

Product: EXCAVATOR

Model: 336E LN EXCAVATOR TMZ

Configuration: 336E L & 336E LN Excavators TMZ00001-UP (MACHINE) POWERED BY C9.3 Engine

## Disassembly and Assembly

### 336E Excavator and 336E MHPU Mobile Hydraulic Power Unit Machine Systems

Media Number -KENR8157-05

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i03863290

## Travel Motor - Disassemble

SMCS - 4351-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-7506	Adapter	1
	8T-4244	Nut	6
	8T-4223	Hard Washer	6
	-	M12 x 1.75 by 250 mm (10 inch) Threaded Rod	1
B	8T-0651	Bolt	1
	8T-4167	Hard Washer	1
C	3E-3882	Eyebolt	1
D	1P-1859	Retaining Ring Pliers	1
E	1P-0510	Driver Gp	1
	9S-9152	Bearing Puller Gp	1
F	1P-1861	Retaining Ring Pliers	1

### Start By:

- a. Remove the travel motor.
  1. Fasten the travel motor in Tooling (A) in a vertical position. The weight of the travel motor is approximately 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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## **WARNING**

**Personal injury can result from being struck by parts propelled by a released spring force.**

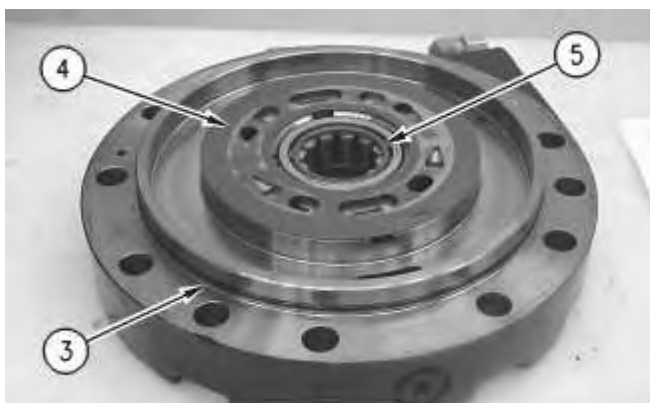
**Make sure to wear all necessary protective equipment.**

