

Product: VIBRATORY COMPACTOR

Model: CB-68B VIBRATORY COMPACTOR 496

Configuration: CB68B, CB66B, CB64B Vibratory Compactor 49600001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly CB64B, CB66B, and CB68B Asphalt Compactors Machine Systems

Media Number -UENR6756-03

Publication Date -01/02/2018

Date Updated -07/02/2018

i06943841

Final Drive Planetary - Disassemble

SMCS - 4050-015; 4084-015

Disassembly Procedure

Start By:

- a. Remove the final drive planetary.

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	150-1782	Crossblock	1
	1U-5230	Hydraulic Pump Assembly	1
	126-7179	Puller Leg	2
	4C-4660	Adapter-Threaded	2
	3H-0465	Push-Puller Plate	4
	360-6956	Hydraulic Cylinder	1
B	6V-8359	Bolt	2
C	1P-2420	Transmission Repair Stand	1
D	1U-6400	Three Jaw Puller	1
E	8B-7554	Bearing Cup Puller Gp	1
	1P-0510	Driver Gp	1
F	6V-6080	Torque Multiplier Gp	1
	524-2773	Socket As	1

G	1U-9889	Crossblock	1
	4C-5660	Adapter-Threaded	2
	5F-7369	Puller Leg	2
	3H-0465	Push-Puller Plate	2
	5P-5247	Hydraulic Puller As	1
H	439-3939	Link Bracket As	3
J	1U-9889	Crossblock	1
	3H-0469	Leg	2
	3H-0465	Push-Puller Plate	4
	1P-0520	Driver Gp	1
	360-6964	Hydraulic Cylinder	1
	1U-5230	Hydraulic Pump Assembly	1

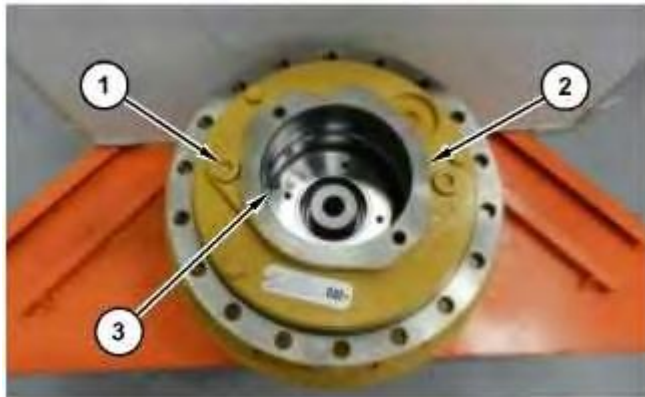


Illustration 1

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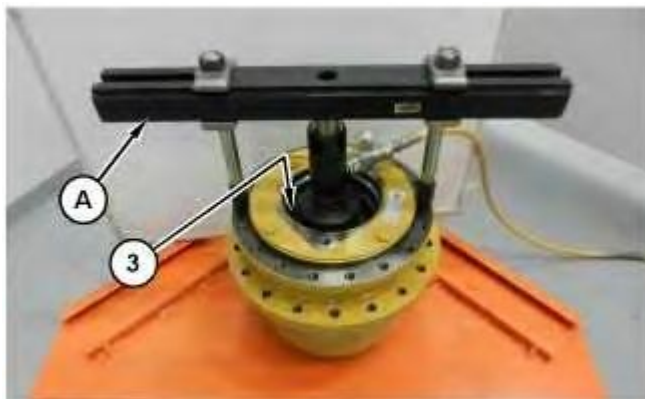


Illustration 2

g06172710

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.

1. Remove bolts (1), flange (2), and the O-ring seal.
2. Use Tooling (A) to compress the plate away from retaining ring (3).
3. Remove retaining ring (3) and release pressure from Tooling (A). Remove Tooling (A).

