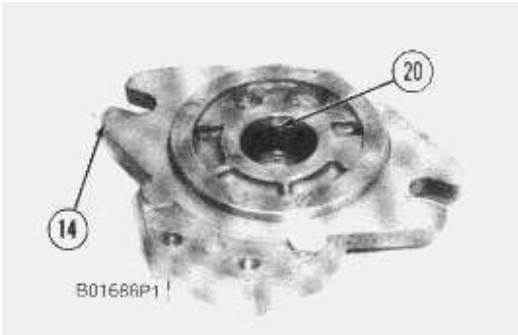
7. Remove pump body (13) from flange (14).



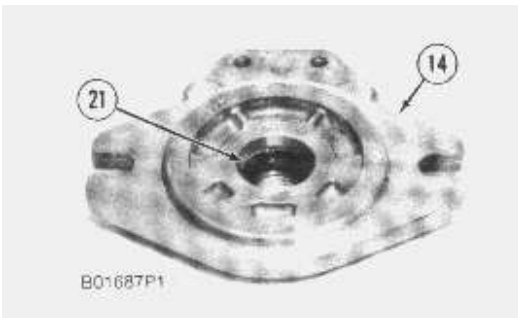
8. Turn the pump body over. Remove bushings (15) and (16) from pump body (13).



9. Remove seals (17), (18) and (19) from flange (14).



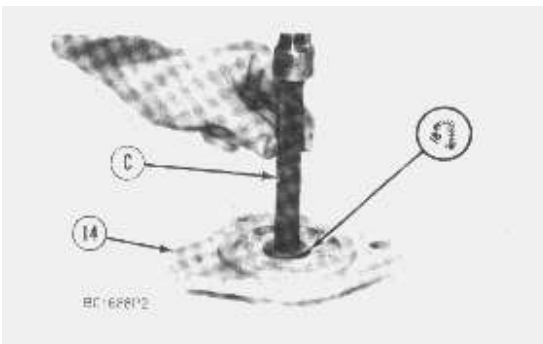
10. Turn flange (14) over. Use tool (B) and remove snap ring (20).



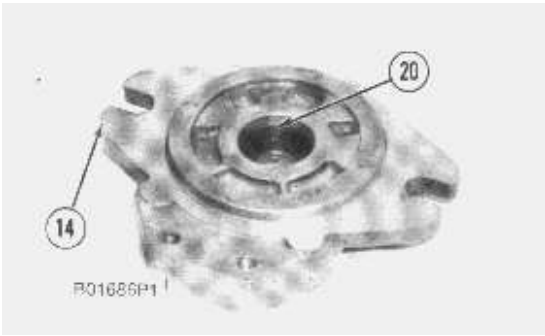
11. Remove lip type seal (21) from flange (14).

**NOTE:** The following steps are for assembly of the hydraulic pump.

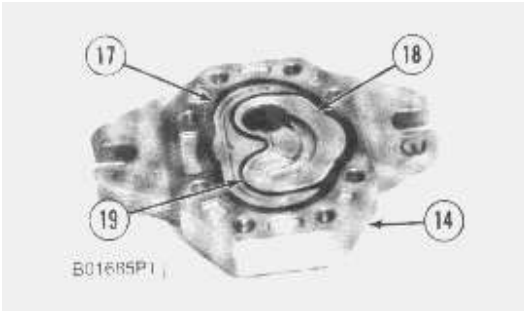
12. Make sure all of the parts of the hydraulic pump are clean. Put clean oil on all of the parts. Inspect all seals for damage and make a replacement if necessary.



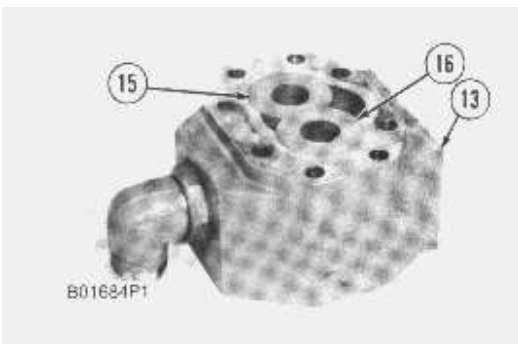
13. Use tool (C) and install the lip type seal (21) in flange (14) with the lip of the seal toward the inside of the pump.



