Caterpillar Disassembly And Assembly Transmission 950g And 962g Wheel Loader

Previous Screen

Product: WHEEL LOADER
Model: 950G WHEEL LOADER 4BS
Configuration: 950G Wheel Loader 4BS00001-UP (MACHINE) POWERED BY
3126 Engine

Disassembly and Assembly
950G and 962G Wheel Loaders and IT62G Integrated Toolcarrier Power Train
Media Number -SENR1381-10   Publication Date -01/10/2007   Date Updated -25/10/2007

i00750802

Steering Frame Lock - Separate and Connect

SMCS - 7506-029

Connection Procedure

Personal injury or death can result from machine articulation or movement.

Machine frames can move and a person can be crushed.

Connect the steering frame lock link between the front and rear frames before working on machine. Secure clevis pin with locking pin.

Before operating the machine, fasten the steering frame lock link into the stored position and secure the clevis pin with locking pin.

Failure to lock into the stored position before operating can result in loss of steering.

1. Move the machine to a hard, level surface. Park the machine in the straight ahead position and engage the parking brake.

Illustration 1 g00288845

2. Remove locking pin (2) from pin (1) .

Illustration 2 g00288846

3. Move steering frame lock (3) in position to the front frame. Install pin (1) and locking pin (2) .

Note: To align the pin bores, move the front loader frame.

Separation Procedure

Personal injury or death can result from machine articulation or movement.

Machine frames can move and a person can be crushed.

Connect the steering frame lock link between the front and rear frames before working on machine. Secure clevis pin with locking pin.

Before operating the machine, fasten the steering frame lock link into the stored position and secure the clevis pin with locking pin.

Failure to lock into the stored position before operating can result in loss of steering.

Illustration 3 g00288846

1. Remove locking pin (2) and pin (1). Move steering frame lock (3) to the storage position.

Illustration 4 g00288845

2. Install pin (1) and locking pin (2) .

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i01444912

System Pressure - Release

SMCS - 4250-553-PX; 4300-553-PX; 5050-553-PX

Release Procedure

Start By:

A. Connect the steering frame lock. Refer to Disassembly and Assembly, "Steering Frame Lock".

Personal injury can result from hydraulic oil pressure and hot oil.

Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.

Make sure all of the work tools have been lowered to the ground, and the oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.

Escaping fluid under pressure, even a pinhole size leak, can penetrate body tissue, causing serious injury, and possible death. If fluid is injected into your skin, it must be treated immediately by a doctor

familiar with this type of injury.

Always use a board or cardboard when checking for a leak.

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.

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1. Move the machine to a location that is smooth, level, and hard. The location should also be dry and free of debris. Stop the engine.

2. Permit only one operator on the machine. All other personnel should be kept away from the machine.

3. Lower the bucket and/or work tools to the ground.

4. Engage the parking brake.

5. Stop the engine.

   Note: If the machine is equipped with electro-hydraulic controls, turn the engine start switch key to the ON position before performing the next step. The engine start switch key must then be turned back to the OFF position before proceeding.

6. Move the control levers several times through the full range of travel. This will relieve any pressure that may be present in the implement hydraulic system.

7. Depress the brake pedal repeatedly. This will relieve any pressure that may be present in the braking system.

8. Push in the plunger for the hydraulic tank breaker relief valve until all pressure is released.

   Note: If the machine is not equipped with a hydraulic tank breaker relief valve, the hydraulic tank cap may be removed slowly in order to relieve tank pressure.

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Product: WHEEL LOADER
Model: 950G WHEEL LOADER 4BS
Configuration: 950G Wheel Loader 4BS00001-UP (MACHINE) POWERED BY
3126 Engine

Specifications
950G Wheel Loader, 962G Wheel Loader and IT62G Integrated Toolcarrier Braking System

Media Number -SENR1385-05   Publication Date -01/01/2002   Date Updated -16/11/2001
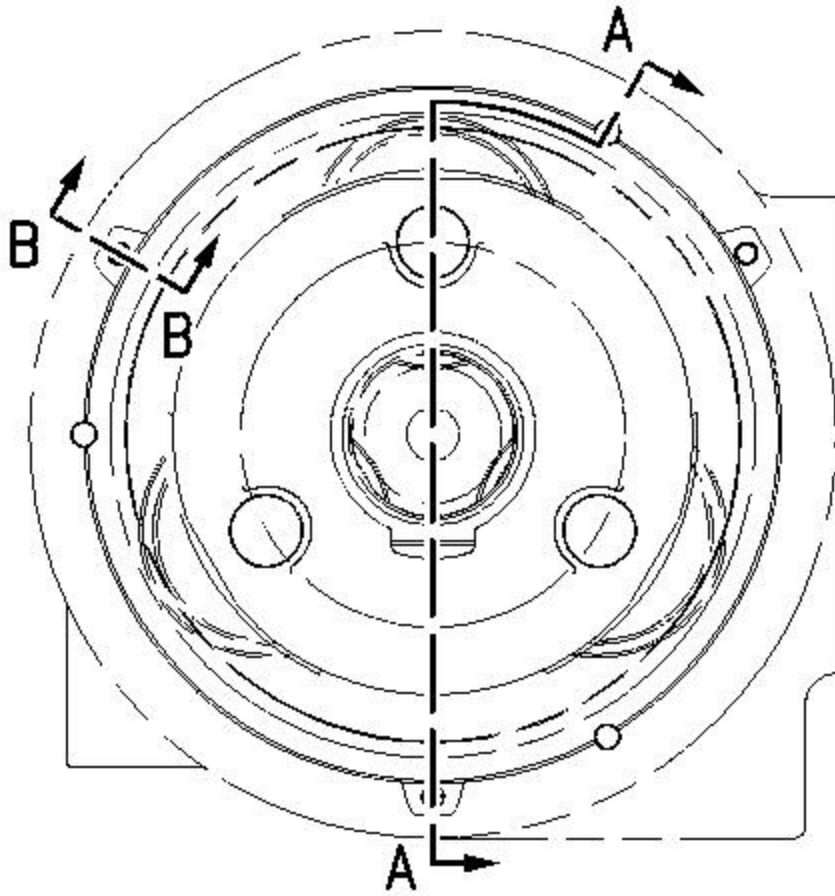
i01793848

