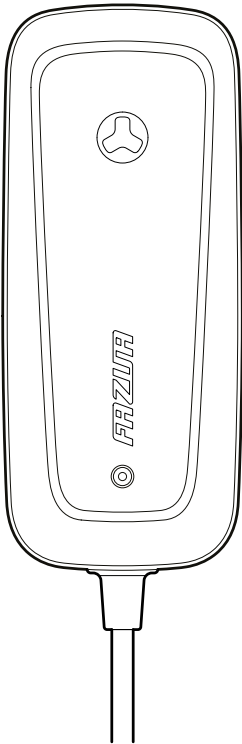
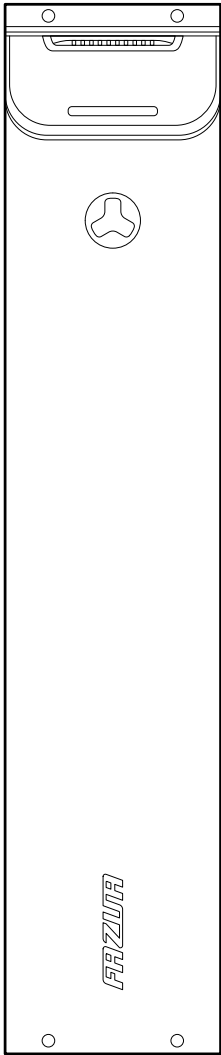




FAZUA *RIDE 60 DRIVE SYSTEM*



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1 OVERVIEW

1.1 Battery and charger



Depending on the model, the battery is either:

- permanently installed in the E-Bike and cannot be removed (models: ENERGY 430 fix, ENERGY 480 fix).

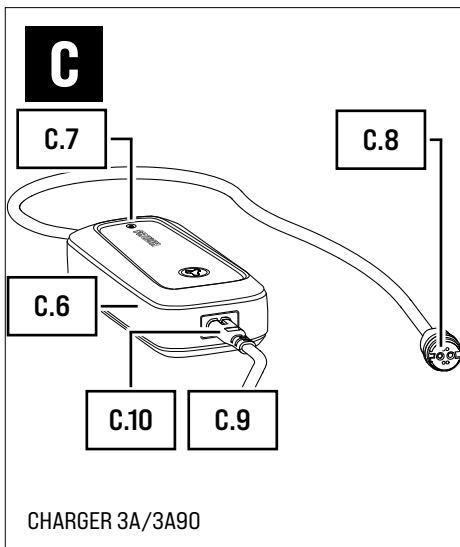
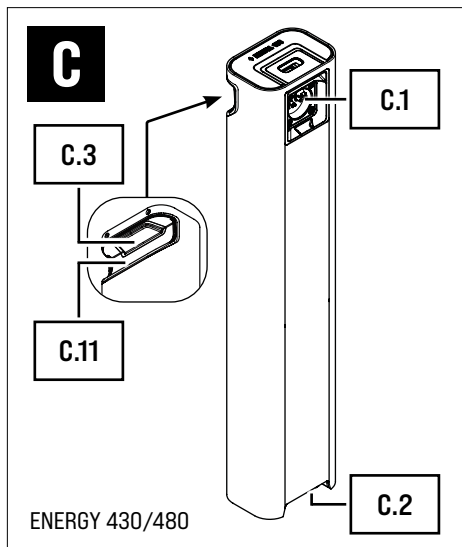
or

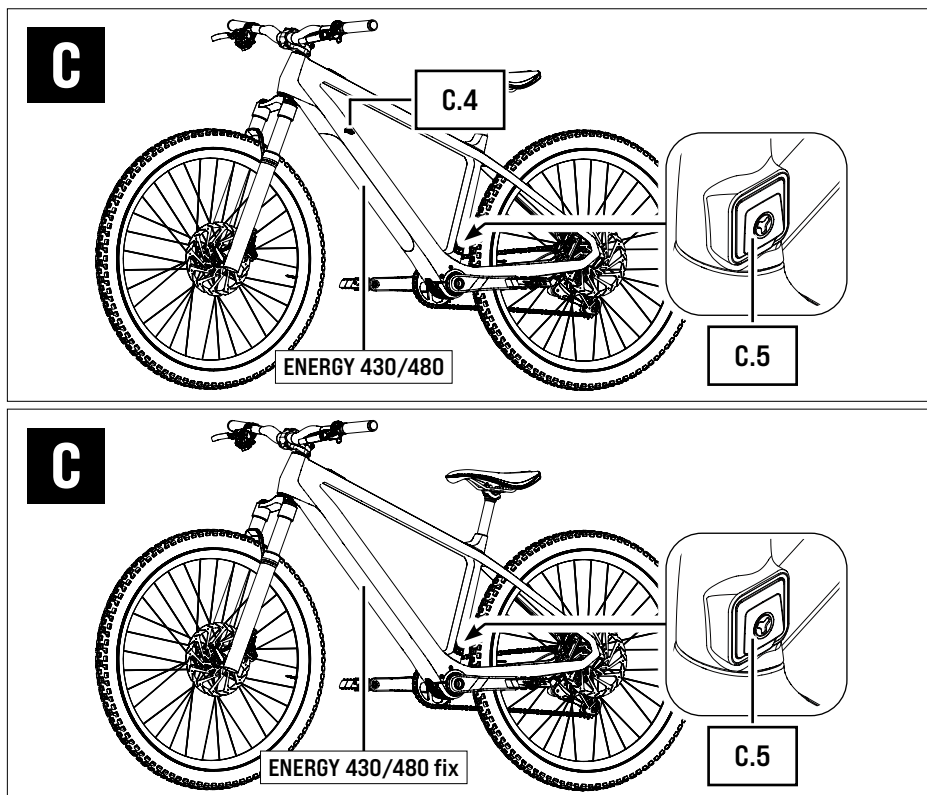
- a separate component that can be removed from the E-Bike (models: ENERGY 430, ENERGY 480).



