

Product: EXCAVATOR

Model: 538 EXCAVATOR GMY

Configuration: 538 Forest Machine General Forestry GMY00001-UP (MACHINE) POWERED BY C7.1 Engine

Disassembly and Assembly 538 LL GF Forest Machine Machine Systems

Media Number -M0071454-01

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i06723334

Final Drive - Disassemble

SMCS - 4050-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-2420	Transmission Repair Stand	1
B	439-3938	Link Bracket	2
C	1P-1863	Retaining Ring Pliers	1
D	154-6181	Forcing Screw	2
E	439-3939	Link Bracket As	2
F	5F-7366	Forcing Screw	1
	1P-5546	Crossblock	1
	1U-9889	Crossblock	1
	1P-0520	Driver Group	1
	6V-7888	Puller Leg	2
	1H-3112	Puller Assembly	1
	1P-5551	Adjustable Screw Assembly	1

Start By:

- a. Remove the final drive.

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

Note: Some of the images that are in this procedure do not show the sprocket assembly that is attached to the final drive housing. If necessary, the weights that are given include the weight of the sprocket assembly.

1. Put an alignment mark across the sections of the final drive for assembly purposes. The parts must be reinstalled in the original locations.

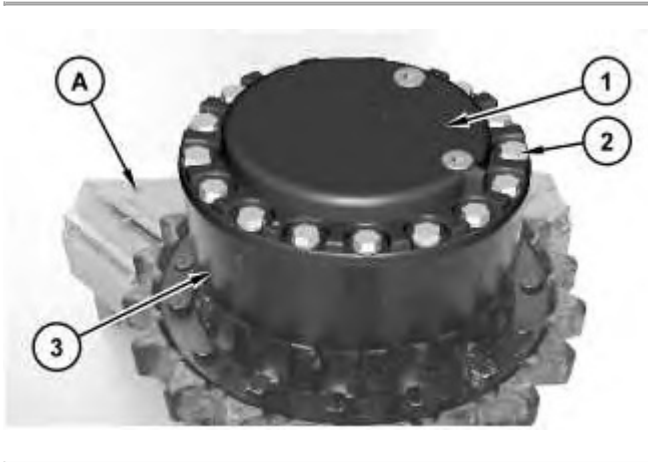


Illustration 1

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2. Position final drive (3) to Tooling (A). The weight of final drive (3) is approximately 365 kg (785 lb).
3. Remove bolts (2) that hold cover (1) in position.

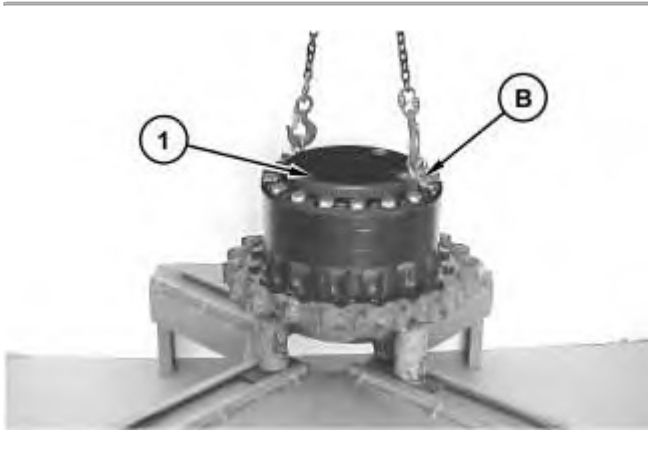


Illustration 2

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4. Remove the setscrews from cover (1).
 5. Attach Tooling (B) and a suitable lifting device to cover (1). The weight of cover (1) is approximately 32 kg (70 lb).
 6. Remove cover (1).
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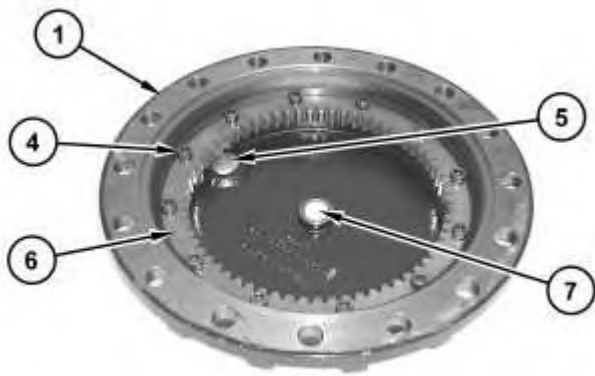