Service Brakes
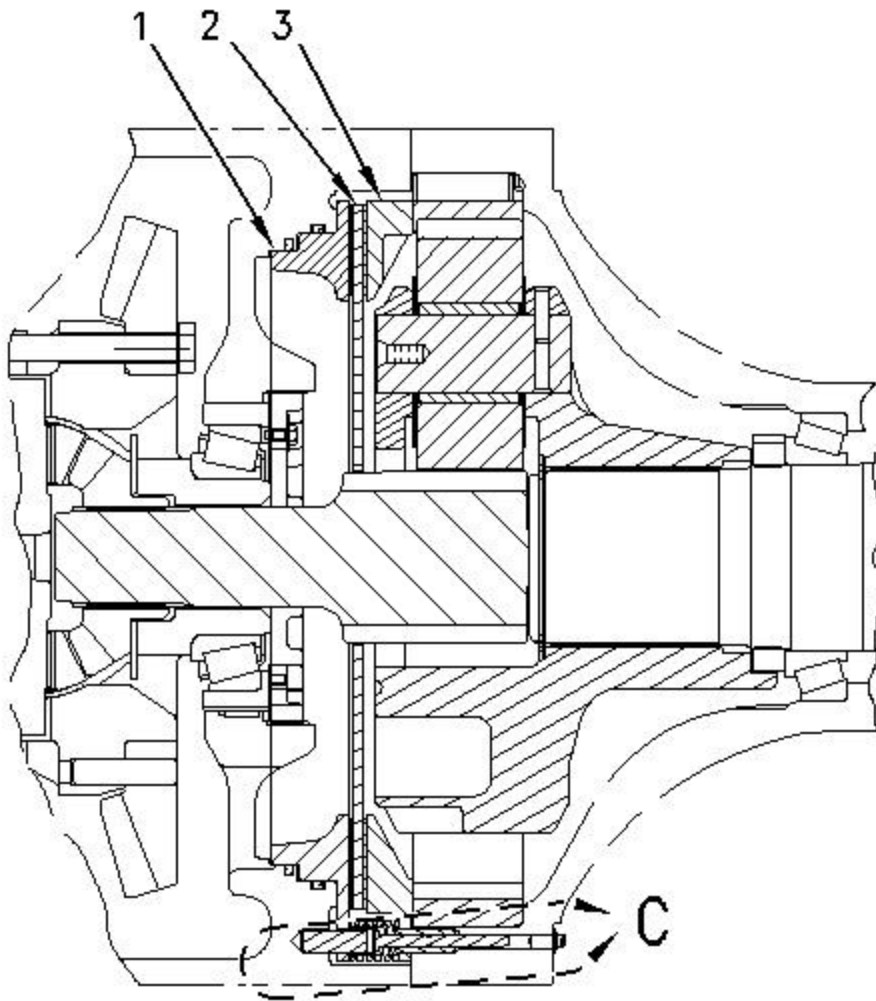
SMCS - 4011

Illustration 1

End View of the Service Brakes

Illustration 2

g00917951

View A-A

(1) Thickness of a new **8R-4568** Piston ... 45.00 ± 0.13 mm (1.772 ± .005 inch)

(2) Thickness of a **6Y-2084** Friction Disc

    New disc ... 9.1 ± 0.13 mm (.358 ± .005 inch)
    Worn disc ... 7.65 mm (.301 inch)

(3) Thickness of new **9C-8418** Reaction Plate ... 26.20 ± 0.13 mm (1.032 ± .005 inch)

Reference: For more information on measuring the thickness of a friction disc, refer to the Service Manual module Testing and Adjusting, "Service Brake Wear Indicator - Check" for the machine that is being serviced.
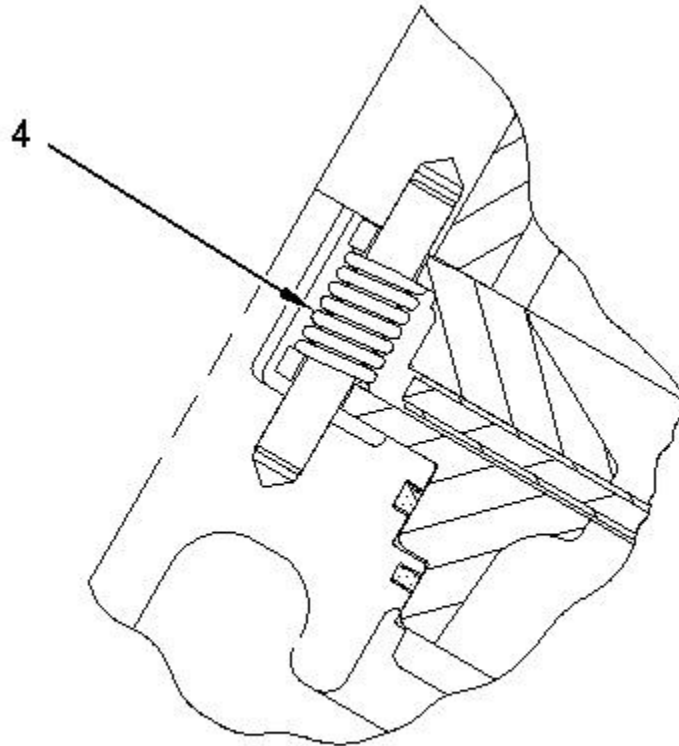
g00917954

