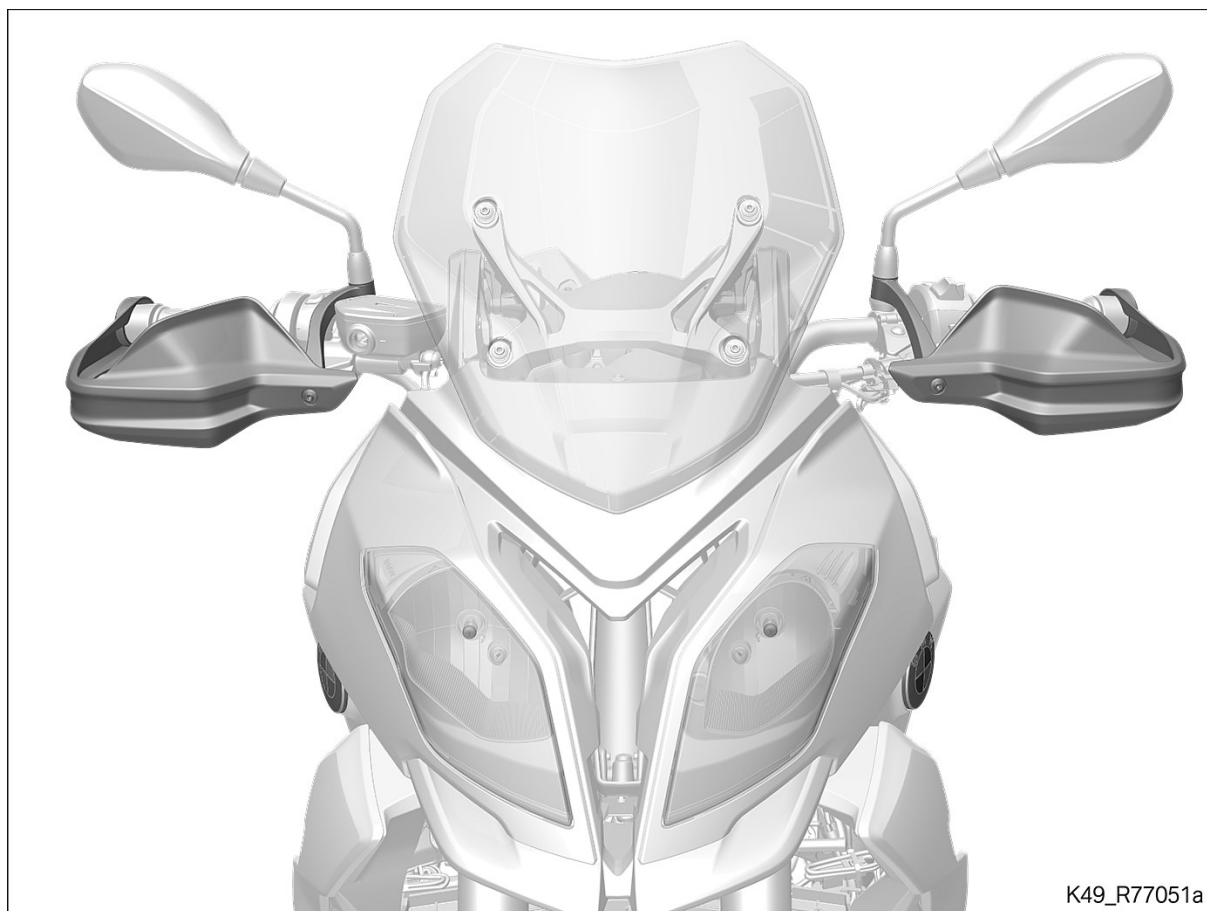


BMW Motorrad

Workshop installation instructions

Hand protectors



K49_R77051a

Before commencing work, you must read these installation instructions through carefully and make sure you understand them fully.

BMW Motorrad recommends having this installation kit installed by a specialist workshop with the requisite special tools, preferably an authorised BMW Motorrad dealer.

Incorrect installation and incorrect handling give rise to considerable safety risks.

The symbols used to draw attention to precautionary statements in this manual are as follows:



CAUTION

indicates a hazard with a low degree of risk which, if not avoided, could result in slight or moderate injury.



WARNING

indicates a hazard with a medium degree of risk which, if not avoided, could result in death or serious injury.



DANGER

indicates a hazard with a high degree of risk which, if not avoided, will result in death or serious injury.



ATTENTION

Specific instructions and safety precautions intended to prevent damage to the motorcycle and accessories. Non-compliance can void the warranty.



NOTICE

Specific instructions on how to operate, control, adjust or look after items of equipment on the motorcycle.



