



Service Repair Manual

Models

229 EXCAVATOR

Product: EXCAVATOR

Model: 229 EXCAVATOR 1GF

Configuration: 225B LC 229 EXCAVATORS 1GF00001-UP (MACHINE) POWERED BY 3208 ENGINE

Disassembly and Assembly 225B & 229 EXCAVATORS VEHICLE SYSTEMS

Media Number -SEN3873-00

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SEN38730029

Swing Drive

SMCS - 5459-015; 5459-016; 5459-010

Remove And Install Swing Drive

Tools Needed		A
5P9736	Link Bracket	3
8S9906	Ratchet Puller	1

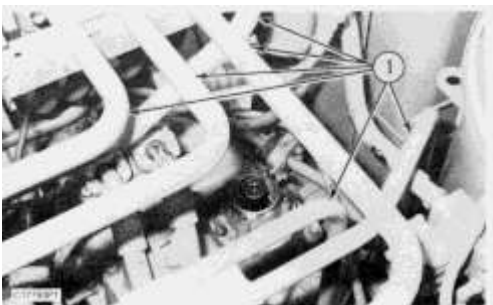
Start By:

- a. release oil pressure in main system
- b. remove swing brake

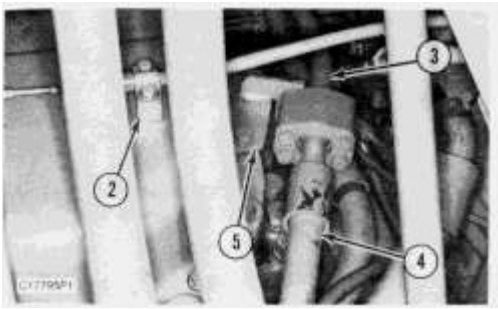


WARNING

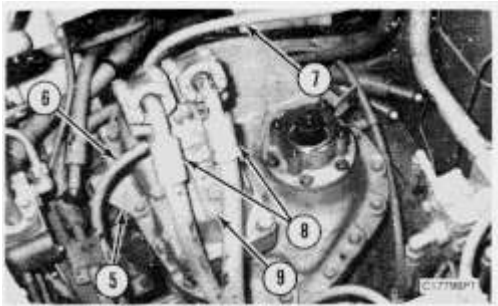
Do not disconnect or remove any oil lines until all oil pressure in main system has been released.



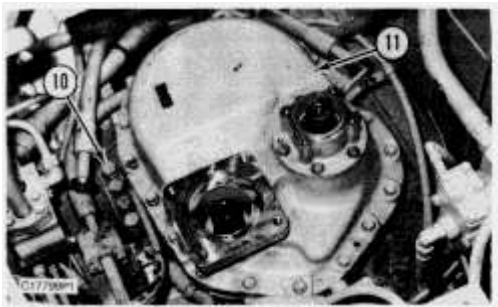
1. Remove six hydraulic tube assemblies (1).



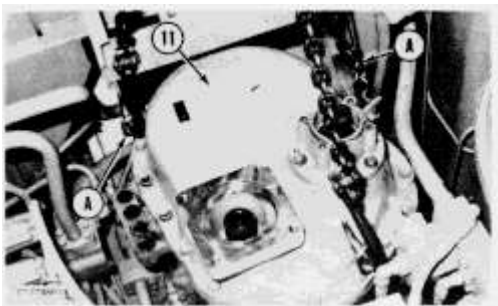
2. Remove two bolts and block (2) that fasten the parking brake cable to the housing. Disconnect hose assembly (4) and tube assembly (3) from bracket (5).



3. Disconnect hose assemblies (6) and (7). Disconnect hose assemblies (8) from swing motor (9). Remove the bolts and fasten a hoist to swing motor (9). Remove the swing motor. The weight of the swing motor is 45 Kg (100 lb.). Remove bracket (5).



4. Remove four bolts (10) from each side of swing drive (11).



5. Use tooling (A) and a hoist to remove swing drive (11). The weight of the swing drive is 400 Kg (880 lb.).

NOTE: The following steps are for the installation of the swing drive.

6. Use tooling (A) and a hoist to put the swing drive in position. Install four bolts (10) on each side of the swing drive. Tighten bolts (10) to a torque of $750 \pm 80 \text{ N}\cdot\text{m}$ ($550 \pm 60 \text{ lb. ft.}$).
7. Remove tooling (A) from the swing drive. Install bracket (5) on swing drive. Tighten the bolts that have been removed with tooling (A) and the bolts for bracket (5) to a torque of $135 \pm 15 \text{ N}\cdot\text{m}$ ($100 \pm 11 \text{ lb. ft.}$).
8. Use a hoist to install swing motor (9) on the swing drive housing. Install the four bolts to hold it.
9. Connect hose assemblies (8) to the swing motor. Connect hose assemblies (6) and (7) to the swing motor.
10. Connect hose assembly (4) and tube assembly (3) to bracket (5). Install two bolts and block (2) that fasten the parking brake cable to the housing.
11. Install six hydraulic tube assemblies (1).
12. Fill the swing motor with SAE 10W hydraulic oil.

NOTICE

Do not start the engine without the swing motor filled with oil.

End By:

- a. install swing brake

Disassemble Swing Drive

Tools Needed		A	B	C	D	E	F	G
1P2420	Tran. Repair Stand	1						
8B7548	Push Puller		1		1	1		
8H684	Ratchet Box Wrench		1		1	1		
8B7554	Bearing Cup Pulling Attach.		1	1				
5F7345	Screw			1				
8B7560	Step Plate			1	1	1		
8H663	Bearing Pulling Attachment				1			
8B7550	Leg					2		
1P1784	Hydraulic Cylinder Repair Stand						1	
9S8900	Cylinder Group							1
5P3100	Pump Group							1
5F9888	Adapter							1
5F9892	Pin							1
5F9882	Adapter							1
2P8348	Adapter							1
5F9306	Arm							2
2B4206	Yoke Assembly							1

Tools Needed		H	I	J
8B7560	Step Plate		1	1
1H3107	Push Puller		1	1
1H3110	Bearing Pulling Attachment		1	1
1H3108	Leg			2
5S2475	Seal Installer	1		

Start By:

- a. remove swing drive
- b. remove swing motor
- c. remove swing brake

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