Illustration 3

View B-B

(4) **112-0762** Springs (two)

    Length under test force ... 27.8 mm (1.09 inch)
    Test force ... 484 ± 24 N (109 ± 5 lb)
    Free length after test ... 36.6 mm (1.44 inch)
    Outside diameter ... 23.75 mm (.935 inch)
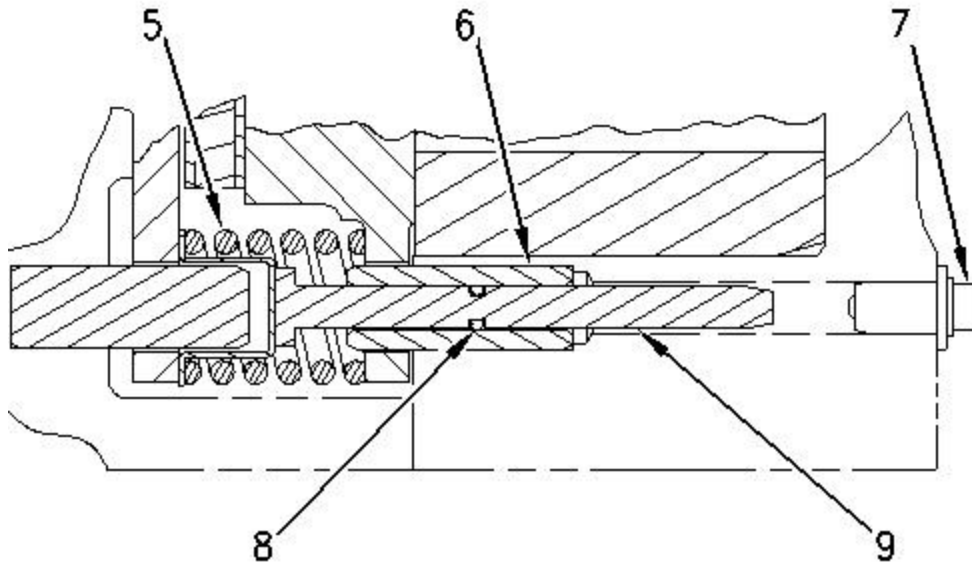
g00917959

Illustration 4

Detail C

(5) **112-0762** Spring

       Length under test force ... 27.8 mm (1.09 inch)
       Test force ... 484 ± 24 N (109 ± 5 lb)
       Free length after test ... 36.6 mm (1.44 inch)
       Outside diameter ... 23.75 mm (.935 inch)

(6) Apply **4C-9507** Retaining Compound to the outside diameter of the dowel prior to installation. Make sure that the dowel is against the bottom of the dowel hole.

(7) Torque for the bolt ... 0.45 ± 0.05 N·m (4.0 ± .4 lb in)

(8) Heavily lubricate the entire seal with the lubricant that is being sealed.

(9) Heavily lubricate the entire pin with the lubricant that is being sealed.

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Specifications

950G Wheel Loader, 962G Wheel Loader and IT62G Integrated Toolcarrier Power Train

Media Number -SENR1378-05   Publication Date -01/05/2002   Date Updated -10/05/2002
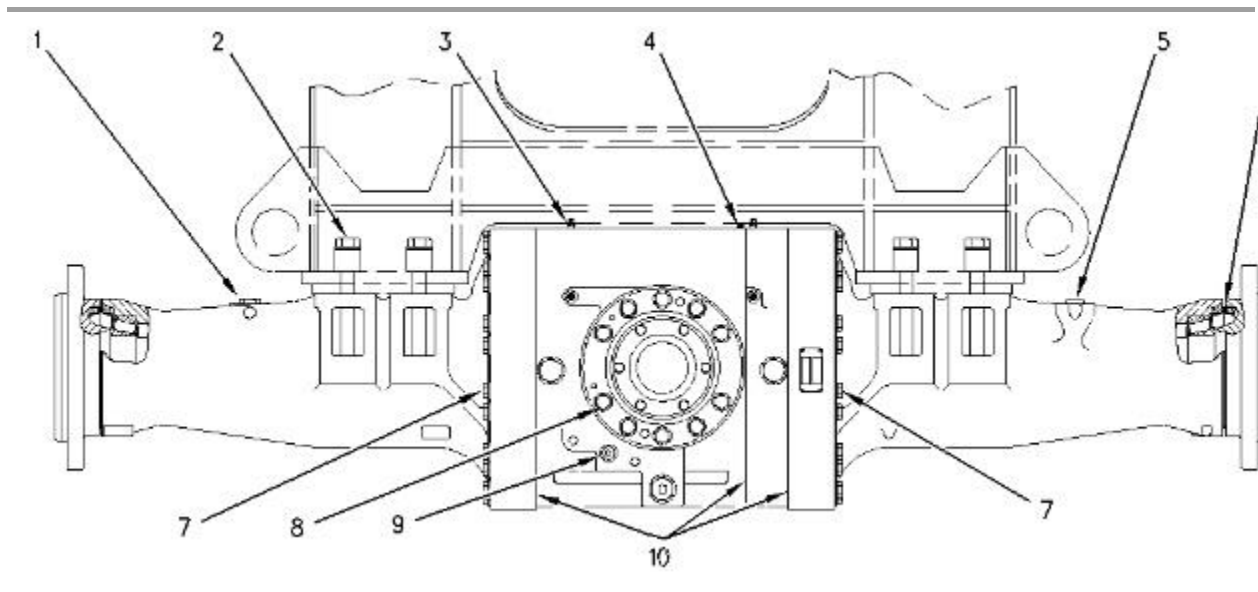
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Fixed Axle Housing

