

From: Broadcast Messaging System
To: [DL-BMS Message Monitors](#)
Subject: R 1200 GS/GSA Recall Updated Bulletin
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From: Motorcycles
Expiration Date: July 31, 2017

DCSnet
Message
Urgent



Subject: **R 1200 GS/GSA Recall Updated Bulletin**

ATT: All BMW Motorrad USA Dealers.

The attached recall bulletin SI 31 002 17 replaces the technical campaign bulletin SI 31 001 17 issued on June 26th, 2017. Please discard the previous bulletin (31 001 17). A recall number will be issued shortly, however bikes can still be repaired by following the instructions and claim information in the attached bulletin.

Customers will receive official notification in the next 60 days from BMW Motorrad USA, however they DO NOT need to wait for a letter to have their vehicle repaired. VIN's have been flagged in DCSNET and AIR to check for affected vehicles.

Attachments:  [SI_31_002_17_Advance_Notice_of_Recall_Installing_Fixed_Fork_Tube_Bushing\[819cc0c6\].pdf](#)
 [SI_31_002_17_Advance_Notice_of_Recall_Installing_Fixed_Fork_Tube_Bushing\[819cc0c6\].pdf](#)

Recipients: BMW Motorcycles, CC-MotorcycleMailingList
BMW Motorcycles, All Offerings, All Regions, All Areas, All Departments, All Personnel





**** Advance Notice of Recall ****

Retrofit Fixed Fork Tube Bushing

**R 1200 GS (K50, K50/11),
R 1200 GS Adventure (K51)**

Leadership circle

Marketing

Sale
New motorcycles

Sale
Used motorcycles

Aftersales

Administration

Service Information No. SI 31 002 17

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Service Information No. SI 31 002 17

Retrofit Fixed Fork Tube Bushing

Details

As a result of ongoing field observations, BMW Motorrad has determined that the fixed fork tube (stanchion) of the R 1200 GS (K50, K50/11) and R 1200 GS Adventure (K51) can be damaged due to unusual incidents. Such high stress can be caused for example, when riding over an obstacle, during a fall or when driving through deep potholes. Resulting damage to the stanchion manifests itself through a gap between the stanchion and the press-fitted, top seal plug.

An inspection process along with a repair procedure has been developed. All affected motorcycles must receive one of the two repairs outlined in this bulletin.

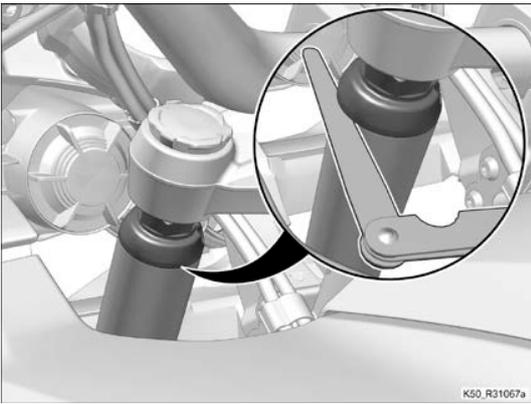


Figure 1: seal plug of the fixed fork tube (stanchion)

Note: for the inspection, the rubber grommet (not pictured) mounted at this location must be pushed down to view and measure any gaps.

Vehicles affected

In order to determine if a specific vehicle is affected by this Technical Campaign, it will be necessary to verify all vehicle VINs through a DCS Vehicle History Check. Based on the response of the system, either proceed with the repair or take no further action. Please note, affected VINs may not appear until 24-72 hours after the release of this bulletin.

NHTSA Statement

Please be reminded that it is a violation of federal law (The Safety Act) for you to sell, lease or deliver any new motor vehicle covered by this notification until the recall repair has been performed. This means that centers may not legally deliver new motor vehicles to consumers until they are fixed or use/sell replacement equipment/parts subject to this recall. Note also that substantial civil penalties apply to violations of the Safety Act.

Also, you should not sell, lease or deliver any Certified Pre-Owned or used vehicles subject to a safety recall until the repair is completed.

Please follow any special instructions that we provide to you for the return or disposition of recall parts.

Service Solution

Next time an affected vehicle is in the workshop, the fixed fork tubes (stanchion) are to be checked for possible preliminary damage according to the supplementary instructions 31 42 201 Checking the fixed fork tube. The resulting repair action is based on the result of the check of the individual stanchion and is to be taken from the following overview:

Service Information No. SI 31 002 17

Retrofit Fixed Fork Tube Bushing

Exchange or repair of the fork tubes

REPAIR ONE: Gap of the individual fork tube is 0.0mm (no gap) or less than or equal to ≤ 0.2 mm:
Press-fit the fork tube bushing onto the **existing** fork tube.

