

**TUCANO 580 - 320**

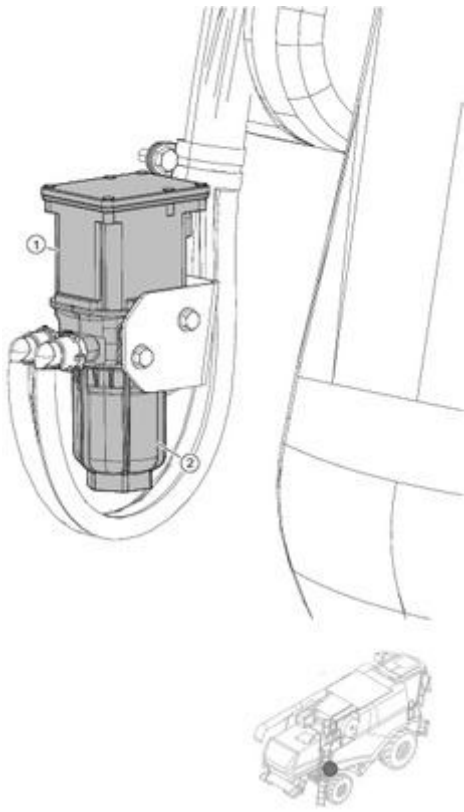
**Repair Manual**

**Genuine Repair Manual**

## Validity of manual

This manual applies to the following machine / front attachment:

Machine	Type	Vehicle identification number	
		from	to
TUCANO 580	C07	C0700011	–
TUCANO 580	C38	C3800011	–
TUCANO 570	C07	C0700011	–
TUCANO 570	C38	C3800011	–
TUCANO 450	C05	C0500011	–
TUCANO 450	C30	C3000011	–
TUCANO 440	C05	C0500011	–
TUCANO 440	C30	C3000011	–
TUCANO 430	C04	83800011	–
TUCANO 430	C28	C2800011	–
TUCANO 420	C04	C0400011	–
TUCANO 340	C03	C0300011	–
TUCANO 340	C26	C2600011	–
TUCANO 320	C02	C0200011	–
TUCANO 320	C24	C2400011	–



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	Value	CCN	Remark / designation	
1		M047 M25-MB	Urea pump (M047 / M25-MB)	
2			Urea solution filter  See the Operator's Manual of the machine in question.	
Tightening torques not specified, see "Introduction / Tightening torques" chapter				

### Environment!

Lubricants, operating utilities and fuels escape into the environment.

Environmental pollution.

- ▶ Collect and store lubricants, operating utilities and fuels in suitable containers and ensure proper disposal.

### Removal

#### CAUTION

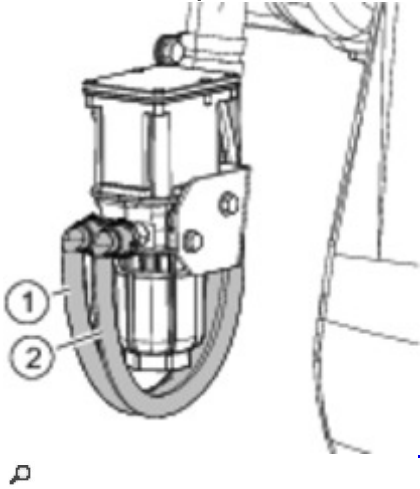
Contact with hot liquids.

Risk of burns.

- ▶ Release pressure on the system/wait for pressure to drop.
- ▶ Leave liquids to cool.
- ▶ Wear suitable protective clothing.

- ▶ Let the diesel engine cool down.
- ▶ Put the machine out of operation.
- ▶ Wait for at least 5 minutes after stopping the diesel engine.

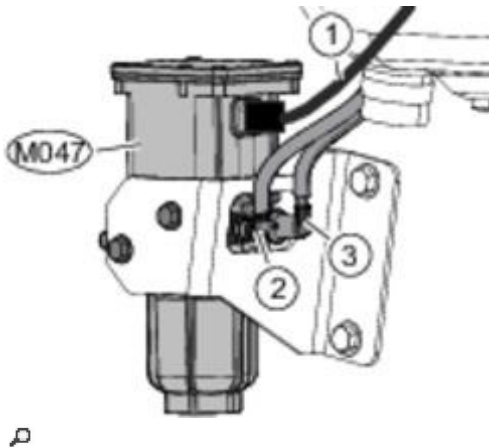
*The residual pressure in the system is relieved.*



Use special tool (I) (hose clamps).