SMCS - 3260

Illustration 1

g00283165

(1) Torque for the gauge assembly ... 45 ± 6 N·m (33 ± 4 lb ft)

(2) Torque for the eight bolts ... 1000 ± 125 N·m (740 ± 90 lb ft)

(3) Torque for the two air purge screws ... 11 ± 4 N·m (8 ± 3 lb ft)

(4) Torque for the pressure relief fitting ... 13 ± 4 N·m (10 ± 3 lb ft)

(5) Torque for the plug ... 45 ± 6 N·m (33 ± 4 lb ft)

(6) At assembly, rubber toric seals must be clean and dry and all surfaces that contact rubber toric seals must be clean and dry. Immediately before installation, apply a thin layer of oil on the surfaces of the metal seals that contact the rubber toric seals. The seal must be assembled square with the bore. Rubber toric seals must not have bulged and these seals must also not have twisted.

(7) Torque for the twenty-four bolts (each side) ... 300 ± 40 N·m (220 ± 30 lb ft)

(8) Torque for the ten bolts ... 300 ± 40 N·m (220 ± 30 lb ft)

(9) Torque for the plug ... 75 ± 7 N·m (55 ± 5 lb ft)

(10) Apply **1U-8846** Liquid Gasket to the contacting surfaces prior to assembly.
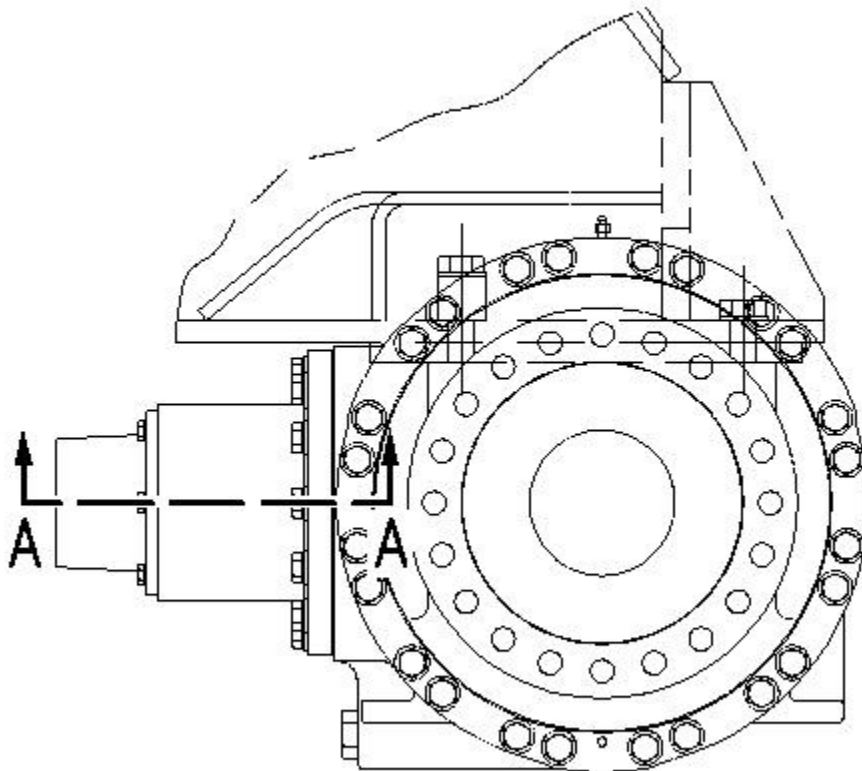
g00290097

Illustration 2

Right Side View
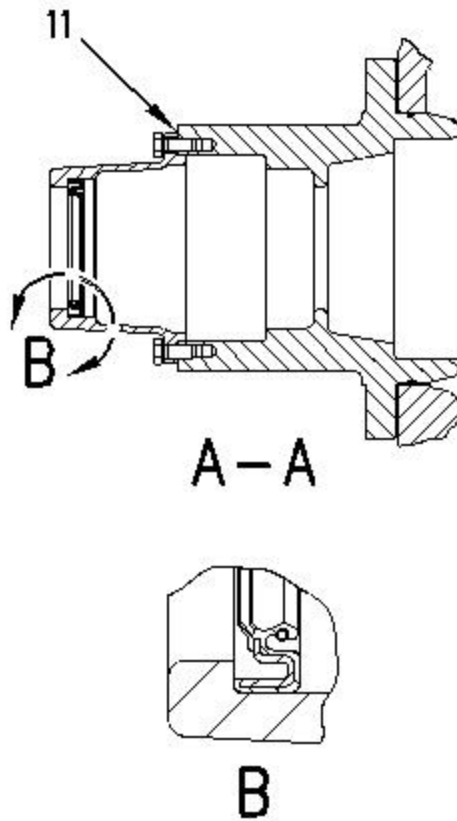
Illustration 3   g00290098

Section A-A and Detail B

(11) Apply **1U-8846** Liquid Gasket to the contacting surfaces prior to assembly.

