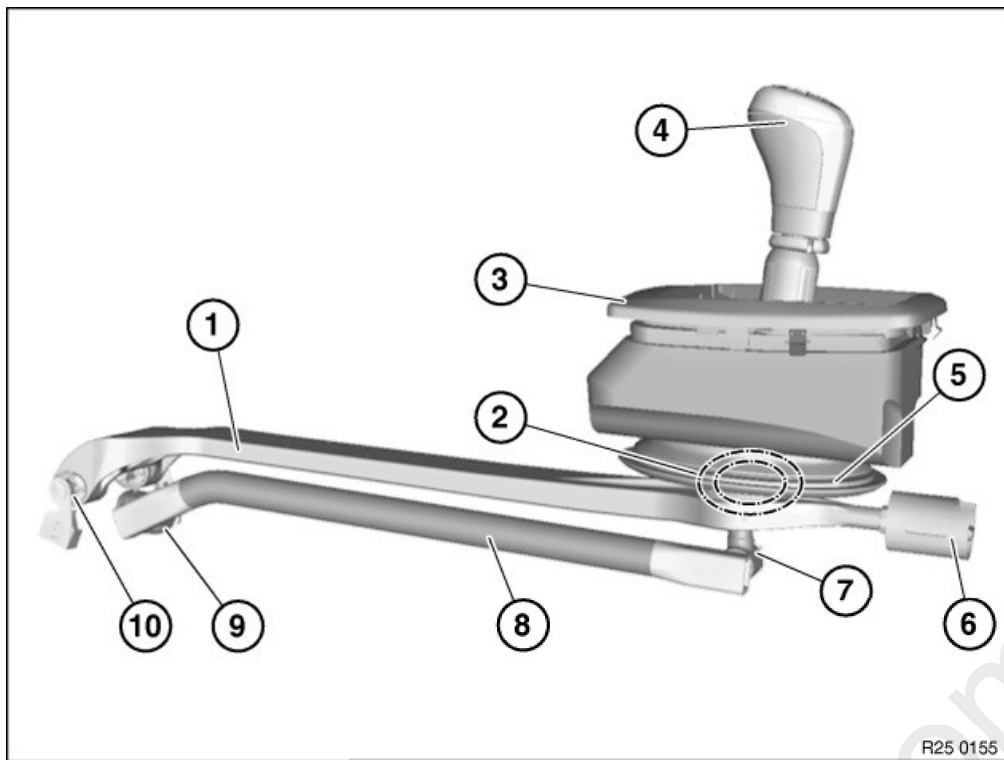


25 11 ... Overview of gearshift mechanism for manual gearbox



- | | |
|---|---|
| 1 Gearshift arm | 6 Support bearing (gearshift arm bearing) |
| 2 Ball socket (gearshift lever bearing) | 7 Gearshift lever |
| 3 Gearshift lever cover (gaiter) | 8 Gearshift rod |
| 4 Gearshift lever knob | 9 Gearshift rod joint |
| 5 U-type bellows | 10 Bearing bush |



**Special tools required:**

- 25 1 120
- 25 1 100

**Necessary preliminary tasks:**

- Remove complete exhaust system.
- Remove heat shields.
- Partially release propeller shaft.
 - Disconnect propeller shaft at transmission.
 - Release centre mount.
 - Tie up propeller shaft to underbody.

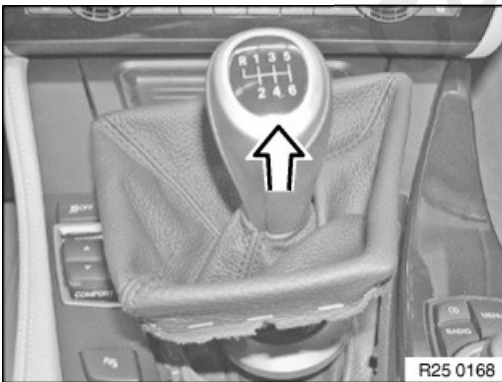
Note:

Bending the propeller shaft by an excessive angle can cause premature damage to the joint/propeller shaft!