REPAIR TWO: Gap of the individual fixed fork tube is greater than >0.2 mm:
Press-fit the fixed fork tube bushing onto a **new** fork tube or replace with a fork tube that already has a press-fitted fork tube bushing.

- Fork tubes that are replaced must be stored until further notice. The stored parts must be labelled with the vehicle identification number and odometer reading.

See supplementary repair instructions;

- 00 60 317 Press on a fixed fork tube bushing
- 00 60 320 Retrofitting fixed fork tube with bushing

NOTICE

After completion of the repair, fixed fork tube bushes must be press-fitted on **both** fixed fork tubes.

Warranty processing

Defect code

00 00 31 30 00	Retrofit fork tube with bushing
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FRU number

00 60 320	Retrofit fork tube with bushing, 8 FRUs
+00 60 672	Additional labor for pressing fork tube bushings (if applicable) 1 FRU

NOTICE

The flat rate unit number 00 60 672 (if applicable) has to be used for each pressed-on bush. The flat rate unit number 00 60 672 with 1 flat rate unit has to appear twice in the warranty claim.

*Main Work: These main labor operations include all repair procedures to complete the task with allowance for necessary ancillary tasks (e.g. visual inspection, lubrication, cleaning parts etc.) and administrative tasks. Only one main labor operation can be claimed per repair visit. All other labor operations for any other line(s) must be claimed using plus code labor operations. Please refer to the Warranty Policy and Procedures Manual regarding add-ons, proper support, documentation, claims submission and archiving requirements as applicable.

Part numbers (invoice according to actually required parts)

31 42 8 566 596	Fork tube - 1 per p/n - 2 required per motorcycles
31 42 8 396 077	Fork tube bushing - 1 per p/n - 2 required per motorcycles
31 42 8 404 842	Fork tube with press-fitted fork tube bushing - 1 per p/n - 2 required per motorcycles
31 42 7 684 743	Nut - 1 per p/n - 2 required per motorcycles
31 42 7 674 776	O-ring - 1 per p/n - 2 required per motorcycles

If required, the sealing element set can also be billed.

31 42 8 532 723	1 Set of sealing elements (for 2 fork tubes)
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Special Tool

83 30 2 456 223	Mounting tool for fork bushings (31 1 561)
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Note: One Special Tool set 83 30 2 456 223 will be autoshipped to all dealers. This **one** tool set can be claimed one time per dealer by adding the part number to a single warranty claim related to this campaign.

Service Information No. SI 31 002 17

Retrofit Fixed Fork Tube Bushing

Questions regarding this bulletin?

For technical inquires in relation to this bulletin	Please contact the PuMA team
For warranty inquires in relation to this bulletin.	Motorrad.Warranties@bmwna.com
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31 42 201 Checking the fixed fork tube

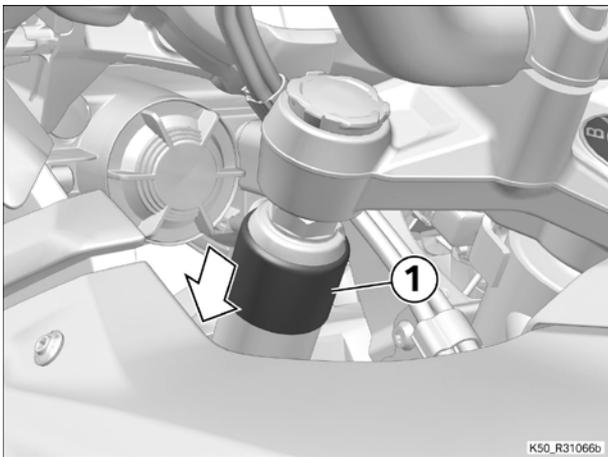
1

► Checking of fixed fork tube

NOTICE

During the check, the front wheel must be relieved completely.

Relieve the front wheel, e.g. brace the rear end of the vehicle downwards or lift vehicle with scissor-type lifter under the engine.

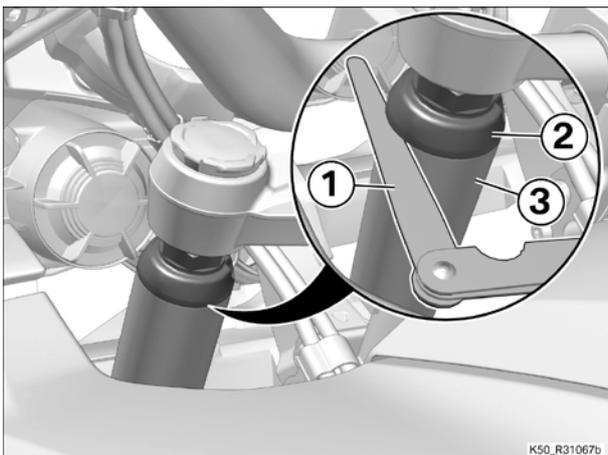


- ♦ Remove protective cap (1).

