

## **00 00 675 Front axle differential service**



**Vehicle may slip off the vehicle hoist if the vehicle hoist is handled incorrectly.**

**Danger! Life-threatening injuries!**

- Observe safety information on raising the vehicle using a vehicle hoist.
- For additional information see: 00 ... Raising the vehicle using a vehicle hoist.



**Hot surfaces.**

**Risk of burning!**

- Perform all work only on components that have cooled down.



**Materials harmful to health.**

**Contact with fluids harmful to health!**

- Note and follow safety information on containers.
- Conduct all work in appropriate personal protective equipment only.



**Damage to the front axle differential.**

**Failure to comply with the oil specifications can result in serious damage to the front axle differential.**

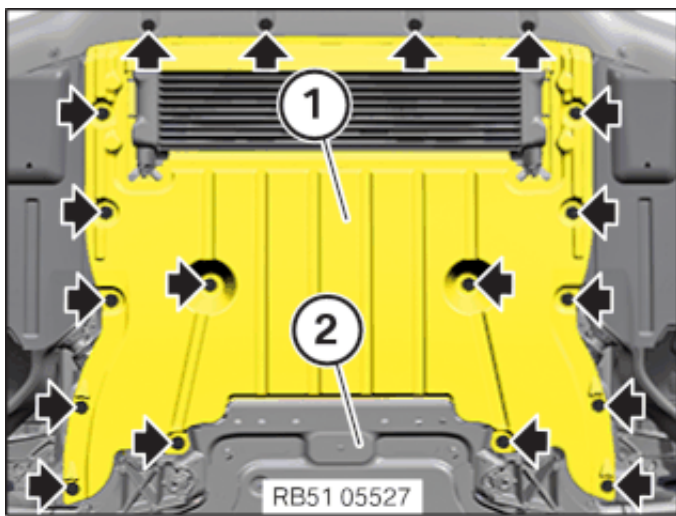
- Use only the approved front axle transmission oil.



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## PRELIMINARY WORK

### 1 – Removing the front underbody protection



- Release all bolts (arrows).
- Push front underbody protection (1) forwards slightly and feed under the stiffening plate (2).

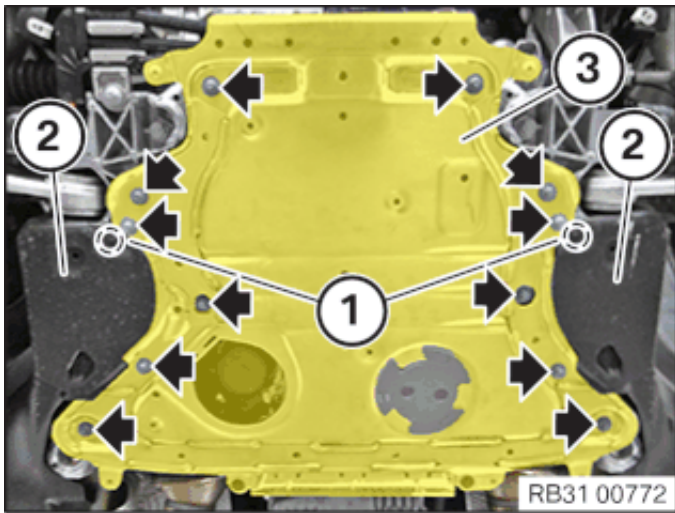
### 2 – Removing the stiffening plate



Secure component against falling.



Driving without stiffening plate is not permissible.