Pull installation frame of gaiter at the sides upwards out of centre console. **Attention!**

Do not use a tool, as this would damage the installation frame or the centre console.

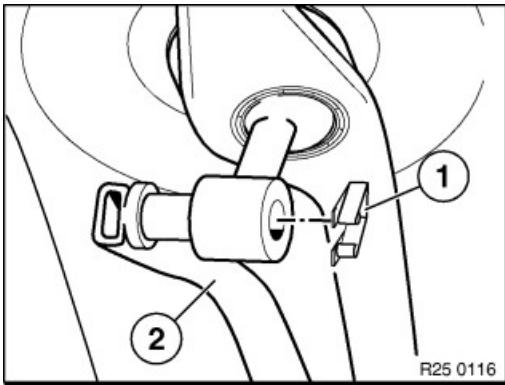
**Note:**

Do not twist knob during removal as this would cause the anti-twist lock in the knob to shear off.

Tug firmly to remove button. Installation note:

Fit knob on gearshift lever, align and press on until it snaps noticeably into place.





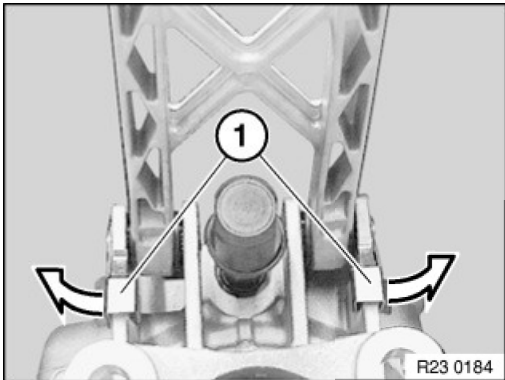
Detach retaining clip (1).

Remove gearshift rod (2).

Installation note:

Grease gearshift rod pin.

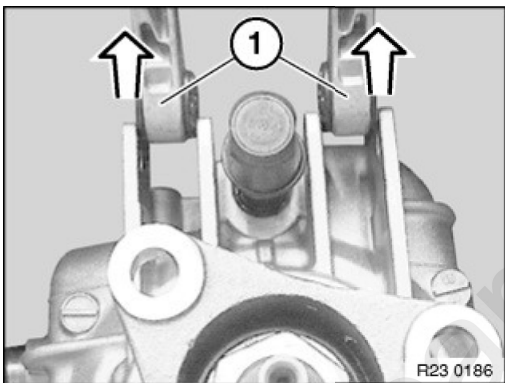
Grease, refer to BMW Service Operating Fluids.



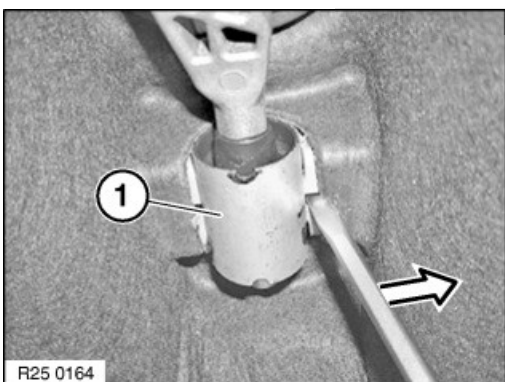
Unlock bearing journal (1) in direction of arrow and remove. *Installation note:*

Grease bearing journal.

Grease, refer to BMW Service Operating Fluids.

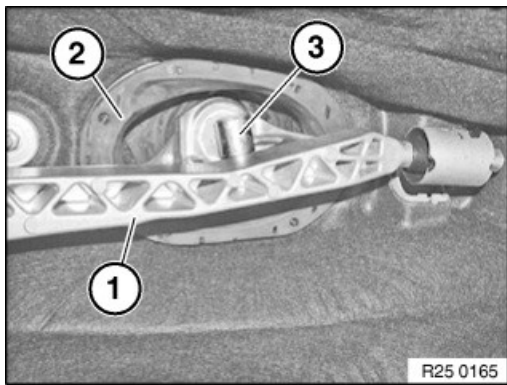


Lift out gearshift arm (1).

