

Product: TRACK-TYPE TRACTOR

Model: D6H TRACK-TYPE TRACTOR 3ED

Configuration: D6H & D6H LGP TRACTOR / DIRECT DRIVE / 3ED00001-UP (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly D6H TRACTOR POWER TRAIN

Media Number -SEN3242-03

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SEN32420034

Bevel And Transfer Gears

SMCS - 3159-082; 3159; 3254; 3256-016; 3256-015

Disassemble Bevel And Transfer Gears

| Tools Needed | | A | B | C | D | E | F |
|--------------|-----------------------|---|---|---|---|---|---|
| 5P9736 | Link Bracket | 3 | 1 | | | | |
| 8H663 | Bearing Puller | | | 1 | | | |
| 8T2839 | Spanner | | | | 1 | | |
| 1P1863 | Retaining Ring Pliers | | | | | 1 | |
| 1P2321 | Puller Assembly | | | | | | 1 |
| 5P4170 | Step Plate | | | | | | 1 |

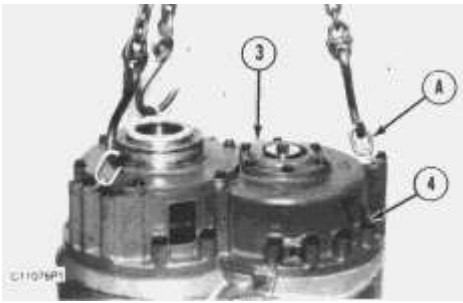
Start By:

a. separate transmission and bevel gears

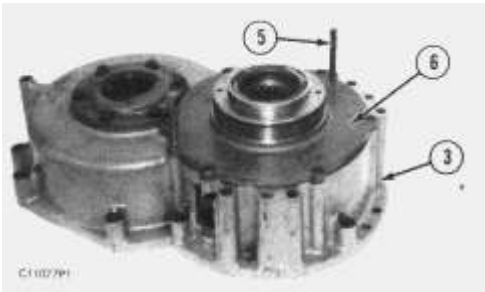
NOTE: Put identification marks on all of the shims when they are removed for correct installation.



1. Remove two bolts (1) and roller bracket assembly (2) from each side of the transfer gear case.



2. Remove sixteen bolts (4) that hold transfer gear case (3) to the bevel gear case.
3. The weight of the transfer gear case is **101 kg (223 lb)**. Install tooling (A), and attach a hoist as shown. Remove transfer gear case (3) from the bevel gear case.



4. Remove the six bolts that hold cage (6) to transfer gear case (3).
5. Install two 1/2 " - 13 NC forcing screws (5), and tighten evenly. Remove the cage and shims from the transfer gear case.



6. Remove lip-type seal (7) and O-ring seal (8) from cage (6).



NOTICE

Bearing cup (9) and bearing (10) will be damaged if they are removed.

7. If necessary, remove bearing cup (9) and bearing (10) from cage (6).



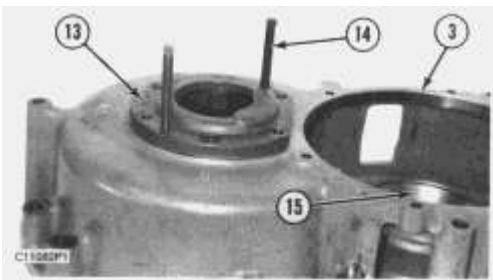
8. Remove transfer gear (11) from transfer gear case (3).



NOTICE

Bearing cones (12) will be damaged if they are removed from transfer gear (11).

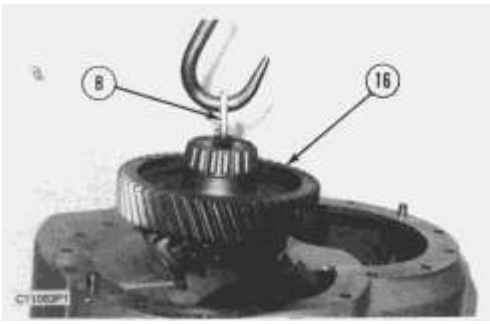
9. If necessary, remove two bearing cones (12) from transfer gear (11).



10. Remove the six bolts, and install two 1/2 " - 13 NC forcing screws (14) in cage (13). Tighten the forcing screws evenly, and remove cage (13) and the shims from transfer gear case (3).

11. Remove the bearing cup from cage (13).

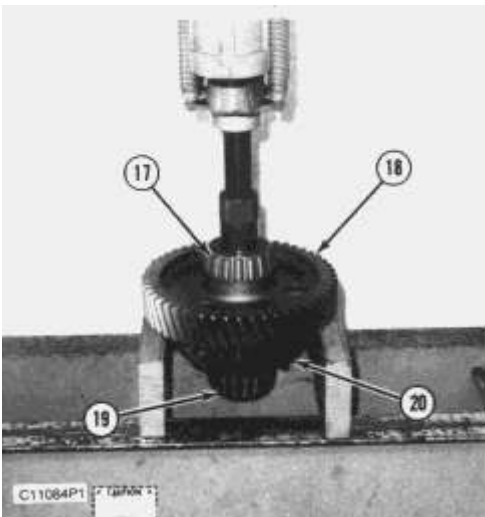
12. Remove bearing cup (15) from transfer gear case (3).



13. Remove the bolt and retainer from pinion gear assembly (16).

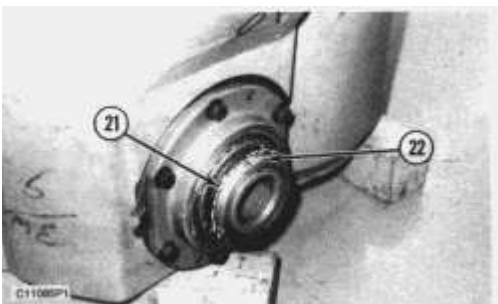
14. The weight of the pinion gear assembly is **33 kg (73 lb)**. Install tooling (B), and attach a hoist. Remove pinion gear assembly (16) from the bevel gear case.

