



# Service Repair Manual

## **Models**

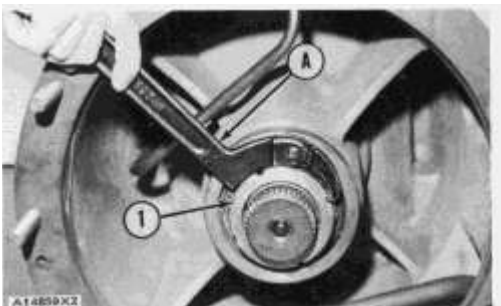
Caterpillar Cat 12G  
Motor Grader

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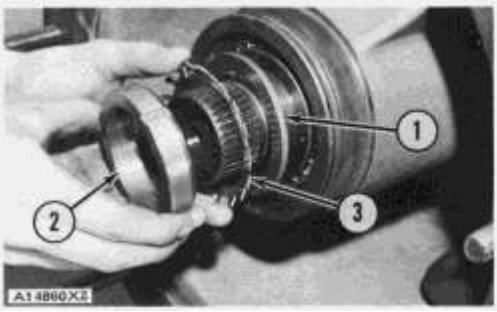
Tools Needed		A	B	C	D	E
1P2853	Spanner Wrench	1				
8B7551	Bearing Puller Attachment		1			
1P820	Puller Group		1			
5B7369	Leg		2			
9S9154	Step Plate		1			
3H465	Plate		4			4
1B4207	Nut		2			2
9S5800	Pump Group		1			
1P466	Drive Plate			1		
1P470	Drive Plate			1		
1P529	Handle			1		
8H684	Ratchet Box Wrench				1	1
5F7366	Screw				1	1
5F7351	Nut				1	1
5F7353	Washer				6	1
8B7548	Crossbar				2	1
8B7554	Bearing Cup Puller Attachment				1	
1H3107	Crossbar				1	
1B4709	Nut				4	
3H468	Plate				4	
8B7551	Bearing Puller Attachment					1
8B7549	Leg					2

start by:

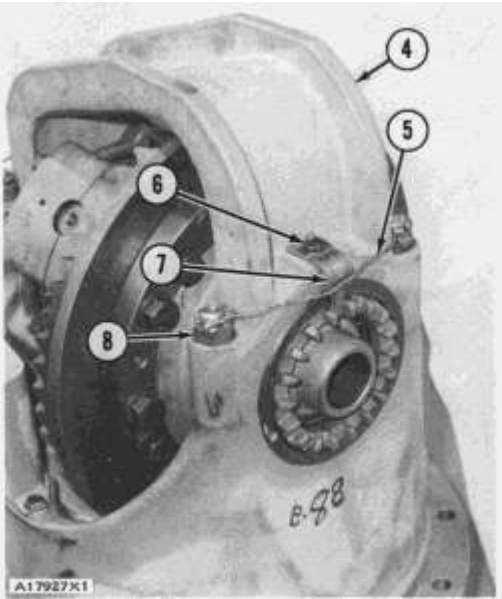
a) remove differential



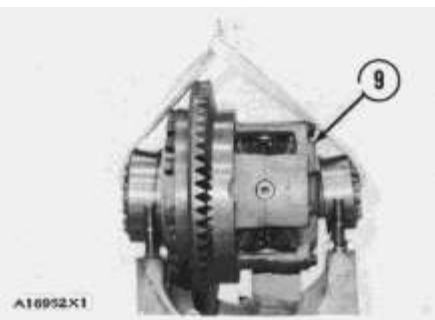
1. Bend the lock away from nut (1) and loosen nut (1) with tool (A).



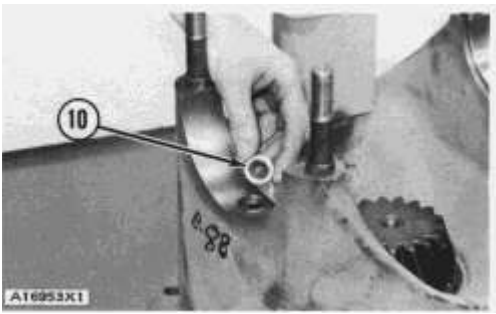
2. Remove nut (1), lock (3) and washer (2).
3. Put the differential and the carrier in position as shown.



