Model: CS-423E VIBRATORY COMPACTOR AST

Configuration: CS-423E Vibratory Compactor AST00001-UP (MACHINE) POWERED BY 3054C Engine

Disassembly and Assembly CP-433E, CS-423E and CS-433E

Vibratory Compactors Machine Systems

Media Number -KENR3584-05

Publication Date -01/09/2008

Date Updated -29/09/2008

i02070626

Axle (without Brakes) - Disassemble

SMCS - 3260-015; 3278-015

Disassembly Procedure

Table 1

Required Tools				
Tool	Part Number	Part Description	Qty	
A	8H-0700	Bearing Puller	1	
В	1P-1859	Retaining Ring Pliers	1	
С	1P-0510	Driver Gp	1	
D	154-6182	Forcing Bolt	2	
Е	138-7573	Link Bracket	2	

Start By:

- A. Remove the axle. Refer to Disassembly and Assembly, "Axle Remove".
- 1. Drain the oil from the differential into a suitable container. The capacity of the differential is approximately 9 L (2.4 US gal).

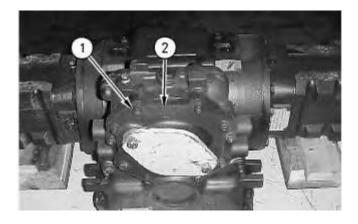


Illustration 1 g00847459

- 2. Drain the oil from the gearbox into a suitable container. The capacity of the gearbox is approximately $1.2\ L$ ($0.3\ US\ gal$).
- 3. Remove the bolts and the propel motor from the gearbox. Install the cover and the bolts on the gearbox.
- 4. Remove bolts (1) and cover (2).

