



# Service Repair Manual

## **Model**

245B SERIES II EXCAVATOR

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Product: EXCAVATOR

Model: 245B EXCAVATOR 1SJ

Configuration: 245B SERIES II EXCAVATOR 1SJ00713-UP (MACHINE) POWERED BY 3406 ENGINE

## Disassembly and Assembly 245B EXCAVATOR VEHICLE SYSTEMS

Media Number -SEN3898-01

Publication Date -01/05/2003

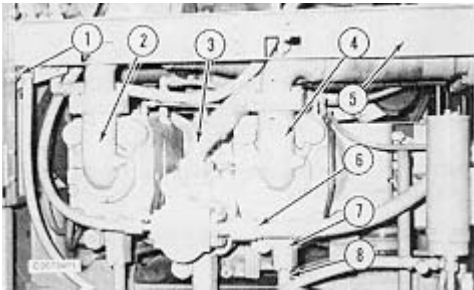
Date Updated -19/10/2004

SEN38980031

### Piston Pump

SMCS - 5070-015; 5070-016; 5070-010

### Remove And Install Piston Pump

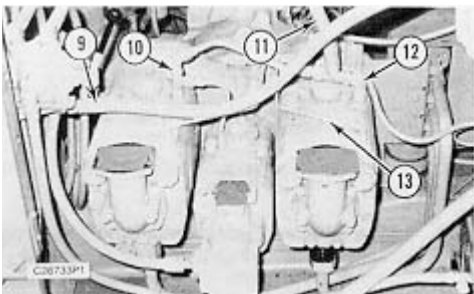


1. Drain the hydraulic tank oil level below the three piston pump hoses.

2. Remove four bolts (1) and remove frame (5).

**NOTE:** Cover all openings in the pumps and the pump lines.

3. Remove oil lines (2), (3), and (4). Disconnect oil lines (6) and (8). Remove elbow (7).



4. Disconnect oil line (9). Disconnect oil line (11) at fittings (10) and (12). Move oil lines (9) and (11) aside. Remove oil line (13).



5. Fasten a hoist to front pump (15). Remove two bolts (14) holding the front pump to the pump drive housing and remove front pump (15). Weight of the front piston pump is 935 kg (425 lb).

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

6. Fasten a hoist to front pump (15) and position the front pump on the pump drive. Install two bolts (14).

7. Install oil line (13). Connect oil line (11) at fittings (10) and (12). Connect oil line (9).

8. Install elbow (7) and connect lines (8) and (6). Install lines (2), (3), and (4).

9. Position frame (5) and install four bolts (1).

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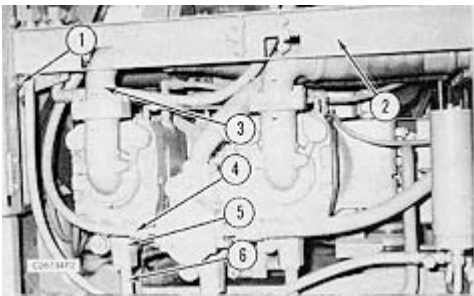
### NOTICE

**Do not start engine until pumps are filled with oil.**

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10. Fill the hydraulic tank to the correct level. See the Operation And Maintenance Manual.

## Remove And Install Piston Pump (Rear)

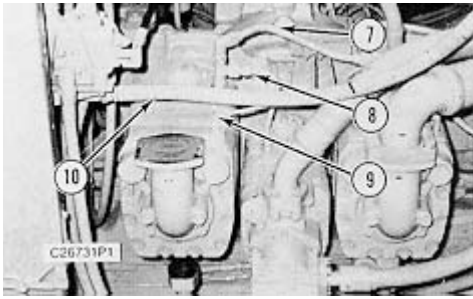


1. Drain the hydraulic tank oil level below the three piston pump hoses.

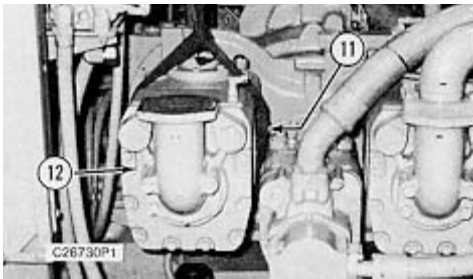
2. Remove four bolts (1) and remove frame (2).

**NOTE:** Cover all openings in the pumps and pump lines.

3. Remove oil line (3). Disconnect oil lines (4) and (6). Remove elbow (5).



4. Disconnect oil line (10). Remove oil lines (7), (8), and (9).



5. Fasten a hoist to rear pump (12). Remove two bolts (11) holding the rear pump to the pump drive housing and remove rear pump (12). Weight of the rear piston pump is 935 kg (425 lb).

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

6. Fasten a hoist to rear pump (12) and position the rear pump on the pump drive. Install two bolts (11).

7. Install oil lines (7), (8), and (9). Connect oil line (10).

8. Install elbow (5) and connect lines (6) and (4). Install line (3).

9. Position frame (2) and install four bolts (1).

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### NOTICE

**Do not start engine until pumps are filled with oil.**

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10. Fill the hydraulic tank to the correct level. See the Operation And Maintenance Manual.

## Disassemble Piston Pump (Front Or Rear)

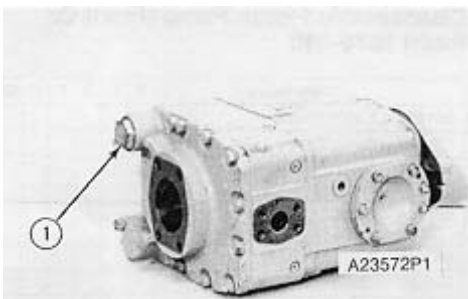
Tools Needed		A	B	C	D	E	F	G
9S1731	1.250" Socket	1						
FT1145	Guide Rod		2					
1P1853	Retaining Ring Pliers			1				
8B7554	Bearing Cup Puller Attachment				1			
8B7548	Puller Assembly						1	
9S9155	Spacer						1	
8H663	Bearing Puller Attachment						1	
FT1017	Block					1		
5P2986	Protective Plate							1
8H684	Ratchet Box Wrench						1	
8B7560	Step Plate				1			
1P7461	Leg				2			

Tools Needed		H	J	K	L	M
8B7554	Bearing Cup Puller Attachment			1	1	
8B7548	Puller Assembly			1	1	
5P2989	Retraction Plate		1			
5P2986	Protective Plate		1			1
8H684	Ratchet Box Wrench			1	1	
1P1862	Retaining Ring Pliers	1				
1P7461	Leg			2	2	
8B7550	Leg			2		
8B7559	Thread Adapter			2		
5P4808	Cap				2	
1P484	Plate					1

Start By:

a. remove piston pump (front or rear)

1. Thoroughly clean the outside of the pump.



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