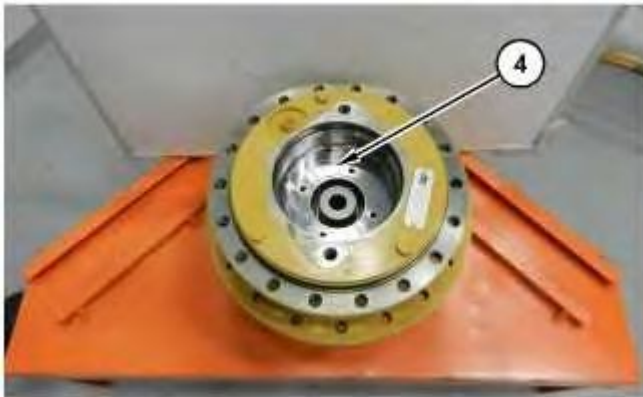


Illustration 3

g06172716

4. Remove plate (4).

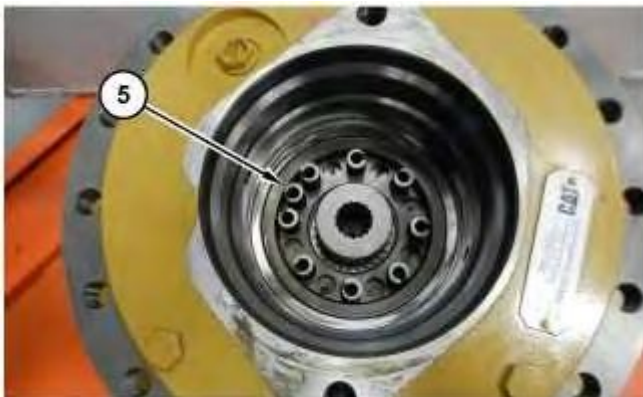


Illustration 4

g06172729

5. Remove springs (5).
-

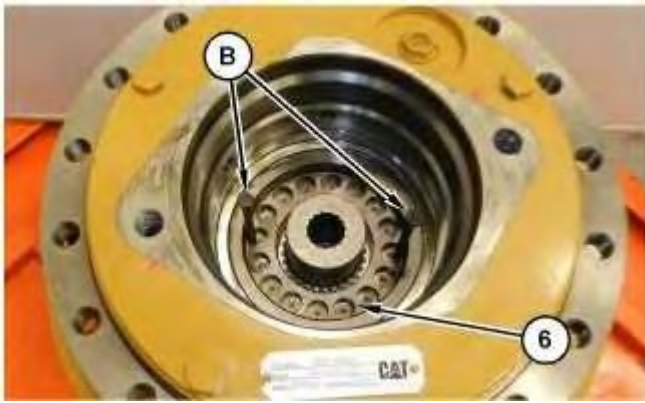


Illustration 5

g06172730

6. Use Tooling (B) to remove piston (6).



Illustration 6

g06172740

7. Remove discs (7) and the shims.



Illustration 7

g06172742

8. Remove backup rings (8) and O-ring seals (9).

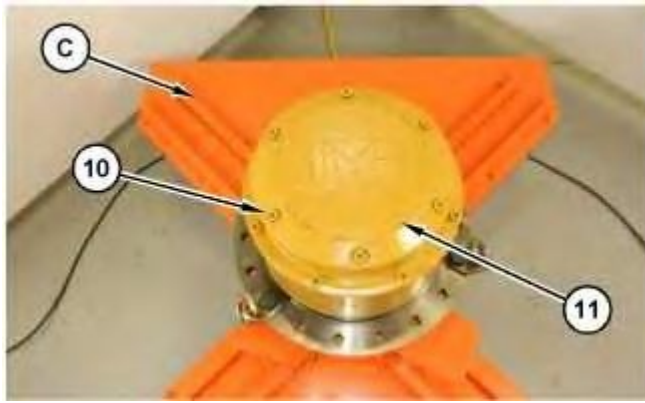


Illustration 8

g06172653

9. Secure the final drive to Tooling (C) or a suitable bench. The weight of the final drive is approximately 110 kg (243 lb).
10. Remove bolts (10) and cover (11).