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◄ Product: WHEEL LOADER
   Model: 950G WHEEL LOADER 4BS
   Configuration: 950G Wheel Loader 4BS00001-UP (MACHINE) POWERED BY
   3126 Engine

Specifications

i03611488

Fixed Axle Housing

SMCS - 3260
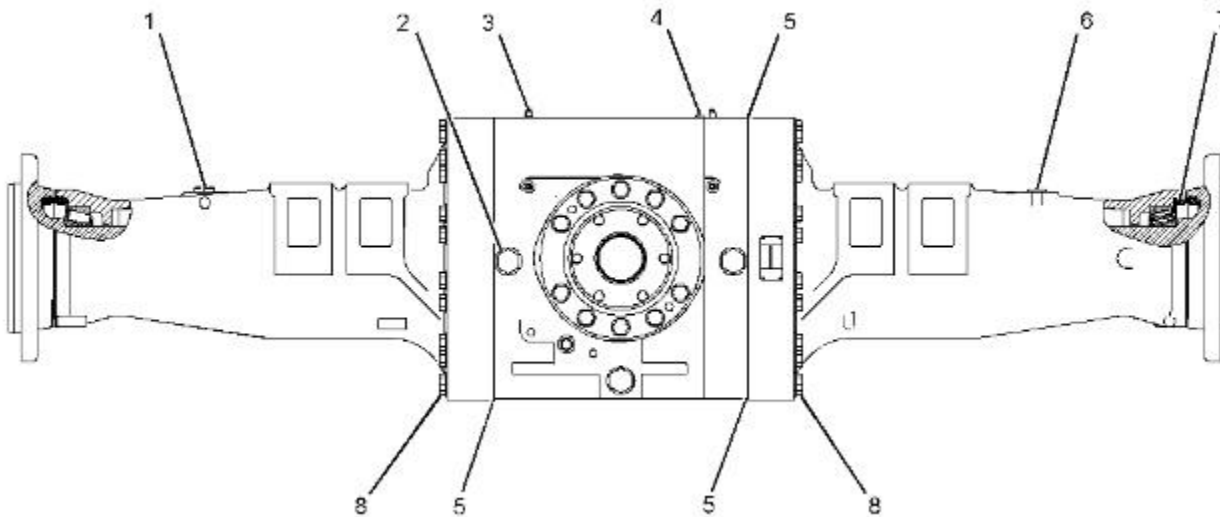

Illustration 1   g01936153

Rear view

(1) Torque for the oil level gauge assembly ... 45 ± 6 N·m (33 ± 4 lb ft)

(2) Torque for two O-ring plugs ... 210 ± 20 N·m (155 ± 15 lb ft)

(3) Torque for two purge screws ... 11 ± 4 N·m (97 ± 35 lb in)

(4) Torque for the pressure relief fitting ... 13 ± 4 N·m (115 ± 35 lb in)

(5) Apply **1U-8846** Liquid Gasket to the mating surfaces before assembly.

(6) Torque for the pipe plug ... 45 ± 6 N·m (33 ± 4 lb ft)

(7) The rubber toric seals and all the contacting surfaces must be clean and dry at assembly. Prior to assembly, apply a thin layer of oil to the contacting surfaces of the metal seal rings. The seal rings must be assembled square with the bore. The rubber toric seal should not bulge and the

rubber toric seal should not twist. Refer to Special Instruction, SEHS8364, "Assembly and Installation of Conventional Duo-Cone Seals".

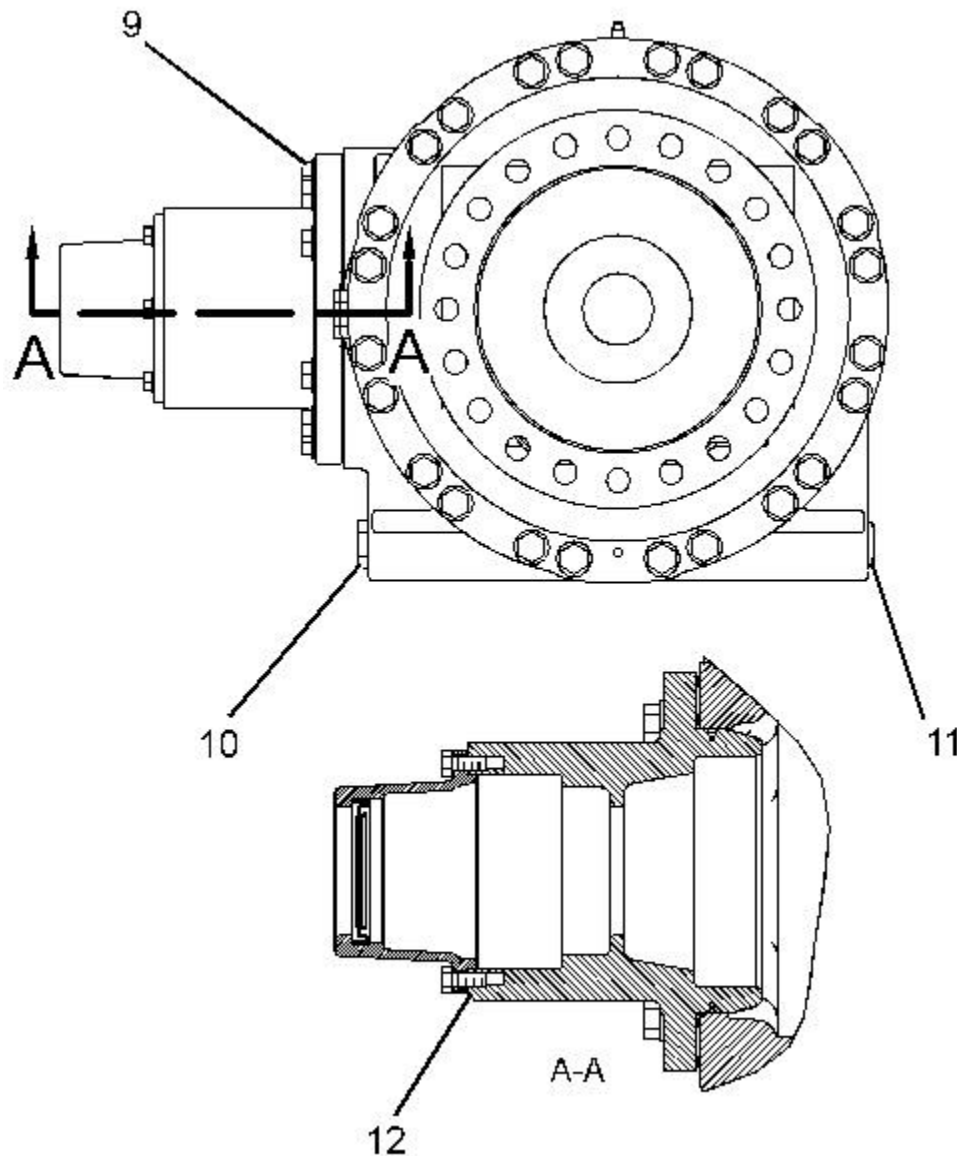(8) Torque for 48 bolts ... 300 ± 40 N·m (221 ± 30 lb ft)

g01936155

Illustration 2

Right side view

(9) Torque for 10 bolts ... 300 ± 40 N·m (221 ± 30 lb ft)