**Follow the recommended procedure and use all recommended tooling to release the spring force.**

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

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



5. Remove O-ring seal (3), port plate (4), and bearing (5).

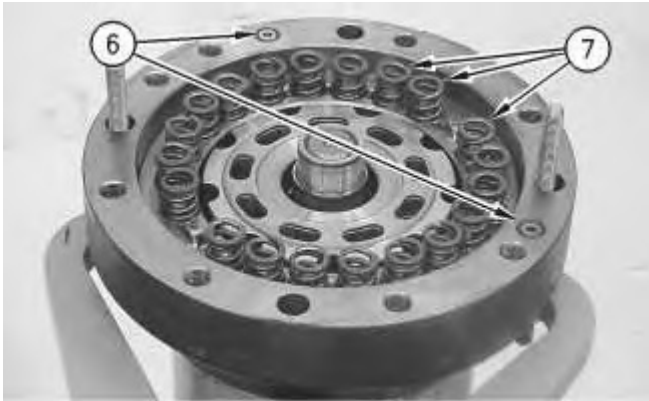


Illustration 3

6. Remove O-ring seals (6). Remove springs (7).

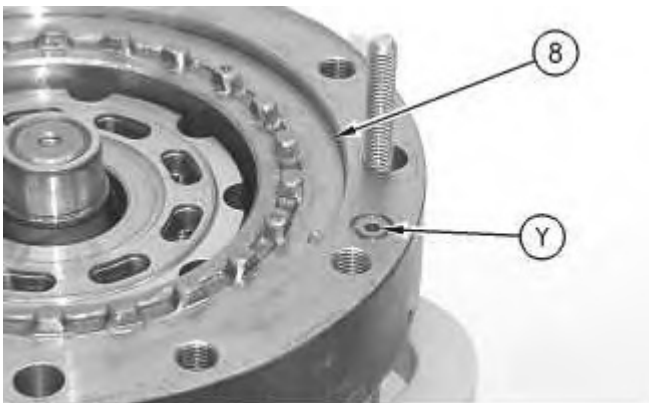


Illustration 4

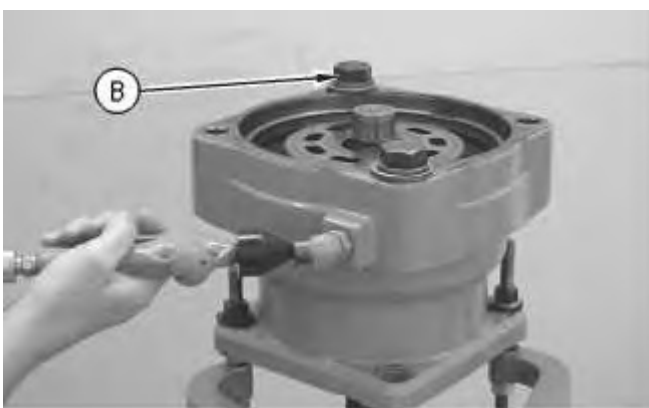


Illustration 5

This is an example of the use of Tooling (B).

7. Place a shop towel over brake piston (8). Retain brake piston (8) with Tooling (B). 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 (8) will move up the piston guide, and out of the piston guide. Remove brake piston (8) from the body of the travel motor.



Illustration 6

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8. Remove seal (9) and backup ring (10) from the brake piston.
9. Remove seal (11) and backup ring (12) from the brake piston.



Illustration 7

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10. Remove plates (13) and friction discs (14).

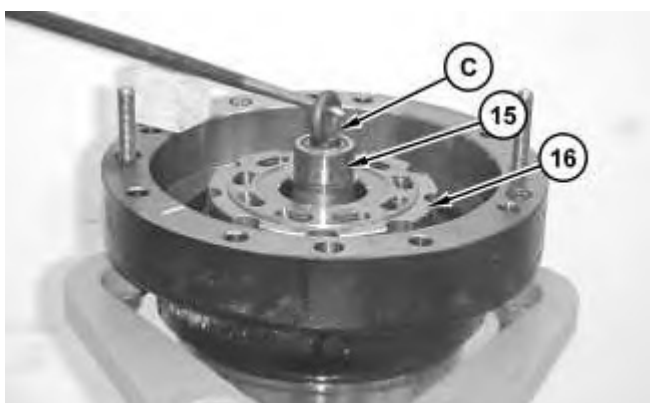


Illustration 8

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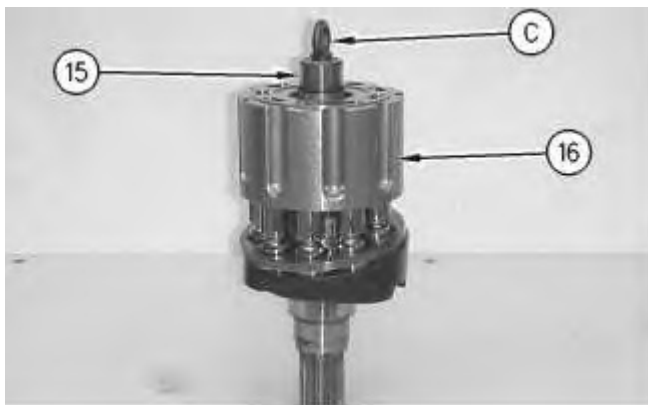


Illustration 9

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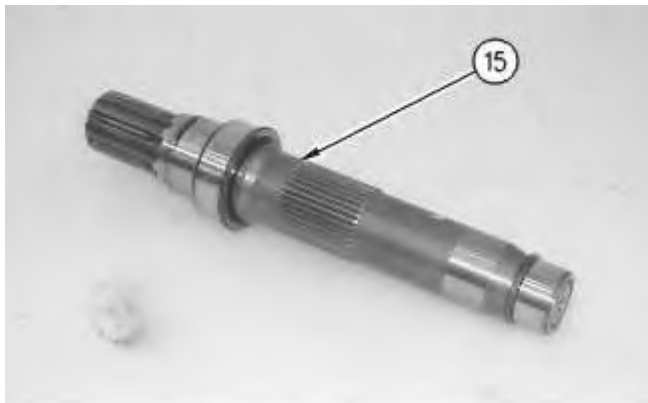


Illustration 10

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11. Install Tooling (C) into shaft (15). Use a prybar to remove the rotating assembly (16) from the housing.
12. Remove Tooling (C) from shaft (15).
13. Remove shaft (15) from rotating assembly (16).

