

Document Title: Counterweight, removal	Function Group: 716	Information Type: Service Information	Date: 2014/7/7 0
Profile:			

Counterweight, removal

Op nbr 716-01

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Lifting eyes 2 pcs. (M30)



WARNING

The work involves handling of heavy components. Pay attention and work with great care, otherwise accidents and crushing injuries may occur.



WARNING

Heavy lift. Make sure that nobody is standing under the counterweight when it is lifted.

1. Park the machine on a horizontal and stable surface.

NOTE!

If the machine is equipped with a stabiliser blade, it must be lowered against the ground surface.

2. Loosen the mountings **1** and the gas struts **2**. Remove the engine hood.

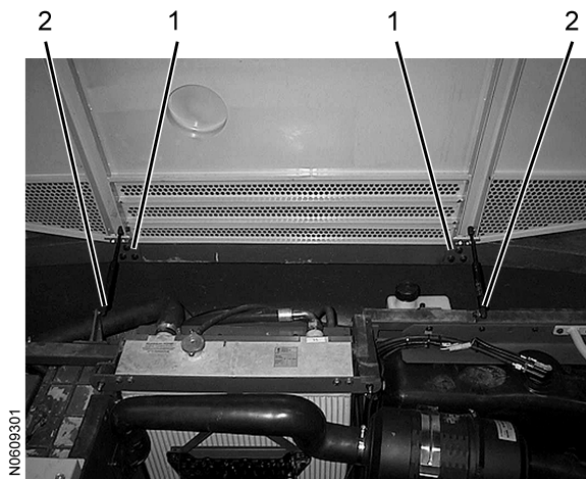


Figure 1
Engine hood, counterweight

1. Mountings
2. Gas struts
3. Remove the protective plugs from the holes for the lifting eyes.
4. Fit the lifting eyes **1**.
5. Connect a lifting sling (min. 3.5 ton) between the lifting eyes and a lifting device. Tighten the lifting sling.

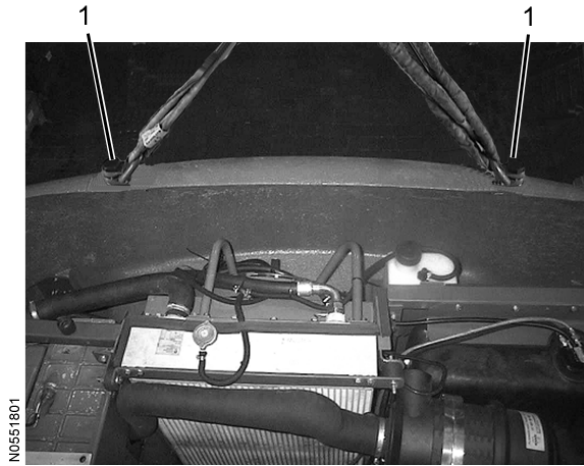


Figure 2
Counterweight

1. Lifting eyes
6. Remove the inspection covers **1** (2 covers, left and right side).



Figure 3
Inspection cover, underside of counterweight

1. Inspection cover
7. Unplug the connectors **1** for the tail lights (2 connectors, left and right side).



Figure 4

Inside of counterweight

1. Connectors
8. Remove the bolts **1** (4 bolts).



Figure 5
Counterweight mounting

1. Bolt
9. Lift away the bolt supports (2 supports) on the inside of the counterweight.
10. Carefully lift away the counterweight. Make sure that the fan motor is not damaged.

NOTE!

Check and note the number of spacers **1** by the mountings.

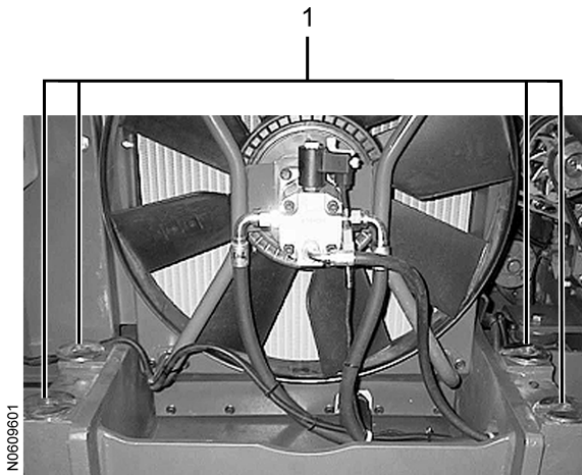


Figure 6
Counterweight mounting

1. Spacers
11. Lower the counterweight on a horizontal, firm surface and support it so that it cannot fall over.
12. Remove the lifting sling.