**14.** Use tool (B) and install snap ring (20) that holds the lip type seal in place.

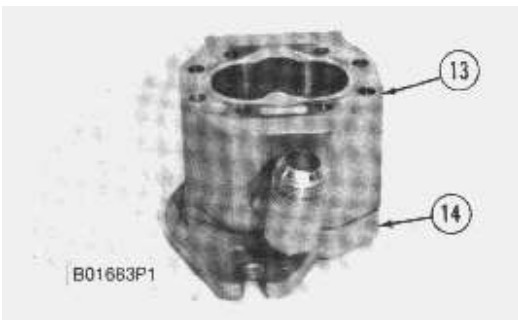


**15.** Install seals (17), (18) and (19) on flange (14) as shown.

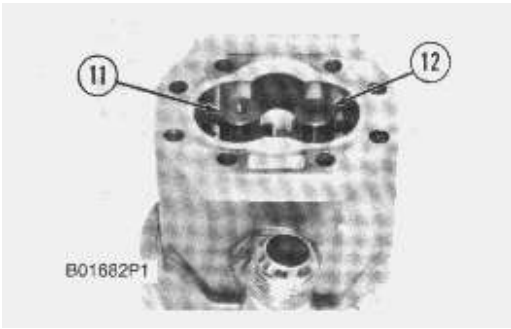


**NOTE:** If necessary, lower the temperature of bushings (15) and (16) for easier installation.

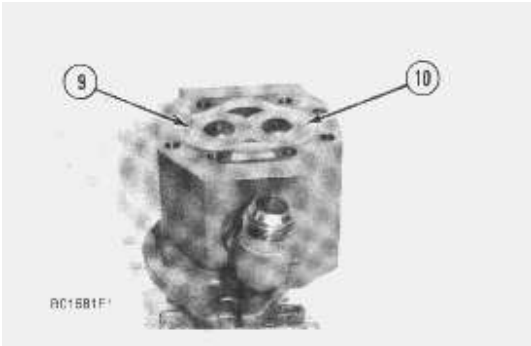
**16.** Install bushings (15) and (16) in their original positions in pump body (13).



**17.** Turn the pump body over and put pump body (13) in its original position on flange (14).

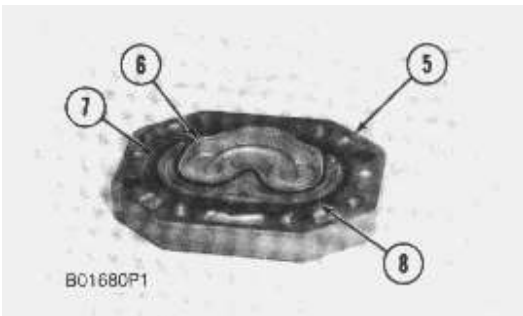


**18.** Install gears (11) and (12) in the pump body.

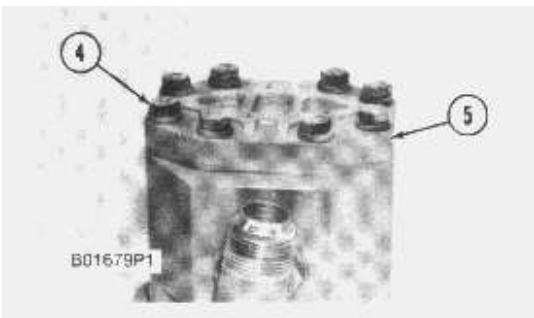


**NOTE:** If necessary, lower the temperature of bushings (9) and (10) for easier installation.

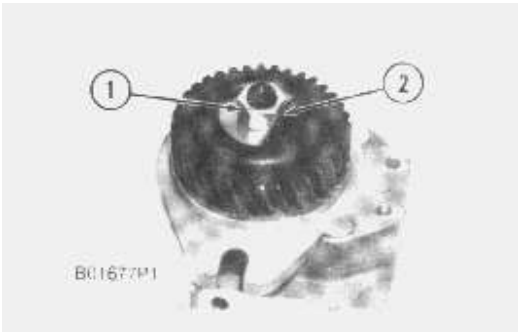
**19.** Install bushings (9) and (10) in their original positions in the pump body.



**20.** Install seals (6), (7) and (8) on end cover (5).



**21.** Put end cover (5) in its original position on the pump body. Install bolts (4) that hold the pump together.



**22.** Turn the pump over. Put the gear in place on the shaft. Install lock (2) and nut (1). Tighten nut (1) to a torque of  $68 \pm 7 \text{ N}\cdot\text{m}$  ( $50 \pm 5 \text{ lb}\cdot\text{ft.}$ ). Bend the lock up.