Illustration 3

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7. Remove bolts (4) and gear (6).
8. Check plate (7). Replace plate (7) if wear is shown.
9. Remove plugs (5) from cover (1).



Illustration 4

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10. Remove O-ring seal (8) from plugs (5).



Illustration 5

g01760169

11. Remove gear (9) and spacer (10).



Illustration 6

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12. Use Tooling (C) to remove retaining ring (11).
13. Remove washer (12) and gear (13).
14. Remove bearing assembly (14) and second washer (12).
15. Repeat Steps 12 through 14 for the remaining two gear assemblies.

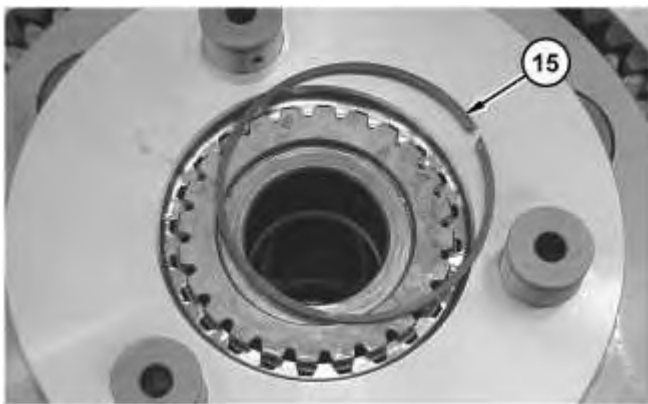


Illustration 7

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16. Remove retaining ring (15).



17. Remove carrier assembly (16).

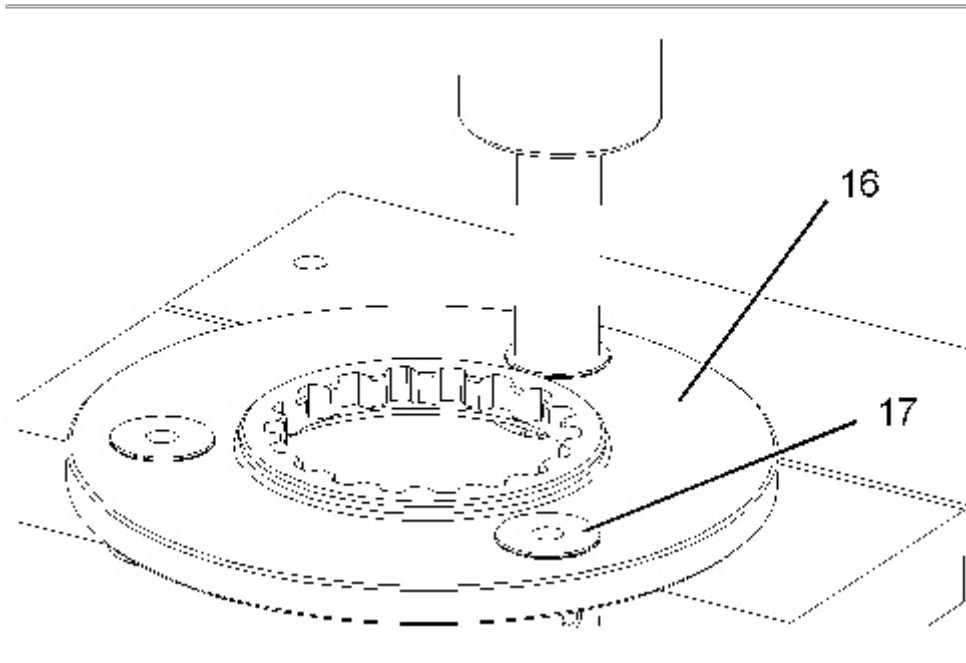


Illustration 9

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18. Use a suitable press to remove shafts (17) from carrier assembly (16).