The appearance and assembly/handling of the model variants of the removable battery (ENERGY 430 / ENERGY 480) are identical as are those of the model variants of the permanently installed battery (ENERGY 430 fix / ENERGY 480 fix).

For this reason, the respective model variants are described together in this operations manual.





Part designations

- C.1 → Charging socket* (battery)
- C.2 → Interface* (battery)
- C.3 → Push button* (battery lock)
- C.4 → Cylinder lock and key*
- C.5 → Charging socket with cover flap** (E-Bike)
- C.6 → Mains adapter
- C.7 → LED display
- C.8 → Charging plug
- C.9 → Mains cable with mains plug*** (power connection)
- C.10 → Plug
- C.11 → Charge level indicator

* Only applies to removable batteries, not to permanently installed batteries.

** Applies to removable and permanently installed batteries. The charging connection is optional; the position can vary depending on the individual manufacturer.

*** Different from country to country, therefore without illustration.

2 ABOUT THIS OPERATIONS MANUAL

2.1 Read and keep the operations manual

This Battery & Charger operations manual* (hereinafter referred to in brief as “operations manual”) provides information about the safe use of the (regular) battery and the charger which belong to the FAZUA RIDE 60 drive system.

IMPORTANT: For reasons of clarity and to avoid confusion, the term “battery” is used in this operations manual exclusively to refer to the regular (main) battery** and for (rechargeable) batteries in general.

This operations manual contains all safety-related information as well as extensive information and detailed descriptions on how to handle and use the components mentioned above.

You can:

- view and download the operations manual online at <https://fazua.com/support/help-center/downloads/>
- request a printed version via the FAZUA service platform <https://fazua.com/support/contact/>.

This operations manual is based on the laws applicable in the United States, as well as on national regulations such as UL® and ANSI testing standards.

Read the operations manual before using the battery and the charger. If you do not observe the operations manual, you or other persons may suffer serious injuries and/or the battery and charger may be damaged.

In addition to this operations manual, always also observe the system operations manual for the FAZUA RIDE 60 drive system and the manufacturer's instructions for the E-Bike in which the drive system is installed.

Keep the operations manual and all documents belonging to the drive system to hand at all times so that you can access them when necessary. If you pass on the battery and charger or the E-Bike with the FAZUA RIDE 60 drive system to others, make sure that you also hand over this operations manual and all associated documents too.

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** See [Chapter 1.1 “Battery and charger”](#).

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2.2 Description of signs and symbols

Depending on the degree of risk, safety and warning information and important additional information is marked in this document as follows:

DANGER

Risks that could result in death or serious injuries are marked with the signal word "Danger".

WARNING

Risks that could result in death or serious injuries are marked with the signal word "Warning".

CAUTION

Risks that could result in moderate or minor injuries are indicated by the signal word "Caution".

NOTE

Risks relating to damage to the product itself or to property damage to other objects are indicated by the signal word "Notice".



Important additional information is marked with this information symbol.

3 SAFETY

3.1 Functionality & intended use

The battery and charger models described in this operations manual are original accessories of the FAZUA RIDE 60 drive system.

FAZUA Drive systems are designed as electric drive systems for E-Bikes. Up to a certain [country- and product-specific] speed, the electric Pedal Assist function makes it easier to start and propel the E-Bike by supporting or relieving you when pedaling.

In accordance with its intended use, the **battery** supplies energy to all electrical functions/components of the drive system (electric Pedal Assist, control element, display) and, if applicable, to additional electrical components of the E-bike (e.g. bicycle lighting).

Depending on the model, the battery is either permanently installed in the E-Bike and cannot be removed* or a separate component that can be removed from the E-Bike**.

Use the **charger** to charge the battery.

IMPORTANT: The battery must explicitly not be used to supply power to devices or equipment other than the FAZUA RIDE 60 drive system. The charger must also be used exclusively for charging the associated battery and not for charging other devices. The battery, and charger must not be tampered with or modified.

The battery system of the FAZUA RIDE 60 (battery) is approved for use in altitudes of up to 9,842.4 ft (3,000 m).

Only use the battery and charger as described in the operations manual. Any other use is considered improper and may result in accidents, serious injury and damage to the battery, charger as well as to the drive system.

3.2 Limitations of liability

Porsche eBike Performance GmbH accepts no liability for any damage caused by incorrect or improper installation, improper handling or use other than intended.

Only use the components of the drive system as described in this operations manual. Any other use is considered improper and may result in accidents, serious injuries and damage to the drive system.

* Models: ENERGY 430 fix, ENERGY 480 fix.

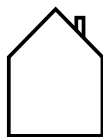
** Models: ENERGY 430, ENERGY 480.

3.3 Symbols & pictograms of the drive system

On individual components of the drive system you will find certain symbols and pictograms, which are listed below including their meaning.



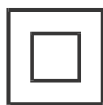
This symbol indicates that the user of the drive system or the individual components must have read and understood the operations manual before use.



A device marked with this symbol (here: the charger) may only be used in dry indoor areas.



When used in a damp environment and in contact with liquids, there is a risk of electric shock!



An electrical appliance marked with this symbol corresponds to protection class II: The device has double or reinforced insulation to protect against electric shock.



