

Product: WHEEL SCRAPER
Model: 621G WHEEL SCRAPER ANG
Configuration: 621G WHEEL SCRAPER ANG00001-UP (MACHINE)

Disassembly and Assembly 621G and 627G Wheel Tractor-Scrapers Machine Systems

Media Number -REN1558-00

Publication Date -01/12/2001

Date Updated -12/12/2001

i01541102

Service Brakes - Install

SMCS - 4251-012

S/N - ANG1-UP

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Group	1
B	5P-0167	Brake Spring Tool	1

1. Clean all parts and inspect all parts. If any parts are worn or damaged, use new Caterpillar parts for replacement.

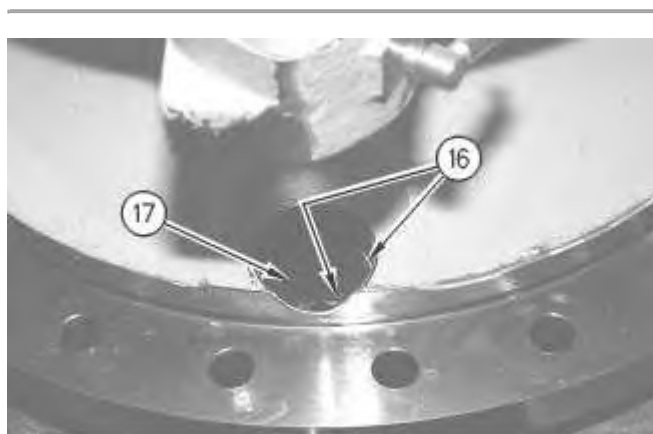


Illustration 1

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2. Use Tooling (A) to install the inner lip seal (16) to the spindle. Install the lip seal until the lip seal is even with the inner surface of the spindle. Install the lip seal with the spring side of the lip seal away from the tooling. Pack needle bearing (17) with **5P-0960** Molybdenum Grease before installation. Use Tooling (A) to install needle bearing (17) to the spindle. Install the needle bearing until the needle bearing is seated against the lip seal. Use Tooling (A) to install outer lip seal (16). Install the lip seal until the lip seal is seated against the needle bearing. Install the lip seal with the spring side of the lip seal toward the tooling. Lubricate the lip seals with **5P-0960** Molybdenum Grease after installation.

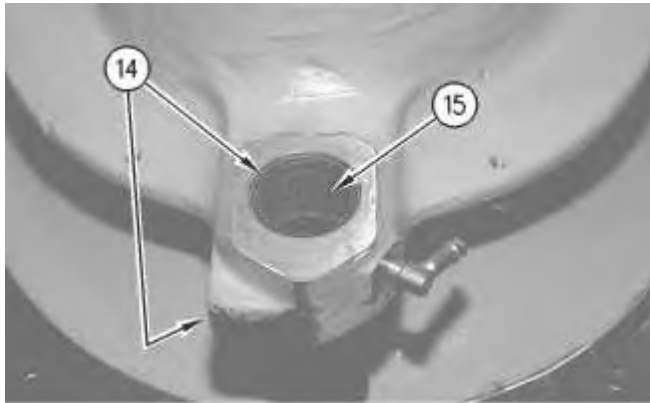


Illustration 2

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3. Use Tooling (A) to install outer lip seal (14) to the spindle. Install the lip seal until the lip seal is even with the surface of the spindle. Install the lip seal with the spring side of the lip seal away from the tooling. Pack needle bearing (15) with **5P-0960** Molybdenum Grease before installation. Use Tooling (A) to install needle bearing (15) to the spindle. Install the needle bearing until the needle bearing is seated against the inner lip seal. Use Tooling (A) to install outer lip seal (14) to the spindle. Install the lip seal until the lip seal is seated against the needle bearing. Install the lip seal with the spring side of the lip seal toward the tooling. Lubricate the lip seals with **5P-0960** Molybdenum Grease after installation.

