

BMW Motorrad

Workshop installation instructions

engine guard



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

Low-risk hazard. Non-avoidance can lead to slight or moderate injury.



WARNING

Medium-risk hazard. Non-avoidance can lead to fatal or severe injury.



DANGER

High-risk hazard. Non-avoidance leads to fatal or severe injury.



ATTENTION

Special notes and precautionary measures. Non-compliance can lead to damage to the vehicle or accessory and, consequently, to voiding of 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)

© 2016 Bayerische Motoren Werke Aktiengesellschaft
80788 Munich, Germany

Not to be reproduced by any means whatsoever, wholly or in part, without the written permission of BMW Motorrad, After Sales.

Printed in Germany.

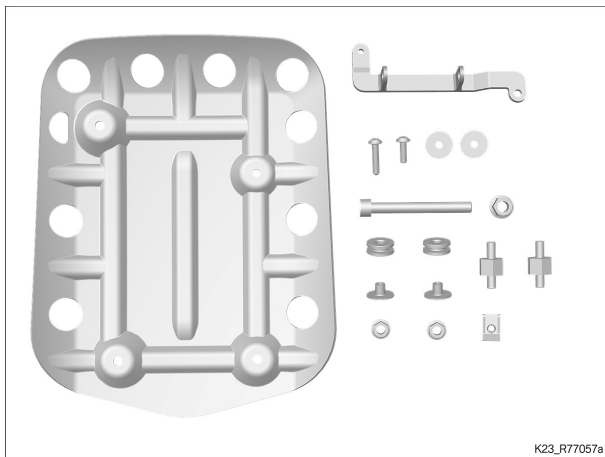
Subject to change without notice. Errors and omissions excepted.

All rights reserved.

engine guard

Requisite tools

- Torx bit
- Torque wrench



Scope of supply

- engine guard
- Holder
- Flanged oval-head screw M6 x 20
- Flanged oval-head screw M6 x 30
- Flat nut
- Cheese head screw, M10 x 90
- Hex nut, M10
- rubber grommet 2 of
- Washer 2 of
- Shouldered bushing 2 of
- Hex nut, M8 2 of
- Vibration damper M8 2 of

General instructions



ATTENTION

Vehicle not securely propped

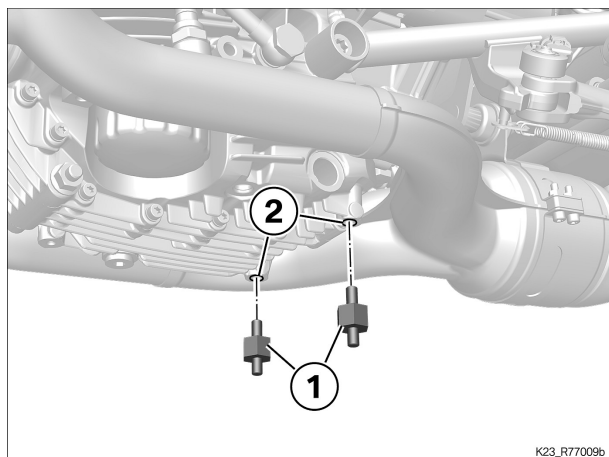
Risk of damage to parts if vehicle topples

- Prop the vehicle securely.

77 14 005 Install engine guard

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

1



► Install the vibration damper

- Install the vibration damper **(1)** in thread on engine housing **(2)**.

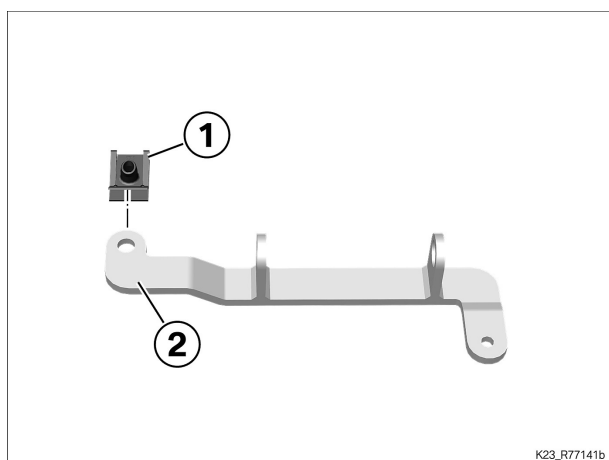


Tightening torques

Vibration damper on engine housing

M8	19 Nm	
----	-------	--

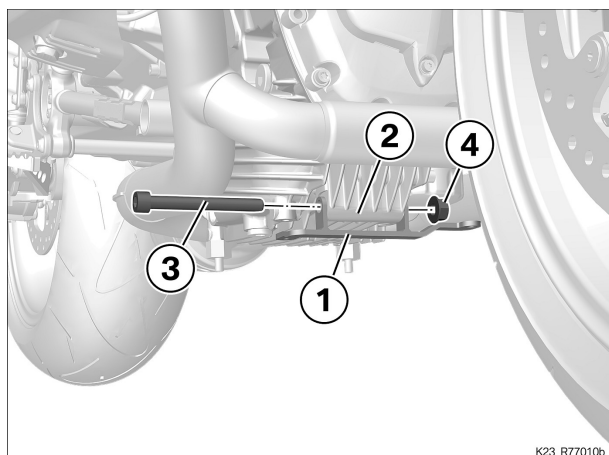
2



► Install the flat nut on the bracket

- Install flat nut **(1)** in holder **(2)**.

