



Service Repair Manual

Models

120G MOTOR GRADER

Product: MOTOR GRADER

Model: 120G MOTOR GRADER 87V

Configuration: 120G MOTOR GRADERS 87V05275-08359 (MACHINE) POWERED BY 3304 ENGINE

Disassembly and Assembly 12G, 120G, 130G & 140G MOTOR GRADERS POWER TRAIN

Media Number -SEN3649-00

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SEN36490007

Final Drives

SMCS - 4050-015

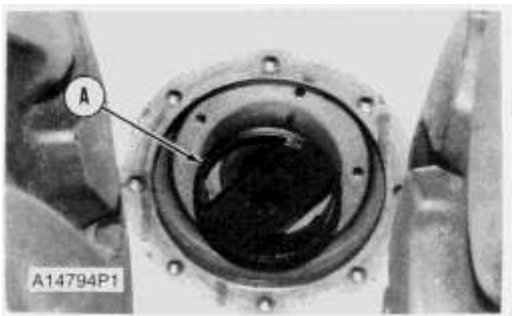
Disassemble Final Drives

Tools Needed		A	B	C	D	E	F	G
5P4204	Spanner Socket	1						
5P4746	Guide		1					
5P4732	Bracket			2				
8S7630	Stand				1			
8S7611	Tube				1			
8S7615	Pin				1			
8S9906	Ratchet Assembly					1	2	
8S8048	Saddle							1

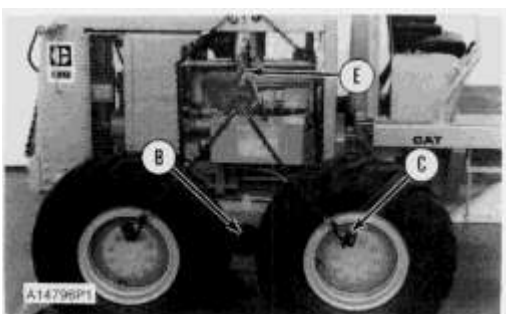
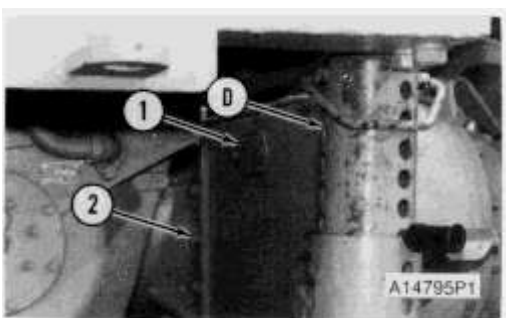
Tools Needed		H	I	J	K
FT522	Bracket	1			
5P4758	Retaining Ring Pliers		1		
8B7548	Puller Assembly			1	1
8H684	Ratchet Box Wrench			1	1
5P4169	Step Plate			1	
8B7556	Adapter				2
8B7549	Leg			2	2
8B7554	Bearing Cup Puller Attach.		1		
8B7551	Bearing Pulling Attachment			1	

Start By:

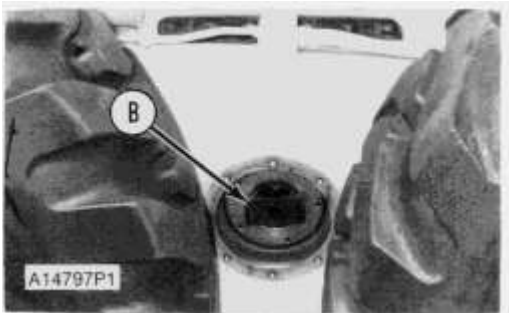
a. remove axles



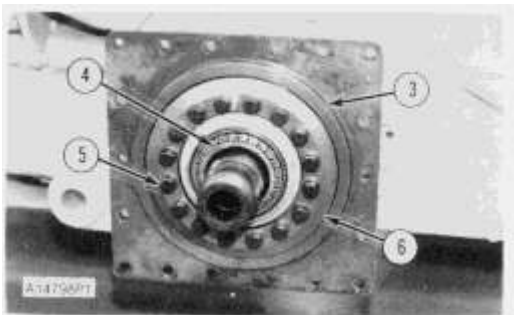
1. Remove the nut that holds the sprockets on the shaft with tooling (A). Install tooling (B) on the shaft.



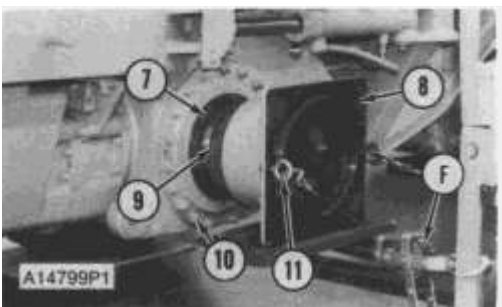
2. Lift the machine off the ground. Install tooling (D) under the rear frame as shown. Remove the bolts that hold covers (1) from the tandem housing. Remove covers (1).
 3. Install tooling (C) on the rear wheels. Fasten a hoist to the tandem housing and tooling (C). Install tooling (E) between tooling (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.



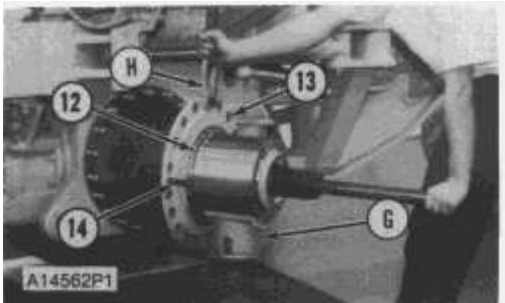
6. Remove tooling (B) from the shaft. Do not remove tooling (B) from the sprockets.
7. Move the tandem housing away from the machine. Weight is 1043 kg (2300 lb.).



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.).

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