



Service Repair Manual

Models

D400E Articulated Truck

Product: ARTICULATED TRUCK

Model: D400E ARTICULATED TRUCK 2YR

Configuration: D400E Articulated Truck 2YR00001-UP (MACHINE) POWERED BY 3406 Engine

Disassembly and Assembly D350E & D400E ARTICULATED TRUCKS POWER TRAIN

Media Number -SEN8692-02

Publication Date -01/03/2004

Date Updated -15/12/2010

SEN86920019

Transmission Planetary

SMCS - 3150-015; 3150-016

Disassemble Transmission

Tools Needed		A	B	C	D	E	F	G
7M7238	Sleeve	1						
5P7321	Spacer	1						
5P9736	Link Bracket		2					1
FT833	Clamping Tool			2				
1P1863	Plier				1			
6V2156	Link Bracket					2		
1P1861	Plier						1	

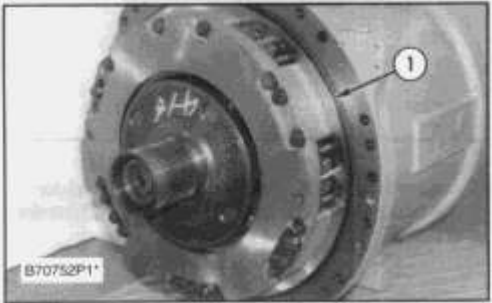
Tools Needed		H	J
5F7343	Bearing Puller Attachment	1	
1P0074	Puller Assembly		1

Start By:

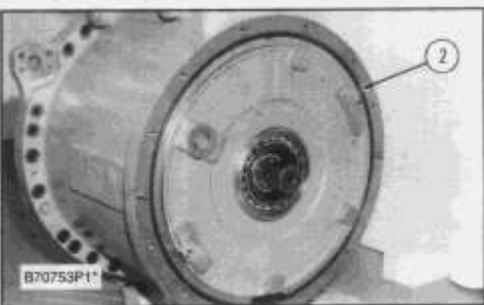
- a. remove transfer gears (input and output)
 - b. remove transmission control valve
-

NOTICE

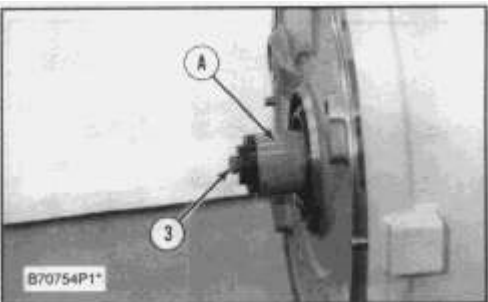
When the transmission is disassembled, keep the plates and disc assemblies in the original sequence in which they are removed. This is important because some clutch plates or disc assemblies can be used again only in their original position. The failure to follow this caution will cause too much wear in the transmission and cause a possible failure of the transmission. A 2P5501 Transmission Internal Parts Rack is used to keep the plates and disc assemblies in correct order.



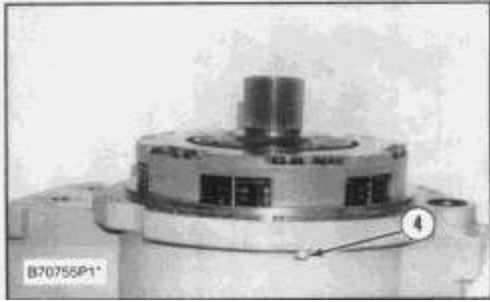
1. Remove O-ring seal (1).



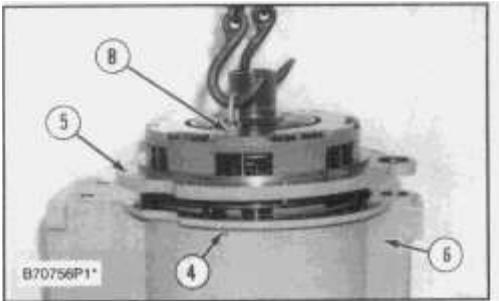
2. Remove O-ring seal (2).



3. Install Tool (A) on the input shaft. Use bolt (3) and washer that were removed at time of input transfer gear removal. Tool (A) will hold the parts on the shaft assembly when it is removed.



4. Put transmission in position on blocks with the output shaft up and remove two bolts (4).



5. Fasten Tooling (B) and a hoist to the transmission planetary group. The weight of the planetary group is **545 kg (1200 lb)**.

