

Product: MOTOR GRADER

Model: 140G MOTOR GRADER 5MD

Configuration: 140G Motor Grader 5MD00001-UP (MACHINE) POWERED BY 3306 Engine

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

Media Number -SEN3649-00

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SEN36490004

Brake And Wheel Spindle Housings

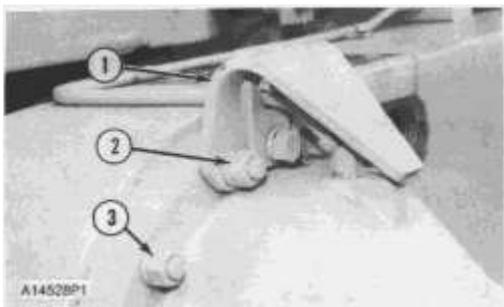
SMCS - 4205-015; 4205-016; 4205-011; 4205-012; 4251

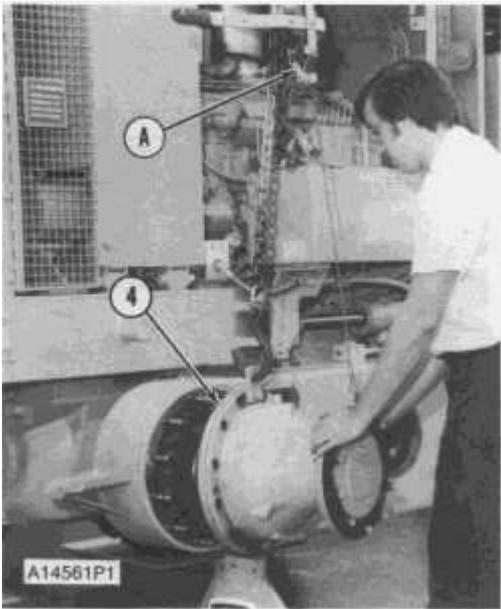
Remove Brake And Wheel Spindle Housings

Tools Needed		A
8S9906	Ratchet Assembly	1

Start By:

- a. remove drive chains





1. Release the air pressure in the air tank by loosening the bleed valves.

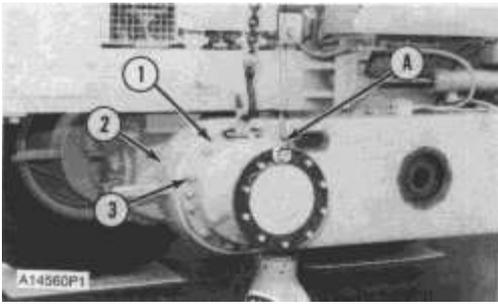


Do not disconnect the air line to the brake and wheel spindle housing until the air pressure is zero.

2. Remove two nuts (2), the washers and guard (1) from the housing.
3. Disconnect the air line from the housing and the block on the tandem housing. Remove the air line.
4. Fasten a hoist and tooling (A) to the plate on the brake and wheel spindle housing and to the stud on the wheel spindle.
5. Remove nuts (3) and the washers that hold the brake and wheel spindle housing to the tandem housing. Remove brake and wheel spindle housing (4). Weight is 159 kg (350 lb.).

Install Brake And Wheel Spindle Housings

Tools Needed		A
BS9906	Ratchet Assembly	1



1. Fasten a hoist and tooling (A) to brake and wheel spindle housing. Put brake and wheel spindle housing (1) in position on the studs in tandem housing (2).

2. Install the nuts (3) and the washers that hold the brake and wheel spindle housing to the tandem housing.

3. Remove the hoist and tooling (A). Install the air line on the brake and wheel spindle housing and the block on the tandem housing. Install the guard on the housing. Install the two nuts and the washers that hold it.

End By:

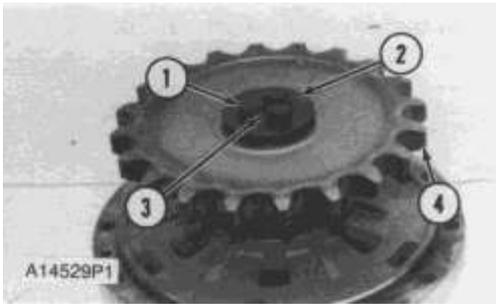
a. install drive chains

Disassemble Brake And Wheel Spindle Housings

Tools Needed		A	B	C
8B7554	Bearing Cup Pulling Attachment		1	
8H684	Ratchet Box Wrench		1	
7M3976	Adapter	1		
8B7548	Puller Assembly		1	
8B7551	Bearing Pulling Attachment			1
5F7369	Leg			2
8B7555	Adapter			2
1P820	Puller Group			1
8B7560	Step Plate			1
9S5800	Pump Group			1