End By:

**a.** install hydraulic pump

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Media Number -SEN3495-00

Publication Date -01/03/1987

Date Updated -11/10/2001

### Lift Cylinders (D4B)

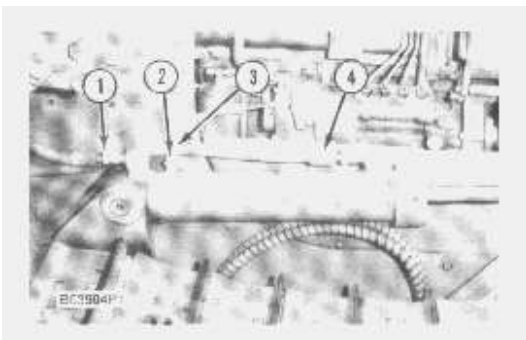
SMCS - 5102-010

### Remove And Install Lift Cylinders (D4B)

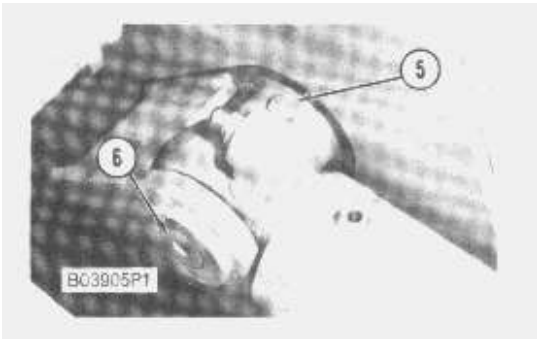
Tools Needed		A
8B7559	Adapter	1
1P74	Slide Hammer	1

### WARNING

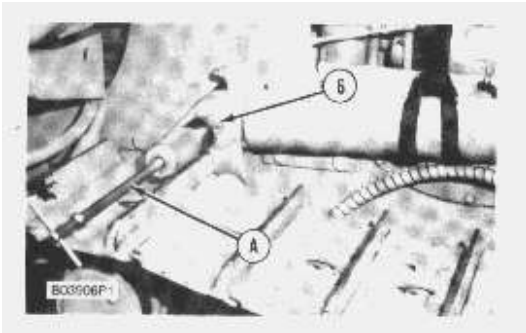
Stop the engine, lower the blade to the ground, move control levers backward and forward to release the pressure in the hydraulic system. Slowly, loosen the cap to release any pressure in the hydraulic tank. Let the hydraulic oil become cool before any lines are disconnected in the hydraulic system.



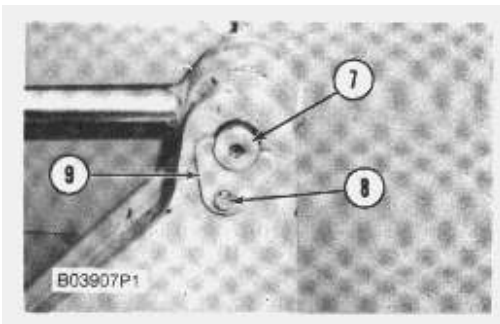
1. Remove bolt (2) that holds clamp (3) to the lift cylinder. Disconnect oil lines (1) and (4) from the lift cylinder.



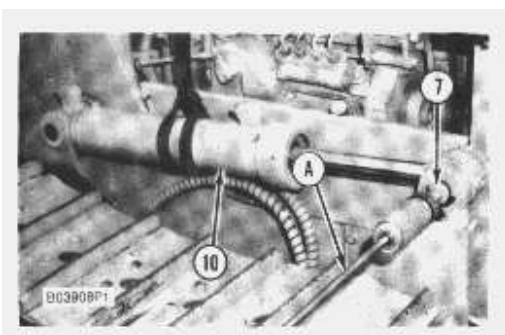
2. Remove bolt (5) and nut that holds pin (6) for the head end of the lift cylinder in the frame.