Document Title: Counterweight, installation	Function Group: 716	Information Type: Service Information	Date: 2014/7/7 0
Profile:			

Counterweight, installation

Op nbr 716-02

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Lifting eyes 2 pcs. (M30)

WARNING

The work involves handling of heavy components. Pay attention and work with great care, otherwise accidents and crushing injuries may occur.

WARNING

Heavy lift. Make sure that nobody is standing under the counterweight when it is lifted.

1. Check that the number of spacers **1** corresponds to the number previously noted.

NOTE!

Centre the spacers in relation to the holes.

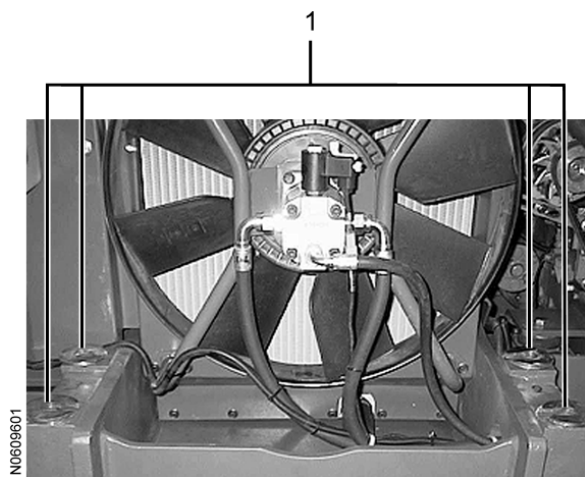


Figure 1
Counterweight mounting

1. Spacers
2. Connect a lifting sling (min. 3.5 ton) between the lifting eyes **1** and a lifting device. Tighten the lifting sling.
3. Carefully lift the counterweight into position. Make sure that the fan motor is not damaged.

NOTE!

The spacers must not move out of position when the counterweight is lowered.

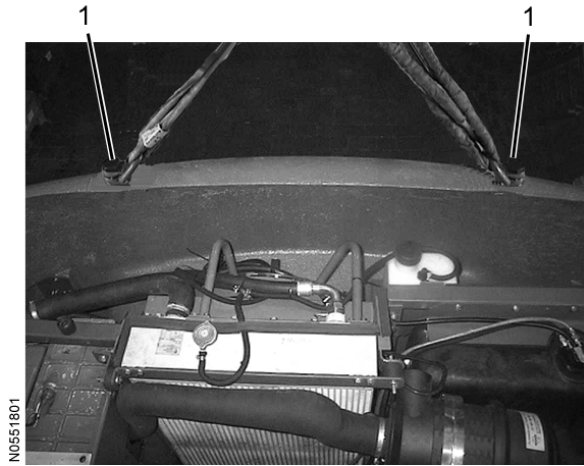


Figure 2
Counterweight

1. Lifting eyes
4. Fit the bolt supports (2 supports) on the inside of the counterweight.
5. Fit the bolts **1** (4 bolts) and tighten them.
Tightening torque: **900 Nm**.



Figure 3
Counterweight mounting

1. Bolt
6. Remove the lifting sling from the lifting eyes.
7. Remove the lifting eyes and fit the protective plugs in the holes.
8. Plug in the connectors **1** for the tail lights (2 connectors, left and right side).