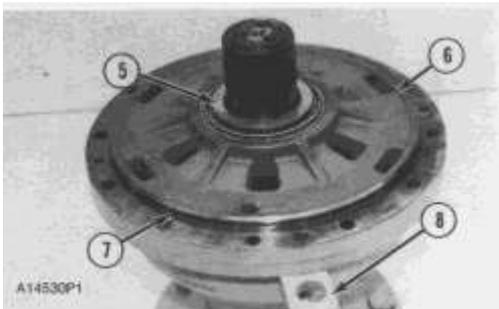
Start By:

a. remove brake and wheel spindle housings



1. Remove wire (3) from the bolts. Remove bolts (1). Remove retainer (2) and the shims that are under the retainer.

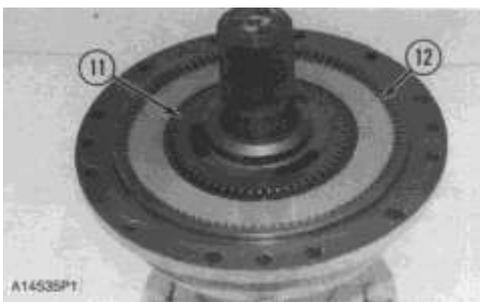
2. Remove sprocket (4). Weight is 16 kg (36 lb.).



3. Remove bearing cone (5) from the spindle and cover (6). Remove O-ring seal (7) from cover (6).

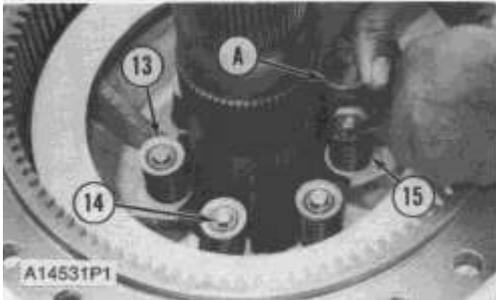
4. Remove the bolts and plate (8) that hold cover (6) to the housing. Install two 5/8" - 11 NC forged eyebolts in the cover. Fasten a hoist to the eyebolts and remove the cover. Weight is 23 kg (50 lb.). Remove bearing cup (10) from the cover.

5. Remove O-ring seal (9) from the cover.



6. Remove hub (11) from the wheel spindle.

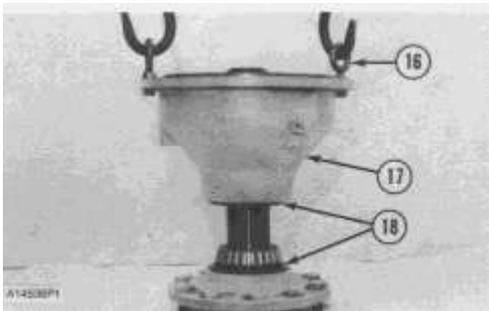
7. Remove ten discs (12) and nine disc assemblies from the housing.



8. Put springs (15) in compression with tool (A).

9. Remove rings (14) from the studs with pliers.

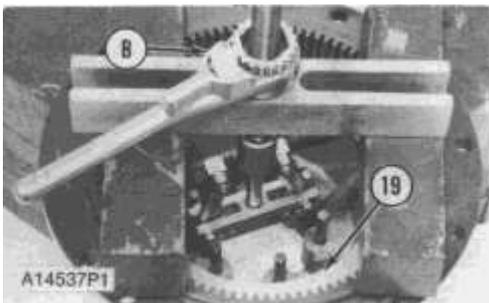
10. Remove tool (A). Remove washers (13) and springs (15) from the studs.