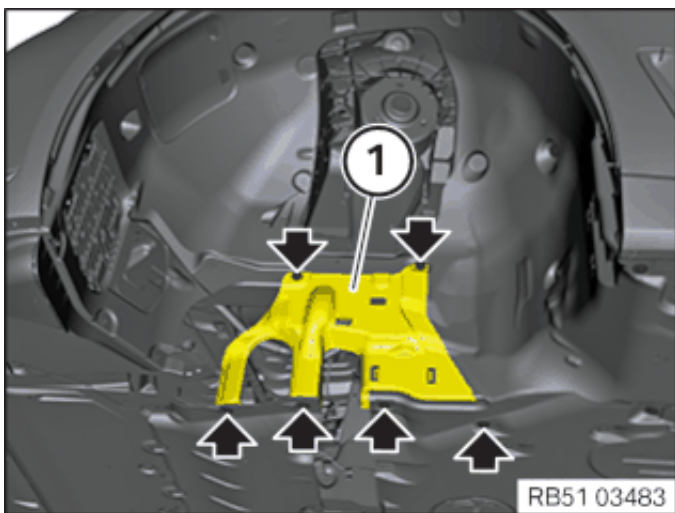
- Loosen screws (1).
- Remove screws (arrows).
- Guide out the stiffening plate (3) on the covers of the steering assembly (2) and remove it.

### 3 – Remove the cover of the steering assembly on the right

- ▶ Remove the cover of the steering assembly



To provide a better overview: Schematic diagram with partially hidden components.



- Release all bolts (arrows).
- Remove cover (1).

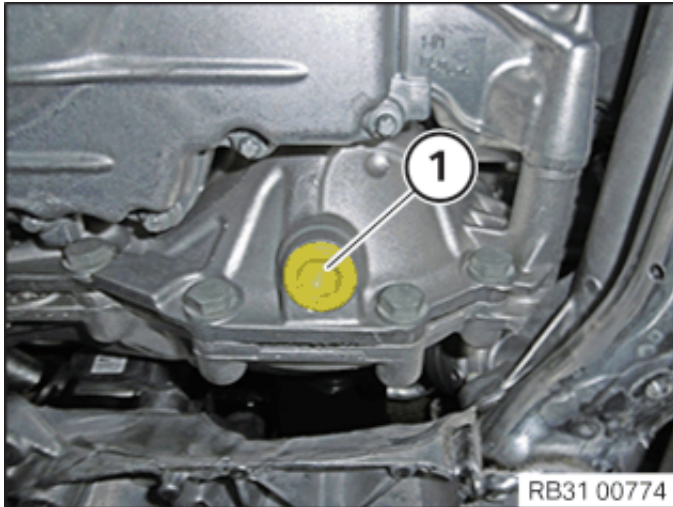
## MAIN WORK

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### 4 – Drain the front axle transmission oil

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Collect and dispose of emerging fluids. Observe country-specific waste disposal regulations.



- Place oil collecting apparatus underneath.
- Release the screw plug (1).
- Drain and dispose of front differential oil.
- Renew the screw plug (1).

**Parts:** Plug

- Tighten the screw plug (1).

### Screw plug to front axle transmission

M22	Renew screw plug with O-ring.	Tightening torque	60 Nm
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## 5 – Topping up with front axle transmission oil



### Damage to the front axle differential.

**Failure to comply with the oil specifications can result in serious damage to the front axle differential.**

- Use only the approved front axle transmission oil.

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Filling to the lower edge of the oil filler opening means that the front axle differential is overfilled. In some cases, this may lead to emerging oil from the ventilation opening on the front axle differential.

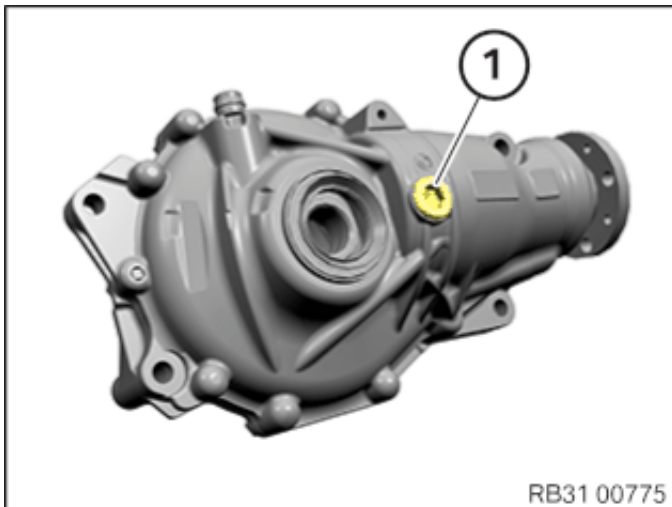
After having drained the front axle transmission oil, repair the front axle differential or upon initial filling of a new replacement front axle differential, the transmission must be filled with 600 ml of oil.