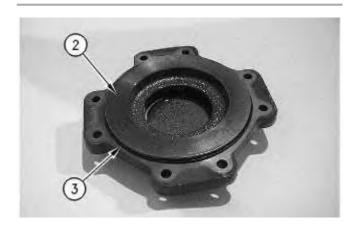


Illustration 2 g00847460

5. Remove O-ring seal (3) from cover (2).

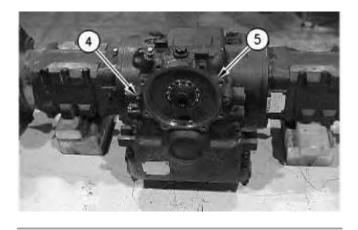


Illustration 3 g00847461

6. Remove bolts (4) and cover (5).

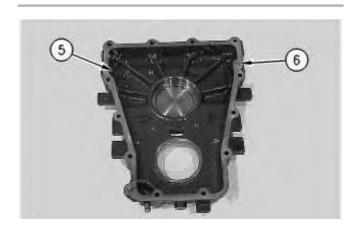


Illustration 4 g00847462

7. Remove dowels (6) from cover (5).

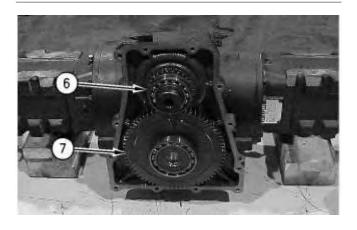


Illustration 5 g00847463

8. Remove gear (6) and gear (7).

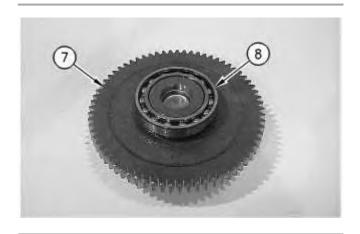


Illustration 6 g00847464

9. Use Tooling (A) and remove bearing (8) from gear (7).

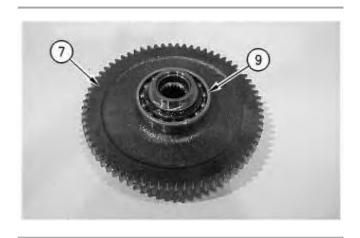


Illustration 7 g00847465

10. Use Tooling (A) and remove bearing (9) from gear (7).

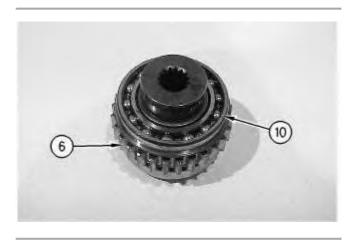


Illustration 8 g00847466

11. Use Tooling (A) and remove bearing (10) from gear (6).

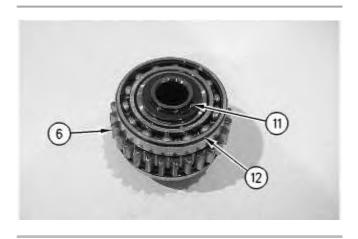


Illustration 9 g00847467

12. Use Tooling (B) to remove retaining ring (11). Use Tooling (A) and remove bearing (12) from gear (6) .

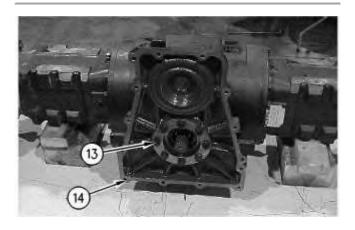


Illustration 10 g00847468

13. Remove bolts (13) and remove cover (14).



Illustration 11 g00847469

- 14. Drain the oil from the wheel hub into a suitable container. The capacity of the wheel hub is approximately 1.3 L (0.3 US gal).
- 15. Remove screws (15) and end cover (16).

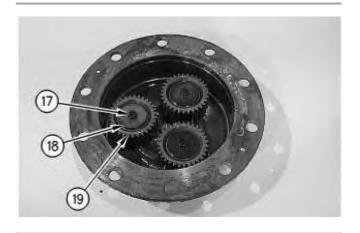


Illustration 12 g00847471

16. Remove bolts (17), washers (18), gears (19), and the 84 needle bearings.

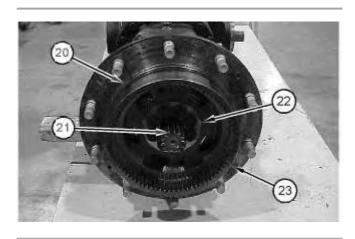


Illustration 13 g01064656

17. Remove O-ring seal (20) from ring gear (23).

- 18. Remove shaft (21).
- 19. Remove bolts (22).



Illustration 14 g01064989

20. Install bolts (22) to ring gear (23), as shown. Turn the bolts evenly in order to remove the sun gear.

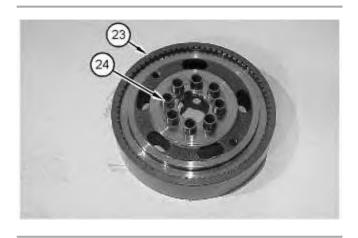


Illustration 15 g01064990

21. Use a suitable press and remove bushings (24) from ring gear (23).

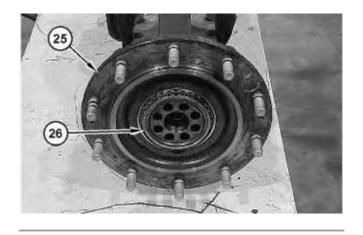


Illustration 16

g01061619

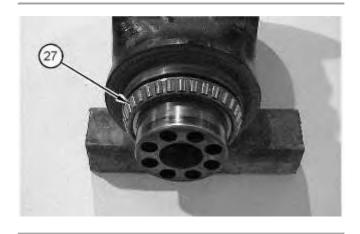


Illustration 17

g01061625

22. Remove bearing cone (26), hub (25), and bearing cone (27).

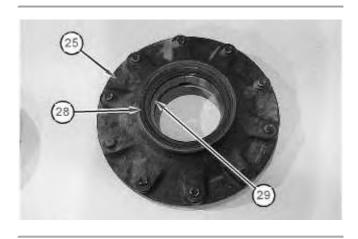


Illustration 18

g01061629

- 23. Remove lip seal (28) and bearing cups (29) from hub (25).
- 24. Repeat Steps 14 through 23 in order to disassemble the other wheel hub.



