



# Service Repair Manual

## **Models**

319D L and 319D LN Excavator

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Product: EXCAVATOR

Model: 319D LN EXCAVATOR FMH

Configuration: 319D L & 319D LN Excavators FMH00001-UP (MACHINE) POWERED BY C4.2 Engine

## **Disassembly and Assembly 315D, 318D and 319D Excavators Machine Systems**

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# **Travel Motor - Disassemble**

SMCS - 4351-015

## **Disassembly Procedure**

### **Start By:**

- a. Remove the travel motor.

**Reference:** 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 Dealer Service Tool Catalog" 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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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).

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



Illustration 1

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**Note:** During the removal of head (2) from the body of the travel motor, be careful not to scratch or damage the mating surfaces of the components.

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

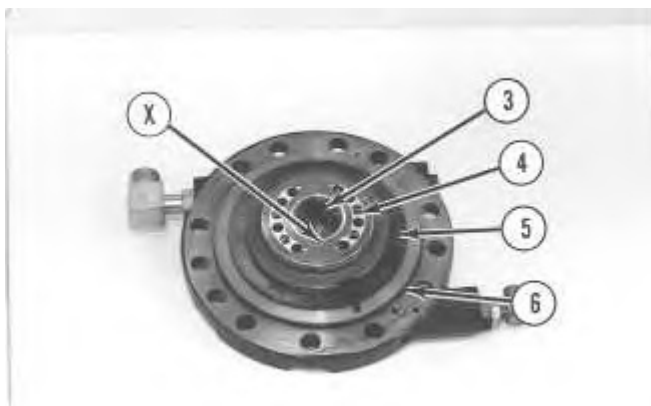


Illustration 2

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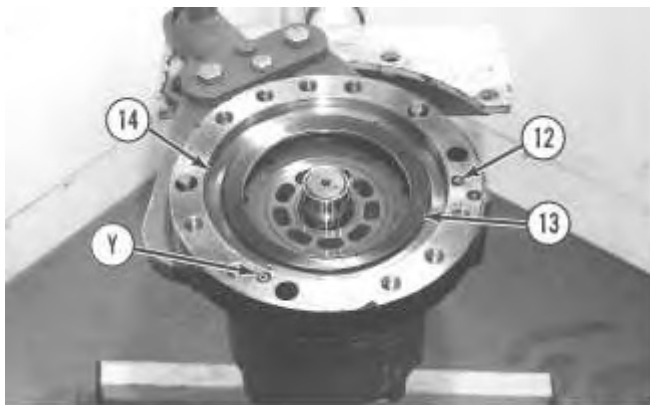
6. Turn over head (2).
7. Remove O-ring seal (6), shims (5), port plate (4), and bearing (3) from the head.
8. Remove the two check valve assemblies from the head.

**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.



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



11. Remove three O-ring seals (12) and washer set (13) 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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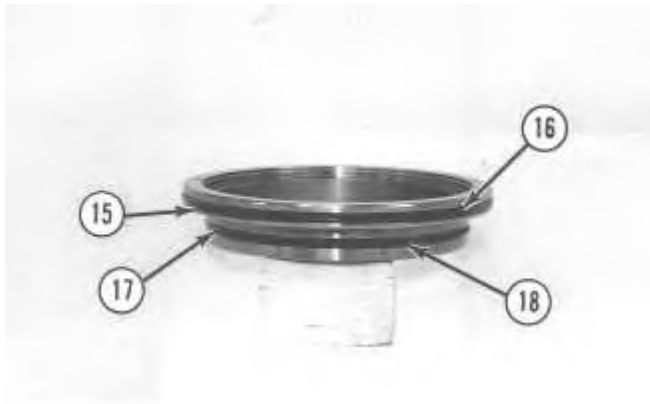


Illustration 6

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