

Document Title: Counterweight, installation	Function Group: 716	Information Type: Service Information	Date: 2015/5/4 0
Profile:			

Counterweight, installation

Op nbr 716-02

[Lifting tool Art. no. 14 360 011](#)

[Impact box wrench Art. no. 14 360 012](#)

[Sleeve Art. no. 14 360 013](#)

Service Manual part 1



Allow the engine and exhaust pipe to cool before starting work in the engine compartment to prevent injuries.

The counterweight weighs 6 400 kg, keep the lifting tool tensioned so that the counterweight cannot fall when the screws are removed.

Make sure the counterweight is standing on a firm and level surface before removing the lifting tool. Prop up the counterweight carefully so that it cannot fall over.

1. Park the machine in service position **A**, [Invalid linktarget] .
2. Fit a lifting eyebolt **1** on the bottom of the counterweight.
3. Hook the strop **3**, see [Invalid linktarget] , between the lifting eyebolt and the lift link **2**. Adjust the lift link **2** so that it is attached to the eighth link counting from the top eye.

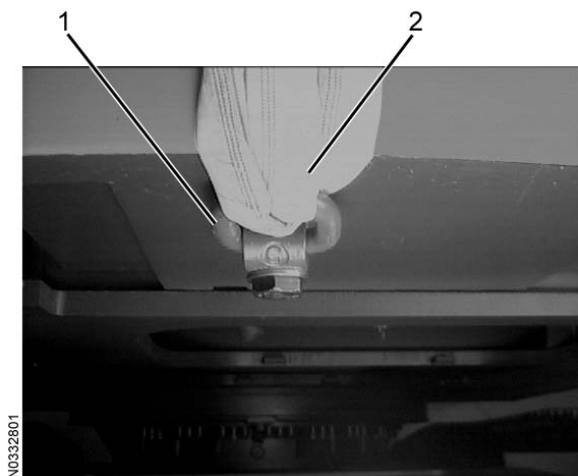


Figure 1
Preparations for lift

1. Lifting eyebolt

2. Lifting strop

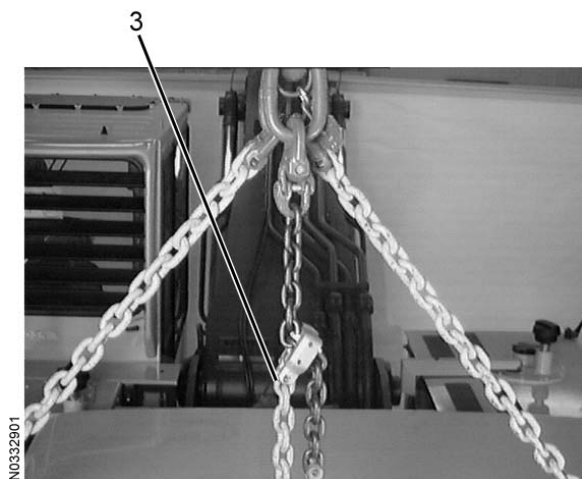


Figure 2
Preparations for lift

1. –
2. –
3. Lift link

4. Fit strops in the counterweight's upper fastening points. Use protective pads **1** so the strops are not damaged.

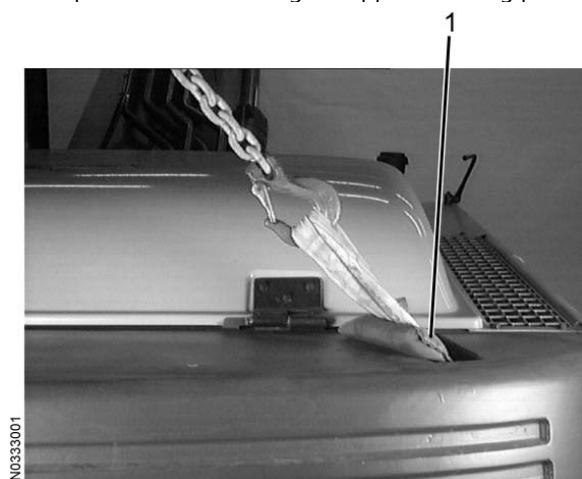


Figure 3
Upper fastening point

1. Protective pad

5. To prevent the strop from slipping and the Volvo emblem from getting damaged, use a block of wood or plastic as protection, as shown in [Invalid linktarget] .



Figure 4
Lifting tools fitted

6. Tighten stops and lift links with the lifting device.
7. Lift up the counterweight and put it carefully in place on the frame beams. Be careful not to damage the edge **1** or the cable **2**.