Figure 4
Inside of counterweight

1. Connectors

9. Fit the inspection covers **1** (2 covers, left and right side).



Figure 5
Inspection cover, underside of counterweight

1. Inspection cover

10. Fit the engine hood by fastening the mountings **1** and gas struts **2**.

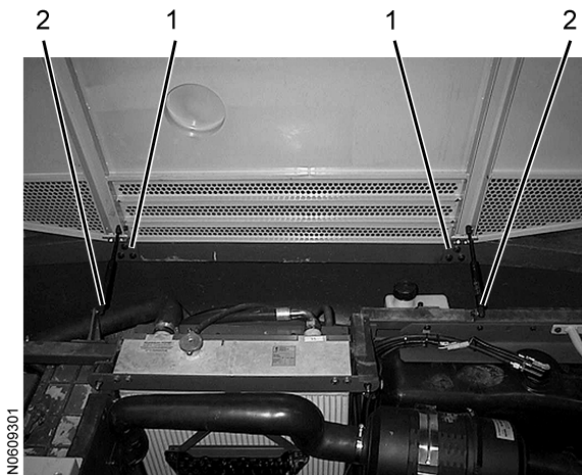


Figure 6

Engine hood, counterweight

1. Mountings
2. Gas struts

Document Title: Undercarriage, description	Function Group: 7182	Information Type: Service Information	Date: 2014/7/7 0
Profile:			

Undercarriage, description

The undercarriage is built of a strong framework, a so-called box construction. Both wheel axles are anchored to the framework as well as connected to each other by a 2-part propeller shaft. The transmission is of the PowerShift type, which means that the operator can shift between low and high speed without first stopping the machine. The transmission is mounted directly on the rear axle. The machine has 4-wheel drive. The steering cylinder is integrated in the front axle. The excavator is equipped with wet disc brakes both on the front and rear axle. The under carriage is supplied with hydraulic oil and electricity through the centre passage.

Document Title: Oscillation lock cylinder, removal	Function Group: 7631	Information Type: Service Information	Date: 2014/7/7 0
Profile:			

Oscillation lock cylinder, removal

Op nbr 7631-01

14 360 000 Vacuum pump

NOTE!

The method shows removal of the right oscillation lock cylinder, the same method can be used for the left.



Plug all pipes and connections when they have been disconnected.

1. Connect the vacuum pump, see *Vacuum pump, connection* in Section 9.
2. Place a container under the oscillation lock cylinder in order to collect any oil spills.
3. Depressurize the oscillation lock cylinder by opening the breather hole **2** and press up the piston **1** with, for example, a small pry bar. Make sure that the piston does not contact the axle. Then, close the breather hole.

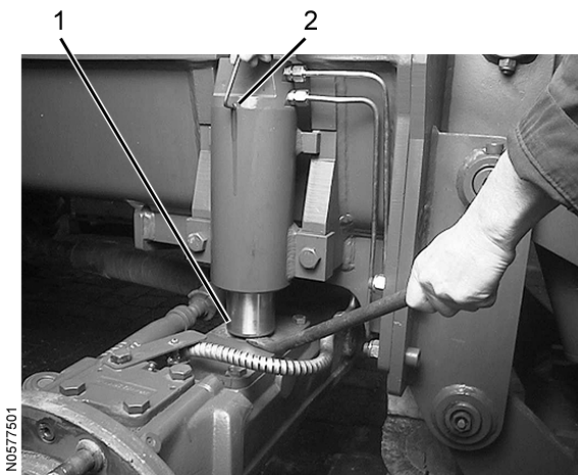


Figure 1
Oscillation lock cylinder

1. Piston
 2. Breather hole
4. Disconnect the hydraulic connections **1** and remove the bolts **2**.

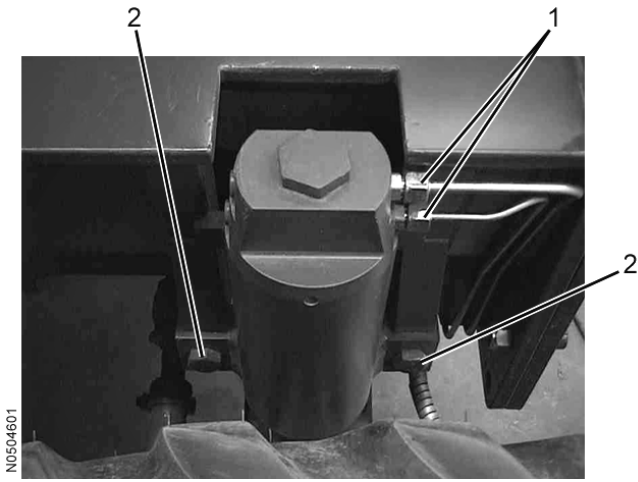


Figure 2
Oscillation lock cylinder

1. Hydraulic connections
2. Bolts

5. Lift away the oscillation lock cylinder.

Document Title: Oscillation lock cylinder, description	Function Group: 7631	Information Type: Service Information	Date: 2014/7/7 0
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Oscillation lock cylinder, description

The excavator is equipped with two oscillation lock cylinders. They are mounted above the front axle. The purpose of the oscillation lock cylinders is to safeguard good ground contact and tractive force when operating off-road in terrain. The oscillation lock cylinders can be locked in a fixed position. The excavator then has a rigid front and rear axle.

