

Document Title: <b>Front axle, installing</b>	Function Group: <b>461</b>	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:			

## Front axle, installing

### Op nbr 46103

[999 3831 Support](#)

[999 3742 Socket](#)

Sling 2 m (6.5 ft), 2 slings.

Sling 6 m (19 ft), 2 slings.

Torque amplifier

1. Position the axle correctly under the machine.  
Connect a lifting device.  
Axle weight: **approx. 1500 kg (3308 lbs)**
2. Lift up the axle with the lifting device, and secure the axle with a hydraulic jack to prevent it from turning during the lift.  
Fit the attaching bolts.  
Tightening torque: **804 Nm (593 lbf ft)**
3. Fit the propeller shaft to the front axle.  
Fit the attaching bolts.  
Tightening torque: **50 Nm (37 lbf ft)**
4. Fit the electrical cabling and the hoses to the differential lock and brake as well as the breather hose for the axle. Fit the cabling for the temperature sensor.
5. Fill oil in the front axle.  
Oil capacity: **approx. 36 litres (new axle), 33 litres (at oil change )**
6. Fit the front wheels.  
Tightening torque: **600 Nm (443 lbf ft)**  
Fit the mudguards.
7. Remove the support under the boom, the axle stands and the steering joint lock.
8. Bleed the front brake circuit, see *Section 5, Brake system, bleeding*.

Document Title: <b>Front axle, removing</b>	Function Group: <b>461</b>	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:			

## Front axle, removing

### Op nbr 46102

[999 3831 Support](#)

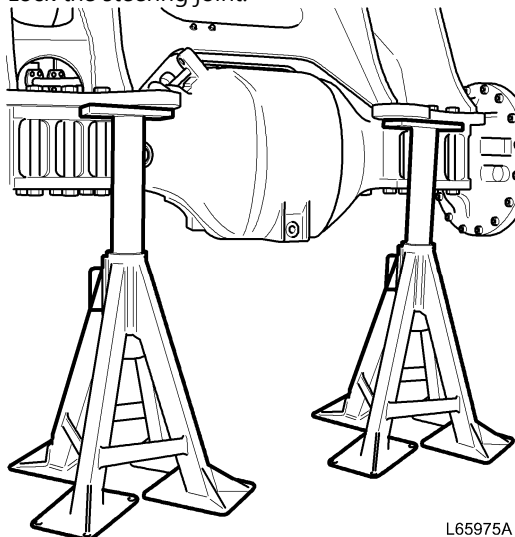
[999 3742 Socket](#)

Sling 2 m (6.5 ft), 2 slings.

Sling 6 m (19 ft), 2 slings.

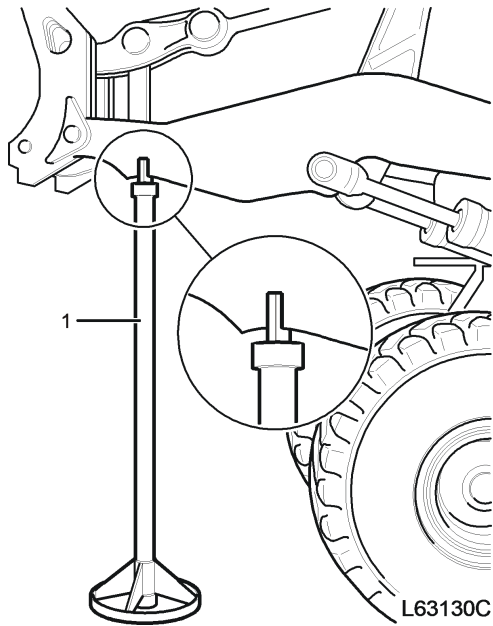
Torque amplifier

1. Lock the steering joint.



**Figure 1**

2. Lift the front wheels using the lift arms.  
Position axle stands under the tie-down eyes in the front frame.
3. Run up the lift arms and position the support (999 3831) under the raised boom, see [Invalid linktarget] .  
Release pressure and put the bucket in the empty position.