An electrical appliance marked with this symbol meets the safety requirements of protection class III.

This symbol warns of hot surfaces.



There is a risk of burns if touched, contact with combustible materials may cause a fire.



Li-ion

These symbols indicate that the component labeled with these symbols as a lithium-ion battery must be disposed of separately at the end of its service life and may not be disposed of with the household waste.



This symbol indicates that the component labeled with this symbol as electrical or electronic equipment must be disposed of at the end of its service life and may not be disposed of with household waste.



This symbol indicates products that meet all the requirements for obtaining the European CE marking.

Specific information can be found in [Chapter 13 "Conformity"](#).



This symbol identifies products that meet all the requirements for obtaining the British UKCA marking.

Specific information can be found in [Chapter 13 "Conformity"](#).



The test seal "Geprüfte Sicherheit" [GS mark] is awarded by independent certification bodies.

A device marked with the GS test seal complies with the safety-relevant requirements of the German Product Safety Act (ProdSG).



The "type tested" test seal shown is awarded by the TÜV certification body.

A device marked with the test seal shown corresponds to the safety-relevant requirements for Canada and the USA.



The "UL® Listed" seal of approval is awarded by the US UL® certification body.

A device labeled with the "UL® Listed" test seal shown corresponds to the safety-relevant requirements for Canada and the USA.



The "FCC" seal is awarded by the Federal Communications Commission, an independent U.S. government agency responsible for implementing and enforcing U.S. communications laws and regulations.

An electrical device marked with the FCC seal complies with American standards for electromagnetic compatibility.



The test seal shown is awarded by the SGS certification body.

A device marked with this test seal complies with the safety-relevant requirements for Canada and the USA in accordance with UL standards.

The drive system and the battery have been tested according to UL standards. The following UL standards were applied: UL 2271 - Standard for Batteries for Use in Light Electric Vehicle (LEV) Applications, UL 2849 - Outline of Investigation for Electric Bicycles, Electrically Power Assisted Cycles (EPAC Bicycles), Electric Scooters, and Electric Motorcycles.

3.4 *Safety instructions*

READ AND KEEP ALL IMPORTANT SAFETY INSTRUCTIONS!



DANGER

Batteries may explode!

If you use unsuitable batteries or do not handle batteries properly, the batteries may explode.

- ▶ Only use the original charger from FAZUA to charge the battery.
- ▶ Do not subject the battery to high mechanical stress.
- ▶ Do not subject the battery to high temperature fluctuations.
- ▶ Never use a damaged battery. Products with broken seals must not be used and must be immediately taken to a suitable recycling facility (see [Chapter 10 “Disposal information”](#)).
- ▶ Never attempt to charge a damaged battery.
- ▶ Do not continue using the battery, but have the battery checked by an authorized specialist and if necessary, replace it if:
 - you notice damage to the battery,
 - liquid is leaking out of the battery,
 - you notice a strange odor or a strange noise coming from the battery.
- ▶ Never open the battery. Attempting to open a battery increases the risk of explosion!
- ▶ Keep the battery away from heat (e.g. strong sunlight), open fire or water or other liquids. At temperatures above 158 °F [70 °C], the battery can run out and break.

- ▶ Only use the battery in E-Bikes equipped with an original FAZUA RIDE 60 drive system. Never use the battery for other purposes or in other drive systems.

**DANGER****Fire hazard due to incorrect handling!**

Improper handling of the battery and/or the charger or using batteries and chargers that are incompatible with each other could cause a fire.

- ▶ Only use original and compatible components from FAZUA with each other. Do not attempt to charge a third-party battery with the FAZUA charger and do not attempt to charge the FAZUA battery with a third-party charger.
- ▶ The charger and battery heat up during charging, so keep away from combustible materials and do not leave the two components unattended during charging.
- ▶ When charging, place the charger and the battery on a well-ventilated surface.
- ▶ Never attempt to charge non-rechargeable batteries!
- ▶ Take care not to handle metal objects such as coins, paper clips, screws, etc. in the immediate vicinity of the battery, and to store the battery separately from metal objects.
Metal objects can close a circuit between the terminals of the battery (i.e. “short-circuit” the battery) and cause a fire as a result.
- ▶ Do not short-circuit the battery.
- ▶ If a battery fire breaks out:
 - If possible, carefully remove the other batteries from the danger zone.
 - Evacuate all persons from the danger zone.
 - Use plenty of cold water (at least ten times the weight of the battery) to extinguish the fire.

**DANGER****Risk of electric shock!**

Improper handling of the charger or incorrect mains connection may expose you and others to the risk of electric shock.

- ▶ Only connect the charger to an easily accessible and properly installed power outlet.
- ▶ Make sure that the mains voltage at the mains connection corresponds to the information on the charger.
- ▶ Only use the charger in dry indoor areas.
- ▶ Keep the charger away from any liquid or moisture.
- ▶ Do not pull on the cables, but always grasp the corresponding plug when disconnecting the connectors.
- ▶ **Do not handle the plugs of the charger with wet or damp hands.**
- ▶ Take care not to bend the charger cable or lay them over sharp edges.
- ▶ Do not open the charger without authorization. The charger may only be opened by an authorized specialist and repaired using original spare parts.
- ▶ Before each use of the charger, check all individual parts (mains adapter, mains cable, charger cable and all plugs) for damage. If the charger's power cord is damaged, it must be replaced by the manufacturer, their customer service or a similarly qualified person, to avoid hazards.
- ▶ Never use a damaged charger. Otherwise there is a high risk of electric shock!
- ▶ Keep the charger in a clean condition. There is an increased risk of electric shock if the charger is dirty or contaminated.