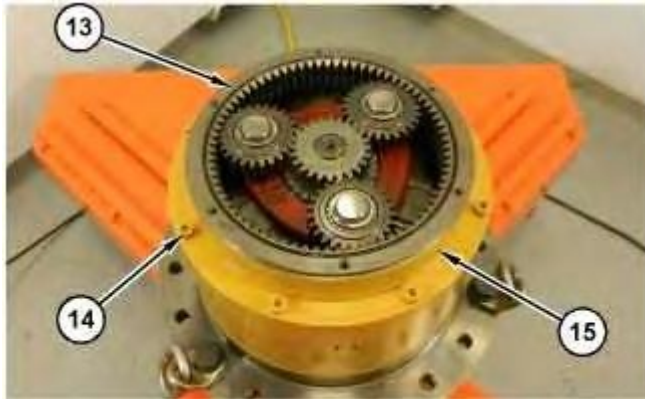


Illustration 9

g06172743

11. Remove O-ring seal (13), bolts (14), and gear (15).



Illustration 10

g06172748

12. Remove O-ring seal (16) from gear (15).



Illustration 11

g06172753

13. Remove gear (17) and carrier assembly (18).

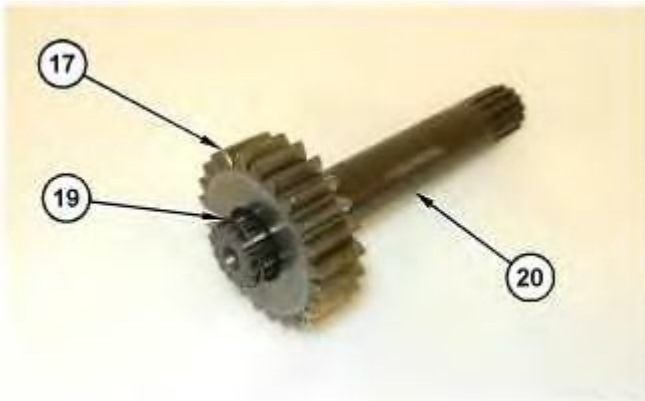


Illustration 12

g06172755

14. Remove retaining ring (19) and gear (17) from shaft (20).



Illustration 13

g06172752

15. Remove retaining rings (21).

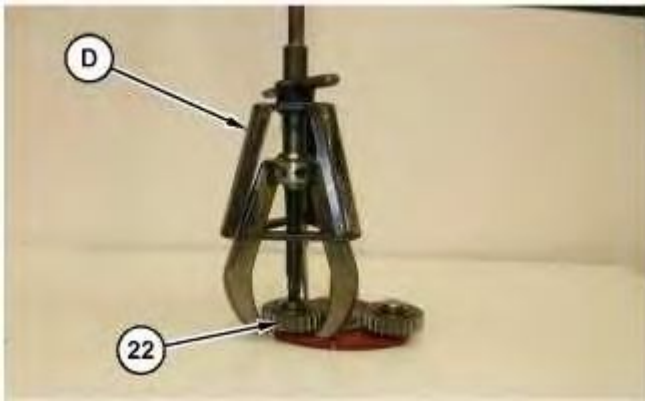


Illustration 14

g06172757

16. Use Tooling (D) to remove gears (22).



Illustration 15

g06172761

17. Remove retaining ring (24) and gear (23) from carrier assembly (18).



Illustration 16

g06172762

18. Remove carrier assembly (25).



Illustration 17

g06172766

19. Remove spacer (26) and retaining rings (27) from carrier assembly (25).

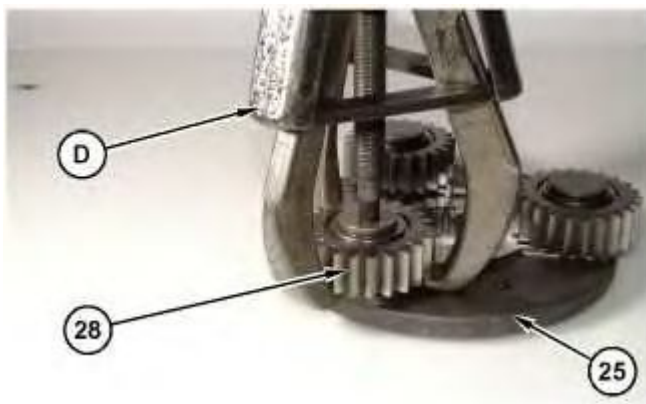


Illustration 18

g06172767

20. Use Tooling (B) to remove gears (28) from carrier assembly (25).



Illustration 19

g06172771

21. Remove gear (29).



Illustration 20

g06172772

22. Use pry bars to remove gear (30).



Illustration 21

g06172773

23. Remove retaining rings (31).

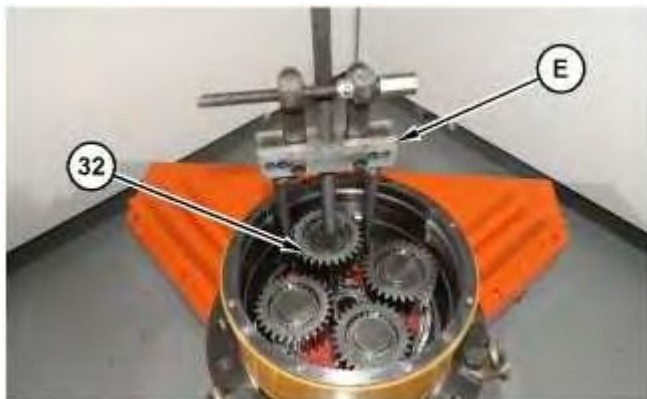


Illustration 22

g06172774

24. Use Tooling (E) to remove gears (32).



Illustration 23

g06172775



Illustration 24

g06172776

! 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.

25. Use Tooling (F) to remove bearing locknut (33).



Illustration 25

g06172777



Illustration 26

g06172778

26. Use Tooling (G) to separate hub (34).