The oscillation lock cylinders have an oscillation play of $\pm 9^\circ$ if the excavator is not equipped with mudflaps. With mudflaps, the oscillation play is $\pm 7^\circ$.

Document Title: Oscillation lock cylinder, installation	Function Group: 7631	Information Type: Service Information	Date: 2014/7/7 0
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Oscillation lock cylinder, installation

Op nbr 7631-02

14 360 000 Vacuum pump

1. Lift the oscillation lock cylinder into place.
2. Fit the bolts **2** and fit the hydraulic connections **1**.

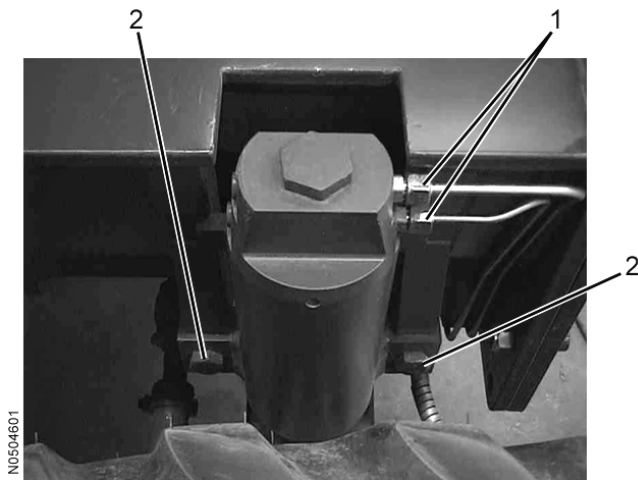


Figure 1
Oscillation lock cylinder

1. Hydraulic connections
 2. Bolts
3. Disconnect the vacuum pump, see *Vacuum pump, disconnection* in *Section 9*.
 4. Start the diesel engine.
 5. Check for leaks and repair if needed.

Document Title: Oscillation lock cylinder, installation of hydraulic lock	Function Group: 7631	Information Type: Service Information	Date: 2014/7/7 0
Profile:			

Oscillation lock cylinder, installation of hydraulic lock

Op nbr 91233-02

14 360 000 Vacuum pump

1. Fit the hydraulic lock, either by hand or by tapping carefully using a plastic hammer and a drift.
2. Fit the springs **1** (2 springs).



Figure 1
Oscillation lock cylinder

1. Springs
3. Fit the plug **2**.
Tightening torque: **100 Nm**.
4. Close the breather hole **1**.

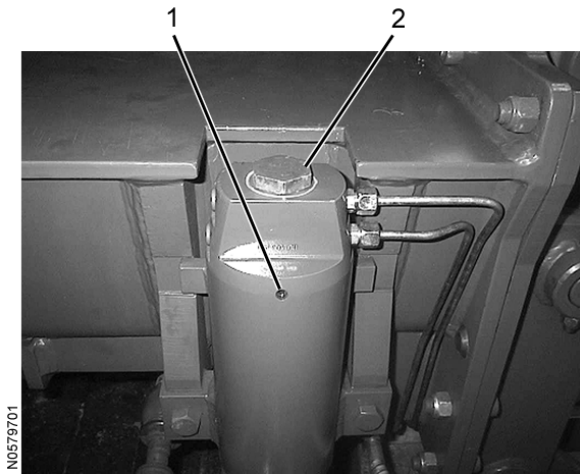


Figure 2
Oscillation lock cylinder

1. Breather hole
 2. Plug
-
5. Disconnect the vacuum pump, see *Vacuum pump, disconnection* in *Section 9*.
 6. Start the diesel engine.
 7. Check for leaks and repair if needed.

Document Title: Oscillation lock cylinder, releasing for towing	Function Group: 7631	Information Type: Service Information	Date: 2014/7/7 0
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Oscillation lock cylinder, releasing for towing

Op nbr 91233-10

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1. Turn off the battery disconnecter.
2. Remove the bolt **1**.
3. Turn the release lever **2** from position "EIN" (engaged) to position "AUS" (released).
4. Fit the bolt in the new position.