(10) Torque for the magnetic plug ... 210 ± 20 N·m (155 ± 15 lb ft)

(11) Torque for the O-ring plug ... 210 ± 20 N·m (155 ± 15 lb ft)

(12) Apply **1U-8846** Liquid Gasket to the mating surfaces before assembly.

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   3126 Engine

Specifications
950G Wheel Loader, 962G Wheel Loader and IT62G Integrated Toolcarrier Power Train
Media Number -SENR1378-05   **Publication Date -01/05/2002**   **Date Updated -10/05/2002**

i01755256

Oscillating Axle Housing

SMCS - 3260

g00283182

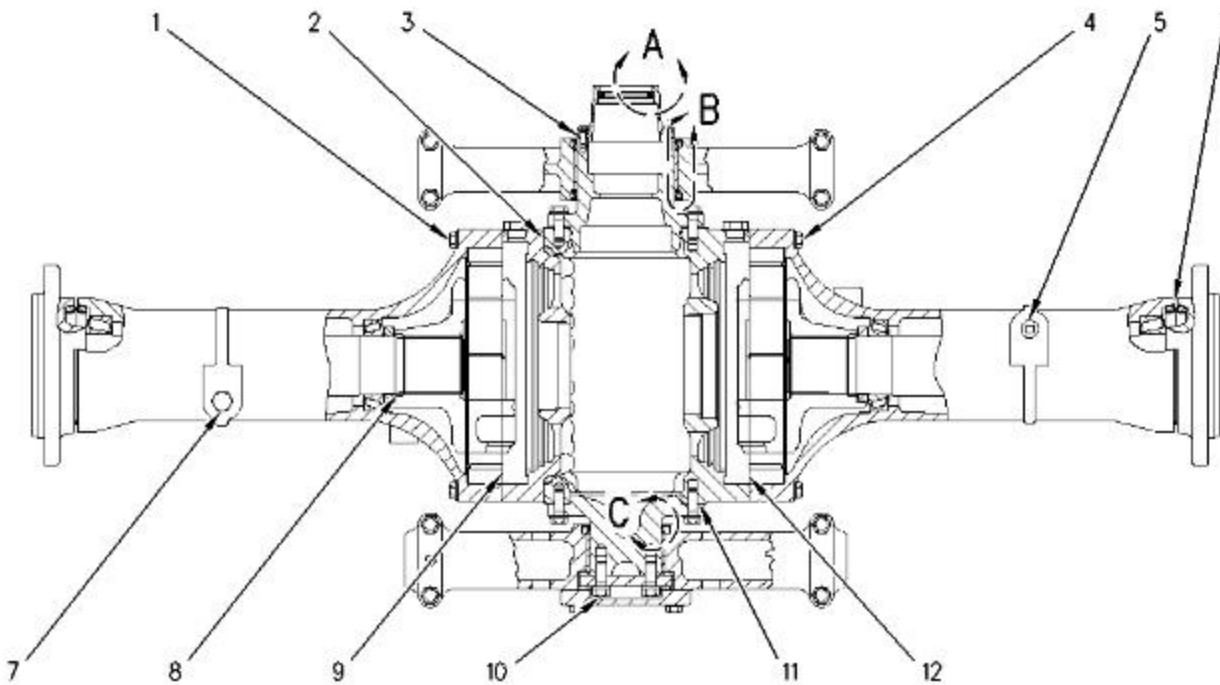Illustration 1

(1) Torque for the twenty-four bolts ... 300 ± 40 N·m (220 ± 30 lb ft)

(2) (3) Apply **1U-8846** Liquid Gasket to the contacting surfaces prior to assembly.

(4) Torque for the twenty-four bolts ... 300 ± 40 N·m (220 ± 30 lb ft)

(5) Torque for the plug ... 45 ± 6 N·m (33 ± 4 lb ft)

(6) At assembly, rubber toric seals must be clean and dry and all surfaces that contact rubber toric seals must be clean and dry. Immediately before installation, apply a thin layer of oil on the surfaces of the metal seals that contact the rubber toric seals. The seal must be assembled square with the bore. Rubber toric seals must not have bulged and these seals must also not have twisted.

(7) Torque for the gauge assembly ... 45 ± 6 N·m (33 ± 4 lb ft)

(8) For additional information on the axle housing and bearings, refer to the Service Manual module for Testing and Adjusting, "Axle Housing and Bearing Preload - Adjust" for the machine that is being serviced.

(9) Apply **1U-8846** Liquid Gasket to the contacting surfaces prior to assembly.