Illustration 19 g01061632

25. Remove left shaft assembly (30) from the axle.

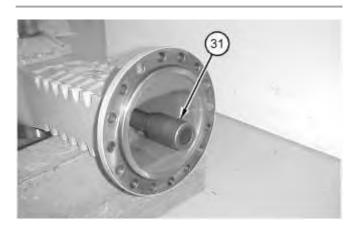


Illustration 20 g01061633

26. Remove right shaft assembly (31) from the axle.

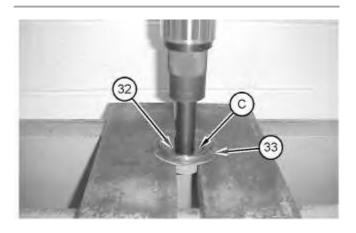


Illustration 21 g01066506

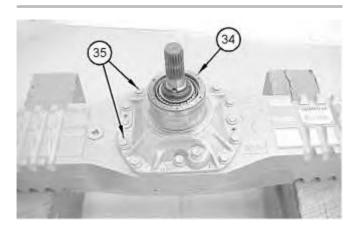


Illustration 22 g01064991

- 27. Remove cover (32) from differential and bevel gear (34). Remove seal (33) from cover (32) with Tooling (C) and a suitable press.
- 28. Remove bolts (35).

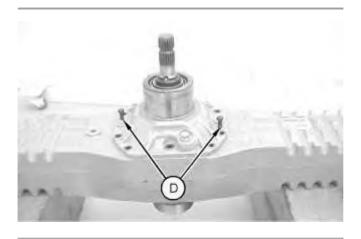


Illustration 23 g01066509

29. Install Tooling (D) in the differential and bevel gear. Turn Tooling (D) evenly in order to separate the differential and bevel gear from the axle. Remove Tooling (D).

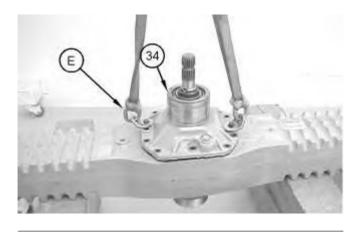


Illustration 24 g01066510

30. Attach Tooling (E) and a suitable lifting device to the differential and bevel gear (34). Remove the differential and bevel gear. The weight of the differential and bevel gear is approximately 28 kg (62 lb).

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Publication Date -01/09/2008

Date Updated -29/09/2008

i02070847

Axle (with Brakes) - Disassemble

SMCS - 3260-015; 3278-015

Disassembly Procedure

Table 1

Required Tools				
Tool	Part Number	Part Description	Qty	
A	8H-0663	Bearing Puller Gp	1	
В	1P-1863	Retaining Ring Pliers	1	
С	180-3032	Stand	2	
D	1P-1861	Retaining Ring Pliers	1	
Е	1P-1855	Retaining Ring Pliers	1	

Start By:

- A. Remove the axle. Refer to Disassembly and Assembly, "Axle Remove".
- 1. Drain the oil from the differential into a suitable container. The capacity of the differential is approximately 12 L (3 US gal).
- 2. Remove the bolts and the axle propel motor from the gearbox. Install the cover and the bolts.

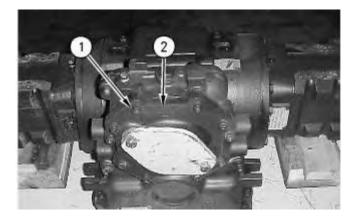


Illustration 1 g00847459

- 3. Drain the oil from the gearbox into a suitable container. The capacity of the gearbox is approximately $1.2\ L$ ($0.3\ US\ gal$).
- 4. Remove bolts (1) and cover (2).

