PORSCHE eBike Cross | PORSCHE eBike Cross PERFORMANCE PORSCHE eBike Cross PERFORMANCE EXC | PORSCHE eBike Sport



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#### Introduction

Dear customer,

Thank you for buying this PORSCHE eBike. You have chosen a high-quality product.

This instruction manual contains information about the safe use and maintenance of your PORSCHE eBike. Please read the instruction manual carefully before you go for your first ride,

so that you can find out about the risks associated with the incorrect use of your eBike.

In this instruction manual it is not possible to describe in detail all the maintenance that your PORSCHE eBike needs. Therefore, you should also refer to the enclosed instructions provided by our component manufacturers and visit their websites.

It is important that you care for and maintain your PORSCHE eBike correctly. This will help to ensure that it runs without problems and performs at its best. This manual cannot teach you the skills you need to be a bike mechanic. In addition, special tools are needed for some jobs.

Therefore, you should have maintenance and repairs carried out by the Porsche Cen-

tre or ROTWILD authorised dealer that supplied your bike.

If you are not able to contact the Porsche Centre or dealer, you will find a list of other ROTWILD authorised dealers on our website at www.rotwild.com.

PORSCHE is constantly developing and improving its cycles, in collaboration with ROTWILD, and reserves the right to make changes to the design, equipment and technology. For this reason, you cannot make any legal claims on the basis of the information, illustrations and descriptions in this instruction manual.

The PORSCHE eBike is supplied almost completely pre-assembled. Nevertheless we recommend that you check the bike's functions before riding it. Always wear suitable safety clothing, including a helmet, gloves and glasses.

Before you ride the bike on public roads, you should check the regulations that apply in your country and ensure that your eBike meets the necessary requirements. You should also follow the road traffic regulations and behave considerately to avoid

putting yourself and other road users in danger.

The standard equipment required on bicycles in other countries may differ from that in Germany. In particular, the road traffic regulations may be different.



#### INFORMATION

Before you use your bike, find out about the regulations that apply to cyclists and bikes on the roads in your country.

When you use your PORSCHE eBike off road, you must comply with the law in your country. We would also ask you to respect nature and the environment.

We at PORSCHE hope that you enjoy riding your new PORSCHE eBike.

# Requirements for riders

Please follow the national regulations in your country.

Where no other legal requirements apply to riders of electrically assisted bikes, we recommend that the rider should be a minimum of 15 years old and have experience of riding pedal-powered bikes.

In addition, the rider must have the physical and mental capability to ride a pedal-powered eBike.

You should only use your PORSCHE eBike for its intended purpose (see the section "Proper use of the eBike"). This will ensure that the PORSCHE eBike is always ridden in accordance with the intended category of use.

If the PORSCHE eBike is not used properly, this will invalidate the warranty.

Make sure that you understand the technical terms that are explained in this instruction manual on the page where there is an overview of your PORSCHE eBike.

Please note that this instruction manual does not describe how to build a PORSCHE eBike from parts or how to turn a partially assembled eBike into a roadworthy bike.

Keep this manual in a safe place so that you can carry out the function checks correctly at any time. Parents should explain the contents of the manual to their children if they do not understand it.

**Rider's height.** Porsche Centre or ROT-WILD authorised dealer will help you to choose the right frame size for your height. The PORSCHE eBike comes in different frame sizes. for people of the following heights:

Frame size:

[S] Height: 1.56 – 1.70 m [M] Height: 1.68 – 1.82 m [L] Height: 1.80 – 1.94 m

# Language

The original instruction manual is written in German. Other language versions are translations and are not valid without the German original instruction manual.

You can find the latest version of the instruction manual in each language via the following QR codes.



Español



Italiano



Česky



Nederlands



Français



Polski



English



Deutsch

# **Safety**

# Safety information in the instruction manual

The following types of safety information are provided in this instruction manual:

# **↑** DANGER

#### Serious injuries or death.

If you do not follow the safety information in the "Danger" category, you will suffer serious injuries or death.

#### **M** WARNING

#### Serious injuries or death possible.

If you do not follow the safety information in the "Warning" category, you could risk serious injuries or death.

# **⚠** CAUTION

#### Moderate or minor injuries possible.

If you do not follow the safety information in the "Caution" category, you could suffer moderate or minor injuries.

#### INFORMATION

#### Damage to property possible.

If you do not follow the safety instructions in the "Note" category, you could cause damage to the PORSCHE eBike.



#### **INFORMATION**

Additional information, tips and notes come under the heading "Information". Please read and follow them carefully.

# Symbols on the product

Sym	ıbol	Meaning
$\triangle$	(i)	General warning. Refer to the owner's manual.
Ø	Ø	Separate disposal of electircal and electronical equipment and batteries.
<b>€</b>	<b>S</b>	Do not burn.
<b>%</b>		(Do not burn). Do not open battery. Device in protection class II. Read instructions.
		Keep at temperatures below 50°C and out of direct sunlight.
2	<u>}</u>	Recycable material.
		Device in protection class II.
	<b>=</b>	Fuse (device fuse).
	}	Only for indoor use.

# **Current regulations**

The PORSCHE eBike models described in this instruction manual are electrically assisted (EPAC). They meet the requirements of the EN 15194 standard, among others.

This instruction manual complies with the standards listed in the EU declaration of conformity

that can be found at the end of the instruction manual.

You should use only original spare parts and accessories on your eBike. PORSCHE cannot be held liable for any damage caused if other spare parts and accessories are used.

Your ROTWILD authorised dealer will have a list of approved accessories.

Before you fit accessories to your POR-SCHE eBike, please check with your dealer that they are permitted and approved for road use.

## Type plate

Figure 1: Sample type plate for PORSCHE electric power assisted cycles (EPACs)



You will find the latest version of the instruction manual for your PORSCHE eBike at:

www.porsche.com/porschebikes

#### **General information**

# Version of the product and edition of the manual

This original instruction manual relates to the 2023 model year, which runs from May 2023 to December 2023.

The manual was published in May 2023.

#### Manufacturer

The manufacturer of the PORSCHE eBikes is:

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E-mail: info@rotwild.de

Website: www.rotwild.com

# Copyright

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# Target group/users

This original instruction manual is intended for the rider and operator of the PORSCHE eBike described here.

The operator generally has the right of disposal over the PORSCHE eBike and makes it available for the rider to use and for the specialist dealer to maintain and repair. If the eBike is being test ridden, hired out or loaned, for example, the operator and the rider may be different people.

ROTWILD authorised dealers have trained staff who are able to identify and prevent

the risks that can occur when maintaining and repairing the PORSCHE eBike.

# Scope of delivery

1 x eBike

1 x battery

1 x set of accessories

- Reflector set
- Front and rear reflector (eBike Cross, eBike Cross Performance/EXC)
- Side stand
- Charger
- Charging adapter
- 2 x battery keys
- Instruction manual

# Product and type designation

This original instruction manual applies to the following PORSCHE eBikes:

PORSCHE eBike Cross/PORSCHE eBike Cross Performance/PORSCHE eBike Cross EXC/Porsche eBike Sport

# **Emergency stop**

#### **⚠** CAUTION

The eBike does not have a separate emergency stop or shut-off button.

The bike can be shut down by removing the battery or taking the connector out of the drive system.

#### Power

The power is switched off as soon as the rider stops pedalling. The eBike can be stopped mechanically using the brakes. The brake system is not connected to the drive system.

#### **↑** CAUTION

When support mode is switched on, the drive system responds to the smallest pressure on the pedals.

When you get off the bike, you should apply the brakes to prevent it from rolling away and to reduce the risk of an accident.

# **Pushing aid mode**

When the pushing aid mode is switched on, the drive train will disconnect as soon as you release the walk-assist button.

# **(i)**

#### **INFORMATION**

The drive system does not switch off when you apply the brakes, which means that it is always available.

Figure 2: Applying the brakes/pulling away



The eBike must only be switched on if the rider is ready to apply the brakes, in other words, if he or she can reach at least one of the brakes.

Figure 3: ON/OFF switch



# **⚠** CAUTION

The eBike must be switched off as soon as the rider is no longer able to apply the brakes.

