

Product: COMPACTOR

Model: CB8 COMPACTOR CB8

Configuration: CB8 Asphalt Compactor CB800001-UP (MACHINE) POWERED BY C3.4B Engine

## Disassembly and Assembly CB7 and CB8 Vibratory Asphalt Compactor Machine Systems

Media Number -M0078953-00

Publication Date -01/01/2017

Date Updated -26/01/2017

i07500816

# Eccentric Weight - Remove and Install - Solid Drum

SMCS - 6606-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	306-3351	C-Frame As	1
	306-3352	Adapter As	1
B	-	Loctite 242	-

### Start By:

- a. Release system pressure.
- b. Engage steering frame lock.



**WARNING**

**Personal injury can result from hydraulic oil pressure and hot oil.**

**Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.**

**Make sure all of the work tools have been lowered to the ground, and the oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.**



Illustration 1

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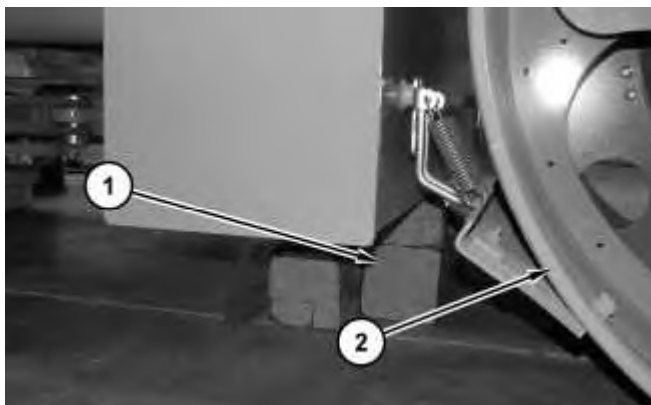


Illustration 2

g03004236

1. Use suitable lifting device, place vibratory compactor on suitable cribbing (1). Ensure that drum (2) maintains contact with the ground.

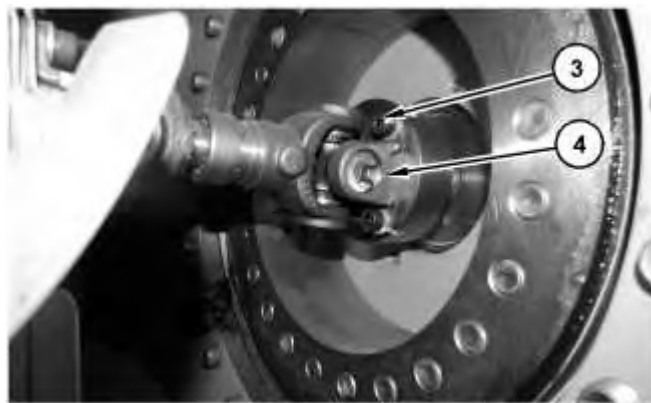


Illustration 3

g06339796

2. Remove drive shaft bolts (3) and disconnect drive shaft (4).
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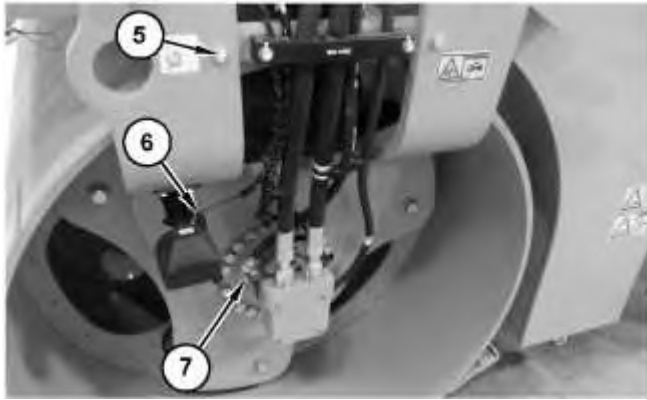


Illustration 4

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3. Remove bolts (5), (7). Disconnect harness assembly (6).

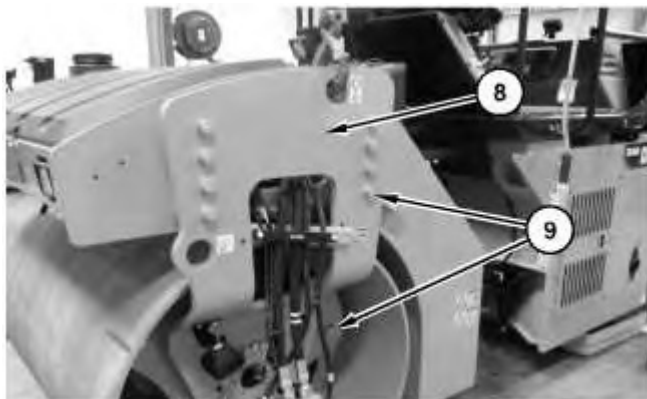


Illustration 5

g06339802

4. Attach a suitable lifting device to support assembly (8). The weight of support assembly (8) is approximately 320 kg (705 lb). Remove bolts (9) and support assembly (8).