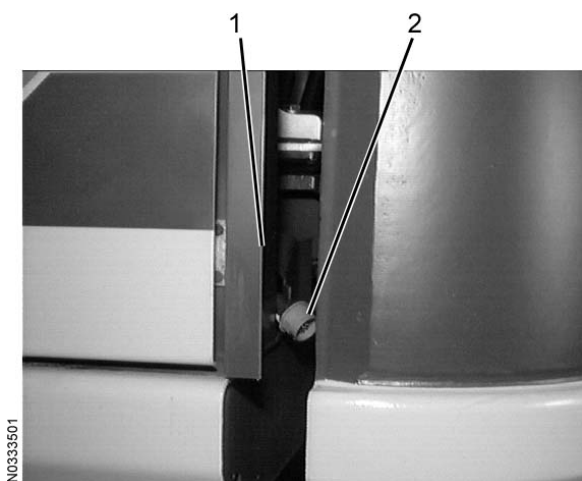


Figure 5
Lifting the counterweight in place

1. Edge
2. Cable

8. Lower the counterweight and adjust its position with a crowbar.
9. Fit new screws on the bottom of the counterweight. Be careful with the screw threads. **Tightening torque 3 200 Nm.**



Figure 6

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Bottom of counterweight

If a torque wrench is not available, tighten the screws as described below.

10. Tighten the screws to about 100 Nm (pre-tightening).
11. Tighten the screws another 120° with the aid of the impact box wrench and the sleeve. (The angle 120° is equivalent to two edges on the screw head.)