11. Install two 5/8" - 11 NC forged eyebolts (16) in housing (17). Fasten a hoist to the eyebolts.

12. Remove housing (17) from the wheel spindle. Weight is 45 Kg (100 lb.).

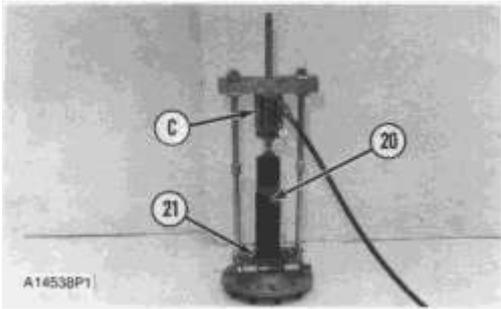
13. Remove Duo-Cone seals (18) from the wheel spindle and the housing.



14. Install tooling (B) and blocks on the housing as shown.

15. Remove piston (19) with tooling (B).

16. Remove the O-ring seals from the piston. Remove the bearing cup from the housing.

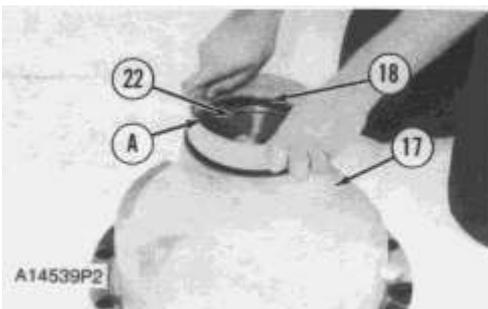


17. Remove bearing cone (21) from wheel spindle (20) with tooling (C).

18. Do Steps 1 through 17 for the other brake and wheel spindle housings.

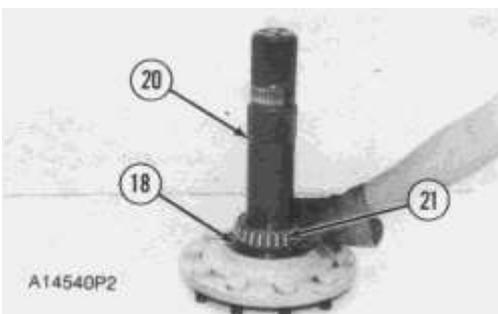
Assemble Brake And Wheel Spindle Housings

Tools Needed		A	B
5S4276	Seal Installer	1	
7M3976	Adapter		1



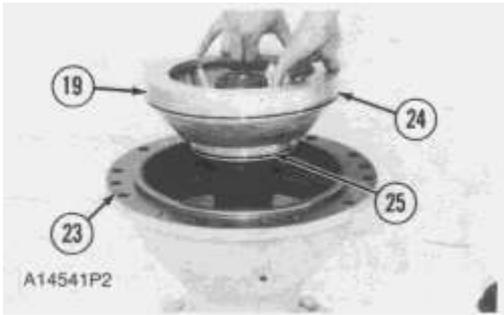
1. Lower the temperature of bearing cup (22) and install it in housing (3).

2. Make sure the Duo-Cone seals for the wheel spindle housing (17) and the wheel spindle are clean and dry. Make sure all metal surfaces that the seals make contact with are clean and dry. Install Duo-Cone seal (18) in wheel spindle housing (17) with tool (A).

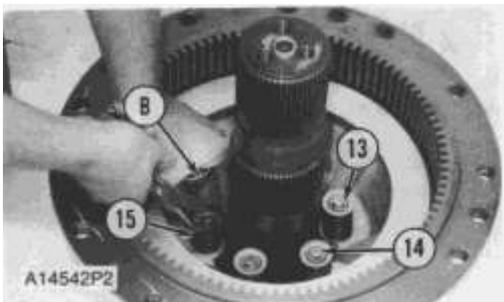


3. Install Duo-Cone seal (18) on wheel spindle (20) with tool (A). Put a small amount of oil on the metal surfaces of the seals that make contact with each other.

4. Heat bearing cone (21) in oil to a maximum temperature of 135°C (275°F). Install bearing cone (21) on the shaft of wheel spindle (20).



5. Install two 5/8" - 11 NC forged eyebolts in housing (23). Fasten a hoist to the eyebolts.
6. Put housing (23) in position on wheel spindle (20). Be careful not to damage the Duo-Cone seals. Remove the hoist and the eyebolts.
7. Install small O-ring seal (24) on the piston. Install the large O-ring seal (25) on piston (19). Install piston (19) in housing (23).



8. Put springs (15) in position on the studs.
9. Put washers (13) in position on the springs.
10. Put springs (15) in compression with tooling (B).
11. Install rings (14) on the studs with pliers.
12. Slowly release the pressure on the springs.
13. Remove tooling (B).



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