

Product: MOTOR GRADER

Model: 140H MOTOR GRADER XZH

Configuration: 140H Motor Grader XZH00001-UP (MACHINE) POWERED BY 3306 Engine

Disassembly and Assembly 12H, 140H and 160H Motor Graders Machine Systems

Media Number -SEN8549-06

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i01357831

Brake and Wheel Spindle Housing - Assemble

SMCS - 4002-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-8698	Duo-Cone Seal Installer	1
B	7M-3976	Adapter	1

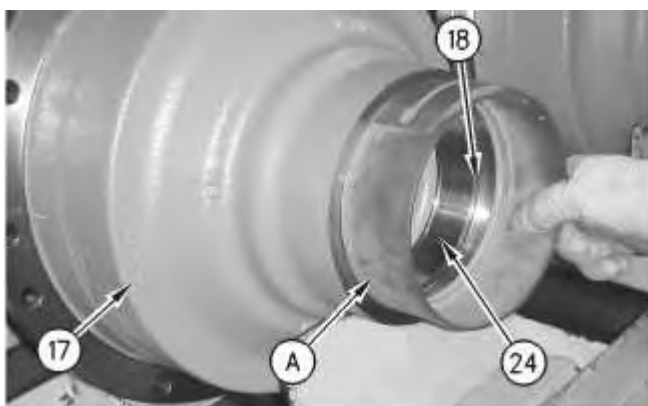


Illustration 1

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1. Lower the temperature of bearing cup (24) and install the bearing cup in housing (17).
2. Make sure that the Duo-Cone seals for wheel spindle housing (17) are clean and dry. Make sure that the wheel spindle is clean and dry. Make sure that all metal surfaces that make

contact with the seals are clean and dry. Use Tool (A) in order to install Duo-Cone seal (18) in wheel spindle housing (17) .

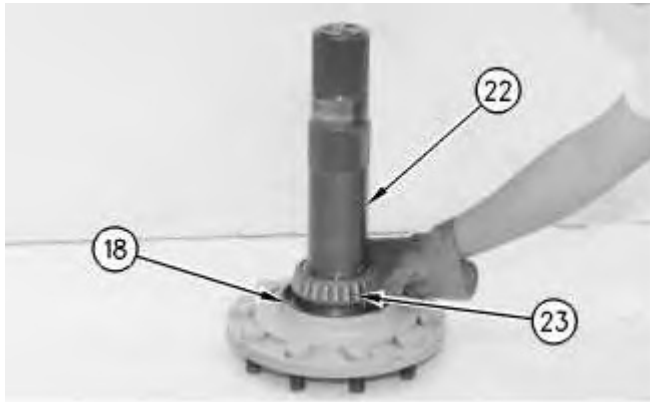


Illustration 2

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3. Use Tool (A) in order to install Duo-Cone seal (18) on wheel spindle (22). Put a small amount of clean oil on the metal faces of the seals.
4. Heat bearing cone (23) in hot oil to a maximum temperature of 135 °C (275 °F). Install bearing cone (23) on the shaft of wheel spindle (22).



Illustration 3

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5. Install small O-ring seal (21) on piston (19). Install large O-ring seal (20) on piston (19). Install piston (19) in housing (17).
 6. Install two 5/8 in - 11 NC Forged Eyebolts (16) in housing (17). Position a hoist to eyebolts (16).
 7. Put housing (17) in position on wheel spindle (22). Be careful not to damage the Duo-Cone seals. Remove the hoist and remove eyebolts (16).
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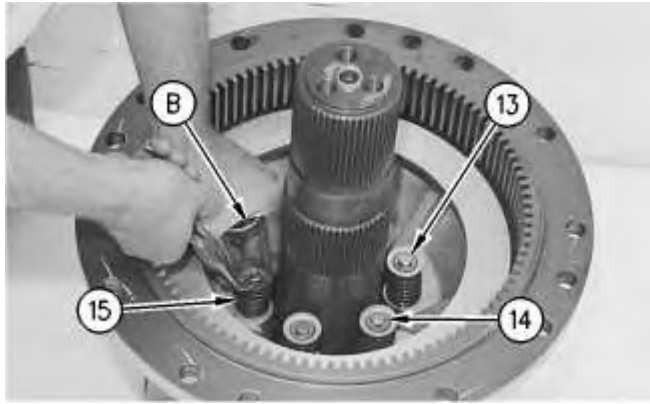


