



Service Repair Manual

Models

313D2 Excavator

Product: EXCAVATOR

Model: 313D2 EXCAVATOR MES

Configuration: 313D2 Excavator MES00001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly 313D2 Excavator Machine Systems

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i05453711

Travel Motor - Disassemble

SMCS - 4351-015

Disassembly Procedure

Start By:

- a. Remove the travel motor.
 1. Thoroughly clean the outside of the travel motor prior to disassembly.
 2. Fasten the travel motor to a suitable holding fixture in a vertical position. The weight of the travel motor is 60 kg (132 lb).
 3. Put an alignment mark across the head and the body of the travel motor for assembly purposes. The head must be reinstalled in the original position on the body of the travel motor.

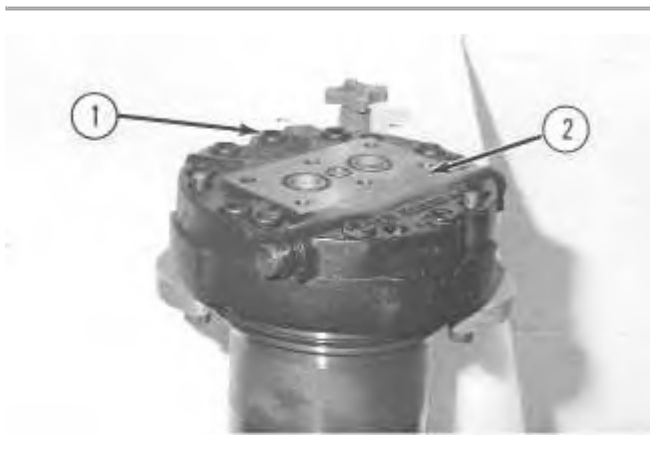


Illustration 1

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WARNING

Personal injury can result from parts and/or covers under spring pressure.

Spring force will be released when covers are removed.

Be prepared to hold spring loaded covers as the bolts are loosened.

Note: During the removal of head (2) from the body of the travel motor, make sure that you do not scratch or damage the mating surfaces of the components.

4. Remove socket head bolts (1).
5. Remove head (2) from the body of the travel motor.

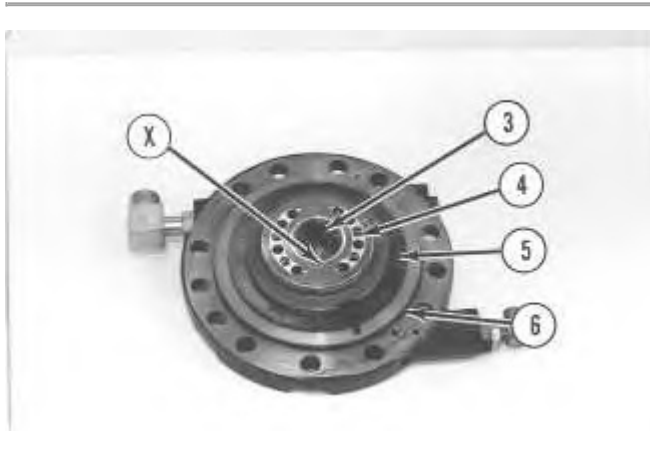


Illustration 2

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Illustration 3

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6. Turn over the head.
7. Remove O-ring seal (6), shims (5), port plate (4), and bearing (3) from the head.

8. Remove the two check valve assemblies from the head.

Note: There is a retainer under spring (9). This retainer is a press fit in head (2). Do not remove the retainer.

9. Insert a dowel rod with a small diameter into Hole (X). Tap the dowel rod with a plastic hammer in order to remove spring (9), poppet (8) and seat (7) from the head.



Illustration 4

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10. Remove fittings (10) and plugs (11) from the head. Remove the O-ring seal from each fitting.

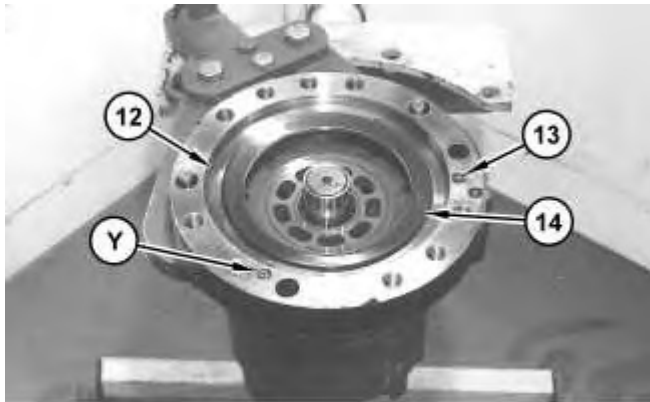


Illustration 5

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Note: Not the orientation of Belleville washer set (12) for assembly purposes. You will need to install Belleville washer set (12) in the same orientation during the installation procedure.

11. Remove three O-ring seals (13) and Belleville washer set (12) from the body of the travel motor.
 12. Place a shop towel over brake piston (14). Retain brake piston (14) by hand, and apply approximately 525 kPa (75 psi) of shop air pressure to Brake Release Port (Y). Make sure that the shop air pressure is free of water. Brake piston (14) will move up the piston guide, and out of the piston guide. Remove brake piston (14) from the body of the travel motor.
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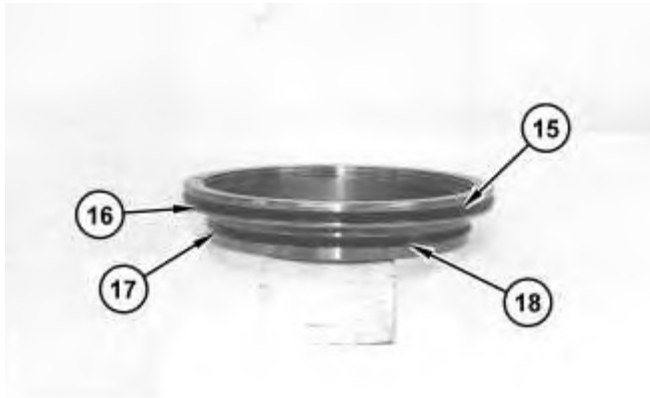


Illustration 6

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13. Remove O-ring seal (16) from the brake piston. Remove backup ring (15) from the brake piston.
14. Remove O-ring seal (17) from the brake piston. Remove backup ring (18) from the brake piston.



