

RIDER'S MANUAL (US MODEL) CE 04



MAKE LIFE A RIDE

Vehicle data	
Model	
	_
Vehicle identification number	
	_
Color number	
	-
First registration	
	-
License plate	
	-
Retailer data	
Contact in Service	
	-
Ms./Mr.	
	-
Phone number	
	-
Retailer's address/Phone (com	pany stamp)

YOUR BMW.

We are pleased that you have chosen a BMW Motorrad vehicle and welcome you to the family of BMW riders. Familiarize yourself with your new vehicle so that you can ride safely and confidently in all traffic situations.

About these operating instructions

Read this rider's manual before starting your new BMW. It contains important notes about operating the vehicle that will enable you to make full use of the technical assets of your BMW.

You will also obtain preventive maintenance and care instructions, which are beneficial to operating and road safety and help retain the value of your vehicle as much as possible.

If you should decide to sell your BMW one day, please remember to hand over this rider's manual as well. They are an important part of your vehicle.

We wish you many miles of safe and enjoyable riding with your RMW

BMW Motorrad.

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GENERAL INSTRUCTIONS



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4 GENERAL INSTRUCTIONS

QUICK & EASY REFERENCE

This rider's manual has been designed to provide guick and efficient orientation. The guickest way for you to find information on specific topics is to consult the comprehensive index at the end of the rider's manual. If you would like to start with a quick overview of vour electric scooter, this information has been provided in chapter 2. All preventive maintenance and repair procedures carried out on your motorcycle will be documented in the "Service" chapter. Documentation of the maintenance work performed is a prerequisite for generous treatment of claims.



Warning signs on vehicle parts

The warning signs on vehicle parts inform you that the improper use of high-voltage technology or high-voltage components could result in serious injury as a result of electric shock.

ABBREVIATIONS AND SYMBOLS

CAUTION Hazard with low risk. Failure to avoid this hazard can result in minor or moderate injury.

WARNING Hazard with moderate risk. Failure to avoid this hazard can result in death or serious injury.

DANGER Hazard with high risk. Failure to avoid this hazard results in death or serious injury.

ATTENTION Special instructions and precautionary measures. Noncompliance can cause damage to the vehicle or accessories and warranty claims may be denied as a result

Special information on operating and inspecting your motorcycle as well as maintenance and adjustment procedures.

- Instruction.
- » Result of a repair procedure.

Reference to a page with more detailed information

Indicates the end of accessory or equipment-dependent information.

mation.

Tightening torque.

Technical data.

NV National-market version.

OE Optional equipment. BMW Motorrad optional equipment is already completely installed during motorcycle production.

OA Optional accessories.
BMW Motorrad
optional accessories
can be purchased
and retrofitted at
your authorized
BMW Motorrad dealer.

ABS Anti-Lock Brake System.

ASC Automatic Stability Control.

DTC Dynamic Traction Control.

DWA Anti-theft alarm

EWS Electronic immobilizer.

TPC Tire Pressure Control

(TPC).

RSC Recuperation Stability

Control

EQUIPMENT

When you ordered your E-Scooter, you chose various custom equipment items. This Rider's Manual describes optional equipment (OE) offered by BMW and selected optional accessories (OA). This explains why the manual may also contain descriptions of equipment which you have not ordered. Please note, too, that your vehicle might not be exactly as illustrated in this manual on account of country-specific differences.

If your E-Scooter was supplied with equipment not described in this rider's manual, you will find these features described in a separate rider's manual.

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TECHNICAL DATA

All dimensions, weights and performance data contained in this rider's manual refer to the German Institute for Standardization i.e. DIN (Deutsches Institut für Normung e. V.) and comply with their tolerance specifications.

The technical data and specifications in this rider's manual serve as points of reference. The vehicle-specific data may vary, for instance due to the selected optional equipment, national-market version or country-specific measuring procedures. Detailed values can be obtained from the registration documents or requested from vour authorized BMW Motorrad dealer or other qualified service partner or repair shop. The information on the vehicle documents always takes precedence over the information in this rider's manual.

CURRENTNESS OF THIS MANUAL

The high BMW E-Scooter safety and quality level is maintained by consistent, ongoing development efforts in the design, equipment, and

accessories. For this reason, some aspects of your vehicle may vary from the descriptions in this rider's manual. In addition, BMW Motorrad cannot guarantee the total absence of errors. We hope you will appreciate that no claims can be recognized that are based on the data, illustrations or descriptions in this manual.

ADDITIONAL SOURCES OF INFORMATION

Authorized BMW Motorrad dealer

Your authorized BMW Motorrad dealer is always happy to answer any of your questions.

Internet

The rider's manual for your vehicle, the Owner's Manual and installation instructions for optional accessories and general BMW Motorrad information related to the technology or other features are available at bmw-motorrad.com/manuals.

CERTIFICATES AND OPERAT- ING PERMITS

The certificates for the vehicle and the official operating permits for possible accessories are available at

bmw-motorrad.com/certification.

DATA MEMORY

General information

Control units are installed in the vehicle. Control units process data received from vehicle sensors, self-generated data or data exchanged between control units, for example. Some control units are required for safe vehicle operation or provide riding assistance, such as rider assistance systems. Control units also make comfort and infotainment functions possible

Information about the stored or exchanged data can be obtained from the vehicle manufacturer, such as in the form of a separate booklet.

Personal references

Every vehicle is marked with a unique vehicle identification number. Depending on the country, the vehicle owner can be identified using the vehicle identification number and license plate and with the help of the relevant authorities. There are also other ways to trace data obtained from the vehicle back to the rider or vehicle owner, such as via the ConnectedDrive Account that was used.

Data privacy laws

In accordance with applicable data privacy laws, vehicle users have certain rights over the vehicle manufacturer or company that collects or processes personal data.

Vehicle users have the right to obtain comprehensive information without charge from the locations that store the vehicle user's personal data.

These locations may be:

- -The vehicle manufacturer
- -Qualified service partners
- -Repair shops
- -Service providers

Vehicle users may request information about the type of personal data that is stored, the purpose for which the data will be used and the source of the data. This information can only be obtained by a registered owner or a person with written

8 GENERAL INSTRUCTIONS

proof authorizing use of the vehicle.

The right to information also includes information related to data transmitted to other companies or locations.

The vehicle manufacturer's website contains the appropriate privacy policy notices.

The privacy policy notices contain information on the right to delete or correct data. The vehicle manufacturer also provides the manufacturer contact information and the contact information of the data security officer on the Internet.

The vehicle owner can have an authorized BMW Motorrad dealer or other qualified service partner or repair shop read out the data stored in the vehicle for a fee if required.

The vehicle data is read out via the vehicle's legally mandated diagnostic socket.

Operating data in the vehicle

Control units process data so that the vehicle can run.

Examples of this include:

Status messages from the vehicle and its individual components, such as wheel speed, wheel centrifugal velocity and deceleration

 Ambient conditions, such as temperature

The data is processed only in the vehicle itself and is usually temporary. The data is not stored beyond the period in which the vehicle is operating. Electronic components such as control units contain components for storing technical information. This may be information about the vehicle's condition, component load, events or faults stored temporarily or permanently.

This information generally documents the condition of a component, module, system or the surrounding area; for example:

- Operating states of system components, such as fill levels and tire pressure
- Malfunctions and faults in key system components, such as lights and brakes
- Vehicle responses in specific riding situations, such as the activation of riding dynamics systems
- Information about events causing damage to the vehicle

The data is necessary for providing control unit functions. In addition, it is used by the vehicle manufacturer to detect and eliminate malfunctions as well as to optimize vehicle func-

The majority of this data is temporary and is processed only within the vehicle itself. Only a small amount of event-driven data is stored in the event data recorder and fault memory.

When a vehicle is serviced, such as for repairs, servicing processes, warranty cases and quality assurance measures, this technical information can be read out from the vehicle together with the vehicle identification number.

The information can be read out by an authorized BMW Motorrad dealer or other qualified service partner or repair shop. The vehicle's legally mandated diagnostic socket is used to read out the data.

The data is collected, processed and used by the respective service network locations. The data documents the vehicle's technical states and helps with fault finding, compliance with warranty obligations and quality improvements.

The manufacturer also has product monitoring obligations arising from product liability law. The vehicle manufacturer requires technical data from the vehicle in order to fulfill these obligations. The data from the vehicle can also be used to verify customer warranty and guarantee claims. The fault memory and event data recorder in the vehicle can be reset by an authorized BMW Motorrad dealer or other qualified service partner or repair shop as part of a repair or servicina.

Data input and data transfer in the vehicle

General information

Depending on the equipment, comfort settings and individualized settings in the vehicle can be saved and changed or reset at any time.

It is possible to introduce data into the vehicle entertainment and communication system via a smartphone, for instance. Depending on the individual equipment, this includes:

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- Multimedia data, such as music for playback
- Address book data for use in combination with a communication system or integrated navigation system
- -Entered destinations
- Data about the use of Internet services. This data can be stored locally in the vehicle or is on a device connected to the vehicle, such as a smartphone, USB stick or MP3 player. If this data is saved in the vehicle, it can be deleted at any time.

This data is transmitted to third parties only upon personal request as part of the use of online services. The data transmitted depends on the selected settings when using the services.

Incorporating mobile end devices

Depending on the equipment, mobile end devices connected to the vehicle, such as smartphones, are controlled using the vehicle's operating elements.

This enables audio and visual output from mobile end devices through the multimedia system. At the same time, certain information is transmitted to the mobile end device. This includes, for instance, position data and other general vehicle information, depending on the type of incorporation, and makes it possible to optimize the use of selected apps, such as those for navigation or audio playback.

The way the data is processed further is determined by the provider of the particular app used. The range of possible settings depends on the particular app and the operating system of the mobile end device.

Services

General information

If the vehicle has a mobile phone connection, this connection makes it possible to exchange data between the vehicle and other systems. The mobile phone connection is made possible through the vehicle's transmitter and receiver or via personally integrated mobile end devices such as smartphones. Online functions, as they are called, are used over this mobile phone connection. These include online services and apps provided

by the vehicle manufacturer or other providers.

Vehicle manufacturer services

In the case of the vehicle manufacturer's online services, the particular functions are described at the appropriate location, such as in the rider's manual or on the manufacturer's website. The relevant legal information on data privacy is also provided there. Personal data may be used in order to provide online services. The data is exchanged over a secure connection, i.e. with the vehicle manufacturer's IT systems which are intended for this purpose.

Any collection, processing and use of personal data that goes beyond the provision of services take place only as permitted by law, on the basis of a contractual agreement or as a result of consent. It is also possible to have the entire data connection activated or deactivated. This is not the case for legally prescribed functions.

Services of other providers

When using the online services of other providers, these services are subject to the responsibility and the term of data protection and use of the respective provider. The vehicle manufacturer has no control over the content exchanged via these services. Information about the type, scope and purpose of collecting and using personal data as part of third-party services can be obtained from the particular service provider.

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14 OVERVIEWS

OVERALL VIEW, LEFT SIDE



- 1 Behind the front-fairing panel:
 Diagnostic connector (→ 166)
 Headlight range adjustment (→ 102)
 Coolant tank (→ 155)
 Onboard tool kit,
 Torx T25 (→ 151)
- 2 Brake fluid reservoir for the rear wheel brake (mm 153)
- 3 Passenger grab handle
- 4 Adjust spring preload on the suspension strut (103)
- 5 Passenger footrest

6 Rider footboard

OVERALL VIEW, RIGHT SIDE



- 1 Passenger grab handle
- 2 Storage compartment (i 69)
- 3 Brake fluid reservoir for the front wheel brake (IIII) 153)
- Vehicle identification number (main frame, right front bottom) Nameplate (frame, right front, at the steering head)
- 6 Rider footboard
- 7 12 V socket

- 9 Passenger footrest
- 10 Behind the side trim panel:
 Battery (■ 160)
 Fuses (■ 164)

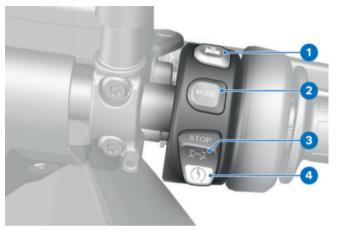
16 OVERVIEWS

MULTIFUNCTION SWITCH, LEFT



- 1 High beams and headlight flasher (→ 62)
- 2 Hazard warning system (→ 63)
- 3 Programmable memory buttons (■ 83)
- **4** Reversing (**→** 61)
- **5** Turn signals (63)
- 6 Horn
- **7** MENU rocker button
- 8 Multi-Controller

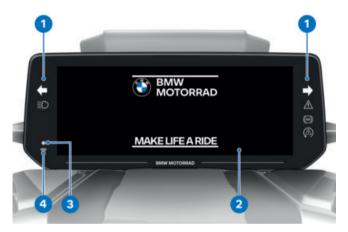
MULTIFUNCTION SWITCH, RIGHT



- **1** Heating (**→** 68)
- 2 Riding mode (64)
- 3 Emergency-off switch (→ 60)
- 4 Starter button (*** 127)

18 OVERVIEWS

INSTRUMENT CLUSTER



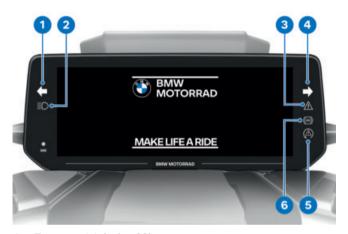
- 1 Indicator and warning lights (■ 22)
- 2 TFT display (→→ 23) (→→ 24)
- 3 DWA LED
 - with anti-theft alarm system (DWA) OE
 Alarm signal (→ 65)
 Indicator light for radio-operated key
 - Turn on standby mode. (

 → 56)
- 4 Photodiode (for adjusting brightness of instrument lighting)



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INDICATOR AND WARNING LIGHTS



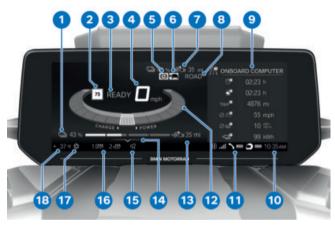
- 1 Turn signal, left (63)
- 2 High beams (■ 62)
- General warning light (

 → 26)
- 4 Turn signal, right (→ 63)
- 5 ASC (I 44)

 —with riding modes ProOE

 DTC (I 44)
- 6 ABS (50)

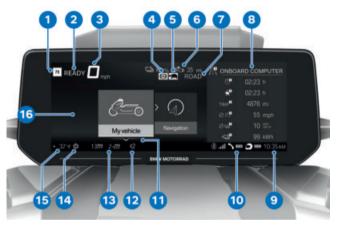
TFT DISPLAY IN PURE RIDE VIEW



- 1 Battery state of charge (■ 84)
- **2** Speed Limit Info (■ 82)
- 3 Ride readiness indicator (IIII 127)
- 4 Speedometer
- Energy recovery limitation (83)
- 6 Power limitation (■ 83)
- **7** Rider info. status line (■ 81)
- 8 Riding mode (*** 64)
- 9 Split screen (*** 84)
- 10 Clock (** 85)
- 11 Connection status (■ 88)

- 12 Drive display (83)
- 13 Range (*** 84)
- 14 Operating assistance
- **15** Muting (**→** 85)
- **16** Heating (→ 68)
- **17** External temperature warning (■ 34)
- **18** Outside temperature

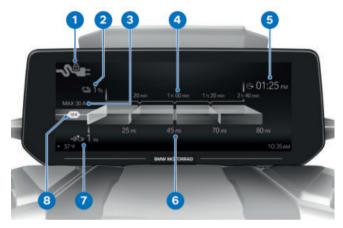
TFT DISPLAY IN THE MENU VIEW



- 1 Speed Limit Info (*** 82)
- 2 Ride readiness indicator Turn on ride readiness. (→ 127)
- 3 Speedometer
- 5 Power limitation (*** 83)
- 6 Rider info. status line (*** 81)
- **7** Riding mode (**→** 64)
- 8 Split screen (*** 84)
- 9 Clock (*** 85)
- 10 Connection status (■ 88)
- 11 Operating assistance

- **12** Muting (******* 85)
- **13** Heating (**→** 68)
- **14** External temperature warning (■ 34)
- 15 Outside temperature
- 16 Menu area

TFT DISPLAY IN CHARGE VIEW



- 1 Status of charging plug
- 2 State of charge
- 3 Maximum available charge current level
- 4 Charging time prediction
- **5** Target time for 100% charging process
- 6 Range prediction
- **7** Range
- 8 Active charging current limit

INDICATOR LIGHTS

Layout

Warnings are indicated by the corresponding warning light. Warnings are indicated by the general warning light in combination with a dialog in the TFT display. The general warning light lights up in either yellow or red, depending on the urgency of the warning.

The general warning light lights up for whichever warning is most urgent at the current time.

You will find an overview of the potential warnings on the following pages.



Check Control display

The messages in the display are shown differently in the display. Different colors and characters are used depending on the priority:

- -Green CHECK OK 1: No message, optimal values.
- -White circle with lowercase "i" **2**: Information.
- -Yellow warning triangle **3**: Warning, value not optimal.
- Red warning triangle 3:
 Warning, value critical



Value display

The icons **4** are displayed differently. Different colors are used depending on the assessment of value. Instead of numerical values **8** with units **7**, texts **6** are also displayed:

Color of the icon

- Green: (OK) Current value is optimal.
- -Blue: (Cold!) Current temperature is low.
- -Yellow: (Low!/High!) Current value is too low or too high.
- -Red: (Hot!/High!) Current temperature or value is too high.

-White: (---) There is no valid value. Instead of the value, dashes 5 are displayed.

The evaluation of the individual values is possible in part only after a certain riding duration or speed. If a measured value cannot yet be displayed due to unfulfilled measurement conditions, dashes are displayed instead as placeholders. As long as no valid measured value is available, no evaluation is carried out in the form of a colored symbol.



Check Control dialog

Messages are output as Check Control dialog **1**.

-If several Check Control messages of the same priority are present, the messages change in the order in which they occur, until they are acknowledged.

- If the icon 2 is active, you can acknowledge this by tilting the Multi-Controller to the left.
- Check Control messages are dynamically added to the screens in the My vehicle menu as additional tabs (™ 79). You can go back to the message as long as the fault is present.

Overview of warning indicators			
Indicator and warning lights	Display text	Meaning	
	is displayed.	External temperature warning (*** 34)	
is lit yellow.	Remote key not in range.	Radio-operated key outside reception range (im 34)	
is lit yellow.	Keyless Ride failure!	Keyless Ride mal- function (■ 35)	
is lit yellow.	Remote key battery at 50%. Remote key battery low.	Replacing the battery of the radio-operated key	
is lit yellow.	The faulty light source is displayed.	Faulty light source (35)	
is lit yellow.	Light control failure!	Light control unit failed (■ 36)	
	Anti-theft alarm batt. capacity low.	Anti-theft alarm system battery is weak (37)	
	Anti-theft alarm battery discharged.	Anti-theft alarm system battery discharged (im 37)	
	Anti-theft alarm system failure.	DWA malfunction (IIII 37)	
is lit yellow.	No communication with drive electronics.	Communication fault in the EME (IIII) 37)	

Indicator and warning lights	Display text	Meaning
lights up.		Communication fault in the EME (IIII 37)
is lit yellow.	Insulation fault in high-voltage system.	Insulation fault in the high-voltage system (*** 38)
is lit red.	Insulation fault in high-voltage system.	Severe insulation fault in the high-voltage system (*** 38)
	Charge level low.	Low state of charge (*** 38)
is lit yellow.	Charge level critical.	Critical state of charge (■ 39)
	ingrits up.	
is lit yellow.	Fault in E-drive: Output reduced.	Fault in the electric drive: Output reduced (IIII)
	lights up.	
is lit yellow.	Fault in electric drive.	High-voltage system cannot be switched on in addition or switched off (*** 39)
is lit yellow.	Fault in the electric drive.	Fault in electric drive (** 39)
is lit yellow.	Connector lock faulty.	Connector fastener fault (*** 40)

Indicator and warning lights	Display text	Meaning
blinks red.	Serious fault in electric drive!	Severe fault in electric drive (*** 40)
is lit yellow.	Drive system too hot: Power reduced.	Drive too hot (iiii) 40)
is lit yellow.	Charging interruption, charg.sys. overheated.	Charging system overheated (IIII 41)
is lit yellow.	Energy recovery limited.	Energy recovery limited (■ 41)
is lit yellow.	High-voltage safety plug disconnected.	High-voltage safety plug disconnected (IIIII 41)
	Chg.target not reached. Chg.power reduced.	Reduced charging capacity (IIII 41)
is lit yellow.	Fault in the charging infrastructure.	Fault in charging infrastructure (*** 42)
is lit yellow.	Fault in charging sys.	Fault in the charging system (*** 42)
is lit yellow.	On-board bat- tery state.	State of vehicle battery (12 V battery) (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

Indicator and warning lights	Display text	Meaning
is lit yellow.	is displayed in yellow.	Electrical system voltage low (IIII) 43)
	Vehicle voltage low.	
is lit yellow.	is displayed in yellow.	Voltage of the vehicle electrical system is critical (im 43)
	Vehicle voltage critical!	
blinks rapidly.		ASC/DTC intervention (■ 44)
is lit yellow.	Traction control limited.	Limited ASC/ DTC availability
lights up.		(→ 44)
is lit yellow.	Traction control systems failed!	ASC/DTC mal- function (IIII 45)
lights up.		_
is lit yellow.	is displayed in yellow.	Tire pressure is the limit range of approved toler- ance (************************************
	Tire pressure not at set-point.	
blinks red.	is displayed in red.	Tire pressure is outside the approved tolerance range (IIII 47)
	Tire pressure not at set-point.	
	Tire Press. Monitor. Loss	_
	of pressure.	

Indicator and warning lights	Display text	Meaning
	<u></u>	Transmission fault (
is lit yellow.	<u></u>	Sensor faulty or system fault (Ⅲ► 48)
is lit yellow.	TPM sensors battery low.	Battery of the tire pressure sensor weak (*** 49)
is lit yellow.	Tire Press. Monitor failure!	Tire Pressure Monitor (TPM) malfunction (IIII 49)
is lit yellow.	Side stand mon- itoring defec- tive.	Malfunction of side stand monitor (49)
flashes regularly.		ABS self-diagnosis not completed
is lit yellow.	Limited ABS availability!	ABS fault (■ 50)
lights up.		
is lit yellow.	ABS failure!	ABS failure (
lights up.		
is lit yellow.	ABS Pro fail- ure!	ABS Pro failure (■ 51)
lights up.		
	is displayed in white.	Service due (

Indicator and warning lights	Display text	Meaning
	Service due!	Service due (
is lit yellow.	is displayed in yellow.	Service appoint- ment overdue
	Service over-	(■ 52)
	due!	