Urea pump (M047 / M25-MB)

- ▶ Pinch off cooling water hoses (1) and (2) with special tool (I).
- ▶ Mark coolant hoses (1) and (2) unlock them at the connection and disconnect.
- ▶ Collect any escaping coolant and dispose of it properly.



Use special tool (I) (hose clamps).

Urea pump (M047 / M25-MB)

- ▶ Unlock and disconnect cable connector (1).
- ▶ Pinch off urea hoses (2) and (3) with special tool (I).
- ▶ Mark urea hoses (2) and (3) unlock them at the connection and disconnect.
- ▶ Collect any escaping urea solution and dispose of properly.
- ▶ Remove pump (M047).

## Installation

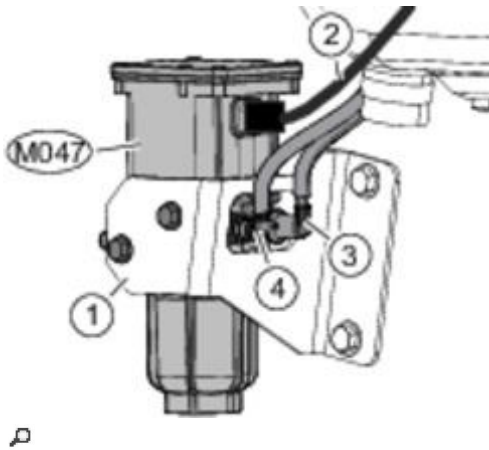
Observe the technical specifications!

Urea pump (M047 / M25-MB)**NOTICE**

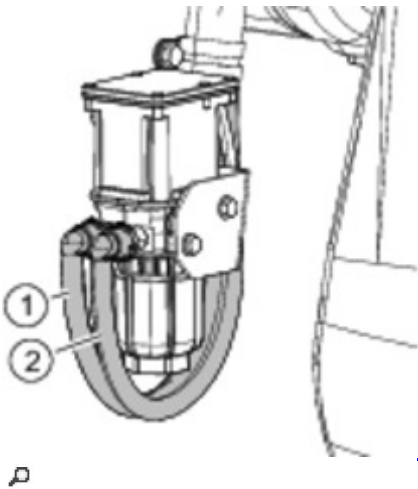
Foreign substances pollute the system

Damage to exhaust gas system.

- ▶ Keep foreign substances and residual quantities of diesel fuel out of this system.
- ▶ Increased cleanliness requirements during installation work.



- ▶ Install pump (M047) on bracket (1).
- ▶ Connect and lock cable connector (2).
- ▶ Connect and lock the urea hoses (3) and (4) to the connection according to the marks.



- ▶ Connect and lock the coolant hoses (1) and (2) to the connection according to the marks.
- ▶ Check for correct operation and that there are no leaks.
- ▶ Check the cooling water level.  
See the Operator's Manual of the machine in question.