(10) Torque for the four bolts ... 570 ± 80 N·m (420 ± 60 lb ft)

(11) (12) Apply **1U-8846** Liquid Gasket to the contacting surfaces prior to assembly.
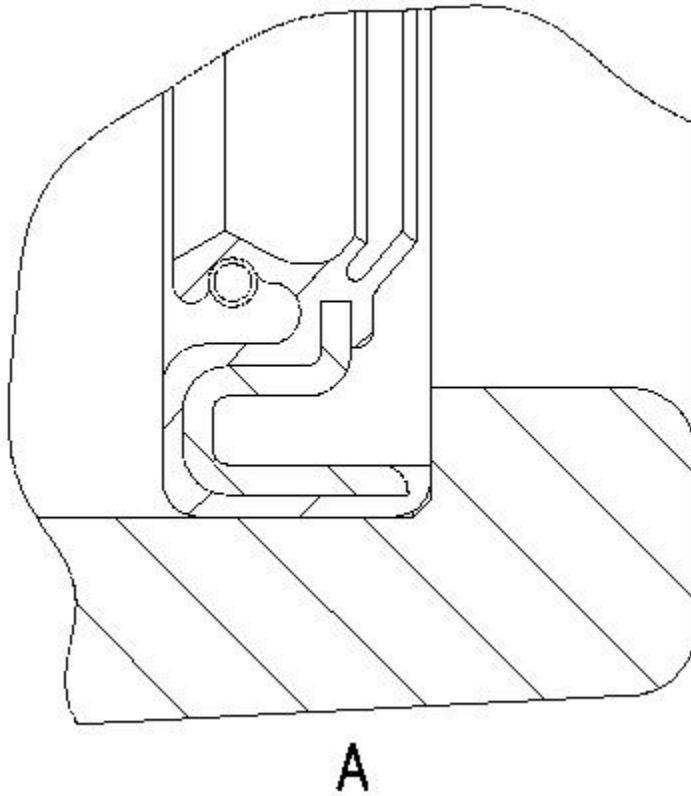

A

g00290383

Illustration 2
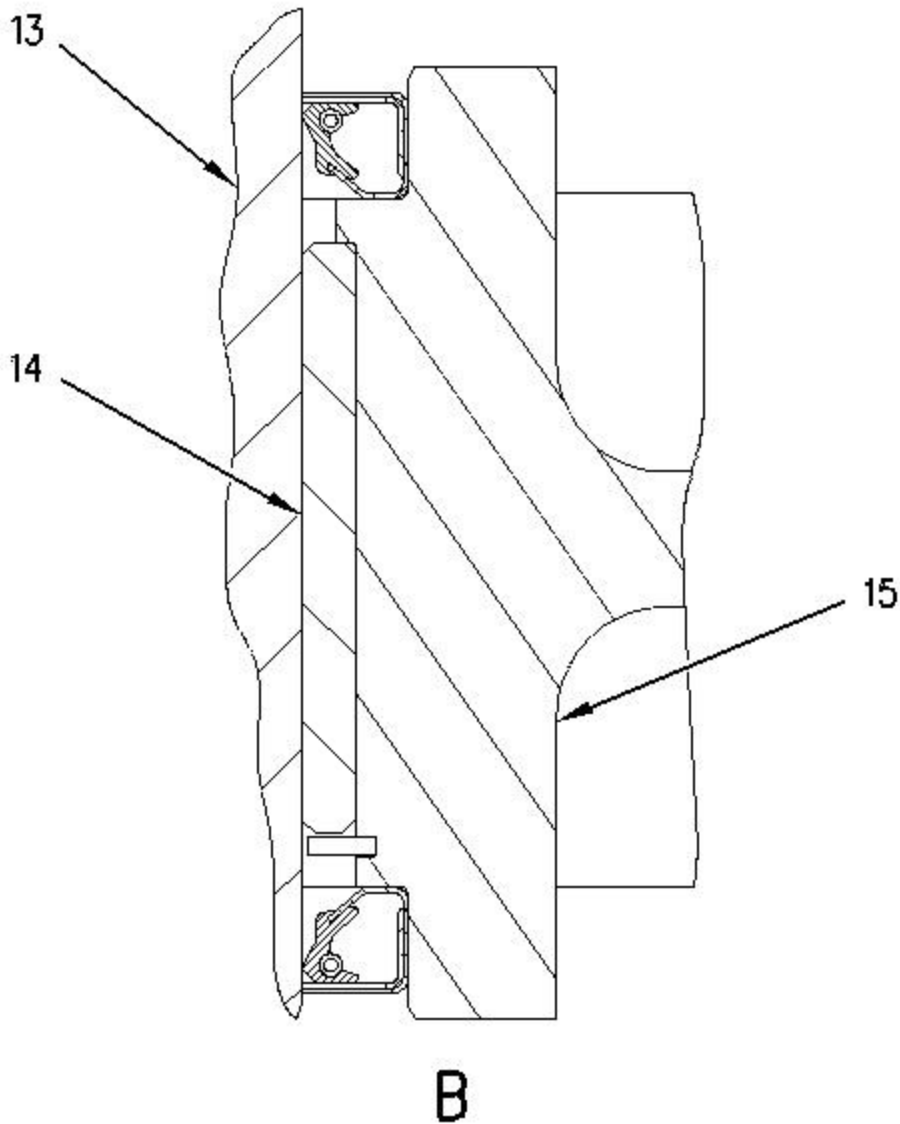
Detail A

Illustration 3   g00290384

Detail B

(13) Outside diameter of the pinion housing ... 174.50 ± 0.08 mm (6.870 ± .003 inch)

(14) Sleeve Bearing

    Inside diameter of the sleeve bearing ... 175.41 ± 0.13 mm (6.906 ± .005 inch)
    Outside diameter of the sleeve bearing ... 187.81 ± 0.08 mm (7.394 ± .003 inch)