Outside temperature

The outside temperature is displayed in the status line of the TFT display.

Engine heat can lead to spurious measurement readings of the outside temperature when the vehicle is stationary. If the effect of the motor heat becomes excessive. dashes are temporarily displayed instead of the value



If the outside temperature falls below the limit

value of Approx. 37 °F (Approx. 3 °C), there is a risk of black ice formation

The first time the temperature drops below this value, the outside temperature display and ice crystal symbol will blink in the status line of the TFT display.

External temperature warning



is displayed.

Possible cause:

The outside temperature measured on the vehicle is less than:

Approx. 37 °F (Approx. 3 °C)



WARNING

Risk of black ice, even above Approx. 37 °F (Approx. 3 °C)

Risk of accident

- At a low outside temperature, icy conditions must expected on bridges and in shady road areas.
- Use caution when riding.

Radio-operated key outside reception range



is lit vellow.

Remote key not in range. It is not possible to turn on the ignition again.

Possible cause:

The communication between the radio-operated key and the engine electronics is faulty.

- · Check the battery in the radio-operated key.
- Replace the battery of the radio-operated key. (59)
- Use the spare key for further travel.
- Battery of radio-operated key is dead or radio-operated key is lost. (*** 58)
- If the Check Control dialog appears while riding, remain

- calm. You can continue riding: the ride readiness will not turn off.
- Have any faulty radio-operated keys replaced by a BMW Motorrad retailer.

Keyless Ride malfunction



Keyless Ride failure! Do not stop engine. Engine restart may not be possible.

Possible cause:

The Keyless Ride control unit has diagnosed a communication fault.

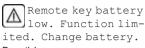
- Do not shut off the engine. Visit a repair shop immediately if possible, ideally an authorized BMW Motorrad dealer.
- » Engine start can no longer be turned on using Keyless Ride.
- » DWA can no longer be activated.

Replacing the battery of the radio-operated key



is lit yellow.

Remote key battery at 50%. No functional limitation.



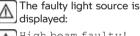
Possible cause:

- The battery for the radiooperated key is no longer charged to full capacity. Operation of the radio-operated key is only ensured for a limited time.
- Replace the battery of the radio-operated key. (59)

Faulty light source



is lit yellow.

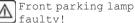


High beam faulty!

Turn indicator front left faulty! or Turn indicator front right faulty!



Low beam faulty!





Tail light faulty!



Brake light faulty!



Rear left turn signal faultv! or Rear right turn signal faultv!



License plate light faultv!

-Have checked by a specialist workshop.



WARNING

Overlooking the vehicle in traffic due to a defective light source on the vehicle Safety risk

 Replace defective bulbs as soon as possible: it is best always to carry a complete set of spare bulbs on the motorcycle.

Possible cause:

One or more light sources are faultv.

- Locate defective bulb with visual check.
- Have the LED light source replaced in full; for details please contact a specialist workshop, preferably an authorized RMW Motorrad retailer

Light control unit failed



is lit yellow.

Light control failure! Have checked by a specialist workshop.



WARNING

Overlooking the vehicle in road traffic due to failure of the vehicle lighting

Safety risk

 Have the malfunction corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer.

The vehicle lighting has failed partially or completely. Possible cause:

The light control unit has diagnosed a communication fault.

 Have the malfunction corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer

Anti-theft alarm system battery is weak

-with anti-theft alarm system (DWA) OE

Anti-theft alarm batt. capacity low. No limitations. Arrange an appointment at a specialist workshop.

This fault message is only shown for a short time immediately following the Pre-Ride-Check.

Possible cause:

The DWA battery no longer has its full capacity. The operation of the anti-theft alarm system is only ensured for a limited time with the vehicle battery disconnected.

 Contact a specialist workshop, preferably an authorized BMW Motorrad retailer.

Anti-theft alarm system battery discharged

-with anti-theft alarm system (DWA) OE

Anti-theft alarm battery discharged. No independent alarm. Arrange an appointment at a specialist workshop.

This fault message is only shown for a short time immediately following the Pre-Ride-Check.

Possible cause:

The anti-theft alarm system battery is completely discharged. Operation of the anti-theft alarm system is no longer ensured when the vehicle battery is disconnected.

 Contact a specialist workshop, preferably an authorized BMW Motorrad retailer.

DWA malfunction

Anti-theft alarm system failure. Have checked by a specialist workshop.

Possible cause:

The DWA control unit has diagnosed a communication fault.

- Contact a specialist workshop, preferably an authorized BMW Motorrad retailer.
- » DWA can no longer be activated or deactivated.
- » False alarm possible.

Communication fault in the EME



is lit yellow.



lights up.

No communication with drive electronics. Multiple systems affected. Have vehicle checked by a specialist workshop.

Possible cause:

The electrical machine electronics have diagnosed a communication fault.

 Have the malfunction corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer

Insulation fault in the highvoltage system



is lit yellow.

Insulation fault in high-voltage system. Mod. continuation possible. Drive carefully to the nearest workshop.

Possible cause:

An isolation fault has been detected. A high-voltage cable or a high-voltage component has been damaged.

 Have the fault rectified as soon as possible by an authorized BMW Motorrad dealer.

Severe insulation fault in the high-voltage system



is lit red.

Insulation fault in high-voltage system. New start after engine stop not possible. Visit workshop immediately.

Possible cause:

A severe insulation fault has been detected. A high-voltage cable or a high-voltage component has been damaged. After the end of the ride, the vehicle cannot be restarted. Damage to the vehicle can be the result.

Contact a repair shop immediately, preferably an authorized BMW Motorrad dealer.

Low state of charge



Charge level low. Go to charging station.

Possible cause:

The state of charge of the vehicle is low.

 Ride up to the charging station and charge the vehicle.

Critical state of charge



is lit yellow.



Charge level critical. Power reduced. Go to charging station.



lights up.



WARNING

Unusual handling when the electric drive is in emergency operation

Accident hazard

 Avoid rapid acceleration and passing maneuvers.

Fault in the electric drive: Output reduced



is lit yellow.

Fault in E-drive: Output reduced. Mod. continuation possible. Drive carefully to the nearest workshop.



lights up.



WARNING

Unusual handling when the electric drive is in emergency operation

Accident hazard

 Avoid rapid acceleration and passing maneuvers.

Contact a repair shop, preferably an authorized BMW Motorrad dealer

High-voltage system cannot be switched on in addition or switched off



is lit yellow.

Fault in electric drive. Have vehicle checked by a specialist workshop.

Possible cause:

The high-voltage system cannot be switched on in addition or switched off

 Contact a repair shop, preferably an authorized BMW Motorrad dealer

Fault in electric drive



is lit yellow.

Fault in the electricdrive. Limited onward journey possible.

Drive carefully to the nearest workshop.

Contact a repair shop, preferably an authorized BMW Motorrad dealer.

Connector fastener fault



is lit yellow.

Connector lock faulty. Reconnect cable. If this happens again, contact a specialist workshop.

Possible cause:

Charging cable cannot be unlocked.

Possible cause:

Charging cable cannot be locked.

- Plug in charging cable all the way.
- If the fault persists, contact a repair shop, preferably an authorized BMW Motorrad dealer.

Severe fault in electric drive



blinks red.

Serious fault in electric drive!
Stop immediately! Have

vehicle checked by a specialist workshop.

Possible cause:

A severe fault was detected in the electric drive. Irregular vehicle handling may occur. Continued riding can result in damage to the vehicle.

- Stop immediately.
- Contact a repair shop, preferably an authorized BMW Motorrad dealer.

Drive too hot



is lit yellow.

Drive system too hot: Power reduced. Limited onward journey possible.

Possible cause:

Coolant level is too low.

Check the coolant level.(IIII) 155)

If coolant level is too low:

 Allow the engine to cool down. Top up coolant. Have the cooling system checked at a repair shop, preferably by an authorized BMW Motorrad dealer.

Possible cause:

The temperature sensor has detected a high temperature in the engine.

- Ride in the partial load range if possible to cool the engine.
- If the engine temperature is more frequently too high. have the fault rectified as quickly as possible by a repair shop, preferably an authorized BMW Motorrad retailer.

Charging system overheated



is lit vellow.

Charging interruption, charg.sys. overheated. Check coolant level. If this happens again, have checked by workshop.

Possible cause:

Coolant level is too low

 Check the coolant level. (155)

If coolant level is too low:

 Allow the engine to cool down. Top up coolant. Have the cooling system checked at a repair shop, preferably by an authorized BMW Motorrad dealer.

Energy recovery limited



is lit yellow.

Energy recovery limited. Lim.onward journey possible. Drive carefully to the nearest specialist workshop.



lights up.

Contact a repair shop, preferably an authorized BMW Motorrad dealer

High-voltage safety plug disconnected



is lit yellow.

High-voltage safety plug disconnected. Not ready to ride. Have vehicle checked by a specialist workshop.

Contact a repair shop, preferably an authorized BMW Motorrad dealer.

Reduced charging capacity

Chq.target not reached. Chg.power reduced. Check charge level. More information in the Owner's Manual.

Possible cause:

The vehicle does not charge at full power.

 Check temperature, charging infrastructure and charging cable.

Possible cause:

The charging process was canceled at a state of charge below 90%.

Check state of charge.

Fault in charging infrastructure



is lit yellow.

Fault in the charging infrastructure. Check the charging cable and mains connection or use another mains connection.

Possible cause:

Due to a fault in the charging infrastructure, the charging operation has been aborted or the charging operation could not be started.

 Check charging cable and power connection; use different power connection if available

Fault in the charging system



is lit yellow.

Fault in charging sys. Charging not possible. Drive carefully to nearest specialist workshop.

Possible cause:

Due to a fault in the vehicle, the charging process has been aborted or could not be started.

- Turn on standby mode.
- Detach the charging cable.
- · Wait two minutes.
- » Vehicle has gone to sleep.
- Turn off standby mode.
- Plug in charging cable.
- » New attempt at charging operation is started.
- If this occurs again, contact a repair shop, preferably an authorized BMW Motorrad dealer.

Possible cause:

If the fault occurs while the vehicle is in motion: The DC/DC converter is faulty; the 12 V battery cannot be recharged.

 Have the malfunction corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer. Continued riding is possible until the battery is completely discharged, however it is not recommended.

State of vehicle battery (12 V battery)



is lit yellow.

On-board battery state. No restrictions. Have battery checked by a specialist workshop.

Possible cause:

The vehicle battery cannot sustain the voltage any longer and should be replaced as soon as possible.

 Contact a repair shop, preferably an authorized BMW Motorrad dealer.

Electrical system voltage low



is lit yellow.



is displayed in yellow.

Vehicle voltage low. Switch off unneeded consumers.

Possible cause:

Electrical loads with high electrical consumption, e.g. heating vests, are in operation; too many electrical loads are in operation at the same time, or the battery is defective.

- Switch off electrical loads that are not needed or disconnect them from the electrical system.
- If the fault persists or occurs without any electrical loads connected, have the fault corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer.

Voltage of the vehicle electrical system is critical



is lit yellow.



is displayed in yellow.

Vehicle voltage critical! Consumers were switched off Check battery condition. or Battery is not charged. Check battery condition.

12 V battery no longer has sufficient voltage to supply all components.

Possible cause:

Electrical loads with high electrical consumption, e.g. heating vests, are in operation; too many electrical loads are in operation at the same time, or the battery is defective.

- Switch off electrical loads that are not needed or disconnect them from the electrical system.
- If the fault persists or occurs without any electrical loads connected, have the fault corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer

ASC/DTC intervention



blinks rapidly.

Possible cause:

ASC/DTC has detected instability at the rear wheel and responded by reducing the torque.

The indicator and warning light flashes longer than the ASC/DTC intervention lasts. This provides the rider with visual feedback for the control action that was taken even after the critical riding situation has passed.

 You may continue riding. Use caution when riding.

Limited ASC/DTC availability



is lit yellow.



lights up.

Traction control limited. Onward journey possible. Ride carefully to next specialist workshop.

Possible cause:

The engine control unit has detected a ASC/DTC fault.



ATTENTION

Damage to components

Damage to sensors, for example, with the resultant malfunctions

- Do not carry along any objects under the rider's or passenger's seat.
- Secure vehicle tools.
- Do not damage the angular rate sensor.
- It must be noted that only limited ASC/DTC function is available.
- You may continue riding. Observe additional information

- on situations that can lead to a ASC/DTC fault (*** 139).
- Have the malfunction corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer.

ASC/DTC malfunction



is lit yellow.



lights up.

Traction control systems failed! Limited onward journey possible. Drive carefully to the nearest workshop.

Possible cause:

The engine control unit has detected a ASC/DTC fault.



ATTENTION

Damage to components

Damage to sensors, for example, with the resultant malfunctions

- Do not carry along any objects under the rider's or passenger's seat.
- Secure vehicle tools.
- Do not damage the angular rate sensor.

- It must be noted that the ASC/DTC function is not available at all or is limited.
- You may continue riding. Observe additional information on situations that can lead to a ASC/DTC fault (material).
- Have the malfunction corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer.

Tire pressure

-with tire pressure monitor (TPM) OE

In addition to the MY VEHICLE menu screen and the Check Control messages, there is also the TIRE PRESSURE screen to display the tire pressures:



The values on the left refer to the front wheel, and the values on the right refer to the rear wheel

The pressure differential is indicated by the current and setpoint tire pressure.

Immediately after standby mode is turned on, only dashes are displayed. The transmission of the tire pressure values does not begin until the following minimum speed is exceeded for the first time:

RDC sensor is not active

min 19 mph (min 30 km/h) (The RDC sensor transmits its signal to the vehicle only once the minimum speed has been exceeded.)

The tire pressures are shown in the TFT display with temperature compensation and are always based on the following tire air temperature:

68 °F (20 °C)

If the tire icon appears yellow or red at the same time, the display is a warning. The pressure differential is highlighted with an exclamation mark of the same color.

If the value in question is within the limit range of the permitted tolerance, the general warning light also lights up yellow.

If the determined tire pressure is outside the permitted tolerance, the general warning light blinks red.

For more information about the BMW Motorrad TPM, see the "Technology in detail" chapter starting on page (144).

Tire pressure is the limit range of approved tolerance



is lit yellow.



is displayed in yellow.

Tire pressure not at setpoint. Check tire pressure.

Possible cause:

The measured tire pressure is within the limit range of the permissible tolerance.

- Correct the tire pressure.
- Before adjusting the tire pressure, check the information on temperature compensation and tire pressure adjustment in the chapter "Technology in detail":

- -with tire pressure monitor (TPM) OE
- » Temperature compensation (145)
- -with tire pressure monitor (TPM) OE
- » Tire pressure adjustment (→ 145)
- The target tire pressures can be found in the following locations:
- On the back cover of the rider's manual
- -Instrument cluster in the TIRE
 PRESSURE view
- Tire pressure table

Tire pressure is outside the approved tolerance range



blinks red.



is displayed in red.

Tire pressure not at setpoint. Stop immediately! Check tire pressure.

Tire Press. Monitor. Loss of pressure. Stop immediately! Check tire pressure.



WARNING

Tire pressure is outside the approved tolerance range.

Risk of accident, deterioration in the handling characteristics of the vehicle.

· Adjust the driving style.

Possible cause:

The measured tire pressure is outside of the permissible tolerance.

 Check tire for damage and ridability.

If the tire is still ridable:

- Correct the tire pressure at the next opportunity.
- Before adjusting the tire pressure, check the information on temperature compensation and tire pressure adjustment in the chapter "Technology in detail":
- -with tire pressure monitor (TPM) OE
- -with tire pressure monitor (TPM) OE
- » Tire pressure adjustment
 (IIIII) 145)
- The target tire pressures can be found in the following locations:

- On the back cover of the rider's manual
- -Instrument cluster in the TIRE PRESSURE view
- -Tire pressure table
- Have the tire checked by a repair shop for damage, preferably by an authorized BMW Motorrad dealer.

If you are unsure about the tire's ridability:

- Do not continue riding.
- Contact roadside service.

Transmission fault



Possible cause:

The vehicle has not reached the minimum speed (144).

RDC sensor is not active

min 19 mph (min 30 km/h) (The RDC sensor transmits its signal to the vehicle only once the minimum speed has been exceeded.)

- Observe the TPM display at higher speed. This is a permanent fault only when the general warning light also lights up. In this case:
- Have the fault corrected at a repair shop, preferably an

authorized BMW Motorrad dealer.

Possible cause:

There is a fault in the radio link to the RDC sensors. Possible causes are radio systems in the surrounding area, which interfere with the connection between the TPM control unit and the sensors.

- Observe the RDC display in a different environment. This is a permanent fault only when the general warning light also lights up. In this case:
- Have the fault corrected at a repair shop, preferably an authorized BMW Motorrad dealer.

Sensor faulty or system fault



is lit yellow.



 Λ

Possible cause:

Wheels without RDC sensors are installed.

 Retrofit wheel set with RDC sensors. Possible cause:

One or two RDC sensors have failed or a system fault has oc-

 Have the fault corrected at a repair shop, preferably an authorized BMW Motorrad dealer.

Battery of the tire pressure sensor weak



is lit yellow.

TPM sensors battery low. Function limited. Have checked by a specialist workshop.

This fault message is only shown for a short time immediately following the Pre-Ride-Check.

Possible cause:

The battery for the tire pressure sensor is no longer charged to full capacity.

Operation of the Tire Pressure Monitor is only ensured for a limited time.

 Contact a repair shop, preferably an authorized BMW Motorrad dealer.

Tire Pressure Monitor (TPM) malfunction

-with tire pressure monitor (TPM) OE



is lit yellow.

Tire Press. Monitor failure! Function limited. Have checked by a specialist workshop.

Possible cause:

The TPM control unit has diagnosed a communication fault.

- Contact a specialist workshop, preferably an authorized BMW Motorrad retailer.
- » Tire pressure warnings not available

Malfunction of side stand monitor



is lit yellow.

Side stand monitoring defective. Engine stop at low speed! Have checked by a specialist workshop.

Possible cause:

The side support switch or its wiring is damaged

The engine is turned off if the speed falls below the minimum limit. The journey cannot be continued.

min 3 mph (min 5 km/h)

 Contact a repair shop. preferably an authorized BMW Motorrad dealer.

ABS self-diagnosis not completed



blinks.

Possible cause:

ABS self-diagnosis not completed

The ARS function is not available, as the self-diagnosis function has not been completed. (The E-Scooter must reach a specified minimum speed before the system can check operation of the wheel speed sensors: min 3 mph (min 5 km/h))

• Ride off slowly. Please note that the ABS function is only available after the self-diagnosis has completed.

ABS fault



is lit vellow.



lights up.

Limited ABS availability! Onward journey possible. Ride carefully to next specialist workshop.

Possible cause:

The ABS control unit has detected an error. The ABS function is limited.

- You may continue riding. Take note of additional information on special situations that can lead to an ABS fault message (137).
- Have the malfunction corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer.

ABS failure



is lit yellow.



lights up.

ABS failure! Onward journey possible. Ride carefully to next specialist workshop.

Possible cause:

The ABS control unit has detected an error. The ABS function is not available

- You may continue riding. Take note of additional information on special situations that can lead to an ABS fault message (137).
- Have the malfunction corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer.

ABS Pro failure



is lit yellow.



lights up.

ABS Pro failure! Onward journey possible. Ride carefully to next specialist workshop.

Possible cause:

The monitoring of the ABS Pro function has detected a fault. The ABS Pro function is not available. The ABS function remains available. ABS only supports braking in straight-ahead ridina.

 You may continue riding. Observe additional information on special situations that can

lead to a ABS Pro fault message (137).

 Have the malfunction corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer

Service display

If service is overdue, the

service date or the distance covered at which service should have been completed is accompanied by the general warning light in yellow.

If service is overdue, a yellow Check Control message is displayed. The displays for service, service appointment, and remaining distance are also highlighted with exclamation marks in the menu windows MY VEHICLE and SERVICE REQUIREMENTS.

If the service display appears more than a month before the service date, the current day's date must be reset. This situation can occur if the battery was disconnected.

Service due



is displayed in white.

Service due! Have a service performed at a specialist workshop. Possible cause:

Service is due because of the mileage or the date.

- Have service performed regularly by a repair shop, preferably an authorized BMW Motorrad dealer.
- » The operating safety and road safety of the vehicle remains unchanged.
- » The best-possible value retention of the vehicle is ensured.

Service appointment overdue



is lit yellow.



is displayed in yellow.

Service overdue! Have a service performed at a specialist workshop.

Possible cause:

Service is overdue because of the riding performance or the date.

- Have service performed regularly by a repair shop, preferably an authorized BMW Motorrad dealer.
- » The operating safety and road safety of the vehicle remains unchanged.

» The best-possible value retention of the vehicle is ensured.



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STANDBY

Ignition keys

The indicator light for the radio-operated key flashes as long as the radio-operated key is being searched for. If the radio-operated key or the spare key is detected, it goes out

If the radio-operated key or the spare key is not detected, it lights up briefly.

You are provided with one radio-operated key and one spare key. If you lose your keys, refer to the notes regarding the electronic immobilizer (EWS) (*** 57).

Standby mode and the antitheft alarm system are activated with the radio-operated key. The storage compartment locks and topcase can be operated manually.

When the range of the radio-operated key is exceeded (e.g. in case or top-case), the vehicle cannot be started.

If the radio-operated key is still missing, standby will be turned off after approx. 1.5 minutes to protect the battery.

It is recommended to carry the radio-operated key directly on your person (e.g. in a jacket pocket) and to also carry the spare key as an alternative.

Range of Keyless Ride radio-operated key

Approx. 3.3 ft (Approx. 1 m)

Locking the steering lock Requirement

Handlebars are turned to the left. Radio-operated key is within reception area.



