



Service Repair Manual

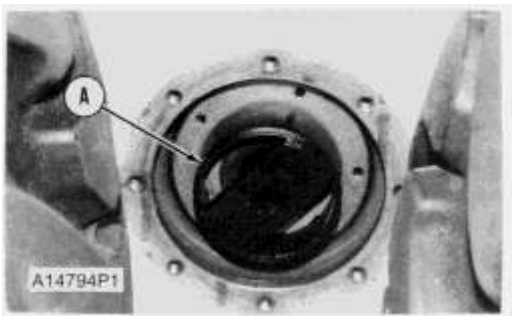
Models

120G MOTOR GRADER

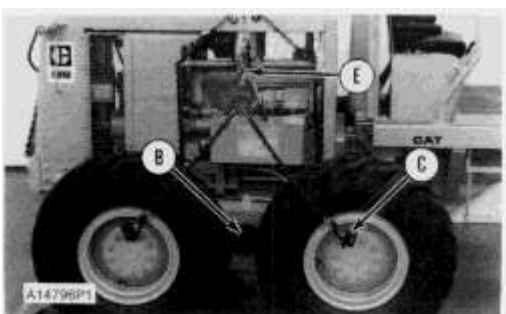
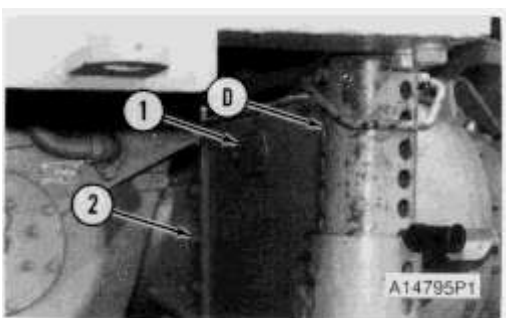
Tools Needed		H	I	J	K
FT522	Bracket	1			
5P4758	Retaining Ring Pliers		1		
8B7548	Puller Assembly			1	1
8H684	Ratchet Box Wrench			1	1
5P4169	Step Plate			1	
8B7556	Adapter				2
8B7549	Leg			2	2
8B7554	Bearing Cup Puller Attach.		1		
8B7551	Bearing Pulling Attachment			1	

Start By:

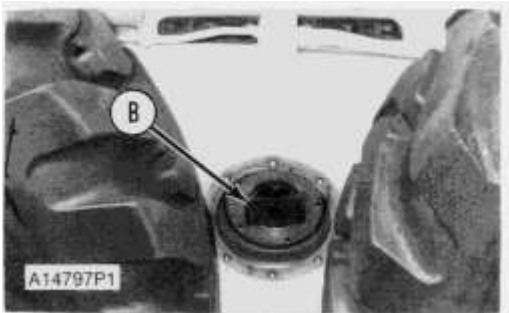
a. remove axles



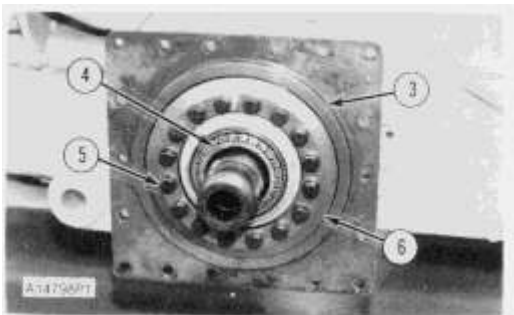
1. Remove the nut that holds the sprockets on the shaft with tooling (A). Install tooling (B) on the shaft.



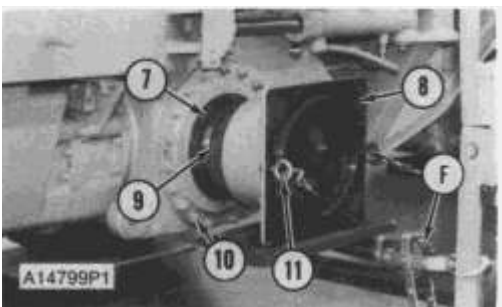
2. Lift the machine off the ground. Install tooling (D) under the rear frame as shown. Remove the bolts that hold covers (1) from the tandem housing. Remove covers (1).
 3. Install tooling (C) on the rear wheels. Fasten a hoist to the tandem housing and tooling (C). Install tooling (E) between tooling (C) and the hoist to help keep the tandem housing in balance. Disconnect the air line from the tandem housing.
 4. Remove nuts (2) and the washers that hold the tandem housing to the final drive housing.
 5. Move the tandem housing away from the final drive housing and on to tooling (B).
- NOTE:** Tooling (B) keeps the sprockets in their correct positions in the tandem housing.