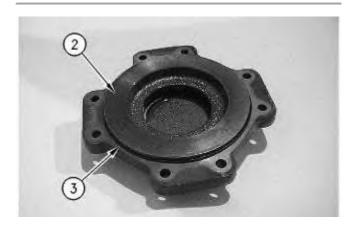


Illustration 2 g00847460

5. Remove O-ring seal (3) from cover (2).

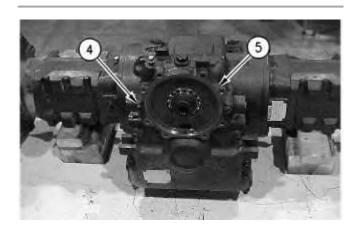


Illustration 3 g00847461

6. Remove bolts (4) and cover (5).

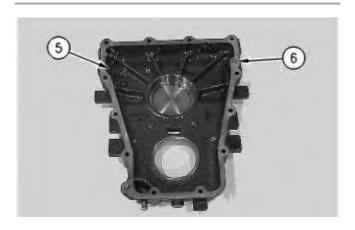


Illustration 4 g00847462

7. Remove dowels (6) from cover (5).

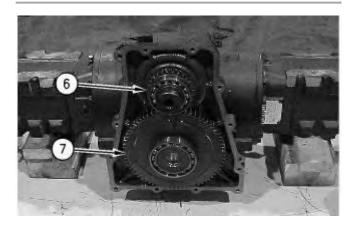


Illustration 5 g00847463

8. Remove gear (6) and (7).

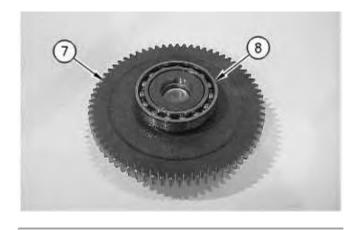


Illustration 6 g00847464

9. Use Tooling (A) and a suitable press to remove bearing (8) from gear (7).

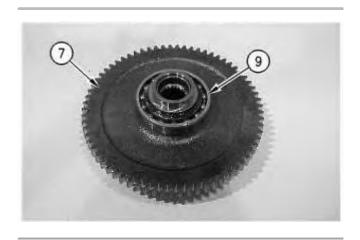


Illustration 7 g00847465

10. Use Tooling (A) and a suitable press to remove bearing (9) from gear (7) .

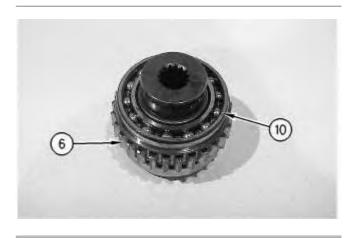


Illustration 8 g00847466

11. Use Tooling (A) and a suitable press to remove bearing (10) from gear (6).

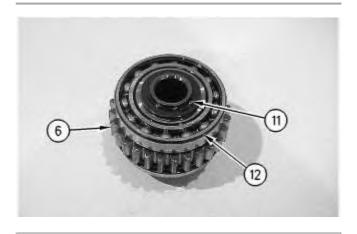


Illustration 9 g00847467

12. Use Tooling (B) to remove retaining ring (11). Use Tooling (A) and a suitable press to remove bearing (12) from gear (6).

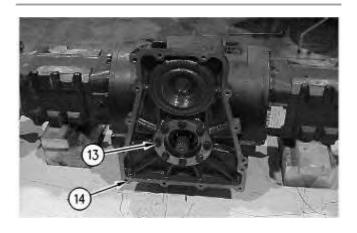


Illustration 10 g00847468

13. Remove bolts (13) and remove cover (14).

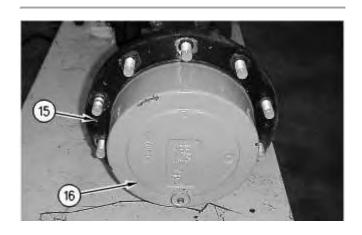


Illustration 11 g00847469

14. Drain the oil from the wheel hub into a suitable container. The capacity of the wheel hub is approximately 1.3 L (0.3 US gal).

