



# Service Repair Manual

## **Models**

D25D, D30D, D350D  
ARTICULATED TRUCK

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Product: ARTICULATED TRUCK

Model: D30D ARTICULATED TRUCK 3AJ

Configuration: D25D, D30D, D350D ARTICULATED TRUCK 3AJ00001-00414 (MACHINE) POWERED BY 3306 ENGINE

## Disassembly and Assembly

### D25D,D30D AND D350D ARTICULATED DUMP TRUCKS VEHICLE SYSTEMS

Media Number -SEN8210-01

Publication Date -01/03/2005

Date Updated -05/12/2017

SEN82100014

## Primary Hydraulic Pump

SMCS - 5073-010; 5073-015; 5073-016

## Remove & And Install Primary Hydraulic Pump

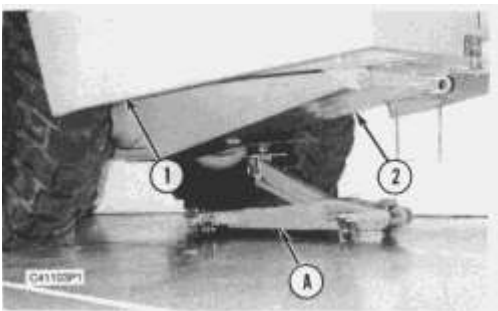
Tools Needed	A
OTC 1790 Transmission Jack	1



**WARNING**

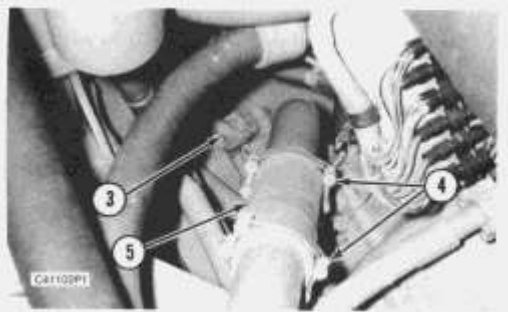
To prevent personal injury release the pressure from the hydraulic system before any lines are removed or disconnected.

**NOTE:** Put identification on all lines, hoses and tubes for installation purposes.



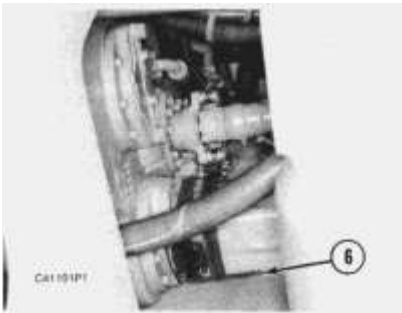
1. Drain the hydraulic fluid from the hydraulic tank.
2. Put tool (A) in position under the guard (2).

3. Remove two rear guard bolts (1) and then lower the guard (2) as far as possible.



4. Disconnect hydraulic line (3) from the pump.

5. Remove two hose clamps (4) and then remove rubber hose section (5).



6. Fasten straps and a hoist to the primary hydraulic pump.

7. Disconnect bottom hose from the primary hydraulic pump.

8. Remove the pump mounting bolts and then remove primary hydraulic pump (6).

9. Weight of the primary hydraulic pump is **34 Kg (75 lbs.)**.

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

10. Put the primary hydraulic pump in position with the mounting bolts that hold it.

11. Install bottom hose to the primary hydraulic pump.

12. Install rubber hose section (5) with two hose clamps (4).

13. Connect hydraulic line (3) to the pump.

14. Raise the guard (2) with tool (A) and install two rear bolts (1).

15. Fill the hydraulic tank with hydraulic fluid to the correct level. See the **MAINTENANCE MANUAL**.

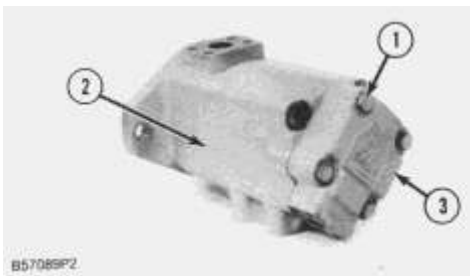
## **Disassemble Primary Hydraulic Pump**

Tools Needed		A	B
1P1859	Pliers	1	
1P510	Driver Group		1

Start By:

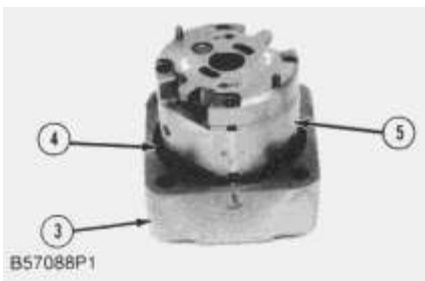
**a. remove primary hydraulic pump**

**1.** Clean the outside of the pump body and cover. Prior to disassembly, put reference marks between the end cover and center cover and the pump body. These marks will be reference for correct port relation at assembly.



**2.** Remove bolts (1).

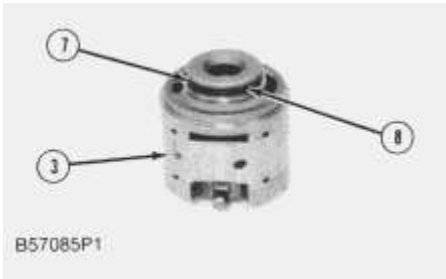
**3.** Remove cover (3). The cartridge will be removed when the cover is removed from hydraulic from hydraulic oil pump (2).



**4.** Remove O-ring seal (4) and cartridge (5).

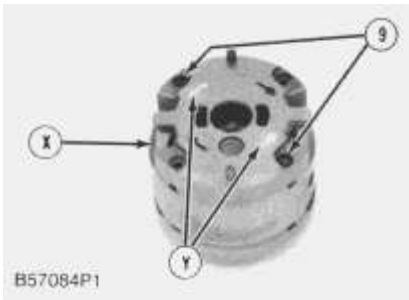


**5.** Remove seal (6).



6. Remove back-up ring (7) and O-ring seal (8).

**NOTE:** Put an alignment mark across the components of the cartridge to give reference for the correct assembly.

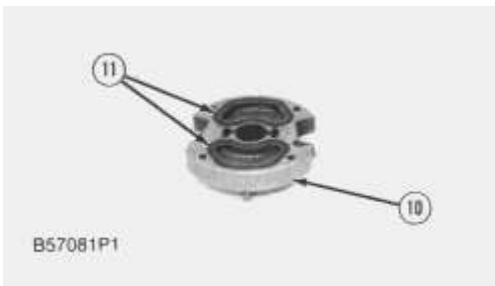


**NOTE:** Make a note of the directions of the arrows at locations (X) and (Y) and the location of bolts (9) for correct assembly purposes. The arrows indicate the direction of rotation of the hydraulic oil pump. Bolts (9) are installed in the holes next to the arrows that show the direction of pump rotation.

7. Remove bolts (9).



8. Remove plate (10).



9. Remove seal and retainers (11).

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