NOTICE

The description is for the left side of the vehicle.

The description also applies analogously to the right side of vehicle.



Check

- ♦ Check if there is a gap between the seal plug (2) and the fixed fork tube (3) using a feeler gauge (1) around the whole circumference.
- ♦ Perform the check on both fixed fork tubes.



Technical data

Check of gap dimension with feeler gauge	Repair fixed fork tubes at	≤0.2 mm	
	Replace fixed fork tubes at	>0.2 mm	

Result

If a gap of ≤0.20 mm is present, the fixed fork tube must be **repaired**.

Measure

- ◆ **Repair** the fixed fork tube according to the repair manual (press-fit fixed fork tube bushing).
 - 00 60 317 Press on a fixed fork tube bushing
 - 00 60 320 Retrofitting fixed fork tube with bushing

Result

If a gap >0.20 mm is present, the fixed fork tube must be **replaced**.

Measure

- ◆ **Replace** the fixed fork tube.

NOTICE

A fixed fork tube bushing must be press-fitted onto a **new** fixed fork tube if required. See repair manual 00 60 317 Press-fitting a fixed fork tube bushing

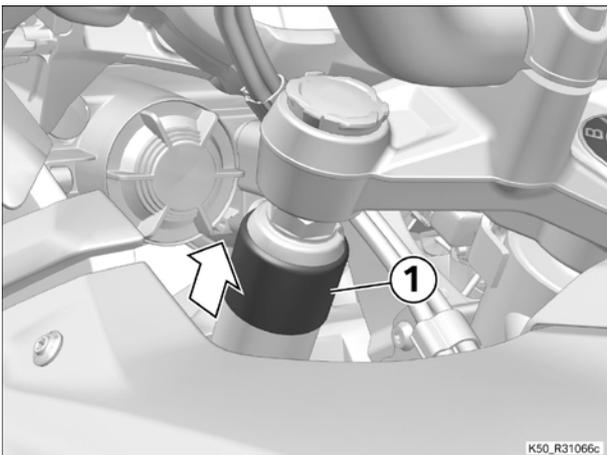
- ◆ Replace the fixed fork tube according to the repair manual.
 - 00 60 316 Checking and replacing fixed fork tubes

Result

The feeler gauge cannot be inserted onto **both** fixed fork tubes.

Measure

- ◆ A fixed fork tube bushing must be press-fitted on a fixed fork tube without any gap.
- ◆ Push protective cap **(1)**.



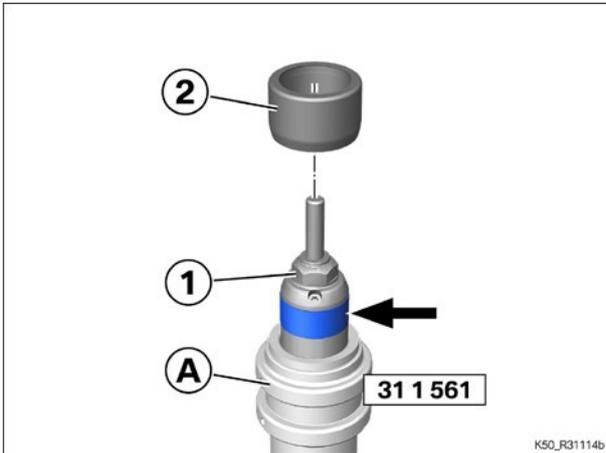
2

► Follow-up work

- ◆ Final check of work performed

00 60 317 Press on a fixed fork tube bushing

1



► Press-fitting fixed fork tube bushing on to existing fixed fork tube

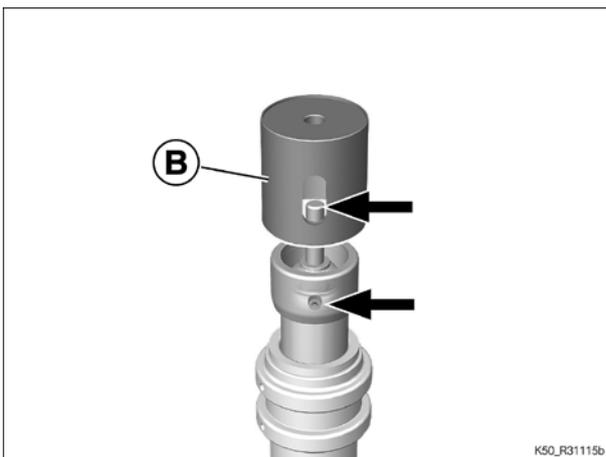
- ◆ Remove the protective cap.
- ◆ Insert the fixed fork tube (1) into the counter support (A) (31 1 561). **Tool position must be vertical.**
- ◆ Lubricate the fixed fork tube (1) in the indicated area (**arrow**).