Illustration 4

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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 snap ring pliers.
12. Slowly release the pressure on the springs.
13. Remove Tooling (B).

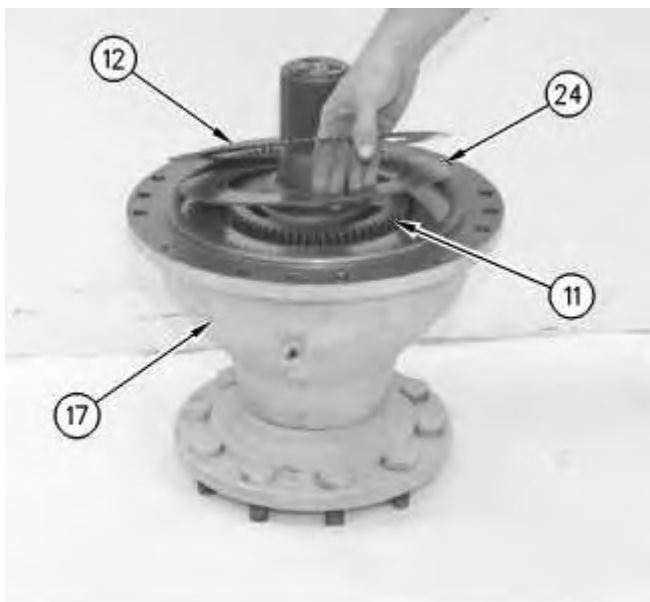


Illustration 5

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14. Install hub (11) on the wheel spindle.
15. Put clean SAE 30 oil on the discs and put clean SAE 30 oil on the disc assemblies.

- Put plates (12) and friction discs (24) in position in wheel spindle housing (17). Start this procedure by installing a plate first. There are ten plates and nine friction discs. Make sure that there is a friction disc between each of the plates.



Illustration 6

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- Install O-ring seal (9) in cover (6).
- Lower the temperature of bearing cup (10) and install the bearing cup in cover (6).

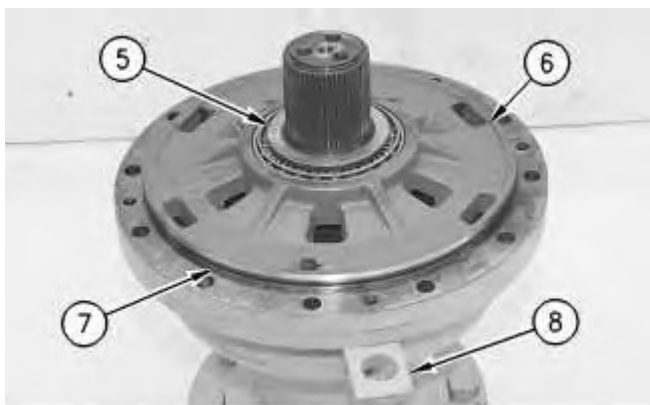


Illustration 7

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- Install O-ring seal (7) on cover (6). Put clean oil on the two O-ring seals.
- Install two 5/8 in - 11 NC Forged Eyebolts in cover (6). Fasten a hoist to the eyebolts.
- Put cover (6) in position on wheel spindle housing (17). Remove the hoist and remove the eyebolts.
- Install the bolts and install plate (8) that holds cover (6) to the housing.
- Install bearing cone (5) on the wheel spindle and in cover (6).

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