Illustration 6

g06339807

5. Remove the top four bolts (11) that fasten the eccentric weight to the drum.
6. Remove bolt (10).



Illustration 7

g06339810

7. Attach Tooling (A) and a suitable lifting device to eccentric weight assembly (11).
8. Remove rest of bolts (11) and eccentric weight assembly (12) from the drum. The weight of eccentric weight assembly (12) is approximately 210 kg (463 lb).

## Installation Procedure

1. Install eccentric weight assembly (12) in the reverse order of removal.
    - a. Use Tooling (B) to install drive shaft (4).
    - b. Apply Tooling (B) to all bolts before assembly.
    - c. Align the boss on drum with eccentric weight assembly on sight glass.
    - d. Install two bolts (10) on each side top and bottom hand tight. Install remaining bolts (9) and tighten all bolts (9) to a torque of  $460 \pm 60 \text{ N}\cdot\text{m}$  ( $339 \pm 44 \text{ lb ft}$ ).
    - e. Tighten drive shaft bolts (3) to a torque of  $31 \text{ N}\cdot\text{m}$  ( $23 \text{ lb ft}$ ) using a criss cross pattern repeat three times.
-

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## Disassembly and Assembly CB7 and CB8 Vibratory Asphalt Compactor Machine Systems

Media Number -M0078953-00

Publication Date -01/01/2017

Date Updated -26/01/2017

i07181301

# Eccentric Weight - Remove and Install - Oscillation

SMCS - 6606-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	420-2048	C-Frame As	1

### Start By:

- a. Remove the drum.

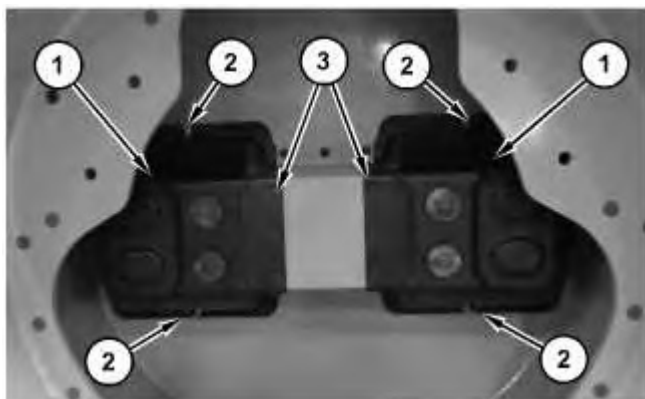


Illustration 1

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1. Remove four locknuts (2), the four washers, 11 bolts (3), the 11 washers, and two covers (1).

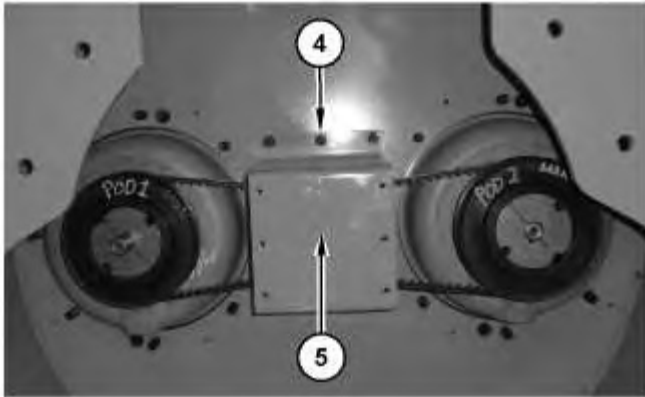


Illustration 2

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2. Remove six bolts (4), the six washers, and cover (5).

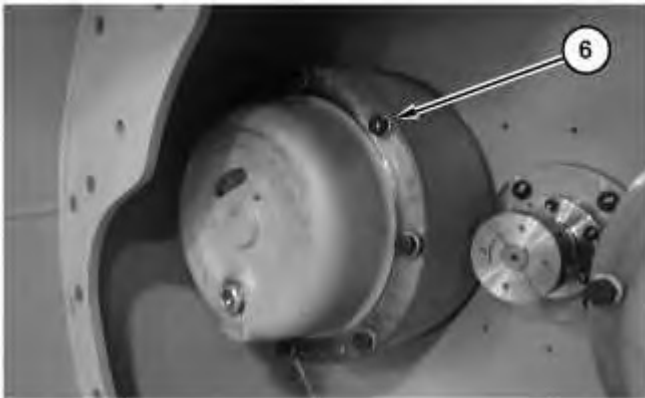


Illustration 3

g06123804

3. On the opposite side, loosen eight bolts (6). Use a large pry bar to move the eccentric weight assembly towards the center of the drum.