- Press and hold button 1.
- » Steering lock audibly locks.
- » Standby mode, lights and all electrical circuits turned off.
- To unlock the steering lock, briefly press button 1.

Turn on standby mode Requirement

Radio-operated key is within reception area.



 There are two variants for turning on standby mode.

Version 1:

- Briefly press button 1.
- » Parking lights and all function circuits are turned on.
- » Pre-Ride-Check is carried out. (■ 124)

Version 2:

- Steering lock is locked; press and hold button 1.
- » Steering lock is unlocked.
- » Parking lights and all function circuits turned on.
- » Pre-Ride-Check is carried out. (■ 124)
- » ABS self-diagnosis is performed. (■ 125)

Standby turned off Requirement

Radio-operated key is within reception area.



 There are two variants for turning off standby mode.

Version 1:

- Briefly press button 1.
- » Light is turned off.
- » Steering lock is not locked.

Version 2:

- Turn handlebars to left.
- Press and hold button 1.
- » Light is turned off.
- » Steering lock is locked.

Electronic immobilizer EWS

The electric scooter's electronics monitor the data stored in the ignition key through a ring antenna incorporated in the vehicle lock. The engine control unit does not enable ride readiness until this key has been recognized as "authorized".

An additional radio-operated key fastened to the same ring as the radio-operated key used to start the engine could confuse the electronics, in which case the en-

abling signal for ride readiness is not issued.

Always keep the radio-operated keys separate from each other.

If you lose an ignition key, you can have it disabled by your authorized BMW Motorrad dealer For this purpose, you should also bring all of the electric scooter's remaining ignition keys with you. The electrical machine can no longer be started by a disabled vehicle key; however, a disabled vehicle kev can be enabled again. Spare keys are available only through an authorized BMW Motorrad dealer. The vehicle kevs are part of an integrated safety system, so the dealer is under obligation to check the legitimacy of all applications for spare keys.

Battery of radio-operated key is dead or radio-operated key is lost



- If you lose your keys, refer to the notes regarding the electronic immobilizer (EWS).
- If you lose the radio-operated key while riding, you can start the vehicle by using the spare key.
- If the battery of the radio-operated key is dead, you can start the vehicle by touching the cover between the storage compartment flap and charging compartment flap with the radio-operated key.
- Hold the spare key 1 or the empty radio-operated key 2 against the cover between the storage compartment flap and charging compartment flap at the height of the antenna 3.

Period in which ride readiness can be established. Then unlocking must be repeated.

30 s

- » Pre-Ride-Check is carried out.
- Radio-operated key was detected.
- Electrical machine can be started.
- Turn on standby mode.(IIII 56)

Replacing the battery of the radio-operated key

If the radio-operated key does not respond when a button is pressed for a short or long time:

 The battery for the radio-operated key no longer has full capacity.

Remote key battery low. Function limited. Change battery.

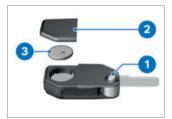


DANGER

Swallowing a battery

Risk of injury or death

- An ignition key contains a button cell as a battery. Batteries or button cells can be swallowed and cause severe or fatal injuries within two hours, e.g. due to internal burns or chemical burns.
- Keep ignition keys and batteries out of the reach (range) of children.
- If it is suspected that a battery or button cell has been swallowed or is inside a body part, seek medical attention immediately.
- Change battery.



- Press button 1.
- » Key bit folds open.
- Press battery cover 2 upward.
- Remove battery 3.
- Dispose of the old battery in accordance with legal reg-

ulations. Do not dispose of the battery in the household waste.



ATTENTION

Unsuitable or improperly inserted batteries

Component damage

- Use a battery compliant with the manufacturer's specifications.
- When inserting the battery, make sure that the polarity is correct.
- Insert the new battery with the positive terminal facing up.

Battery type

For Keyless Ride radio-operated key

CR 2032

- Install battery cover 2.
- » Red LED in instrument cluster blinks.
- » The radio-operated key is working again.

EMERGENCY-OFF SWITCH



1 Emergency-off switch The emergency-off switch 1 can be used to turn off the electric drive quickly.



- A Electric drive turned off
- **B** E-Scooter operational

REVERSING Using reversing



WARNING

Reduced awareness of the E-Scooter in electric mode.

Accident hazard

- With driving in electric mode, pedestrians and others on the road may not as aware of the E-Scooter because of its lack of engine noise.
- Drive with particular care.
- Turn on ride readiness.(127)



 Press and hold button 1 during the entire reversing process.



- The release is indicated in the display by a R with a down arrow icon 1.
- Carefully actuate the E-gas electronic throttle twistgrip and reverse.
- The E-Scooter moves in reverse at a maximum of 2 mph (3 km/h).



 During reversing, the arrow icon 1 lights up.

LIGHTING

Low beams and parking lights

The parking lights are automatically turned on as soon as the E-Scooter is operational. The parking lights then continue to glow for a short time.

The low beams are automatically switched on as soon as the E-Scooter is ready to go.

High beams and headlight flasher

Turn on standby mode.
(i → 56)



- Press switch 1 forward to turn on high beams.
- Pull switch 1 toward rear to actuate headlight flasher.

Headlight courtesy delay feature

• Turn off standby mode.



- Immediately after turning off standby mode, pull switch 1 back and hold it until the pathway lighting turns on.
- The vehicle lighting lights up for one minute and then turns off automatically.
- This can be used, for example, to light the path to your front door after the vehicle is parked.

Roadside parking lights

Turn off standby mode.(IIII 57)



 Immediately after turning off standby mode, push button 1

- to the left and hold it until the parking lights turn on.
- Switch standby mode on and then off again to switch off parking lights.

Operating the hazard warning system

- Turn on standby mode.(IIII) 56)
- The hazard warning system places a load on the battery. Only switch the hazard warning lights system on briefly.
- If a turn indicator button is pressed when hazard warning lights are on, the turn indicator function replaces the hazard warning light function for the duration of turn indicator operation. Once the turn indicator button is no longer being pressed, the hazard warning light function will resume.



 Press button 1 to turn on the hazard warning system.

- » Standby can be turned off.
- Turn on standby mode and press button 1 again to turn off the hazard warning system

Operating turn signals

- Turn on standby mode. (IIII 56)
- Go to menu Settings, Vehicle settings, Lights.
- Turn Comfort turn indicator on or off.



- Press button 1 to the left to turn on the left-side turn signals
- Press button 1 to the right to turn on the right-side turn signals.
- Press button 1 to turn off the turn signals.
- » If the comfort turn signal is turned on, the turn signals switch off automatically after the speed-dependent distance covered has been reached.

RIDING MODE

Use of the riding modes

BMW Motorrad has developed riding scenarios for your electric scooter from which you can select the one matching your situation:

- ECO: Range-optimized riding.RAIN: Riding on wet roads.
- -ROAD: Riding on dry roads.
- with riding modes Pro OEDYNAMIC: Brisk riding on dry roads.

The optimum interaction between engine characteristics, ASC/DTC control, and energy recovery stability control (RSC) is provided for each of these scenarios.

Setting riding mode

Turn on standby mode.
(IIII) 56)



Press button 1.

You can find more detailed information regarding the selectable riding modes in the "Technology in detail" chapter.



The active riding mode 2 fades into the background, and the first selectable riding mode 3 is displayed. The guide 4 shows how many riding modes are available.



 Press the button 1 repeatedly until the desired riding mode is shown next to the selection arrow. The selected riding mode is activated after approx. 2 seconds.

ANTI-THEFT ALARM SYSTEM (DWA)

-with anti-theft alarm system (DWA) OE

Activation

- Turn on standby mode. (■ 56)
- Adjust the anti-theft alarm system. (*** 67)



- Turn off standby mode.
- Press button 1 on the radiooperated key twice.
- Activation takes approximately 30 seconds to complete.
- » Turn signals flash twice.
- » Confirmation tone sounds twice (if programmed).
- » Anti-theft alarm system is active.



- To deactivate the tilt sensor (for example, if you are about to transport the electric scooter on a train and the strong movement of the moving train could trip the alarm), press button 1 on the radio-operated key again during the activation phase.
- » Turn signals flash three times.
- » Confirmation tone sounds three times (if programmed).
- » Tilt sensor is deactivated.

Alarm signal

The DWA alarm signal can be triggered by:

- -Tilt alarm sensor
- -Switch-on attempt with an unauthorized ignition key.
- Disconnection of the DWA from the vehicle battery (DWA battery takes over the power supply – alarm tone only, turn signals do not flash)

If the radio-operated key is within the reception area, any alarm signal triggered by the tilt alarm sensor is suppressed.

If the DWA battery is discharged, all functions remain operational; the only difference is that the alarm cannot be triggered if the system is disconnected from the vehicle battery.

The duration of the alarm signal is approx. 26 seconds. During the alarm, an alarm tone sounds and the turn signals blink. The type of alarm tone can be set by an authorized BMW Motorrad dealer.



You can cancel a triggered alarm signal at any time by pressing the button **1** of the radio-operated key without deactivating the DWA.

If an alarm signal has been triggered while the motorcycle was unattended, the rider is notified accordingly by an alarm tone sounding once when standby mode is turned on. Then the DWA LED indicates the reason for the alarm signal for one minute. Light signals on indicator light:

- -1x flash: Tilt sensor 1
- -2x flash: Tilt sensor 2
- -3 blinks: Standby mode is turned on using unauthorized ignition key.
- -4 blinks: Anti-theft alarm system disconnected from vehicle battery
- -5 blinks: Tilt sensor 3

Deactivation

Version 1:

- Emergency-off switch in operating position.
- Turn on standby mode.
 (IIII) 56)
- » Turn signals flash once.
- » Confirmation tone sounds once (if programmed).
- » DWA is turned off.



Version 2:

• Press the button **1** on the radio-operated key once.

If the alarm function is deactivated using the radiooperated key and standby is not then turned on, the alarm function will be reactivated automatically after approximately 30 seconds if Arm automatically is turned on.

- » Turn signals flash once.
- » Confirmation tone sounds once (if programmed).
- » DWA is turned off.

Adjusting the anti-theft alarm system

- Turn on standby mode.
 (IIII) 56)
- Go to menu Settings, Vehicle settings, Alarm system.
- The following settings are available:
- -Adapting Warning signal

- -Turning Tilt sensor on and
 off
- -Turning Arming tone on and off
- -Turning Arm automatically on and off
- » Adjustment options (67)

Adjustment options

Warning signal: Set increasing and decreasing or intermittent alarm tone.

Tilt sensor: Activate the tilt sensor to monitor the inclination of the vehicle. The antitheft alarm system responds, for example, in the event of attempted wheel theft or towing away.

Deactivate the tilt sensor when transporting the vehicle to avoid triggering the DWA

Arming tone: Confirmation alarm tone after activating/deactivating the DWA in addition to the turn signals lighting up. Arm automatically: Automatic activation of the alarm function when standby mode is turned off.

68 OPERATION

TIRE PRESSURE MONITOR (TPM)

-with tire pressure monitor (TPM) OE

Switching setpoint pressure warning on or off

- If the minimum tire pressure is reached, a target pressure warning can be displayed.
- Go to menu Settings, Vehicle settings, RDC.
- Turn Target pressure warn. on or off.

HEATING

Operating heated grips

-with heated grips ^{OE}
-without seat heating ^{OE}

The heated grips are active only when standby is turned on.

Turn on ride readiness.(127)



 Press the button 1 repeatedly until the desired heating level **2** is shown in front of the heated grip icon **3**. The handlebar grips can be heated at three different levels:



Low heater output



Medium heater output



High heater output

- » The high heating level is used for fast heat-up of the grips; then the switch should be switched back to the 1st level.
- » If no further changes are made, the selected heating level is set.
- To turn off the heated grips, press the button 1 repeatedly until the heated grip icon 3 disappears.

Operating the heating

-with heated grips ^{OE}
-with seat heating ^{OE}

The heated grips and the seat heating are active only when standby is turned on.

Turn on ride readiness.
(→ 127)



- Press button 1.
- » The HEATING menu opens.
- Select Heated handlebar grips or Seat heating.
- Select the desired heating level and confirm.
- » The selected heating level is shown in the display to the left of the heating symbols 2.
- Press the 1 button to close the HEATING menu.
- To switch the heater off or on again using the previously selected heating levels, press and hold the 1 button.

The heating level settings are retained even after standby is turned off.

STORAGE COMPARTMENT

Using the storage compartment Requirement

Standby mode is turned on.



ATTENTION

High temperatures in the storage compartments, especially in summer

Damage to objects housed here, particularly electronic devices such as mobile phones

- Do not place objects that are sensitive to heat in the storage compartment during the summer.
- Ask the manufacturer about possible limits of use and observe them.



ATTENTION

Vibrations during riding

Damage to stored mobile phones

 Make sure that the stored mobile phone is suitable for use on the motorcycle. To do so, ask the manufacturer about limits of use and observe them.

70 OPERATION



- Open the storage compartment flap 1 by pressing the button 2.
- » The open storage compartment flap is not suitable for storage of objects.
- To close, press the storage compartment flap 1 into the locking mechanism with firm pressure.

Ventilation

Starting from a temperature of 95 °F (35 °C), a fan is turned on in the storage compartment to ensure sufficient air circulation. The fan switches off again as soon as the temperature in the storage compartment is below 86 °F (30 °C).

Charging a smartphone Requirement

Standby mode is turned on.

• Open storage compartment.



- Insert the smartphone **2** into the cradle **1** with the display facing up.
- » The smartphone is fastened in place.



 Connect the charging cable with the smartphone 2 and USB-C connection 3.

BMW Motorrad recommends the use of the BMW Motorrad USB cable for charging smartphones in the storage compartment. The space in the storage compartment may be insufficient for commercially available charg-

ing cables, which may be damaged.



 Close the storage compartment flap 4.

Notes about use

The storage compartment is suitable for smartphones with dimensions up to a maximum of 6.2 in (158 mm) x 3.1 in (78 mm) x 0.39 in (10 mm). For small mobile phones that might not be held securely by the holder, BMW Motorrad recommends the use of a BMW Motorrad smartphone case.

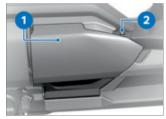
Charge current

This is a 5 V USB-C charging socket providing a maximum charge current of 1.5 A (maximum charge power of 7.5 W).

HELMET COMPARTMENT

Using the helmet compartment

Turn on standby mode.



 Open helmet compartment flap 1 with button 2.

The lighting of the storage compartment is turned on when standby is turned on. After standby is turned off, the storage compartment lighting remains on for a brief period.

Payload of the helmet compartment

max 18 lbs (max 8 kg)

- » The open helmet compartment flap is not suitable for storage of objects.
- To close it, press the center of the helmet compartment flap 1 into the locks with firm pressure.
- » The helmet compartment flap will audibly engage with both lock hooks.

72 OPERATION

Perform emergency release of helmet compartment

• Remove side panel. (159)



- Pull tab 1 in arrow direction, if necessary, using the on-board vehicle tool kit.
- » Helmet compartment unlocked.
- Install side panel. (■ 159)



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GENERAL NOTES

Warnings



WARNING

Operation of a smartphone while riding

Risk of accident

- Observe the valid road traffic regulations.
- Do not use any smartphone while riding. Applications that do not involve operation are exempt, such as phone calls using a hands-free system.



WARNING

Distraction from traffic conditions and loss of control Risk of accident through the use of integrated information systems and communication devices during the journey

- Operate these systems or devices only if the traffic situation allows.
- If necessary, stop and operate the system or devices at a standstill.

Connectivity functions

Connectivity functions include media, telephony and navigation. Connectivity functions can be used if the TFT display is connected with a mobile end device and a helmet (*** 87). You can find more information on the Connectivity functions at:

bmw-motorrad.com/connectivity

Depending on the mobile terminal, the scope of the Connectivity functions may be limited

BMW Motorrad Connected App

With the BMW Motorrad Connected App, you can call up information about the vehicle and usage. To use some features such as navigation, the app must be installed on the mobile end device and be connected to the TFT display. The app starts the route guidance and adapts the navigation.

Currentness of this manual

After the editorial deadline, there may be updates to the TFT display. For this reason, some aspects of your vehicle may vary from the descriptions in this rider's manual. Updated information is available at **bmw-motorrad.com/service**.

PRINCIPLE

Operating elements



All content on the display is controlled by the Multi-Controller **1** and the rocker button MENU **2**.

The following functions are possible depending on the context.

Functions of the Multi-Controller

Turn the Multi-Controller up:

- -Move the cursor up in lists.
- -Make settings.
- -Increase volume.

Turn the Multi-Controller down:

- -Move the cursor down in lists.
- –Make settings.
- -Reduce volume.

Tilt Multi-Controller to the left:

- Activate the function according to the operating feedback.
- -Activate function to the left or back.
- -After settings, return to menu view.
- -In Menu view: Change a hierarchy level up.
- -In the My vehicle menu: Browse to the next menu
- -In Pure Ride view: Browse to the previous split screen display.

Tilt Multi-Controller to the right:

- -Activate the function according to the operating feedback.
- -Confirm selection.
- -Confirm settings.
- Browse to the next menu step.
- -Scroll to right in lists.
- In the My vehicle menu: Browse to the next menu screen.
- In Pure Ride view: Browse to the next split screen display.

Rocker button MENU functions

Navigation instructions are displayed as a dialog if you have not gone to the Navigation menu. Operation of the MENU rocker button is temporarily restricted.

Briefly press the MENU up:

- -In Menu view: Change a hierarchy level up.
- -In Pure (Ride) view: Change the status line display.

MENU long press up:

In Menu view: Open Pure Ride view.

MENU short press down:

- -Change a hierarchy level down.
- -No function when lowest hierarchy level is reached.

MENU long press down:

Return to the last menu, after a menu change has been previously carried out by long press of the rocker button MENU at the top.

Operating instructions in the main menu



The operating instructions indicate whether and which interactions are possible.

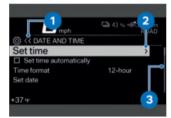


Meaning of the operating instructions:

- Operating instructions **1**: The left end has been reached.
- -Operating instructions **2**: You can browse to the right.
- -Operating instructions **3**: You can browse down.
- -Operating instructions **4**: You can browse to the left.

Operating instructions in submenus

In addition to the operating instructions in the main menu, there are additional operating instructions in submenus.



Meaning of the operating instructions:

- Operating instructions 1: The current display is in a hierarchical menu. One icon indicates one submenu level. Two icons indicate two or more submenu levels. The color of the icon changes depending on whether there is an option to return to the top.
- Operating instructions 2: You can go to another submenu level.
- -Operating instructions **3**: There are more entries than can be displayed.

Turning functions on and off



Some menu items are preceded by a box. The box indicates whether the function is turned on or off. Action icons after the menu items illustrate what is switched by briefly tilting the Multi-Controller to the right.

Examples for turning on and off:

- -lcon 1 indicates that the function is turned on.
- -lcon **2** indicates that the func-
- -lcon 3 indicates that the function can be turned off.
- -lcon 4 indicates that the function can be turned on.

Show Pure (Ride) view

 Press and hold the top of the rocker button MENU.

Go to the menu



- Show Pure (Ride) view.(™ 79)
- Briefly press button 2 downward.

You can go to the following menus:

- -My vehicle
- -Navigation
- -Media
- -Telephone
- -Settings
- Press Multi-Controller 1 repeatedly briefly to the right until the desired menu item is marked.
- Briefly press button 2 downward

The Settings menu can only be called up when stationary.

Moving the cursor in lists



- Go to the menu. (■ 80)
- To move the cursor down in lists, turn the Multi-Controller 1 down until the desired entry is selected.
- To move the cursor up in lists, turn the Multi-Controller 1 up until the desired entry is selected.

Confirming the selection



- Select desired entry.
- Multi-Controller 1 short press to right.

Go to the last menu used

- In Pure Ride view: Press and hold the bottom of the MENU rocker button.
- » The last used menu is called up. The last marked entry is selected.

Changing the status line display Requirement

The vehicle is stationary. The Pure (Ride) view is displayed.

- Turn on standby mode. (→ 56)
- » All of the information necessary for operating the vehicle on public roads is made available from the on-board computer (e.g. TRIP 1) and travel on-board computer (e.g. TRIP 2) in the TFT display. The information can be displayed in the upper status line.
- -with tire pressure monitor (TPM) OE
- » In addition, information from the Tire Pressure Monitor can be displayed.<</p>
- Select content of upper status line. (■ 82)



- Press and hold button 1 to display the Pure Ride view.
- Press button 1 briefly to select the value in the upper status line 2.

The following values can be displayed:



Total distance



Current distance 1



Current distance 2



Consumption 1 (average)



Consumption 2 (average)



Recuper. 1



Recuper. 2



Riding time 1



Riding time 2



Break 1



Break 2



Speed 1 (average)



Speed 2 (average)

-with tire pressure monitor (TPM) OE



Tire pressure⊲

Selecting content of upper status line

- Go to menu Settings, Display, Status line content.
- Turn on desired displays.
- » It is possible to change between the selected displays in the upper status line. If no displays are selected, the state of charge and the range are displayed:



Battery state of charge



Range

Making settings



- Select desired settings menu and confirm.
- Turn Multi-Controller 1 down until the desired setting is marked.
- If operating instructions are present, tilt the Multi-Controller 1 to the right.
- If no operating instructions are present, tilt the Multi-Controller 1 to the left.
- » The setting is saved.

Turning Speed Limit Info on or off Requirement

The vehicle is connected to a compatible mobile end device. The BMW Motorrad Connected app is installed on the mobile end device.

 Speed Limit Info displays the currently permitted maximum speed insofar as this information is provided by the editor of the maps in the navigation system.

- Call up menu Settings, Display.
- Turn Speed Limit Info on or off.

Programmable memory buttons



- In the menu Settings, System settings, Favourite button, select Star.
- Select the desired function or Not assigned.
- Each time you press the button 1, it calls up the selected function.

PURE RIDE VIEW Drive display



- Range of energy recovery torque
- 2 Current energy recovery or drive torque
- 3 Range of drive torque

Limitations



Mark 1 indicates that the energy recovery is limited.
Mark 4 indicates that the power is limited.
In connection with limitations, the following icons can appear in the top right of the display: Icon 2: Energy recovery is severely limited

Icon 3: Power is severely limited

Limitations can have various causes. The cause of the limitation is indicated by the color of the mark 1 or 4:

- Gray: limitation is the result of the riding mode
- -Yellow: System limitations, e.g. due to temperature, state of charge, continuous load or system fault.