**Figure 2**

1. 999 3831 Support
4. Remove the front mudguards and the front wheels.
5. Drain the axle oil.  
Oil capacity: **approx. 33 litres (8.7 US gal)**
6. Tie up the propeller shaft and remove the drive flange attaching bolts at the front axle.
7. Release the pressure in the brake system by depressing the brake pedal repeatedly (30–40 times).
8. Fully depress the brake pedal and block it in that position with a suitable tool. When the brake pedal is blocked in the depressed position, the hydraulic tank oil is prevented from running out to respective brake caliper.  
**NOTE!**  
The brake pedal must remain blocked until the front axle has been installed again.
9. Remove all electrical cabling and hoses for the differential lock and brake as well as the breather hose for the axle. Use plastic plugs to plug all hoses. Remove the cabling to the temperature sensor.
10. Connect a lifting device to the front axle and remove the attaching bolts.  
Front axle weight: **approx. 1500 kg (3308 lbs)**
11. Lower the axle on two pallets, each pallet standing on a pallet forklift. Secure the axle (with a hydraulic jack or the like) to prevent it from falling over.  
Pull out the axle.

Document Title: <b>Specifications, L90D, capacities</b>	Function Group: <b>461</b>	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:			

## **Specifications, L90D, capacities**

Front axle, when changing oil	33 l (8.7 US gal)
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Document Title: <b>Specifications, L120D, capacities</b>	Function Group: <b>461</b>	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:			

## **Specifications, L120D, capacities**

Front axle, when changing oil	33 l (8.7 US gal)
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Document Title: <b>Specifications, weight</b>	<b>L90D, 461</b>	Function Group:	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:				

**Specifications, L90D, weight**

Front axle	1500 kg (3308 lbs)
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Document Title: <b>Specifications, weight</b>	<b>L90D, 461</b>	Function Group:	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:				

**Specifications, L90D, weight**

Front axle	1500 kg (3308 lbs)
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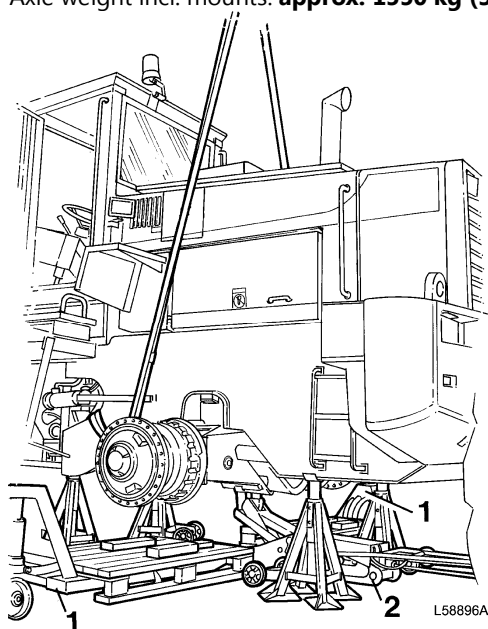
Document Title: <b>Rear axle, installing</b>	Function Group: <b>463</b>	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:			

## Rear axle, installing

Op nbr 46303

999 3742 Socket

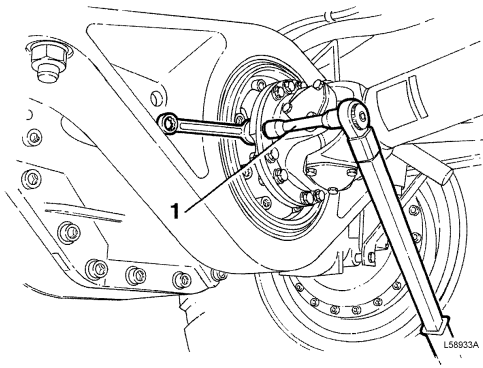
1. Position the axle correctly under the machine.  
Attach a hoist, see [Invalid linktarget] .  
Axle weight incl. mounts: **approx. 1550 kg (3418 lbs)**



**Figure 1**  
**Connection of lifting device**

2. Lift up the axle with the lifting device, and secure the axle with a hydraulic jack to prevent it from turning during the lift.  
Fit the attaching bolts.  
Tightening torque: **804 Nm (593 lbf ft)**
3. Fit the rear wheels.  
Tightening torque: **600 Nm (443 lbf ft)**
4. Fit the brake hose, cabling to the temperature sensor, lubricating oil pipes and the hose for the breather filter on the axle.
5. Connect the propeller shaft to the rear axle, see [Invalid linktarget] .  
Tightening torque: **57 Nm (42 lbf ft)**