Tightening torque

Screws, bolts and nuts are tightened in accordance with the applicable DIN/ISO standards. Tightening torques that deviate from the standards are stated. Non-compliance can result in damage to the motorcycle or accessories or can endanger the rider.

- Start of the main activity
- ▷ Start of the secondary activity
- Instruction

- ◄ End of the main activity
- ◁ End of the secondary activity
- ◇ End of validity designation CS (construction status), OE (optional extra) or OA (optional accessory)

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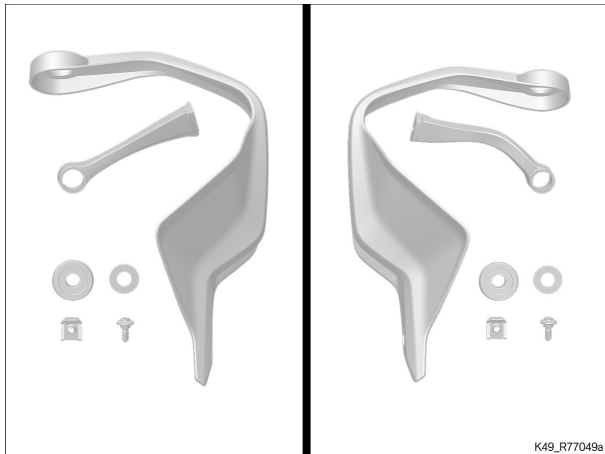
Subject to change without notice. Errors and omissions excepted.

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Hand protectors

Requisite tools

- Set of open-ended spanners
- Set of Torx bits
- Torque wrench



Scope of supply

- Hand protector, left
- Bracket, left
- Shouldered bushing
- Washer
- Flat nut, M5
- Body-panel screw with collar, M5
- Hand protector, right
- Bracket, right
- Shouldered bushing
- Washer
- Flat nut, M5
- Body-panel screw with collar, M5

Also required:

 Thread-locking compound	
Loctite 243, Medium strength	83 19 2 210 339

General instructions

ATTENTION

Vehicle is not securely propped.

Risk of damage to parts if vehicle topples.

- Prop the vehicle securely.

WARNING

Adjusting the mirror while riding.

Risk of accident

- Do not attempt to adjust the mirror unless the motorcycle is at a standstill.

WARNING

Restriction of clearances and functions of brake lever, clutch lever, throttle twistgrip and handlebar travel after a fall or if motorcycle topples.

Risk of accident

- After a fall or if the motorcycle topples, check the clearances and functions of brake lever, clutch lever, throttle twistgrip and handlebar travel.
- If there is any restriction, before continuing to ride re-adjust, repair, replace or remove hand protector/handlebar weight so that all the above-mentioned clearances and functions are ensured.

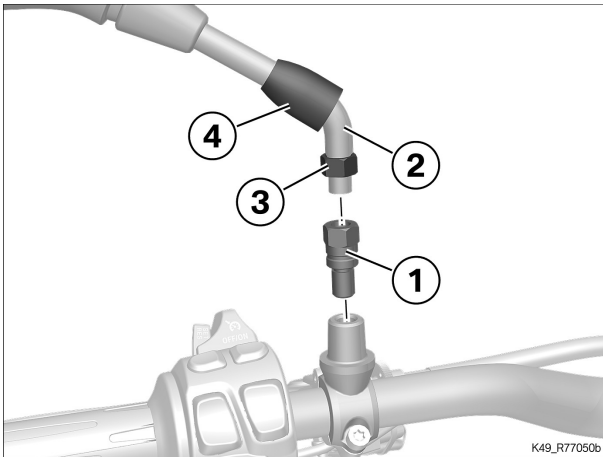
77 32 001 Installing hand protector, left and right

- with hand protectors^{OA}
- without hand protectors^{OE} (0589)

– without centre stand^{OE} (0636)

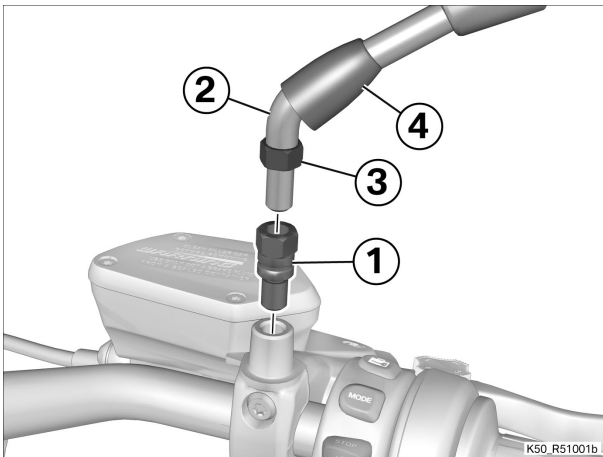
Additional work: 46 52 510 Removing and installing the rear-wheel stand special tool (motorcycles without centre stand)◇