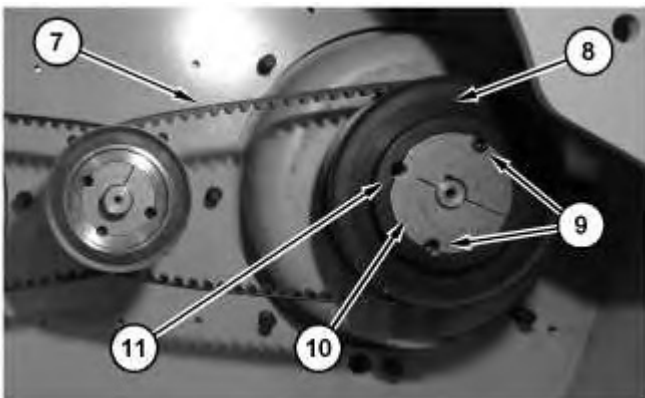


Illustration 4

g06123814

4. Remove two setscrews (9)

5. Install one setscrew (9) into hole (11). Tighten setscrew (11) until bushing (10) comes loose from the taper and can be removed. Remove bushing (10) and the key. Remove pulley (8) and belt (7).

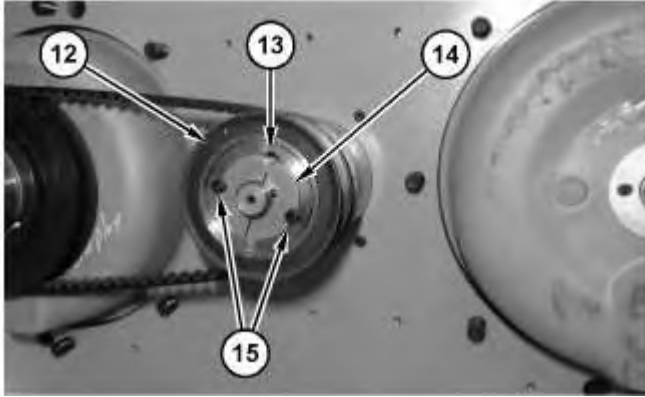


Illustration 5

g06123851

6. Remove two setscrews (15).
7. Install one setscrew (15) into hole (13). Tighten setscrew (15) until bushing (14) comes loose from the taper and can be removed. Remove bushing (14) and the key. Remove pulley (12).



Illustration 6

g06123838

8. On the opposite side, loosen eight bolts (16). Use a large pry bar to move the eccentric weight assembly towards the center of the drum.
-

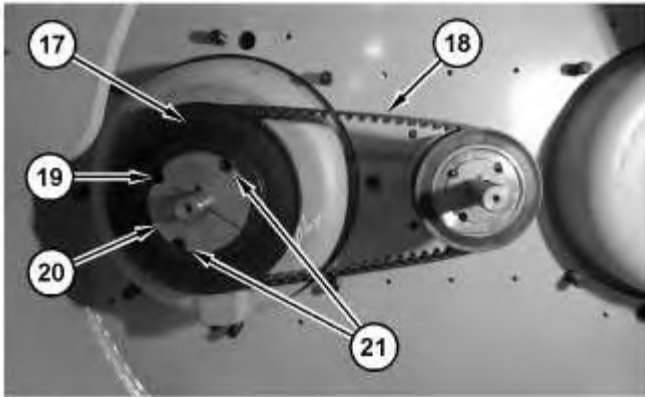


Illustration 7

g06123846

9. Remove two setscrews (21).
10. Install one setscrew (21) into hole (19). Tighten setscrew (21) until bushing (20) can be removed. Remove bushing (20) and the key. Remove pulley (17) and belt (18).