15. Remove screws (15) and end cover (16).

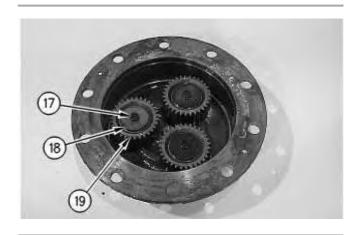


Illustration 12 g00847471

16. Remove bolts (17), washers (18), planetary gears (19), and the 84 needle bearings.

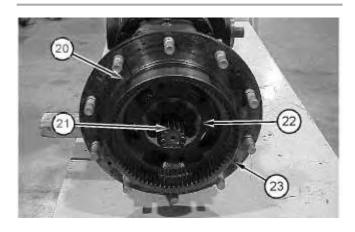


Illustration 13 g01061929

17. Remove O-ring seal (20) from ring gear (23).

- 18. Remove shaft (21).
- 19. Remove bolts (22).

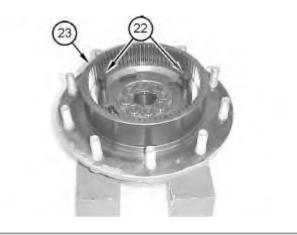


Illustration 14 g01065545

20. Install two bolts (22) to ring gear (23), as shown. Turn the bolts evenly in order to remove the ring gear. Discard bolts (22).

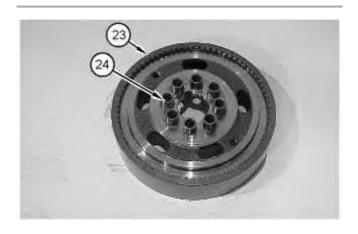


Illustration 15 g01065550

21. Use a suitable press and remove bushings (24) from ring gear (23).

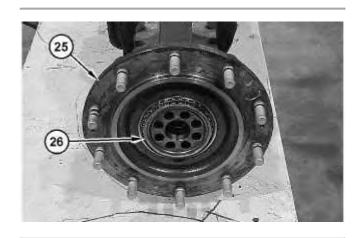


Illustration 16 g01061619

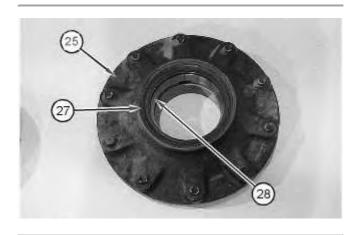


Illustration 17 g01066679

- 23. Remove lip seal (27) and bearing cups (28) from hub (25).
- 24. Repeat Steps 14 through 23 in order to disassemble the other wheel hub.

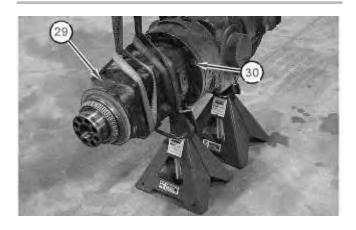


Illustration 18 g01061899

Note: During the removal of the housing, place a suitable jack under the other end of the axle.

25. Attach a suitable lifting device to the axle. Position the axle on Tooling (C), as shown. Remove bolts (30) and remove housing (29). The weight of housing (29) is approximately 41 kg (90 lb).