3. Fasten a hoist to the lift cylinder. Use tool (A) and remove pin (6).



4. Remove bolt (8) and retainer (9) that hold pin (7) for the rod end of the lift cylinder in the C-frame.



5. Use tool (A) and remove pin (7). Remove lift cylinder (10). The weight is 29 Kg (65 lb.).

**NOTE:** The following steps are for installation of the lift cylinders.

6. Fasten a hoist to the lift cylinder. Put lift cylinder in position on the machine.

- 7.** Make an alignment of the hole in pin (6) with the hole in the frame. Install pin (6) that holds the head end of the cylinder in the frame. Install bolt (5) and nut that hold pin (6) for the head end of the lift cylinder in the frame.
  - 8.** Install pin (7) that holds the rod end of the lift cylinder in the C-frame. Install the retainer (9) and bolt (8) that hold pin (7) for the rod end of the lift cylinder in the C-frame.
  - 9.** Connect oil line (4) to the lift cylinder. Install bolt (2) and clamp (3). Connect oil line (1) to the lift cylinder.
  - 10.** Fill the hydraulic system with oil to the correct level. See the Maintenance Guide.
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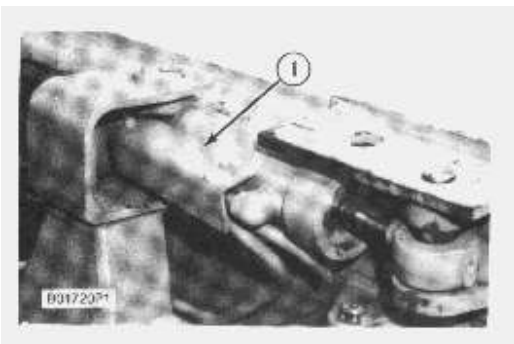
### Tilt Cylinder (D4B)

SMCS - 5104-010

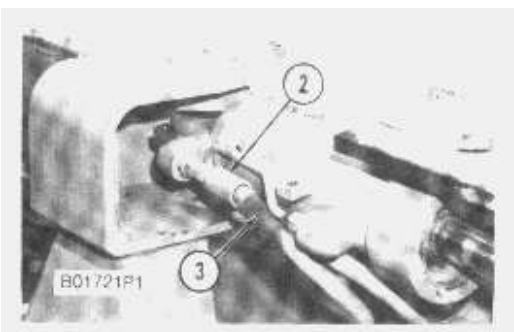
### Remove And Install Tilt Cylinder (D4B)



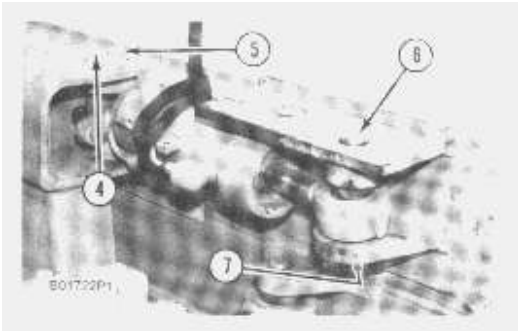
Stop the engine, lower the blade to the ground, move control levers forward and backward to release the pressure in the hydraulic system. Slowly, loosen the cap to release any pressure in the hydraulic tank. Let the hydraulic oil become cool before any lines are disconnected in the hydraulic system.



1. Remove guard (1) from the tilt cylinder.

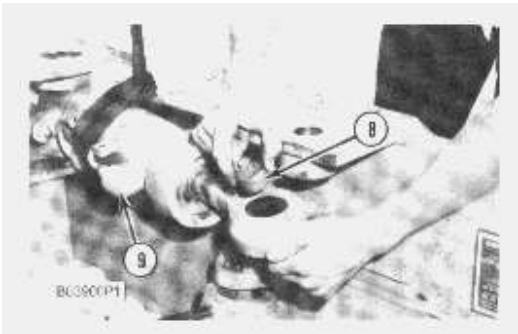


2. Disconnect oil lines (2) and (3) from the tilt cylinder.



3. Fasten a hoist to the tilt cylinder. Remove the bolt and retainer (4) that hold pin (5) for the head end of the tilt cylinder in the bracket of the C-frame. Remove pin (5).

4. Remove the bolt and retainer (7) (not shown) that hold pin (6) for the rod end of the tilt cylinder in to the blade. Remove pin (6).



5. Slide the rod end of the tilt cylinder (9) from the blade and remove spacers (8) from each side. Remove tilt cylinder (9). The weight is 27 Kg. (60 lb.).

**NOTE:** The following steps are for installation of the tilt cylinder.

6. Fasten a hoist to the tilt cylinder (9). Put the head end of tilt cylinder (9) in position. Put spacers (8) on each side of the rod end and put the rod end in position on the blade.

7. Install pin (6) that holds the rod end of the tilt cylinder to the blade. Install the retainer and bolt (7), that hold pin (6) for the rod end of the tilt cylinder in place.

8. Install pin (5) that holds the head end of the tilt cylinder in place. Install the retainer and bolt (4) that hold pin (5) for the head end of the lift cylinder in the bracket of the C-frame.