3

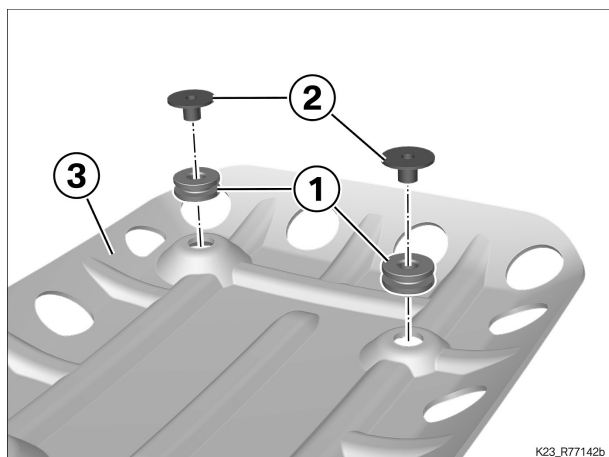


K23_R77010b

► Prepare bracket for overheating protection

- Position bracket (1) for the overheating protection on engine housing (2) and install screw (3) with nut (4) hand-tight.

4

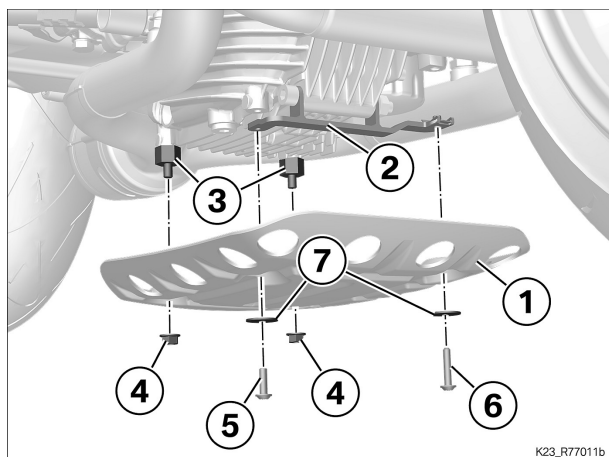


K23_R77142b

► Install the grommets and shouldered bushings

- Install grommets (1) and shouldered bushings (2) on the overheating protection (3).

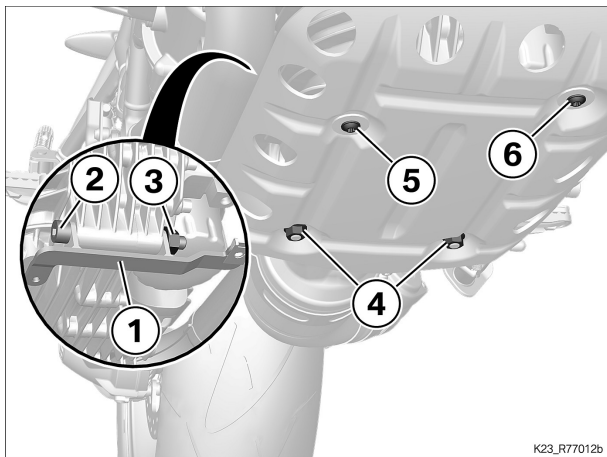
5



K23_R77011b

► Installing engine guard

- Position the overheating protection (1) on bracket (2) and vibration damper (3).
- Install nuts (4) and tighten until hand-tight.
- Install the short screw (5) and long screw (6) with washers (7) hand-tight.



- Align the bracket **(1)** and tighten the screw **(2)** with nut **(3)**.

Tightening torques		
Bracket for overheating protection on engine housing		
M10, Tighten the nut, counter-holding the bolt	38 Nm	

- Tighten nuts **(4)**.

Tightening torques		
Overheating protection on vibration damper		
M8	19 Nm	

- Tighten screws **(5)** and **(6)**.

Tightening torques		
Overheating protection on bracket at the front		
M6 x 20	8 Nm	
M6 x 30	8 Nm	

6

► 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.
 - The fuel system is free of leaks.
 - The lights and signalling equipment are fully operational and the vehicle is roadworthy.
 - The brake pads of the front and rear brakes are bedded against the brake discs.

▷ Function test, engine start suppression

Check

- Select neutral.
 - » Neutral indicator light "N" lights up.
- Select a gear.
 - » Neutral indicator 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.



Always comply with the regulations regarding approval in the country of use.