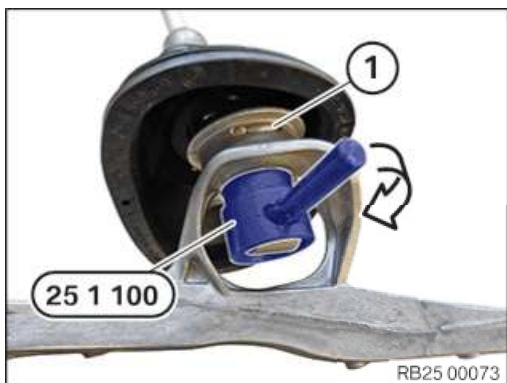


Lever support bearing (1) with a short screwdriver out of mounting.

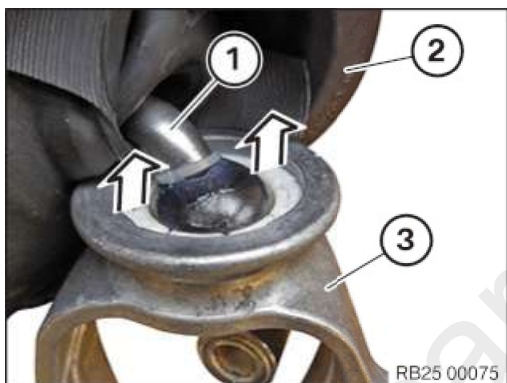




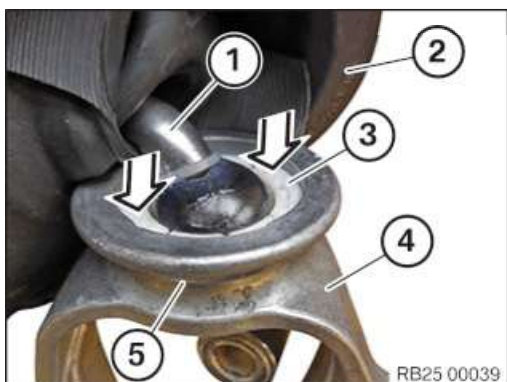
Feed U-type bellows (2) with gearshift arm (1) and gearshift lever (3) carefully out of body aperture toward the bottom. **Attention!**
The PVC guide inserted in the U-type bellows for the body aperture breaks easily during removal and installation.



Insert special tool 25 1 100 into the storage.
Turn special tool 25 1 100 in direction of arrow until the retaining lugs (1) are unlocked.



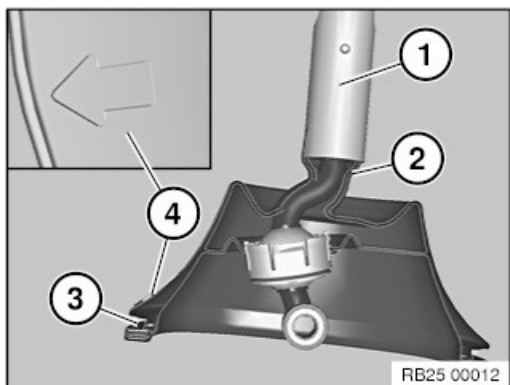
Release the U-type bellows (2) from the gearshift arm (3).
Release the gearshift lever (1) from the gearshift arm (3).
Installation note:
Pull the beading of the U-type bellows from below completely over the gearshift arm receptacle.



Installation note:
Grease the ball joint (3) of the gearshift lever (1).
Grease, refer to BMW Service Operating Fluids.
Insert the gearshift lever (1) into the gearshift arm (4).
Align mount:

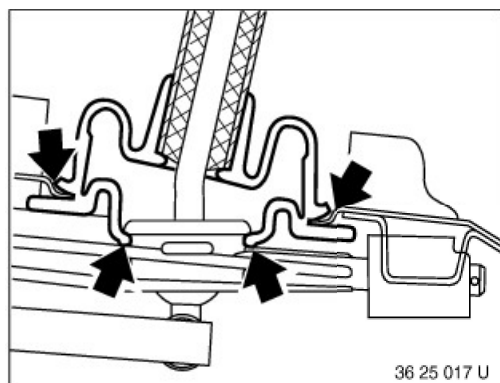
- Retaining lugs (5) of ball socket perpendicular to direction of travel.
- Press the storage (3) in area of retaining lugs (5) into gearshift arm (4) until the retaining lugs (5) audibly engage.