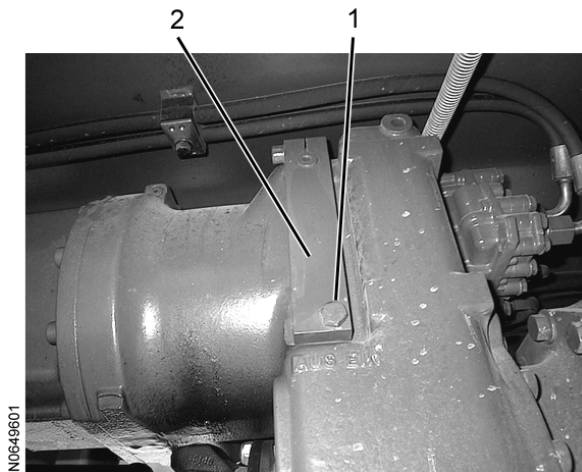


Figure 1
Travel gearbox

1. Bolt
 2. Release lever
5. Place a container under one of the oscillation lock cylinders to collect any oil spills.
 6. Remove the plug **1**.



Figure 2
Oscillation lock cylinder

1. Plug

7. Remove the springs **1** (2 springs). Store the springs in a clean plastic bag or similar.

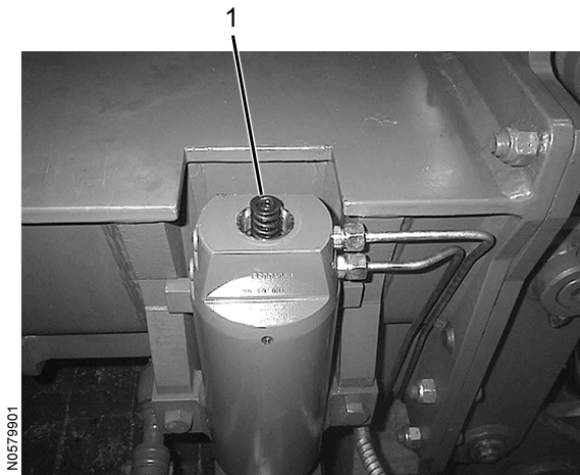


Figure 3
Oscillation lock cylinder

1. Springs

8. Fit the plug **1**.
Tightening torque: **100 Nm** .



Figure 4
Oscillation lock cylinder

1. Plug
9. Repeat steps **5 - 8** for the other oscillation lock cylinder.
10. Tow the machine, see *Operator's Manual*.



After towing, restore the oscillation lock cylinders to normal operating condition.

Document Title: Oscillation lock cylinder, removal of hydraulic lock	Function Group: 7631	Information Type: Service Information	Date: 2014/7/7 0
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Oscillation lock cylinder, removal of hydraulic lock

Op nbr 91233-01

14 360 000 Vacuum pump

CAUTION

Plug all pipes and connections when they have been disconnected.

1. Connect the vacuum pump, see *Vacuum pump, connection* in *Section 9*.
2. Open the breather hole **1**.
3. Remove the plug **2**.