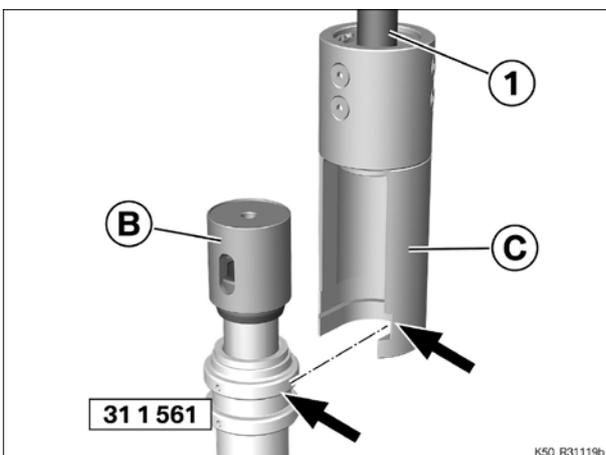
Lubricant

Acid-free friction-bearing grease	81 22 9 407 174
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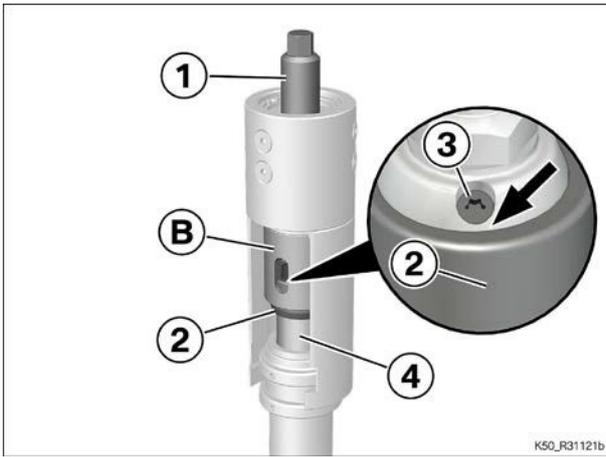
- ◆ Press the fixed fork tube bushing (2) with **taper towards the bottom** onto the fixed fork tube (1).
- ◆ Fit the thrust piece (B), aligning the opening to the bleeder screw while doing so (**arrows**).



When fitting the thrust piece make sure to follow the repair instructions completely. Make sure the fixed fork tube is lubricated, the bushing is seated evenly and do not exceed 140nm. Do not use any air or other power tools with the special tool. Use the special tool vertically, do not lay the tool horizontally. Misuse of the tool or not following the repair instructions will result in damage to the tool and/or the stanchion and is not a warranty matter.



- ◆ Turn the spindle (1) towards the top and lubricate with the grease included with the tool.
- ◆ Insert the sleeve (C) onto the counter support while making sure that the guide is inserted to the limit position (**arrows**).



- ◆ Using the spindle **(1)** and the thrust piece **(B)** press-fit the fixed fork tube bushing **(2)** to the limit position or with tightening torque.

 Technical data			
Tightening torque for sleeve (fixed fork tube bushing)		140 Nm	

- » Bleeder screw **(3)** must be completely free **(arrow)**.

Check Result

The fixed fork tube bushing is not in the end position after press-fitting with tightening torque.

Measure

- ◆ Clean the fixed fork tube and the fixed fork tube bushing and repeat work with new parts.
- ◆ Loosen the spindle **(1)**, remove tools.
- ◆ Clean the fixed fork tube **(4)**.



00 60 320 Retrofitting fixed fork tube with bushing

1

► Checking fixed fork tubes

NOTICE

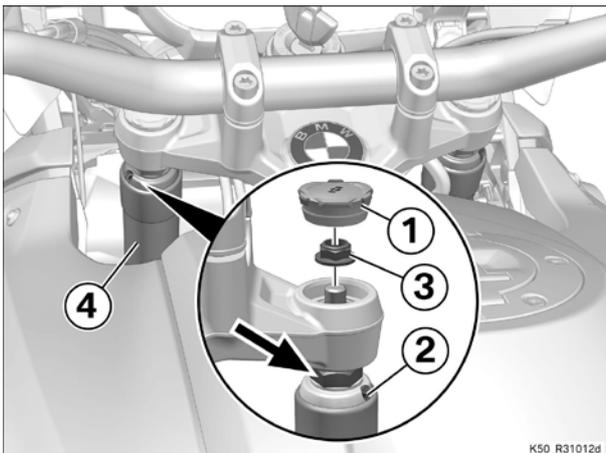
During the check, the front wheel must be relieved completely.

Relieve the front wheel, e.g. brace the rear end of the vehicle downwards or lift vehicle with scissor-type lifter under the engine.