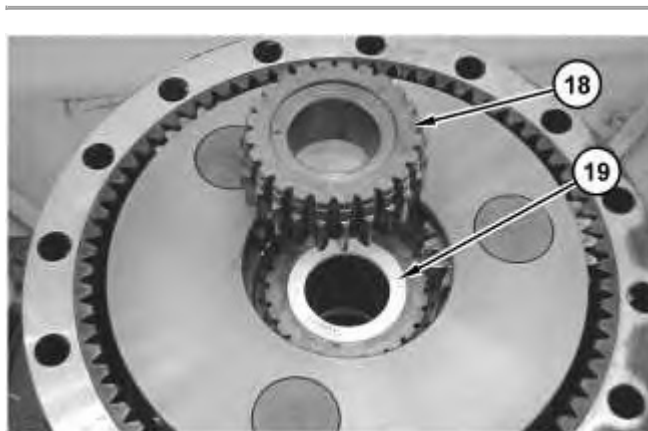


Illustration 10

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19. Remove gear (18) and spacer (19).
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Illustration 11

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20. Remove retaining ring (20) and carrier assembly (21).

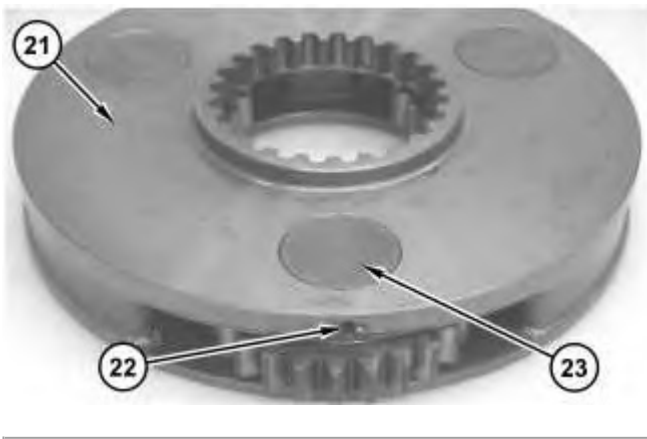


Illustration 12

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21. Disassemble carrier assembly (21), as follows.
 - a. Use a suitable hammer and a suitable punch to drive spring pin (22) into planetary shaft (23).

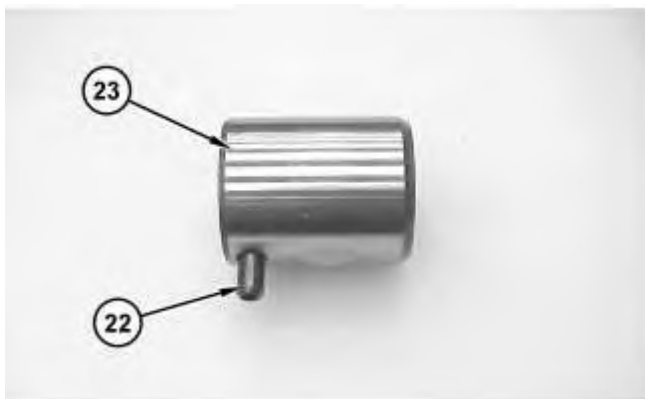


Illustration 13

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- b. Remove planetary shaft (23).

- c. Use a suitable hammer and a suitable punch to remove spring pin (22) from planetary shaft (23).

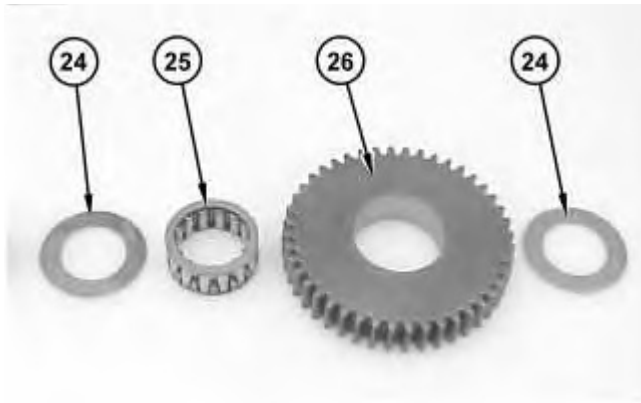


Illustration 14

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- d. Remove thrust washers (24) and planetary gear (26) from the carrier assembly.