1



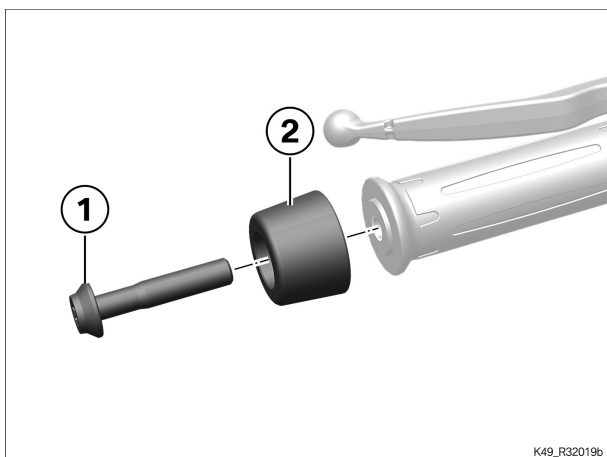
► Removing both mirrors

- Turn the handlebars all the way to the left.
- Push back cover (4).
- Turn locknut (3) **clockwise** to slacken.
- Remove left mirror (2) and left/right adapter (1).



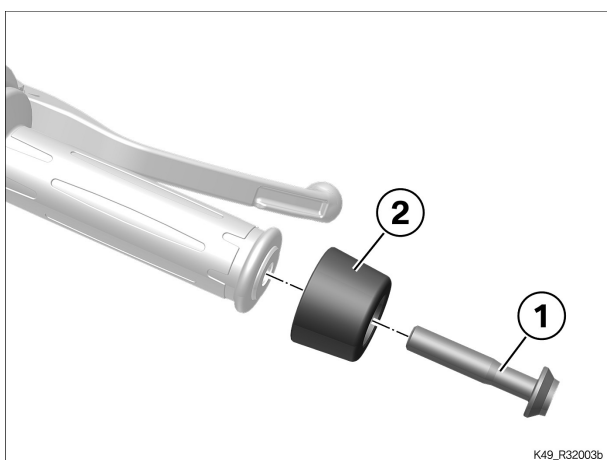
- Turn the handlebars all the way to the right.
- Push back cover (4).
- Turn locknut (3) **clockwise** to slacken.
- Remove right mirror (2) and left/right adapter (1).

2



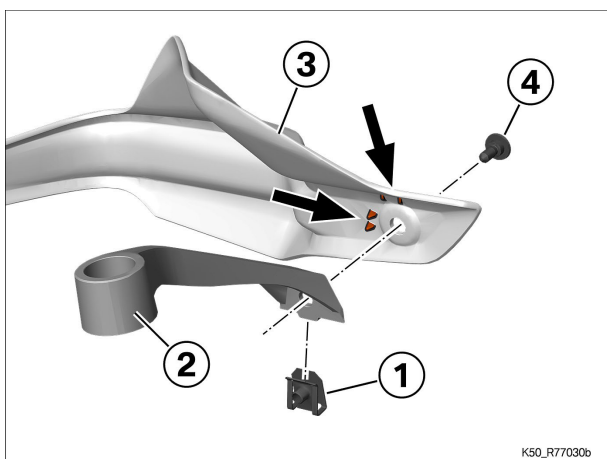
► Removing both handlebar weights

- Remove screw **(1)** and left handlebar weight **(2)**.



- Remove screw **(1)** and right handlebar weight **(2)**.

3



► Assembling hand protector, left and right

- Install flat nut **(1)**.
- Position bracket **(2)** at the anti-twist stops (**arrows**) of left hand protector **(3)**.
- Install screw **(4)**.



Tightening torques

Hand protector to bracket

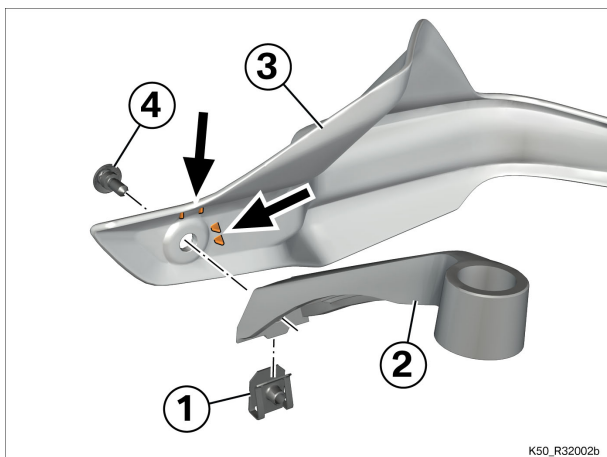
M5 x 14.5, 3 mm collar

2 Nm

– with hand protect-ors^{OE} (0589)