27. Use Tooling (H) and a suitable lifting device to remove hub (34). The weight of hub (34) is approximately 37 kg (80 lb).



Illustration 27

g06172910

28. Remove bearing cone (35) from hub (34).



Illustration 28

g06172779

29. Remove duo-cone seal (36) from hub (34).



Illustration 29

g06172906

30. Remove bearing cups (37) from hub (34).



Illustration 30

g06173076

31. Use Tooling (J) to remove spacer (38) and bearing cone (39).



Illustration 31

g06173085

32. Remove duo-cone seal (40) from spindle (41).



Illustration 32

g06173089

33. Remove retaining ring (42) from spindle (41).
34. Use a soft faced hammer to remove shaft assembly (43) from the opposite side on spindle (41).



Illustration 33

g06173098

35. Remove retaining ring (44) and roller bearing (45) from shaft assembly (43).

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Final Drive Planetary - Assemble

SMCS - 4050-016; 4084-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	150-1782	Crossblock	1
	1U-5230	Hydraulic Pump Assembly	1
	126-7179	Puller Leg	2
	4C-4660	Adapter-Threaded	2
	3H-0465	Push-Puller Plate	4
	360-6956	Hydraulic Cylinder	1
C	1P-2420	Transmission Repair Stand	1
F	6V-6080	Torque Multiplier Gp	1
	524-2773	Socket As	1
H	439-3939	Link Bracket As	3
K	1U-6438	Duo-Cone Seal Installer As	1
L	-	Loctite 243	-
M	4C-3760	C-Clamp	2
N	159-9074	Installer As	1

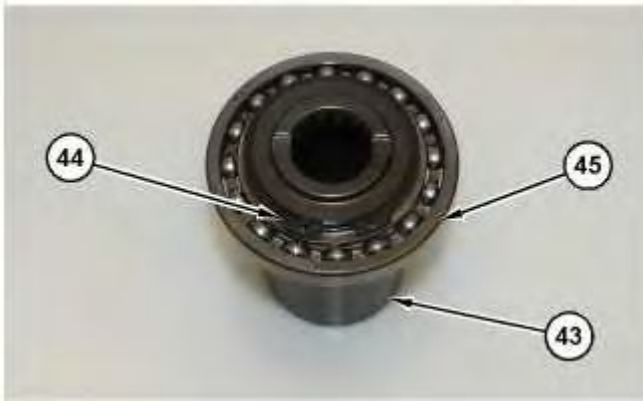


Illustration 1

g06173098

1. Install roller bearing (45) and retaining ring (44) onto shaft assembly (43).



Illustration 2

g06173089

2. Use a soft faced hammer to install shaft assembly (43) into spindle (41).
3. Install retaining ring (42) into spindle (41).



