

Product: VIBRATORY COMPACTOR

Model: CS-423E VIBRATORY COMPACTOR CFX

Configuration: CS-423E Vibratory Compactor CFX00001-UP (MACHINE) POWERED BY 3054B Engine

Disassembly and Assembly CP-433E, CS-423E and CS-433E Vibratory Compactors Machine Systems

Media Number -KENR3584-05

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i02070613

Axle (without Brakes) - Assemble

SMCS - 3260-016; 3278-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
B	1P-1859	Retaining Ring Pliers	1
C	1P-0510	Driver Gp	1
E	138-7573	Link Brackets	2
F	1U-8846	Gasket Sealant	1
G	155-0695	Thread Lock Compound	1
H	069-4707	Sealant	1

1. Inspect all parts and clean all parts. If any parts are worn or damaged, use new Caterpillar parts for replacement.
 2. Inspect all seals. Damaged seals must be replaced. Use new Caterpillar seals for replacement.
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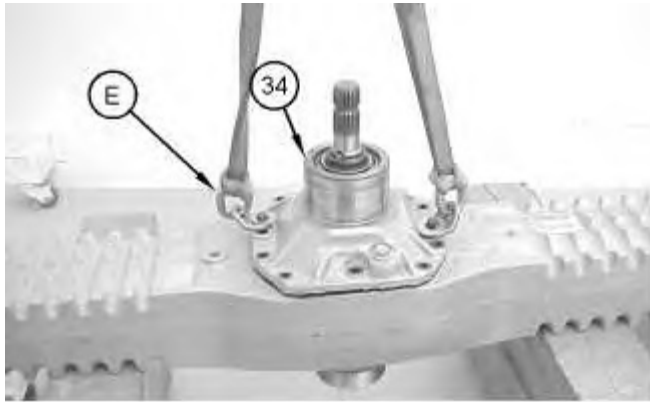


Illustration 1

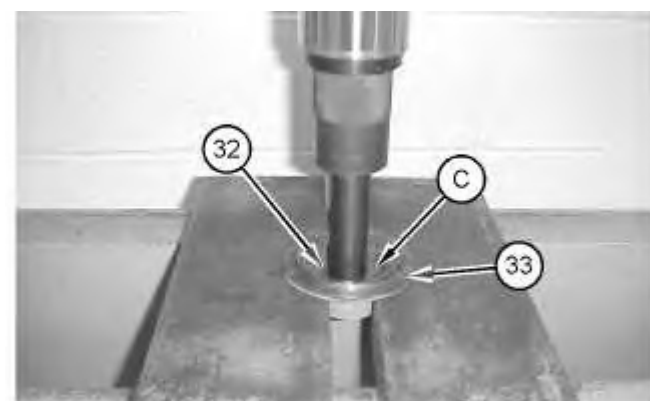
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3. Clean both mating surfaces of the differential and bevel gear and the axle housing.
4. Apply a continuous bead of Tooling (F) to the axle housing.
5. Install the differential and bevel gear (34) with Tooling (E) and a suitable lifting device. The weight of the differential and bevel gear is approximately 28 kg (62 lb). Remove Tooling (E) .



Illustration 2

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6. Install bolts (35). Tighten the bolts (35) to a torque of 169 N·m (125 lb ft).
7. Install seal (33) into housing (32) with Tooling (C) and a suitable press. Install cover (32) on differential and bevel gear (34) .



Illustration 4

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8. Install right shaft assembly (31) in the axle.