# **Detailed information**

Figure 4: Detailed information about the PORSCHE eBike



1	Suspension fork
2	Handlebars
3	Stem
4	Frame
5	Saddle clamp
6	Saddle
7	Seat post
8	Rear triangle/swing arm
9	Cassette
10	Rear dérailleur
11	Spoke
12	Rim
13	Tyres
14	Chain
15	Chain ring
16	Crank
17	Pedals
18	Motor
19	Down tube with drive battery
20	Disc brake
21	Shock
22	Linkage

Please refer to the parts list for your model to find out whether your eBike has the components listed here.

# Important information

The frame of the PORSCHE eBike is made by hand from high-quality carbon fibre composite and is designed to be robust enough for the intended category of use of the eBike (see the section "Proper use of the eBike").

#### **M** WARNING

# Damage to the frame caused by excessive stresses, accidents or crashes.

A damaged frame can suddenly fail and cause a crash. If your PORSCHE eBike is damaged or if you have had an accident or a crash, contact your Porsche Centre or your ROTWILD authorised dealer.

The PORSCHE eBike has a modern, light-weight design and its components have a limited life span. Different materials and components react in different ways to wear and fatigue caused by stress. If a component exceeds its design service life, it can suddenly fail. This may result in the rider being injured.

#### **INFORMATION**

Specific information about carbon. Please note that carbon and aluminium behave in a fundamentally different way when damaged. Unlike aluminium, when carbon is overstressed it does not become dented or deformed.

The effects of damage to carbon are generally internal and invisible (cracks). After a crash, the frame and front wheel fork must be checked by a dealer and replaced if the carbon structure has been damaged. Carbon components can suddenly fail as a result of damage.

#### **⚠** CAUTION

If the fibres have broken, take care when handling the material. The fine carbon fibres can cause injuries.

Components made from carbon must never be straightened after they have been damaged. They must be replaced immediately. Paint damage must be repaired to prevent the material from absorbing moisture, which could have a negative impact on its properties. Please note that carbon fibre is highly sensitive to pressure when clamped (for example the saddle and dérailleur clamps).

#### **INFORMATION**

Always use a torque wrench and note the recommended tightening torques (see the section "Recommended tightening torques").

Keep the contact surfaces of the carbon free of grease. Use special carbon assembly paste (available from bike dealers). Never clamp a carbon frame in a stand (when maintaining the bike) or in a roof rack. Only use the seat post for this purpose, providing that it is not made from carbon fibre.

Make sure that carbon components do not get too hot, for example if exposed to sunlight in a car.

We recommend that you do not paint or powder coat your frame or front wheel fork. These processes can involve high temperatures which could damage or destroy the components.

If you have had the frame or fork partially repainted, you must ask your ROTWILD authorised dealer to check them.

#### **M** WARNING

#### Material fatigue in carbon components.

Carbon components that are exposed to high levels of stress, such as handlebars, stems and seat posts, can suffer from material fatigue in the same way as metal parts.

Have your bike serviced regularly at the recommended intervals so that these components can be checked.

#### **M** WARNING

# **Using damaged carbon components.** If carbon frames, carbon forks or other carb

carbon frames, carbon forks or other carbon components make cracking noises or if you can see cracks, nicks or dents, you must stop using them. Damaged carbon components can suddenly fail and cause a crash.

The damaged carbon components must be replaced immediately.

Your ROTWILD dealer will clean the eBike thoroughly and check it for signs of material fatigue.

### **⚠** CAUTION

If you notice any signs of material fatigue while you are using the eBike, you must stop using it immediately and inform your PORSCHE Centre or your ROTWILD authorised dealer. You can also ask your ROTWILD authorised dealer to check the eBike for material fatigue.

#### **INFORMATION**

If you have bought your PORSCHE eBike online, you can contact the PORSCHE Design Customer Service in the event of signs of material fatigue.

The e-mail address of the PORSCHE Design Customer Service is: customerservice@porsche-design.de

# Proper use of the eBike

Using the eBike properly includes following the instructions on operating, maintaining and servicing the bike in this instruction manual. The instruction manual has been written specifically for your PORSCHE eBike, but cannot describe your PORSCHE eBike down to the smallest detail.

The PORSCHE eBike is an electric mountain bike. The models described in this manual are designed for private use on paved roads and paths and for off-road riding in accordance with the specified category of use. They are intended to transport one person. See the section "Categories of use".

# Safety information

If you do not follow the safety instructions in this instruction manual, you run the risk of the eBike breaking down. PORSCHE will not be liable for the resulting damage.

#### **INFORMATION**

The total permitted weight of the POR-SCHE eBike, including the rider and any luggage, is 120 kg and is shown on the type plate of the eBike.

#### **M** WARNING

**Using child seats and child trailers.** POR-SCHE eBikes are not approved for child seats or for towing child trailers. Do not use child seats or child trailers.

Your ROTWILD authorised dealer will have a list of approved accessories.

#### **M** WARNING

**If the drive system is switched on**, bags or loads can activate the pushing aid mode.

They can also interfere with other functions, such as braking.

#### **M** WARNING

Overloading the eBike. Overloading the eBike can cause safety-related components to break or fail (for example the frame, front wheel fork, handlebars, stem, seat post etc.). Do not exceed the total permitted weight under any circumstances. Never take a second person on the bike. You must not use the eBike if it is damaged or incomplete, for example if the drive battery has been removed.

#### **⚠ WARNING**

#### Uncontrolled riding.

By failing to fasten loads properly and riding carelessly you can put yourself and other road users at risk. You can lose control of the eBike. Do not transport bags or other loads on the handlebars. Do not ride with your hands off the handlebars. Only ride on suitable surfaces that have sufficient grip. Wear a bike helmet for your own safety to help you to avoid head injuries.

The eBike has rotating and moving parts. If you wear the wrong type of clothing, use the eBike incorrectly or fail to pay attention, there is a risk that you will be injured.



#### **INFORMATION**

#### Kickstands / centre stands.

The PORSCHE models with the type designation specified on the cover can only be fitted with the side stand that is supplied with them.

#### **M** WARNING

Using the eBike in any other way does not constitute proper use. No liability will be accepted if the eBike is not used properly. This will also invalidate the warranty. This includes lending the eBike to a rider who is not familiar with it, transporting more than one person, riding with excessive luggage, riding with your hands off the handlebars, riding on unsuitable surfaces (ice or snow) and incorrect maintenance or repairs.

You must not hang shopping bags or similar loads on the handlebars.

# Problems while using the eBike

If you notice unusual noises, vibrations, smells, discolouration, deformed compo-

nents, friction or wear while riding or maintaining the eBike or while charging the drive battery, you must stop using it and take it to your ROTWILD authorised dealer. The same applies if the bike feels different, for example during braking, pedalling or steering.

#### INFORMATION

Please follow the instructions for use and assembly provided by the component manufacturers which are included with your eBike, together with the instruction manual for use on the component manufacturers' websites.

Your Porsche Centre or ROTWILD authorised dealer will be happy to answer any further questions you may have.

# Categories of use

The various PORSCHE eBike models are suitable/designed for different categories of use:

#### Category 1

This is a set of conditions for the operation of a bicycle on a regular paved surface where

cle on a regular paved surface where the tyres are intended to maintain ground contact.

# Category 2 PORSCHE eBike Sport

This is a set of conditions

for the operation of a bicycle that includes Category 1 as well as unpaved and gravel roads and trails with moderate inclines. The tyres may briefly lose contact with the ground. Jumps and drops are restricted to a maximum height of 15 cm.

# Category 3 PORSCHE eBike Cross PORSCHE eBike Cross PERFORMANCE

# PORSCHE eBike Cross PERFORMANCE EXC

This is a set of conditions for the operation of a bicycle that includes Category 1 and Category 2 as well as rough trails, rough unpaved roads, and rough terrain and unimproved trails that require technical skills. A good riding technique is needed. Jumps and drops are restricted to a maximum height of 61 cm.