Installation note:

Arrow (4) on rubber boot must point in direction of travel.



Installation note:

Pull the inner rubber boot over the pot on the gearshift arm.

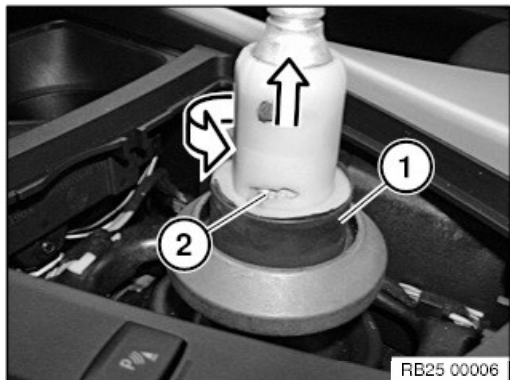
Button the outer rubber boot into the body aperture.

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**Necessary preliminary work:**

- Remove gaiter (gearshift lever cover) for gearshift lever.



Unlock vibration absorber (1) by turning counterclockwise.

Remove vibration absorber (1) upwards.

Installation note:

Ensure the locking pin (2) is correctly locked in the gate of the vibration absorber (1).



**Removal:**

Pull installation frame of gaiter at the sides upwards out of centre console.

Important!

Do not use a tool, as this would damage the installation frame or the centre console.

Tug firmly to remove button.

Note:

Do not twist knob during removal as this would cause the anti-twist lock in the knob to shear off.

**Installation:**

Fit knob on gearshift lever, align and press on until it snaps noticeably into place.

Press installation frame of gaiter downwards into centre console at sides.

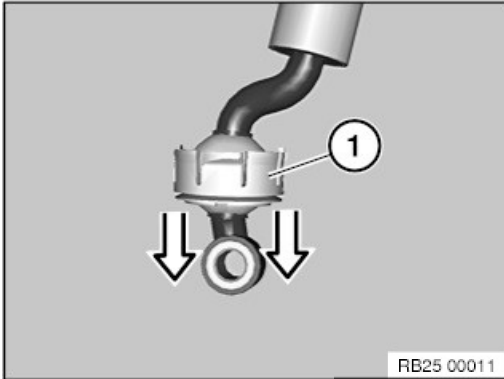
Important!

Do not use a tool, as this would damage the installation frame or the centre console.



**Necessary preliminary tasks:**

- Remove the gearshift lever knob for the gearshift lever.
- Remove gearshift lever.



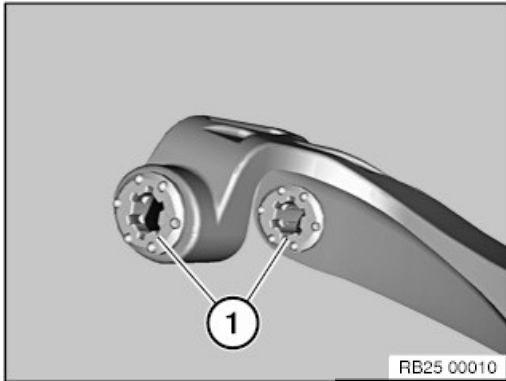
Pull ball socket (1) off the gearshift lever. **Installation note:**
Grease ball joint.

Grease, refer to BMW Service Operating Fluids.



**Necessary preliminary tasks:**

- Remove the gearshift arm.