9. Connect oil lines (2) and (3) to the tilt cylinder.

10. Install guard (1) for the tilt cylinder.

11. Fill the hydraulic system with oil to the correct level. See the Operation and Maintenance Guide.

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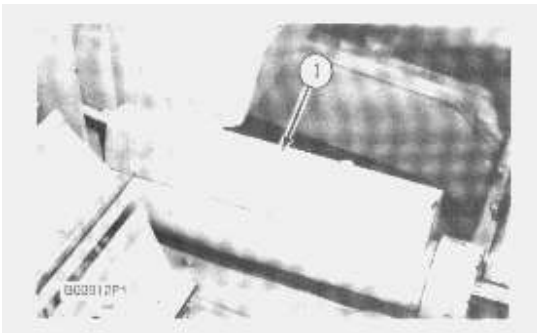
### Blade Angling Cylinders (D4B)

SMCS - 5101-010

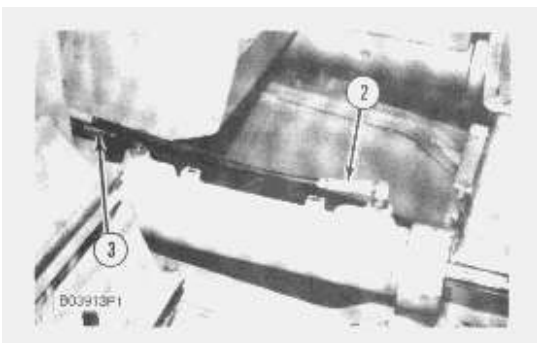
### Remove And Install Blade Angling Cylinders (D4B)



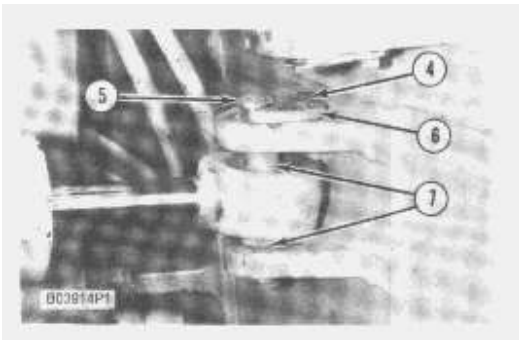
**Stop the engine, lower the blade to the ground, move control levers backward and forward to release the pressure in the hydraulic system. Slowly, loosen the cap to release any pressure in the hydraulic tank. Let the hydraulic oil become cool before any lines are disconnected in the hydraulic system.**



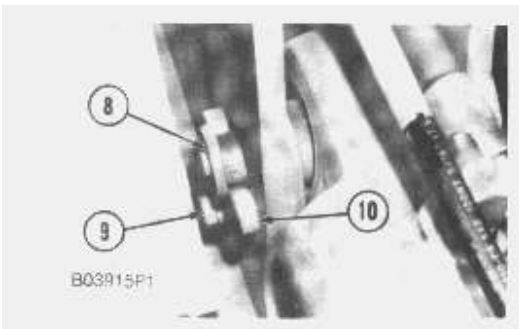
1. Remove guard (1) from the angling cylinder.



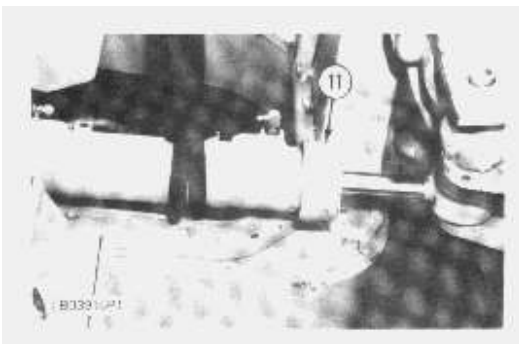
2. Disconnect oil lines (2) and (3) from the angling cylinder. Fasten a hoist to the angling cylinder.



3. Remove bolt (4) and retainer (6) that hold pin (5) for the rod end of the angling cylinder to the blade. Remove pin (5). Remove spacers (7).



4. Remove bolt (9) and retainer (10) that hold pin (8) for the head end of the angling cylinder to the C-frame. Remove pin (8).



5. Remove angling cylinder (11). The weight is 29 Kg (65 lb.).

**NOTE:** The following steps are for installation of the blade angling cylinders.

6. Fasten a hoist to the angling cylinder. Put angling cylinder (11) in position in the C-frame and blade.

7. Install pin (8) that holds the head end of the angling cylinder in the C-frame. Install retainer (10) and bolt (9) that hold pin (8) for the head end of the angling cylinder in the C-frame.

8. Install spacers (7). Install pin (5) that holds the rod end of the angling cylinder in the blade. Install retainer (6) and bolt (4) that hold pin (5) for the rod end of the angling cylinder in the blade.

9. Connect oil lines (2) and (3) to the angling cylinder.

10. Install guard (1) to the angling cylinder.

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