#### Category 4

This is a set of conditions for the operation of a bicy-

cle that includes Categories 1 to 3 and riding downhill on rough trails at a speed of up to 40 km/h. Jumps and drops are restricted to a maximum height of 122 cm.

# Kategorie 3

Kategorie

# Using the eBike

#### **M** WARNING

Only use the PORSCHE eBike in the manner described in this instruction manual. Any other type of use constitutes improper use and can lead to accidents, injuries or damage to property. If you pass the product on to a third-party, hand over all the documents. Keep all the documents for later use.

# **MARNING**

The PORSCHE eBike is not a toy. Never leave children unsupervised with the packaging, because there is a risk of suffocation. Children often underestimate the dangers involved. Always keep children away from the product.

#### **INFORMATION**

The manufacturer and the dealer accept no liability for damage caused by improper or incorrect use.

# **Shimano Steps EP8 operating system**



#### **INFORMATION**

The support switch of the Shimano Steps EP8 operating system is on the left of the handlebars when you are sitting on the bike. The display is on the right of the handlebars when you are sitting on the bike.

# **Description of the functions**

The operating system has two buttons and a support switch. The functions are as follows:

# On/off button (1)

Using the on/off button (1) on the top tube, you can switch the PORSCHE eBike on and off. If you do not use the PORSCHE eBike for around 10 minutes, the system switches off automatically to save energy.

# Display button (2)

By pressing the display button (2) while you are riding, you can change the ride data shown on the display.

When the eBike is stationary, pressing and holding the display button (2) for around two seconds allows you to access the settings menu and select items from the menu.

Figure 5: On/off button (1) and display button (2)



# Support switch (X/Y)

You use the support switch (X/Y) to select the level of support you want while you are riding. If you press the top button (X), you increase the level of support. To reduce the level of support, you press the bottom button (Y).

Figure 6: Support switch (X/Y)



# Settings menu

On the settings menu you can choose different options. Using the (Light) menu item, you can switch the lights on and off, if your bike has this option. The (Unit) menu item allows you to switch between metric and imperial measurements.

You cannot access the settings menu while you are riding.

# Pushing aid mode

You switch on pushing aid mode by pressing and holding the bottom button in the support switch (Y) for around 2 seconds. The level of support shown in the display changes to (WALK). Pushing aid mode only continues working while you hold down the bottom button in the support switch (Y). As soon as you release the bottom button in the support switch (Y), pushing aid mode stops. To end pushing aid mode, you press the top button in the support switch (X). The level of support in the display changes from (WALK) to the support mode you had selected before switching to pushing aid mode.

## **⚠ WARNING**

#### Using pushing aid mode.

You must steer the eBike using both hands in pushing aid mode.

Please note that because of the design of the bike, the pedals may turn, so you should leave enough space for them to move. The power and speed of pushing aid mode can be adjusted by selecting a different gear.

# **Technical data**

MODEL:	PORSCHE eBike Cross RPORCT23
SUSPENSION ELEMENT	FOX FLOAT 3-POS DPS EVOL PERFORMANCE 200x50
HEADSET	ACROS RW750 1.5 HEADSET W/ BLOCK LOCK
FORK	FOX FLOAT 34 PERFORMANCE
HANDLEBARS	B280 AL7075 (35-740)
STEM	\$140 AL6061 / ML READY (50)
DISPLAY	SHIMANO SC-EM800
SEAT POST	CRANKBROTHERS HIGHLINE
SADDLE	ERGON SM SPORT
HANDLEBAR GRIPS	ERGON GA2O
DRIVE TRAIN	SHIMANO DU-EP801
BATTERY	SHIMANO BT-E8035-L 504WH (E8035 504WH (S))
CRANK	SHIMANO FC-E8150 36T. 160(S)/165(M/L)
CHAIN GUIDE	E13 TRS
SHIFTING LEVER	SHIMANO XT I-SPEC EV
REAR DERAILLEUR	SHIMANO XT 8100 SGS STANDARD PLUS
CHAIN	SHIMANO CN-HG7100 12-SPEED
CASSETTE	SHIMANO CS 6100 10-51T. 12-SPEED
BRAKES	MAGURA MT TRAIL HC1 / SHIFTMIX
DISC ROTOR	MAGURA MDR-P SENSOR 203/203
WHEELS	CRANKBROTHERS SYNTHESIS 110-15 BOOST/148-12TAS 6-BOLT
TYRES	CONTINENTAL CROSS KING (27.5x2.30 (S)/29x2.30(M/L))
PEDALS	CRANKBROTHERS STAMP 2
COLOUR	SILVER METALLIC/BLACK
TOTAL PERMITTED WEIGHT	ASTM3 - 120 KG

SUSPENSION ELEMENT	FOX FLOAT 3-POS DPS EVOL FACTORY 200x50
HEADSET	ACROS RW750 1.5 HEADSET W/ BLOCK LOCK
FORK	FOX FLOAT 34 FACTORY
HANDLEBARS	B220 FLATRISER-35 CARBON 780/15MM
STEM	S140 AL6061 / ML READY (50)
DISPLAY	SHIMANO SC-EM800
SEAT POST	CRANKBROTHERS HIGHLINE
SADDLE	ERGON SM SPORT
HANDLEBAR GRIPS	ERGON GA20
DRIVE TRAIN	SHIMANO DU-EP801
BATTERY	SHIMANO BT-E8036 630 WH (E8035 504WH (S))
CRANK	SHIMANO FC-EM900 36T. 160(S)/165(M/L)
CHAIN GUIDE	E13 TRS
SHIFTING LEVER	SHIMANO XT SW-M8150 I-SPEC EV Di2

CRANKBROTHERS SYNTHESIS CARBON 110-15 BOOST/148-12TAS 6-BOLT

CONTINENTAL CROSS KING (27.5x2.30 (S)/29x2.30(M/L))

RPORCP23

PORSCHE eBike Cross Performance

SHIMANO XT RD-M8150 12-SPEED Di2

SHIMANO CN-HG7100 12-SPEED

MAGURA MT 7 HC1 / SHIFTMIX

CRANKBROTHERS STAMP 2

SILVER METALLIC/BLACK

ASTM3 - 120 KG

MAGURA MDR-P SENSOR 203/203

SHIMANO XT CS-M8100-12 10-51T

22

TOTAL PERMITTED WEIGHT

REAR DERAILLEUR

CHAIN

CASSETTE

DISC ROTOR

**BRAKES** 

WHEELS

TYRES

PEDALS

COLOUR

MODEL:

# MODEL: PORSCHE eBike Cross Performance EXC RPORCPE23

SUSPENSION ELEMENT	FOX FLOAT 3-POS DPS EVOL FACTORY 200x50
HEADSET	ACROS RW750 1.5 HEADSET W/ BLOCK LOCK
FORK	FOX FLOAT 34 FACTORY
HANDLEBARS	B220 FLATRISER-35 CARBON 780/15MM
STEM	S140 AL6061 / ML READY (50)
DISPLAY	SHIMANO SC-EM800
SEAT POST	CRANKBROTHERS HIGHLINE
SADDLE	ERGON SM SPORT
HANDLEBAR GRIPS	ERGON GA20
DRIVE TRAIN	SHIMANO DU-EP801
BATTERY	SHIMANO BT-E8036 630 WH (E8035 504WH (S))
CRANK	SHIMANO FC-EM900 36T. 160(S)/165(M/L)
CHAIN GUIDE	E13 TRS
SHIFTING LEVER	SHIMANO XT SW-M8150 I-SPEC EV Di2
REAR DERAILLEUR	SHIMANO XT RD-M8150 12-SPEED Di2
CHAIN	SHIMANO CN-HG7100 12-SPEED
CASSETTE	SHIMANO XT CS-M8100-12 10-51T
BRAKES	MAGURA MT 7 HC1 / SHIFTMIX
DISC ROTOR	MAGURA MDR-P SENSOR 203/203
WHEELS	CRANKBROTHERS SYNTHESIS CARBON 110-15 BOOST/148-12TAS 6-BOLT
TYRES	CONTINENTAL CROSS KING (27.5x2.30 (S)/29x2.30(M/L))
PEDALS	CRANKBROTHERS STAMP 2
COLOUR	RUBY STAR NEO, ICE GREY METALLIC, MAMBA GREEN METALLIC, CARMINE RED, SHADE GREEN METALLIC, SHARK BLUE
TOTAL PERMITTED WEIGHT	ASTM3 - 120 KG