**DANGER****Dangers during unattended use!**

If children or people with physical or mental impairments handle the battery or charger, there is an increased risk potential as these user groups may not be able to correctly assess certain risks, for example.

- ▶ This device is not intended to be used by persons (including children) with limited physical, sensory or mental aptitude or lack of experience and knowledge unless they are supervised by a person responsible for their safety or have received instruction from this person as to how to use the device.
- ▶ Children must not be allowed to play with the device.
- ▶ Do not try to disassemble the charger.
- ▶ Do not use the charger in high temperatures or in damp, flammable or explosive environments.
- ▶ Disconnect the device from the power supply before connecting or disconnecting the battery.

DANGER

Danger of impairment of medical devices!

The magnetic connections of the battery and charger can interfere with the function of pacemakers.

- ▶ Keep the battery and the charger away from pacemakers or persons who have a pacemaker.
- ▶ Make people who have a pacemaker aware of the danger.

WARNING

Risk of caustic burns due to battery acid!

The battery contains battery acid. If you come into contact with this fluid, the affected skin area and/or mucous membrane may be burnt. Eye contact can cause loss of vision.

- ▶ Protect the battery from mechanical influences and any other loads.
- ▶ Do not touch any liquid leaking from the battery.
- ▶ If you have come into contact with liquid leaking from the battery, immediately rinse the affected part of your body thoroughly under plenty of running water.
- ▶ Consult a doctor immediately after rinsing, especially in case of eye contact and/or if mucous membranes (e.g. nasal mucosa) are affected.

⚠ WARNING**Health hazard due to irritation of the respiratory tract!**

If the battery is damaged, gases may escape which may irritate the respiratory tract.

- ▶ Protect the battery from mechanical influences and any other loads.
- ▶ If you notice or suspect that gas is leaking from the battery immediately ensure a supply of fresh air and seek medical attention as soon as possible.

⚠ CAUTION**Risk of burns!**

The cooling unit on the drive unit can become very hot during operation and you may burn yourself when touching it.

- ▶ Be careful when handling the battery.* If necessary, allow the drive unit to cool down completely first.

NOTE**Risk of damage!**

Improper handling can damage the drive system or its components.

- ▶ Before inserting the battery, make sure that the contacts on the battery.* If the contacts are damp or wet when inserted, the battery and the drive system may be damaged.
- ▶ When charging, make sure that the charger's cables cannot present trip hazards in order to prevent components from being damaged, e.g. by a fall.
- ▶ Always make sure that the cover flap of the charging socket on the E-Bike is sealed correctly and completely to ensure that no dust or splash water can enter the charging socket.

* Only applies to removable batteries, not to permanently installed batteries.

- Keep solvents and chemicals that can damage surfaces (e.g. cleaning products) away from the battery. The battery must not come into contact with them.

4 USAGE

4.1 Inserting/removing the battery



This only applies if your E-Bike is equipped with a removable battery [see [Chapter 1.1 "Battery and charger"](#)].

4.1.1 Inserting the battery



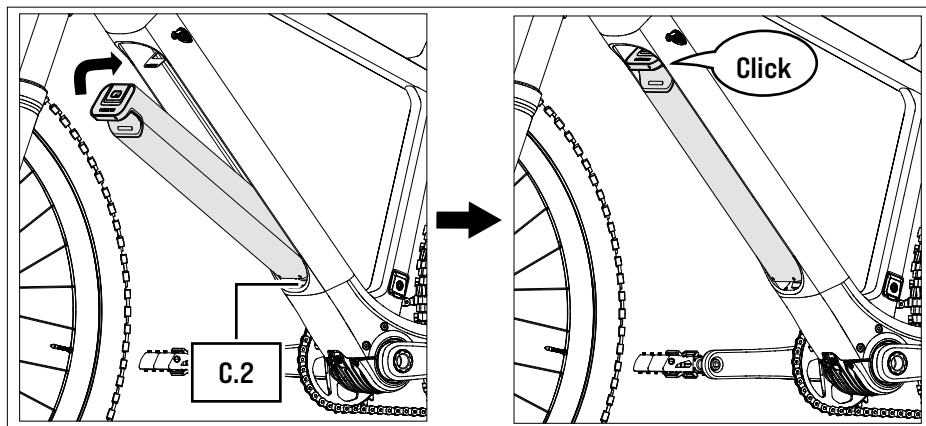
DANGER

Risk of explosion and fire

A damaged or dirty battery may explode and/or cause a fire.

- ▶ Never insert a damaged battery into the E-Bike.
- ▶ Check the battery for visible damage, such as cracks or burn marks, before each insertion.
- ▶ Make sure that the interfaces on the battery are free of dirt before using it.

1. Check the battery for visible damage before insertion (visual check).
2. Place the battery with the interface **[C.2]** first on the corresponding interface of the E-Bike.



3. Swing the top end of the battery into the down tube of the E-Bike.

The battery locks in place automatically when the two interfaces on the battery and the E-Bike are correctly interlocked and the battery is swiveled fully into the receptacle on the down tube. An audible engagement sound ("click") is heard when the device engages.

Contact an authorized specialist if the battery cannot be inserted or if the battery does not (audibly) click into place on the E-Bike.