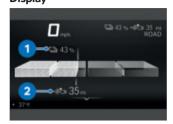
Temporary limitation of available power under excessive continuous load prevents the battery from aging prematurely.

Range and state of charge



The range **2** indicates the distance you can cover with the remaining state of charge **1**.

PURE VIEW Display



If the vehicle is not ready to ride, the Pure view appears in the display instead of the Pure Ride view.

The state of charge 1 and range 2 are displayed.

SPLIT SCREEN

Turning on the split screen and selecting a display



- Show Pure (Ride) view. (IIII 79)
- Briefly press the Multi-Controller 1 to the left or right repeatedly until the desired display appears.

 Alternative: Press the Multi-Controller 1 to the right and hold it to return to the last selected display in the split screen.

The following displays can be selected:

- -ONBOARD COMPUTER
- -TRIP COMPUTER
- -Navigation
- -MEDIA
- The selected display remains even after standby mode is turned off.

Turning off split screen



- Show Pure (Ride) view. (IIII 79)
- Briefly press the Multi-Controller 1 to the left repeatedly until the split screen disappears.
- Alternative: Press the Multi-Controller 1 to the left and hold it.

GENERAL SETTINGS

Adjusting the volume

- Connect the rider's helmet and the passenger helmet.
 89)
- Increase volume: Turn the Multi-Controller up.
- Decrease volume: Turn the Multi-Controller down.
- Mute: Turn the Multi-Controller all the way down.
- » When set to Mute, media playback is paused.

Setting the date

- Turn on standby mode.(iii 56)
- Go to menu Settings, System settings, Date and time. Set date.
- Set Day, Month, and Year.
- Confirm setting.

Adjusting the date format

- Go to menu Settings, System settings, Date and time, Date format.
- Select desired setting.
- Confirm setting.

Setting the clock

- Turn on standby mode.(iii 56)
- Go to menu Settings, System settings, Date and time, Set time.

• Set Hour and Minute.

Setting the time format

- Go to menu Settings, System settings, Date and time, Time format.
- Select desired setting.
- Confirm setting.

Setting the units of measurement

• Go to menu Settings, System settings, Units.

The following units of measurement can be set:

- -with tire pressure monitor (TPM) ^{OE}
- -Pressure<
- -Temperature
- -Consumption

Setting the language

• Go to menu Settings, System settings, Language.

The following languages can be set:

- -German
- -English (UK)
- -English (US)
- -Spanish
- -French
- -ltalian
- -Dutch
- -Polish
- -Portuguese (Brazil)
- -Portuguese (Portugal)
- -Turkish

- -Russian
- -Ukrainian
- -Chinese
- -Japanese
- -Korean
- -Thai
- -Romanian

Adjusting brightness

- Go to menu Settings, Display, Brightness.
- Adjust brightness.
- The brightness of the display is dimmed to the set value if ambient brightness falls below a defined value.

Resetting all settings

- All settings in the Settings menu can be reset to the factory settings.
- Go to the Settings menu.
- Select Reset all and confirm.

The settings of the following menus are reset:

- -Vehicle settings
- -System settings
- -Connections
- -Display
- -Information
- » Existing Bluetooth connections are not deleted.

BLUETOOTH®

Bluetooth®

Bluetooth is a close-range wireless technology. Bluetooth devices are short-range devices (transmitting with a limited range) on the license-free ISM band (Industrial, Scientific, Medical) between 2.402...2.480 GHz. They can be operated anywhere in the world without a license being required.

Although Bluetooth is designed for establishing robust connections over short distances, faults are possible as with any other wireless technology. Connections can be subject to interference, can be briefly interrupted or lost entirely. Especially when several devices are operated in one Bluetooth network, there is no guarantee for smooth operation in every situation.

Possible sources of interference:

- Interference fields due to transmission towers and similar.
- Devices with incorrectly implemented Bluetooth radio standard.

- By nearby Bluetooth-capable devices.
- -Shielding by metals or bodies.

Pairing

Two Bluetooth devices have to recognize each other before they can communicate. This process of mutual recognition is known as pairing. When two devices have paired they remember each other, so the pairing process is conducted only once, on initial contact.

On some mobile terminals, e.g. with operating system iOS, you must go to the BMW Motorrad Connected App before use.

During the pairing process, the instrument cluster searches for other Bluetooth-compatible devices within its reception range. The conditions that have to be satisfied before a device can be detected are as follows:

- The Bluetooth® function of the device must be activated
- -The device must be "visible" to others
- Other Bluetooth-capable devices must be OFF (e.g. mobile phones and navigation systems).

Please consult the operating instructions for your communication system.

Carrying out pairing

- Call up menu Settings, Connections.
- » Bluetooth connections can be established, managed, and deleted in the CONNECTIONS menu. The following Bluetooth connections are displayed:
- -Mobile device
- -Rider's helmet
- -Passenger helm.

The connection status for mobile end devices is displayed.

Connecting a mobile end device

- Carry out pairing. (■ 88)
- Activate the Bluetooth function of the mobile end device (see operating instructions for the mobile end device).
- Select Mobile device and confirm.
- Select Pair new mobile device and confirm.

 Mobile end devices are

Mobile end devices are searched for.



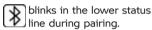
blinks in the lower status line during pairing.

Visible mobile end devices are displayed.

- Select the mobile end device and confirm.
- If the fuel tank is between the mobile terminal and the instrument cluster, the Bluetooth connection may be restricted. BMW Motorrad recommends storing the mobile terminal above the fuel tank (e.g. in the jacket pocket).
- Observe the instructions for the mobile end device.
- · Confirm that the codes match.
- The connection is established and the connection status is updated.
- » If the connection is not established, the troubleshooting chart may provide assistance. (Image 186)
- Depending on the mobile end device, telephone data is transferred to the vehicle automatically.
- » Telephone data (■ 98)
- » If the phone book is not displayed, the troubleshooting chart may provide assistance. (IIII 187)
- » If the Bluetooth connection does not work as expected, the troubleshooting chart may provide assistance. (IIIII) 187)

Connect the rider's helmet and the passenger helmet

- Carry out pairing. (■ 88)
- Select Rider's helmet or Passenger helm. and confirm.
- Show the communication system of the helmet.
- Select Pair new rider's helmet or Pair new passeng. helmet and confirm. Helmets are searched for.



Visible helmets are displayed.

- Select helmet and confirm.
- » The connection is established and the connection status is updated.
- » If the connection is not established, the troubleshooting chart may provide assistance.
 (IIII 186)
- » If the Bluetooth connection does not work as expected, the troubleshooting chart may provide assistance. (IIIII) 187)

Deleting connections

- Call up menu Settings,
 Connections.
- Select Delete connections.

- To delete an individual connection, select the connection and confirm.
- To delete all connections, select Delete all connections and confirm.

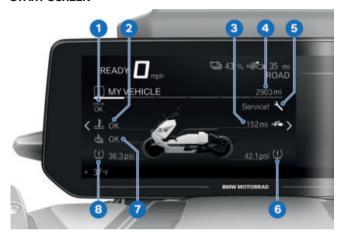
WI-FI

WiFi connection

A WiFi connection is used to transmit the map view from a mobile phone to the TFT display. To enable the full scope of function, WiFi must be enabled on the mobile phone. More information on activating WiFi can be found in the operating instructions of the mobile phone.

Depending on local conditions, such as a high number of WiFi networks, temporary limitations and connection dropouts can occur.

MY VEHICLE START SCREEN



- 1 Check Control display Layout (→ 26)
- 2 Status of coolant temperature (m 40)
- **3** Range (■ 84)
- 4 Odometer
- **5** Service display (→ 51)
- 6 Rear tire pressure (*** 45)
- 7 Status of high-voltage energy storage system temperature
- Front tire pressure (*** 45)

Operating instructions



- Operating instructions 1:
 Tabs that show how far to the left or right you can browse.
- Operating instructions 2: Tab that shows the position of the current menu screen.

Browsing through menu screens



- Go to the My vehicle menu.
- To browse to the right, briefly press the Multi-Controller 1 to the right.
- To browse to the left, briefly press the Multi-Controller 1 to the left.

The following screens are included in the My vehicle menu:

- -MY VEHICLE
- -ONBOARD COMPUTER
- TRIP COMPUTER
- -with tire pressure monitor (TPM) OE
- -TIRE PRESSURE⊲
- -SERVICE REQUIREMENTS
- -CHECK CONTROL MESSAGE (if present)
- More information about tire pressure and Check Control messages can be found in the "Displays" chapter.

Check-Control messages are dynamically added to the menu screens in the My vehicle menu as additional tabs.

On-board computer and travel on-board computer

The ONBOARD COMPUTER and TRIP COMPUTER menu windows show the vehicle and journey data, e.g. average values.

Service requirement



If the time remaining until the next service is less than a month, or if the next service is due within 700 mi (1000 km), a white Check Control message is displayed.

TRIP COMPUTER

Calling up the on-board computer

- Go to the My vehicle menu.
- Scroll to the right until the ONBOARD COMPUTER menu screen is displayed.
- » As an alternative, the onboard computer can also be displayed on the split screen.
- Turn on the split screen and select a display. (■ 84)

Resetting the on-board computer

- Go to the on-board computer.
 (■ 93)
- Press MENU rocker button down
- Select Reset all values or Reset individual values and confirm.

The following values can be reset individually:



Journey



Current



Speed



Consump.



Recuper. 1

Calling up the travel on-board computer

- Go to the on-board computer.
 (IIII) 93)
- Scroll to the right until the TRIP COMPUTER menu screen is displayed.
- » As an alternative, the travel on-board computer can also be displayed on the split screen
- Turn on the split screen and select a display. (IIII 84)

Resetting the travel on-board computer

- Go to the travel on-board computer. (→ 93)
- Press MENU rocker button
 down
- Select Automatic reset or Reset all values and confirm.
- » If Automatic reset is selected, the travel on-board computer is automatically reset if at least 6 hours have passed since standby mode was turned off and the date has changed.

NAVIGATION

Warnings



WARNING

Operation of a smartphone while riding

Risk of accident

- Observe the valid road traffic regulations.
- Do not use any smartphone while riding. Applications that do not involve operation are exempt, such as phone calls using a hands-free system.



WARNING

Distraction from traffic conditions and loss of control Risk of accident through the use of integrated information systems and communication devices during the journey

- Operate these systems or devices only if the traffic situation allows.
- If necessary, stop and operate the system or devices at a standstill.

Prerequisite

The vehicle is connected to a compatible mobile end device via Bluetooth.

The BMW Motorrad Connected app is installed on the connected mobile terminal.

On some mobile terminals, e.g. with operating system iOS, you must go to the BMW Motorrad Connected App before use.

Show map view Requirement

WiFi is activated on the mobile phone paired via Bluetooth.

- Connect mobile terminal.
 (IIII) 88)
- Call up the BMW Motorrad Connected app.
- Go to the Navigation menu.

If the NAVIGATION view has been selected in the split screen and you go to the NAVIGATION menu at the same time, the split screen view is ended automatically, and the navigation is displayed on the entire TFT display.

Entering destination address

- Go to the BMW Motorrad Connected app and start the guidance.
- Go to menu Navigation in the TFT display.
- » Active destination guidance is displayed.
- —If WiFi is not activated on the mobile end device, route guidance is displayed as an arrow view.
- » If the active route guidance is not displayed, the troubleshooting chart may provide assistance. (IIIII 187)

Select destination from most recent destinations

- Call up menu Navigation, Recent destinations.
- Select destination and confirm.
- Select Start route guidance.

Select destination from favorites

 The FAVORITES menu shows all destinations that have been saved as a favorite in the BMW Motorrad Connected app. It is not possible to create new favorites in the instrument cluster.

- Call up menu Navigation, Favorites.
- Select destination and confirm.
- Select Start guidance.

Entering special destinations

- Special destinations, e.g. landmarks, can be displayed on the map.
- Call up menu Navigation, POIs.

The following locations can be selected:

- -At current location
- -At destination
- -Along the route
- Select in which location you want to search for special destinations.

The following point of interest can be selected:

- -Filling station
- Select special destination and confirm.
- Select Start route guidance and confirm.

Specifying route criteria

• Call up menu Navigation, Route criteria.

The following criteria can be selected:

- -Route type
- -Avoid
- Select desired Route type.

• Turn desired Avoid on or off. The number of enabled avoidances is displayed in brackets.

Display route info

• Go to the Navigation, Settings menu, then select the Route info menu item.

You can select between the following options:

- -Destination
- -Waypoint
- Select desired option.
- » The remaining distance and time are displayed.

Editing guidance

• Call up menu Navigation, New destination.

You can select between the following destinations:

- -Recent destinations
- -Favorites
- -POIs
- Select destination from one of the three destination categories.
- Select Edit route guidance in the destination entry.
- Select Add stop to add the selected destination as a waypoint.
- Select Start guidance to overwrite the current destination.

Ending route guidance

- Call up menu Navigation, Active route guidance.
- Select and confirm End route guidance or tilt the Multi-Controller to the left.

Switching spoken instructions on or off

- Connect the rider's helmet and the passenger helmet.
 89)
- The navigation can be read out by a computer voice.
 To do this, the Spoken instructions must be turned on.
- Call up menu Navigation, Active route guidance.
- Turn Spoken instructions on or off.

Repeating the last spoken instruction

- Call up menu Navigation, Active route guidance.
- Select Current instruction and confirm.

MEDIA

Prerequisite

The vehicle is connected to a compatible mobile end device and a compatible helmet.

Controlling audio playback



- Go to the Media menu.
- BMW Motorrad recommends setting the volume for media and conversations via mobile terminals to the maximum before starting a journey.
- Adjust the volume. (*** 85)
- Next title: Briefly tilt Multi-Controller 1 to the right.
- Last title or beginning of the current title: Briefly tilt Multi-Controller 1 to the left.
- Go to context menu: Press button **2** downward.
- Depending on the mobile terminal, the scope of the Connectivity functions may be limited.
- The following functions can be used in the context menu:Playback or Pause.
- -For search and playback, select the category Now playing, All artists, All albums or All tracks.

-Select Playlists.

In the Audio settings submenu, the following settings are possible:

- Turn Shuffle on or off.
- -Select Repeat: Off, One (current track) or All.
- » If the playlist is not displayed on the TFT display, the troubleshooting chart may provide assistance. (IIII)

TELEPHONE

Prerequisite

The vehicle is connected to a compatible mobile end device and a compatible helmet.

Making a phone call



- Go to the Telephone menu.
- When a call comes in, a pop-up opens.
- Accepting a call: Tilt Multi-Controller 1 to the right.
- Rejecting a call: Tilt Multi-Controller 1 to the left.

 Ending a call: Tilt Multi-Controller 1 to the left.

Muting

The microphone in the helmet can be muted during active conversations.

Conversations with multiple users

A second telephone call can be accepted during a conversation. The first conversation will be put on hold. The number of active calls is displayed in the Telephone menu. It is possible to switch between two conversations.

Telephone data

Depending on the mobile end device, telephone data is transferred to the vehicle automatically after pairing (*** 87). Phone book: List of contacts saved in the mobile terminal Call list: List of calls with the mobile terminal Favorites: List of favorites

DISPLAYING SOFTWARE VERSION

saved in the mobile terminal

 Go to menu Settings, Information, Software version.

DISPLAYING LICENSE INFOR-MATION

Go to menu Settings, Information, Licenses.

SETTING



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102 SETTING

MIRRORS Adjusting the mirrors



 Move mirror into desired position by pressing it lightly.

If the adjustment range of the mirror is insufficient for correct alignment, the position of the mirror arm must be adapted.

Adjusting the mirror arm



- Slide the protective cap 1 upwards over the threaded connection on the mirror arm.
- Unscrew nut 2 with suitable tool
- Turn the mirror arm into the desired position.

 Tighten the nut 2 to the specified torque while holding the mirror arm in place.



M10

16 lb/ft (22 Nm) (Left-hand thread)

• Slide protective cap **1** over threaded connection.

HEADLIGHTS

Headlight range and spring preload

The headlight range generally remains constant due to the adjustment of the spring preload to the load status. If you are not sure about the correct headlight range setting, contact a BMW Motorrad partner.

Adjusting the headlight range

 Remove the front-fairing panel. (*** 158)



In case of a high payload, you have to adjust the spring preload to maintain the correct beam height and avoid dazzling oncoming traffic. If the spring preload adjustment is insufficient, then the headlight range must also be corrected at the headlight.

- Adjust the headlight range using the adjustment screws 1.
- Install the front-fairing panel.
 (IIII) 158)

If the electric scooter is again ridden with a lower payload:

 Have the headlight base setting restored by a repair shop, preferably an authorized BMW Motorrad dealer.

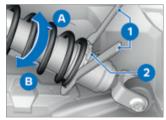
SPRING PRELOAD

Setting

It is essential to set the spring preload at the rear wheel to suit the load carried by the E-Scooter. Increase spring preload if the payload increases and reduce spring preload accordingly if the payload decreases

Adjust spring preload on the suspension strut

 Park the E-Scooter, making sure it is on level and firm ground.



- · Loosen lock nut 2.
- To increase the spring preload, turn the adjusting ring in the arrow direction **A** using the onboard toolkit **1**.
- To decrease the spring preload, turn the adjusting ring in the arrow direction **B** using the onboard toolkit **1**.

104 SETTING



Basic setting of spring preload, rear

Spring length in base setting 257.5 mm (with an 85 kg rider)

Spring length in base setting 257.5 mm (One-up without load)

Spring length in base setting 247.5 mm (One-up with load)

Spring length in base setting 227.5 mm (Two-up mode with load)

• Tighten lock nut 2.



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PRINCIPLE

The vehicle can be operated completely emission-free thanks to its electrical drive system.

The special high-voltage energy storage system supplies the electrical machine with power. The high-torque electrical machine ensures dynamic handling characteristics in all driving situations, such as, starting, accelerating and driving at high speeds.

The high-voltage energy storage system is charged via a charging cable, when parked, for example, or through energy recovery while riding.

Special power supplies allow for especially fast charging. But it is also possible to charge the vehicle using a common household power outlet, such as those found in residential buildings.

Energy recovery

The high-voltage energy storage system is charged during the journey through energy recovery. Energy recovery ensures that very little energy is lost during deceleration. When the vehicle slows down the electrical machine becomes

a generator and converts into electricity some or all of the energy of motion released. This partly recharges the high-voltage energy storage system, enabling the maximum possible range. This charging can occur while the vehicle is in motion with the throttle position closed or in energy recovery operation.

For detailed information on energy recovery by braking, see the "Riding" chapter (*** 127). The indicator in the instrument cluster is in the CHARGE field. Anticipatory driving and timely reduction of speed are important for utilizing the vehicle's energy recovery optimally.

GENERAL NOTES



DANGER

Improper handling of electrical power.

Injury or material damage, e.g. due to electric shock or fire.

Observe the safety regulations.



ATTENTION

Failure to check the charging equipment before operating the vehicle

Damage and excessive strain on the power supply

 Before the first charging procedure have your charging equipment checked by an electrical technician at the charging station.



CAUTION

Failure to adhere to the information at the charging station

Injury or damage as a result, for example, of electric shock or fire

 Adhere to the information at the charging station.



ATTENTION

Defective charging equipment

Risk of fire as a result, for example, of worn contacts or damage

 Only use charging equipment if there is no damage to it.



DANGER

Improper cleaning of charging connection.

Injury or damage as a result, for example, of electric shock or fire.

Have the charging connection cleaned by appropriately trained staff only.

Do not let the E-Scooter sit with a low state of charge for an extended period of time.

Before extended parking periods, check the charge state indicator to ensure that the high-voltage energy storage system is fully charged. The high-voltage energy storage system will be damaged if it is discharged too much.

If the range is below 19 miles (30 km), charge the high-voltage energy storage system. Otherwise the power of the electric drive could decline significantly.

What to do in the event of an accident



DANGER

Touching high-voltage lines after an accident.

Risk of death from electric shock.

 After an accident, do not touch high-voltage lines, such as the orange lines, or components that come into contact with exposed highvoltage lines.



CAUTION

Fluid escaping from the high-voltage energy storage system

Risk of chemical burn

 Do not touch fluids escaping from the high-voltage energy storage system.

If you are in an accident with your vehicle, the following safety precautions should be noted with respect to the highvoltage system:

- -Secure the accident scene.
- Immediately inform emergency services personnel, police officers or fire fighters

- that the vehicle has a high-voltage system.
- -Turn off standby mode.
- Do not inhale gases escaping from the high-voltage energy storage system. Maintain a distance to the vehicle if necessary.

CHARGING CABLE



DANGER

Use of charging cables that are not approved.

Injury or property damage, e.g. from fire in the electrical system.

- For charging, use only approved charging cables and charging stations.
- Ask your service center for information on approved cables.



ATTENTION

Improper use of the charging cable

Damage as a result, for example, of a cable fire

- Only use the charging cable to charge the E-Scooter.
- Do not extend the charging cable with other cables or adapters.



DANGER

Use of damaged charging cable.

Injury or damage as a result, for example, of electric shock or fire.

- Do not use damaged charging cables.
- Immediately discontinue use of damaged charging cables (e.g., if there is damage to the casing or cable).

Opening the charging cable components will lead to damage and loss of the warranty. Only the manufacturer can repair the charging cable or replace the components (connector, coupling or Incable Modul).

The high-voltage charging socket must be protected from moisture and dirt using the protective cap.

Depending on the nationalmarket version, different charging cables are required and included in the scope of delivery. The charging cable can be stored away in the helmet compartment.

As an alternative, use a permanently installed cable of a charging station.

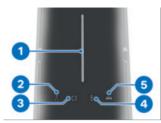
Standard charging cableThe standard charging cable

can be used to charge the vehicle at domestic socket outlets with a protective conductor. The electrical connection of a domestic socket outlet uses alternating current to charge the vehicle.

The detailed operating instructions of the standard charging cable must be observed.