# MODEL: PORSCHE eBike Sport RPORST23

SUSPENSION ELEMENT	FOX FLOAT 3-POS DPS EVOL PERFORMANCE 200x50
HEADSET	ACROS RW750 1.5 HEADSET W/ BLOCK LOCK
FORK	MAGURA BOLTRON 100 MM 20x110
HANDLEBARS	MCI FLATBAR (740)
STEM	PORSCHE CUSTOM STEM (60)
DISPLAY	SHIMANO SC-EM800
SEAT POST	PORSCHE AERO SEATPOST W/ REAR LIGHT
SADDLE	ERGON SM PRO CARBON
HANDLEBAR GRIPS	ERGON GA20
DRIVE TRAIN	SHIMANO DU-EP801
BATTERY	SHIMANO BT-E8036 630 WH (E8035 504WH (S))
CRANK	SHIMANO FC-EM900 36T. 160(S)/165(M/L)
CHAIN GUIDE	E13 TRS
SHIFTING LEVER	SHIMANO SW-E600 Di2
REAR DERAILLEUR	SHIMANO XT RD-M8150 12-SPEED Di2
CHAIN	SHIMANO XT CN-HG7100-12
CASSETTE	SHIMANO XT CS-M8100-12 10-51T
BRAKES	MAGURA MCI 4-PISTON
DISC ROTOR	MAGURA MDR-P SENSOR 203/180
WHEELS	CRANKBROTHERS IODINE 2 110-20/148-12TAS 6-BOLT
TYRES	CONTINENTAL RACE KING (27.5x2.20 (S)/29x2.20(M/L))
PEDALS	CRANKBROTHERS STAMP 2
LIGHTS	SUPERNOVA M99 MINI PRO HIGH BEAM, SUPERNOVA M99 TL3 LED TAIL LIGHT W/ BRAKE LIGHT
COLOUR	BLACK METALLIC/BLACK
TOTAL PERMITTED WEIGHT	ASTM2 - 120 kg

# First use and before every ride

Please note that you must only use the eBike as described in the section "Proper use of the eBike". Find out about the intended use and maximum weight of your eBike in this important section.

During the assembly and final inspection processes for eBikes, we carry out several checks to ensure that they function properly. However, the functioning of your eBike may have been affected during transport and it is possible that an unauthorised third party has worked on your eBike.



#### **INFORMATION**

The Porsche Centre or ROTWILD authorised dealer that supplies the eBike will inform the rider or the operator about its functions at the latest during the handover process. The dealer will explain in particular about the electrical system and the correct use of the charger.

You must check over your eBike before every ride.

#### **⚠** CAUTION

The drive train starts unexpectedly. In order to prevent the drive train from starting unexpectedly the first time you use the bike or during assembly work, the drive battery must be removed from the down tube.

The system must be completely switched off when you first use the bike and during care, maintenance and repairs to ensure that an accident does not occur.

# Connecting the charger cable

Figure 7: Charger cable connector and drive battery.



The charging process starts automatically.

# Charging the drive battery

Before using the bike for the first time, charge the drive battery fully. Always use the charger that is supplied with the eBike. Charge the drive battery in a dry place and at the temperature specified in the instruction manual (0-40°C). (You can find the information you need in the section "Drive battery").

### Drive battery in the down tube

The drive battery is in the down tube of the eBike. It has an integrated electronic protection system that is designed for use with the charger supplied with the eBike. You insert the plug on the charger cable into the drive battery charging socket on the underside of the top tube. A mechanical coding system prevents the charger from being connected incorrectly.

#### **↑ WARNING**

The drive battery must only be charged using the charger supplied with the eBike. If you use another charger, you could cause a fire or an explosion.

# Front axle and seat post

Please check the bolts on the front axle and the seat post. The wheels must not turn when you do this.

Figure 8: Checking the safety cover on the front wheel.



Please note the recommended torque settings in the section "Torque table".

Figure 9: Checking the clamping screws on the front wheel.



Figure 10: Checking the clamping screws on the seat post.



Figure 11: Checking the wedge bolt on the seat post.



Check the tightening torques of the bolts on the through axle and the seat post (see "Recommended tightening torques").

#### **MARNING**

#### Loose components.

If the bolts are not fastened correctly, parts can come loose and cause a crash. Check the bolts to ensure that they are tight and tighten them if necessary.

Make sure that the wheels and the saddle are properly fitted.

# Wheels and tyres

Please check that the wheels and tyres are in good condition.

#### **M** WARNING

#### Worn tyres increase the risk of a crash!

Tyres with worn tread have less grip. You should ask your dealer to check the tread on your tyres regularly.

Check the tyre pressure with your thumb or better still with a pressure gauge. If the eBike is not used for a long time or is transported over a long distance, the tyre pressure can drop.

Figure 12: Checking the tyre pressure.



You should never let the tyre pressure exceed the maximum limit or fall below the minimum limit.

You will find the tyre pressure table in the section "List of tables".



#### INFORMATION

Make sure that both wheels turn freely and that they run true.

# **Brake system**

Please check the brake system the first time you use the bike. First of all, check the brake levers. In countries which drive on the right, the left-hand brake lever operates the front brake and the right-hand lever operates the rear brake.

In countries that drive on the left, the lefthand brake lever operates the rear brake and the right-hand lever operates the front brake.

Figure 13: Front and rear brake levers.



#### **↑ WARNING**

**Sudden braking.** If you apply the front brake suddenly, this can cause a crash.

Make sure that you are familiar with the arrangement of the brake levers and the effect of the brakes.

Because hydraulic disc brakes are highly effective, you should try out your brakes on a level road surface with good grip and away from traffic. Please read the section "Brake system" carefully.

#### **↑** DANGER

**Poor braking or brake failure.** Faulty or failed brake systems can lead to serious accidents. Check the functioning of the brakes before every ride.

If you can pull the brake levers right back to the handlebar grips, you will not be able to brake in good time. This could cause a crash or an accident. Before every ride, check that the brakes are functioning perfectly.

#### **Pedals**

PORSCHE eBikes are supplied from the factory with pedals.

The pedal manufacturer's instructions will include information about fitting them.

## **⚠** CAUTION

**Using click pedals.** Lack of practice or an over-tight release mechanism can cause a crash. Read the instructions that come with the pedals carefully. Adjust the release mechanism of the pedals as described in the instructions.



#### **INFORMATION**

You can find more information on the pedal manufacturer's website. Before your first ride, make sure that you are familiar with the functioning of the pedals while the bike is stationary.

# Handlebars, stem and suspension fork

You can adjust the handlebars, stem and suspension fork to suit your requirements. You can find detailed instructions on how to do this in the section

"Handlebars, stem and headset" and in the section "Suspension - suspension fork". Read these sections carefully to ensure that you make the adjustments correctly.

#### **⚠ WARNING**

#### Heavy or stiff steering.

If the steering is heavy or stiff, this can lead to a crash.

Make sure that the steering is light and the cables and brake cables do not restrict the steering lock.

#### **M** WARNING

An incorrectly adjusted suspension fork can lead to a crash. Make sure that your fork is correctly adjusted and has sufficient air. (You can find information about this in the section "Adjusting the suspension fork".)

# Saddle height and position

You can adjust the saddle height and position to suit your height and your preferences.



#### INFORMATION

You can find further information on how to adjust your saddle in the section "Adjusting the saddle".

# Switching the drive system on and off

Use the on/off button to switch the system on. The display field of the operating system shows that the system is ready for use.

Figure 14: On/off button



#### **⚠** CAUTION

When support mode is switched on, the drive system responds to the smallest pressure on the pedals.



#### **INFORMATION**

You will find information about riding on public roads in the section "Riding on public roads".

Before you ride on the roads, find out about any special requirements in your country.