Illustration 7

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15. Remove piston guide (19), five friction plates (20), and the four steel plates from the body of the travel motor.

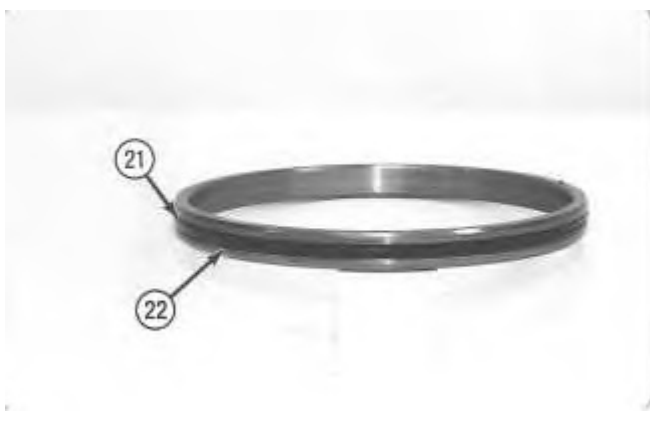


Illustration 8

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16. Remove O-ring seal (21) from the piston guide. Remove backup ring (22) from the piston guide.

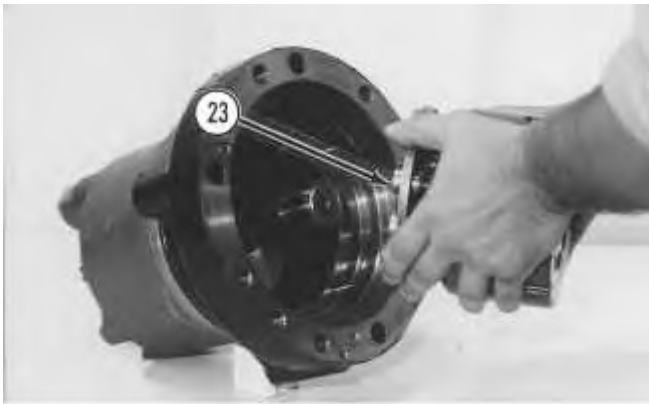


Illustration 9

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Note: Do not allow the components of barrel assembly (23) to come apart during the removal from the travel motor. All of the components in the barrel assembly must be reinstalled in the original locations.

17. Slowly remove barrel assembly (23) from the body of the travel motor. Do not allow the components to fall apart.



Illustration 10

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Note: Retaining plate (25) and piston assemblies (24) are not serviced separately. Prior to the removal of retaining plate (25) and piston assemblies (24) from barrel (26), put identification marks on piston assemblies (24) for assembly purposes. Identification marks are used to identify the locations of the piston assemblies in retaining plate (25) and barrel (26). The piston assemblies must be reinstalled in the original bores in the retaining plate and the barrel.

18. Remove retaining plate (25) and piston assemblies (24) from barrel (26). Separate piston assemblies (24) from retaining plate (25).
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Illustration 11

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19. Remove guide (27), spacer (28), and springs (29) from the barrel.

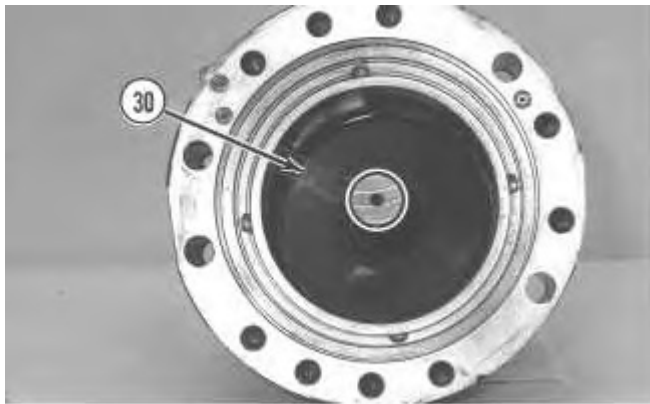


Illustration 12

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20. Remove cam plate (30) from the body of the travel motor.

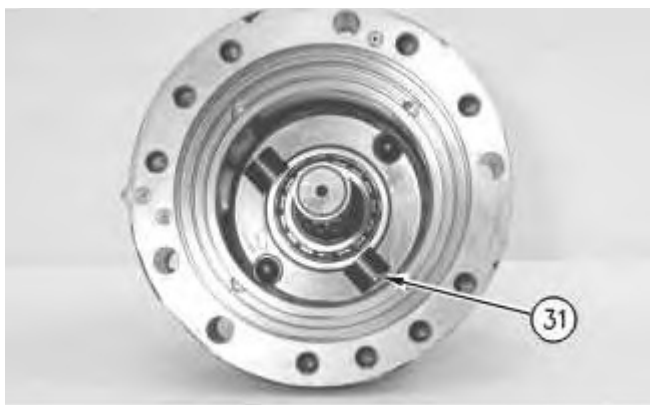


Illustration 13

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21. Remove two keys (31) and the two locating pins (not shown) from the body of the travel motor.
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