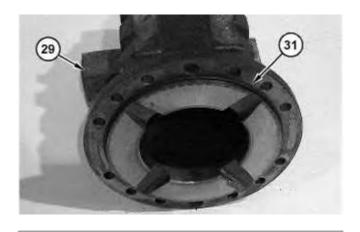


Illustration 19 g01061900

26. Remove O-ring seal (31) from housing (29) .

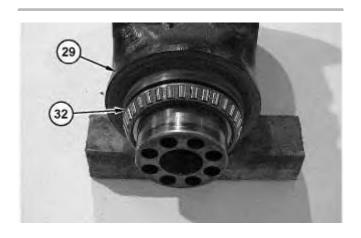


Illustration 20 g01061901

27. Remove bearing cone (32) from housing (29).

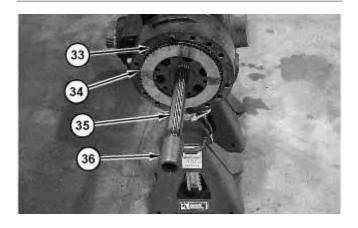


Illustration 21 g01061903

28. Remove coupling (36) from shaft (35).

29. Remove steel discs (34), friction discs (33), and shaft (35) from the axle.

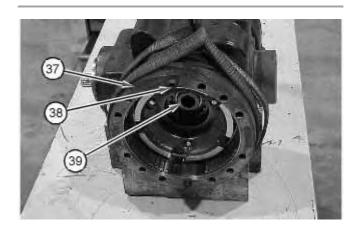


Illustration 22 g01061904

- 30. Attach a suitable lifting device to housing (37). Remove bolts (38) and remove housing (37). The weight of housing (37) is approximately 50 kg (110 lb).
- 31. Repeat Steps 24 through 30 in order to remove the other housing.
- 32. Remove gear assembly (39).

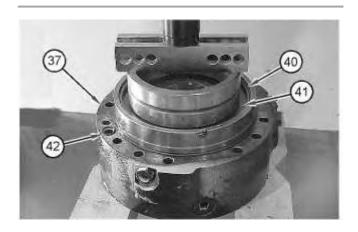


Illustration 23

g01061907

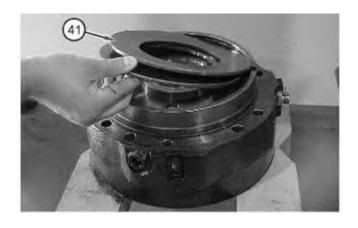


Illustration 24 g01061909

MARNING

Sudden release of spring force can cause injury.

To prevent the possibility of injury, follow the procedure to relieve the spring pressure.

- 33. Remove O-ring seal (42) from housing (37).
- 34. Put housing (37) in a suitable press. Apply pressure on spring washers (41). Use Tooling (D) to remove retaining ring (40).
- 35. Release the pressure on spring washers (41) and remove the spring washers from housing (37).

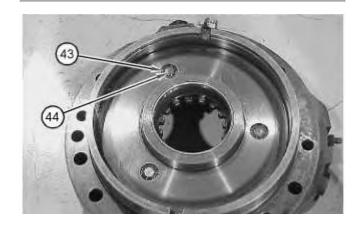


Illustration 25 g01061911

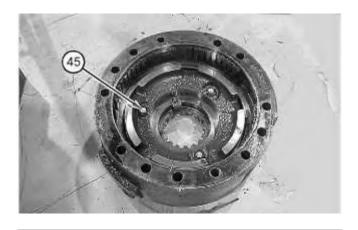


Illustration 26 g01061912

36. Use Tooling (E) to remove retaining rings (43). Remove bolts (45) and piston assemblies (44).

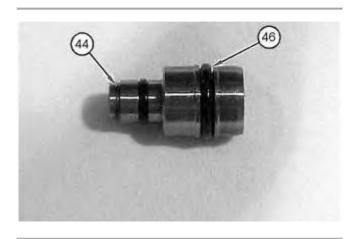


Illustration 27 g01061913

37. Remove O-ring seals (46) from piston assemblies (44).

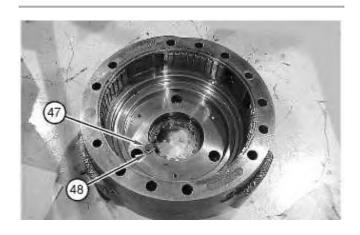


Illustration 28 g01061915

38. Remove bolt (47) and retainer (48).

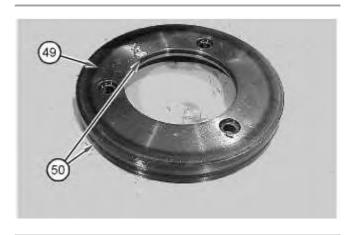


Illustration 29 g01061917

- 39. Remove O-ring seals (50) from brake piston (49).
- 40. Repeat Steps 33 through 39 in order to disassemble the other housing.

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