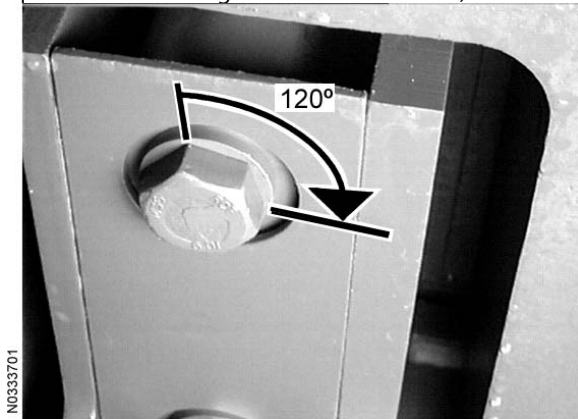


Figure 7
Angle tightening of screw

12. Remove lift links, strops and lifting eyebolts.
13. Fit the exhaust pipe **2** and the clamp **1**.

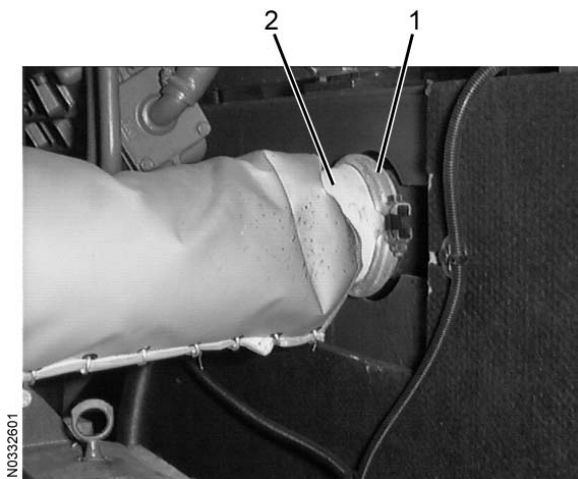


Figure 8
Engine compartment

1. Pipe
2. Clamp

14. Fit the hose and the clamp **1**.

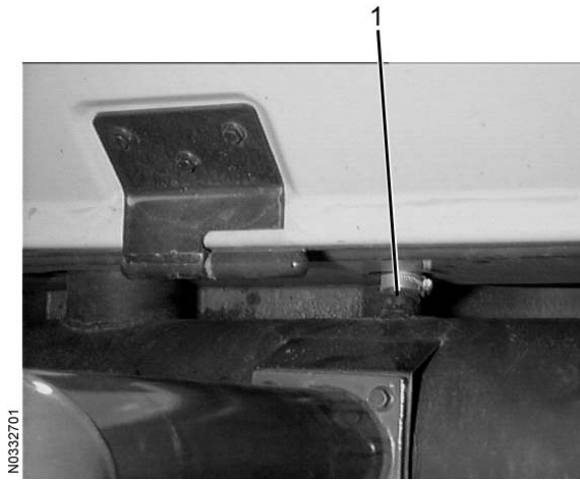


Figure 9
Hose

1. Clamp

15. Put together the connector **1** for the power supply to the tail lights.

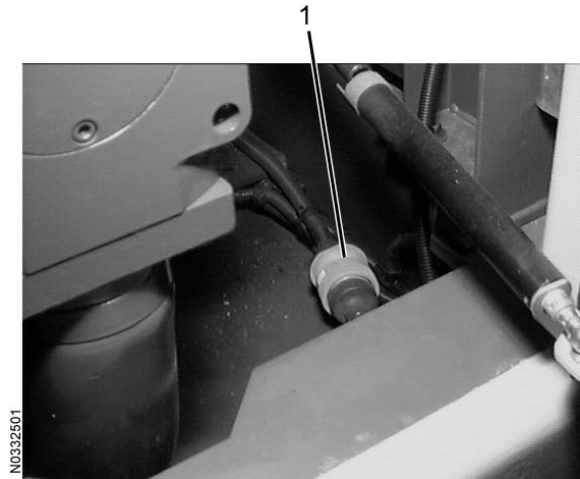


Figure 10
Connector (bayonet mount)

1. Connector

16. Close the door to the hydraulic pumps and the service door above the engine.

Document Title: Counterweight, removal	Function Group: 716	Information Type: Service Information	Date: 2015/5/4 0
Profile:			

Counterweight, removal

Op nbr 716-01

[Lifting tool Art. no. 14 360 011](#)

[Impact box wrench Art. no. 14 360 012](#)

[Sleeve Art. no. 14 360 013](#)

Service Manual part 1



Allow the engine and exhaust pipe to cool before starting work in the engine compartment to prevent injuries.

The counterweight weighs 6 400 kg, keep the lifting tool tensioned so that the counterweight cannot fall when the screws are removed.

Make sure the counterweight is standing on a firm and level surface before removing the lifting tool. Prop up the counterweight carefully so that it cannot fall over.

1. Park the machine in service position A, [Invalid linktarget] .
2. Open the service door above the engine and the door for the hydraulic pumps.
3. Pull apart the connector **1** for power supply to the tail lights on the counterweight and the machine.

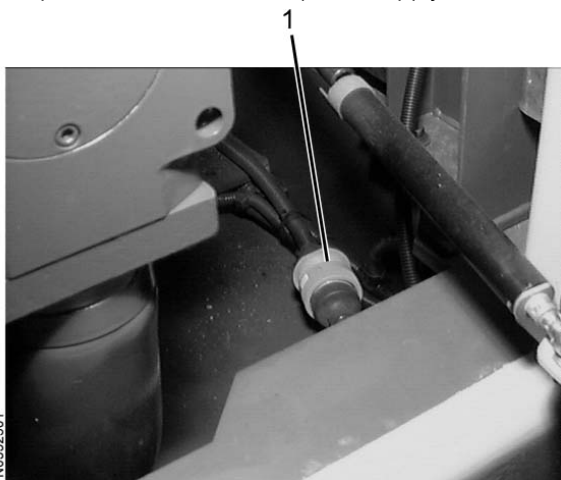


Figure 1
Connector (bayonet mount)

