CATERPILLAR®

Service Repair Manual

Models

CS-573E and CP-573E Vibratory Compactor

i02540039

Final Drive Planetary (Drum Propel) - Assemble

SMCS - 5655-016

Assembly Procedure

Table 1

Required Tools			
Tools	**Part Number**	**Part Description**	**Qty**
A	8B-7548	Push-Puller Tool Gp	1
	1P-0520	Driver Gp	1
	8T-0207	Bolt	2
	5P-8247	Hard Washer	2
B	136-1452	Retaining Ring Pliers	1
D	138-7574	Link Bracket	2
E	220-5726	Duo-Cone Seal Installer As	1
F	5P-0960	Molybdenum Grease	1
G	9S-3263	Thread Lock Compound	1
H	8T-5096	Dial Indicator Gp	1

Note: All of the components must be cleaned and inspected before assembly. If any of the components are beyond recommended limits, replace the components. Lubricate all moving parts with clean hydraulic oil during assembly. Assemble the final drive planetary with new seals.

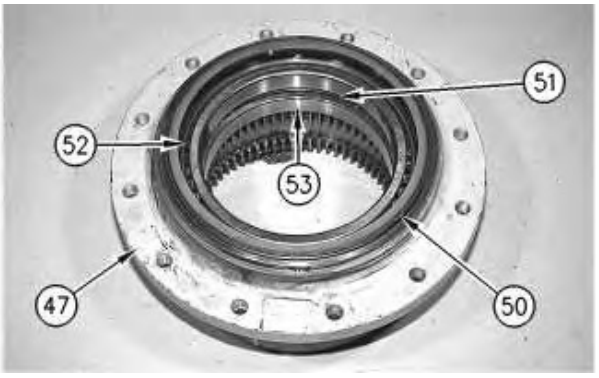

Illustration 1 g00978764

1. Install retaining rings (51) , bearing cups (53) and bearings (52) in housing (47) .
2. Use Tooling (E) to install Duo-Cone Seal (50) in housing (47) . Refer to Disassembly and Assembly, "Duo-Cone Conventional Seals - Install" for the correct procedure.

Illustration 2 g00978762

3. Use Tooling (E) to install Duo-Cone Seal (50) in hub (48) . Refer to Disassembly and Assembly, "Duo-Cone Conventional Seals - Install" for the correct procedure.
4. Install bushings (49) in hub (48) .

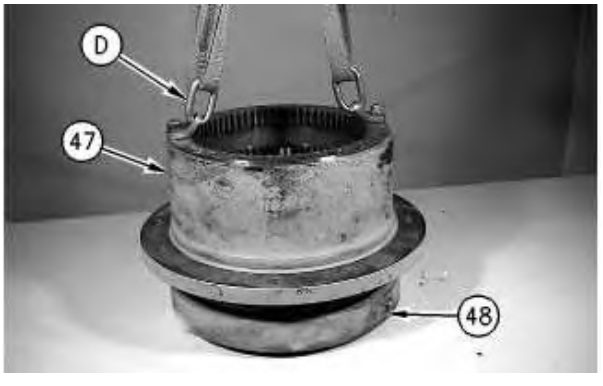

Illustration 3 g00978761

5. Use Tooling (D) and a suitable lifting device in order to install housing (47) on hub (48) . The weight of the hub is 43 kg (95 lb).

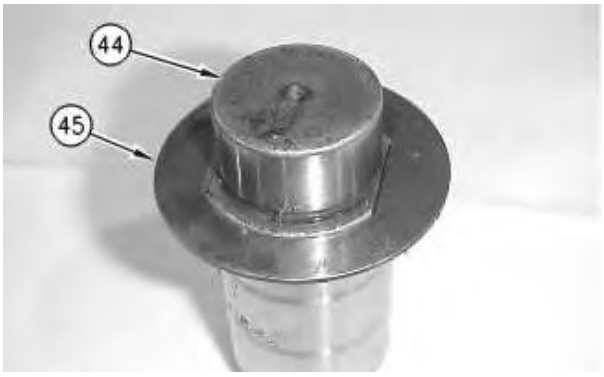

Illustration 4 g00978891

Illustration 5 g00978758

Note: Planetary gear pins (44) are not symmetrical. Install the longer end of the planetary gear pins in hub (48) .

Note: Planetary gear pins (44) and the bores in hub (48) must be clean in order to allow proper installation.

6. Apply Tooling (F) on the shoulders of planetary gear pins (44) . Install antirotation washers (45) on planetary gear pins (44) .

7. Install antirotation washers (45) and planetary gear pins (44) in hub (48) .

8. Install retaining disc (46) .

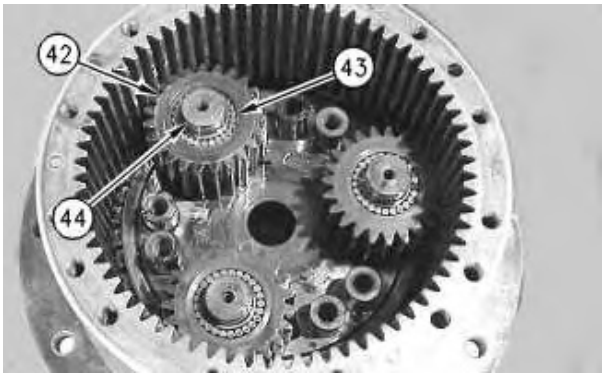

Illustration 6 g00978851

9. Apply Tooling (F) to needle bearings (43) . Install 75 needle bearings (43) on planetary gear pin (44) . There are three rows of needle bearings (43) on planetary gear pin (44) . Each row contains 25 needle bearings. Install planetary gear (42) on the needle bearings and the planetary gear pin.

10. Repeat Step 9 and install the remaining needle bearings and the remaining planetary gears.

Illustration 7 g00977635

11. Install antirotation washers (41) .

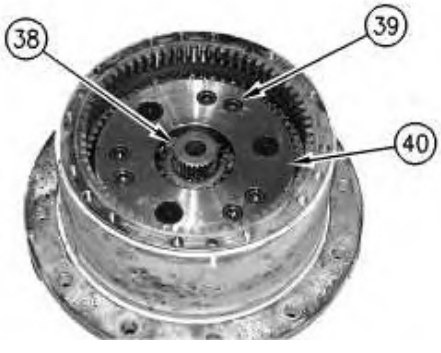

Illustration 8 g00832581

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