- ◆ Perform check according to 31 42 201 Checking fixed fork tubes on both fixed fork tubes.

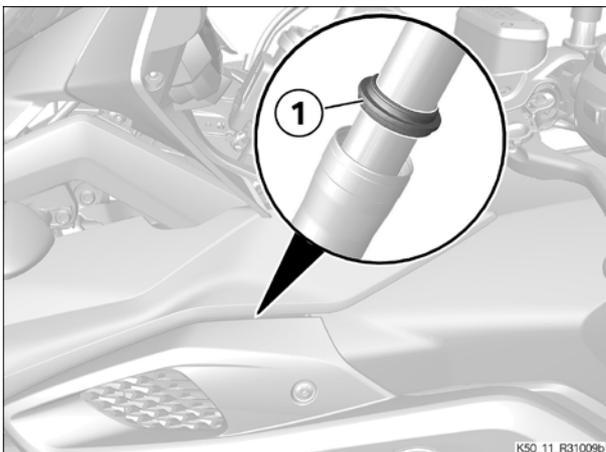


2



► Release and remove fixed fork tube from fork bridge

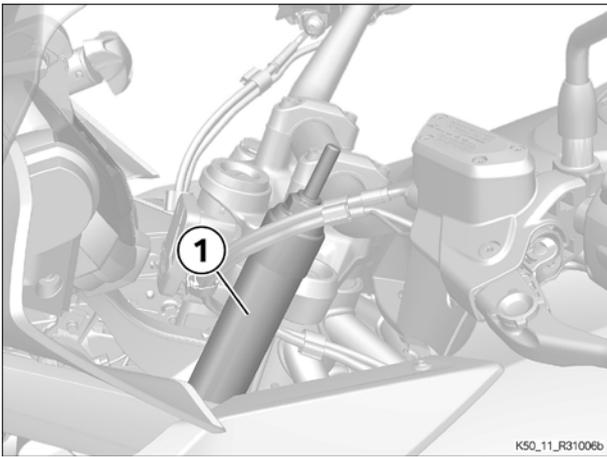
- ◆ Remove cover caps **(1)** with plastic wedge to avoid scratching the fork bridge.
- ◆ Remove screw plugs **(2)**.
- ◆ Remove nuts **(3)**, while counter-holding the hexagon head **(arrow)**.
- ◆ Lower the fixed fork tube **(4)** **slowly** downwards.



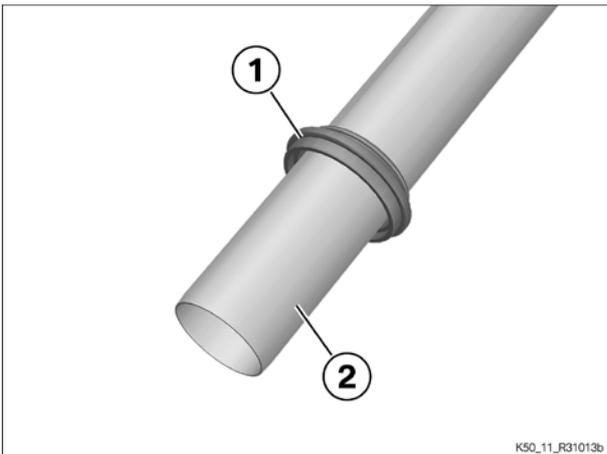
- ◆ Release dust boot **(1)** with plastic wedge.
- ◆ Check whether fork oil has accumulated under the dust boot **(1)**.

NOTICE

If fork oil has accumulated under the dust boot, the sealing ring must be renewed.

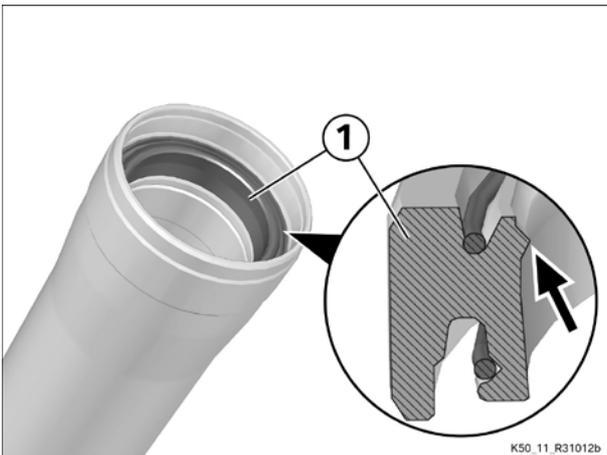


- ♦ Slightly swivel the fixed fork tube **(1)** and remove, draining off the **residual oil in the slider tube**.
- ♦ Remove the protective cap **(2)**.



- ♦ Pull off the dust boot **(1)** from the fixed fork tube **(2)**.