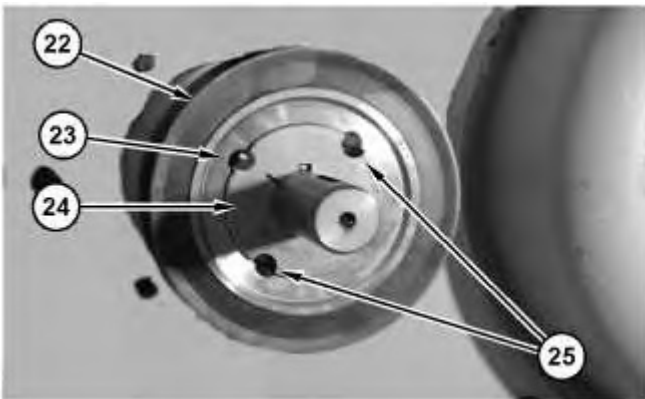


Illustration 8

g06124174

11. Remove two setscrews (25).
12. Install one setscrew (25) into hole (23). Tighten setscrew (25) until bushing (24) can be removed. Remove bushing (24) and the key. Remove pulley (22).

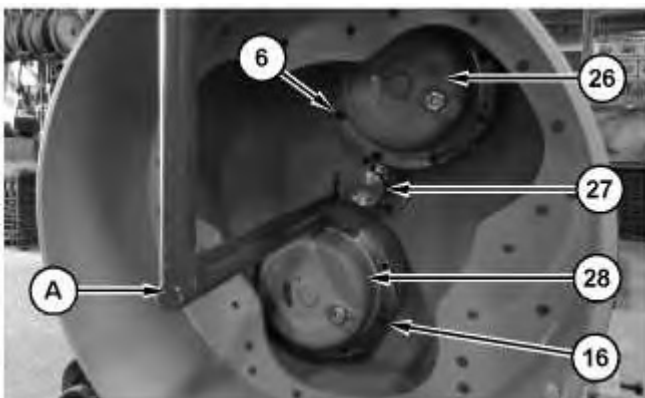


Illustration 9

g06147361

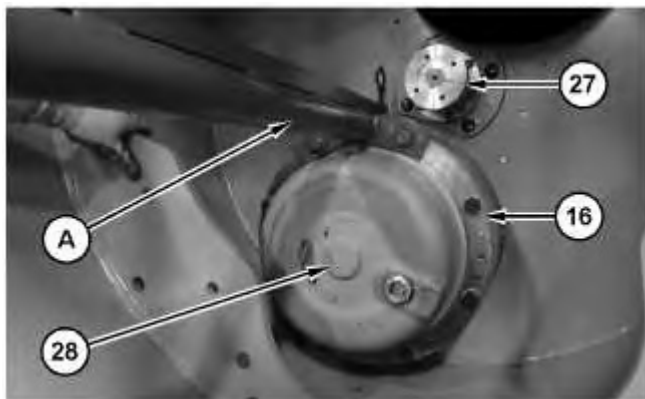


13. Attach a suitable lifting device and Tooling (A) to eccentric weight assembly (28). The weight of eccentric weight assembly (28) is approximately 113 kg (250 lb). Remove eight bolts (16), the eight washers, and eccentric weight assembly (28).
14. Attach a suitable lifting device and Tooling (A) to eccentric weight assembly (26). The weight of eccentric weight assembly (26) is approximately 113 kg (250 lb). Remove eight bolts (6), the eight washers, and eccentric weight assembly (26).
15. Remove the four bolts, the four washers, and drive assembly (27).

## Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	420-2048	C-Frame As	1
B	FT3327	Plate	1
	501-2183	Coupling Hub	1
	8T-4189	Bolts	4
	8T-4224	Hard Washers	4
	8T-6912	Bolt	1
	160-0017	Bolt	1
	8T-1757	Nuts	2
C	FT3330	Pulley Lock	1
	8T-4140	Bolt	1
D	502-1423	Belt Tensioner Meter	1
E	-	Loctite 243	1



**Note:** The eccentric weight pods are to be installed with the sight glass facing the drum "Boss".

1. Attach a suitable lifting device and Tooling (A) to eccentric weight assembly (28). The weight of eccentric weight assembly (28) is approximately 113 kg (250 lb). Install eccentric weight assembly (28), eight bolts (16), and the eight washers. Do not torque eight bolts (16).
2. Install drive assembly (27), the four bolts, and the four washers.

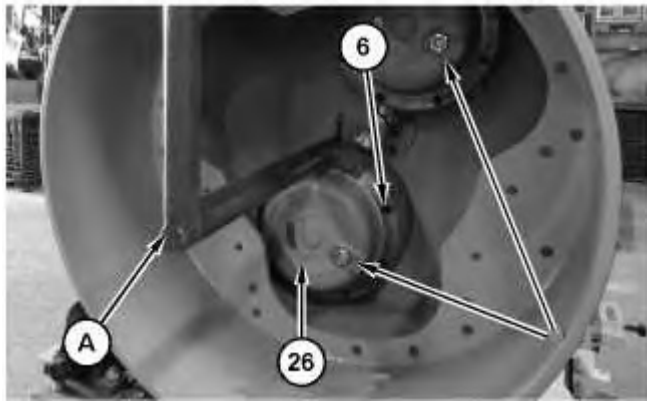


Illustration 11

**Note:** The eccentric weight pods are to be installed with the sight glass facing the drum "Boss".

3. Attach a suitable lifting device and Tooling (A) to eccentric weight assembly (26). The weight of eccentric weight assembly (26) is approximately 113 kg (250 lb). Install eccentric weight assembly (26), eight bolts (6), and the eight washers. Do not torque eight bolts (6).

