

Product: WHEEL LOADER

Model: 980F WHEEL LOADER 5XJ

Configuration: 980 F SERIES II WHEEL LOADER 5XJ00617-00712 (MACHINE) POWERED BY 3406 ENGINE

## Disassembly and Assembly 980F & 980F SERIES II WHEEL LOADERS POWER TRAIN

Media Number -SEN4991-02

Publication Date -01/08/2004

Date Updated -18/04/2012

SEN49910028

## Transmission

SMCS - 3150-016; 3150-015

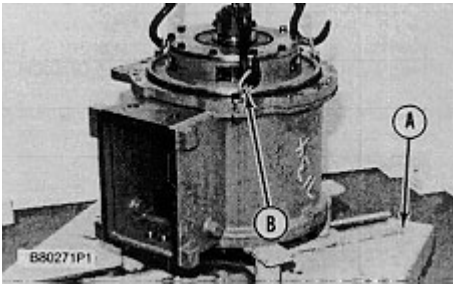
### Disassemble Transmission

Tools Needed		A	B	C	D	E	F	G
1P2420	Transmission Repair Stand	1						
6V2156	Link Bracket		3					
FT0833	Clamp			2				
1P1863	Retaining Ring Pliers				1			
5P5197	Pliers					1		
5P9736	Link Bracket						3	
5P4758	Pliers							1

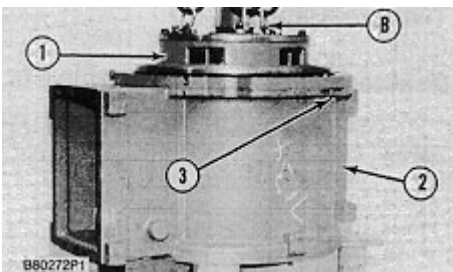
Tools Needed		H	J	K	L	M	N
1P0520	Driver Group	1				1	
2P2345	Spanner Wrench		1				
2P8312	External Retaining Ring Pliers			1			
FT0847	Spring Compressor				1		
8B7551	Bearing Puller Assembly					1	
1P1859	Retaining Ring Pliers						1

Start By:

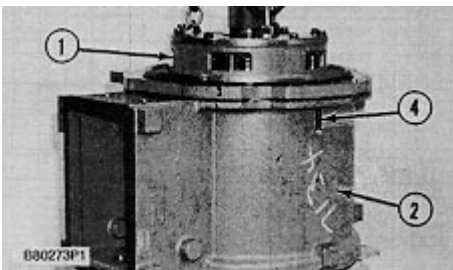
- a. separate transmission from transfer gears
- b. remove transmission hydraulic control valves



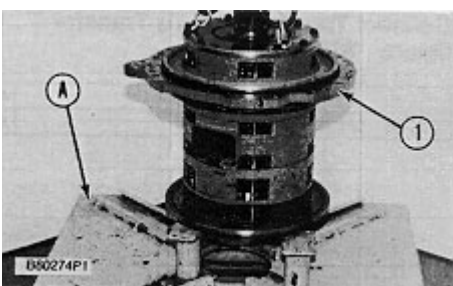
1. Fasten tool (B) and a hoist to the transmission as shown.
2. Put the transmission in position on tool (A). The weight of the transmission is **567 kg (1250 lb)**.



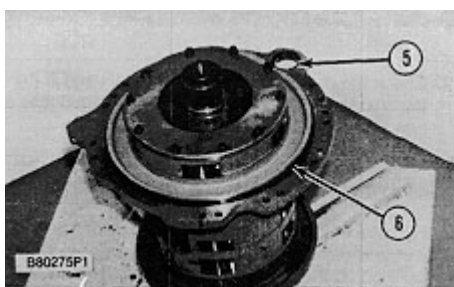
3. Fasten tool (B) and a hoist to planetary group (1). Remove bolts (3) that hold transmission case (2) to planetary group (1).



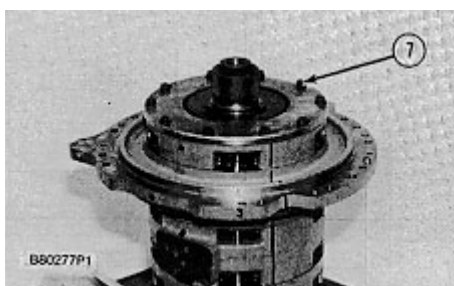
4. Install two 1/2" - 13 NC forcing screws (4) in the transmission case.
5. Use the hoist and forcing screws (4) to remove planetary group (1) from transmission case (2). The weight of the planetary group is **424 kg (935 lb)**.
6. Use tool (B) and a hoist to remove the transmission case from tool (A). The weight of the transmission case is **143 kg (315 lb)**.



