



Installation manual and safety information

Handlebar Booster



BMW R18

From model year 2021



Caution



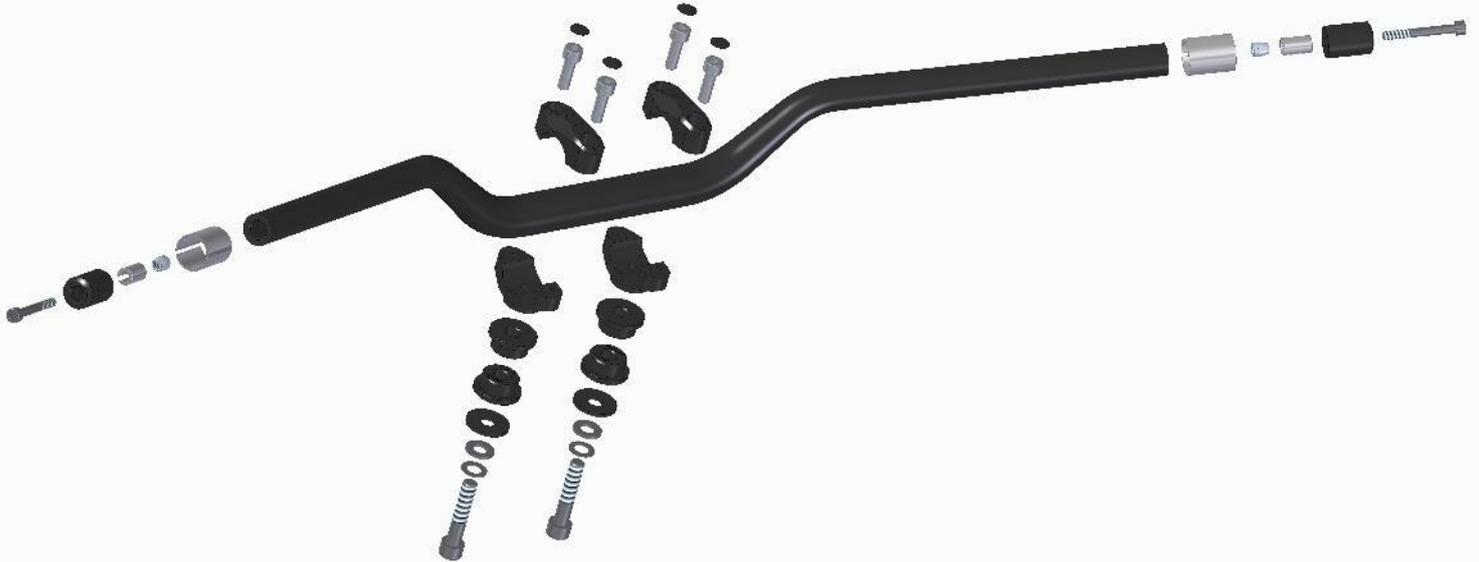
Important safety advice:

- Working on motorcycles poses a safety risk. Some work may only be carried out by appropriately qualified personnel. Faulty work can have serious consequences and may pose a threat to life and health. Only undertake installation works if you are sufficiently qualified and have an official workshop manual as well as all relevant service notifications available. Otherwise, we strongly recommend that the installation is carried out or at least checked in a specialist workshop.
- Any work in relation to the installation, removal and tightening torque of original parts should always be carried out in compliance with the workshop manual.
- All screws must be attached with thread-locking fluid. However, this should only be done after the installation is complete.
- It is your responsibility to check the product regularly and to determine if a service or replacement is required.
- Please bear in mind that some products are safety-relevant parts of your vehicle. After a fall or collision, check the product and if there is the slightest indication of damage, you must completely replace it.
- Some products require registration.
- These products have been designed for a standard vehicle. ABM® Fahrzeugtechnik GmbH makes no warranty or guarantee of any kind for any damages whatsoever arising out of the combination with other component parts not tested by ABM, as a consequence of improper installation or inadequate maintenance.
- Brake fluid may damage painted surfaces and fairings. Use suitable means to protect all of the surfaces against damage.

1 Preparation

- Please read the entire safety information and installation manual carefully.
- A motorcycle not securely positioned can fall over during the following work. Therefore, make sure that the motorbike is positioned on solid, flat ground and is secured against falling over and rolling away.
- Keep children and pets away from the work area.
- Protect removed parts from damage.
- Please note when disassembling individual parts which screws are used to fasten them. Keep these parts and screws and unless specified otherwise, reuse when assembling.

2 Content



Make sure that the motorbike is securely positioned

Cover all parts in the handlebar area (tank, speedometer, fender).



Drain the brake and clutch fluid according to the manufacturer's specifications.