# Checking the bolts

Lift your eBike about 10 cm off the ground with both wheels at the same height and let it fall vertically onto its tyres. If you hear any rattling noises, this can indicate that some components are loose.



#### **INFORMATION**

Find out where the noises are coming from and check the screw connections, the positioning of the drive battery and the bearings. If you are in any doubt, contact your ROTWILD authorised dealer.

# Riding on public roads



#### INFORMATION

If you want to ride your PORSCHE eBike on public roads, you must ensure that it has the equipment needed to meet the legal requirements in your country.

The eBike is supplied with a set of lights and reflectors. Instructions for fitting them are given in the section "Accessories".

#### **⚠ DANGER**

**Incorrect or inadequate set-up of the eBike.** An eBike that has been incorrectly or inadequately set up can cause a serious accident.

Do not use the eBike if it does not meet one of the requirements in this section. If you have questions or are unsure about using your eBike for the first time, contact your Porsche Centre or ROTWILD authorised dealer.

#### **↑ WARNING**

Fatigue damage and wear. Damage due to fatigue and wear can take the form of scratched, bent or cracked components or poor functioning of the eBike. Components that have passed the end of their service life may suddenly fail. Check your eBike regularly for signs of fatigue damage and wear. Replace the handlebar grips and plugs if they are damaged or worn. If you notice a problem, contact your ROTWILD authorised dealer.

#### **MARNING**

Precautionary measures when riding in the dark. If you are riding at night or in poor visibility using lights, make sure that your lighting system meets the legal requirements in your country. Check that the front and rear lights are working properly.

Do not ride with dirty or damaged reflectors.

#### **⚠ WARNING**

Precautionary measures in rain, snow or strong winds. Be aware that your eBike may react or function differently in bad or extreme weather conditions. For example, your braking performance will be less good in wet weather and you should adapt your riding style accordingly. In snowy or icy conditions you could lose control of your PORSCHE eBike and have a bad crash. Avoid riding your bike in extreme weather conditions. Only ride on suitable surfaces that have sufficient grip.

#### What to check after a crash

#### INFORMATION

A crash can prevent your eBike from functioning correctly and can also cause damage. After a crash you may not be able to use your bike again immediately. For this reason, you should carry out the following checks.

# Wheels and tyres

Check your wheels. They must be held firmly in position in the wheel mounts by the quick release lever or the bolts and must be in the centre of the front wheel fork and the rear triangle. They must turn freely and run true. Check your tyres and, in particular, the carcass for damage.

## **⚠** CAUTION

#### Risk of injury!

If you do not have the necessary technical knowledge or do not carry out the check correctly, you could be injured.

- Wear protective gloves.
- Keep your fingers away from moving parts and make sure they do not get trapped.

Figure 15: Front wheel and tyre.



Figure 16: Rear wheel and tyre.



#### Handlebars and stem

Check the handlebars and stem for damage. Make sure that the handlebar and stem cannot be turned in opposite directions. If the components can be turned in opposite directions, tighten the bolts with a torque wrench (see the section "Recommended tightening torques").

Figure 17: Handlebars and stem



#### Frame

Check the frame for damage. If the frame is cracked or deformed, contact your ROT-WILD authorised dealer.

#### Drive train

Check that the chain is on the front chain ring and the rear cassette. If the bike fell on the dérailleur side, damage may have been caused. Try shifting through the gears and make sure that the rear dérailleur and/or the dropout, which could be bent, are not too close to the spokes of the rear wheel.

Figure 18: Chain on the chain ring/cassette



#### **M** WARNING

#### Bent rear dérailleur.

If the rear dérailleur is bent into the spokes, you are at risk of crashing.

Do not use the PORSCHE eBike if the rear dérailleur is bent!

Contact your Porsche Centre or ROTWILD authorised dealer.

# Other checks

Make sure that your saddle has not rotated as a result of the crash. It should be aligned with the top tube.

- Check your eBike for loose bolts and components.
- Apply the brake levers to make sure that the brakes work.

Only use your eBike when you have checked all these things and found no problems. Avoid putting your eBike under stress for the rest of your ride, for example do not brake hard or ride out of the saddle. If you do not want to take any risks, you should complete your journey using another means of transport.

Check your eBike carefully again when you get home. If you have questions, contact your PORSCHE Centre or your ROTWILD authorised dealer immediately.

# **M** WARNING

#### Bent components.

You must not straighten bent components because there is a serious risk that they will break. This applies in particular to safety-related components such as the frame, front wheel fork, handlebars, stem and seat post.

Replace bent components immediately.

#### **↑ WARNING**

#### Faulty components.

Components that have been damaged in an accident can cause another accident if you go on using them.

Never use a faulty eBike or faulty components.

# **⚠ WARNING**

**Poor technical condition.** An eBike that is in poor condition can become damaged and cause a crash or an accident. Only use your eBike if it is in perfect condition.

# **Brake system**

## Checking the brake system

You can adjust the distance between the brake lever and the handlebar grip to suit the size of your hand.

# **Bedding in the brakes**

Take your eBike up to a certain speed and then brake until it comes to a standstill without locking the wheels. Repeat this procedure several times. When the hand force you need to apply to the brake lever does not reduce any further, the bedding-in process is finished.

# **Grip width**

You can adjust the grip width using the adjustment knob on the brake lever.

If the brake lever cannot be adjusted or is not safe, it must be checked by the ROT-WII D authorised dealer.

Figure 19: Brakes / grip width



#### **M** WARNING

There is too much travel on the brake lever. If you can pull the brake levers right back to the handlebar grips, you will not be able to brake in good time. This could cause a crash or an accident. Before every ride, check that the brakes are functioning perfectly.

#### **M** WARNING

If the front or rear brake is not adjusted correctly, the braking distance may be too long in a dangerous situation. This can cause a crash or an accident.

#### **⚠** CAUTION

#### Hot brake disc.

The brake disc and the calliper heat up during braking. If you touch them, you could be burnt.

Give the components of the brake system time to cool off before you carry out any work on them.

#### **M** WARNING

**Harmful liquids.** Brake fluid is toxic and corrosive. Do not undo the brake cables.

## **M** WARNING

## Leaking brakes.

If brake fluid is leaking, the brakes may fail. Check the brake system and the hydraulic lines regularly for leaks. If you find a leak, contact your ROTWILD authorised dealer immediately.

#### **⚠ WARNING**

Worn brake pads. If the brake pads are worn, the brakes will not function properly. If the metal pad holders are less than < 0.5 mm from the brake disc, the pads must be replaced following the brake manufacturer's instructions. Check the brake pads regularly for wear and replace them if necessary.

#### **INFORMATION**

If the wheels are removed, there is a risk of damage being caused to the brake system. Do not operate the brake lever. Fit the transport guard for the disc brake on the calliper.

## **Brake chafing**

If the brake pads rub on the brake disc while the bike is moving, the causes could be as follows:

- The brakes are not fully bedded in.
- The wheel is not centred in the axle mounts of the frame and/or the front wheel fork Re-centre the wheels
- The wheels are not securely located in the axle mounts. Check the quick release lever and the axle bolts.

#### **M** WARNING

#### Brake drag.

If the brakes drag all the time, they can overheat. As a result, they may not function properly.

Make sure that you bed in new brake pads. Check that the wheels are correctly positioned and securely mounted.



#### **INFORMATION**

Use only original spare parts that are approved by ROTWILD when replacing brake components. If you are in any doubt, contact your ROTWILD authorised dealer.

#### **INFORMATION**

Risk of damage to brake components through overheating.

## **⚠ WARNING**

**Brake fluid** will cause damage to the paintwork of your eBike and its components. Do not undo the brake cables.

#### **↑ WARNING**

## Dirty brake pads and brake discs.

Dirt on the brake pads and brake discs will reduce the friction coefficient and the effectiveness of the brakes.

Replace dirty brake pads immediately. Clean dirty brake discs with brake cleaner.

## **Drive system**

#### Electric drive

The bikes described in this instruction manual are fitted with an integral electric drive system. This consists of a motor, a control panel of the drive system, a display, a rechargeable battery and an external charger that is designed for use with the drive battery.