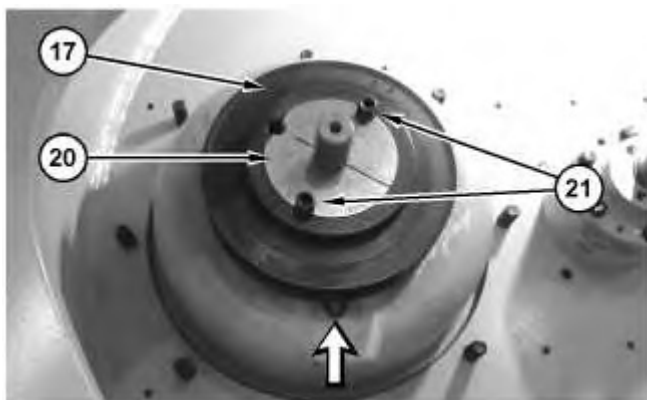


Illustration 12

4. Install the key, pulley (17), bushing (20), and two setscrews (21). Place a washer between the eccentric weight housing and pulley (17). Tighten two setscrews (21). Remove the washer. Do not torque two setscrew (21) at this time.
-

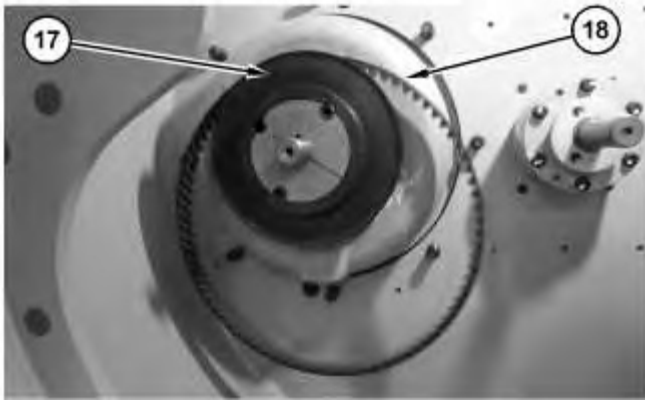


Illustration 13

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5. Place belt (18) onto pulley (17).



Illustration 14

g06124238

6. Install the key, belt (18), and pulley (22) onto the shaft.

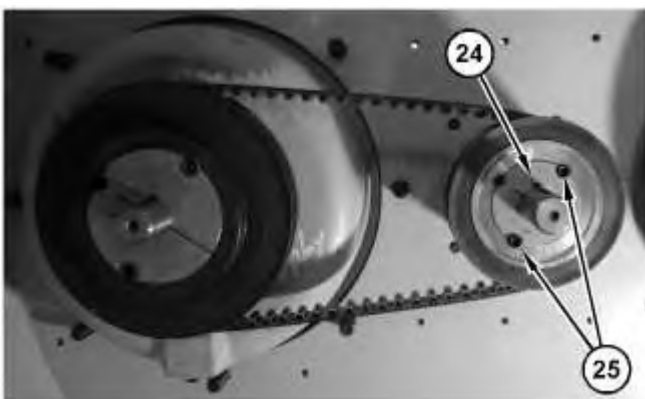


Illustration 15

g06124283

7. Install two setscrews (25) and bushing (24). Do not torque two setscrews (25) at this time. Verify that both key ways are in the upward position.