4.1.2 Removing the battery



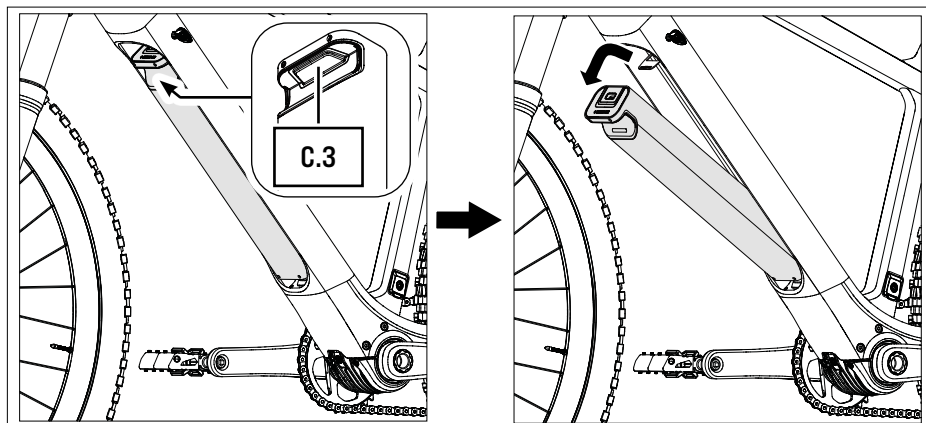
CAUTION

Risk of burns and injury!

The cooling unit on the drive unit can become very hot during operation and you may burn yourself when touching it. You may trap your fingers when removing the battery without due care.

- Be careful when handling the battery. If necessary, allow the drive unit to cool down completely first.
- When pressing the push button or removing the battery, be careful not to pinch your fingers.

1. Secure the battery with one hand.
2. Reach into the cutout on the battery and push the elastic pushbutton **[C.3]** in as far as it will go.



3. Press and hold the push button and gently pull the battery forwards out of the down tube on the E-Bike.
4. Remove the battery from the interface on the E-Bike.

4.2 Checking the battery's status

4.2.1 Checking the battery's current charge level



IMPORTANT: The system is not designed for checking the current charge level during the charging process to see whether the battery has already reached its maximum charge level or if it can still be charged. The LED display **[C.7]** on the charger is designed for this purpose.

→ You can find detailed information here in [Chapter 5.3 "Charging process"](#).

With all battery models you can check the charge level digitally using the FAZUA Toolbox and the FAZUA app.*

To check the battery's current charge level using the FAZUA Toolbox and the FAZUA app:

→ Connect the E-Bike (with battery inserted) via the USB socket** to a device with access to the FAZUA Toolbox, or open the FAZUA app.

With removable batteries, you can also check the current charge level directly on the battery.

To check the current charge level directly on the battery:

→ Tip the battery backwards and forwards.

Depending on the charge level, different numbers of LEDs light up on the charge level indicator **[C.11]**. Each LED represents 20% of the (charging) capacity. If all five LEDs are illuminated, the battery is fully charged.

* See [Chapter 9 "Riding and system data"](#).

** The USB cable required for this is not supplied.

4.2.2 Checking the battery's state of health (SoH)

With the removable battery ENERGY 480, it is possible to check the battery's so-called "state of health" (SoH).



The state of health (SoH) is an indicator of the battery's capacity over its useful life. As a rule, the SoH depends on the number of charge cycles.

The battery's state of health affects the battery's performance /charging capacity.

If the state of health is 80%, for example, this means that the battery still has 80% of its original capacity when fully charged.

You can check the battery's state of health for both battery models digitally using the FAZUA Toolbox and the FAZUA app.*

Checking the state of health with the FAZUA Toolbox and the FAZUA app:

→ Connect the E-Bike (with battery inserted) via the USB socket** to a device with access to the FAZUA Toolbox, or open the FAZUA app.

5 CHARGING THE BATTERY



DANGER

Risk of electric shock!

Improper handling of the charger or incorrect mains connection may expose you and others to the risk of electric shock. Improper handling of the battery and/or charger or attempting to charge batteries with an incompatible charger could cause a fire.

► Read and follow the safety instructions in [Chapter 3.4 "Safety instructions"](#) before charging the battery.

The charging process can be interrupted at any time.

IMPORTANT: Only charge the battery **within the specified temperature range**.* Charging outside the specified temperature range may damage the charger and/or battery.

* See [Chapter 9 "Riding and system data"](#).

** The USB cable required for this is not supplied.

- Fully charge the battery prior to initial operation so that you can use the full capacity of the battery.



Porsche eBike Performance GmbH recommends that you do not allow the battery to discharge completely.

- Recharge the battery when the charge level reaches 20%.

5.1 Prepare charger

1. Pick up the mains adapter [C.6] and the power cord [C.9].
2. Plug the appliance plug [C.10] of the mains cable into the corresponding socket on the mains adapter.

5.2 Connecting/disconnecting the charger

IMPORTANT: The charging connection available to you for charging the battery depends on the battery model and your drive system's equipment.

Charging connection for permanently installed batteries on E-Bikes without:

- Charging socket [C.5] on the E-Bike.
→ See [Chapter 5.2.1 "Using the charging connection on the E-Bike"](#).

Charging connection for removable batteries on E-Bikes :

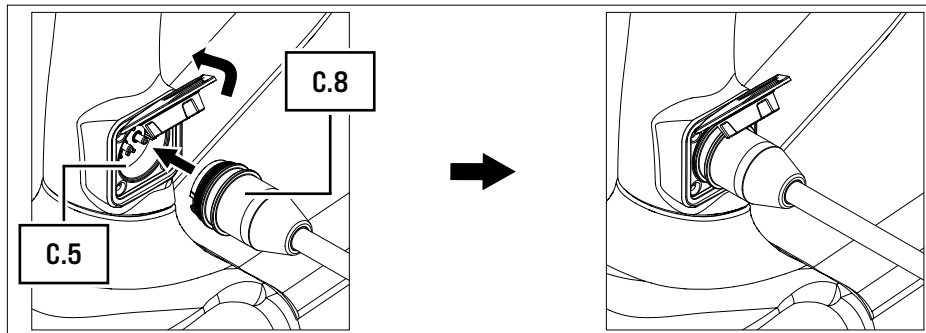
- Charging socket [C.5] on the E-Bike.
→ See [Chapter 5.2.1 "Using the charging connection on the E-Bike"](#).
- Charging socket [C.1] on the battery.
→ See [Chapter 5.2.3 "Using the charging connection on the battery"](#).