The drive system operates automatically. As soon as the muscle power being exerted by the rider exceeds a certain level, the motor gradually starts up and provides assistance for the rider. If the rider stops pedalling or if the bike reaches the speed of 25 km/h, the motor gradually shuts down. The bike has a pushing aid mode. In this mode, you can power the eBike at walking speed while pressing the button on the handlebars that is provided for this purpose. If you release the button, the drive train switches off immediately.

#### Motor

#### **INFORMATION**

Your eBike will make an audible noise! It is normal for you to hear noises from the electric motor. The noise your eBike makes may change over time and under different loads!

If your motor vibrates or makes a lot of loud and unusual noises, it may be faulty. If the motor sounds different from normal, you should switch it off.

We recommend having your eBike serviced regularly by your ROTWILD authorised dealer to ensure that it functions perfectly and to keep noise emissions to a minimum.

#### Mechanical drive

The mechanical drive train consists of all the components of the eBike that convert your pedalling power into propulsion.

These include the chain ring, pedal cranks, pedals, cassette, rear dérailleur, geared hub and chain or belt pulleys and belt.

The dérailleur allows you to adjust the gear ratio and to determine how far your bike will travel for each rotation of the cranks.

With a dérailleur, selecting a large rear sprocket will give you a low gear ratio that makes riding uphill easier.

A medium-sized or small rear sprocket gives you higher gear ratio. These are ideal for travelling at higher speed on level ground.

## **⚠** CAUTION

## Chain and chain ring.

Wide-legged trousers can get caught in the chain or chain ring and cause a crash. Wear tight-fitting trousers or use bicycle clips. Shoe laces, scarves and other items of clothing can get trapped in the spokes and the chain.

## **MARNING**

**Sudden loss of power and drive.** If you change gear under load, the chain can slip or jump off the chain rings. The resulting sudden loss of power and drive can cause a crash. Continue pedalling without excessive force when changing gear.

## **Cranks**

Check to make sure that both cranks are securely fitted by shaking them. There should be no play.

## Chain

Cleaning and lubricating your chain regularly will give it a longer life. Clean your chain with a cloth. Drip chain oil or grease onto the chain while turning the cranks. Continue turning the cranks to make sure that the chain oil is evenly distributed. Leave the chain for several minutes so that the chain oil or grease can penetrate. Remove any excessive oil with a clean cloth.

## **⚠ DANGER**

The drive system must be completely switched off during maintenance and repairs to ensure that an accident does not occur. To switch off the system, remove the drive battery.

Figure 20: Cleaning the chain



Figure 21: Lubricating the chain



## **↑** CAUTION

## Risk of injury!

If you do not have the necessary technical knowledge or do not carry out the maintenance correctly, you could be injured.

- Wear protective gloves.
- Keep your fingers away from moving parts.
- Make sure that your fingers do not get trapped.

#### **INFORMATION**

Danger to the environment and risk of damage to property. Oil and grease can pollute the environment. Excess oil and grease can make your clothes and other items dirty while you are riding.

To reduce your impact on the environment, use only biodegradable lubricants. Place a tray under the bike to catch drips of oil.

Do not put any remaining oil or grease in your household waste bin. Dispose of it at a recycling centre.

## **M** WARNING

**Poor braking.** Oil or lubricant on the brake pads and brake discs will reduce the friction coefficient and the effectiveness of the brakes.

Make sure that there is no oil or lubricant on the brakes.

Even if you maintain your chain regularly, it will still wear out. Chains will generally last for around 800 to 2500 km or for 40 to 125 hours of use.

#### **INFORMATION**

Replacing your chain regularly can extend the life of your chain rings and cassettes. To check the condition of the chain, pull it away from the chain ring with your thumb and first finger. If you can pull the chain a long way away from the chain ring, it is stretched and needs to be replaced. Your ROTWILD authorised dealer can carry out a more accurate check of your chain using special tools.

Figure 22: Checking the condition of the chain



# (i)

## **INFORMATION**

Only use original spare parts that are approved by ROTWILD when replacing your chain. Choose the right chain for your dérailleur.

## **M** WARNING

Sudden loss of power and drive. A worn chain can suddenly break or jump off the sprockets. The resulting sudden loss of power and drive can cause a crash. Check the condition of the chain regularly and replace it if necessary.

## Gear system

## **Changing gear**

The shifting lever for the rear dérailleur is on the right-hand side of the handlebars.

Each shifting lever has one large and one small lever. The large shifting lever is used to shift to the larger sprocket and the small lever to the smaller sprocket.

If your eBike has an electronic shifter, the shifting system on the right-hand side of the handlebars has a top and bottom button. By pressing the bottom button you change to a larger sprocket. Press the top button to move to a smaller sprocket.



#### **INFORMATION**

Please check the parts list for your model to see which type of gear shifter it is fitted with.

#### **INFORMATION**

The ideal pedalling frequency is between 70 and 90 revolutions per minute. You must choose the right gear in order for the electric drive system to function correctly.

Figure 23: The position of the shifting lever (mechanical)



Figure 24: The position of the shifting lever (electronic)



## Adjusting the gear system

If you cannot change gear cleanly, you need to make adjustments to the gear system on the shifting level housing. Gradually unscrew the adjuster on the shifting lever housing with your fingers and check the functioning of the gears after each turn.

To be able to turn the adjuster, you need to pull it out of position slightly. Make sure that it is back in position before you check the functioning of the gears.

If your eBike has an electronic shifter, you can set it up via the Settings menu on the display.



## INFORMATION

You will find more information about adjusting the gear shifter in the instruction manual provided by the manufacturer of the gear system.

# (i)

## **INFORMATION**

Please check the parts list for your model to see which type of gear shifter it is fitted with.

If you cannot adjust the gear shifting using this method, the system must be checked by the ROTWILD authorised dealer.

Figure 25: Limit stop screw



# (i)

## INFORMATION

The levers may be arranged differently depending on the model and the manufacturer. Read the instruction manual provided by the gear system manufacturer.

The arrangement of the low and high limit stop screws on the rear dérailleur may differ. It is essential that you read the instructions provided by the gear system manufacturer.

#### **M** WARNING

**Incorrectly adjusted gear system.** Problems with changing gear can distract you from what is happening on the road and from possible dangers. The result can be a crash or an accident.

Check the adjustment of the gear system on a test ride away from traffic.

#### **INFORMATION**

You need technical knowledge to be able to adjust the rear dérailleur. Incorrect adjustments can cause mechanical damage. Read the instructions provided by the gear system manufacturer. If you have questions, contact your ROTWILD authorised dealer.



#### **INFORMATION**

Put the bike in a suitable stand when making the adjustments. This allows the rear wheel to turn freely and enables you to shift through all the gears.

## **Drive battery**

The drive battery is in the down tube of the eBike. It has an integrated electronic protection system that is designed for use with the charger supplied with the eBike.

## **M** WARNING

The drive battery and the charger must be kept out of the reach of children.

## **⚠** CAUTION

The drive battery in the down tube is only protected against splashes of water. You must never clean your eBike with a pressure washer, a hose or compressed air.

#### **↑** CAUTION

You must not immerse your eBike in water. This can cause a short circuit, malfunction, fire or explosion. If you think that there may be water in the drive battery, you must not use the eBike.

## **⚠** CAUTION

Do not put paper clips, screws, coins, keys or other small objects in the battery charging socket. They can cause a short circuit in the drive battery. The battery could get hot, catch fire and explode.

## **M** WARNING

If the drive battery is not used correctly, fluid could leak out of it. If you come into contact with the fluid, rinse it off with water. If you get the fluid in your eye, visit a doctor. The fluid can cause irritation and burns. If the battery emits vapour, ventilate the area well. Visit a doctor if the vapour causes problems. The vapour can irritate your airways.

#### **M** WARNING

If a crash or an accident causes external damage to the down tube, you must not use the eBike. If the eBike has survived an impact without external damage, the drive battery may still be damaged internally. In

this case you must not use the eBike for at least 24 hours and you must monitor it.

The electrical connections on the drive battery must only be cleaned with a dry cloth or a soft brush.