3

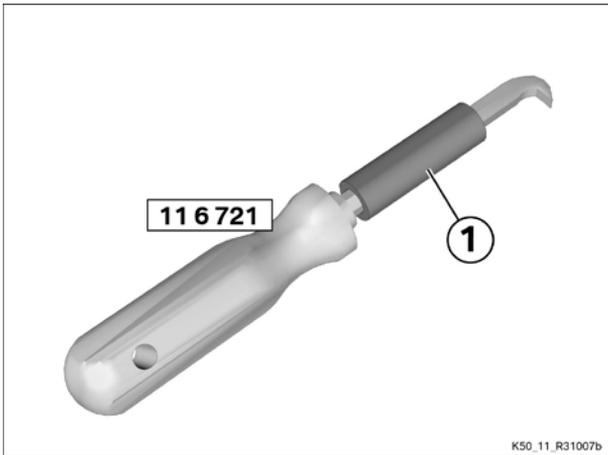


► Check sealing ring, renew it if necessary

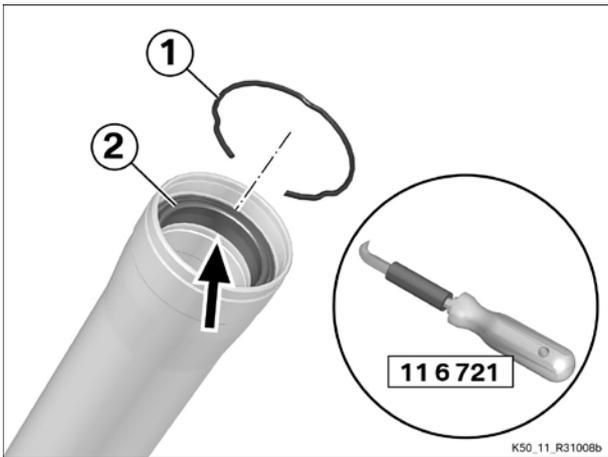
- ♦ Check sealing lip (**arrow**) of sealing ring **(1)**, renew sealing ring **(1)** if necessary.

NOTICE

The set of sealing elements must be checked according to the instructions. The set of sealing elements may only be renewed in the case of damage.



- ◆ Pad a suitable leverage tool, e.g. slide a suitable petrol hose (1) onto the lever (11 6 721).



- ◆ Remove circlip (1).

ATTENTION

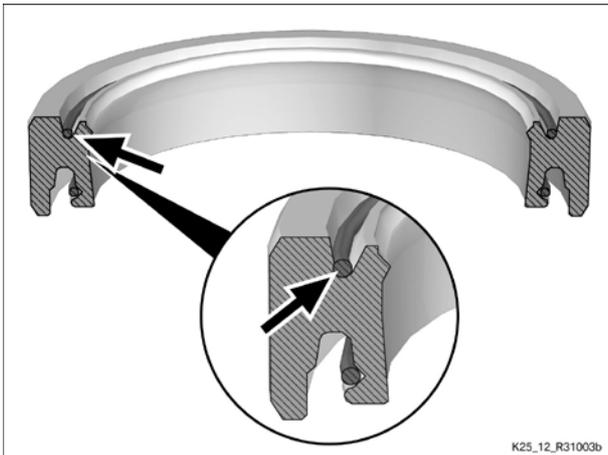
Use of hard or sharp-edged objects in proximity to component

Component damage

- ◆ Take care not to scratch components; cover or mask as necessary.

- ◆ Remove sealing ring (2) with lever (11 6 721).

4



► **Installing sealing ring if required**

- ◆ Lubricate inside of new sealing ring slightly.

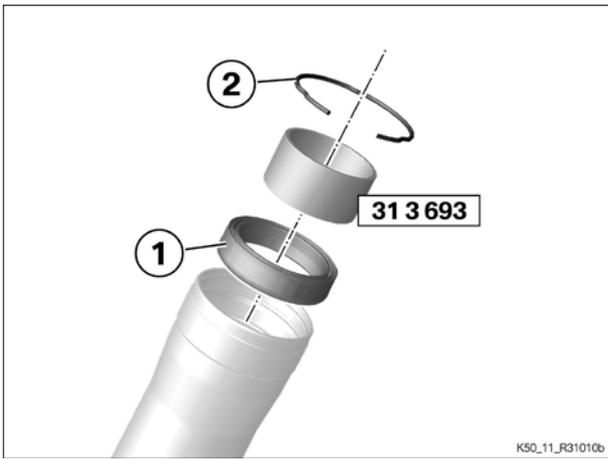


Lubricant

Unirex N3

83 19 2 160 349

- ◆ Slip new sealing ring into position with small recess (**arrow**) or labelling toward the dust boot.