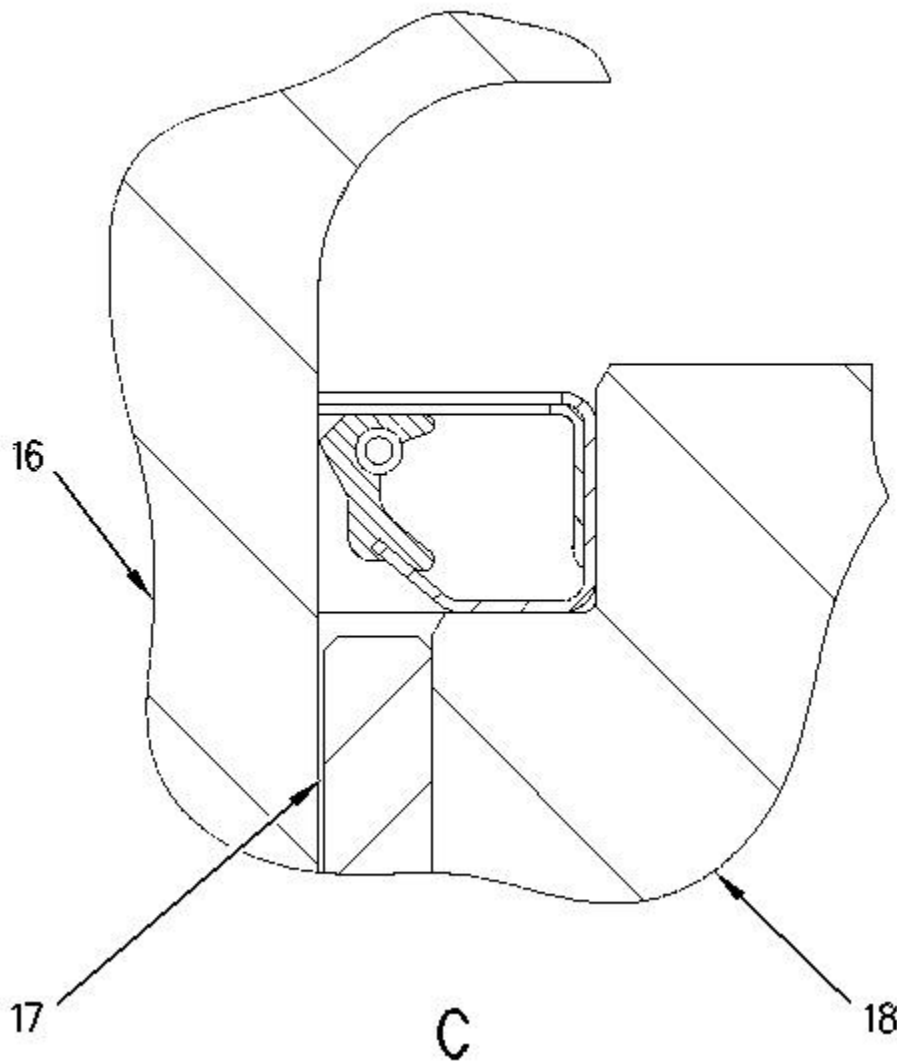(15) Inside diameter of the trunnion support ... 187.33 ± 0.05 mm (7.375 ± .002 inch)

Illustration 4

Detail C

(16) Outside diameter of the trunnion ... 126.80 ± 0.08 mm (4.992 ± .003 inch)

(17) Sleeve Bearing

Inside diameter of the sleeve bearing ... 127.80 ± 0.10 mm (5.032 ± .004 inch)
Outside diameter of the sleeve bearing ... 140.20 ± 0.10 mm (5.520 ± .004 inch)

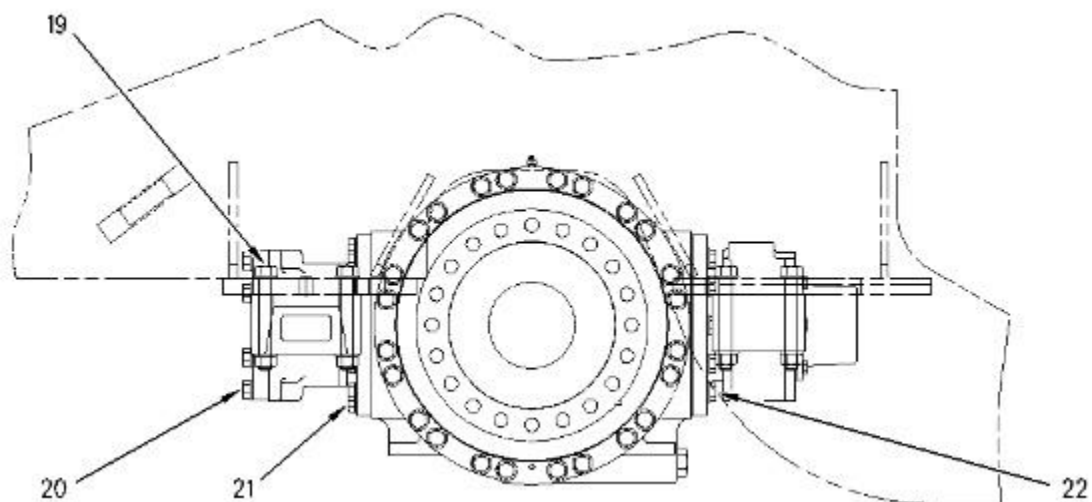(18) Inside diameter of the trunnion support ... 139.75 ± 0.05 mm (5.502 ± .002 inch)

g00290386

Illustration 5

Right Side View

(19) Torque for the eight bolts ... 530 ± 70 N·m (390 ± 50 lb ft)

(20) Torque for the six bolts ... 300 ± 40 N·m (220 ± 30 lb ft)

(21) Torque for the twelve bolts ... 300 ± 40 N·m (220 ± 30 lb ft)

(22) Torque for the twelve bolts ... 300 ± 40 N·m (220 ± 30 lb ft)