Illustration 3

g06176752



Illustration 4

g06173085

4. Use Tooling (K) to install duo-cone seal (40) onto spindle (41). Refer to Disassembly and Assembly, Duo-Cone Conventional Seals - Install in this manual.



Illustration 5

g06176820

5. Raise the temperature of bearing cone (39) and spacer (38). Install bearing cone (39) and spacer (38) onto spindle (41).



Illustration 6

g06172906

6. Lower the temperature of bearing cups (37). Install bearing cups (37) into hub (34).

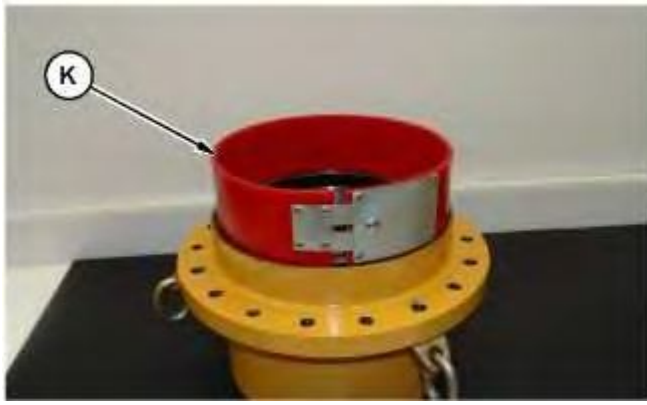


Illustration 7

g06175464



Illustration 8

g06172779

7. Use Tooling (K) to install duo-cone seal (36) into hub (34). Refer to Disassembly and Assembly, Duo-Cone Conventional Seals - Install in this manual.



Illustration 9

g06172778

8. Use Tooling (H) and a suitable lifting device to install hub (34). The weight of hub (34) is approximately 37 kg (80 lb).



Illustration 10

g06176829

9. Use Tooling (M) to compress hub (34).



Illustration 11

g06176839

10. Raise the temperature of bearing cone (35). Install bearing cone (35) into hub (34).



Illustration 12

g06172775

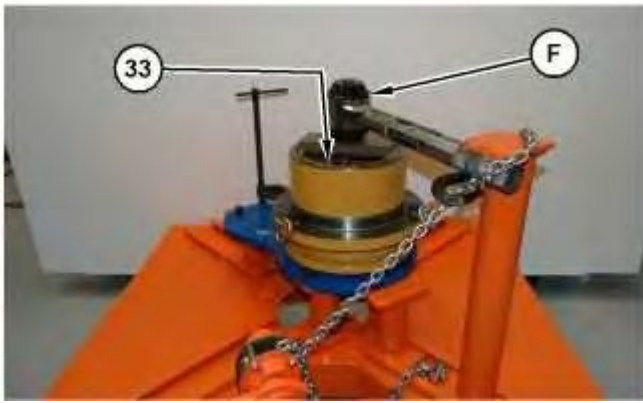


Illustration 13

g06176844

! WARNING

Improper assembly of parts that are spring loaded can cause bodily injury.

To prevent possible injury, follow the established assembly procedure and wear protective equipment.

11. Apply Tooling (L) to bearing locknut (33). Install bearing locknut (33).
12. Use Tooling (F) to tighten bearing locknut (33) to a torque of 2000 N·m (1475 lb ft).



