



# Service Repair Manual

## **Models**

# 14G MOTOR GRADER

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Product: MOTOR GRADER

Model: 14G MOTOR GRADER 96U

Configuration: 14G MOTOR GRADER 96U01098-04297 (MACHINE) POWERED BY 3306 ENGINE

## Disassembly and Assembly 14G MOTOR GRADER POWER TRAIN

Media Number -SEN7068-02

Publication Date -01/10/2004

Date Updated -03/11/2004

SEN70680007

## Final Drives

SMCS - 4050-11; 4050-12

## Remove Final Drives

Tools Needed		A	B	C	D	E	F	G
5P4202	Spanner Socket	1						
5P4745	Sprocket Guide		1					
5P4731	Lift Bracket			2				
8S9906	Ratchet Puller			2				
5P9736	Link Bracket			2				
6V2157	Link Bracket				1			
	OTC Model 1790 Transmission Jack					1		
5P4758	Pliers						1	
1H3107	Puller Assembly							1
1P520	Driver Group							1
1H3109	Legs							1
5F7343	Bearing Puller Attachment							1
8F2239	Wrench							1

Tools Needed		H	J
8B7548	Puller Assembly	1	1
8H684	Ratchet Box Assembly	1	1
8B7556	Adapter	2	
8B7549	Leg	2	
8B7554	Bearing Cup Puller Attachment	1	1

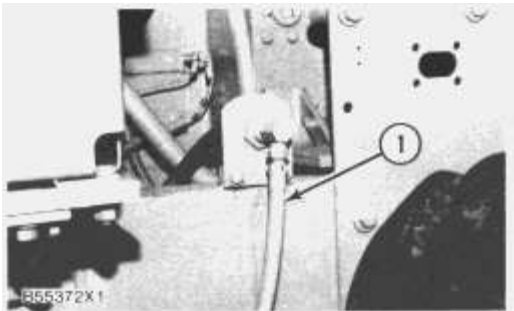
START BY:

a) remove axles

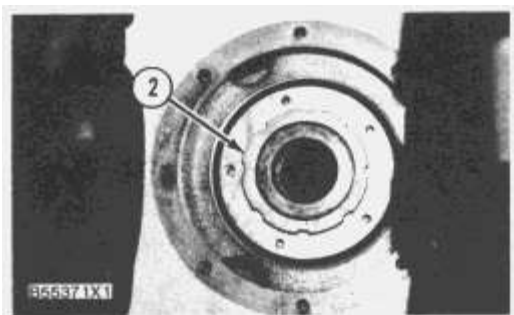


**WARNING**

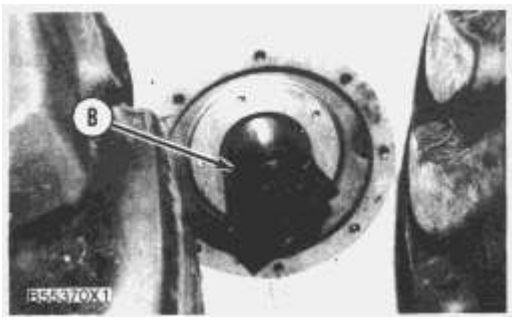
**Do not disconnect any air lines until the air system pressure is zero. Failure to remove (bleed) air before the lines are disconnected can result in personal injury.**