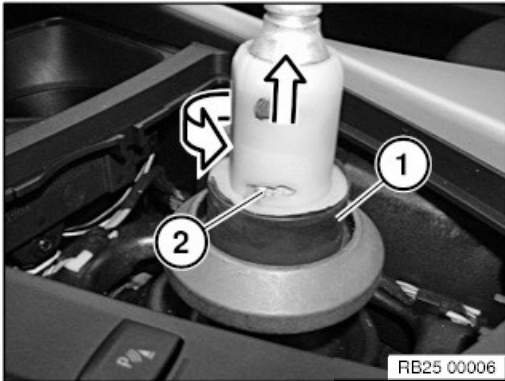


- Push the bearing bushes (1) out.
- Coat the new bearing bushes with Circolight (sourcing reference: BMW Parts Department).
- Press the bearing bushes (1) into the gearshift arm until the side face protrudes evenly.



**Necessary preliminary tasks:**

- Remove gearshift lever.

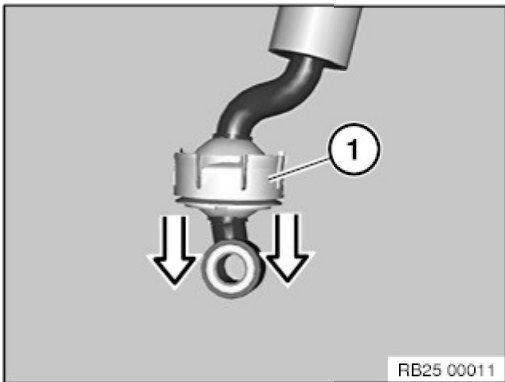


Unlock vibration absorber (1) by turning counterclockwise.

Remove vibration absorber (1) upwards.

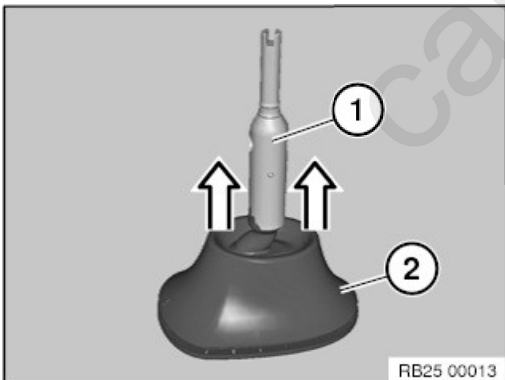
Installation note:

Ensure the locking pin (2) is correctly locked in the gate of the vibration absorber (1).



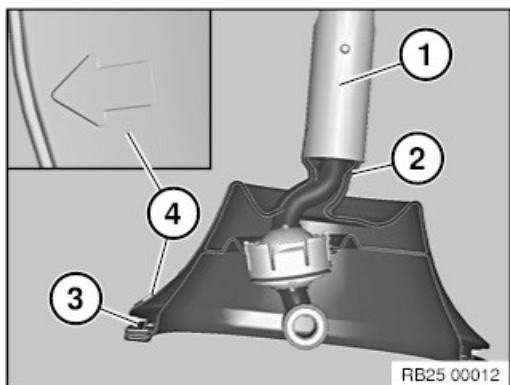
Pull ball socket (1) off the gearshift lever. **Installation note:**
Grease ball joint.

- Grease, refer to BMW Service Operating Fluids.



Detach rubber boot (2) from gearshift lever (1).





Installation note:

Degrease gearshift lever (1).

Coat rubber boot on inside of shaped element (2) with Circo Light.

- Circolight, refer to BMW Parts Service.

Pull rubber boot from above over gearshift lever (1) and align. Arrow (4) on rubber boot must point in direction of travel.

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**Necessary preliminary tasks:**

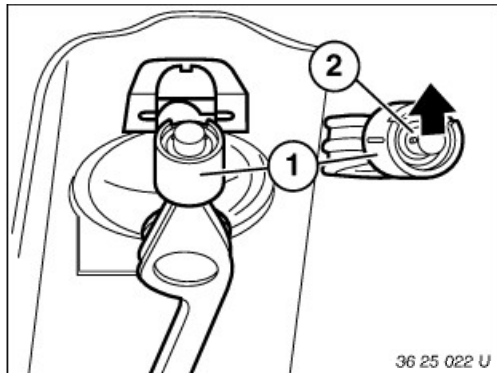
- The work steps for replacing a gaiter with tear lever are identical to removing gearshift lever knob.