15. Remove the pinion gear assembly bearing cup from the bevel gear case.



16. Put the pinion gear assembly in a press as shown. Remove transfer gear (18) and bearing cone (19) from pinion gear (19).

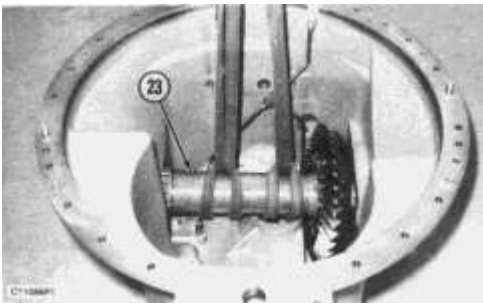
17. Use tooling (C) and a press, and remove bearing cone (19) from pinion gear (20).



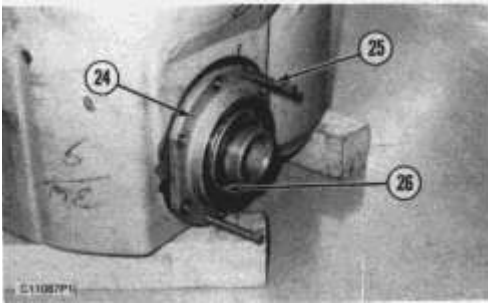
18. Bend the lock tab away from spanner nut (22).

19. Put a pry bar in between the bolt heads on the bevel gear to stop the rotation of the bevel gear and shaft.

20. Use tool (D), and remove spanner nut (22). Remove lock (21).

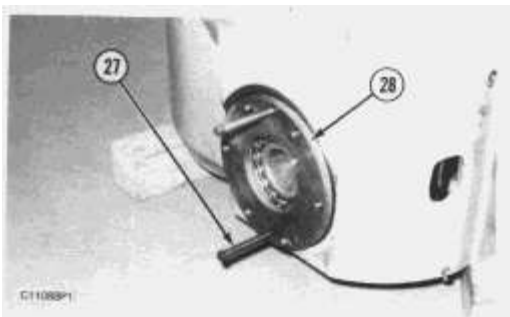


21. The weight of bevel gear and shaft (23) is **55 kg (121 lb)**. Use nylon straps and a hoist to support the bevel gear and shaft so the bearings can be removed.



22. Remove the six bolts, and install two 1/2 " - 13 NC forcing screws (25). Tighten the forcing screws evenly, and remove cage (24), two bearing cones (26), the spacer between bearing cones and the shims from the bevel gear case.

23. Remove the bearing cups and center ring from cage (24).

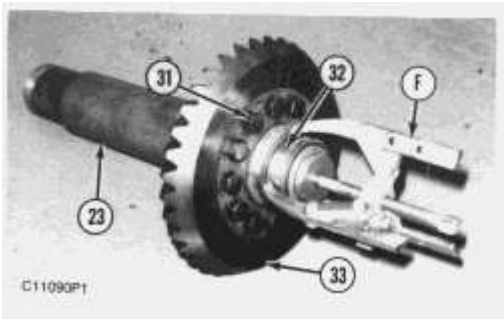


24. Remove the six bolts, and install two 1/2 " - 13 NC forcing screws (27). Tighten the forcing screws evenly, and remove cage (28) and the bearing from the bevel gear case.

25. Use the hoist, and remove bevel gear and shaft (23) from the bevel gear case.



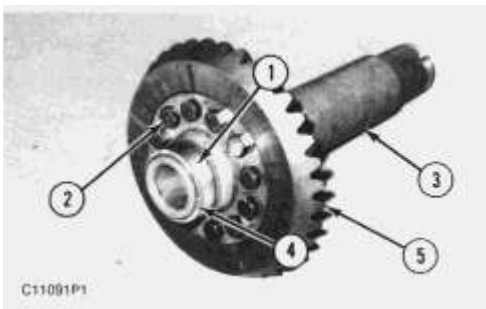
26. Install a 1/4 " - 20 NC bolt, and remove dowel (30) from cage (28). Remove race and roller assembly (29).



27. Use tool (E), and remove the retaining ring from bevel gear shaft (23).
28. Use tooling (F), and remove bearing race (32) from the bevel gear shaft.
29. Remove 12 bolts (31) and nuts. Install three 1/2 " - 13 NC forcing screws in bevel gear (33). Tighten the forcing screws evenly, and remove the bevel gear from the bevel gear shaft.
30. Remove the tube assemblies from the bevel gear housing.

Assemble Bevel And Transfer Gears

| Tools Needed | | A | B | C | D | E | F |
|--------------|---------------------------|---|---|---|---|---|---|
| 1P1863 | Retaining Ring Pliers | 1 | | | | | |
| 8T2839 | Spanner | | 1 | | | | |
| 5P9736 | Link Bracket | | | 1 | | 1 | |
| 1P520 | Driver Group | | | | 1 | | |
| 8T5096 | Dial Indicator Test Group | | | | | | 1 |



1. Put bevel gear (5) in position on bevel gear shaft (3). Install twelve bolts (2) and nuts.
2. Put two 1/2 " - 13 NC bolts into two of the forcing screw holes, and use a bar to hold the bevel gear and shaft. Tighten bolts (2) to a torque of **540 ± 50 N·m (400 ± 37 lb ft)**.
3. Heat bearing race (1) to a maximum temperature of **135° C (275° F)**, and install it on the bevel gear shaft.
4. Use tool (A), and install retaining ring (4) on bevel gear shaft (3).

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