1. Disconnect air line (1) from elbow.

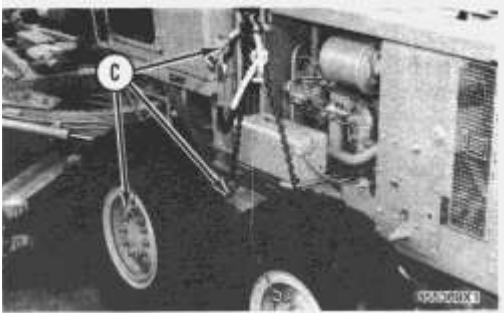


2. Remove spanner nut (2) from shaft with tool (A).

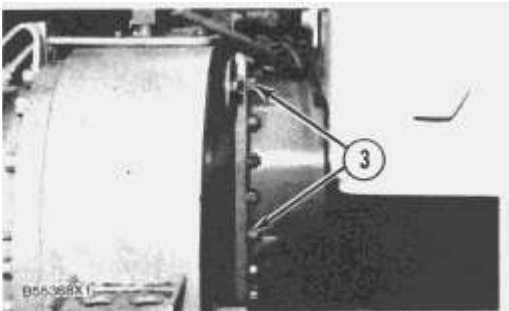


3. Install tool (B) on the shaft.

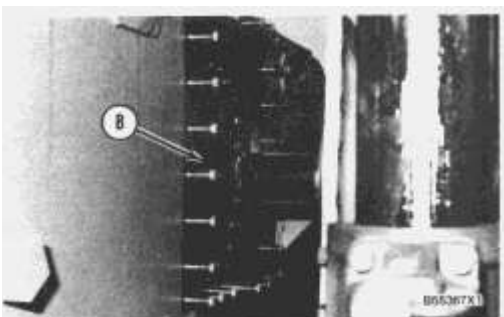
4. Lift the machine off ground with an acceptable jack or lift tool.



5. Install tooling (C) on the tandem housing and wheels.

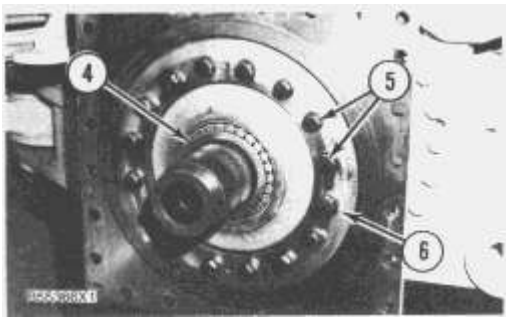


6. Remove nuts (3) and washers that fasten the tandem housing to the final drive housing.

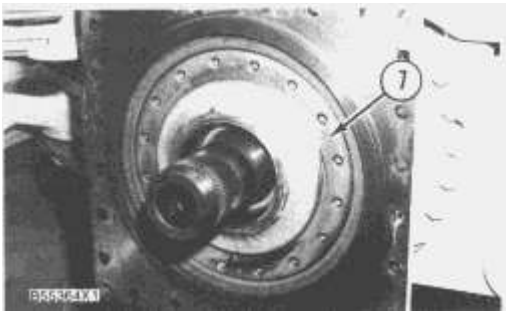


7. Move the tandem housing away from the final drive housing. The sprockets will slide on to tool (B). The weight of the tandem housing is 3300 lb. (1497 kg).

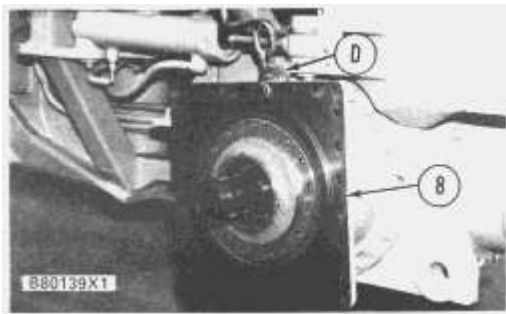
**NOTE:** Tool (B) keeps the sprockets in their correct positions in the tandem housing. Do not remove tool (B) from the sprockets. Remove seal from the outer housing.



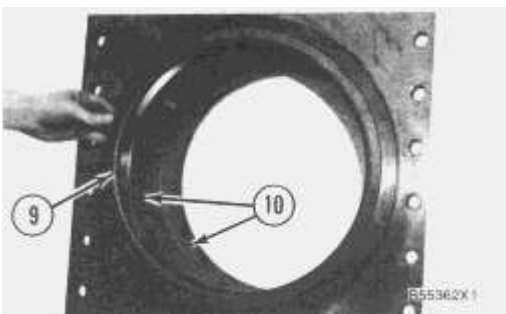
**8.** Remove bearing cone (4), bolts (5) and retainer (6).



**9.** Remove shim pack (7) from housing.



**10.** Install tool (D) on outer housing (8) and remove from inner housing. The weight of housing (8) is 198 lb. (90 kg).



**11.** Remove washer (9) from each side of housing. Remove two rings (10) from inside housing.

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