6. Use bolts (4) installed in the transmission case (6) to move planetary group (5) out of the transmission case (6).

7. Remove planetary group (5) from transmission case (6) and put on blocks.

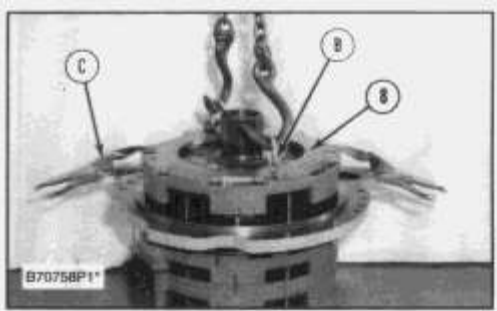
8. Put a cover over transmission case (6) to keep it clean. If it is necessary to move transmission case (6), fasten Tooling (B) and a hoist to the case. The weight of the case is **104.5 kg (230 lb)**.

NOTICE

Make a mark across all the clutch housings for correct assembly.



9. Remove twenty bolts (7).

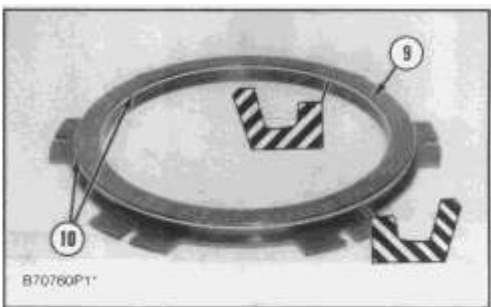


10. Use Tooling (C) to hold the piston in No. 6 clutch housing (8).

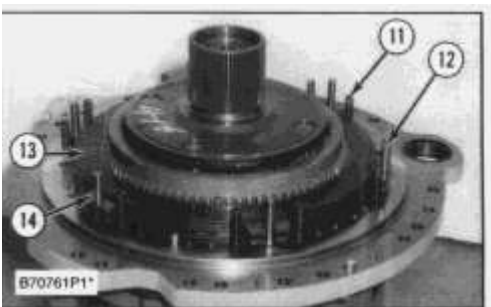
11. Fasten Tooling (B) and a hoist No. 6 clutch housing and remove it. The weight of the No. 6 clutch housing is **29.5 kg (65 lb)**.



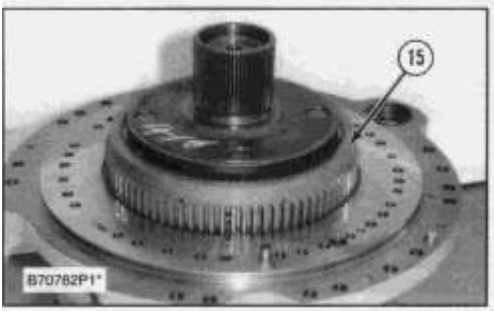
12. Remove piston (9) from clutch housing (8).



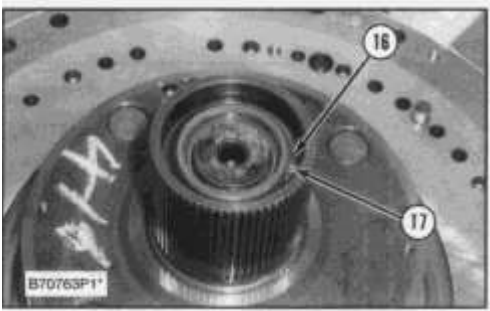
13. Remove two seals (10) from piston (9).



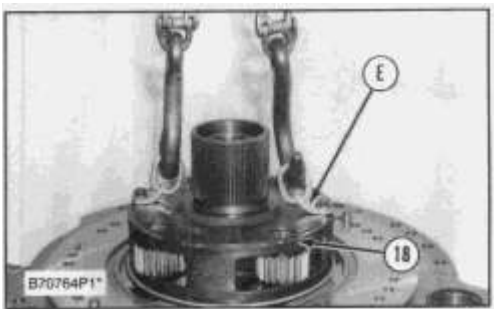
14. Remove twelve springs (11), six dowels (12), three disc assemblies (13) and two plates (14).



15. Remove gear (15).



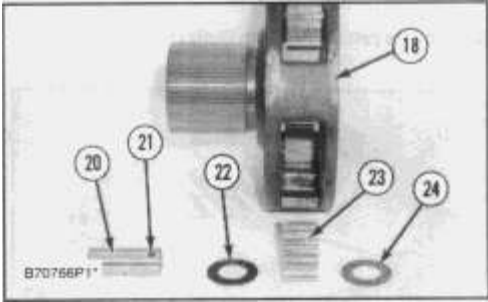
16. Remove snap ring (16) with Tool (D). Remove spacer (17).