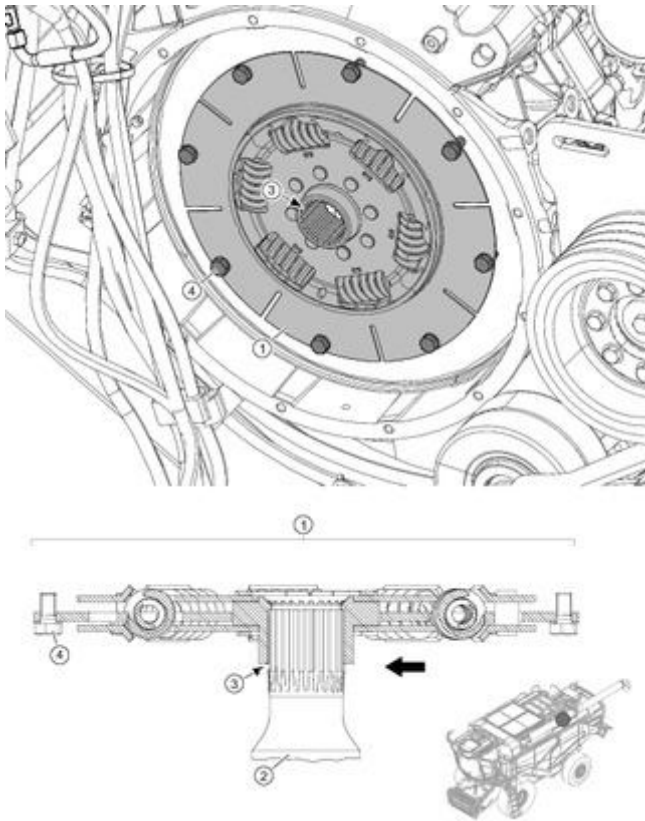
## Oscillation damper

### Work preparation

Operating utilities:

- ▶ Assembly paste:  
Anti-Seize - 00 0136 571 0

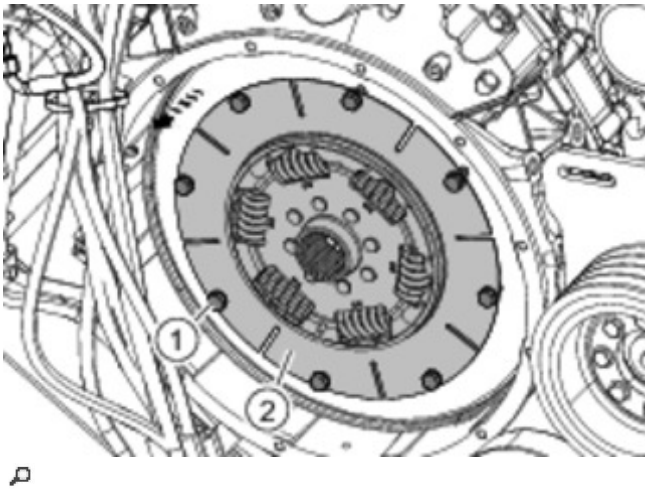
### Technical specifications



	Value	CCN	Remark / designation	
1			Oscillation damper (engine output removed)	
2			For engine output shaft see: Engine output	<a href="#">Engine output</a>
3			Coat external spline (3) with Anti-Seize. Caution! Install the extended side of the external oscillation damper spline <b>opposite</b> to the diesel engine.	<a href="#">Oscillation damper</a>
4	48,5 Nm			
Tightening torques not specified, see "Introduction / Tightening torques" chapter				

### Removal

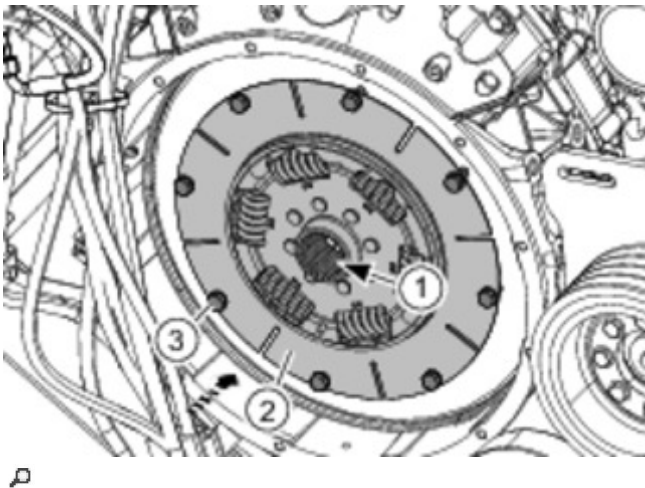
- ▶ Remove the engine output.  
[Engine output](#)



- ▶ Unscrew bolts (1).
- ▶ Remove the oscillation damper (2).

### Installation

- ▶ Observe the technical specifications:  
Oscillation damper



Coat external spline (1) with Anti-Seize.

#### Oscillation damper

- ▶ Insert oscillation damper (2) bolt it down with bolts (3) and **new** spring washer.  
Caution! Install the extended side of the external oscillation damper spline (1) **opposite** to the diesel engine.
- ▶ Install the engine output.  
Engine output
- ▶ Check for correct operation.