Illustration 14

g06175460

13. Use Tooling (N) to install gears (32). Install retaining rings (31).



Illustration 15

g06175461

14. Install gear (30) and gear (29).



Illustration 16

g06175463

15. Install spacer (26), gears (28), and retaining rings (27) onto carrier assembly (25).



Illustration 17

g06172762

16. Install carrier assembly (25).



Illustration 18

g06175465

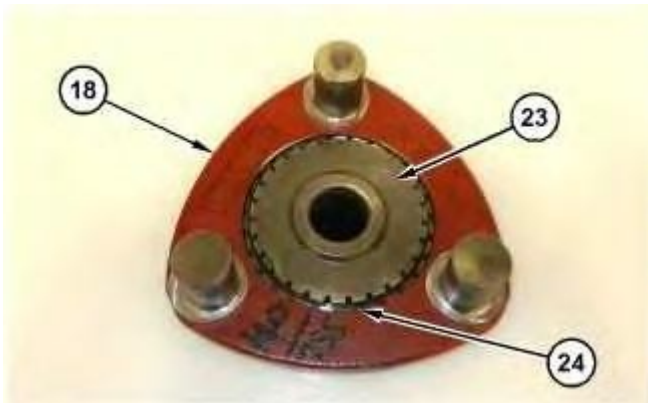


Illustration 19

g06172761

17. Install gear (23) and retaining ring (24) onto carrier assembly (18).



Illustration 20

g06175466

18. Install gears (22) and retaining rings (21) onto the carrier assembly.

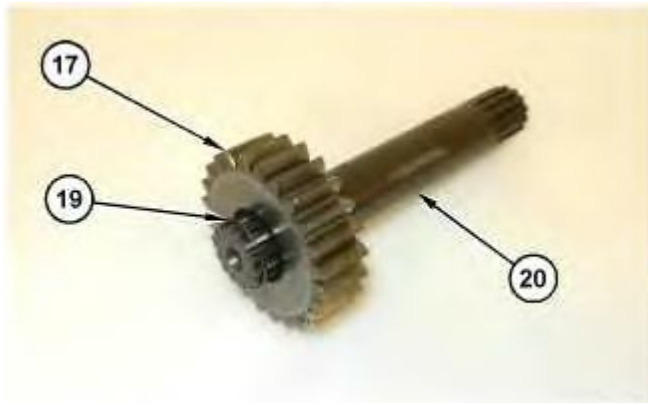


Illustration 21

g06172755

19. Install gear (17) and retaining ring (19) onto shaft (20).



Illustration 22

g06172753

20. Install carrier assembly (18) and gear (17).



Illustration 23

g06172748

21. Install O-ring seal (16) onto gear (15).

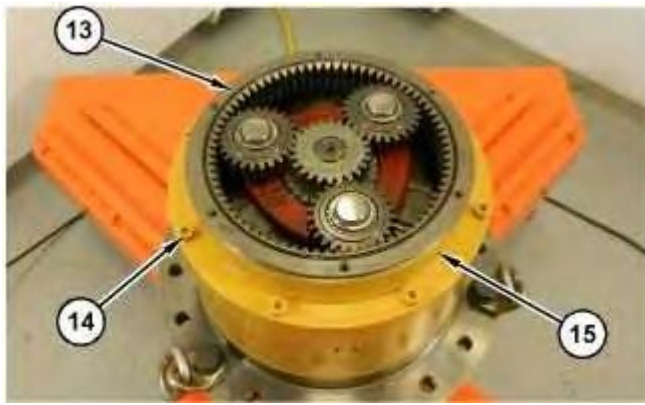


Illustration 24

g06172743

22. Install gear (15), bolts (14), and O-ring seal (13).

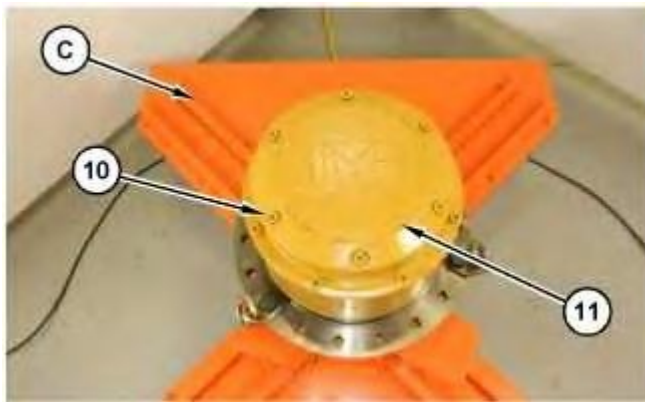


Illustration 25

g06172653

23. Install cover (11) and bolts (10).

24. Remove the final drive from Tooling (C) or a suitable bench. The weight of the final drive is approximately 110 kg (243 lb).



Illustration 26

g06172742

25. Install backup rings (8) and O-ring seals (9).

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