



# Service Repair Manual

## **Models**

# M312 Excavator

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Product: EXCAVATOR

Model: M312 EXCAVATOR 6TL

Configuration: M312 Excavator 6TL00410-UP (MACHINE) POWERED BY 3054 Engine

## Disassembly and Assembly M312 and M315 Excavators Power Train Supplement

Media Number -REN4026-00

Publication Date -01/12/2000

Date Updated -09/10/2001

i01354524

## Travel Motor - Disassemble

SMCS - 4351-015

S/N - 6TL1140-UP

S/N - 7ML1917-UP

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
(A)	1U-7563	Hex Wrench	1
(B)	1U-7600	Slide Hammer Puller Gp	1
(C)	6V-3821	Bolt	1
(D)	8H-0663	Bearing Puller	1

### Start By:

- A. Remove the travel motor. Refer to Disassembly and Assembly, "Travel Motor - Remove" in this manual.

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### NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

**Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.**

**Dispose of all fluids according to local regulations and mandates.**

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**Note:** Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism.

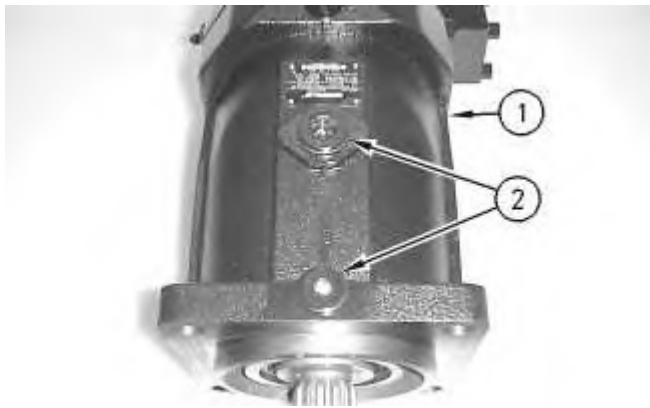


Illustration 1

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1. Remove two drain plugs (2) from housing (1). Drain the oil from the travel motor into a suitable container for storage or disposal.

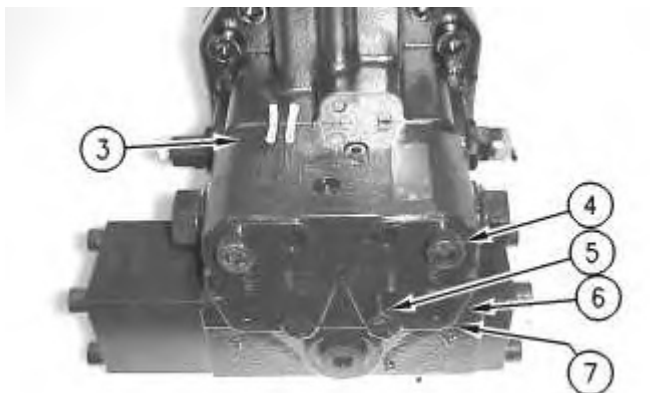


Illustration 2

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2. Mark brake valve (3) for reassembly purposes. Remove socket head bolts (4), bolts (5), covers (6) and gaskets (7).
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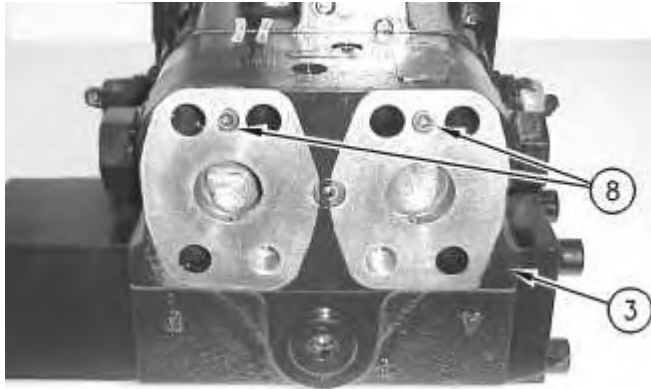


Illustration 3

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3. Remove two socket head bolts (8). Remove brake valve (3) .

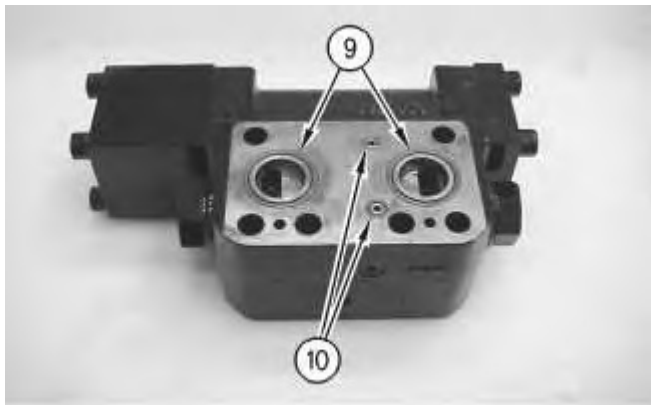


Illustration 4

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4. Remove two large O-ring seals (9) and two small O-ring seals (10) .



Illustration 5

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5. Remove four bolts (11). Remove cover (12) .



Illustration 6

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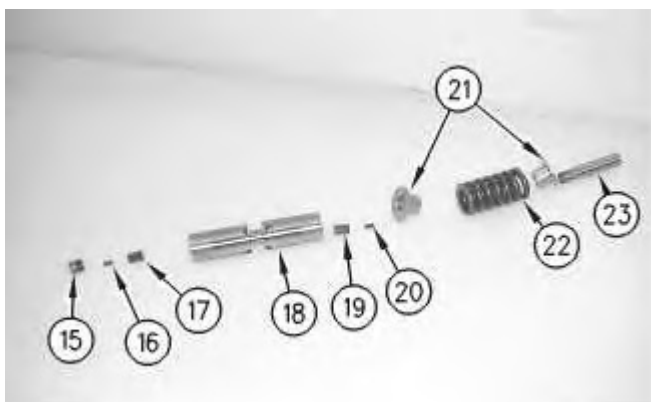
6. Remove O-ring seal (13) .



Illustration 7

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7. Remove piston assembly (14) from the brake valve.



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