



Service Repair Manual

Models

330, 330L EXCAVATOR

Product: EXCAVATOR

Model: 330 L EXCAVATOR 6WJ

Configuration: 330, 330L TRACK-TYPE EXCAVATORS 6WJ00001-UP (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly 330,330 L & 330 LN EXCAVATORS MACHINE SYSTEMS

Media Number -SEN5498-01

Publication Date -01/10/2004

Date Updated -19/01/2005

SEN54980022

Travel Motors

SMCS - 4351-017; 4351-010

Remove & Install Travel Motors

Tools Needed		A
6V2156	Link Bracket	1
6V2082	Hook Group	1
1U7558	Transmission Mounting Arm	2

NOTE: Prior to removing the travel motor, drain the oil from the final drive into a suitable container. To drain the oil, put the drain plug in the final drive at the bottom position by moving the machine. Remove the drain plug to drain the oil. The capacity of the final drive is **13 liters (3.4 U.S. gal)**.

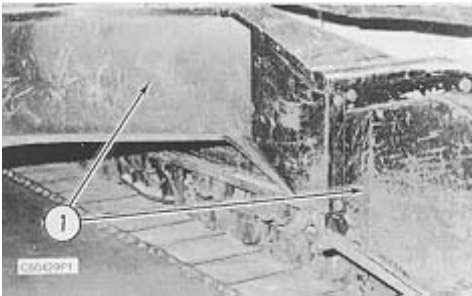


WARNING

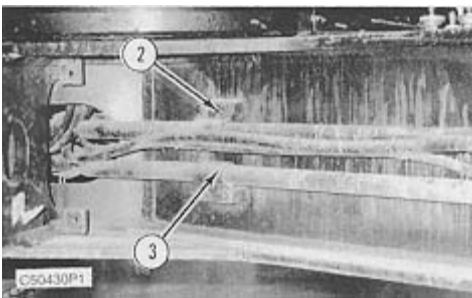
At operating temperature, the hydraulic oil tank is hot and under pressure. Hot oil can cause burns. To prevent possible personal injury, release the pressure in the implement hydraulic circuits (boom, stick and bucket) before any hydraulic lines or components are disconnected or removed.

1. Release the pressure in the hydraulic system as follows:
 - a. Fully retract the rod in the stick cylinder.

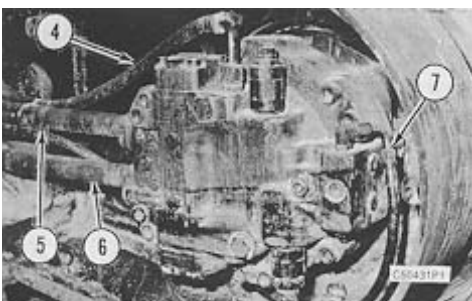
- b.** Adjust the position of the bucket so it will be flat on the ground when the boom is lowered.
- d.** Lower the boom until the bucket is flat on the ground.
- d.** Shut off the engine, and put the hydraulic activation control lever in the "Lock" position.
- e.** Move the control levers for the boom, bucket, stick and swing through their full travel strokes. This will relieve any pressure that may be present in the pilot system.
- f.** Slowly loosen the air breather cap on the hydraulic oil tank to release the pressure.
- g.** Tighten the air breather cap on the hydraulic oil tank.
- h.** The pressure in the hydraulic system has now been released. Lines and components can now be removed.



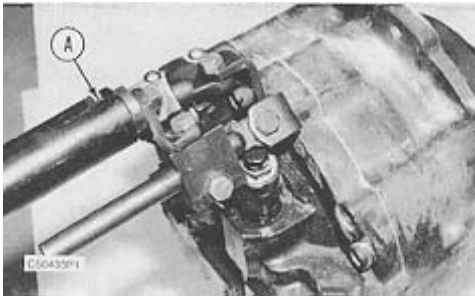
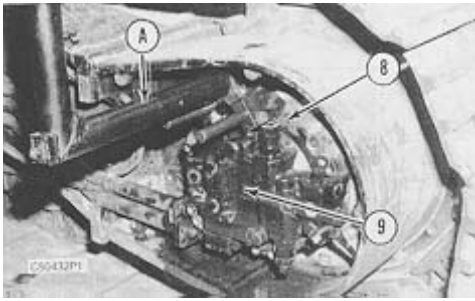
- 2.** Remove two covers (1) from the rear of the undercarriage frame assembly.