* You can find information about the temperature ranges in the data sheets for the individual components (see [Chapter 14 "Data sheets \(technical data\)"](#)).

5.2.1 Using the charging connection on the E-Bike

Connecting the charger

1. Open the cover flap to access the charging socket [C.5] on the E-Bike.
2. Insert the charging plug [C.8] into the charging socket [C.5].



3. Plug the power plug [C.9] into a suitable wall socket to establish the power connection.

Charging process

4. For information about the charging process, see [Chapter 5.3 "Charging process"](#).

Disconnecting the charger

5. When charging is complete, unplug the mains plug [C.9] from the wall socket to disconnect the charger from the mains.
6. Pull out the charging plug [C.8] from the charging socket [C.5] on the E-Bike.
IMPORTANT: Then immediately seal the charging socket [C.5] on the E-Bike by closing the appropriate cover flap.
7. Disconnect the mains cable [C.9] from the mains adapter [C.6] and keep the two parts separate.

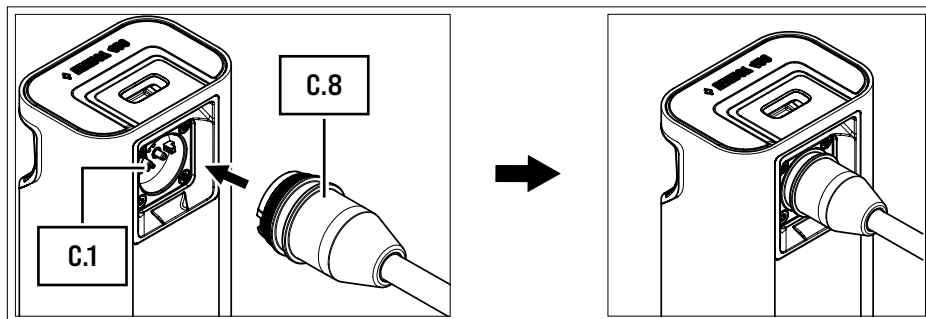
5.2.2 Using the charging connection on the battery



This chapter only applies to E-Bikes that are equipped with a removable battery (see [Chapter 1.1 “Battery and charger”](#)).

Connecting the charger

1. Remove the battery from the E-Bike (see [Chapter 4.1.2 “Removing the battery”](#)).
2. Insert the charging plug [C.8] into the charging socket [C.1] on the battery.



3. Plug the power plug [C.9] into a suitable wall socket to establish the power connection.

Charging process

4. For information about the charging process, see [Chapter 5.3 “Charging process”](#).

Disconnecting the charger

5. When charging is complete, unplug the mains plug [C.9] from the wall socket to disconnect the charger from the mains.
6. Insert the charging plug [C.8] into the charging socket [C.1] on the battery.
7. If necessary, reinsert the battery into the E-Bike.
8. Disconnect the mains cable [C.9] from the mains adapter [C.6] and keep the two parts separate.

5.3 Charging process

The charging process begins as soon as you have connected the charger to the E-Bike or battery on one side, and to the power supply on the other.

The flashing LEDs on the battery's charge level indicator **[C.11]** show that the battery is charging.*

During the charging process, the red **LED display [C.7]** on the charger lights up to indicate that the **battery is charging**.

When the color of the **LED display [C.7]** switches to **green**, this shows that the **battery is fully charged**.



The relevant indicator for determining whether the battery is fully charged is the LED display **[C.7]** on the charger.

It can occur that the LED display **[B.2]**, the charge level indicator **[C.11]** on the battery, the FAZUA app and the FAZUA Toolbox already display a charge level of 100%, however the red LED display **[C.7]** on the charger still lights up (for a while).

This can be caused, among other things, by unbalanced cells which will synchronize again during the automatic balancing process.

→ Do not disconnect the charger from the charging connection used until the charger's **LED display [C.7]** has changed from red to green.

* Only applies to removable batteries, not to permanently installed batteries.

6 **CLEANING**

NOTE

Risk of damage!

Improper cleaning can damage the battery, and the charger.

- ▶ Never immerse the battery, or charger in water or other liquids. Keep liquids away from the battery, and charger.
- ▶ Do not use aggressive cleaning agents for cleaning.
- ▶ Do not use sharp, angular or metallic cleaning objects when cleaning.
- ▶ Always keep all components of the E-Bike and the drive system in a clean condition.

6.1 **Cleaning the battery**



IMPORTANT: The cleaning instructions in this chapter concern the removable battery and the only.

If your E-Bike is equipped with a permanently installed battery, you do not need to clean it separately.

- Remove the battery (see [Chapter 4.1.2 “Removing the battery”](#))
- Clean the exterior of the battery gently with a cloth or soft brush.
- If necessary, use a mild soap solution for the external removal of coarser soiling.

IMPORTANT: Dampen the cloth only slightly or wring it out well to prevent liquid from penetrating inside the housing and the contacts/interfaces.