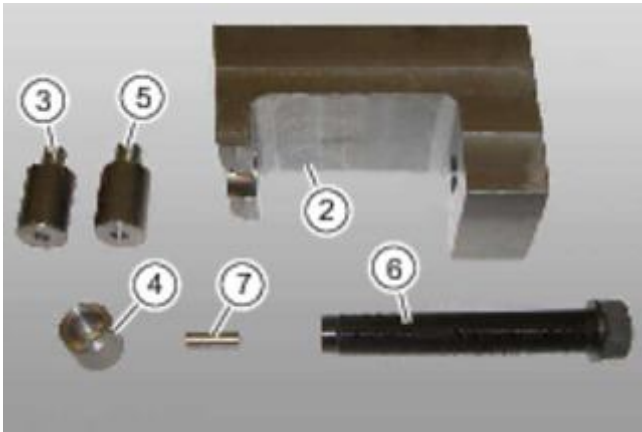
## Wheel bolt

### Work preparation

Operating utilities:

- ▶ Solid lubricant, for example:  
MOLYKOTE G-n Plus - 00 0177 571 0
- ▶ Assembly paste, for example:  
Anti-Seize - 00 0136 571 0

### Special tool

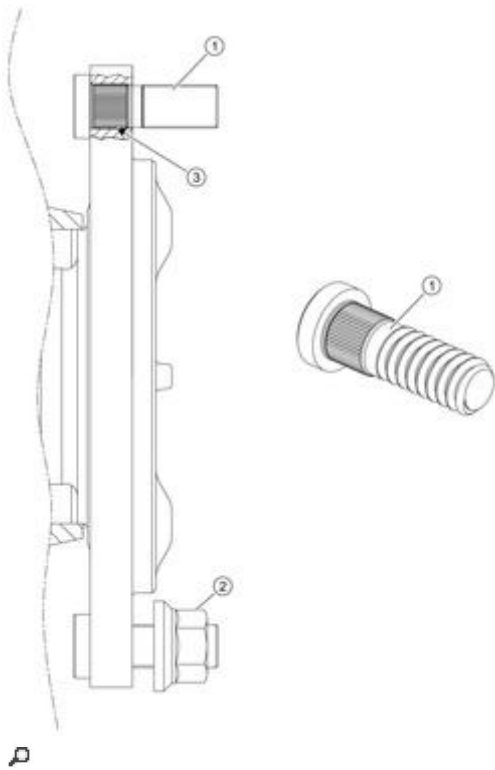


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	Special tool (I)	Pcs.
1	Installation tool kit 00 0181 861 0	
Consisting of:		
2	Puller bridge 00 0181 862 0	1
3	Adapter 00 0181 863 0	1
4	Adapter 00 0181 864 0	1
5	Adapter 00 0181 865 0	1
6	Threaded spindle 00 0181 801 1	1
7	Cylinder pin 00 0242 867 0	1

### Technical specifications



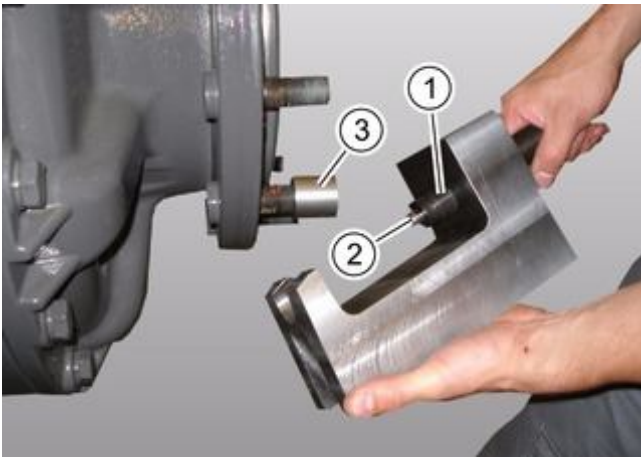


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	Value	CCN	Remark / designation	
1			Clean wheel bolts so they are free of grease, rust, burrs and are dry prior to installation.  Coat gearing of wheel bolts with Anti-Seize.	<u>Wheel bolt</u>
2	400 Nm		Pull in wheel bolt with wheel nut in two steps: <ul style="list-style-type: none"> <li>• Step 1: 400 Nm</li> <li>• For tightening torque stage 2 see the Operator's Manual of the machine in question.</li> </ul>	
3			Clean bore so it is free of grease, rust, burrs and is dry prior to installation.	
Tightening torques not specified, see "Introduction / Tightening torques" chapter				