1. Connector

4. Remove the pipe clamp **1** and separate the exhaust pipe **2**.

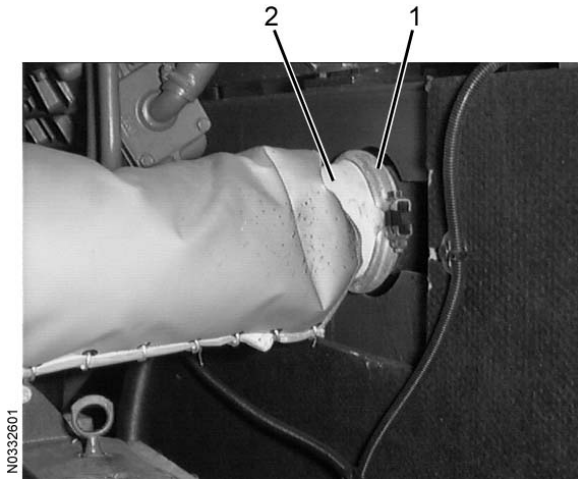


Figure 2
Engine compartment

1. Pipe clamp
2. Exhaust pipe

5. Undo the hose clamp **1** and pull the hose away from the pipe from inside the engine compartment.

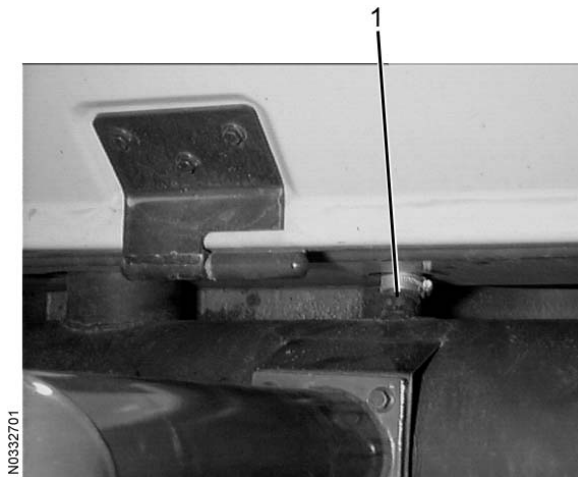


Figure 3
Hose

1. Hose clamp

6. Hang up the lifting tool in a lifting device.
7. Close the engine access door.
8. Fit a lifting eyebolt **1** on the bottom of the counterweight.
9. Hook in the strop **3**, see [Invalid linktarget] , between the lifting eyebolt and the lift link **2**. Adjust the lift link **2** so that it is attached to the eighth link counting from the top eye.

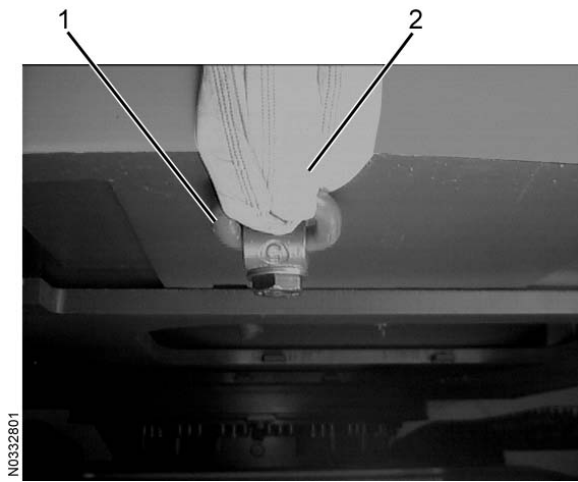


Figure 4
Preparations for lift

1. Lifting eyebolt
2. Lifting strop

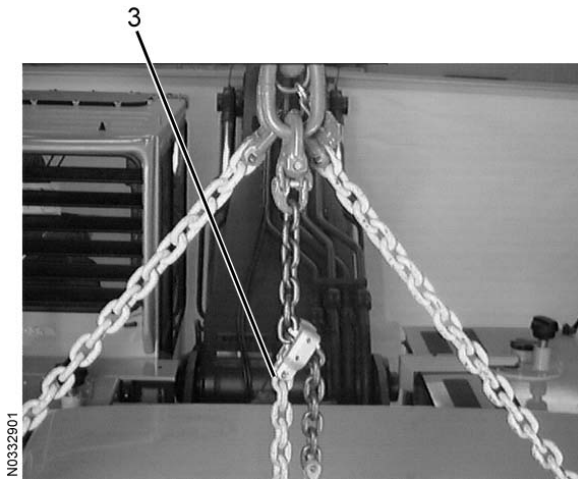


Figure 5
Preparations for lift

1. -
2. -
3. Lift link

10. Fit strops in the counterweight's upper fastening points. Use protective pads **1** so the strops are not damaged.

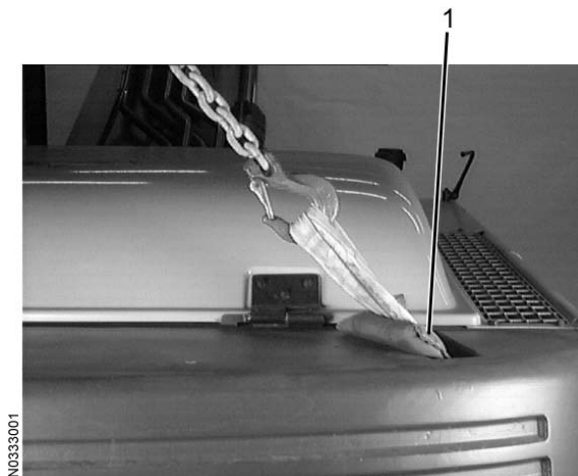


Figure 6
Upper fastening point

1. Protective pad
11. To prevent the strop from slipping and the Volvo emblem from getting damaged, use a block of wood or plastic as protection, as shown in [Invalid linktarget] .