7. Put planetary group (1) in position on tool (A) as shown. Fasten the planetary group to tool (A) with suitable size bolts, washers and nuts.

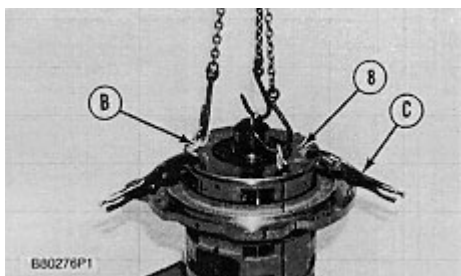


8. Remove two O-ring seals (5) and O-ring seal (6) from the manifold assembly.



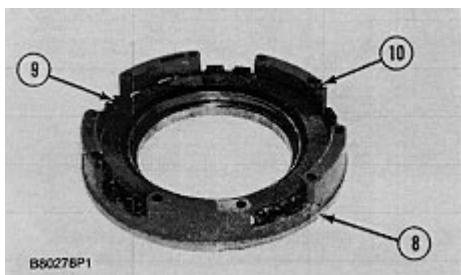
9. Put an alignment mark across the clutch housing assemblies of the planetary group for assembly purposes.

10. Remove bolts (7) and the washers from the No. 6 clutch housing.

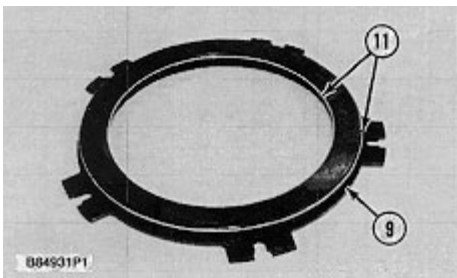


11. Use tool (C) to hold the clutch piston in No. 6 clutch housing (8).

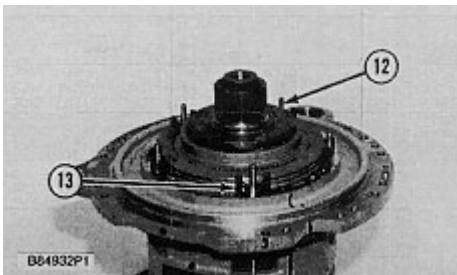
12. Fasten tool (B) and a hoist to No. 6 clutch housing (8). Remove No. 6 clutch housing (8) from the manifold assembly. The weight of the No. 6 clutch housing is **29 kg (64 lb)**.



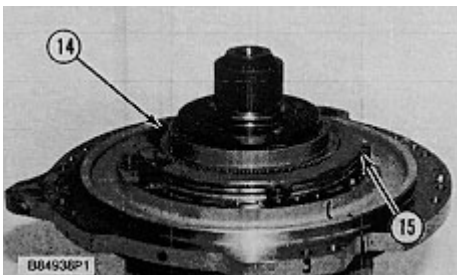
13. Remove reaction dowels (10) and clutch piston (9) from No. 6 clutch housing (8).



14. Remove seal rings (11) from clutch piston (9).



15. Remove five dowels (12) and springs (13) from the manifold assembly.



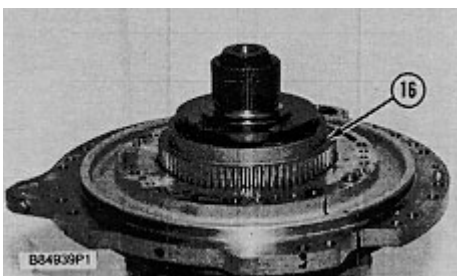
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### NOTICE

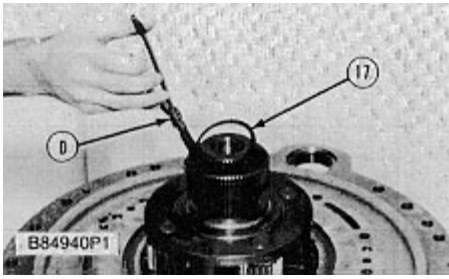
**Keep the friction discs and clutch plates for the individual clutches in their original sequence and with their respective clutch housings.**

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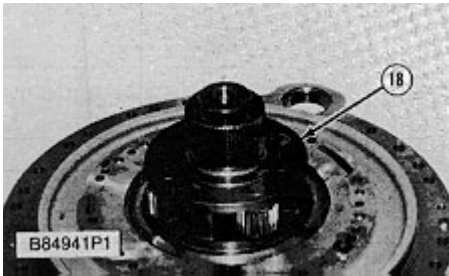
16. Remove three friction discs (14) and two clutch plates (15) from the manifold assembly.