## Removal

- ▶ Secure the machine with wheel chocks so it will not roll away. Ensure that the parking brake is **not** engaged.
- ▶ Put gear shift mechanism in neutral position.
- ▶ Jack up the machine and support it safely at the specified supporting point beneath the drive axle.
- ▶ Remove the drive wheel.  
See the Operator's Manual of the machine in question.

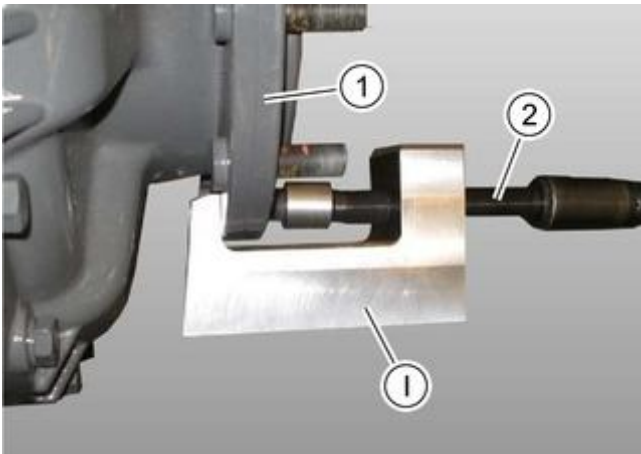


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Use special tool (I) (installation tool kit).

Wheel bolt

- ▶ Coat spindle (1) and pin (2) of special tool (I) with MOLYKOTE G-n plus.  
Wheel bolt
- ▶ Pre-assemble special tool (I) as shown in the picture.
- ▶ Put adapter (3) of special tool (I) on the wheel bolt.



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**NOTICE**

High axial forces are involved.

Damage of hand tools and machine components.

- ▶ Install the special tool precisely without tilting.
- ▶ Actuate the special tool only with a hand tool.
- ▶ **Never** use an impact wrench!

Use special tool (I) (installation tool kit).

Wheel bolt

- ▶ Install special tool (I).
  - ▶ Turn the wheel shaft (1) to do this if necessary.
  - ▶ Force out the wheel bolt by evenly rotating threaded spindle (2).

## Installation

### NOTICE

Wheel bolts damaged by incorrect storage or rough treatment.

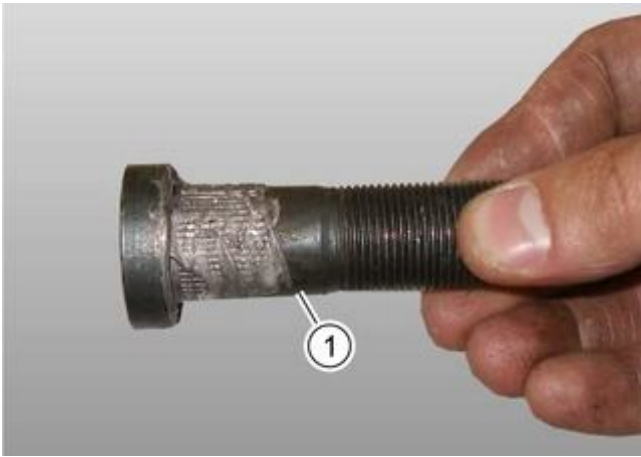
Damage of machine components.

- ▶ Check the wheel bolt threads and tooting prior to installation.
- ▶ Remove any existing burrs and rust.
- ▶ Use only flawless wheel bolts.

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Observe the technical specifications!