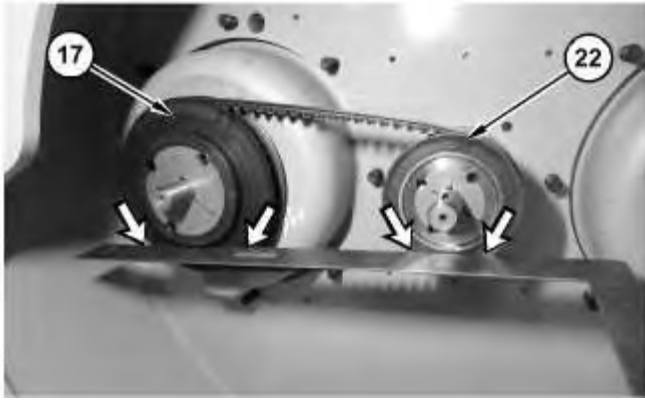


Illustration 16

g06124335

8. Use a straight edge to verify that pulley (17) and pulley (22) are parallel.



Illustration 17

g06148762

9. Illustration above shows Tool (B) assembled.



Illustration 18

g06124356

10. Install Tooling (B) to the shaft. Tighten two setscrews (21) to a torque listed in table 3

Table 3

<b>Torque Chart</b>
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Models	Torque
CB44B, CB7, CB8	$91 \pm 5 \text{ N}\cdot\text{m}$ ( $67 \pm 4 \text{ lb ft}$ )
CB54B, CB10	$32 \pm 5 \text{ N}\cdot\text{m}$ ( $283 \pm 44 \text{ lb in}$ )



Illustration 19

g06244157

11. Install Tooling (B) to the shaft. Tighten two setscrews (25) to a torque of  $32 \pm 5 \text{ N}\cdot\text{m}$  ( $283 \pm 44 \text{ lb in}$ ).

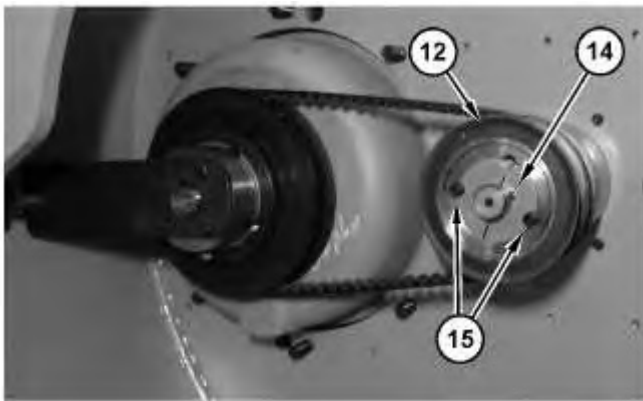
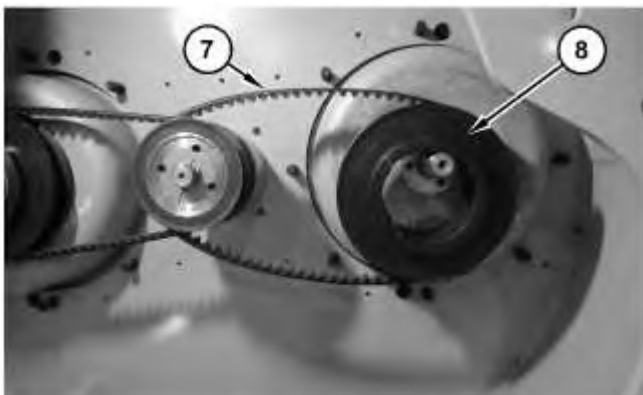


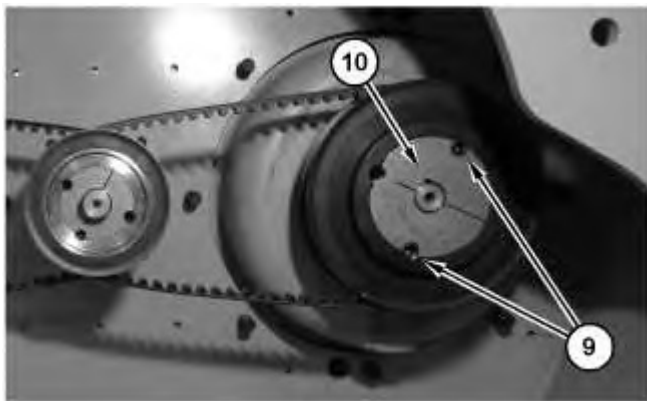
Illustration 20

g06124378

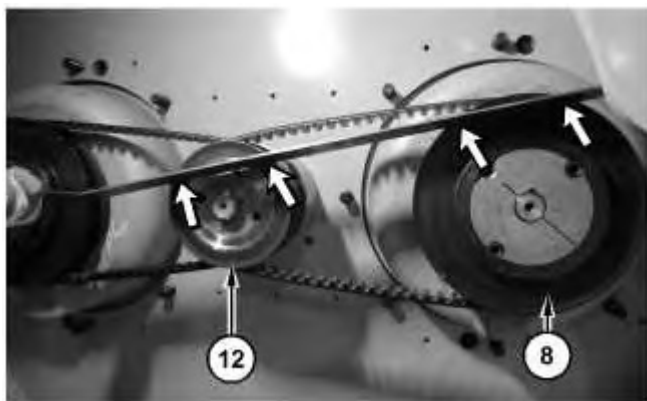
12. Install the key, pulley (12), bushing (14), and two setscrews (15). Tighten two setscrews (15) to a torque of  $32 \pm 5 \text{ N}\cdot\text{m}$  ( $283 \pm 44 \text{ lb in}$ ).