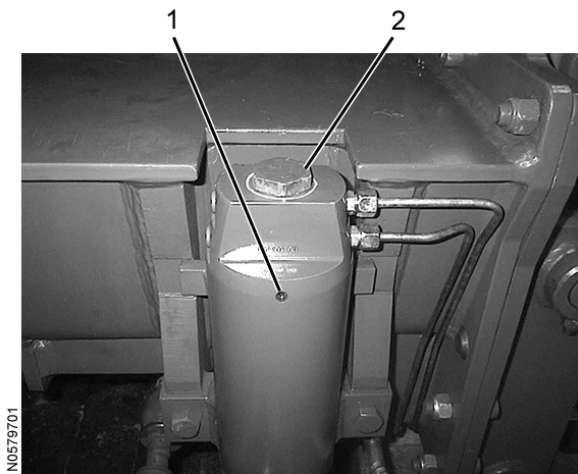


Figure 1
Oscillation lock cylinder

1. Breather hole
 2. Plug
4. Remove the springs **1** (2 springs).

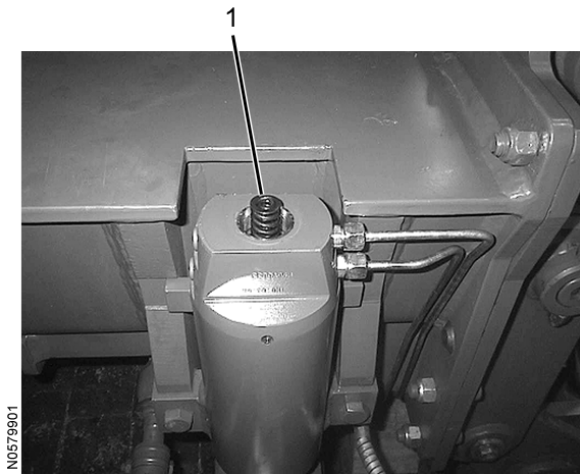


Figure 2
Oscillation lock cylinder

1. Springs
5. Remove the hydraulic lock **1**.
6. In case the hydraulic lock is stuck, move up the piston **2** carefully with, for example, a small pry bar.

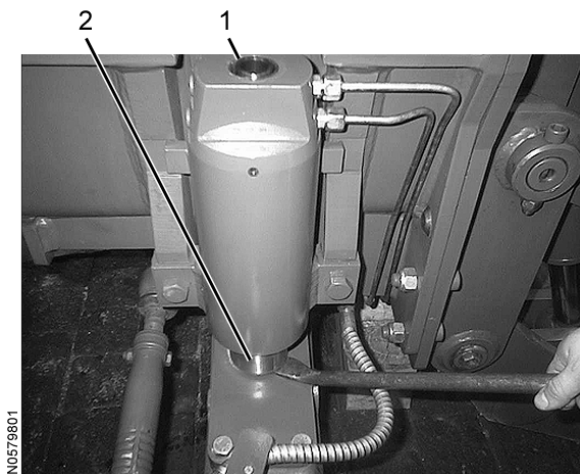


Figure 3
Oscillation lock cylinder

1. Hydraulic lock
2. Piston

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Document Title: Oscillation lock cylinder, replacement of seals	Function Group: 7631	Information Type: Service Information	Date: 2014/7/7 0
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Oscillation lock cylinder, replacement of seals

Op nbr 7631-03

14 360 000 Vacuum pump



Plug all pipes and connections when they have been disconnected.

1. Remove the hydraulic lock according to *Oscillation lock cylinder, removal of hydraulic lock*.
2. Fit the plug **1** without tightening it.



Figure 1
Oscillation lock cylinder

1. Plug
3. Remove the oscillation lock cylinder according to *Oscillation lock cylinder, removal*.
4. Place the oscillation lock cylinder on a horizontal and level surface.
5. Plug the hydraulic connection **1**.
6. Press out the piston **3** by pressing grease or hydraulic oil in the hydraulic connection **2**.



Figure 2
Oscillation lock cylinder

1. Hydraulic connection
2. Hydraulic connection
3. Piston

7. Clean the oscillation lock cylinder from grease and oil.
8. Replace required seals, bushes and scrapers.

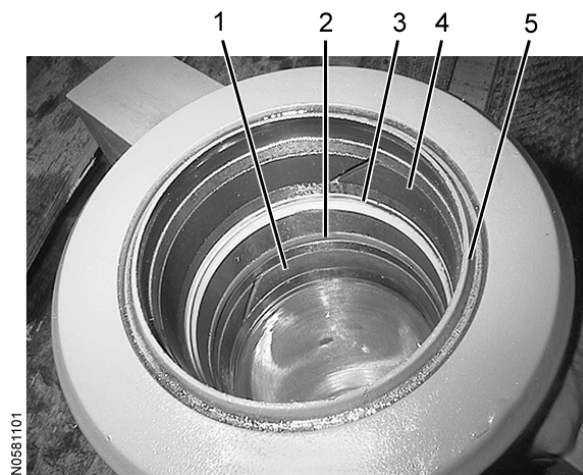


Figure 3
Inside of oscillation lock cylinder

1. Bush
2. Plastic ring
3. Seal
4. Bush
5. Scraper

9. Lubricate the inside of the oscillation lock cylinder with hydraulic oil.
10. Fit the piston.
11. Lift the oscillation lock cylinder into place.
12. Fit the bolts **2** and fit the hydraulic connections **1**.