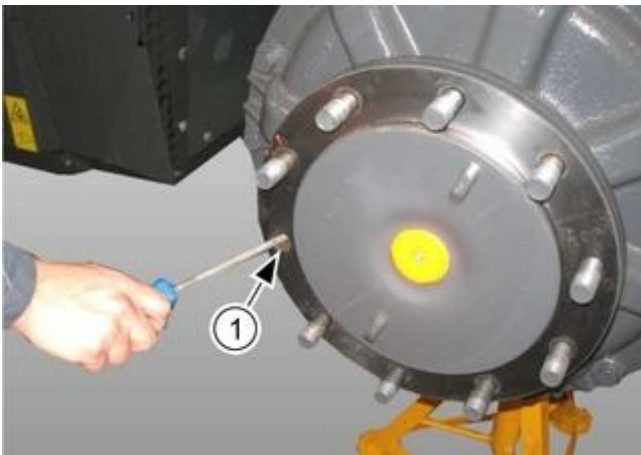
#### Wheel bolt



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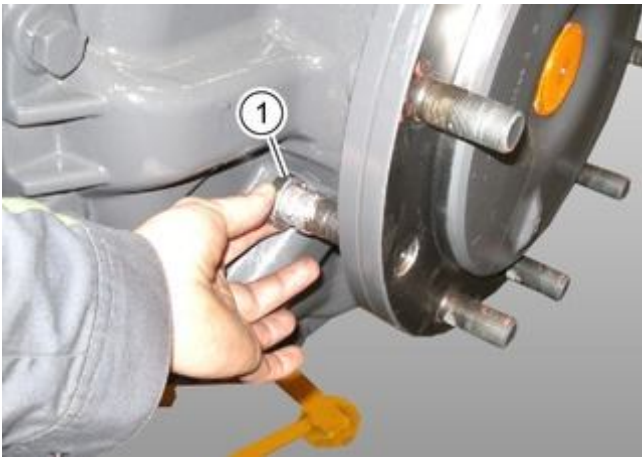
- ▶ Check wheel bolt (1) for damage and prepare them for installation.
- ▶ Coat gearing of wheel bolts (1) with Anti-Seize.

#### Wheel bolt



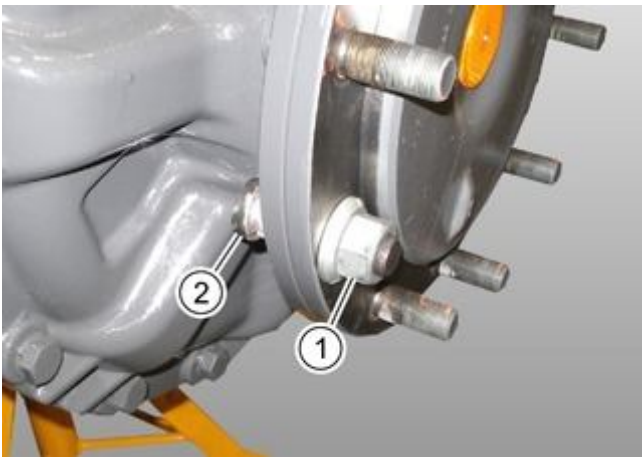
⤵

- ▶ Check the corresponding bore (1) for damage and prepare for installation.



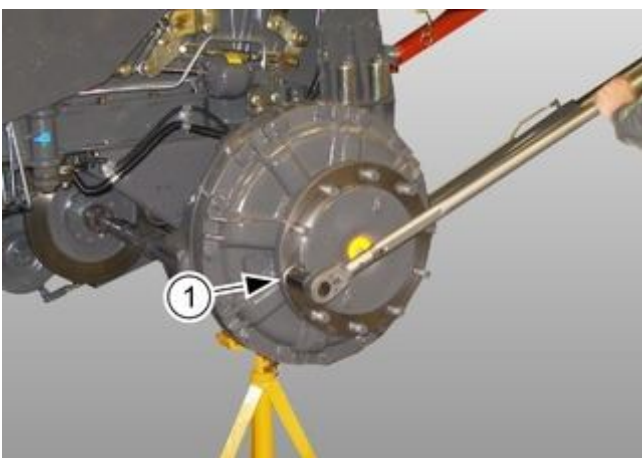
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- ▶ Insert wheel bolt (1).
  - ▶ Ensure that the external tothing of the wheel bolt engages with the existing tothing of the bore.
  - ▶ Turning the wheel bolt must **no longer** be possible.