Figure 7
Lifting tools fitted

12. Tighten the strops and the lift links with the lifting device.
13. Remove the screws **1** on the bottom of the counterweight.



Figure 8
Bottom of counterweight

1. Screws (4)
14. Lift up the counterweight and move it carefully backward from the frame beams.



Figure 9
Ready for lift

15. Place the counterweight on blocks so the eye in the lower fastening point will not get damaged.



Figure 10
Counterweight lifted away

Document Title: Undercarriage, description	Function Group: 7181	Information Type: Service Information	Date: 2015/5/4 0
Profile:			

Undercarriage, description

Each track is driven by a hydraulic motor of the axial piston type. Between the drive sprocket and the motor is a planetary gearbox. The track brakes are of the multi-disc type. The brakes are applied by spring force and released hydraulically by a reduced working pressure.

The frame is all-welded and consists of two track frames and a mid-section with four horizontal beams in the form of an "x". This provides a natural flow of forces from idler to track frame to mid-section and up into the turret.

The superstructure is carried in the undercarriage by a ball-bearing ring. The ball-bearing ring lies in an oil bath and therefore does not require lubrication.

Document Title: Idler, installation	Function Group: 771	Information Type: Service Information	Date: 2015/5/4 0
Profile:			

Idler, installation

Op nbr 7751-02

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1. Clean the slide rails as well as the guideway **2** in the undercarriage.
2. Grease the guideway **1** on both the top and bottom sides to facilitate installation.
3. Put a lift link around the slide rail **1** on both sides of the idler. Connect the lift link to a lifting device.
4. Lift the idler into position.

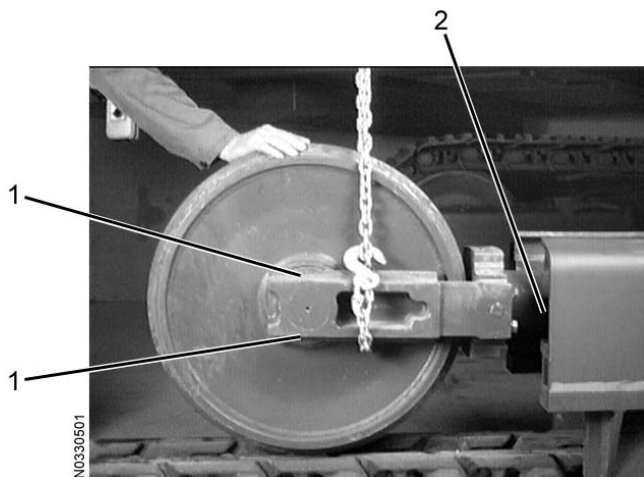
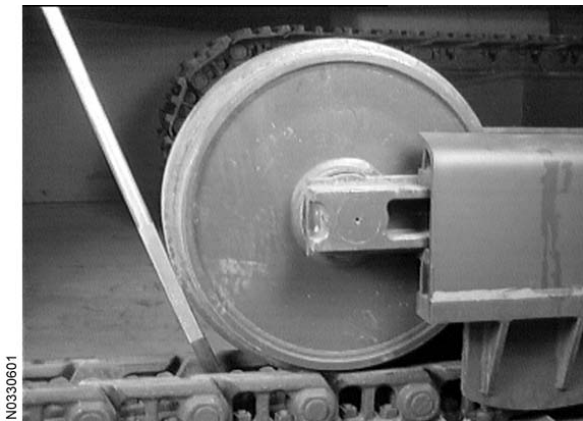


Figure 1
Installation

1. Slide rail (top and bottom sides)
 2. Guideways in undercarriage
5. Remove the lift link
 6. Push the idler into place with the aid of a crowbar.



N0330601

Figure 2
Installation

Document Title: Idler, removal	Function Group: 771	Information Type: Service Information	Date: 2015/5/4 0
Profile:			

Idler, removal

Op nbr 7751-01

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Park the machine on a firm, level surface with room to unroll the tracks.