13. Install the key, belt (7), and pulley (8) onto the shaft.



14. Install two setscrews (9) and bushing (10). Verify that the key way is 180 degrees from the other two key ways. Remove Tooling (B).



15. Use a straight edge to verify that pulley (12) and pulley (8) are parallel.



16. Tighten two setscrews (9) to a torque listed in chart 3. Remove Tooling (B).

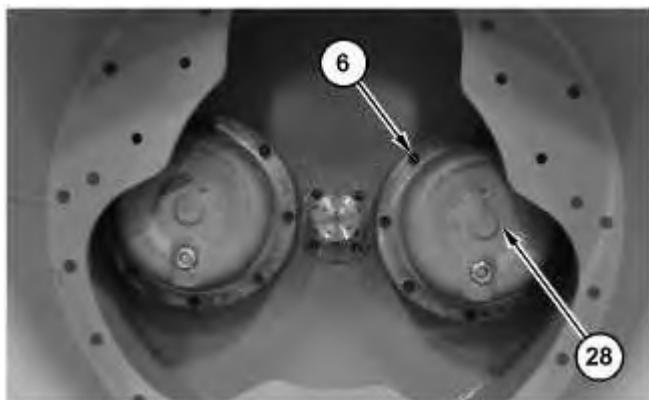


Illustration 25

17. Loosen eight bolts (6) on eccentric weight assembly (28).



Illustration 26

18. Illustration above shows Tool (C) assembled.

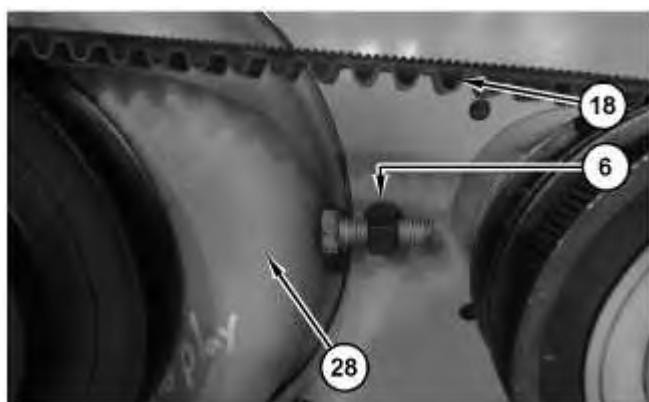


Illustration 27

19. Install Tooling (C) to bolt (6) on eccentric weight assembly (28). Adjust Tooling (C) to increase the tension on belt (18).

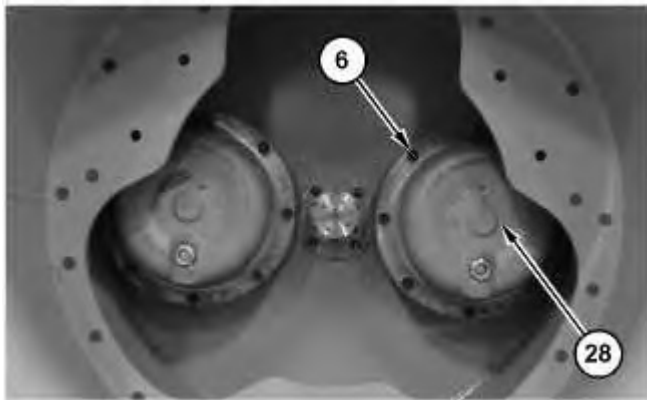


Illustration 28

g06124759

20. Tighten bolts (6).

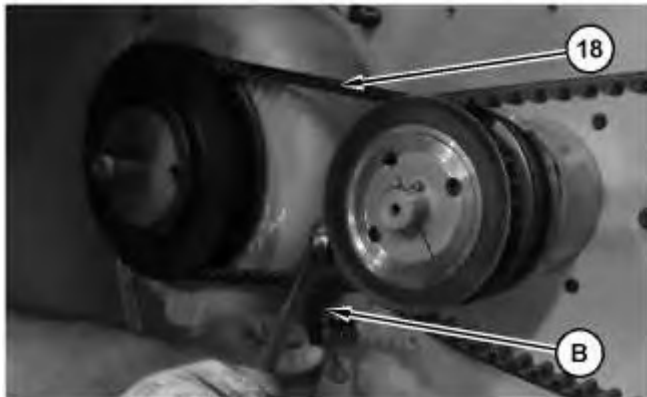


Illustration 29

g06124846

21. Use Tooling (D) to measure belt tension. The static tension should be 250-641 Newtons. Strike at the middle of belt (18) while holding the microphone pickup from Tooling (D) under belt (18).

