



Service Repair Manual

Models

D6R TRACK-TYPE TRACTOR

Product: TRACK-TYPE TRACTOR

Model: D6R TRACK-TYPE TRACTOR 7AR

Configuration: D6R XR & D6R LGP TRACTORS / POWERSHIFT / 7AR00001-UP (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly D6R TRACK-TYPE TRACTOR POWER TRAIN

Media Number -SEN8357-02

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SEN83570028

Bevel & Transfer Gears

SMCS - 3150-015; 3150-016; 3159-082; 3159; 3254; 3256-015

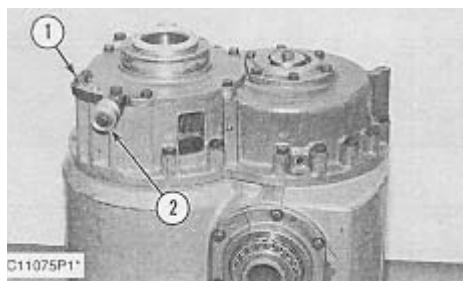
Disassemble Bevel & Transfer Gears

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

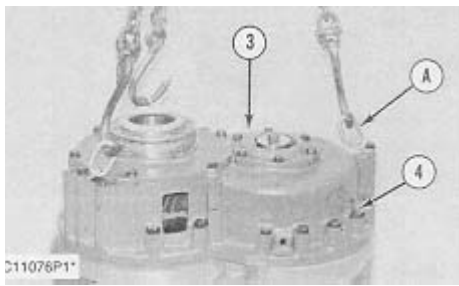
Start By:

a. separate transmission and bevel gears

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

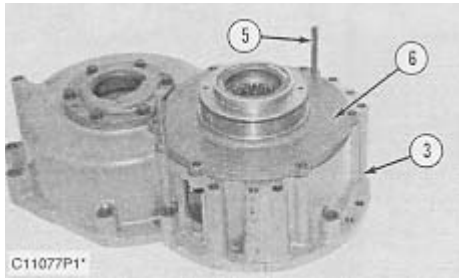


1. Remove two bolts (1) and roller bracket assembly (2) from each side of the transfer gear case.



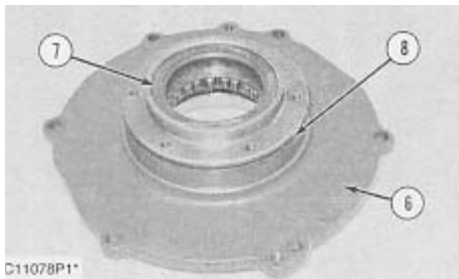
2. Remove sixteen bolts (4) that hold transfer gear case (3) to the bevel gear case.

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.

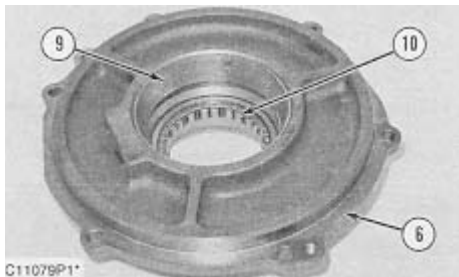


4. Remove the six bolts that hold cage (6) to transfer gear case (3).

5. Install two 1/2" - 13 NC forcing screws (5), and tighten evenly. Remove the cage and shims from the transfer gear case.



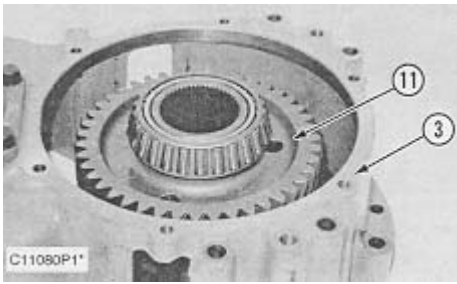
6. Remove lip-type seal (7) and O-ring seal (8) from cage (6).



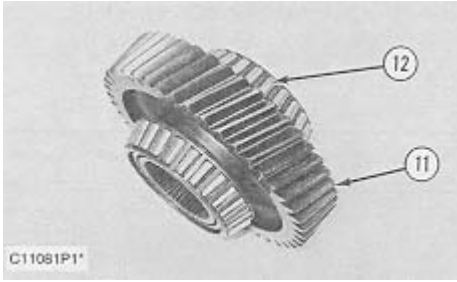
NOTICE

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)



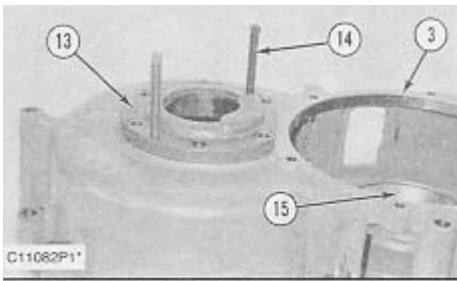
8. Remove transfer gear (11) from transfer gear case (3).



NOTICE

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

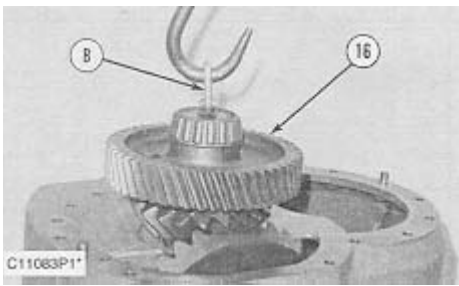
9. If necessary, remove two bearing cones (12) from transfer gear (11).



10. Remove the six bolts, and install 1/2 two " - 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).

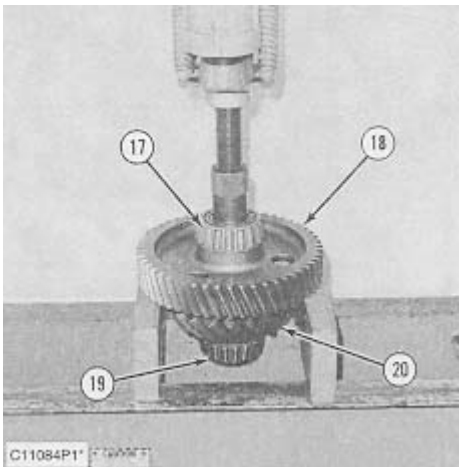
12. Remove bearing cup (15) from transfer gear case (3).



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

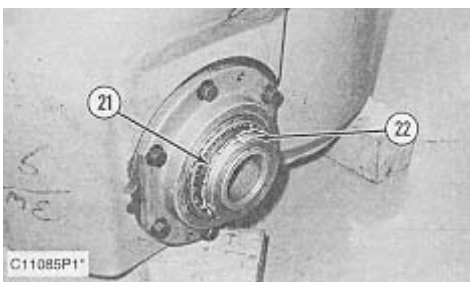
14. The weight of the pinion gear assembly is **33 kg (73 lb)**. Install Tooling (B), and attach a hoist. Remove the pinion gear assembly (16) from the bevel gear case.

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 (17) from the 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).

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