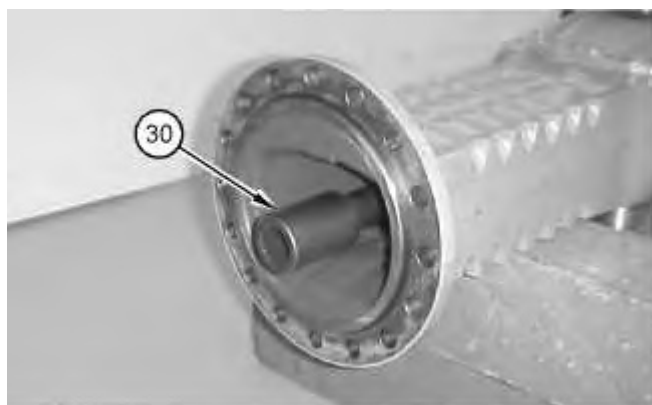


Illustration 5

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9. Install left shaft assembly (30) in the axle.
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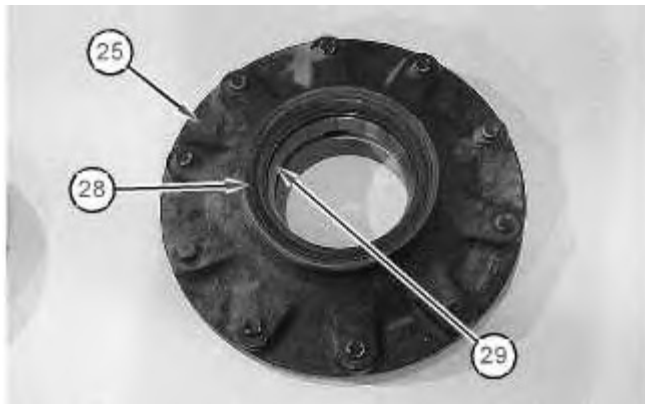


Illustration 6

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10. Lower the temperature of the bearing cups (29) to a temperature of -51 °C (-60 °F). Install the bearing cups in hub (25) .
11. Install lip seal (28) in hub (25) .



Illustration 7

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Illustration 8

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12. Install bearing cone (27), hub (25), and bearing cone (26) .

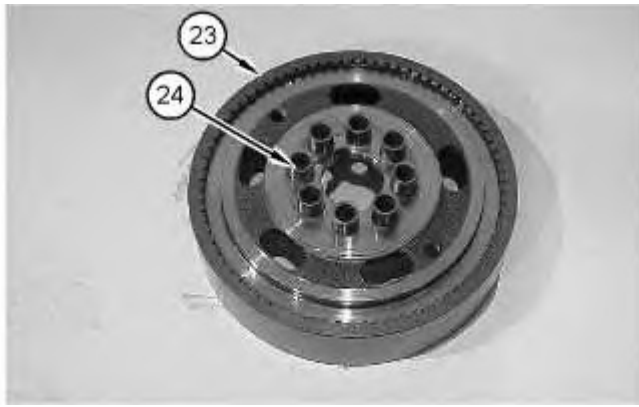


Illustration 9

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13. Use a suitable press and install bushings (24) in ring gear (23) .