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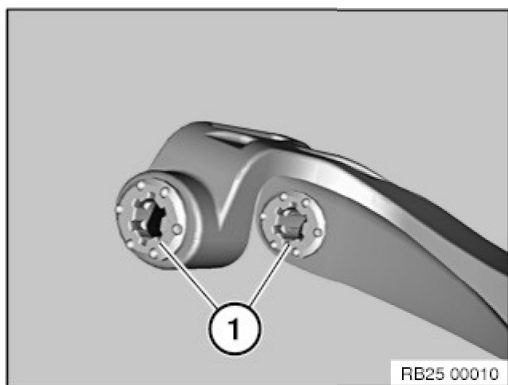
**Necessary preliminary work:**

- Remove gearshift lever.



Detach support bearing (1) from gearshift arm. *Installation note:*
Grease bearing journal of gearshift arm.

Grease, refer to BMW Service Operating Fluids.



Push the bearing bushes (1) out.

Coat new bearing bushes with Circolight (sourcing reference: BMW Parts Department).

Press the bearing bushes (1) into the gearshift arm until the side faces protrude evenly.

Installation note:

If the bearing bushes are damaged, replace them.

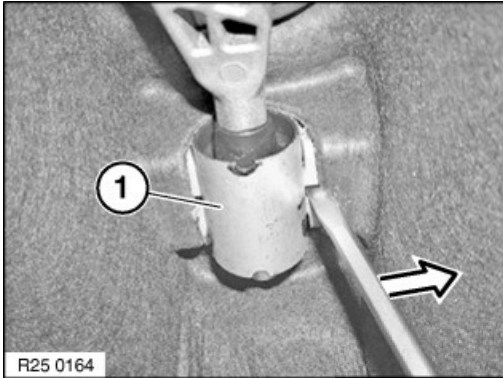
Grease bearing bushes.

Grease, refer to BMW Service Operating Fluids.

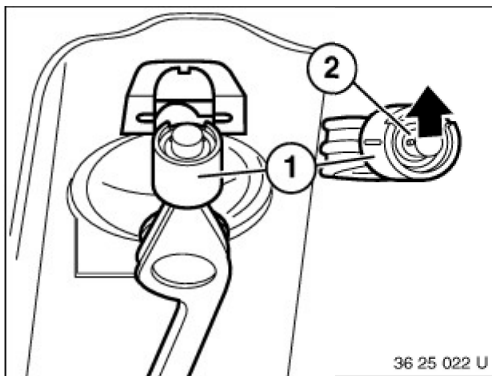


**Necessary preliminary tasks:**

- Remove complete exhaust system.
- Remove front heat shield.



Lever support bearing (1) with a short screwdriver out of mounting.
Pull support bearing off gearshift arm.

**Installation note:**

Grease bearing journal of gearshift arm.

Grease, refer to BMW Service Operating Fluids.

Fit support bearing (1) with recess (2) towards top rear onto mounting.



25 11 081 Replacing gearshift lever cover

1 – Detaching the gearshift lever cover



- Pull installation frame of gaiter at the sides upwards out of centre console.

2 – Installing the gearshift lever cover

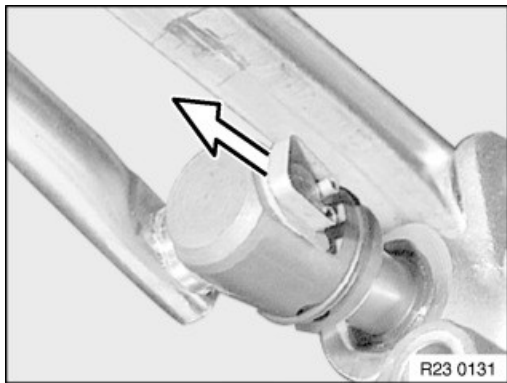


- Press the installation frame of gaiter on the sides and position.