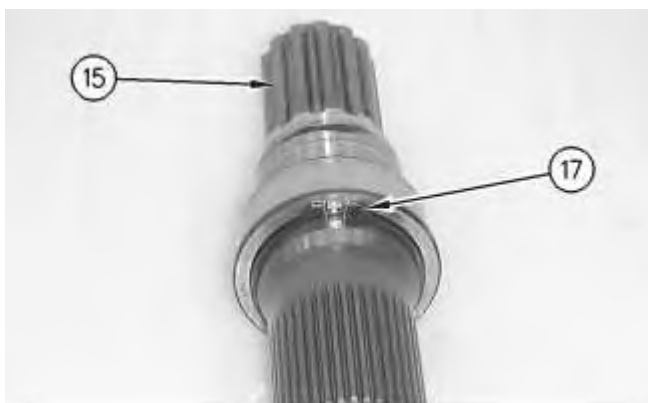


Illustration 11

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14. Use Tooling (D) in order to remove retaining ring (17) from shaft (15).

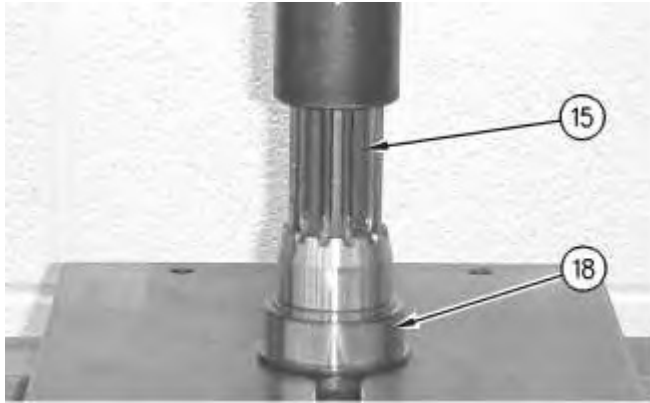


Illustration 12

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15. Use a suitable press in order to remove bearing race (18) from shaft (15).

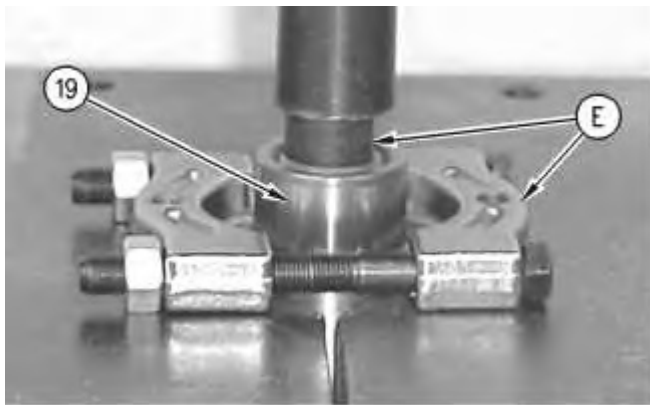


Illustration 13

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16. Rotate shaft (15). Use a suitable press and tooling (E) in order to remove bearing race (19) from shaft (15).



Illustration 14

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17. Remove cam plate (20) from barrel assembly (21).

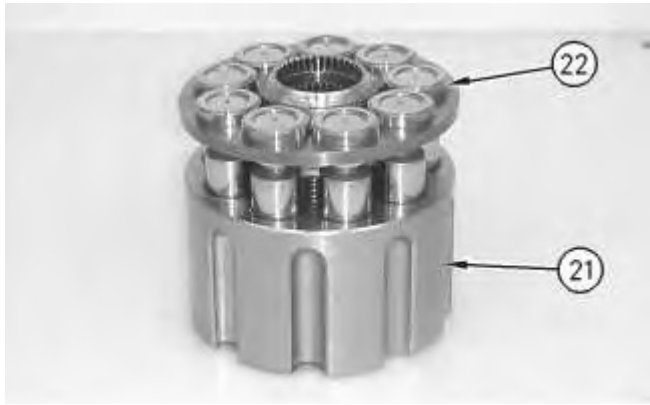


Illustration 15

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18. Remove piston assemblies and retainer plate (22) from barrel assembly (21).

**Note:** Place marks on the pistons and the barrel assembly. The pistons must be returned to the original position.



Illustration 16

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**! WARNING**

**Personal injury can result from being struck by parts propelled by a released spring force.**

**Make sure to wear all necessary protective equipment.**

**Follow the recommended procedure and use all recommended tooling to release the spring force.**

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19. Remove ball (23) and springs (24).
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