17. Remove ring gear (16) from the manifold assembly.



18. Use tool (D), and remove retaining ring (17) from the output shaft assembly.

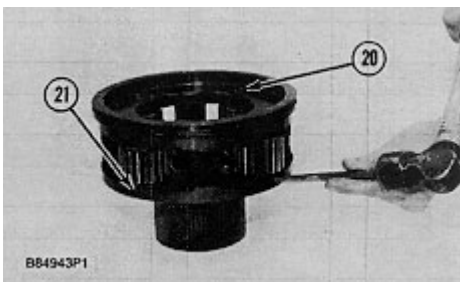


19. Remove carrier assembly (18) from the manifold assembly.

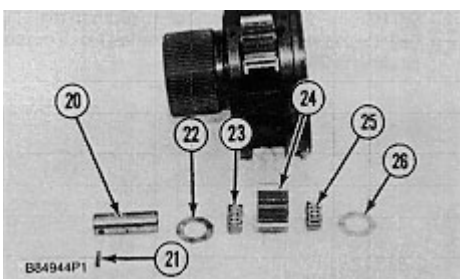
20. Disassemble carrier assembly (18) as follows:



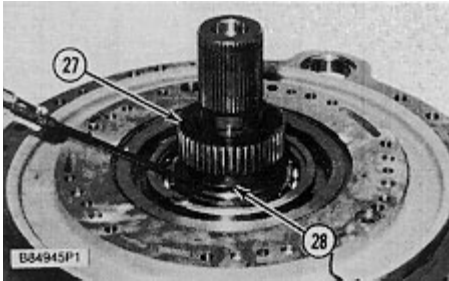
a. Remove seal ring (19) from the carrier.



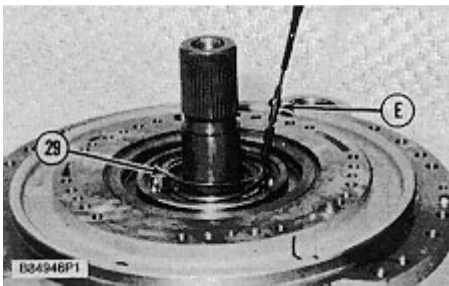
b. Use a hammer and a punch to push spring pin (21) into planetary shaft (20).



- c. Remove planetary shaft (20), thrust disc (26), planetary gear (24) and thrust (22) from the carrier.
- d. Remove bearings (23) and (25) from planetary gear (24).
- e. Remove spring pin (21) from planetary shaft (20).
- f. Disassemble the remainder of carrier assembly (18) as in Steps 20b through 20e.

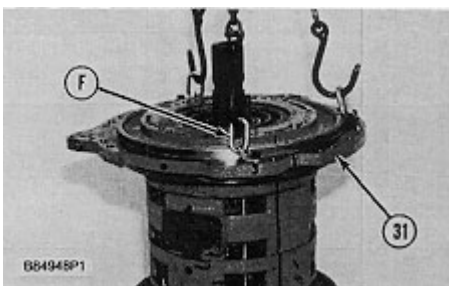


- 21. Remove retaining ring (28) from the housing assembly.
- 22. Remove sun gear (27) from the output shaft assembly.

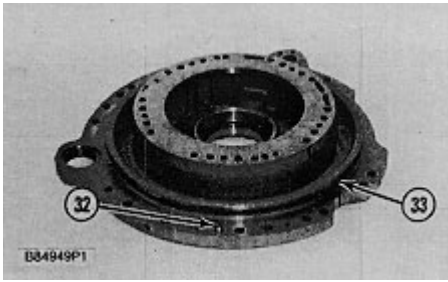


**NOTE:** After retaining ring (29) has been removed, the housing assembly will drop a small amount into the manifold assembly.

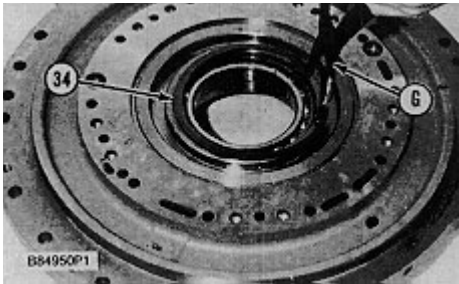
- 23. Use tool (E), and remove retaining ring (29) from the housing assembly.