Readings of the standard charging cable

The standard charging cable uses LEDs to indicate the status



- Status displays can also consist of a combination of LED icons. For more information, see the operating instructions of the charging cable.
- 1: LED status bar with color scheme:
- -Pulsating orange: Battery charger is starting up
- Continuously blue: Battery charger is ready for charging process
- Pulsating blue: Charging process is active
- 2: Temperature fault
- **3**: Charging station/domestic socket outlet fault
- 4: Charging cable fault
- 5: Vehicle fault

CHARGING PROCEDURE Before charging



DANGER

Failure to adhere to the power supply connection safety information.

Injury or damage as a result, for example, of electric shock or fire.

• See the safety information for the respective power supply connection.



ATTENTION

No adaptation of the charge current to the electrical grid

Risk of fire e.g. from overheating the domestic socket outlet or excessive load on the electrical grid

 Before charging at domestic socket outlets, check their maximum power rating and adapt the charge current limit to the electrical grid.

The charging procedure can be stopped at any time and continued at a later point so other consumers can use the power supply or to avoid high power consump-

tion as a result of simultaneous use by multiple consumers.

If the charging process is interrupted, e.g. by a temporary power failure, the charging process continues automatically after the interruption. If the interruption lasts more than 2 minutes, the charging process does not continue automatically.

If the outside temperatures are extreme, the charging process slows down to protect the high-voltage energy storage system.

The standard charging cable does not work in temperatures below -40 °F (-40 °C) or above 122 °F (50 °C). Before the charging process, store the charging cable in a location with an ambient temperature between -40 °F (-40 °C) and 158 °F (70 °C).

Using the charging compartment



- Open charging compartment flap 1 with handle 2.
- » The open charging compartment flap is not suitable for storage of objects.
- To close, press the charging compartment flap **1** into the lock with firm pressure.

Setting the charge current

- Turn on standby mode. (IIIII 56)
- Set the charge current in the menu Settings, Vehicle settings, Charging settings, Charging curr. limit.
- If the domestic socket outlet or the charging station supplies a deviating charge current, the respective lower charge current is used for charging.

Start charging procedure

- Turn off standby mode.(iii 57)
- The charging procedure will not start until standby mode has been turned off. If standby mode is turned back on during the charging procedure, the charging procedure will be interrupted.
- Open the charging compartment.



- Remove the charging socket cover 1.
- Remove the protective cap from the charging plug.

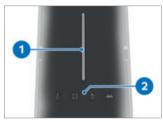
Λ

ATTENTION

No adaptation of the charge current to the electrical grid Risk of fire e.g. from overheating the domestic socket outlet or excessive load on the electrical grid

- Before charging at domestic socket outlets, check their maximum power rating and adapt the charge current limit to the electrical grid.
- Before charging at your own domestic socket outlet for the first time and when charging at someone else's domestic socket outlet, find out the permitted charge current level, e.g. from a qualified electrician. If the permitted charge current level is unknown, set the charging current limit to the lowest level.
- » The factory setting for the charging current limit is set to a charge current of 6 A.
- Where appropriate, set the charging current limit in the menu Settings, Vehicle settings, Charging settings, Charging curr. limit.

If the domestic socket outlet or the charging station supplies a deviating charge current, the respective lower charge current is used for charging.



- Connect the adapter cable to the domestic socket outlet or to the charging station, as applicable. If charging at a charging station, follow the instructions at the charging station.
- The standard charging cable automatically carries out all necessary test steps. If the LED 1 is lit blue after this, the test was successful. If one or more of the LED icons 2 are lit, the test was unsuccessful and the charging process cannot be started. If neither the LED 1 nor the LED icons 2 are lit, there is a fault. The charging cable must not be connected to the vehicle.

- » In case of fault messages, the following steps can help:
- Disconnect the standard charging cable from the voltage supply by pulling the connector out of the domestic socket outlet or charging station.
- Reconnect the connector after five seconds.
- » If the fault persists:



!\ DANGER

Use of damaged charging cable.

Injury or damage as a result, for example, of electric shock or fire.

- Do not use damaged charging cables.
- Immediately discontinue use of damaged charging cables (e.g., if there is damage to the casing or cable).
- Have the malfunction corrected as soon as possible at a repair shop, preferably an authorized BMW Motorrad dealer.



- Connect the charging cable 2 to the charging socket 1.
- The charging cable is electrically locked if standby mode is turned off or the vehicle is being charged.



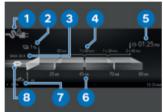
If standby mode is turned on, the note **2** appears. The icon **1** indicates that the charging cable is connected, but the charging process has not yet been started. Check the charging current limit and adjust it, if necessary.

- Turn off standby mode.
- » The charging process starts.

Displaying current state of charge

- Briefly press MENU.
- If the charging time is longer than expected, check the configured charging current limit.

Displays during the charging process



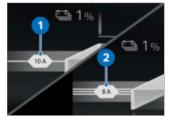
State of charge

- -Connector detection 1
- -State of charge 2
- -Maximum available charge rate 3 is displayed if the infrastructure provides a higher charge current than what is set in the vehicle.
- -Charging time prediction 4 indicates how long the vehicle must be charged to reach a certain range.
- Target time 5 shows the time until full charge. Based on the time displayed in the vehicle.
- -Range prediction 6
- -Range 7

-Active charging current limit 8

After a certain period of time, the display is switched to Stand-by-Modus (energy saving mode). The charging process is continued.

-with quick charger OE



The display shows whether charging is single-phase 1 or three-phase 2.



Displays at charging cable
If the LED 1 is pulsating blue,
the charging process is in
progress. If one or more LED
icons 2 are lit, there is a fault
and the charging process is
interrupted or impaired. For

more information, see the operating instructions of the charging cable.

End charging procedure Requirement

When ending the charging procedure, it is essential to follow the steps below in the sequence described.

Requirement

If you are charging your vehicle at a charging station, end the charging process at the charging station before detaching the charging cable.

- Turn on standby mode.
- » The charging cable is unlocked at the electric scooter.



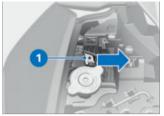
 Press the release button 3 and detach the charging cable 2 from the charging socket 1 on the F-Scooter.



- Attach the charging socket cover 1.
- Unplug the standard charging cable from the domestic socket outlet or the charging station, as applicable.
- Place the protective cap on the charging plug.
- Stow the standard charging cable in the helmet compartment or, if the charging cable is firmly attached to the charging station, put it in the designated place.

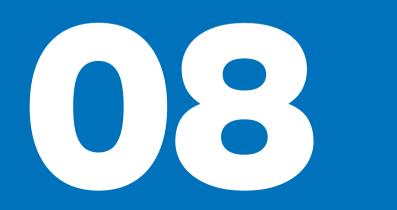
Performing emergency release of charging plug

 Remove the front-fairing panel. (IIII 158)



- Push the emergency release lever 1 in the arrow direction, if necessary using a suitable tool.
- » Charging plug unlocked.
- Install the front-fairing panel. (

 158)



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SAFETY INSTRUCTIONS

Modifications



ATTENTION

Modifications to the E-Scooter

Damage to the affected parts, failure of safety-relevant functions. Damage caused in this way is not covered by the warranty.

 Do not make any modifications.

Rider's equipment

Do not ride without the correct clothing! Always wear

- -Helmet
- -Rider's suit
- -Gloves
- -Boots

This applies even to short journeys, and to every season of the year. Your authorized BMW Motorrad dealer will be happy to advise you and has the correct clothing for every purpose.



WARNING

Seizure of loose textile fabrics, luggage items or straps in open running rotating vehicle parts (wheels, prop shaft)

Risk of accident

- Make sure that no loosely worn textile fabrics can get caught in open, running and rotating vehicle parts.
- Keep luggage items as well as tension belts and lashing straps away from open, running and rotating vehicle parts.

Vehicle load



WARNING

Reduced riding stability caused by overloading and uneven loading

Accident hazard

- Do not exceed the gross weight limit and observe the loading information.
- Adjust spring preload and tire pressure for the current gross vehicle weight.
- Observe the maximum payload of the helmet compartment.



Payload of the helmet compartment

max 18 lbs (max 8 kg)

- -with topcase OA
- Observe the maximum payload of the topcase.



Payload of Topcase

max 11 lbs (max 5 kg) \triangleleft

Speed

If you ride at high speed, always bear in mind that various marginal conditions can adversely affect the handling of the E-Scooter:

- -Settings of spring struts
- -Unevenly distributed load
- -Loose clothing
- -Insufficient tire pressure
- Tire tread in poor condition
- -Attached luggage systems, such as Topcase

Risk of poisoning



WARNING

Inhalation of vapors that are harmful to health

Damage to health

- · Do not inhale vapors from operating fluids and plastics.
- · Only use the vehicle outdoors.

Modifications



ATTENTION

Modifications to the E-Scooter

Damage to the affected parts, failure of safety-relevant functions. Damage caused in this way is not covered by the warrantv.

· Do not make any modifications.

OBSERVE CHECKLIST

 Use the following checklist to check your E-Scooter at regular intervals.

ALWAYS BEFORE RIDING OFF

Requirement

- Before every ride:
- Check the charge level of the high-voltage energy storage system.
- Check operation of the brake system.
- Check operation of the lighting and signal system.
- Check tire tread depth. (m 157)
- Check tire pressure. (→ 156)
- Make sure topcase and luggage are held securely.

AT EVERY 10TH CHARGING PROCEDURE

Requirement

At every 10th charging process:

- Check front brake pad thickness. (IIII 151)
- Check rear brake pad thickness. (IIII)
- Check the front and rear wheel brake fluid level.
 153)

ESTABLISHING RIDE READINESS

Pre-Ride-Check

After standby mode is turned on, the instrument cluster performs a test of the indicator and warning lights – what we call the "Pre-Ride-Check". Turning on ride readiness before the test is completed will cancel the remainder of the test.

Phase 1

All indicator and warning lights are switched on.

After a longer standstill of the vehicle, an animation is displayed during the system start.

Phase 2

The general warning light changes from red to yellow.

Phase 3

All of the indicator and warning lights that have been turned on are turned off in reverse order.

If one of the indicator and warning lights was not turned on:

 Have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Depending on the riding mode or its configuration, the intervention of electronic stability control systems can be restricted.

Possible restrictions are displayed as a pop-up message, e.g. Caution! ABS & DTC setting.

The ABS indicator light flashes irregularly.

You can find more detailed information regarding road handling control systems such as ABS and DTC in the "Technology in detail" chapter.

ABS self-diagnosis

The self-diagnosis routine determines whether BMW Motorrad ABS is ready for operation. The self-diagnosis routine runs automatically when you turn on standby.

Phase 1

» System components are checked when the vehicle is stationary.



blinks.

Phase 2

- » System components are checked when the vehicle is being driven.
- -ABS self-diagnosis completed. The ABS symbol is no longer displayed.
- Check the display of all indicator and warning lights.



ABS self-diagnosis not completed

The ABS function is not available, as the self-diagnosis function has not been completed. (The E-Scooter must reach a specified minimum speed before the system can check operation of the wheel speed sensors: min 3 mph (min 5 km/h))

If an ABS error is displayed after the ABS self-diagnosis is completed:

- You may continue riding. It must be noted that the availability of the ABS function is limited or it is not available at all
- Have the fault rectified as soon as possible by an authorized BMW Motorrad retailer.

ASC/DTC self-diagnosis

The self-diagnosis routine is determining whether BMW Motorrad ASC/DTC is ready for operation. The self-diagnosis routine runs automatically when you turn on standby.

Phase 1

» Checking system components capable of diagnosis while vehicle is at a standstill.



flashes slowly.

Phase 2

» Checking system components capable of diagnosis when ridina off.



flashes slowly.

ASC/DTC self-diagnosis completed

- » The ASC/DTC symbol is no longer displayed.
- Watch all warning and indicator lights on the display.

ASC/DTC self-diagnosis not completed

The E-Scooter must reach a specified minimum speed when ride readiness is turned on before the system can check operation of the wheel speed sensors:

min 3 mph (min 5 km/h)

If an ASC/DTC fault is displayed after the ASC/DTC selfdiagnosis is completed:

- You may continue riding. It must be noted that the ASC/ DTC function is not available.
- Have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

E-Scooter ready for operation

After carrying out the Pre-Ride-Check and the ABS self-diagnosis, the E-Scooter is operational for all electricity consumers.

In order to conserve the 12 V battery, only use active power consumers for as long as absolutely necessary and deactivate operating readiness.

RIDING THE ELECTRIC SCOOTER

E-Scooter operational



The E-Scooter is operational when the start button is pressed while the brake is applied. The drive display appears and READY is displayed. All systems are operational. Pressing the emergency-off switch will deactivate the E-Scooter.

When temperatures are low, the power output and input are impaired.

In exceptional cases, the high-voltage energy storage system may heat up significantly while the vehicle is not

in motion (i.e. in extreme outside temperatures and direct sunlight). If the high-voltage energy storage system is overheated, the E-Scooter is not ready to ride.

Very high temperatures (over 95 °F (35 °C)) impede the service life of the battery cells. If the highvoltage energy storage system overheats while riding, the drive power is successively reduced to cool down the highvoltage energy storage system. Th power gauge POWER in the instrument cluster decreases during this process. If the temperature continues to rise, park the vehicle until the high-voltage energy storage system has cooled down. If the power gauge drops to 0, the E-Scooter is not ready to ride, and the vehicle comes to a standstill.

Switching on ride readiness

- Turn on standby mode. (→ 56)
- » Pre-Ride-Check is carried out. (124)
- » ABS self-diagnosis is performed. (■ 125)

Apply the brake.



• Press starter button 1.

Standby cannot be established while the side stand is extended. If the side stand is extended with standby turned on, standby is disabled.

- » E-Scooter is operational.
- » If the E-Scooter is not operational, the troubleshooting chart may be of assistance.
 (IIII 186)

Riding with ePOWER



WARNING

Reduced awareness of the E-Scooter in electric mode.

Accident hazard

- With driving in electric mode, pedestrians and others on the road may not as aware of the E-Scooter because of its lack of engine noise.
- Drive with particular care.

Energy recovery through deceleration

The high-voltage energy storage system is partially recharged through energy recovery. During deceleration, the electrical machine functions like a generator and converts kinetic energy into electrical energy.

Deceleration depends on the riding mode and the position of the E-gas electronic throttle twistgrip. The less the E-gas electronic throttle twistgrip is twisted, the greater the deceleration. This recovers energy and charges the high-voltage energy storage system. If the E-gas electronic throttle twistgrip is not twisted at all, the deceleration will be similar to light braking.

Energy can be recovered if the following conditions are met:

- =E-Scooter is in motion.
- -Speed greater than Approx. 3 mph (Approx. 5 km/h).

Energy cannot be recovered in the following situations:

- The high-voltage energy storage system is completely charged.
- The temperature of the highvoltage energy storage system

is very low or very high. In the winter or summer, energy recovery may not be available temporarily after starting the vehicle.



WARNING

When there is no energy recovery, the electric drive cannot be braked. The E-Scooter could coast further than expected.

Accident hazard

 Always be prepared to brake.

Driving situations for deceleration

If deceleration is likely while driving, this can be used for energy recovery. The following driving situations may be suitable for this purpose:

- Deceleration on a route segment on a slope
- Deceleration before a red light

Avoid late or heavy braking. Instead, decelerate the vehicle using energy recovery.

BREAKING IN

Brake pads

New brake pads must be run in before they achieve their optimum friction force. This reduction in braking effect can be compensated for by exerting greater pressure on the brake levers.



WARNING

New brake pads

Extension of the braking distance, accident hazard
• Brake early.

Tires

New tires have a smooth surface. They must be roughened by breaking in at varying lean angles in a restrained manner. This breaking-in procedure is essential if the tire tread is to achieve maximum grip.



WARNING

Loss of adhesion of new tires on wet roads and at extreme angles

Accident hazard

 Always think well ahead and avoid extreme angles.

BRAKES

How do you achieve the shortest braking distance?

The dynamic load distribution between the front and rear wheel changes during the braking process. The more pressure you apply to the brake, the greater the load transfer to the front wheel. Increases in the load on an individual wheel are accompanied by a rise in the effective brake force that the wheel can provide.

To achieve the shortest possible braking distance, the front wheel brake must be applied quickly and with progressively greater levels of force. This procedure provides ideal utilization of the dynamic load increase to the front wheel. If the brake pressure is applied abruptly and with a lot of force, the dynamic load distribution may not be in line with the increased deceleration, and the brake force cannot be fully transmitted to the road.

Descending mountain passes



WARNING

Braking only with the rearwheel brake when descending mountain passes.

Loss of braking action. Destruction of the brakes caused by overheating.

 Use both front and rear brakes, and make use of energy recovery as well.

For more information about energy recovery, see the "Technology in detail" chapter starting on page (141).

Wet, soiled brakes



WARNING

Decreased braking effect due to moisture and dirt

Risk of accident

- Dry brakes or clean them through braking; if necessary, clean them manually.
- Brake early until the tires have reached their full braking effect again.

Moisture and dirt on the brake discs and the brake pads result in a decrease in the braking effect.

Delayed or decreased braking effect must be expected in the following situations:

- —When riding in the rain and through puddles.
- -After washing the vehicle.
- -When riding on salted roads.
- After working on the brakes due to oil or grease residues.
- -When riding on soiled roads or offroad.

PARKING THE E-SCOOTER Side stand

Turn off ride readiness.



ATTENTION

Poor ground conditions in area of stand

Component damage cause by tipping over

- Always check that the ground under the stand is level and firm.
- Fold out the side stand and park the E-Scooter.
- » When the side stand is folded out, the emergency brake is automatically engaged. This

prevents the vehicle from rollina.



ATTENTION

Loading of the side stand with additional weight

Component damage cause by tipping over

- Do not sit on the motorcycle when it is parked on the side stands.
- Turn handlebars to left.

Center stand

-with center stand OE

Turn off ride readiness.



ATTENTION

Poor ground conditions in area of stand

Component damage cause by tipping over

 Always check that the ground under the stand is level and firm.



ATTENTION

Folding in the center stand in case of strong movements Component damage cause by tipping over

- Do not sit on the vehicle while it is resting on the center stand.
- Fold out the center stand and prop up the E-Scooter. When doing so, lift the E-Scooter only by the passenger grab handles or the grab handles on the topcase carrier.

FASTENING THE E-SCOOTER FOR TRANSPORTATION

Protect all component surfaces against which tensioning belts are routed from scratching (e.g. using adhesive tape).





ATTENTION

Motorcycle tips to the side when raising

Component damage cause by tipping over

- Secure the motorcycle against tipping to the side, preferably with the assistance of a second person.
- Push the E-Scooter onto the transportation flat and hold it in position; do not place it on the side stand or center stand.





ATTENTION

Pinching of components

Component damage

- Do not pinch components, e.g. brake lines or wiring harnesses.
- Lay tensioning belts at front over lower fork bridge on both sides and tension.



· Secure the right rear tensioning belt at the retaining plate of the footrest.



- Secure the rear left tensioning belt at the retaining plate of the footrest.
- Tension all tensioning belts evenly; the E-Scooter should be pulled down with maximum spring compression.

TECHNOLOGY IN DETAIL



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GENERAL NOTES

More information on the topic of technology is available at **bmw-motorrad.com/technik**.

ANTILOCK BRAKING SYSTEM (ABS)

How does ABS work?

The maximum braking force that can be transferred to the road is partially dependent on the coefficient of friction of the road surface. Gravel, ice, snow and wet roads offer a considerably poorer coefficient of friction than a dry, clean asphalt surface. The poorer the coefficient of friction of the road is, the longer the braking distance will be.

If the maximum transferable braking force is exceeded when the driver increases the brake pressure, the wheels begin to lock and driving stability is lost, and a fall can occur. Before this situation occurs, ABS intervenes and adjusts the brake pressure to the maximum transferable braking force. This enables the wheels to continue to turn and maintains riding stability regardless of the road condition.

What happens when rough roads are encountered?

Bumpy or rough roads can briefly lead to a loss of contact between the tires and the road surface, until the transferable braking force is reduced to zero. If the brakes are applied in this situation, the ABS must reduce the brake pressure to ensure riding stability when road contact is restored. At this point, the BMW Motorrad ABS must assume extremely low coefficients of friction (gravel. ice, snow) so that the running wheels turn in every imaginable case and the riding stability is ensured. After detecting the actual conditions, the system adjusts the optimum brake pressure.

Lifting off rear wheel

During extremely heavy and rapid decelerations, however, it is possible under certain circumstances that the BMW Motorrad Antilock Brake System cannot prevent the rear wheel from lifting off the ground. In these cases, the electric scooter can also flip end over end.

WARNING

Lifting off of the rear wheel due to heavy braking

Accident hazard

 When braking heavily, bear in mind that the ABS control cannot always be relied on to prevent the rear wheel from lifting off the ground.

What are the design characteristics of the BMW Motorrad ABS?

The BMW Motorrad ABS ensures riding stability on any surface within the limits of riding physics.

From a speed greater than 2.5 mph (4 km/h), the BMW Motorrad ABS can ensure riding stability on any surface within the limits of riding physics. At lower speeds, the BMW Motorrad ABS cannot provide optimal support on all surfaces due to system limitations.

The system is not optimized for the special requirements encountered under the extreme conditions of competitive offroad and racetrack use.

Special situations

To detect the tendency of the wheels to lock up, the speeds of the front and rear wheel are compared. If implausible values are detected over a longer period of time, the ABS function is switched off for safety reasons, and an ABS error is displayed. A self-diagnosis must be completed before the fault memory entry can be displayed. Apart from problems with the BMW Motorrad ABS, unusual riding conditions can also cause a fault memory entry to be generated:

- -Riding on the rear wheel (wheelie) for an extended period.
- Rear wheel spinning in place with front wheel brake engaged (burn out).
- Rear wheel locked-up for a longer period of time by engine brake, e.g. when riding downhill on slippery surfaces.

Should a Check Control message occur due to an unusual driving condition, the ABS function can be reactivated by switching standby mode off and then on again.

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How important is regular preventive maintenance?



WARNING

Brake system not regularly serviced

Accident hazard

 To ensure that the BMW Motorrad ABS is in a properly maintained condition, it is vital that the specified service intervals are kept to.

Reserves for safety

The potentially shorter braking distances that the BMW Motorrad ABS permits must not be used as an excuse for careless riding. ABS is primarily a means of ensuring a safety margin in genuine emergencies.