or

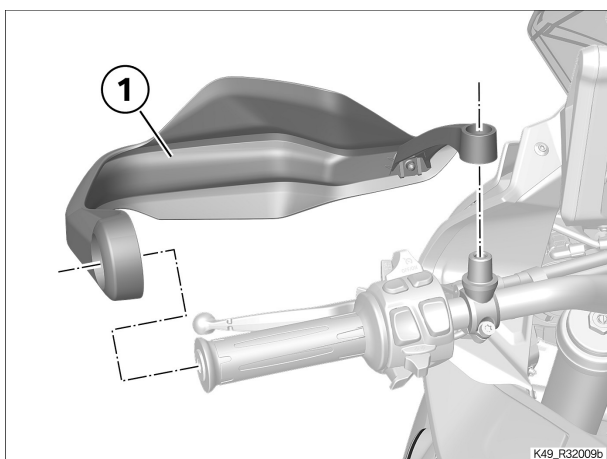
– with hand protect-ors^{OA}



- Install flat nut **(1)**.
- Position bracket **(2)** at the anti-twist stops (**arrows**) of right hand protector **(3)**.
- Install screw **(4)**.

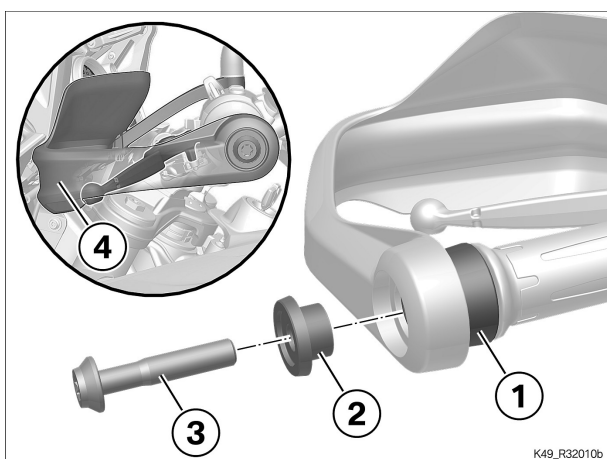
 Tightening torques		
Hand protector to bracket		
M5 x 14.5, 3 mm collar	2 Nm	– with hand protect-ors ^{OE} (0589) or – with hand protect-ors ^{OA}

4



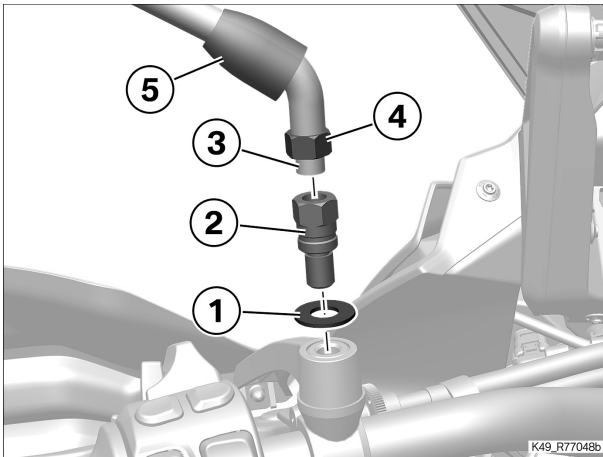
► Installing left hand protector

- Place left hand protector **(1)** in position.



- Clean the threads.
- Install handlebar weight **(1)**.
- Insert bushing **(2)** with screw **(3)**.
- Correctly position left hand protector **(4)**.
- Tighten screw **(3)**, making sure that left hand protector **(4)** does not twist out of position.

 Tightening torques		
Handlebar weight to handlebar		
M10 x 50 Thread-locking compound (Loctite 243, Medium strength)	38 Nm	



- Install washer **(1)**.
- Install adapter **(2)**.

Tightening torques

Clamping piece (mirror) to clamping block

M10	25 Nm	
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- Install mirror **(3)** and adjust it to the correct position.
- Tighten locknut **(4)**.

