



Service Repair Manual

Models

E450 EXCAVATOR

Product: EXCAVATOR

Model: E450 EXCAVATOR 3HG

Configuration: E450 TRACK-TYPE EXCAVATOR 3HG00001-UP (MACHINE) POWERED BY 6D22-TC ENGINE

General Service Information E450 EXCAVATOR TRAVEL MOTOR

Media Number -SEN4471-00

Publication Date -01/04/1988

Date Updated -11/10/2001

4. Disassembly

4-1 Preparation

Make the following preparations prior to disassembly:

(1) Workbench with vise

The workbench must have enough space to place and hold parts during work. Soft jaws are needed for the vise.

(2) Tools and supplies

Prepare the tools and supplies shown in 3-2.

4-2 General Precautions

(1) Use care in handling precision made parts during work to avoid damage caused by striking other parts or by being dropped.

(2) Never strike or prize parts forcibly when they are held fast, so as to prevent damage, burring, oil leakage or lowered performance. Use care and patience.

(3) Protect parts from corrosion and dust when disassembly is interrupted for some time. Parts rust easily due to moisture or dust when left disassembled.

4-3 Disassembly Procedure



(1) Disassembly of travel motor

1. Remove the VP plug from the casing with a socket and a torque wrench to discharge the residual oil from the casing and the cylinder.

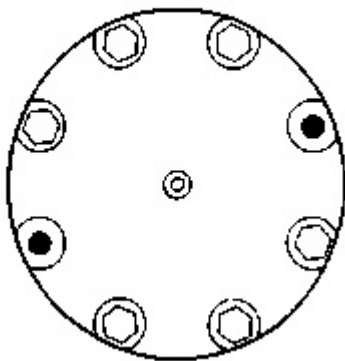
Use an oil container with 2l (0.5 gal) or more capacity to catch the oil.



2. Remove the O-ring from the VP plug.



3. Remove two hexagon bolts positioned symmetrically with a socket and a torque wrench.





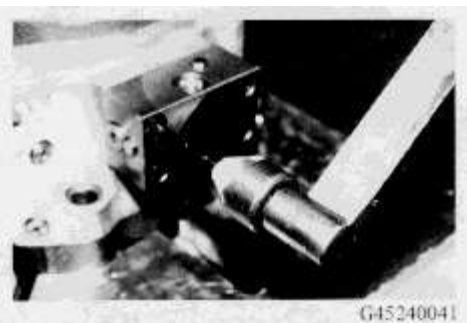
4. Run the eyebolts (M12) into the bolt holes from which the two bolts were removed in above step and hoist the motor using a wire rope and a crane.



5. Clean the outer circumference of the travel motor with kerosene, then dry by compressed air. Cover all ports with shipping plugs and tapes.



6. Lower the travel motor to a workbench with the output shaft coming on bottom. Then remove the eyebolts.

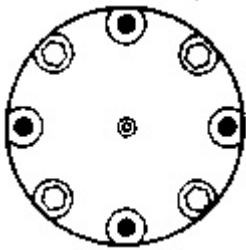


7. Remove the selector valve assembly from the motor by removing the hexagon socket bolts with a hexagon wrench.



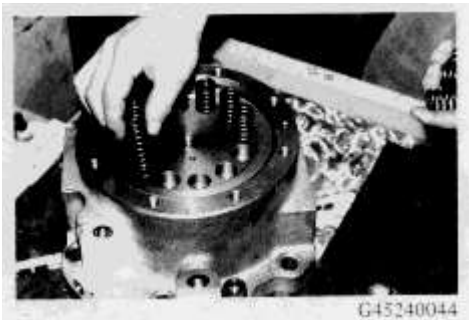
8. Remove the brake cover by removing the eight bolts with a socket wrench.

* Since the brake cover will be pushed up by the brake spring force when the bolts are removed, use care and loosen evenly.* First loosen 4 bolts shown with shadow, then loosen the remaining 4 little by little.



9. Remove the O-ring from the brake cover.

* Do not reuse the O-ring removed.



10. Pull out the brake springs from the brake piston.

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