K50_11_R31010b

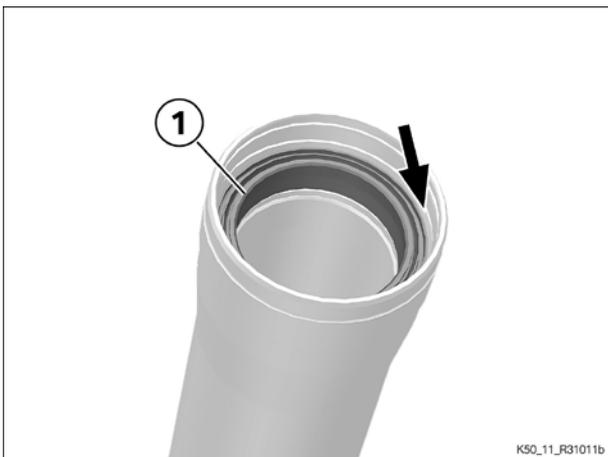
ATTENTION

Damage to the sealing lip due to use of incorrect tool

Damage to the sealing ring, oil leakage

- ◆ Subject sealing ring to load only at the outer circumference, do not press on the sealing lip.
- ◆ Use the special tool specified in the repair manual.

- ◆ Install sealing ring (1) with impact bush (31 3 693) to limit position.
- ◆ Install circlip (2).



K50_11_R31011b

- ◆ Clean up fork oil in area (arrow) above the sealing ring (1).

NOTICE

If there is fork oil between the sealing ring and the dust boot, it may lead to oil leakage in the fixed fork tube.

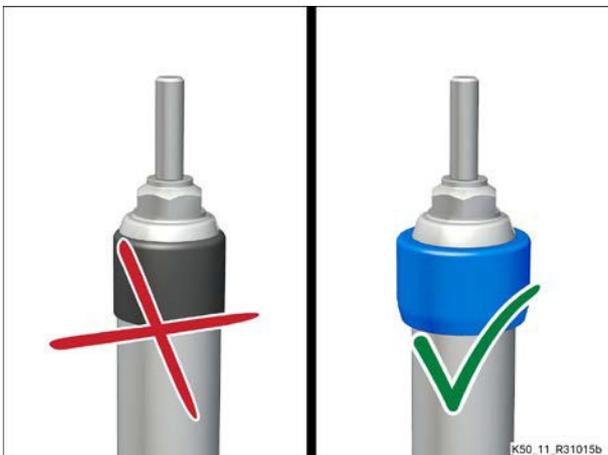
Clean up fork oil in the space between the sealing ring and the dust boot.

5

► Installing left fixed fork tube and securing it in fork bridge

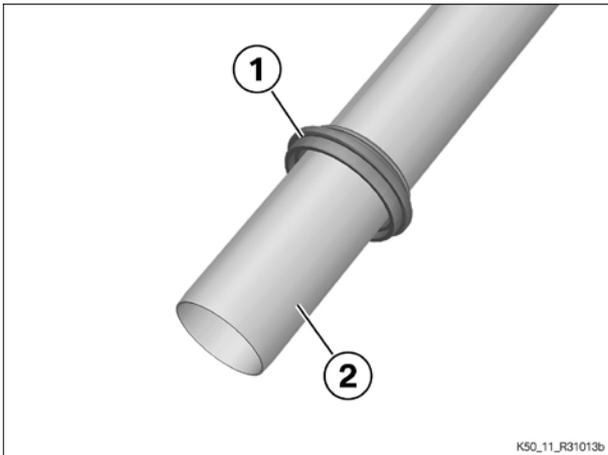
NOTICE

After completion of the repair, fixed fork tube bushings must be press-fitted on **both** fixed fork tubes. If necessary, a fixed fork tube bush must also be press-fitted on a fixed fork tube without any gap.



K50_11_R31015b

- ◆ Do not install fixed fork tube with protective cap.
- ◆ **Only install fixed fork tube with fixed fork tube bush.**
- ◆ If necessary, fixed fork tube bushings must be pressed onto new fixed fork tubes according to the repair manual.
 - Press-fit 00 60 317 fixed fork tube bushings



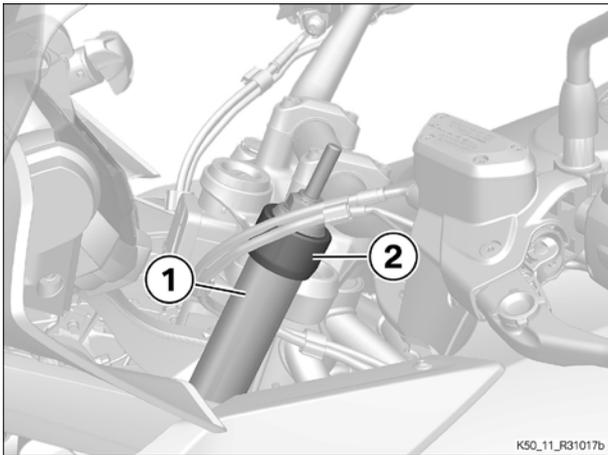
- ◆ Slightly lubricate the inner face of dust boot **(1)**.