**Figure 2**  
**Installing propeller shaft**

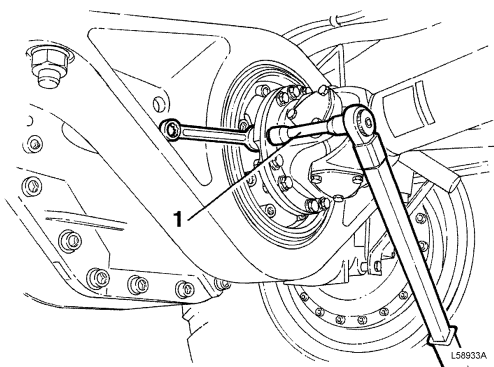
1. 999 3742
6. Grease the rear axle mounting.  
Remove the supports.
7. Bleed the rear brake circuit, see *Section 5, Brake system, bleeding*.

Document Title: <b>Rear axle, removing</b>	Function Group: <b>463</b>	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:			

## Rear axle, removing

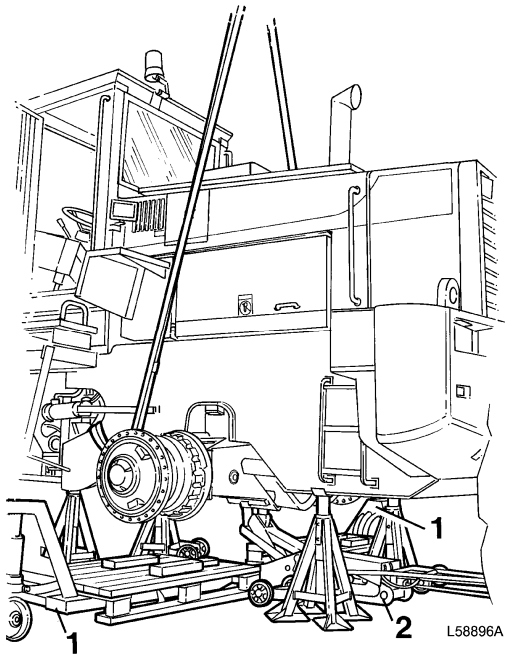
Op nbr 46302

[999 3742 Socket](#)



**Figure 1**  
**Removing propeller shaft**

1. 999 3742
  1. Raise the rear wheels and position supports under the rear frame.
  2. Remove the propeller shaft from the final drive.
  3. Release the pressure in the brake system by depressing the brake pedal repeatedly (30–40 times).
  4. Fully depress the brake pedal and block it in that position with a suitable tool. When the brake pedal is blocked in the depressed position, the hydraulic tank oil is prevented from running out to respective brake caliper.  
**NOTE!**  
The brake pedal must remain blocked until the rear axle has been installed again.
  5. Remove the lubricating oil pipes from the axle connections, also remove the brake hose from the brake pipe on the axle. Use protective plugs.
  6. Remove the cabling from the temperature sensor on the axle as well as the hose from the breather filter.
  7. Remove the rear wheels.
  8. Attach a lifting device to the axle, see [Invalid linktarget] .  
Position a hydraulic jack under the axle.  
Axle weight incl. mounts: **approx. 1550 kg (3418 lbs)**  
Remove the bolts between the axle mount and the frame.



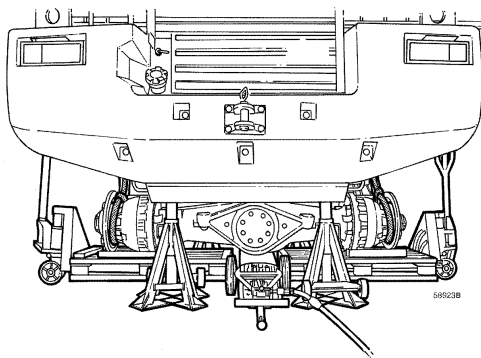
**Figure 2**  
**Lowering of rear axle**

1. Pallet forklift
2. Jack securing the axle

9. Secure the axle with a jack underneath in order to prevent the axle from falling over, see [Invalid linktarget] . Lower the axle on two pallet forklifts with pallets. Pull out the axle.