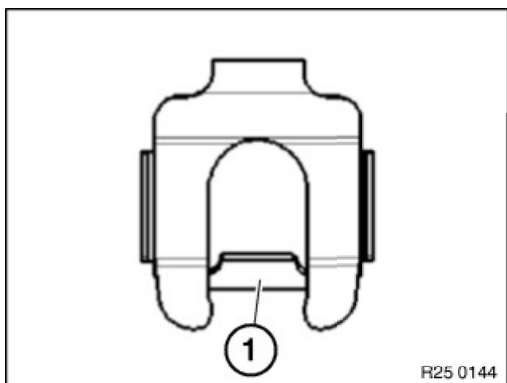
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25 11 101 Replacing gearshift rod

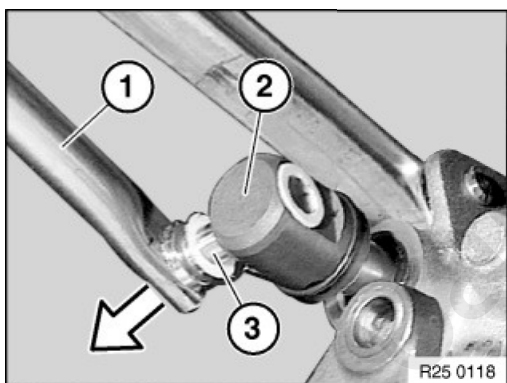


Detach retaining clip.



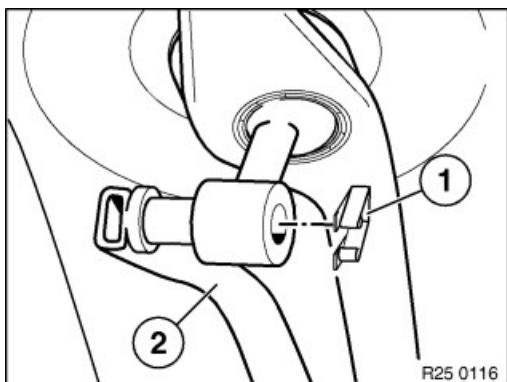
Important!

Retaining clip must interlock captively with retaining web (1) **behind** gearshift rod pin.



Pull gearshift rod (1) out of gearshift rod joint (2). *Installation note:* Grease gearshift rod pin (3).

Grease, refer to BMW Service Operating Fluids.



Detach retaining clip (1).

Remove gearshift rod (2).

Installation note:

Grease gearshift rod pin.

Grease, refer to BMW Service Operating Fluids.

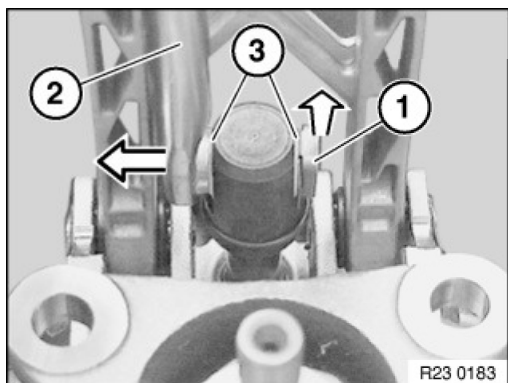


**Necessary preliminary tasks:**

- Remove exhaust system.
- Remove heat shields.
- Partially remove propeller shaft.
 - Disconnect propeller shaft at transmission.
 - Release centre mount.
 - Tie up propeller shaft to underbody.

Note:

Bending the propeller shaft by an excessive angle can cause premature damage to the joint/propeller shaft!



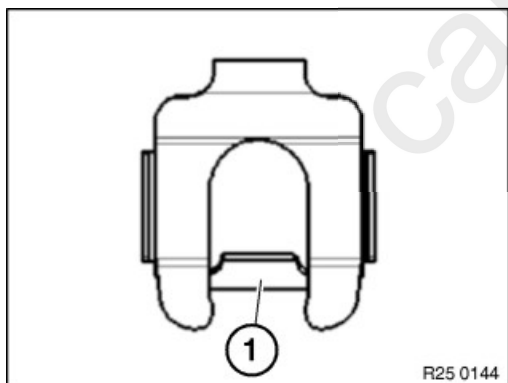
Lift off retainer (1).