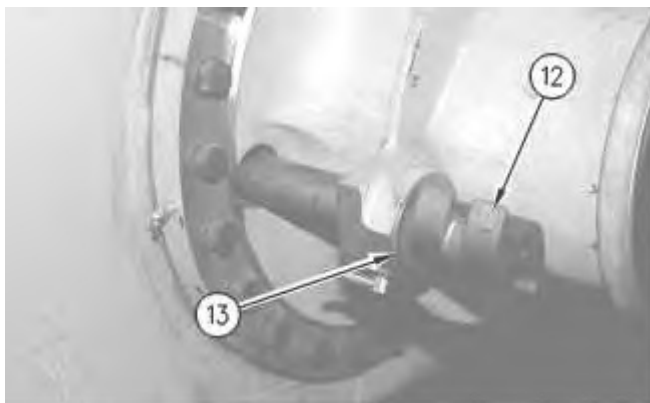


Illustration 3

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4. Install two washers (13) and brake camshaft (12) to the spindle.

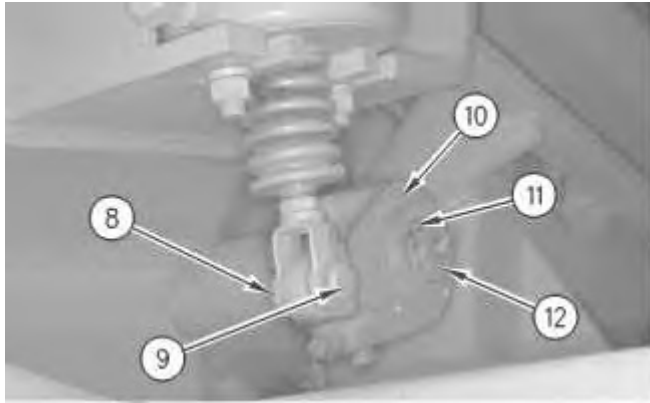


Illustration 4

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5. Install slack adjuster (10) to brake camshaft (12). Install retaining ring (11) that secures slack adjuster (10) to brake camshaft (12). Position slack adjuster (10) to the brake actuator. Install pin (9) that secures slack adjuster (10) to the brake actuator. Install cotter pin (8) that secures pin (9) to the slack adjuster (10) and the brake actuator.

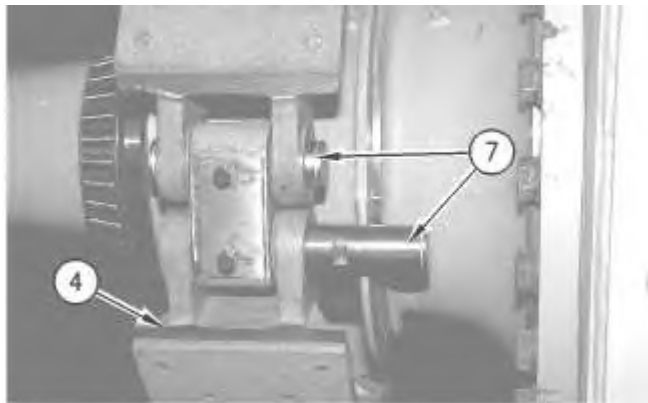


Illustration 5

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6. Position shoe assemblies (4) to the spindle. Install two pins (7) that secure shoe assemblies (4) to the spindle. Position the flat spot on the pins with the bolts in the spindle.
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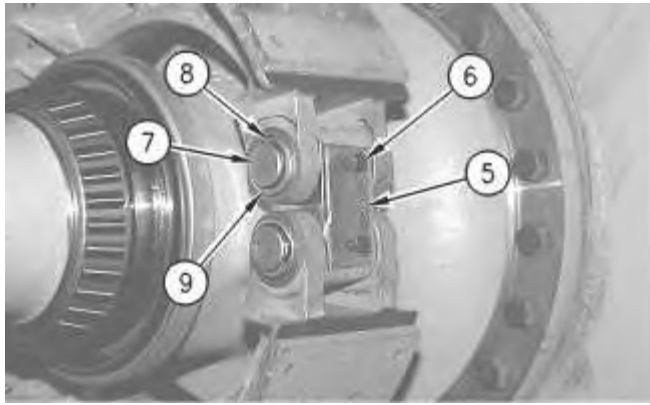


Illustration 6

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7. Position the felt washers and two retainers (9) to two pins (7). Install two springs (8) that secure the felt washers and two retainers (9) to two pins (7). Tighten bolt (6) that secures pin (7) to the spindle. Repeat the procedure for the other pin. Install wire (5) to two bolts (6) .



Illustration 7

g00536680

WARNING

Improper assembly of parts that are spring loaded can cause bodily injury.