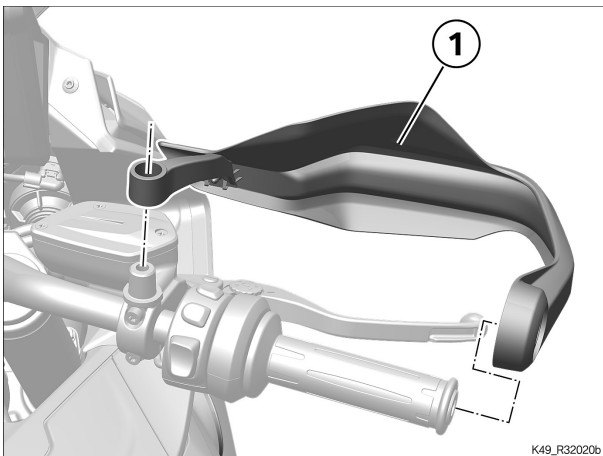
Tightening torques

Mirror (lock nut) to adapter

Left-hand thread, M10 x 1.25	22 Nm	
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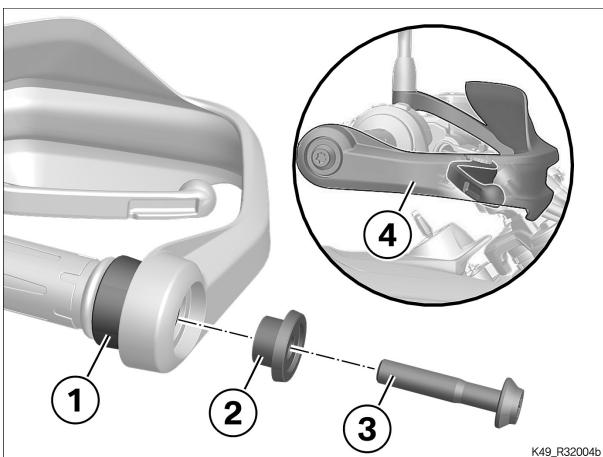
- Slip cover **(5)** over the threaded fastener.

5



► Installing right hand protector

- Place right hand protector **(1)** in position.

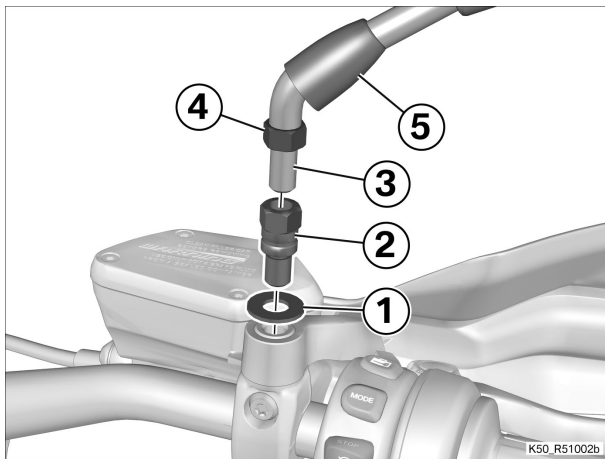


- Clean the threads.
- Install handlebar weight **(1)**.
- Insert bushing **(2)** with screw **(3)**.
- Correctly position right hand protector **(4)**.
- Tighten screw **(3)**, making sure that right hand protector **(4)** does not twist out of position.

Tightening torques

Handlebar weight to handlebar

M10 x 50	38 Nm	
Thread-locking compound (Loctite 243, Medium strength)		



- Install washer (1).
- Install adapter (2).

 Tightening torques		
Clamping piece (mirror) to clamping block		
M10	25 Nm	

- Install mirror (3) and adjust it to the correct position.
- Tighten locknut (4).

 Tightening torques		
Mirror (lock nut) to adapter		
Left-hand thread, M10 x 1.25	22 Nm	

- Slip cover (5) over the threaded fastener.



6

► Final check of work performed

- Check that
 - the work as performed achieved the intended purpose.
 - all reservoirs and containers have been filled and that all fluids and lubricants are at their correct levels.
 - all threaded fasteners released beforehand have been correctly retightened.
 - the fuel system is free of leaks.
 - the lights and signalling equipment are fully operational and that the motorcycle is roadworthy.
 - the brake pads of the front and rear brakes are bedded against the brake discs.

▷ Function test, engine start suppression

Check

- Move the kill switch to the operating position (ON).
- Select neutral.
 - » Neutral telltale light "N" lights up.
- Switch on the ignition.
 - » Neutral telltale light "N" goes out.
- Press the starter button.
 - » Starter does **not** operate.
- Extend the side stand.
- Pull the clutch lever.
- Press the starter button.
 - » Starter does **not** operate.
- Retract the side stand.
- Press the starter button without releasing the clutch lever.
 - » Starter operates.

Result

Not all test steps completed successfully.

Measure

- Check the appropriate parts with the BMW Motorrad diagnostic system.◇