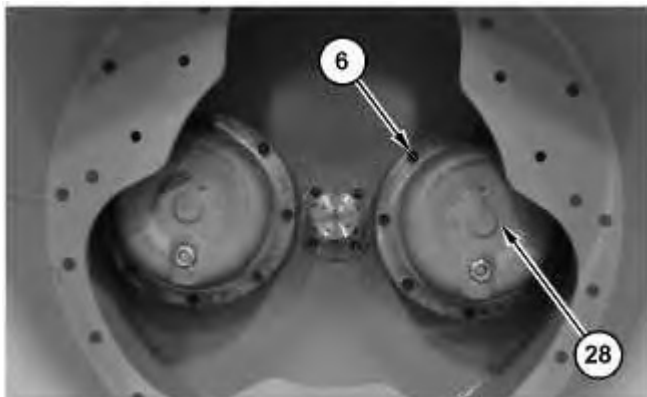


Illustration 30

g06124759



22. Remove one bolt at a time and apply Tooling (E). Tighten bolts (6) to a torque of  $240 \pm 40 \text{ N}\cdot\text{m}$  ( $177 \pm 30 \text{ lb ft}$ ).

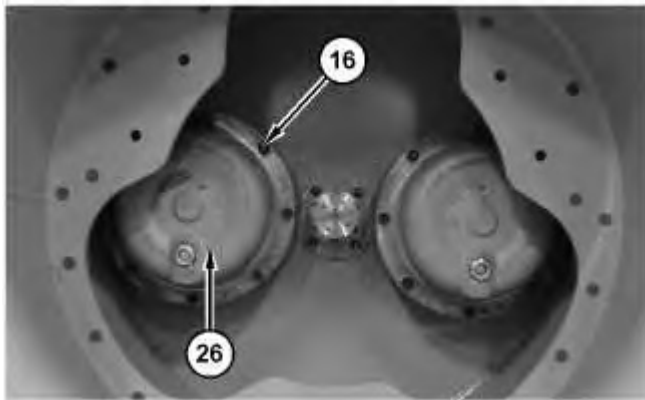


Illustration 31

g06125067

23. Loosen eight bolts (16) on eccentric weight assembly (26).

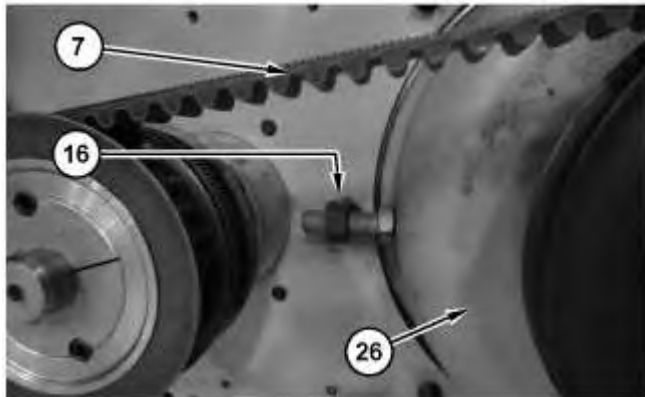


Illustration 32

g06125075

24. Install Tooling (C) to bolt (16) on eccentric weight assembly (26). Adjust Tooling (C) to increase the tension on belt (7).

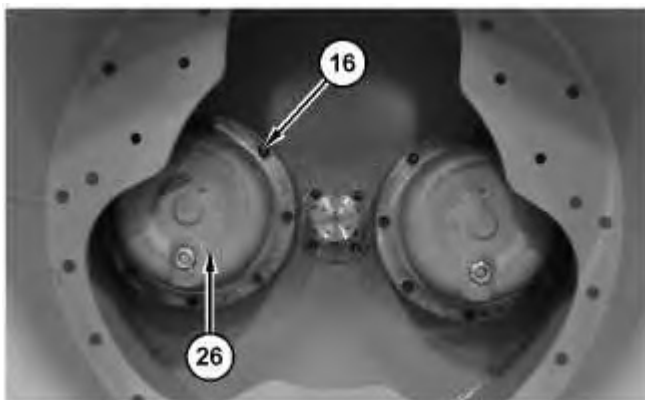


Illustration 33

g06125067

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