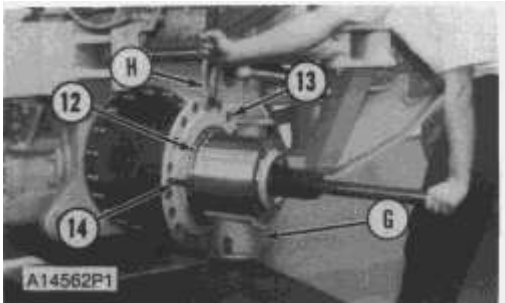
6. Remove tooling (B) from the shaft. Do not remove tooling (B) from the sprockets.
7. Move the tandem housing away from the machine. Weight is 1043 kg (2300 lb.).



8. Remove O-ring seal (3) from the housing. Remove bearing (4) from the shaft.
9. Remove bolts (5) that hold retainer (6) to the housing. Remove retainer (6).
10. Remove the washer that is between the final drive housing and retainer (6). The washer is in three sections.



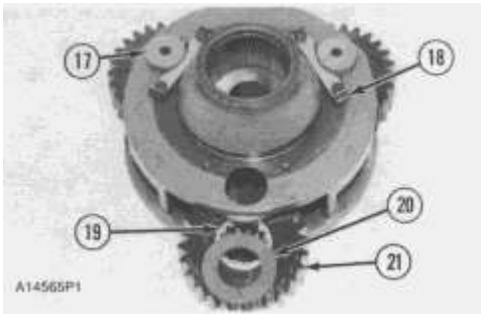
11. Install two 5/8" - 11 NC forged eyebolts (11) and nuts in the housing as shown. Put a fork lift truck in position under the housing. Install tooling (F) on the lift truck and the eyebolts.
12. Pull the outer housing (8) from the inner housing with tooling (F).
13. Remove two oscillation bearing rings (9) from the housings. Remove washer (7) from the inner housing. Washer (7) is in three sections.



14. Put tooling (G) and a floor jack in position under inner housing (13). A rag can be put between tooling (G) and the housing to prevent damage to the housing.
15. Remove nuts (10) and the washers that hold inner housing (13) to the bevel gear case.
16. Install two 3/4" - 10 NC forcing screws (14) in the housing. Remove the inner housing far enough to install tooling (H) on the housing. Fasten a hoist to tooling (H). Put an axle in position in the final drive housing to help keep the housing in balance.
17. Install a wire around the forcing screws and the planet carrier to keep the planet carrier from falling. Remove inner housing (13) and the planet carrier. Weight is 163 kg (360 lb.). Remove O-ring seal (12). Remove the O-ring seal from the inside surface of inner housing (13).
18. Put the final drive housing in position on blocks with the planet carrier up. Remove the wire and the forcing screws from the housing.

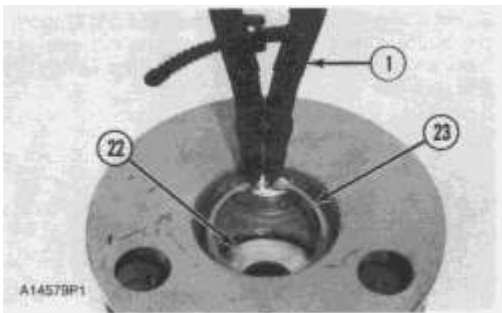


19. Remove pinion (16) from planet carrier (15). Fasten a hoist to planet carrier (15) and remove it. Weight is 41 kg (90 lb.).



20. Bend the locks away from the bolts that hold shafts (17) to the planet carrier. Remove the locks and the bolts. Remove retainers (18) from the shafts.

21. Remove shafts (17) from the planet carrier. Remove gears (21) and washers (20) from the planet carrier. Remove rollers (19) from gears (21).

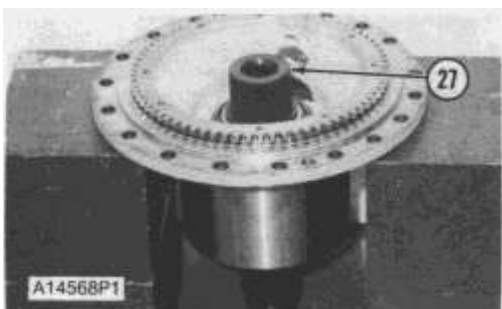


22. Remove ring (23) from the planet carrier with tooling (I). Remove washer (22) from the planet carrier.



23. Bend the locks away from bolts (25). Remove bolts (25). Remove plates (26) that hold ring (24) to the housing.

24. Remove ring gear (24). Weight is 17 kg (38 lb.).



25. Remove shaft (27) from the housing. Weight is 18 kg (40 lb.).

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