If liquid gets inside the housing or into the contacts/interfaces, the battery may be damaged and the electrical safety may be impaired.

- Wipe all surfaces dry after cleaning.

IMPORTANT: Pay particular attention to the contacts and interfaces between the battery and drive unit: To avoid damage, the interfaces must not be soiled or contaminated and must be completely dry before inserting the battery.

6.2 *Cleaning the charger*

- Clean the exterior of the charger gently with a cloth or soft brush.
- If necessary, use a mild soap solution for the external removal of coarser soiling.

IMPORTANT: Dampen the cloth only slightly or wring it out well to prevent liquid from penetrating the inside of the housing and the connections. If liquid enters the interior of the housing or the connections, the charger may be damaged and electrical safety may be impaired.

- Wipe all surfaces dry after cleaning.

* This only applies if your E-Bike is equipped with a removable battery (see [Chapter 1.1 "Battery and charger"](#)).

7 STORAGE AND TRANSPORT



WARNING

Danger from accidental starting!

Starting the drive system in unsuitable situations can result in accidents and serious injury.

- ▶ To prevent the drive system from starting up, switch off the drive system and, if necessary, prevent it from being switched back on unintentionally or unnoticed when the E-Bike is being transported or stored.
- ▶ If possible, remove the battery*.

→ Prior to transport and storage, always disconnect the charger from the battery and transport/store the charger separately from the battery.

→ Store the charger, battery and, if applicable:

- in a cool, dry place,
- protected from direct sunlight, sources of heat and frost,
- out of the reach of children.

→ When transporting and storing your E-Bike or battery and charger, observe the specified temperature ranges for the components.

You can find information about the temperature ranges in the data sheets for the individual components (see [Chapter 14 “Data sheets \(technical data\)”](#)).

→ If your E-Bike has a removable battery and, always transport and store the battery separately from the E-Bike.

The following applies as a matter of principle: All batteries (and cells) containing lithium are subject to the regulations for transporting dangerous goods.

All removable batteries, all permanently installed batteries and the of the FAZUA RIDE 60 drive system are (rechargeable) batteries that contain lithium.

* This only applies if your E-Bike is equipped with a removable battery (see [Chapter 1.1 “Battery and charger”](#)).

As long as the respective battery is not damaged, it may be transported by road by private individuals. Commercial transport requires compliance with the rules on the packaging, labeling and transport of dangerous goods. Open contacts must be covered and the respective battery must be securely packed. When sending, the parcel service must be informed of the presence of dangerous goods in the packaging.

→ When transporting and sending the battery, observe the information in the document "Lithium-ion battery product safety data sheet". You can find and download this online at <https://fazua.com/support/help-center/downloads/>.

→ During longer periods of inactivity, observe the following information about the storage location, the temperature range and the charge level.

Storage location: Store the battery in a dry place at an ambient humidity of less than 60%, in a clean environment, free from dust and corrosive substances.

Temperature range: Please note the information about storage temperature (ambient temperature in the place of storage) for your battery (see [Chapter 14 "Data sheets \(technical data\)"](#)).

Charge level: If you do not intend to use the battery for an extended period of time, it should have a minimum charge level of 60% before you stop using it.

Check the charge level of the battery after 6 months of non-use:

If the check reveals that the charge level is 20% or less, recharge the battery to a charge level of 60% or more.

→ If you have further questions, please contact a FAZUA Certified Partner or visit the FAZUA service platform (<https://fazua.com/support/contact/>).

8 ***RIDING AND SYSTEM DATA***

Information about the battery (e.g. current charge level, SoH, etc.) belong to the riding and system data of your FAZUA RIDE 60 drive system.

→ To access the riding and system data, observe the information in the system operations manual of the FAZUA RIDE 60 drive system.

9 ***TROUBLESHOOTING***

1. If your E-Bike or the drive system does not function as desired, first check whether the fault can be rectified using the “Troubleshooting” overview table in the system operations manual for the FAZUA RIDE 60 drive system.
2. If necessary, contact a FAZUA Certified Partner or visit the FAZUA service platform (<https://fazua.com/support>), if:
 - the error is not listed in the overview table,
 - the error is listed in the overview table, but it cannot be corrected in the way described there or you are unsure.

10 ***DISPOSAL INFORMATION***

According to the EU Directives for waste electrical and electronic equipment (Directive 2012/19/EU) and spent batteries (Directive 2006/66/EC), the relevant components must be collected separately and disposed of in an environmentally sound manner.

→ Before disposing of your E-Bike, remove the battery and any other batteries installed on the E-Bike as well as all components and controls that contain batteries.

→ Dispose of removable batteries separately to the E-Bike.

→ Dispose of the E-Bike fitted with a permanently installed battery according to the instructions for old batteries (see [Chapter 10.2 “Disposing of batteries”](#)).

10.1 ***Disposal of the charger***

At the end of its service life, the charger must be disposed of as waste electrical equipment for possible recycling.

→ Find out from your city or municipal administration (municipality, district) about free collection points for old electrical appliances and/or collection points for recycling the charger.

→ When disposing of the product, observe the guidelines of the US environmental protection agency (www.epa.gov).

10.2 *Disposing of batteries*

The drive system battery are lithium-ion batteries which must be disposed of as hazardous waste.

→ Dispose of the drive system's battery, and any other batteries installed in the E-Bike at a recycling center or a collection point in your town or municipality.

11 *CONSUMER WARRANTY IN THE USA*

Porsche eBike Performance GmbH guarantees the end customer (hereinafter referred to as the "customer"), in accordance with the following provisions, that the drive system and its components (hereinafter referred to as the "product") installed in the bike purchased by the customer is free of design, material and workmanship defects, and shall remain fully functional for a period of two years from delivery (warranty period).