**NOTE!**

Make sure that the front axle mount does not slide off the axle.



**Figure 3**

Document Title: <b>Specifications, capacities</b>	Function Group: <b>463</b>	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:			

## **Specifications, capacities**

Rear axle	41 l (10.8 US gal)
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Document Title: <b>Specifications, weight</b>	Function Group: <b>463</b>	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:			

## Specifications, weight

Rear axle	1500 kg (3308 lbs)
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Document Title: <b>Differential lock, adjusting</b>	Function Group: <b>468</b>	Information Type: <b>Service Information</b>	Date: <b>2014/5/4 0</b>
Profile:			

## Differential lock, adjusting

Op nbr 46805

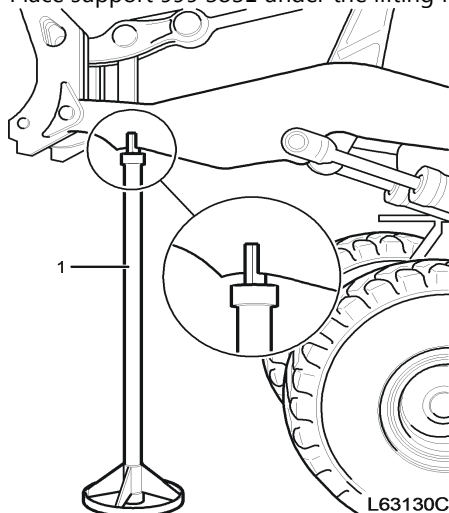
[999 3831 Support](#)

[999 3806 Adjusting plate](#)

[11666140 Multimeter](#)

1. Place axle stands under the front axle so that both front wheels can rotate freely over the ground.

2. Place support 999 3831 under the lifting frame.



**Figure 1**  
**Securing the lifting frame**

1. 999 3831
3. Remove the guard over the differential contact.
4. Remove the differential cover over the diaphragm sleeve.
5. Remove the lock screw in the diaphragm sleeve.
6. Fit an M10 bolt with jam nut in the diaphragm sleeve. See [Invalid linktarget] .

**Thank you very much for reading.**

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**Instructions, Functional**

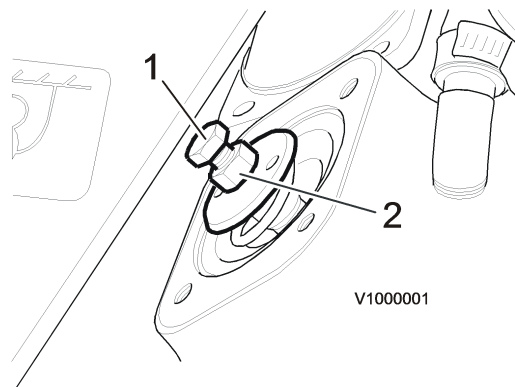
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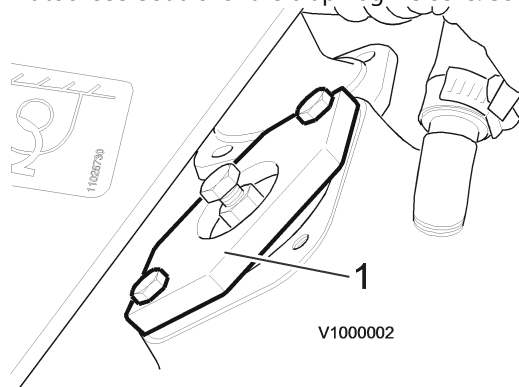
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**Figure 2**  
**M10 bolt with jam nut**

1. M10 bolt
2. Jam nut

7. Fit tool 999 3806 over the diaphragm sleeve. See illustration.



**Figure 3**

1. 999 3806

8. Check that the drive flange lies tooth top to tooth top by rotating a gear. A ticking should be heard. Adjust as needed. Screw the diaphragm sleeve anticlockwise to move the drive flange closer or clockwise to move it farther away.
9. Remove the M10 bolt with jam nut and fit the lock screw in the diaphragm sleeve **without changing the setting**.
10. Adjust the sensor so that it comes to its break position. Use tool 11666140 or the like to check this. Then screw the sensor **anticlockwise 3/4 turn** to obtain the right setting.
11. Remove tool 999 3806 and refit the differential cover.
12. Check the function.  
Activate the differential lock and make sure it is engaged securely (drive flanges meshed).  
Adjust the sensor so that it comes to its break position. Use tool 11666140 or the like to check this.  
Screw the sensor **clockwise 2 3/4 turn** to obtain the correct setting.