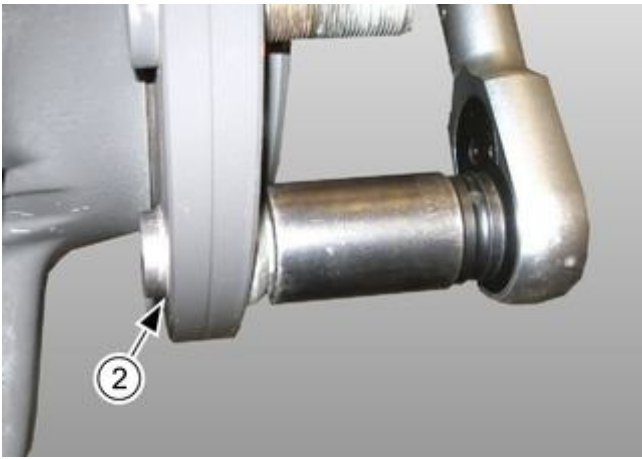


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- ▶ Remove any grease from thread of wheel nut (1) and screw it on the wheel bolt (2).
- ▶ Pull wheel nut (1) forward until wheel bolt (2) starts being pulled into the drilled hole.
  - ▶ *In case of considerable stiffness, the tothing of the wheel bolt must be newly inserted.*



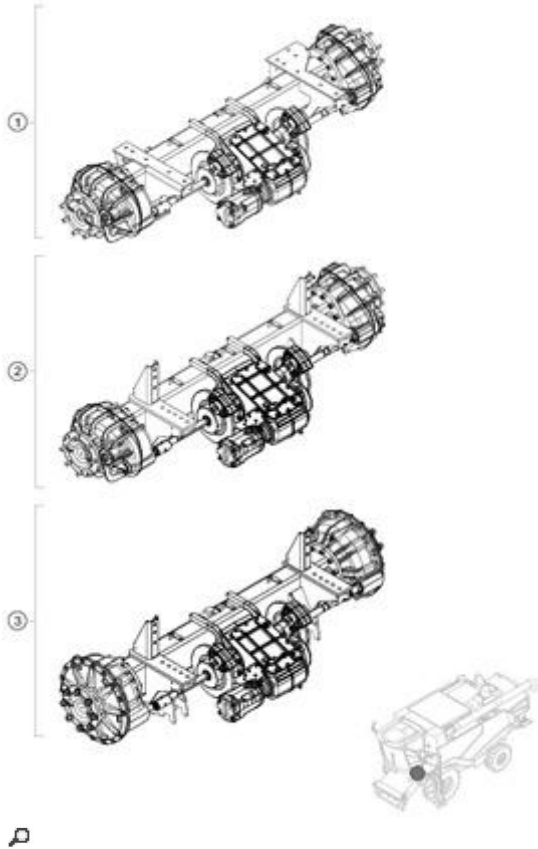
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- ▶ Block the wheel shaft with the service brake.
- ▶ Pulling in the wheel bolt (1) in two steps:
  - ▶ Step 1: Pull the wheel bolts (1) evenly and smoothly into the drilled hole until collar (2) makes contact with the flange surface.
  - ▶ Step 2: Re-tighten the wheel bolts (1).  
See the Operator's Manual of the machine in question.
- ▶ Unscrew wheel nut.
- ▶ Check the thread of wheel nut and of wheel bolt.
- ▶ Check wheel bolt for elongation.
- ▶ Install the drive wheel.  
See the Operator's Manual of the machine in question.
- ▶ Check for correct operation.

## Identifying the driving axle

### Technical specifications



	Value	CCN	Remark / designation	
1			Drive axle 00 0774 198 X Drive axle 00 0774 244 X Drive axle 00 0774 291 X Drive axle 00 0775 822 X Drive axle 00 0775 824 X	<u>Drive axle</u>
2			Drive axle 00 0774 427 X Drive axle 00 0774 428 X Drive axle 00 0774 429 X	<u>Drive axle</u>
3			Drive axle 00 0774 293 X	<u>Drive axle</u>

Tightening torques not specified, see "Introduction / Tightening torques" chapter

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