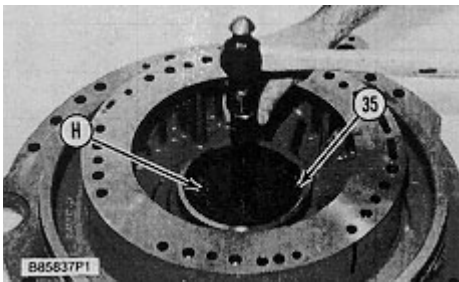
- 24. Fasten tool (F) and a hoist to manifold assembly (31) as shown. Remove manifold assembly (31) from the No. 3 and 4 clutch housing. The weight of the manifold assembly is **88 kg (194 lb)**.



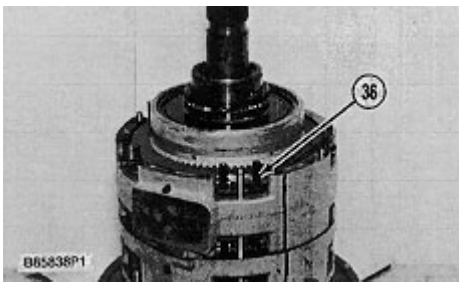
25. Remove dowel (32) and O-ring seal (33) from the manifold assembly.



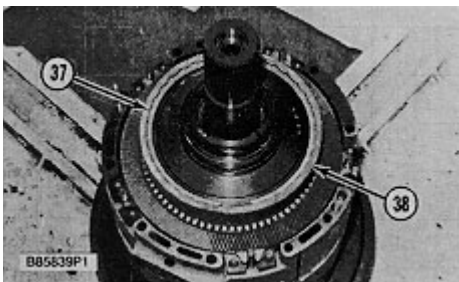
26. Use tool (G), and remove retaining ring (34) from the manifold assembly.



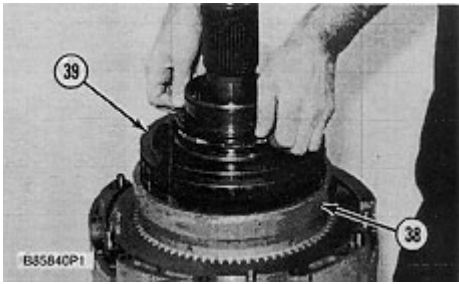
27. Use tool (H) to remove bearing (35) from the manifold assembly.



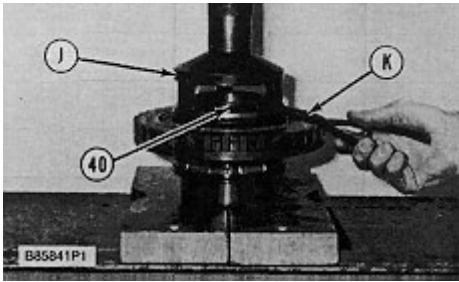
28. Remove springs (36) from the clutch piston.



29. Remove retaining ring (37) from the groove in ring gear (38).

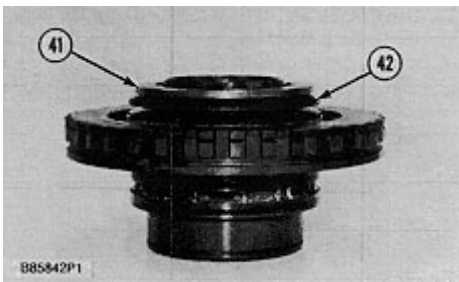


**30.** Remove housing assembly (39) from ring gear (38).

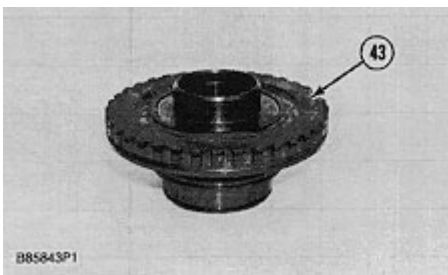


**31.** Use tool (J) and a press to compress the three disc springs in the housing assembly.

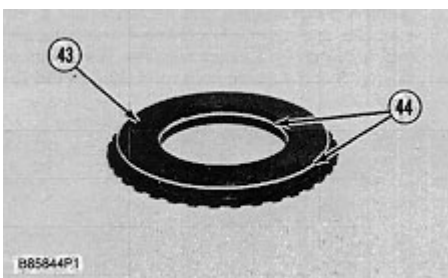
**32.** Use tool (K), and remove retaining ring (40) from the housing assembly.



**33.** Remove retainer plate (41), and three disc springs (42) from the housing assembly.



**34.** Remove clutch piston (43) from the housing assembly.







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