Detach gearshift rod (2).

Installation note:

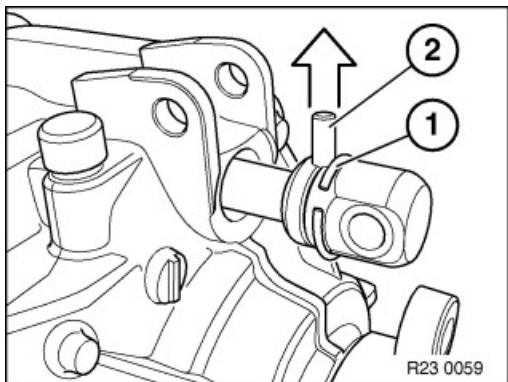
Grease gearshift rod pin.

Grease, refer to BMW Service Operating Fluids.



Retaining clip must interlock captively with retaining web (1) **behind** gearshift rod pin.





Lever spring circlip (1) out of groove and push a little towards rear.

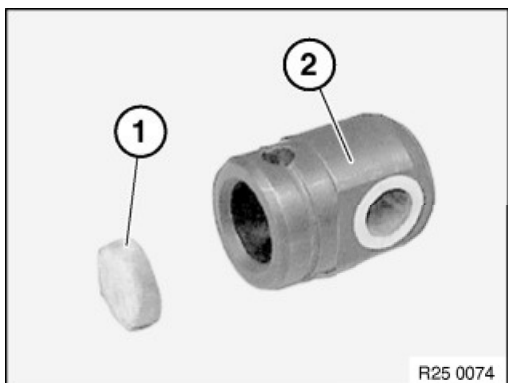
Press cylindrical pin (2) upwards/downwards out of gearshift rod joint and remove gearshift rod joint.

Installation note:

Grease ball of gearshift shaft.

Grease, refer to BMW Service Operating Fluids.

Replace spring circlamp (1).



Installation note:

Check rubber ring (1) in gearshift rod joint (2) and replace if necessary.

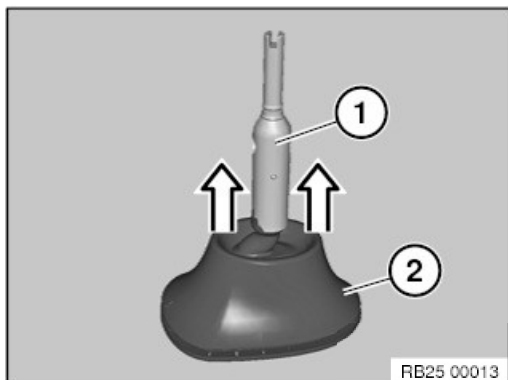
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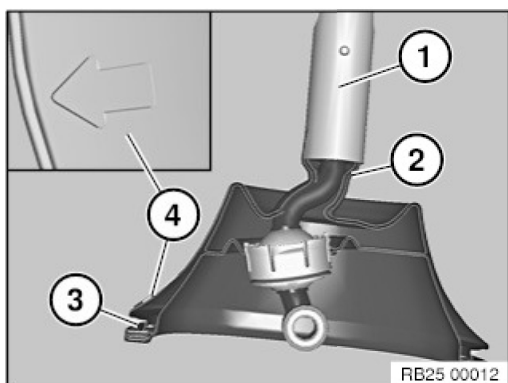
Necessary preliminary tasks:

- If necessary, remove vibration absorber.
- Remove gearshift lever.



Detach U-type bellows (2) from gearshift lever (1).

If necessary, first rub the inner with Circolight (sourcing reference: BMW Group Parts Service).



Installation note:

- Coat the inner U-type bellows on the shaped element (2) with Circolight (sourcing reference: BMW Parts Service)
- Pull U-type bellows from above over gearshift lever and align
- Arrow (4) on upper lip (3) must point crossways to mount eye in direction of travel

Key:

1. Gearshift lever
2. U-type bellows shaped element
3. U-type bellows lip
4. Direction arrow