- e. Remove bearing (25) from planetary gear (26).

22. Repeat Steps 21.a through 21.e for the other two planetary gears.

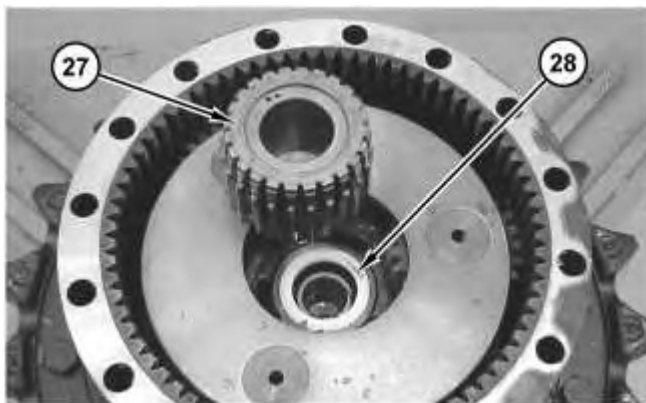


Illustration 15

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23. Remove gear (27) and spacer (28).



24. Use two people to remove carrier assembly (29). The weight of carrier assembly (29) is approximately 38 kg (85 lb).

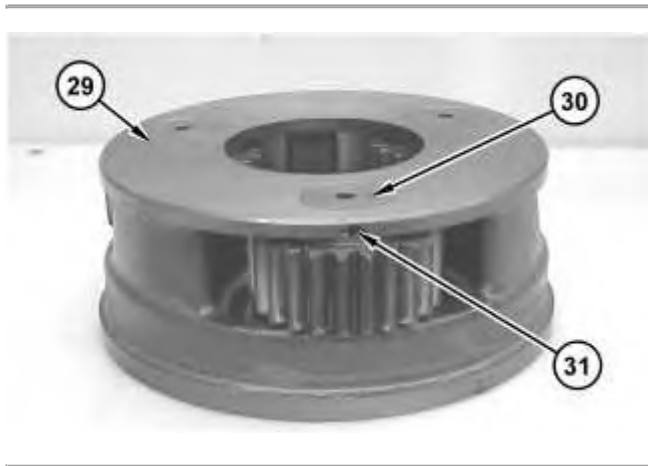


Illustration 17

25. Disassemble carrier assembly (29), as follows.

- a. Use a suitable hammer and a suitable punch to drive spring pin (31) into planetary shaft (30).

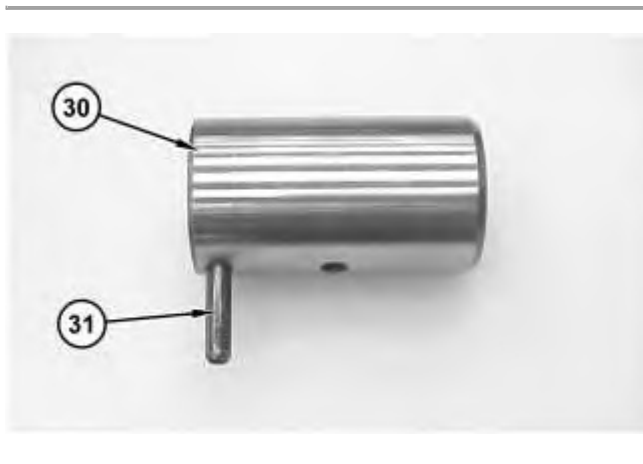


Illustration 18

- b. Remove planetary shaft (30).
- c. Use a suitable hammer and a suitable punch to remove spring pin (31) from planetary shaft (30).
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