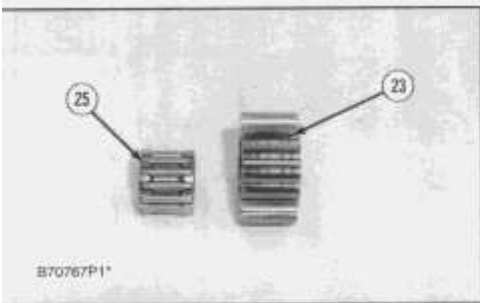
17. Fasten Tooling (E) and a hoist to carrier assembly (18). Remove the carrier assembly.



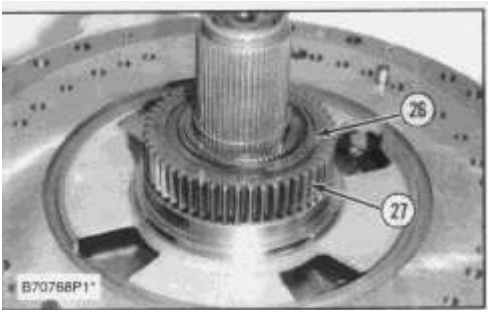
18. Remove slinger (19) and gasket.



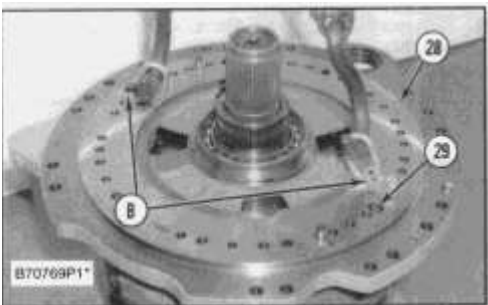
19. Drive pin (21) through carrier (18) in shaft (20).
20. Remove shaft (20), discs (22) and (24) and gear (23).
21. Remove the other three planet gears.



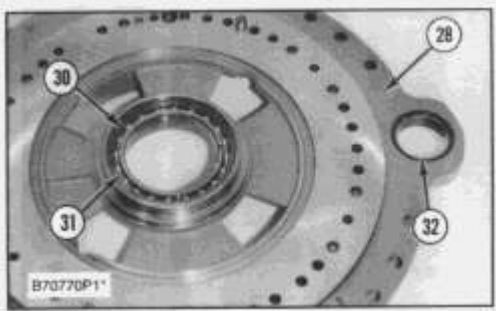
22. Remove bearing (25) from planet gear (23).



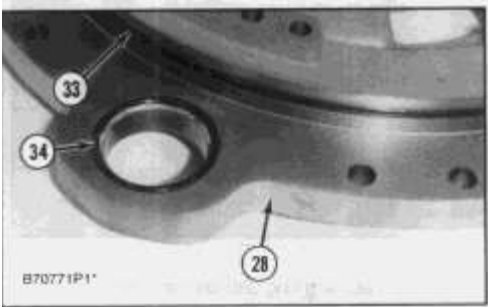
23. Remove retaining ring (26) and sun gear (27).



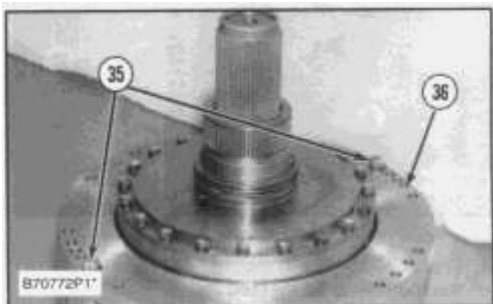
24. Fasten Tooling (B) to manifold (28). The weight of the manifold is **73 kg (160 lb)**.
25. Remove two bolts (29) in the holes in manifold (28).
26. Remove manifold (28).



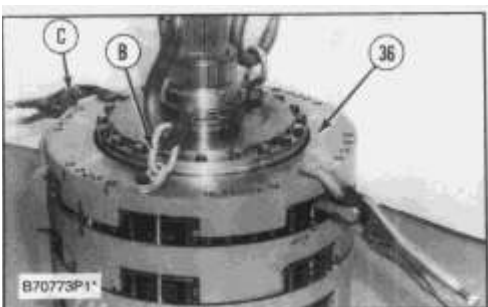
- 27. Use Tool (F) to remove lockring (30). Remove bearing (31) from manifold (28).
- 28. Remove O-ring seal (32).



- 29. Turn manifold (28) over. Remove O-ring seals (33) and (34).



- 30. Remove two bolts (35) that hold the No. 4 clutch housing (36).



- 31. Use Tooling (C) to hold the clutch piston in the No. 4 clutch housing.
- 32. Fasten Tooling (B) and a hoist to the No. 4 clutch housing. The weight of the No. 4 clutch housing (36) is **27 kg (60 lb)**.

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