Remove both pumps and hydraulic lines.



Unscrew the handlebar weights.



Dismantle the housing of the switch units on both sides, loosen the fixing screws and unplug the plugs of the units.



Remove the switch units.



Remove the two screws under the top yoke, pull the cable harness out of the handlebar and remove the handlebar with the risers.



Remove the original screws and bushings.



Use the bushings provided for installation.



Attach the booster risers as follows:

From below, push the two screws provided together with the safety washers, washers as well as large diameter washers and bushings into the top yoke.

From above, insert two further bushings into the top yoke and screw the riser onto the thread (see drawing).



Caution: The narrow side of the risers must be aligned towards the driver.

Insert the handlebar (0429 or 0410) into the risers and fasten lightly.

Next, fasten the risers from below using the two screws (M10).

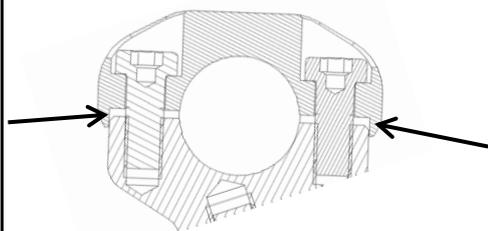
Tightening torque 48 Nm.



Remove the handlebar again and check the screw length.

Make sure that the screw does not end in the clamp area of the handlebar.

Make sure that the screw ends no more than 1.5mm inside the riser.



Caution:

During installation, make sure that there is a gap on both sides between top and bottom and no surface touches anything.



Insert the handlebar back into the risers, adjust as desired and fasten.

Tightening torque 25 Nm

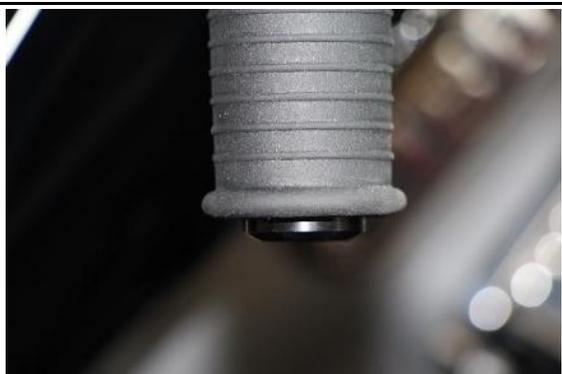


Push the reduction sleeves onto the handlebar on the left and right side.



Attach the handlebar extensions provided on both sides and fasten.

Caution: It is not possible to attach another handlebar end to the handlebar.



Push the switch units onto the handlebar until the handlebar extensions protrude approx. 2-4mm.



The final assembly of the operating elements requires the drilling of holes for the centring pins. To do this, align the operating elements and mark the positions for the centring pins (push onto the pins using grease). Now, centre-punch the marked position and drill a hole (diameter and depth are based on the centring pin).



Reconnect the plug connectors of the handlebar switches.

Assemble the handlebar switches.

Align the brake and clutch pump with the reduction sleeves and attach.



Attach the brake and clutch lines provided to the pumps and manifolds.

Tightening torque: 21 Nm

Caution: Always use new sealing rings.

To ensure a twist-free installation, the cable connections can be aligned once at the fitting.



Check with static brake that the brake lever can be pulled up to the handle and under no circumstances touches other parts.

After installing the Stahlflex lines and pumps, the complete system must be drained according to the manufacturer's installation instructions.



After the final assembly, check the freedom of movement of all brakelines and cables and fasten them only to such an extent that they are not bent, do not chafe and are tension-free in maximum steering angle and over the entire spring travel.



Fasten all screws with thread-locking fluid (medium strength) and the preset tightening torque.

Check the proper function of the electrical system.

4 Final check

- Make sure that all operating elements present on the handlebar are adequately positioned, even in maximum steering angle. The brake and clutch cylinders must be in an adequate operating position.
- Pay attention to the freedom of movement of the handlebar, its mounted parts and adequate steering angle to each side. The handlebar must be able to be moved easily from side to side. Check the free play of the throttle cable: In maximum steering angle to both sides and with the engine running, the motor speed must not change.
- After completing the work, check the firm fit, function and tightness of all components and screws. Make sure that there is sufficient brake fluid in the reservoir. Also check the front wheel's freewheel and the functionality of the brake system. Further, the function of the clutch, the throttle grip, the electric system and the anti-theft devices must be checked.
- Afterwards, a test drive must be carried out! After completion of the test drive, all screw connections must be re-checked for firm fit, tightness and all movable parts for adequate free travel. Re-test the front wheel's freewheel and check the brake system for overheating. Check the brake fluid level in the reservoir for significant changes.