## INFORMATION

You must follow the legal regulations on handling, transporting and disposing of drive batteries.

#### **INFORMATION**

**Faulty batteries are classed as hazardous materials.** They must not come into contact with water and must be stored in a dry place.



#### **INFORMATION**

The lithium ion drive battery in your eBike is classed as a hazardous material because of the risk of fire if there is a short circuit. It must be declared to be a hazardous material.

#### **INFORMATION**

A flashing LED on the charger means that a fault has been identified. The charger and the drive battery must not be used. You must take them to your Porsche Centre or ROTWILD authorised dealer.

Make sure that you read the instructions for the charger.

Figure 26: Overview of the indicator lights.



## **⚠ WARNING**

# Do not try to open or repair the drive battery or the charger.

There is a risk of electric shock and explosion.

## Charging the drive battery

#### WARNING

The eRike must not be used with the drive battery removed.

The drive battery is installed in the frame and can be replaced if necessary. The drive battery can be removed for external charging. When the drive battery is fitted to the eBike, you insert the plug on the charger cable into the drive battery charging socket on the underside of the top tube. Close the cover on the charging socket when the charging process is finished. If the drive battery has been removed, the accompanying adapter must be fitted onto the plug on the charger cable and the adapter must then be plugged into the charging socket on the drive battery.

#### **INFORMATION**

If you are charging the drive battery when it has been removed from the eBike, you must do this on a level surface in an enclosed room.

Figure 27: Charger cable in the correct po- Figure 28: Charging socket sition



The charging process starts automatically. The charge status display flashes to indicate that the battery is being charged. The LED on the charger lights up to show that the charging process is under way.

When the LED on the charger goes out, the battery is fully charged.

If the charging process differs from the description above, the charger and the drive battery must not be used. You must take them to your PORSCHE Centre or your ROTWILD authorised dealer.



#### **INFORMATION**

The drive battery must be charged every eight weeks to prevent damage being caused to the electronics.

## Removing the drive battery

Put the key in the lock cylinder on the drive battery holder at the top end of the down tube on the left-hand side of the frame and turn it clockwise. Use your hand to stop the drive battery from falling out.

Figure 29: Operating the removal mechanism



The drive battery is released from the lock mechanism in the down tube. A two-part locking plate holds the drive battery in position and prevents it from falling out. Press the two-part locking plate and remove the drive battery from the eBike.

Figure 30: Releasing the drive battery.



Figure 31: Removing the drive battery



#### **INFORMATION**

Take the weight of the drive battery into account when you are removing it from the

down tube as you will have to support this weight when the battery is released.

## Installing the drive battery

Follow these instructions to install the drive battery:

First put the bottom of the drive battery into the holder at the lower end of the down tube.

When you have inserted the drive battery into the lower part of the holder in the down tube, you can push it into the down tube. The battery must click audibly into position in the battery lock mechanism in the top part of the down tube to ensure that it will not fall out.

#### **INFORMATION**

Always use one hand to stop the drive battery from falling out during the installation procedure.

#### **INFORMATION**

Check that the drive battery has clicked into the battery lock mechanism. After installing the drive battery pull gently on it.

Figure 32: Installing the drive battery



Finally, secure the drive battery in the down tube. To do this, put the key in the lock cylinder on the drive battery holder at the top end of the down tube on the left-hand side of the frame and turn it clockwise.

Figure 33: Securing the drive battery



#### **M** WARNING

If the drive battery is not properly installed, it can come loose while you are riding and fall out of the eBike. This could cause a crash or an accident.

Always check that the drive battery is secured in the down tube before riding your bike. Make sure that the battery has clicked into the battery lock mechanism and that the battery holder at the top end of the down tube on the left-hand side of the frame is locked.

#### **INFORMATION**

Check whether the drive battery is connected to the drive system by pressing the on/off button.

## **M** WARNING

Do not ride your bike if the drive battery is not properly secured in the down tube. If the drive battery is not properly secured in the down tube, it can come loose while you are riding your bike and fall out of the down tube. This can cause the down tube to break and can result in a crash. Always check that the drive battery is secured in the down tube before riding your bike.

## Charger

The PORSCHE eBike is supplied with a charger from the manufacturer Shimano. The charger is designed for a 100-240 V and 50/60 Hz power supply and must only be used with this type of power supply. The mains plug on the charger must be plugged into a household electrical socket that is earthed. After you start the charging process, the LED on the charger lights up. To avoid possible confusion, we recommend clearly labelling the charger and this instruction manual, for example with the frame number of the PORSCHE eBike.

## **⚠** CAUTION

The drive battery must only be charged using the charger supplied with the eBike. If you use another charger, you could cause a fire or an explosion.

Figure 34: Charger



## **⚠** CAUTION

Do not put paper clips, screws, coins, keys or other small objects near the charging contacts of the charging cable. They can cause a short circuit in the drive battery.

## **MARNING**

**Risk of electric shock** caused by moisture. The charger must not be used outdoors. It must be stored and used in a dry, clean area. Make sure that you read the safety information on the charger.

The charger must be stored at a temperature between 5°C and 25°C. The ideal storage temperature is 10 °C-15 °C.

The charger must only be used in a clean area that is free from dust. The temperature must be between 0°C and 40°C. The charger heats up during the charging process. The area must be clean and there must not be any flammable materials nearby.

#### **INFORMATION**

A flashing LED on the charger means that a fault has been identified.

The charger and the drive battery must not be used. You must take them to your Porsche Centre or ROTWILD authorised dealer.

## Storing the eBike

If the eBike will not be used for a period of at least four weeks, the drive battery must first be charged to between 60% and 80%.



#### INFORMATION

The charger must not be left permanently connected to the eBike.

## Handlebars, stem and headset

## Adjusting the handlebars

The Porsche Centre or ROTWILD authorised dealer will adjust the handlebars to suit the rider. This involves undoing, adjusting and tightening the relevant bolts.

#### INFORMATION

Take the maximum tightening torque of the clamping screws into consideration. (See "Recommended tightening torques").

Make sure that the handlebar and stem cannot be turned in opposite directions by clamping the front wheel between your knees and trying to turn the handlebars.

Figure 35: Handlebar and stem unit



## Headset

The headset, which is also referred to as the steering head bearing, allows the front wheel fork to rotate in the stem. The headset is subjected to considerable loads when the bike is in use, which means that it can become loose.

#### **M** WARNING

**A loose headset** can increase the stress on the bearing and the front wheel fork. As a result, these components can break. Check the headset play regularly.

Figure 36: Headset play



# (i)

#### **INFORMATION**

Adjusting the headset is a job for a specialist. Ask your ROTWILD authorised dealer to adjust the headset.

#### Stem

## **M** WARNING

#### Loose stem.

A loose stem can cause a crash. Check that the stem is held securely in position by the shaft clamp and the handlebar clamp.

Figure 37: Checking the stem





## INFORMATION

Always use a torque wrench to tighten the bolts (see "Recommended tightening torques").

## Adjusting the saddle

From an ergonomic perspective, the seat height must be adjusted so that your heel rests on the pedal at its lowest point with your leg straight. When you sit on the POR-SCHE eBike, your leg should be slightly bent. To get the best results, both your feet should be on the pedals. You will need another person to help you.

Figure 38: Identifying the correct saddle height.



Figure 39: Seat post (maximum extension length).



## **WARNING**

If you ignore the minimum insertion depth, the frame and the seat post can break. This can cause a crash or an accident.



## INFORMATION

Please check the parts list for your model to see which type of seat post it is fitted with.

## Adjusting the AERO seat post

Loosen the clamping screws on the saddle clamp with a hexagonal socket wrench (size 5) to adjust the seat height. Adjust the seat to the required height and tighten the clamping screws on the saddle clamp to the specified torque (see the section "Recommended tightening torques").

Figure 40: Clamping screws/AERO seat post



## Adjusting the Dropper seat post

Loosen the bolt on the wedge with a hexagonal socket wrench (size 3) and the clamping screws on the saddle clamp with a hexagonal socket wrench (size 5) to adjust

the seat height. Adjust the seat to the required height and tighten the clamping screws on the saddle clamp and the bolt on the wedge to the specified torque (see the section "Recommended tightening torques").