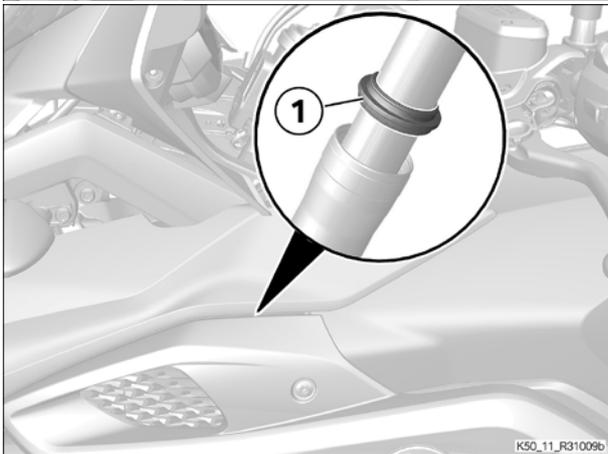
Lubricant

Molykote 111	11 00 7 660 832
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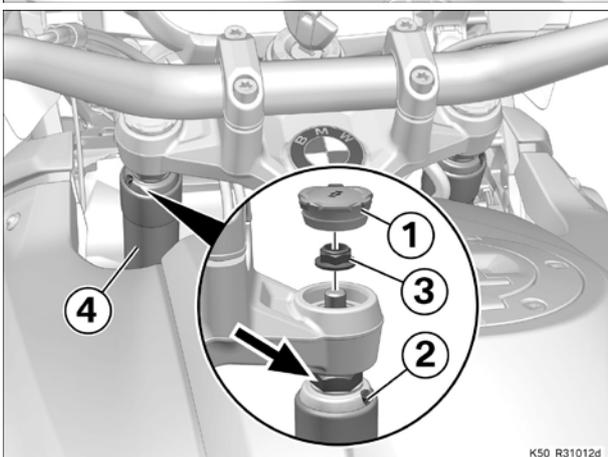
- ◆ Slip dust boot **(1)** on to fixed fork tube **(2)**.



- ◆ Install fixed fork tube **(1)** with fixed fork tube bushing **(2)**.



- ◆ Install dust boot **(1)**.



- ◆ Secure fixed fork tube **(4)** with **new** nut **(3)**.
- ◆ Align fixed fork tube **(4)** so that the screw plug **(2)** faces **out**.
- ◆ Install nut **(3)**, counter-holding at the hexagon head **(arrow)** while doing so.



Tightening torques

Fork bridge, top, to fork fixed tube

M10 x 1.25, Replace nut	40 Nm	
Thread-locking compound (mechanical)		

- ◆ Install cover cap **(1)**.
- ◆ Carry out work on right fixed fork tube as well.

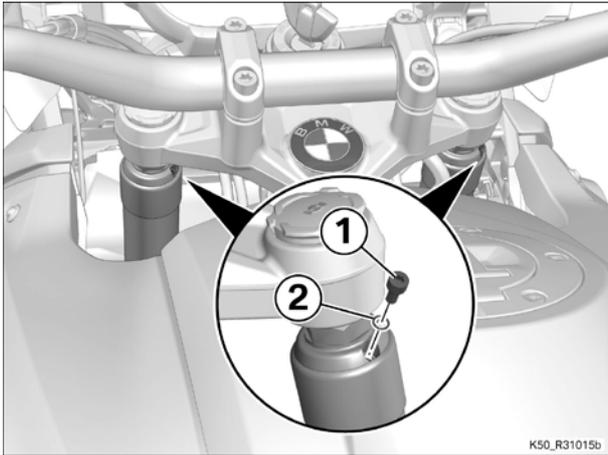


6

► Venting fork legs

NOTICE

After installation, the fork leg must be ventilated.
Fork legs must be fully rebounded **when ventilating**, lift the front of the vehicle if necessary.



- ◆ Remove screw plugs **(1)**.
- ◆ Dispose of the O-rings **(2)**.
- ◆ Install screw plugs **(1)** with **new** O-rings **(2)**.

Tightening torques

Screw plug to seal plug

M4 x 8, Renewing O- ring	2.5 Nm	
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7

► Final check of work performed

- ◆ Check the following:
 - The work as performed achieved the intended purpose.
 - All reservoirs and containers have been filled and all fluids and lubricants are at their correct levels.
 - All threaded fasteners released beforehand have been correctly retightened.