However, if a fault should occur or the drive system is not fully functional, Porsche eBike Performance GmbH shall remedy the fault, at its own discretion and expense, either by repairing it or by delivering new or reconditioned parts.

However, warranty claims can only be asserted if:

- the product does not show any damage or signs of wear and tear resulting from a use that deviates from normal operation or from the specifications provided by Porsche eBike Performance GmbH in the operations manual.
- the product does not show any signs that suggest that repairs or other interventions have been carried out by a person who has not been authorized by Porsche eBike Performance GmbH.
- The damage is not due to improper handling or subsequent maintenance or to the lack of skills, competence or experience of the user or installer.
- The product has been installed or maintained by an authorized FAZUAdealer.
- The product has not been altered, neglected, used in a competition or for financial commercial purposes such as hiring, courier services, police or rescue services, etc., or misused or abused or involved in an accident or otherwise used in a way that is different to normal use.
- No components, parts or accessories have been installed that were not originally intended for use with or are not compatible with FAZUA products.
- The serial number has not been removed or been made illegible.
- The fault was reported within fourteen (14) days after discovering the fault.

Claims arising from this warranty may only be asserted if:

- prior to returning the product, the customer has contacted either the dealer from whom he purchased the bike or Porsche eBike Performance GmbH and given the dealer or Porsche eBike Performance GmbH the opportunity to analyze the fault over the telephone within a period of eight days.
- the product is delivered or returned to Porsche eBike Performance GmbH.
- the original invoice with the purchase date is presented.
- shipping is carried out by a transport company specified by Porsche eBike Performance GmbH. The customer may use a different transport company at its own expense.

In the event of a resale, this warranty shall only also apply to each subsequent owner of the product to the extent described above and under the conditions specified above (including the proof of purchase requirement). Each new owner shall benefit from the warranty based on the time remaining from the original date of purchase.

In view of the above-mentioned warranties of Porsche eBike Performance GmbH, the buyer declares that it agrees with, and accepts, the following conditions:

- This warranty is subject to the law of the United States, unless it conflicts with the mandatory consumer protection provisions applicable in the country of the respective customer.
- This warranty applies in place of all other express or implied warranties.
- ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED AND/OR WAIVED.
- This legal remedy replaces all other legal remedies or claims for damages, to which the buyer may be entitled vis-à-vis Porsche eBike Performance GmbH whether for consequential damages or other damages.
- Porsche eBike Performance GmbH shall not be liable for loss or damage, caused in whole or in part by its acts, omissions or negligence or by contingencies beyond its reasonable control.

12 SERVICE



A list of **authorized specialists** for repair and maintenance work can be obtained from the official FAZUA service partners. Contact the FAZUA service team or visit the FAZUA service platform to find a FAZUA Certified Partner in your region.



If possible, prepare a description of the fault and all information about the relevant component before contacting a FAZUA Certified Partner or the FAZUA service team.

→ If you require service, contact a FAZUA Certified Partner or the FAZUA service team.

→ Also visit the FAZUA service platform, if necessary:

<https://fazua.com/support/contact/>

It provides extensive content on the subject of "Service" as well as a search function for locating FAZUA Certified Partners in your area.

13 CONFORMITY

Porsche eBike Performance GmbH confirms conformity according to 47 CFR section 15.19 – Information for the user.

This device meets the requirements of part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device must not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Porsche eBike Performance GmbH confirms conformity according to 47 CFR section 15.21 – Information for the user.

NOTE: This device has been tested and found to comply with the limits for a class B digital device pursuant to part 15 of the FCC Rules. Any changes, alterations or modifications not expressly approved by the party responsible for conformity could void the user's authority to operate the device. 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. If it is not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not be generated from a specific installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the device 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 distance between the device and the receiver.
- Connect the device to an outlet on a different circuit than the one to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

14 DATA SHEETS (TECHNICAL DATA)


14.1 ENERGY 430 / ENERGY 430 fix

Model designations	→ ENERGY 430 ENERGY 430 fix
Weight, approx.	→ 4.85 lb [2,200 g] fix 5.07 lb [2,300 g]
Operating temperature	→ 23 °F to 113 °F [-5 °C to +45 °C] [ambient temperature]
Storage temperature [optimal]	→ 5 °F to 77 °F [-15 °C to +25 °C]
Charging temperature	→ 32°F to 113° F (0°C to 45°C)

14.2 ENERGY 480 / ENERGY 480 fix

Model designations	→ ENERGY 480 ENERGY 480 fix
Weight, approx.	→ 5.07 lb [2300 g], 4.85 lb [2200 g] fix,
Operating temperature	→ 14 °F to 140 °F [-10 °C to +60 °C] [ambient temperature]
Storage temperature [optimal]	→ -4 °F to 68 °F [-20 °C to +20 °C]
Charging temperature	→ 50°F to 113° F (10°C to 45°C)

14.3 *Charger 3A/3A90*

Model designations	→ Charger 3A (STC-8207LD) Charger 3A90 (STC-8207LD)
Nominal input voltage	→ 100–240 V AC
Frequency	→ 50–60 Hz
Charging current	→ 3 A
Charging time, approx.	→ 3.5 h
Protection class	→ 2 [symbol: 
Weight, approx.	→ 1.57 lb (710 g)
Operating temperature	→ 32 °F to 95 °F (0 °C to +35 °C) [ambient temperature]
Storage temperature	→ 32 °F to 113 °F (0 °C to +45 °C)



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