1. Remove the tracks, [Invalid linktarget] .



Figure 1
Track removed

2. Press the idler **1** out of the track frame with the aid of a crowbar **2**.

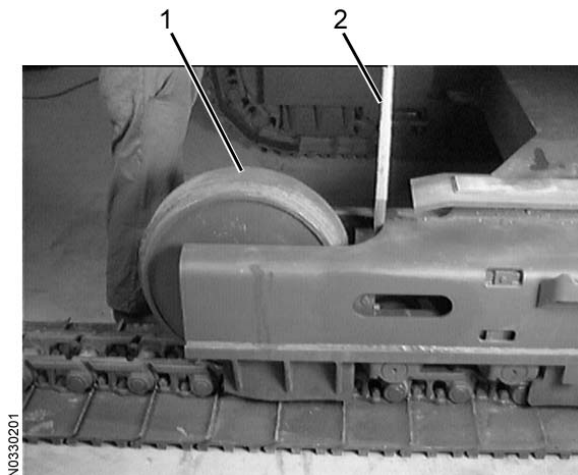


Figure 2
Removal of idler

1. Idler
2. Crowbar

! WARNING

Do not press out the idler too far, just far enough to get a lift link around the ends of the axle.

3. Connect a lift link **1** around the slide rail **2** on both sides of the idler. Attach the lift link to a lifting device.

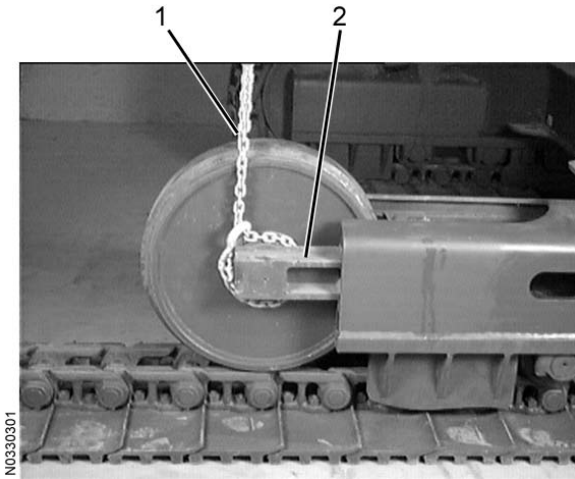


Figure 3
Ready for lift

1. Lift link
2. Slide rail

! WARNING

Heavy lift, the idler with guideways weighs 260 kg.

4. Lift away the idler and place it on blocks.



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Document Title: Drive sprocket, installation	Function Group: 7752	Information Type: Service Information	Date: 2015/5/4 0
Profile:			

Drive sprocket, installation

Op nbr 7752-02

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1. Put a screw in the uppermost hole on the drive sprocket, see [Invalid linktarget] .
2. Fasten a lifting strop to the screw and connect the strop to a lifting device.
3. Lift the drive sprocket into place.

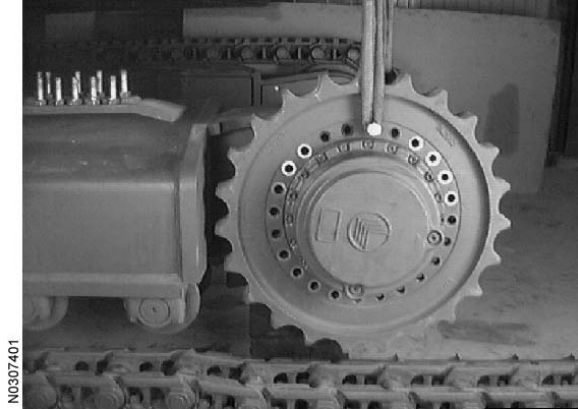


Figure 1
Drive sprocket is lifted into place.

4. Fit the screws **1**. **Tightening torque 370 Nm.**

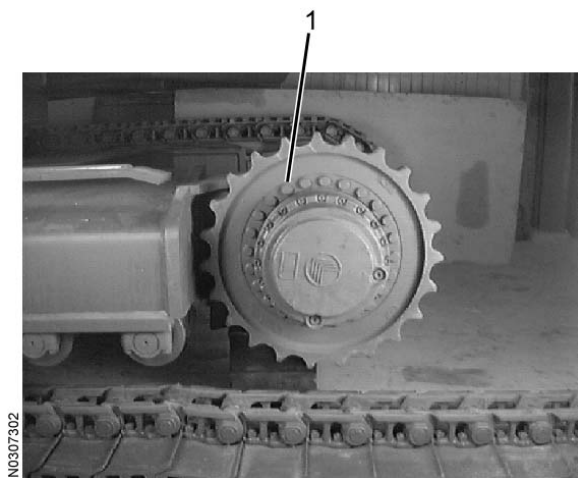


Figure 2
Screws

1. Screws (24)

5. Press up the undercarriage with the aid of the digging equipment.
6. Remove the wooden blocks.
7. Lower the undercarriage onto the tracks.
8. Fit the tracks, [\[Invalid linktarget\]](#) .

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