- 3.** Remove four bolts (2) and the washers that hold clamps (3) in position. Remove the clamps. This will allow the tube assemblies that are connected to the travel motor to move.



- 4.** Disconnect hose assemblies (4) and (7) from the travel motor. Put plugs in the ends of the hose assemblies to keep dirt and debris out of the hydraulic system.
- 5.** Disconnect tube assemblies (5) and (6) from the travel motor.



Installation Of Tool (A) On Travel Motor

NOTE: Six socket head bolts hold the travel motor to the final drive.

6. Remove two upper socket head bolts (8) that hold the travel motor to the final drive. Fasten tool (A) and a hoist to the travel motor.
7. Remove four remaining socket head bolts (8) that hold travel motor (9) to the final drive. Remove the travel motor from the final drive. The weight of the travel motor is **120 kg (265 lb)**.
8. Remove the O-ring seal from the body of the travel motor.

NOTE: The following steps are for the installation of the travel motor.

9. Thoroughly clean the mating surface of the travel motor and the final drive prior to installation of the travel motor.
10. Check the condition of the O-ring seal used on the body of the travel motor. If the seal is worn or damaged, use a new part for replacement. Install the O-ring seal on the body. Put **1U6395 O-ring Compound** on the O-ring seal.

NOTICE

During installation of the travel motor in the final drive, do not damage the O-ring seal on the travel motor body.

11. Fasten tool (A) and a hoist to travel motor (9). Put the travel motor in position in the final drive. Install four of socket head bolts (8) that hold the travel motor in position. Remove tool (A), and install two remaining bolts (8). Tighten the six socket head bolts evenly.
12. Check the condition of the O-ring seals used in the ends of tube assemblies (5) and (6) and hose assemblies (4) and (7). If the seals are worn or damaged, use new parts for replacement.

Install the O-ring seals in the ends of tube assemblies and hose assemblies. Connect hose assemblies (4) and (7) and tube assemblies (5) and (6) to the travel motor in their original locations.

13. Reinstall two clamps (3) that hold the tube assemblies to the rear of the undercarriage frame assembly.

14. Reinstall two cover assemblies (1) on the rear of the undercarriage frame assembly.

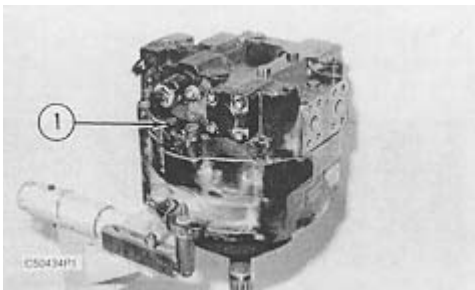
15. Fill the final drive with oil to the correct level. See the Operation & Maintenance Manual for the correct filling procedure.

Disassemble & Assemble Travel Motors

Tools Needed		A	B
6V2156	Link Bracket	1	
1P0520	Driver Group		1

Start By:

a. remove travel motors



1. Thoroughly clean the outside of the travel motor prior to disassembly. Fasten the travel motor to a suitable rotating holding fixture in a vertical position. The weight of the travel motor is **120 kg (265 lb)**.

2. Put an alignment mark across the head assembly and body group of the travel motor for assembly purposes. The head assembly must be reinstalled in its original position on the travel motor body.

NOTICE

During removal of head assembly (2) from the travel motor body, do not scratch or damage the mating surfaces of the components. Put identification marks on all parts of the head assembly for assembly purposes. The components must be reinstalled in their original locations.

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