Be careful on curves! When you apply the brakes on a curve, the motorcycle's weight and momentum take over and even the BMW Motorrad ABS is unable to counteract their effects.

Further development of ABS to ABS Pro

-with riding modes ProOE

In the past, the BMW Motorrad ABS system provided for a very high level of safety while braking during straight-ahead riding. Now ABS Pro also offers increased safety even when braking in curves. ABS Pro prevents the wheels from locking up, even if the brakes are applied guickly. ABS Pro reduces abrupt changes in steering forces, especially during shock braking, and therefore decreases the risk of the vehicle lifting off the ground inadvertently.

ABS control

From a technical standpoint, ABS Pro adapts the ABS control to the angle of inclination of the electric scooter depending on the respective riding situation. Signals for the roll and yaw rate and the lateral acceleration are used to determine the inclination of the electric scooter.

With an increasing inclination, the brake pressure gradient is increasingly limited at the start of braking. This results in a slower pressure buildup. In addition, the pressure modulation in the range of the ABS control is more uniform.

Advantages for the rider

The advantages of ABS Pro for the rider are sensitive response and high braking and riding stability with the best possible deceleration, even in curves.

TRACTION CONTROL (ASC/DTC)

How does traction control work?

Traction Control is available in two versions

- Without taking the angle into account: Automatic Stability Control (ASC)
- -ASC is a rudimentary function intended to prevent falls.
- With taking the angle into account: Dynamic Traction Control (DTC)
- The additional inclined position and acceleration information enables the DTC to make more precise and comfortable adjustments.

The traction control compares the wheel centrifugal velocities of the front and rear wheels. The slip, and with it the stability reserves at the rear wheel, are determined from the speed difference. The engine control adapts the engine torque when the slip limit is exceeded. The BMW Motorrad ASC/DTC is designed as an assistance system for the rider and for riding on public roads. The extent to which the rider affects ASC/DTC control can be considerable (weight shifts when cornering, loose luggage on the motorcycle), especially when approaching the limits imposed



WARNING

by the laws of physics.

Risky riding style

Accident hazard despite ASC/

- The rider is always responsible for adapting his/her driving style.
- Do not reduce the system's extra safety margin with careless riding or unnecessary risks.

Special situations

As the lean angle increases, the capacity to accelerate is also increasingly limited by the laws of physics. This can result in reduced acceleration when coming out of very tight curves.

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To detect spinning or slipping away of the rear wheel, the speeds of the front and rear wheel are compared and the angle with DTC is taken into account compared to ASC, among other measures.

—with riding modes ProOE

If the values for the lean angle are detected to be implausible for a long period, a substitute value is used for the angle, or the DTC function is turned off. In these cases, a DTC error is displayed. A self-diagnosis must be completed before the fault memory entry can be displayed.

Under the following unusual riding conditions, BMW Motorrad Traction Control may be deactivated automatically.

Unusual riding conditions:

- -Riding on the rear wheel (wheelie) for an extended period.
- Rear wheel spinning in place with front wheel brake engaged (burn out).
- Warm-up on an auxiliary stand

Minimum speed for DTC activation

min 3 mph (min 5 km/h)

—with riding modes ProOE

If the front wheel loses contact with the ground under extreme acceleration, the DTC reduces the engine torque in all riding modes until the front wheel makes contact with the ground again.

RMW Motorrad recommends

that you respond to the front wheel lifting off by easing off the E-gas electronic throttle twistgrip somewhat to return to a stable riding condition as quickly as possible. In the ECO riding mode, the DTC setting corresponds to the ROAD riding mode. In the RAIN, ROAD and

DYNAMIC riding modes, the DTC setting corresponds to the riding mode.

RECUPERATION STABILITY CONTROL (RSC)

How does the energy recovery stability control work?

The purpose of the energy recovery stability control is to safely prevent unstable riding conditions that are related to excess energy recovery torque at the rear wheel. Depending on the road condition and riding dynamics, excess energy recovery torque can make the slip at the rear wheel increase severely and impede riding stability. The energy recovery stability control limits excess slip at the rear wheel to a safe target slip dependent on the ridina mode.

Causes of excess slip at the rear wheel:

- Riding in energy recovery operation on road with low coefficient of friction (e.g. wet leaves).
- Hard brake onset in sporty riding style.

Like the BMW Motorrad DTC traction control, the energy recovery stability control compares the wheel centrifugal velocity of the front and rear wheel, which are calculated from the wheel RPM and the tire radius. The energy recovery stability control can determine the slip, and therefore the stability reserve, on the rear wheel using the speed difference.

If the slip exceeds the respective limit value, the energy recovery torque is reduced. The slip is reduced, and the vehicle is stabilized.

Effect of the energy recovery stability control

- -In ECO, RAIN and ROAD riding modes: Maximum stability.
- -with riding modes ProOE
- In DYNAMIC riding mode: Reduced intervention when compared to the RAIN and ROAD riding modes.

RIDING MODE

Selection

To adapt the electric scooter to the road condition and the desired riding experience, you can select from the following riding modes:

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Series

- -ECO
- -RAIN
- -ROAD (standard mode)

-with riding modes Pro OE
With Pro riding modes
-DYNAMIC

For each of these riding modes, there is a coordinated setting for the ABS and DTC systems, energy recovery stability control, throttle response and brake energy recuperation.

Throttle response

- -In ECO riding mode: restrained throttle response and reduced torque.
- In the RAIN riding mode: Soft throttle response.
- -In the ROAD riding mode: Optimal throttle response.
- -with riding modes ProOE
- -In the DYNAMIC riding mode: Direct throttle response.

Energy recovery

- In the RAIN and ROAD riding modes: medium energy recovery by braking the vehicle.
- In the ECO riding mode: maximum energy recovery by braking the vehicle.

- -with riding modes ProOE
- In the DYNAMIC riding mode: maximum energy recovery by braking the vehicle.

ARS

- -Rear wheel lift-off detection is active in all riding modes.
- In the ECO, RAIN, ROAD and DYNAMIC riding modes, the ABS is set for road use.

-with riding modes Pro^{OE} **ABS Pro**

-ABS Pro is available in all riding modes to the full extent. The stand-up tendency the E-Scooter has when braking in curves is reduced to a minimum.

DTC

Tires

-DTC is attuned for road use with road tires in all riding modes.

Riding stability

- In the RAIN riding mode, the DTC intervenes early enough to ensure maximum riding stability is achieved.
- In the ECO and ROAD riding modes, the intervention of the DTC occurs later than in the RAIN riding mode. Rear wheel spinning without trac-

tion is avoided wherever possible.

- In the DYNAMIC riding mode, the DTC intervenes at a later point than in the ROAD riding mode. Rear wheel spinning without traction is avoided wherever possible.
- In all riding modes, the front wheel is prevented from liftoff

Switchover

Riding modes can be changed during a standstill with standby mode turned on or while riding.

First, the desired riding mode is preselected. The switchover does not take effect until the affected systems are in the required state.

The Selection menu does not disappear from the display until the riding mode has been switched over.

ECO mode

Maximum energy recovery as the vehicle decelerates with limited acceleration is achieved in ECO mode. ECO mode is designed for maximum range.

DYNAMIC BRAKE CONTROL

-with riding modes ProOE

Dynamic Brake Control function

The Dynamic Brake Control function helps the rider in the event of emergency braking.

Detection of emergency braking

 Emergency braking is detected when the front wheel brake is applied quickly and with force.

Behavior during emergency braking

If emergency braking is applied at a speed of more than min 6 mph (min 10 km/h), then in addition to the ABS function the Dynamic Brake Control function will also be activated.

Behavior in the event of accidental actuation of the E-gas electronic throttle twistgrip

—If the E-gas electronic throttle twistgrip is accidentally actuated during emergency braking (twist grip position >5%), the intended braking effect is ensured by the Dynamic Brake Control ignoring the opening process of the E-gas

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electronic throttle twistgrip. This ensures the effectiveness of emergency braking.

- If the gas is shut off (throttle position <5%) during the intervention of the Dynamic Brake Control, the engine torque required by the ABS brake system will be restored.
- —If the emergency braking is stopped and the E-gas electronic throttle twistgrip is still under actuation, the Dynamic Brake Control reduces the electrical machine torque as required by the rider in a controlled manner.

TIRE PRESSURE MONITOR (RDC)

-with tire pressure monitor (TPM) OE

Function

A sensor located in each tire monitors the air temperature and the tire pressure and transmits this information to the control unit.

The sensors are equipped with a centrifugal controller, which does not enable the transmission of the measured values until the minimum speed is exceeded for the first time.

Minimum speed for the transmission of the RDC measured values:

min 19 mph (min 30 km/h)

Before initial reception of the tire pressure, — is shown in the display for each tire. The sensors continue to transmit the measured readings for some time after the vehicle comes to a stop.

Transmission time of the measured values after vehicle standstill:

min 15 min

If an RDC control unit is installed but the wheels have no sensors, a fault memory entry is generated.

Tire inflation pressure ranges

The RDC control unit distinguishes between three inflation pressure ranges matched to the motorcycle:

- Tire pressure within the permissible tolerance.
- Tire pressure in the limit range of the permissible tolerance.
- Tire pressure outside the permissible tolerance.

Temperature compensation

The tire pressure is temperature-dependent: it increases or decreases together with the tire air temperature. The tire temperature is dependent on the outside temperature, the riding style and the length of the journey.

The tire pressures are shown in the TFT display with temperature compensation and are always based on the following tire air temperature:

68 °F (20 °C)

Tire pressure gauges at gas stations do not make any compensation for the tire air temperature, the tire pressure indicated depends on the temperature of the air in the tire. As a result, in most cases the values displayed there do not match the values shown in the TFT display.

Tire pressure adjustment

Compare the RDC value in the TFT display with the value on the back cover of the Rider's Manual. The difference between the two values must be compensated with the tire inflation pressure tester at the filling station.

Example

According to the Operating Instructions, the tire pressure should have the following value:

36.3 psi (2.5 bar)

The following value is displayed in the TFT display:

33.4 psi (2.3 bar)

The shortfall is thus:

2.9 psi (0.2 bar)

The tester at the filling station shows:

34.8 psi (2.4 bar)

To produce the correct tire pressure, this must be increased to the following value:

37.7 psi (2.6 bar)

ADAPTIVE HEADLIGHT

-with Adaptive Lights OE

How do the adaptive headlights work?

The standard installed dimming unit in the headlight consists of two reflectors that generate low-beam headlights using LED. Ride height sensors at the front and rear wheel suspension provide data for continuous headlight range control. Thanks to the pitching

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compensation, the light always illuminates the optimal, preset area when riding on straight stretches of road, regardless of the riding conditions and load status. Using Adaptive Headlights, the dimming unit additionally rotates around an axis. depending on the angle, and compensates for the angle of roll of the vehicle. The angle of rotation is 70° (±35°). In addition to the pitching compensation, therefore, the lowbeam headlight is adjusted to compensate for the lean angle during riding. Both movements are overlaid so that a highlight in the curve results. This results in significantly improved illumination of the road when riding around curves and thus an enormous increase in active safetv.



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GENERAL NOTES

The "Preventive maintenance" chapter describes work for checking and replacing wear parts that can be performed with a minimum of effort. If specific tightening torques are to be taken into account for installation, these are listed. An overview of all required tightening torques is contained in the chapter "Technical data".

Microencapsulated screws

The microencapsulation is a chemical threadlocker. An adhesive is used to create a solid connection between screw and nut or component. Microencapsulated screws, therefore, are suitable for single use only. After removal, the internal thread must be cleaned to remove adhesive. During installation, a new microencapsulated screw must be used. Therefore, before removal, ensure that you have suitable tools for cleaning the thread and have a replacement screw. If you carry out the work improperly, the locking function of the screw might no longer be guaranteed, which puts you in danger!

Special tools and thorough specialized knowledge are required to carry out some of the work described here. If you are in doubt, consult a repair shop, preferably your authorized BMW Motorrad dealer.



DANGER

Improperly performed preventive maintenance and repair procedures.

Mortal hazard from electric shock.

- Special tools and thorough specialized knowledge are required to carry out tasks not described here.
- Only carry out tasks that are described in this chapter.
 Carry out the described tasks only with standby turned off. If in doubt, contact a repair shop, preferably an authorized BMW Motorrad dealer.



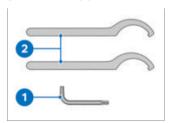
DANGER

Working with the high-voltage system.

Risk of death

- The vehicle high-voltage system is a self-contained system. It is safe as long as no work is performed on the technical components.
- Modifications and work on the high-voltage system should only be performed by a BMW Motorrad partner with appropriately trained staff.

STANDARD TOOL KIT



- 1 TORX wrench, T25

 Remove trim panel components.
- 2 Hook wrench
 - Adjust the spring preload on the suspension strut.
 (IIII) 103)

BRAKE SYSTEM

be felt.

Checking brake function

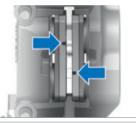
- Operate right brake lever.
- » A clear resistance point can
- Operate left brake lever.
- » A clear resistance point can be felt.
- To check the parking brake, fold out the side stand and push the E-Scooter back and forth.
- » The E-Scooter will not move. If no clear resistance points can be felt and the scooter can be moved:
- Have the brakes checked by an authorized BMW Motorrad dealer

Checking the front brake pad thickness

 Park the electric scooter, making sure it is on level and firm ground.



 Visually inspect the left and right brake pads to ascertain their thickness. Direction of view: from rear, looking at brake pads 1.



Front brake-pad wear limit

min 0.22 in (min 5.6 mm) (Friction lining with carrier plate)

If the wear marks, i.e. the grooves, are no longer clearly visible:



WARNING

Dropping below the minimum pad thickness

Reduced braking action, damage to the brake

- In order to ensure the operating reliability of the brake system, make sure that the brake pads are not worn beyond their minimum thickness.
- Have brake pads renewed at a repair shop, preferably an authorized BMW Motorrad dealer.
- BMW Motorrad recommends only installing genuine brake pads.

Checking the rear brake pad thickness

 Park the E-Scooter, making sure it is on level and firm ground.



 Conduct a visual inspection of the brake pad thickness.
 Direction of view: from rear toward brake caliper 1.



Rear brake-pad wear

min 0.18 in (min 4.5 mm) (Friction lining with carrier plate)

If the wear marks have been reached:



Dropping below the minimum pad thickness

Reduced braking action, damage to the brake

- In order to ensure the operating reliability of the brake system, make sure that the brake pads are not worn beyond their minimum thickness.
- Have brake pads renewed at a repair shop, preferably an authorized BMW Motorrad dealer.
- BMW Motorrad recommends only installing genuine brake pads.

Checking the front and rear wheel brake fluid level

• The brake fluid level can be checked at the sight glasses of the brake fluid reservoirs. The brake fluid reservoir for the front wheel brake is on the right; the brake fluid reservoir for the rear wheel brake is on the left.



N WARNING

Insufficient or contaminated brake fluid in the brake fluid reservoir

Considerably reduced braking power caused by air, dirt or water in the brake system

- Stop riding immediately until fault is rectified.
- Check brake fluid level regularly.
- Make sure that the lid of the brake fluid reservoir is cleaned before opening.
- Make sure that brake fluid is used from a sealed container only.
- Park the E-Scooter, making sure it is on level and firm ground.
- Align the handlebars so that the brake fluid reservoir is positioned horizontally.



 Read off the brake fluid level from the sight glass 1 of the left/right brake fluid reservoir.

The brake fluid level in the brake fluid reservoir drops due to brake pad wear.



T!

Brake fluid level

Brake fluid, DOT4

The brake fluid level must not fall below the **MIN** mark. (Brake fluid reservoir horizontal)

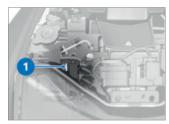
If the brake fluid level falls below the approved level:

 Have the fault rectified as soon as possible by a repair shop, preferably an authorized BMW Motorrad dealer.

COOLANT

Checking the coolant level

- Park the E-Scooter, making sure it is on level and firm ground.
- Remove the front-fairing panel. (*** 158)



Check the coolant level 1 visually.





Between **MIN** and **MAX** mark (when the coolant circuit is cold)

If the coolant level drops below the permitted level:

- Top up the coolant or have it topped up by an authorized BMW Motorrad dealer as quickly as possible.
- Install the front-fairing panel.
 (IIII) 158)

Topping up coolant

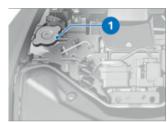


WARNING

Opening the radiator cap Risk of burning

- Do not open the radiator cap when it is hot.
- Check the coolant level exclusively at the expansion tank and top up if necessary.

- Remove the front-fairing panel. (*** 158)
- Let cool down drivetrain and cooling system.



- Open the cap 1.
- Top up coolant to specified level.

Coolant frost resistance

min -13 °F (min -25 °C)

Coolant top-up quantity

0.1 quarts (0.07 I)

- Check the coolant level.
 (IIII) 155)
- Close the expansion tank cap.
- Install the front-fairing panel.
 (IIII) 158)

TIRES

Checking tire pressure



WARNING

Incorrect tire inflation pressure.

Deteriorated driving characteristics of the Scooter. Reduction of the life of the tires.

• Ensure proper tire inflation pressure.



WARNING

Automatic opening of vertically installed valve inserts at high speeds

Sudden loss of tire inflation pressure

- Use valve caps with rubber sealing ring and screw on firmly.
- Check tire pressure against data below.

Front tire pressure

33.4 psi (2.3 bar) (One-up mode, with cold tires)

33.4 psi (2.3 bar) (Two-up mode with load, with cold tires)

Rear tire pressure

36.3 psi (2.5 bar) (One-up mode, with cold tires)
36.3 psi (2.5 bar) (Two-up mode with load, with cold tires)

If tire pressure is too low:

• Correct the tire pressure.

RIMS AND TIRES

Checking rims

- Park the E-Scooter, making sure it is on level and firm ground.
- Visually inspect rims for defects.
- Have damaged rims checked by an authorized BMW Motorrad dealer and, if necessary, renewed.

Checking tire tread depth



WARNING

Riding with heavily worn tires

Risk of accident due to poorer rideability

 If necessary, replace the tires before the legally specified minimum tread depth is reached.

- Park the E-Scooter, making sure it is on level and firm ground.
- Measure tire tread depth in main tread grooves with wear marks.

Wear marks are integrated into the main grooves on every tire. If the tire tread has worn down to the level of the marks, the tire is completely worn. The locations of the marks are indicated on the edge of the tire, e.g. by the letters TI, TWI or by an arrow.

When the minimum tread depth is reached:

Replace the worn tire.

Tire recommendation

For every tire size, BMW Motorrad has tested and approved certain tire brands as roadworthy. BMW Motorrad cannot evaluate the suitability of any other tires, and therefore cannot take responsibility for their riding safety.

BMW Motorrad recommends only using the tires tested and approved by BMW Motorrad. Your authorized BMW Motorrad dealer can provide you with more detailed information.

LIGHT SOURCES Replacing the LED ligh

Replacing the LED light source



WARNING

Overlooking the vehicle in road traffic due to failure of the lighting on the vehicle Safety risk

 Replace defective lighting as soon as possible. Please contact a repair shop for this purpose, preferably an authorized BMW Motorrad dealer.

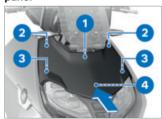
All light sources on the vehicle are LED light sources. The service life of the LED light sources is longer than the assumed service life of the vehicle. If an LED light source is faulty, please contact a repair shop, preferably an authorized BMW Motorrad dealer.

TRIM PANEL COMPONENTS Removing the front-fairing panel



- Pull the front-fairing panel 1 forward by the handle centered under the windshield for this purpose.
- Detach the front-fairing panel 1 from the detents 2.
- Remove the front-fairing panel 1 in the forward direction.

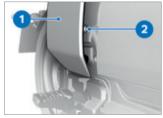
Installing the front-fairing panel



 Position front-fairing panel 1 in arrow direction.

- Feed in front-fairing panel 1 using the guides 3 and 4.
- Clip the front-fairing panel 1 into the clips 2 with gentle pressure.

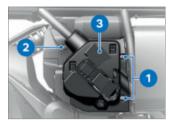
Removing side trim panel



- Remove screw 2.
- Remove side trim panel 1.

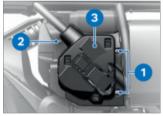


- Remove the battery cover **1** in the arrow direction.
- Remove screws 2.



- Remove screws 1.
- Push back the trim panel component and remove the screw 2.
- Remove the cover 3.

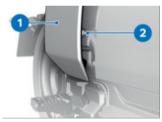
Installing side trim panel



- Position cover 3.
- Push back the trim panel component and install the screw 2.
- Install screws 1.



- Install screws 2.
- Position battery cover 1.
- Push the battery cover 1 in arrow direction with pressure from above; the detent must snap in audibly.
- Check the battery cover 1 for firm fit.



- Snap in the side trim panel 1 with the detents.
- Install screw 2.

BATTERY

General notes

Correct maintenance combined with proper charging and storage procedures extends the 12 V battery's service life, and is also required for warranty claims.

Compliance with the points below is important in order to maximize the 12 V battery life:

- -Keep the surface of the battery clean and dry.
- Be sure to read and comply with the instructions for charging the battery on the following pages.
- -Do not turn the battery upside down.

Recharging function

If the state of charge of the 12 V battery falls below a defined threshold value, the recharging function is activated. The 12 V battery is then recharged by the high-voltage battery via the DC/DC converter. This ensures a sufficient state of charge of the 12 V battery.

The recharging function is active in the following situations:

-While the vehicle is in motion: The 12 V battery is recharged if necessary.

- During the charging process:
 The 12 V battery is recharged in addition to the high-voltage battery.
- During periods of parking:
 The state of charge of the
 12 V battery is checked every other day and recharged if necessary. During recharging, noises of the fan and coolant pump may be audible.

If the 12 V battery had to be recharged three times in a row while parked for an extended period, On-board battery state. No restrictions. Have battery checked by a specialist workshop. appears when you turn on standby mode. Further information in the "Displayed values" chapter.

If the state of charge of the high-voltage battery falls below a critical threshold value, the 12 V battery cannot be recharged. A sufficient state of charge of the high-voltage battery must be ensured so that the recharging function can always be activated as necessary.