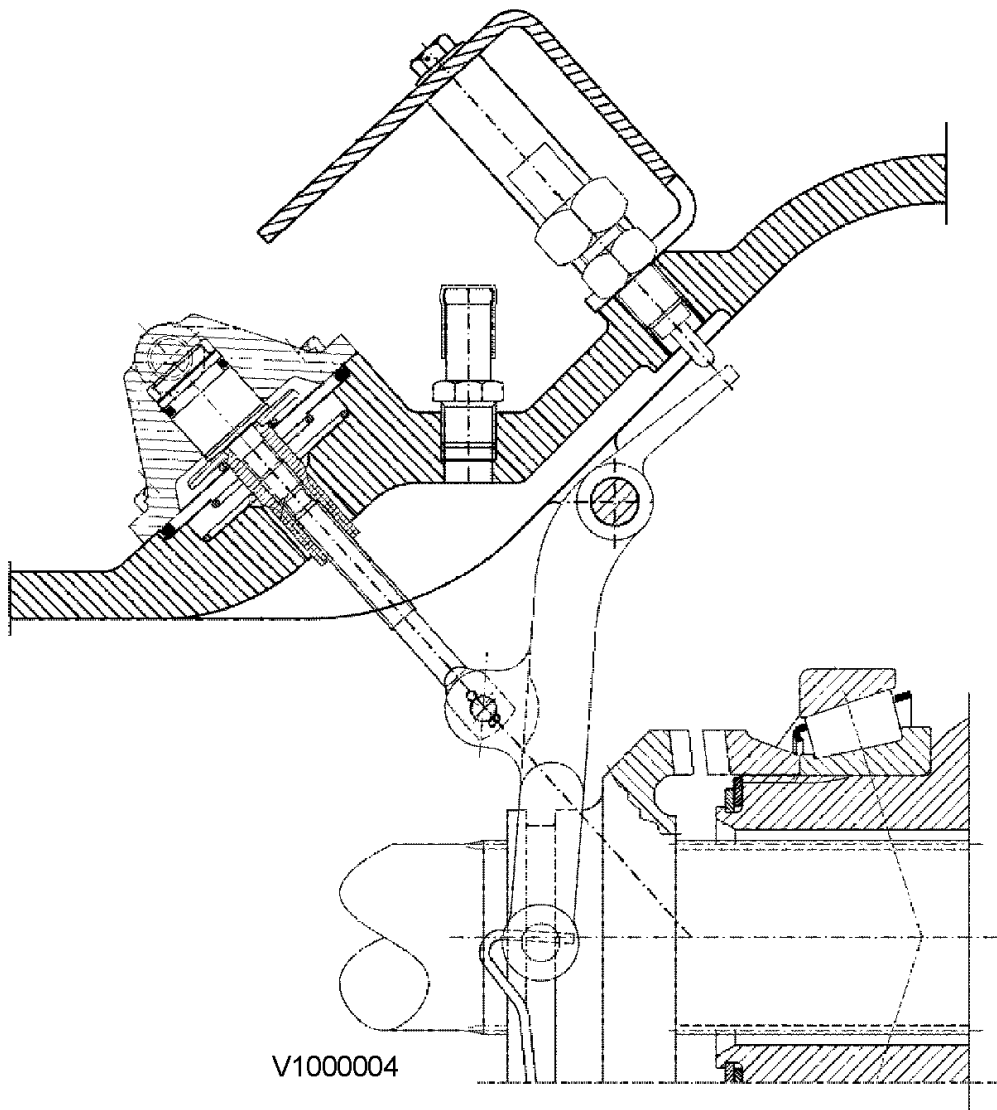


Figure 4

Differential lock sensor, adjusting (Differential cover fitted)