# i

Collect and dispose of emerging fluids. Observe country-specific waste disposal regulations.



- Use special tool **0 493 337 (00 2 080)** to top up the front axle transmission oil.



- Release the screw plug (1).
- Fill front axle transmission with front axle transmission oil.

### Front axle transmission oil

Front axle differential capacity	600 ml
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Transmission oil: Technically suitable front axle transmission oils

- Renew the screw plug (1).

**Parts:** Plug

- Tighten the screw plug (1).

### Screw plug to front axle transmission

M22	Renew screw plug with O-ring.	Tightening torque	60 Nm
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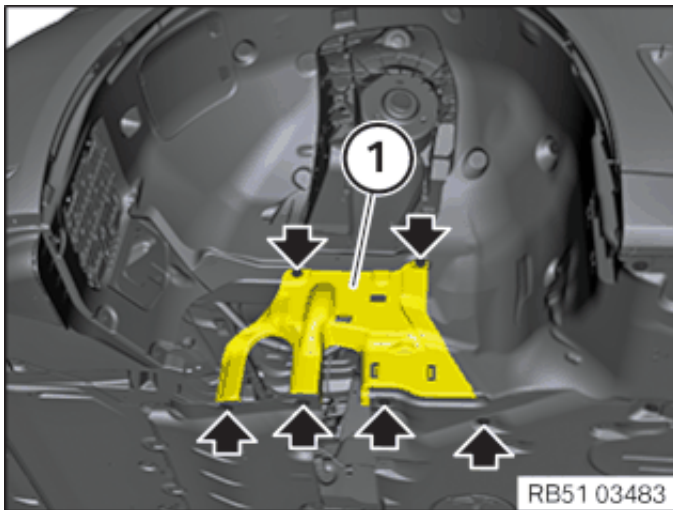
## POSTPROCESSES

## 6 – Install the cover of the steering assembly on the left

### ▶ Install the cover of the steering assembly



To provide a better overview: Schematic diagram with partially hidden components.

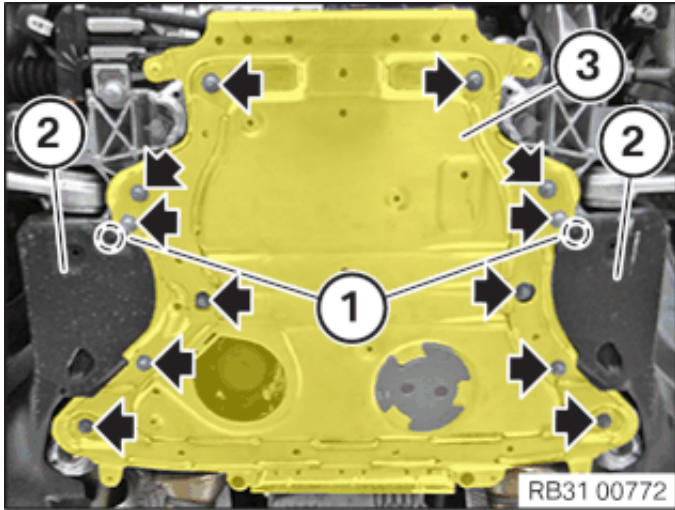


- Insert the cover (1).
- Tighten all bolts (arrows).

#### Cover, steering unit

Screw		Tightening torque	3 Nm
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## 7 – Installing the stiffening plate



- Feed in stiffening plate (3) at covers of steering assembly (2) and position.
- Renew the bolts (arrows).

**Parts:** Bolts

- Tighten screws (arrows).