To prevent possible injury, follow the established assembly procedure and wear protective equipment.

8. Use Tooling (B) to install two springs (3) to shoe assemblies (4) .

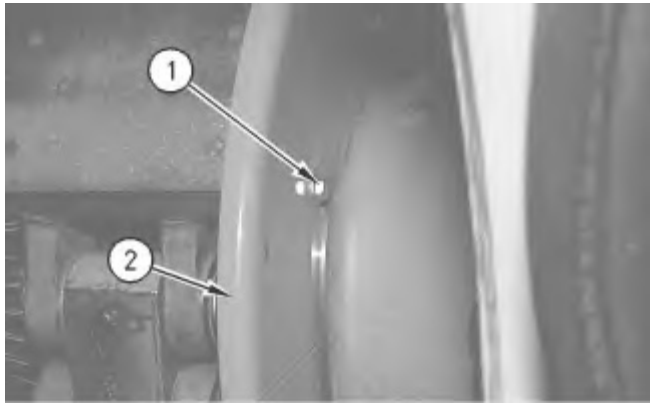


Illustration 8

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9. Position two dust shields (2) to the spindle. Install the washers and four bolts (1) that secure two dust shields (2) to the spindle.
10. Adjust the service brakes. Refer to the Testing and Adjusting, "Air System and Brakes" service manual for the correct adjustment procedure.

End By: Install the tire. Refer to Disassembly and Assembly, "Wheel, Wheel Bearings and Duo-Cone Seals - Install".

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i01586922

Apron Cylinder - Remove

SMCS - 5301-011

S/N - ANG1-UP

S/N - AYK1-UP

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-4578	Half Flange	4
	5H-4020	Cover	2

Start By:

- A. Release system pressure. Refer to Disassembly and Assembly, "System Pressure - Release".
- B. Remove apron lift. Refer to Disassembly and Assembly, "Apron Lift - Remove".

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

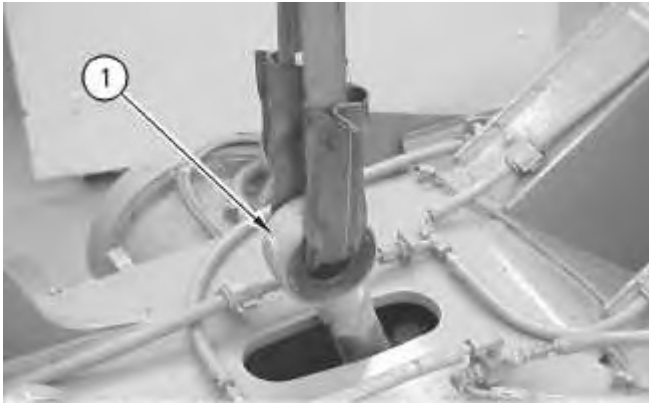


Illustration 1

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1. Attach a suitable lifting device around apron cylinder (1) .

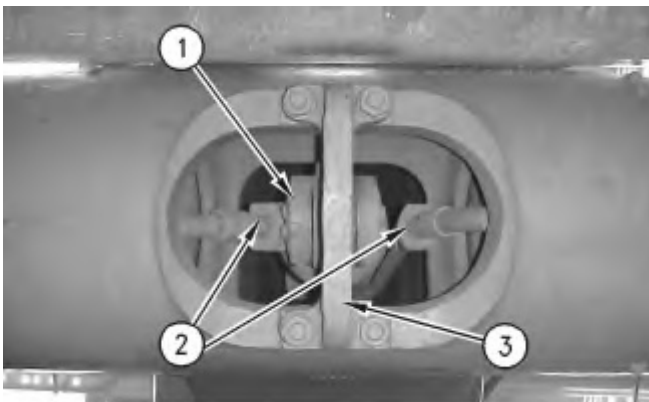


Illustration 2

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2. Put identification marks on all lines, hoses, wires, and tubes for installation purposes. Plug all lines, hoses and tubes. This helps prevent fluid loss and contamination of the oil system.
 3. Remove two hose assemblies (2) and attach Tool (A) in order to prevent the apron cylinder from drifting during removal.
 4. Remove bracket assembly (3) and lower apron cylinder (1) to the ground.
 5. The apron cylinder weighs 191 kg (420 lb). The bracket assembly weighs 33.5 kg (73.85 lb).
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