Charge 12 V battery



ATTENTION

Charging of the connected 12 V battery on the battery terminals

Damage to the vehicle's electronics

 Disconnect the 12 V battery before charging on the battery terminals.



ATTENTION

Charging a fully discharged 12 V battery using the 12 V power socket

Damage to vehicle electronics

A fully discharged 12 V battery (battery voltage less than 12 V; indicator lights and multifunction display remain off when ignition is switched on) must always be charged directly at the terminals of the battery when disconnected.



ATTENTION

Improper battery chargers connected to a socket

Damage to battery charger and vehicle electronics

- Use suitable BMW battery chargers. You can obtain the right charger from your authorized BMW Motorrad dealer
- Charge connected battery via onboard power socket.
- The motorcycle's onboard electronics know when the battery is fully charged. The onboard socket is switched off when this happens.
- Comply with operating instructions of charger.

If you are unable to charge the battery via the onboard power socket, you may be using a charger that is not compatible with your electric scooter's electronics. In this case, charge the battery directly from the terminals of the battery disconnected from the vehicle.

The E-Scooter cannot be driven or operated. Check whether the 12 V battery is discharged completely:

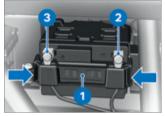
- Turn on standby mode.
 (IIII) 56)
- » Observe the TFT display:
- —If the TFT display remains off when standby mode is turned on, the battery is completely discharged. The disconnected 12 V battery must be charged directly via the terminals.
- —If the TFT display is turned on, the 12 V battery is not yet completely discharged. The connected 12 V battery can be charged via the 12 V socket.
- Turn off standby mode.
 (iii 57)

Charging disconnected battery

- Charge battery using a suitable charger.
- Comply with operating instructions of charger.
- Once battery is fully charged, disconnect charger's terminal clips from battery terminals.

Replacing 12 V battery

- -with anti-theft alarm system (DWA) OE
- Turn off the anti-theft alarm. system if necessary.
- Turn off standby mode.
- Remove side panel. (** 159)



 Push together the left and right clamps on the retainer 1 and remove it.



ATTENTION

Incorrect battery disconnection

Danger of short circuit

- Follow the disconnection. sequence.
- Remove the screw 2 and detach the negative battery cable.
- Remove the screw 3 and detach the positive battery cable.
- Remove 12 V battery from battery carrier.

 Push 12 V battery into the battery carrier.



 Install the retainer 1 on the 12 V batterv.



ATTENTION

Incorrect battery connection

Danger of short circuit

- Follow the installation sequence.
- Position positive battery cable and install screw 3.
- Position negative battery cable and install screw 2.
- Install side panel. (■ 159)

FUSES

Replacing the main fuse



ATTENTION

Bypassing defective fuses

Risk of short circuit and fire

- Do not bypass defective fuses.
- Replace defective fuses with new fuses.
- Turn off standby mode.
- Park the E-Scooter, making sure it is on level and firm ground.
- Remove side panel. (** 159)



• Replace faulty fuse 1.

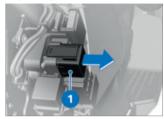
If the fuses are faulty frequently, have the electrical system checked by a repair shop, preferably an authorized BMW Motorrad dealer.

Main fuse

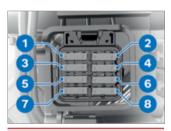
40 A (Main fuse)

• Install side panel. (** 159)

Replacing fuses



- Turn off standby mode.
- Remove side panel. (159)
- Pull off the fuse box 1.





ATTENTION

Bypassing defective fuses

Risk of short circuit and fire

- Do not bypass defective fuses.
- Replace defective fuses with new fuses.
- Replace faulty fuses 1 to 8 according to their assignment.

If the fuses are faulty frequently, have the electrical system checked by a repair shop, preferably an authorized BMW Motorrad dealer.

Fuse 1

15 A (EME, relay terminal 30 switched)

Fuse 2

7.5 A (Terminal 30B, drive electronics, Antilock Braking System (ABS), sensor box, seat heating, USB charging compartment, TPM, storage compartments)

Fuse 3

10 A (EME)

Fuse 4

7.5 A (Terminal 30, cut-off relay terminal 30B, anti-theft alarm system, vehicle lock, instrument cluster, on-board charger, diagnostic connector)

Fuse 5

7.5 A (Terminal 30C, multifunction switch left, high-voltage safety plug, EME, onboard charger)

Fuse 6

Not in use

Fuse 7

Not in use

Not in use

Fuse 8

- Insert the fuse box.
- Install side panel. (■ 159)

DIAGNOSTIC SOCKET

Detaching the diagnostic connector

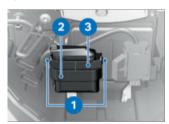


CAUTION

Incorrect procedure when disconnecting the diagnostic socket for onboard diagnosis

Vehicle experiences malfunctions

- Do not have the diagnostic socket disconnected except during BMW Motorrad service by a repair shop or other authorized persons.
- Have work carried out by appropriately trained personnel.
- Observe the specifications of the vehicle manufacturer.
- Remove the front-fairing panel. (*** 158)

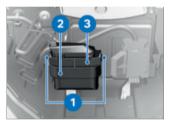


Press locks 1 on both sides.

- Detach the diagnostic socket 2 from the holder 3.
- The interface for the diagnostics and information system can be connected to the diagnostic connector 2.

Fastening the diagnostic connector

 Disconnect the interface for the diagnostics and information system.



- Insert the diagnostic socket 2 into the holder 3.
- The locking mechanisms 1 engage on both sides.
- Install the front-fairing panel. (

 158)

ACCESSORIES



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170 ACCESSORIES

GENERAL NOTES



CAUTION

Use of products from other manufacturers

Safety risk

- BMW Motorrad cannot examine or test each product of outside origin to ensure that it can be used on or in connection with BMW motorcycles without constituting a safety hazard. Nor is this guarantee provided when the official approval of a specific country has been granted. Tests conducted by these instances cannot make provision for all operating conditions experienced by BMW motorcycles and. consequently, they are not sufficient in some circumstances.
- Use only parts and accessories approved by BMW for your motorcycle.

The safety, function and suitability of the parts and accessory products have been thoroughly tested by BMW. Therefore, BMW assumes responsibility for these products. BMW shall not be held liable for un-

approved parts and accessory products of any kind.
Comply with the legal requirements for any modifications.
Consult the road traffic licensing regulations of your country. Your authorized
BMW Motorrad dealer offers you qualified advice for choosing original BMW parts, accessories and other products. More information on the topic of accessories is available at: bmw-motorrad.com/equipment

SOCKETS

Connecting electrical devices

- -Standby mode must be turned on before electrical devices connected to the on-board power sockets can be operated.
- The sockets are supplied with current for only 60 seconds after standby mode is turned off.

Operating electrical accessories

The battery capacity is not monitored when 12 V sockets are in use. If accessory devices are operated for an extended period of time without the high-voltage energy

storage system turned on, the 12 V battery may be fully discharged. As a result, standby mode of the E-Scooter is no longer guaranteed.

Cable layout

- The cables from the on-board sockets to the auxiliary devices must be routed in such a way that they do not impede the rider.
- -Cable layout must not restrict the steering angle and the handling characteristics.
- -Cables must not be trapped.

TOPCASE

-with topcase OA

Opening topcase



- Turn the key 1 clockwise.
- Press and hold the yellow lock 2 and open the carrying handle 3.



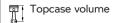
 Push the yellow button 1 forward and open the topcase lid at the same time.

Adjusting topcase volume

Open topcase and empty it.



- Lock swivel arm **1** into its foremost position to obtain the largest volume.
- Lock swivel arm 1 as far back as it goes to obtain the smallest volume.
- Close topcase.



6.6...9.2 gal (25...35 I)

172 ACCESSORIES

Closing topcase

• Close topcase lid forcefully.



ATTENTION

Folding down the carrying handle when the case is locked

Damage to the locking tab

- Before folding down the carrying handle, make sure that the slot of the topcase lock is vertical.
- Shut the carrying handle 1.
- » Carrying handle audibly engages.
- Turn the key 2 counterclockwise and detach.

Removing the topcase



- Turn the key 1 clockwise.
- Press and hold the yellow lock 2 and open the carrying handle 3.



- Pull back red lever 1.
- » Locking mechanism 2 springs open.
- Fully open the locking mechanism.
- Remove the topcase from the holder by its carrying handle.

Installing the topcase



- Pull back red lever 1.
- » Locking mechanism 2 springs open.
- Fully open the locking mechanism.



- Mount topcase onto the front brackets 1 of the topcase retaining plate.
- Push the rear of the topcase onto the topcase retaining plate.



- Push locking mechanism 1 forward until you feel resistance.
- Then push forward locking mechanism and red release lever 2 at the same time.
- » The locking mechanism engages.

174 ACCESSORIES





ATTENTION

Folding down the carrying handle when the case is locked

- Damage to the locking tab

 Before folding down the
 carrying handle, make sure
 that the slot of the case lock
 is perpendicular to the direction of travel.
- Shut the carrying handle 1.
- » Carrying handle audibly engages.
- Turn the key 2 counterclockwise and detach.

Maximum payload

Payload of Topcase

-with topcase OA

max 11 lbs (max 5 kg)⊲

CARE



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178 CARE

CARE PRODUCTS



ATTENTION

Use of unsuitable cleaning and care agents

Damage to motorcycle parts
• Do not use any solvents
such as nitro thinners, cold
cleaners, fuel or similar, and
do not use cleaning agents
that contain alcohol.



ATTENTION

Use of highly acidic or alkaline cleaning agents

Damage to motorcycle parts

- Observe the dilution ratio on the packaging of the cleaning agents.
- Do not use highly acidic or alkaline cleaning agents.

BMW Motorrad recommends that you use cleaning and care products available at your authorized BMW Motorrad dealer. BMW Care Products have been materials tested, lab-tested, and field tested and provide optimum vehicle care and protection for the materials used in your vehicle.

WASHING THE VEHICLE

BMW Motorrad recommends that you use BMW Insect Remover to soften and wash off insects and stubborn dirt from painted parts before washing the motorcycle.

To prevent stains, do not wash the vehicle immediately after it has been exposed to bright sunlight and do not wash it in the sun.

Regularly clean the fork tubes of contamination.

Make sure that the vehicle is washed more frequently, especially during the winter months and when riding on streets in coastal areas.

To remove salt deposits, clean the vehicle and any add-on parts with cold water immediately after completion of every trip.

After rides in the rain, in high humidity and after the vehicle is washed, condensation can form inside the headlight. During this process, the headlight can become foggy for a while. If moisture accumulates in the headlight on an ongoing basis, contact a repair shop, preferably an authorized BMW Motorrad dealer.



WARNING

Wet brake disks and brake pads after washing the vehicle, after water passages or in rain

Decreased braking effect, risk of accident

 Brake early until the brake disks and brake pads have dried off on their own or through braking.



ATTENTION

Increased effect of salt caused by warm water

Corrosion

Only use cold water to remove salt deposits.



ATTENTION

Damage caused by high water pressure from high-pressure cleaners or steam-jet devices

Corrosion or short circuit, damage to labels, to seals, to hydraulic brake system, to the electrical system and the seat

 Exercise caution when using high-pressure or steam-jet devices.

CLEANING SENSITIVE VEHI-CLE PARTS

Plastics



ATTENTION

Use of unsuitable cleaning agents

Damage to plastic surfaces

- Do not use abrasive cleaners or cleaners containing alcohol or solvents.
- Do not use insect sponges or sponges with a hard surface.

Clean plastic components with water and BMW plastic care emulsion. This includes in particular:

- -Windshields and wind deflec-
- Headlight diffusers made of plastic
- Glass cover of the instrument cluster
- -Black, unpainted parts

Soften stubborn dirt and dead insects by covering the affected areas with a wet cloth.



Clean with water and sponge only.

CARE 180



Do not use chemical cleaning agents.

Instrument cluster

Clean the instrument cluster with warm water and dish soap. Then dry with a clean cloth, e.g. a paper towel.

Chrome

Carefully clean chrome parts with plenty of water and motorcycle cleaner of the BMW Care Products series This is particularly important in case of exposure to salt.

For additional treatment, use BMW Motorrad metal polish.

Radiator

Clean the radiator regularly to prevent overheating of the electrical machine due to inadequate coolina.

For example, use a garden hose with low water pressure.



ATTENTION

Bending of radiator fins

Damage to radiator fins

· When cleaning, ensure that the cooler fins are not bent.

Rubber



ATTENTION

Use of silicone sprays for care of rubber seals

Damage to rubber seals

 Do not use silicone sprays or care products that contain silicone

Treat rubber parts with water or BMW rubber care product.

CARE OF PAINTWORK

Washing the motorcycle regularly will help counteract the long-term effects of substances that damage the paint, especially if your motorcycle is ridden in areas with high air pollution or natural sources of dirt. such as tree resin or pollen. However, remove particularly aggressive substances immediately: otherwise changes in the paint or discoloration may occur. These include spilled fuel, oil, grease and brake fluid as well as bird droppings. It is recommended to use BMW Motorrad solvent cleaner and then apply BMW Motorrad high-gloss polish to preserve the paint.

Contaminants on the paint surface are particularly easy to see after washing the vehicle. Remove this type of dirt immediately with cleaning benzene or ethyl alcohol on a clean cloth or cotton ball. BMW Motorrad recommends removing tar stains with BMW tar remover. Then add a protective wax coating to the paint at these locations



ATTENTION

Paint damage from metal polish

Risk of damage

 Do not treat paints and chrome lacquers with metal polish.

PAINT PRESERVATION

Apply a preservative when water fails to bead up on the painted surface.

BMW Motorrad recommends BMW Motorrad high gloss polish or agents that contain carnauba or synthetic wax for paint preservation.

Chrome lacquer must not be preserved with chrome polish.

Only use the agents recommended by BMW Motorrad.

STORING THE E-SCOOTER



ATTENTION

Damage to the high-voltage battery from excess electrostatic discharge

Risk of damage

- Before extended parking periods of up to four weeks, make sure that the highvoltage battery is fully charged.
- Check the battery charge regularly and charge the high-voltage energy storage system as necessary.
- Do not let the vehicle sit with a low state of charge for an extended period of time.

Do not park vehicle longer than 14 days if the electric range is less than 6 miles (10 km).

- Clean the electric scooter.
- Start the charging process. (IIII 114)
- Spray the brake lever, center and side stand mounting with suitable lubricant.

182 CARE

- Preserve bare metal and chrome-plated parts with an acid-free grease (Vaseline).
- Park the E-Scooter in a dry room, raising it to relieve the weight from both wheels.

PUTTING THE E-SCOOTER INTO OPERATION

- Remove the protective wax coating.
- Clean the E-Scooter.
- Checklist. (→ 123)



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TROUBLESHOOTING CHART

Ride readiness cannot be turned on:

Possible cause	Remedy
Side stand folded out	Fold in side stand.
Start without applying brake	Start with one brake lever applied.
12 V battery dead	Charge 12 V battery. (■ 161)

Bluetooth connection is not established.

Possible cause	Remedy
Necessary pairing steps were not performed.	Refer to the operating instructions of the communication system for the necessary steps for pairing.
The communication system is not connected automatically despite successful pairing.	Switch off the communication system of the helmet and connect again after one to two minutes.
Too many Bluetooth® devices are stored in the helmet.	Delete all pairing entries in the helmet (see the operating instructions of the communica- tion system).
There are additional vehicles with Bluetooth-capable devices nearby.	Avoid simultaneous pairing with multiple vehicles.

Bluetooth connection is disrupted.

Possible cause	Remedy
Bluetooth connection to the mobile end device is interrupted.	Switch off energy saving mode.
Bluetooth connection to the helmet is interrupted.	Switch off the communication system of the helmet and connect again after one to two minutes.
Volume in the helmet cannot be adjusted.	Switch off the communication system of the helmet and connect again after one to two minutes.
Phone book is not displayed in t	he TFT display
Possible cause	Remedy
Phone book was has not yet been transferred to the vehicle.	When pairing to the mobile end device, confirm the transfer of the telephone data (## 98).
Active route guidance is not disp	plaved in the TFT display.
Possible cause	Remedy
Navigation from the BMW Motorrad Con- nected App was not transferred.	Call up the BMW Motorrad Connected App on the con- nected mobile end device be- fore riding.
Route guidance cannot be started.	Ensure that there is a data connection to the mobile end device and check the map data on the mobile end device.

The playlist is not displayed in the TFT display.

Possible cause	Remedy
There are too many tracks in the playback list on the mobile	Reduce the number of tracks in the playback list on the mo-
end device.	bile end device.

CHARGING	
Total capacity of the high-voltage battery	60.6 Ah
Net energy content of high- voltage energy storage system	8.5 kWh
Note on charging time	The information on the charging time assumes that the nominal charge current is used for the charging operation. Temperatures and the selected charging infrastructure, charging cables and charging current limit can extend the charging time.
Charging time	
Charging time of the high- voltage battery with standard charging cable	210 min, 80% charge for charge current: 10 A 260 min, 100% charge for charge current: 10 A
Charging time of the high-voltage battery with Mode3 charging cable	
with quick charger ^{OE}	65 min, 80% charge for charge current: 30 A 100 min, 100% charge for charge current: 30 A

DRIVETRAIN	
Engine number location	Bottom of engine housing
Engine type	IA0P06A
Engine design	Synchronous machine
-with quick charger ^{OE}	Synchronous machine (3-phase, permanently excited)
Rated continuous power	20 hp (15 kW)
Maximum power	42 hp (31 kW), at RPM: 4900 min ⁻¹
Torque	46 lb/ft (62 Nm), at RPM: 1500 min ⁻¹
Maximum engine speed	max 12300 min ⁻¹
TRANSMISSION	
Transmission design	1-speed manual transmission integrated in engine housing
REAR-WHEEL DRIVE	
Type of final drive	Toothed belt drive
Type of rear-wheel guide	Single arm aluminum alloy casting swingarm with rear wheel axle adjustable eccentric cam
FRAME	
Frame design	Steel-double cradle frame
Location of type plate	Frame at front right on steering head
Location of the vehicle identification number	Main frame at lower front right

RUNNING GEAF	Rl	JNI	VING	GEAR
--------------	----	-----	------	------

Telescopic forks
4.3 in (110 mm), on front wheel
Directly linked spring strut with adjustable spring preload
3.6 in (92 mm), on rear wheel

BRAKES

Front wheel	
Type of front wheel brake	Two-rotor disk brake, rigid, diameter 265 mm, 4-piston fixed caliper
Front brake pad material	Organic
Front brake disc thickness	0.2 in (5 mm), New min 0.18 in (min 4.5 mm), Wear limit
Free travel of brake actuation (Front wheel brake lever)	0.030.13 in (0.73.4 mm), at piston
Rear wheel	
Type of rear wheel brake	Single-disc brake, diameter 265 mm, 1-piston floating caliper
Rear brake pad material	Organic
Rear brake disc thickness	0.2 in (5 mm), New min 0.18 in (min 4.5 mm), Wear limit

WHEELS AND TIRES	
Recommended tire combinations	An overview of the current tire approvals is available from your authorized BMW Motorrad retailer.
Speed category of front/rear tires	H, minimum requirement: 130 mph (210 km/h)
Front wheel	
Front wheel design	Aluminum cast wheel
Front-wheel rim size	3.50" x 15"
Front tire designation	120/70 R 15
Load index for front tire	56
Permitted front wheel imbalance	max 0.2 oz (max 5 g)
Rear wheel	
Rear wheel design	Aluminum cast wheel
Rear-wheel rim size	4.50" x 15"
Rear tire designation	160/60 R 15
Load index for rear tire	67
Permitted rear wheel imbalance	max 0.2 oz (max 5 g)
Tire pressures	
Front tire pressure	33.4 psi (2.3 bar), One-up mode, with cold tires 33.4 psi (2.3 bar), Two-up mode with load, with cold tires
Rear tire pressure	36.3 psi (2.5 bar), One-up mode, with cold tires 36.3 psi (2.5 bar), Two-up mode with load, with cold tires

ELECTRICAL SYSTEM	
Electrical rating of onboard sockets	max 5 A, all on-board power sockets in total
Main fuse	40 A, Main fuse
Fuse 1	15 A, EME, relay terminal 30 switched
Fuse 2	7.5 A, Terminal 30B, drive electronics, Antilock Braking System (ABS), sensor box, seat heating, USB charging com- partment, TPM, storage com- partments
Fuse 3	10 A, EME
Fuse 4	7.5 A, Terminal 30, cut-off re- lay terminal 30B, anti-theft alarm system, vehicle lock, instrument cluster, on-board charger, diagnostic connector
Fuse 5	7.5 A, Terminal 30C, multi- function switch left, high-volt- age safety plug, EME, on-board charger
Fuse 6	Not in use
Fuse 7	Not in use
Fuse 8	Not in use
Battery	
Battery design	AGM (Absorbent Glass Mat) battery, maintenance-free
Battery voltage	12 V
Battery capacity	5 Ah
Light sources	
All light sources	LED

ANTI-THEFT ALARM SYSTEM

-with anti-theft alarm system (DWA) OE

Activation time	Approx. 30 s
Alarm duration	Approx. 26 s
Battery type	CR 123 A

DIMENSIONS

Motorcycle length	90 in (2285 mm), over license-plate carrier
Motorcycle height	45.3 in (1150 mm), over windshield, at DIN unloaded vehicle weight
-with windshield, high ^{OE}	51.8 in (1315 mm), over windshield, at DIN unloaded vehicle weight
Motorcycle width	33.7 in (855 mm), with mirrors 32.3 in (820 mm), over handlebar weights
Front-seat height	30.7 in (780 mm), without rider, at DIN unloaded vehicle weight
—with backrest comfort seat ^{OE}	31.5 in (800 mm), without rider, at DIN unloaded vehicle weight
Rider's inside-leg arc, heel to heel	71.3 in (1810 mm), without rider, at DIN unloaded vehicle weight
-with backrest comfort seat OE	73.1 in (1856 mm), without rider, at DIN unloaded vehicle weight

WEIGHTS	
Unloaded vehicle weight	516 lbs (234 kg), DIN unladen weight without OE
Front wheel load at unloaded vehicle weight	262 lbs (119 kg)
Gross vehicle weight	904 lbs (410 kg)
Rear wheel load at unloaded vehicle weight	247 lbs (112 kg)
Maximum payload	388 lbs (176 kg)
Payload of Topcase	
-with topcase ^{OA}	max 11 lbs (max 5 kg)
Payload of the helmet compartment	max 18 lbs (max 8 kg)
Payload of soft bag	max 11 lbs (max 5 kg)
PERFORMANCE DATA	
Maximum speed	75 mph (120 km/h)
Cruising range	81 miles (130 km), in accordance with WMTC



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REPORTING SAFETY DEFECTS

If you think that your vehicle has a fault which may cause an accident, injury or death, you must inform the NHTSA (National Highway Traffic Safety Administration) immediately and BMW of North America, LLC.