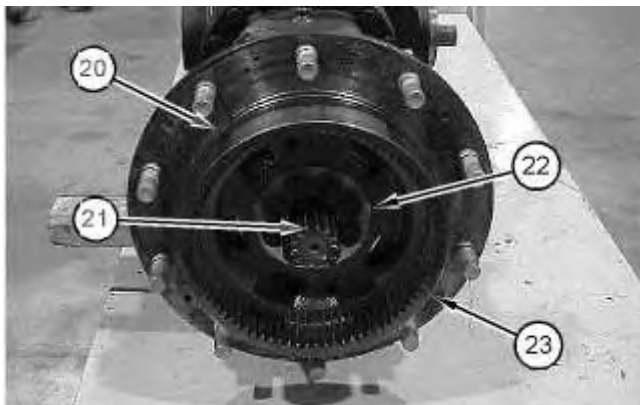


Illustration 10

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14. Install new bolts (22). Tighten the bolts (22) to a torque of 230 N·m (170 lb ft).
15. Install shaft (21) .
16. Install O-ring seal (20) on ring gear (22) .
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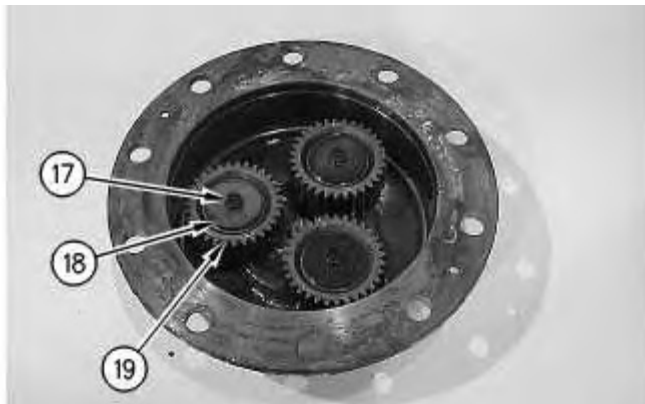


Illustration 11

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



Illustration 12

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18. Install end cover (16) and screws (15) .
19. Fill the wheel hub with oil. The capacity of the wheel hub is approximately 1.3 L (0.3 US gal). Refer to Operation and Maintenance Manual for the correct procedure.
20. Repeat Steps 10 through 19 in order to assemble the other wheel hub.
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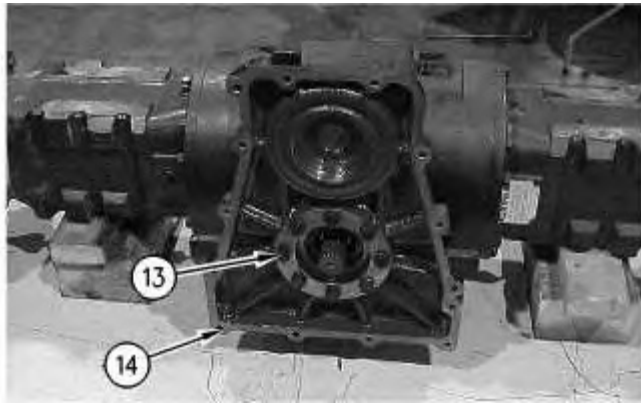


Illustration 13

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21. Apply Tooling (H) to the axle housing. Install cover (14). Apply Tooling (G) to bolts (13) and install the bolts. Tighten the bolts to a torque of 120 N·m (89 lb ft).

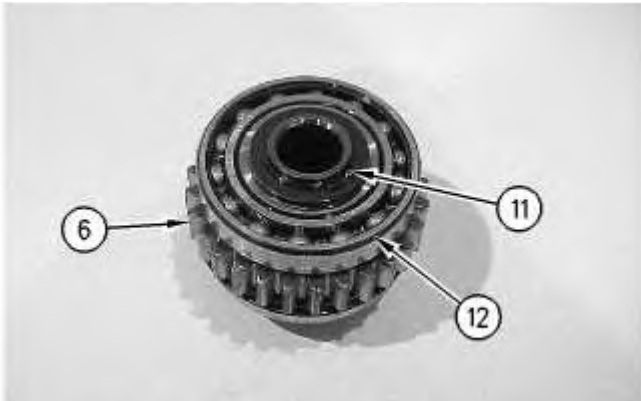


Illustration 14

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22. Use a suitable press and install bearing (12) on gear (6). Use Tooling (B) to install retaining ring (11).

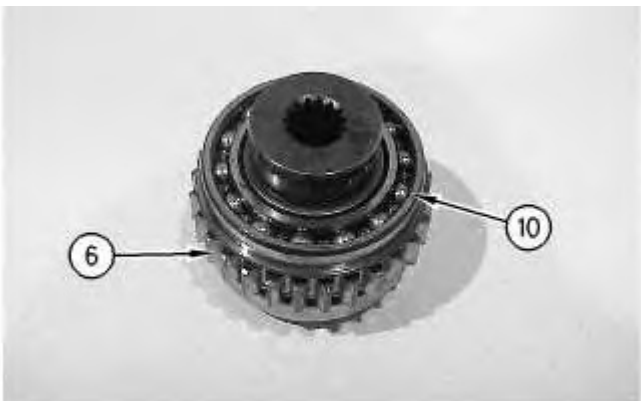


Illustration 15

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