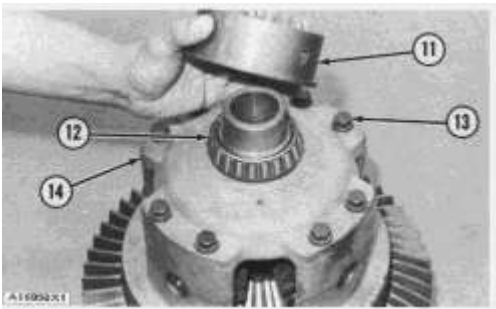
4. Remove wire (5) from the nuts on each side of the differential. Remove nuts (8).
5. Bend the locks away from bolts (6). Remove the bolts, the locks and locks (7) from the cap.
6. Remove cap (4) from the carrier.
7. Remove the dowel that holds the small cage in alignment with the cap.



8. Fasten a hoist and a strap to the differential (9) as shown. Lift the differential and remove it from the carrier. Weight is 240 lb. (109 kg).



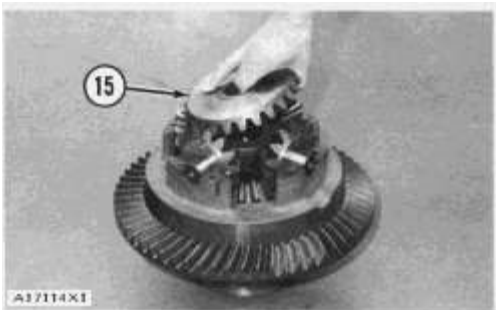
9. Remove the ring and seal (10) from the carrier.



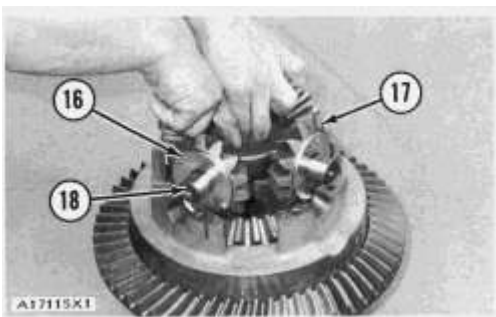
10. Remove small cage (11) from the differential. Remove the nut and the bearing cup from the cage.

11. Remove bearing (12) from housing (14) with tooling (B).

12. Remove bolts (13) and the washers that hold housing (14) to the clutch housing. Remove housing (14). Remove the brass washer from the inner face of housing (14).



13. Remove gear (15) from the spider gears.



14. Remove spider (18) and the gears and washers from the clutch housing.

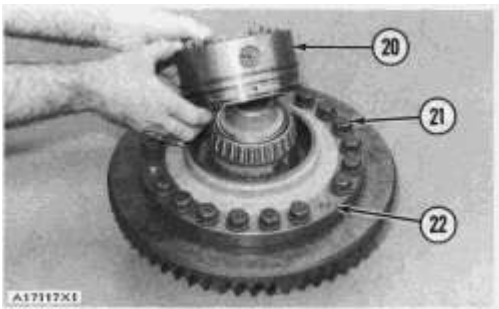
15. Remove brass washers (16) and gears (17) from the spider.

16. Remove the brass bearings from the gears with tooling (C).



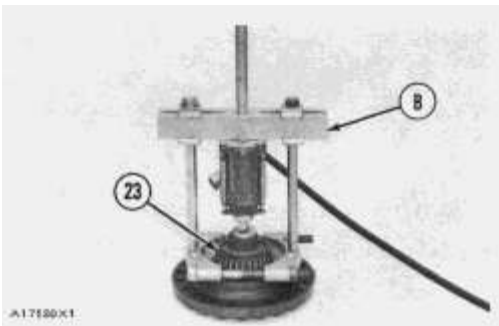
17. Remove gear (19) from the housing.

18. Turn the bevel gear, clutch housing and the piston housing over.



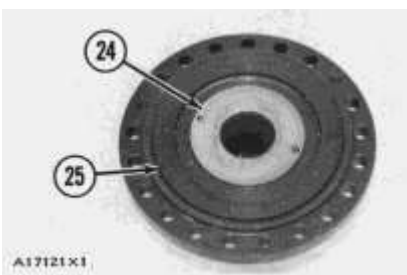
19. Remove cage (20). Remove the nut, the bearing cup, the ring and the two seals from cage (20).

20. Remove bolts (21) and the washers that hold piston housing (22) to the bevel gear and the clutch housing. Remove piston housing (22).



21. Remove bearing (23) from the piston housing with tooling (B).

22. Turn the piston housing over.



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