#### Stiffening plate to front axle support

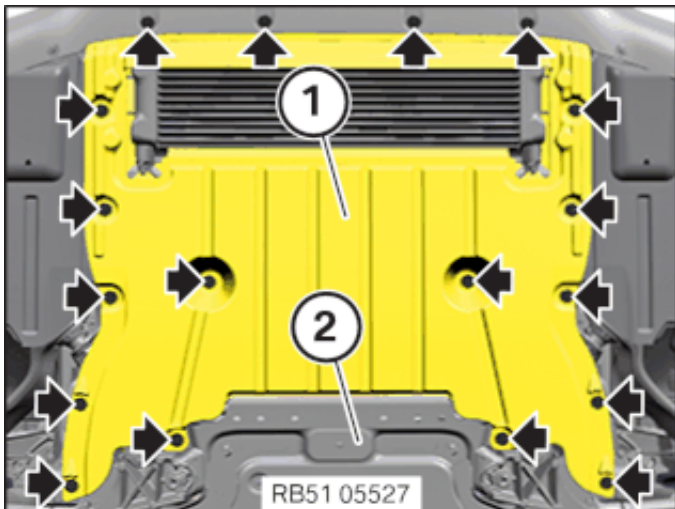
M8	Renew screws.	Jointing torque	25 Nm
		Angle of rotation	70 °

- Tighten the screws (1).

#### Underbody protection

Screw		Tightening torque	3 Nm
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### 8 – Installing the front underbody protection



- Insert the front underbody protection (1).
- Slide the front underbody protection (1) slightly backwards and insert under the stiffening plate (2).
- Tighten all bolts (arrows).

#### Underbody protection

Screw		Tightening torque	3 Nm
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### Additional Information

### Overview of Tightening Torques

## Screw plug to front axle transmission

Used in step 4 5

M22	Renew screw plug with O-ring.	Tightening torque	60 Nm
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## Cover, steering unit

Used in step 6

Screw		Tightening torque	3 Nm
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## Stiffening plate to front axle support

Used in step 7

M8	Renew screws.	Jointing torque	25 Nm
		Angle of rotation	70 °

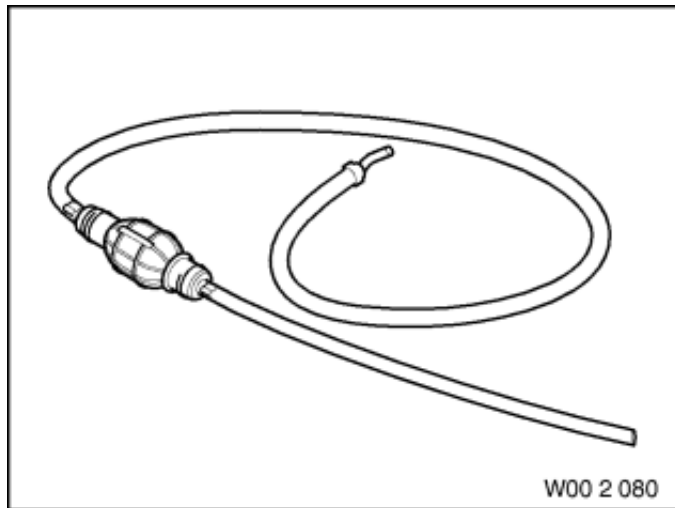
## Underbody protection

Used in step 7 8

Screw		Tightening torque	3 Nm
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## Overview of Special Tools

### 0 493 337 (00 2 080) Pump



### Common

Used in step 5

Usage	(Hand pump) For lifetime oil filling
Included in the tool or work	
Storage location	Individual
Replaced by	
In connection with	
SI-Number	01 01 98 (294)

## Overview Technical Data

## Front axle transmission oil

Used in step [5](#)

Front axle differential capacity

600 ml

Transmission oil: Technically suitable front axle transmission oils

## Links

### Repair instructions

Used in step

[00 .. ... Raising the vehicle using a vehicle hoist](#)

### Operating materials

Used in step

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