If the NHTSA receives other similar complaints, it may open an investigation. If it finds that a safety defect exists in a group of vehicles, the NHTSA may order the manufacturer to perform a recall and remedy campaign. However, the NHTSA cannot become involved in individual problems between you, your authorized BMW Motorrad dealer or BMW of North America, LLC. You can contact the NHTSA by calling 1–888–327–4236 to reach the Vehicle Safety Hotline (Teletypewriter TTY for the hearing impaired: 1–800–424–9153) for free, by visiting the website at http:// www.safercar.gov or by writing to Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590. Further information on vehicle safety is available at the following website: http:// www.safercar.gov.

Canadian customers who wish to report a safety-related defect to Transport Canada, Defect Investigations and Recalls may call the toll-free hotline 1–800–333–0510. You can also obtain other information about vehicle safety from http:// www.tc.gc.ca/road-safety.

RECYCLING

Disposal of a vehicle

When the vehicle has reached the end of its life cycle, BMW Motorrad recommends giving it to a collection point designated by the manufacturer.

The respective national legal requirements apply to this collection and recycling in general. Information about recycling and sustainability can be retrieved at the country-specific websites of the manufacturer. More information can be requested from your authorized BMW Motorrad dealer or another qualified service partner or a repair shop.

BMW MOTORRAD SERVICE

With its worldwide dealer network, BMW Motorrad can attend to you and your electric scooter in over 100 countries around the globe. Authorized BMW Motorrad dealers have the technical information and expertise needed to reliably conduct all preventive maintenance and repair procedures on your BMW.

You will find the nearest authorized BMW Motorrad

dealer at our website: bmw-motorrad.com.



WARNING

Improperly performed preventive maintenance and repair procedures

Risk of accident due to subsequent damage

 BMW Motorrad recommends having corresponding work performed on your E-Scooter by a repair shop, preferably by an authorized BMW Motorrad dealer.

To ensure that your BMW is always in optimum condition, BMW Motorrad recommends that you comply with the maintenance intervals specified for your electric scooter.

Have all preventive maintenance and repair work carried out confirmed in the "Service" chapter in this manual. Documented proof of scheduled preventive maintenance is essential for generous treatment of claims submitted after the warranty period has expired (goodwill).

You can obtain information on the contents of the BMW Motorrad Services from your authorized BMW Motorrad dealer.

BMW MOTORRAD SERVICE HISTORY

Entries

Maintenance work that has been performed is recorded in the diagnostics and information system. Like a Service Booklet, these entries provide proof of regular preventive maintenance. If an entry is made in the vehicle's service history, service-related data is stored on the central IT systems that can be accessed via BMW.

When there is a change in vehicle owner, the data entered in the electronic Service History can also be viewed by the new vehicle owner. An authorized BMW Motorrad dealer or repair shop can view the data entered in the service history.

Objection

At an authorized BMW Motorrad dealer or repair shop, the vehicle owner can object to the entry of data in the service history with the related storage of data in the vehicle and the transfer of data to the vehicle manufacturer during his time as the vehicle owner. In this case, no entry is made in the vehicle's electronic Service History.

BMW MOTORRAD MOBILITY SERVICES

The BMW Motorrad mobility services provide you and your new BMW electric scooter with extra security by offering a wide array of assistance services in the event of a breakdown (mobile service, breakdown assistance, vehicle recovery and retrieval, etc.).

Contact your authorized BMW Motorrad dealer for additional information on available mobility services.

MAINTENANCE WORK BMW pre-delivery check

The BMW pre-delivery check is carried out by your authorized BMW Motorrad dealer before it turns the vehicle over to you.

BMW running-in check

The BMW running-in check must be carried out between 300 mi (500 km) and 750 mi (1200 km).

BMW Motorrad Service

The BMW Motorrad service is carried out every 24 months or every 6000 miles (10000 km) (whichever comes first). The scope of services can vary, depending on the age of the vehicle and the distance covered. Your authorized BMW Motorrad dealer confirms that the service has been performed and enters the date for the next service.

For riders with high annual mileage, it may be necessary to come in for service before the entered date. In these cases, a corresponding maximum distance covered will also be entered in the confirmation of service. If this distance covered is reached before the next service appointment, service must be performed sooner.

More information on the topic of service is available at:

bmw-motorrad.com/service

The required scope of maintenance work for your vehicle can be found in the following maintenance schedule:

MAINTENANCE SCHEDULE

	500 -1200 km 300 - 750 mls	10 000 km 6 000 mls	20 000 km 12 000 mls	30 000 km 18 000 mls	40 000 km 24 000 mls	50 000 km 30 000 mls	60 000 km 36 000 mls	70 000 km 42 000 mls	80 000 km 48 000 mls	90 000 km 54 000 mls	100 000 km 60 000 mls	12 months	24 months
0000	x												
8		X	X	X	X	X	X	X	X	X	X		X*
3					x				X				
4													X
6	x				х				X				

- **1** BMW Motorrad break-in service
- 2 Standard scope of BMW Motorrad service
- 3 Replace belt
- **4** Change brake fluid in the entire system
- **5** Change transmission oil
- every two years or every 6000 miles (whichever comes first)

BMW MOTORRAD BREAK-IN SERVICE

BMW Motorrad break-in service

The BMW Motorrad break-in service repair procedures are listed below. The actual scope of maintenance required for your vehicle may differ.

- -Setting the service date and remaining distance
- -Performing the vehicle test using the BMW diagnostic system
- -Checking the front/rear brake fluid level
- -Lubricating the side stand and checking the Bowden cable for parking brake
- -Lubricating the bearing of the Bowden cable for the parking brake and checking the basic setting and holding effect of the parking brake
- -Removing the outer belt guard
- -Change transmission oil
- -Checking the belt tension
- -Installing the outer belt guard
- -Checking the coolant composition
- -Checking the tire pressure and tread depth
- -Checking steering-head bearing
- -Checking the lighting and signal system
- -Start enable functional check
- Final inspection and road safety check
- -Performing the vehicle test using the BMW diagnostic system
- -Confirming the BMW service in the vehicle literature

MAINTENANCE CONFIRMATIONS

BMW Motorrad Service standard scope

The repair procedures belonging to the BMW Motorrad Service standard package are listed below. The actual maintenance work applicable for your vehicle may differ.

- -Checking charging state of battery
- -Visual inspection of the brake lines, brake hoses and connections
- -Change brake fluid in the entire system
- -Checking the front/rear brake fluid level
- -Checking the front brake pads and brake discs for wear
- -Checking the rear brake pads and brake disc for wear
- -Lubricating the side stand and checking the Bowden cable for parking brake
- -Lubricating the bearing of the Bowden cable for the parking brake and checking the basic setting and holding effect of the parking brake
- -Replace belt
- -Change transmission oil
- -Checking steering-head bearing
- -Checking the coolant composition
- -Checking the tire pressure and tread depth
- -Checking the lighting and signal system
- -Start enable functional check
- -Final inspection and road safety check
- Performing the vehicle test using the BMW Motorrad diagnostic system
- -Performing the vehicle test using the BMW diagnostic system
- -Set the service date and remaining distance using the BMW Motorrad diagnostic system
- -Confirming the BMW Motorrad service in the vehicle literature

BMW Motorrad pre- delivery check performed	BMW Motorrad break-in service performed
on	onat km
	Next service latest on or, if reached earlier at km
Stamp, signature	Stamp, signature

BMW Motorrad Service performed onat km Next service latest on or, if reached earlier at km			
Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire sy Changing gear oil	/stem	Yes	No
Notes	Stamp, signa	ature	

Next service latest on or, if reached earlier at km Work performed Work performed Service Replacing belt Changing brake fluid in entire system Changing gear oil Notes Stamp, signature	latest on or, if reached earlier at km Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire system Changing gear oil	performed on at km		
Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire system Changing gear oil	work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire system Changing gear oil	latest		
BMW Motorrad Service	BMW Motorrad Service	or, if reached earlier		
BMW Motorrad Service	BMW Motorrad Service	Work performed	Yac	No
Notes Stamp, signature	Notes Stamp, signature	Replacing belt Changing brake fluid in entire sys	tem	
		Notes	Stamp, signature	

BMW Motorrad Service performed onat km Next service latest onor, if reached earlier at km		
Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire sy Changing gear oil	stem	res No
Notes	Stamp, signatu	ure

Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire system Changing gear oil	latest on or, if reached earlier at km Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire system Changing gear oil	latest on or, if reached earlier at km Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire system Changing gear oil	on at km		
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BMW Motorrad Service	BMW Motorrad Service	BMW Motorrad Service	or, if reached earlier		
BMW Motorrad Service	BMW Motorrad Service	BMW Motorrad Service	Work performed	Yes	No
Notes Stamp, signature	Notes Stamp, signature	Notes Stamp, signature	Replacing belt Changing brake fluid in entire sy:	stem	
			Notes	Stamp, signature	

BMW Motorrad Service performed onat km Next service latest on			
or, if reached earlier at km			
Work performed		Yes	No
BMW Motorrad Service Replacing belt Changing brake fluid in entire sy Changing gear oil	stem		
Notes	Stamp, signa	ature	

Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire system Changing gear oil	latest on or, if reached earlier at km Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire system Changing gear oil	latest on or, if reached earlier at km Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire system Changing gear oil	on at km		
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BMW Motorrad Service	BMW Motorrad Service	BMW Motorrad Service	or, if reached earlier		
BMW Motorrad Service	BMW Motorrad Service	BMW Motorrad Service	Work performed	Yes	No
Notes Stamp, signature	Notes Stamp, signature	Notes Stamp, signature	Replacing belt Changing brake fluid in entire sy:	stem	
			Notes	Stamp, signature	

212 SERVICE

BMW Motorrad Service performed onat km Next service latest onor, if reached earlier at km		
Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire sy Changing gear oil	stem	res No
Notes	Stamp, signatu	ure

performed on at km		
Next service latest on		
or, if reached earlier at km		
Work performed	Yes	No
BMW Motorrad Service Replacing belt Changing brake fluid in entire sys Changing gear oil	tem	
Notes	Stamp, signature	

214 SERVICE

BMW Motorrad Service performed onat km Next service latest on or, if reached earlier at km			
Work performed BMW Motorrad Service Replacing belt Changing brake fluid in entire sy Changing gear oil	/stem	Yes	No
Notes	Stamp, signa	ature	

performed on at km		
Next service latest on		
or, if reached earlier at km		
Work performed	Yes	No
BMW Motorrad Service Replacing belt Changing brake fluid in entire sys Changing gear oil	tem	
Notes	Stamp, signature	

216 SERVICE

SERVICE CONFIRMATIONS

The table serves to provide evidence of maintenance and repair work, as well as installed optional accessories and special campaigns performed.

oaigns performed. Work performed	at km	Date	
Work periorities	ut Kiii	Dute	

Work performed	Date

CERTIFICATE FOR ELECTRONIC IMMOBILIZER	219
CERTIFICATE FOR KEYLESS RIDE HUF5794	222
CERTIFICATE FOR KEYLESS RIDE HUF8485	224
CERTIFICATE FOR TIRE PRESSURE MONITOR	226
CERTIFICATE FOR TFT INSTRUMENT CLUSTER	227

Declaration of Conformity

Radio equipment electronic immobiliser (EWS4)

For all countries without EU

Technical information

Frequency Band: 134 kHz (Transponder: TMS37145 / Type DST80, TMS3705 Transponder Base Station IC) Output Power: 50 dBuV/m

Manufacturer and Address

Manufacturer: BECOM Electronics GmbH Address: Technikerstraße 1, A-7442 Hochstraß

Argentina



Australia/New Zealand



Brunei



United Arab Emirates

TRA REGISTERED No: ER89926/20

> DEALER No: DA96133I20

Philippiens



Type Approved
No.: ESD-RCE-2023298

South Africa



India

ETA-SD-20200905860

Belarus



Indonesia

72790/SDPPI/2021 13349





Dilarang melakukan perubahan Spesifikasi yang dapat Menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Paraquay



NR: 2020-11-I-0834

Singapore

Complies with IMDA Standards N3504-20

Taiwan



射性雷機管 低功 雷波 辦法 第十二條 經型式認證合格之低 功率射頻電機, 非經許可, 公 司、商號或使用者均不得擅 自變 更頻率、加大功率或變更原設計 之特性及 功能。第十四條 率射頻雷機之使用不 得影響飛航 安全及干擾合法诵信; 經發現有 干 擾現象時, 應立即停用, 善至無干擾時方 得繼續使用。 項合法通信, 指依電信法規定作 業力無線雷 诵信。

Malaysia



RFCL/47A/0920/S(20-3358)

Israel

מספר אישור אלחוטי של משרד התקשורת הוא 51-74908 אסור להחליף את האנטנה המקורית של המכשיר ולא לעשות בו כל שינוי טכני אחר

United States (USA)

ODE-MREWS5012 FCC § 15.19 Labelling requirements This device complies with part 15 of the FCC Rules and Industry

This device complies with part 15 of the FCC Rules and Industry Canada's licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC § 15.21 Information to user

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Requirements

To comply with FCC RF exposure compliance requirements, the device must be installed to provide a separation distance of at least 20 cm from all persons.

Serbia



Canada

Contains IC: 10430A-MREWS5012 This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Vietnam



A1109091120AF04A3

Declaration of Conformity

Kevless Ride Kev

For all Countries without FU

Model name: HUF5794

Technical information

Frequenzy band: 433.92 MHz Output/Transmission Power: 10 mW

Manufacturer and Address

Huf Hülsbeck & Fürst GmbH & Co. KG Steeger Str. 17, 42551 Velbert, Germany

Oman

OMAN - TRA

R/13021/22 D100428

Morocco

AGREE PAR L'ANRT MAROC

Numéro d'agrément: MR00031289ANRT2022 06/01/2022

Date d'agrément:

Nigeria

Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

United Arabic Emirates



TRA - United Arab Emirates

Dealer ID: DA36976/14 TA RTTE: FR04909/22 Model: HUF5794

Type: BMW

Malavsia



HIDF17000037

Philippines



Type Approved No. ESD-RCE-2228693

Pakistan

2022-01-I-0051

Paraguay



South Africa



APPROVED

Relarus



Serbia

Vietnam



Indonesia



Singapore

Complies with IMDA Standards DA105282



Canada

This device complies with part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'utilisateur de l'appareil doit acceptor tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

United States (USA)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Taiwan

取得審驗證明之低功率射頻器材,非 經核准,公司、商號或使用者均不得 擅自變更頻率、加大功率或變更原設 計之特性及功能。低功率射頻器材之 使用

不得影響飛航安全及干擾合法通信; 經發現有干擾現象時,應立即停用, 並改善至無干擾時方得繼續使用。前 述合法通信,指依電信管理法規定作 業之

無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾

Thailand



เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้ รับใบอนุญาตให้มี ใช้ตึ่งเครื่องวิทยุคมนาคม หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช. เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุ คมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาต วิทยุคมนาคมตามพระราชบัญญัติวิทยุคมนาคม พ.ศ. 2498



กลักษ์. โทรคมนาคม ทำกับดูแลเพื่อประชาชน Call Center 1200 (โทรฟรี)

Declaration of Conformity

Kevless Ride ECU

For all Countries without FU

Model name: HUF8485

Technical information

Frequenzy band: 134.45 kHz Output/Transmission Power: 42 dBuV/m

Manufacturer and Address

Huf Hülsbeck & Fürst GmbH & Co. KG Steeger Str. 17, 42551 Velbert, Germany

Argentina

R! RAMATEL

H-27411

Morocco

AGREE PAR L'ANRT MAROC Numéro d'agrément: MR00031290ANRT2022

Date d'agrément: 06/01/2022

Nigeria

Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

United Arabic Emirates



TRA - United Arab Emirates Dealer ID: DA36976/14

TA RTTE: ER04912/22 Model: HUF8485 Type: BMW

Malavsia



HIDF17000037

Philippines



Type Approved No. ESD-RCE-2228692

Pakistan

CONVATIENT CONVINCENT

2022-01-I-0052

Paraguay



South Africa



Oman

OMAN - TRA R/13020/22 D100428

Vietnam



Singapore

Complies with IMDA Standards DA105282

Indonesia





Canada

This device complies with part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'utilisateur de l'appareil doit acceptor tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

United States (USA)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Taiwan

取得審驗證明之低功率射頻器材,非 經核准,公司、商號或使用者均不得 擅自變更頻率、加大功率或變更原設 計之特性及功能。低功率射頻器材之 使用

不得影響飛航安全及干擾合法通信; 經發現有干擾現象時,應立即停用, 並改善至無干擾時方得繼續使用。前 述合法通信,指依電信管理法規定作 業之

無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾

Thailand



เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้ รับใบอนุญาตให้มี ใช้ตึ่งเครื่องวิทยุคมนาคม หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช. เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุ คมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาต วิทยุคมนาคมตามพระราชบัญญัติวิทยุคมนาคม พ.ศ. 2498



กลักษ์. โทรคมนาคม ทำกับดูแลเพื่อประชาชน Call Center 1200 (โทรฟรี)

Certification Tire Pressure Control (TPC)

FCC ID: MRXBC54MA4 IC: 2546A-BC54MA4

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC." before the radio certification number only signifies that Industry Canada technical specifications were met.

FCC ID: MRXBC5A4 IC: 2546A-BC5A4

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

Declaration of Conformity

Radio equipment TFT instrument cluster

For all Countries without EU

Model name: ICC10in

Technical information

The ICC10in can operate in one of two operating modes:
1. Normal mode, with Bluetooth and WLAN on, and
2. Radio off mode (only available during vehicle manufacturing).

BT operating frq. Range: 2402 – 2480 MHz BT version: 4.2 (no BTLE) BT output power: < +4 dBm (internal antenna) WLAN operating frq. Range: 2402 – 2472 MHz WLAN standards: IEEE 802.11 b/g/n WLAN output power: < +14 dBm (internal antenna)

Manufacturer and Address

Manufacturer: Robert Bosch GmbH Address: Robert-Bosch-Platz 1, 70839 Gerlingen, Germany

Turkey

Robert Bosch GmbH, ICC10in tipi telsiz sisteminin 2014/53/EU nolu yönetmeliğe uygun olduğunu beyan eder. AB Uygunluk Beyanı'nın tam metni, aşağıdaki internet adresinden görülebilir: http://cert.bosch-carmultimedia.net

Brazil

Este equipamento não tem direito proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL www.anatel.gov.br

Thailand

เครื่องโทรคมนาคมและอุปกรณีนั้ มีความสอดคล้องตามข้อกำหนดขอ ง กทช. (This telecommunication equipments is in compliance with NTC requirements)

Argentina



C-25636

Canada

This device contains licenceexempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Radiofrequency radiation exposure Information: This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Informations sur l'exposition aux radiofréquences:

Cet équipement est conforme aux limites d'exposition aux radiations fixées par le Canada pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 centimètres entre le radiateur et votre corps. Cet émetteur ne doit pas être colocalisée ou opérant en conjonction avec autre antenne ou émetteur.

United States (USA)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

 This device may not cause harmful interference, and
 this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by Robert Bosch GmbH may void the FCC authorization to operate this equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiofrequency radiation exposure Information: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be colocated or operating in conjunction with any other antenna or transmitter.

Japan

This device is granted pursuant to the Japanese Radio Law (電波法) and the Japanese

Telecommunications Business Law (雷気通信事業法)

本製品は、電波法と電気通信事業 法に基づく適合証明を受けており ます。

This device should not be modified (otherwise the granted designation number will become invalid)

本製品の改造は禁止されています。 (適合証明番号などが無効となります。)





201-200559

20 0138 201

Korea

Equipment Name: BMW A-Kombi Basic model number: ICC10in Manufacturer/Country of Origin: Robert Bosch GmbH / 포르투갈 Zertifikatsnummer: R-R-BO2-ICC10in

Serbia



ID: И011 20

Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones:

- (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
- (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.





IFETEL

Taiwan, Republic of

取得審驗證明之低功率射頻器材,非經核准,公司、商號或使用者換更損率、加大功功功等更原設計之特性及功能。低功率率更原設計之特性及功能。低功率多及,實際分數,與實際的,應立即停用,並發發現有干擾一時,應立即停用,並合法通信,應立即停用,前述合法通信,實持依電信管理法規定作業之無線接循信。低功率射頻器材質忍受高速,電過信或工業、科學及醫療用電波輻射性電機設備之干擾。

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Harmful substances

Operating, servicing, and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including phthalates and lead, which are known to the State of California to be carcinogenic or detrimental to childbirth or reproduction.

- To reduce the risk, wear gloves or wash your hands frequently when servicing your vehicle.
- Further information is available at: www.P65Warnings.ca.gov/ passenger vehicle

Important data:

Charging time

Charging time of the high-voltage battery with standard charging cable



210 min, 80% charge for charge current: 10 A 260 min, 100% charge for charge current: 10 A

Charging time of the high-voltage battery with Mode3 charging cable

(C)

65 min, 80% charge for charge current: 30 A 100 min, 100% charge for charge current: 30 A

rire pressures	Tire	pressures
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-with quick charger OE

rire pressures	
Front tire pressure	33.4 psi (2.3 bar), One-up mode, with cold tires
	33.4 psi (2.3 bar), Two-up mode
	with load, with cold tires
Rear tire pressure	36.3 psi (2.5 bar), One-up mode, with cold tires
	36.3 psi (2.5 bar), Two-up mode
	with load, with cold tires

You can find further information on all aspects of your vehicle at: bmw-motorrad.com

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