Figure 41: Clamping screws/Dropper seat post



Figure 42: Wedge bolt/Dropper seat post



## Lowering the saddle

If you are riding off road, it can be helpful to lower the seat post temporarily. If your model has this option, follow these instructions.

To lower the saddle, press the thumb shifter on the left of the handlebars. Your weight will lower the saddle. To raise the seat post, press the thumb shifter again and take your weight off the saddle. The saddle will automatically rise. You will not have to pull it out. This means that both your hands can stay on the handlebars.

## **Suspension - suspension fork**

Your PORSCHE eBike is fitted with a suspension fork to make riding on different types of terrain as comfortable and safe as possible. This significantly reduces the impact on your wrist joints caused by uneven surfaces and makes your eBike noticeably easier to control on rough tracks and difficult terrain.

## Adjusting the suspension fork

The ROTWILD authorised dealer will check the factory setting of the suspension and adjust it to the rider's weight, if necessary. The spring pre-load can be adjusted to the rider's weight using an air valve on top of the left fork leg.

On the Porsche eBike Cross/Sport models, the suspension fork is correctly adjusted if it is compressed by 20% of the total suspension travel when you are sitting on the bike. The seal on the right-hand fork leg will help you to identify the suspension travel.

Figure 43: Valve for adjusting the fork pressure.



# (i)

#### INFORMATION

You will find the recommended air pressures in the instruction manual provided by the fork manufacturer. You will also find detailed information about adjusting the spring stiffness/softness.

#### **INFORMATION**

A special air pump must be used for the suspension forks and shock. A conventional air pump is not sensitive enough to adjust the pressure.

#### INFORMATION

If you ride with too much air pressure or no air pressure in the fork, this will cause damage. We recommend asking your ROTWILD authorised dealer to show you how to adjust the fork pressure.

## **Compression damping**

The compression damping of the suspension fork on your PORSCHE eBike Sport is set in the factory and cannot be changed. You can adjust the compression damping of the Porsche eBike Cross and the PERFORMANCE models to suit your riding style. You will find an explanation of how to do this in the instruction manual that is provided for the Fox suspension fork.

## **Rebound damping**

The adjustment knob for rebound damping is at the bottom of the right-hand fork leg. First of all, turn the adjustment knob anticlockwise until it reaches the stop. Then turn it clockwise in small stages/ clicks until the damping setting is set correctly.

Figure 44: Damping setting



Too little damping will cause the fork to rebound very quickly. Too much damping will cause the suspension fork to bottom out during rapid consecutive impacts, because it can no longer rebound quickly enough.

(i)

#### **INFORMATION**

You will find more information about adjusting the suspension fork in the instructions provided by the fork manufacturer.

Please note that the PORSCHE eBike Cross, PORSCHE eBike Cross PERFORMANCE, PORSCHE eBike Cross PERFORMANCE EXC and PORSCHE eBike Sport have differ-

ent fork models. You can find the correct model listed in the technical data.

## Running gear - rear triangle

## Adjusting the rear shock

The ROTWILD authorised dealer will check the factory setting of the suspension and adjust it to the rider's weight, if necessary. The spring pre-load can be adjusted to the rider's weight using an air valve on the shock

#### **INFORMATION**

The damping must be adjusted when the shock is in OPEN mode.

The air valve for adjusting the shock is under the screw cap.

On the PORSCHE eBike Cross, PORSCHE eBike Cross PERFORMANCE, PORSCHE eBike Cross PERFORMANCE EXC and PORSCHE eBike Sport models, the shock is correctly adjusted if it is compressed by 20% of the total suspension travel when you are sitting on the bike.

The rubber ring on the shock will help you to identify the suspension travel.

Figure 45: On the shock.



# (i)

## **INFORMATION**

You will find more information about adjusting the air pressure in the instruction manual provided by the shock manufacturer. You will also find detailed information about adjusting the spring stiffness/softness.

## **INFORMATION**

A special air pump must be used for the suspension forks and shock. A conventional air pump is not sensitive enough to adjust the pressure.

#### **INFORMATION**

If you ride with too much air pressure or no air pressure in the shock, this will cause damage. We recommend asking your ROT-WILD authorised dealer to show you how to adjust the shock pressure.

## **Compression damping**

You can adjust the shock compression damping using the blue lever. By turning the lever to the FIRM position you make the shock stiffer. Turning it to the OPEN position makes the shock softer. In the MEDI-UM position, the shock is neither very stiff nor very soft.

# (i)

## **INFORMATION**

You will find more information about adjusting the shock compression damping in the instruction manual provided by the shock absorber manufacturer.

Please check the parts list for your model to see which type of shock it is fitted with.

Figure 46: Damping settings



OPEN, MEDIUM, FIRM.

## Rebound damping

You can adjust the rebound damping using the red adjuster wheel on the shock.

Too little damping will cause the fork to rebound very quickly. Too much damping will

cause the suspension fork to bottom out during rapid consecutive impacts, because it can no longer rebound quickly enough. Figure 47: Adjusting the damping.



First of all, turn the red adjuster wheel anticlockwise until it reaches the stop. Then turn it clockwise in small stages/clicks until the shock damping is set correctly.

# (i)

#### INFORMATION

You will find more information about adjusting the shock rebound damping in the instruction manual provided by the shock absorber manufacturer.

# Testing the fork and shock settings

Find some suitable ground to test the suspension fork and shock settings.

## **M** WARNING

## $\textbf{Risk of crashing when riding downhill} \ with$

the FIRM function selected. Always remember to deactivate the Firm function before riding downhill or over unknown terrain, because sudden potholes or bumps could result in the running gear being subjected to severe stresses. The impacts will be transferred directly to the rider, which could lead to you losing control and crashing.

## Û

#### **INFORMATION**

The suspension element manufacturers provide detailed instruction manuals on setting up the suspension.

Read these instruction manuals carefully before you begin making adjustments.

## Wheels and tyres

## **M** WARNING

**Loose wheels.** A loose wheel can cause a crash or an accident. Before every ride, check that the wheels are not loose.

## **M** WARNING

**Sudden loss of tyre pressure.** If the tyre pressure is too high, the tyre can burst or come off the rim. In this case, there is a risk of crashing. Always ride with tyres at the correct tyre pressure.

#### **M** WARNING

#### Worn tyres increase the risk of a crash!

Tyres with worn tread have less grip. You should ask your ROTWILD authorised dealer to check the tread on your tyres regularly. When you first use the bike, the spokes and nipples can settle. Check that your wheels run true. If they do not, have them checked and, if necessary, centred by your ROTWILD authorised dealer.

## **⚠** CAUTION

**Risk of injury!** If you do not have the necessary technical knowledge or do not carry out the maintenance correctly, you could be injured.

- Wear protective gloves.
- Keep your fingers away from moving parts.
- Make sure that your fingers do not get trapped.

## Checks before every ride

Check the bolts before every ride to make sure that the wheel is securely fixed in the fork. This is particularly important if you leave your eBike parked in a public place. Check that the bolts on the through axle are tightened to the specified torque (see "Recommended tightening torques").

#### **Quick test**

Lift your eBike up so that the front and rear wheels are off the ground. Hit the wheel hard with a downward motion a few times. The wheel should not become loose or fall out. There should also be no play between the wheel and the fork. This test does not guarantee that the bolts on the through axle are tightened to the specified torque. If you are not certain whether the bolts on the through axle are tightened to the specified torque, contact your ROTWILD authorised dealer.

#### **↑ WARNING**

If too much pre-load force is applied, this will damage the bolts and they will no longer function correctly. If not enough pre-load is used, the force will be applied incorrectly. This can cause the fork or the frame to break.

#### Front wheel

The ROTWILD authorised dealer should demonstrate the function of the front through axle to the rider and the operator. Figure 48: Fitting the axle bolt on the front wheel.



The front wheels of the PORSCHE eBike have bolted axles. When fitting the front hub, make sure that it is securely positioned in the dropout and that the brake disc is correctly centred in the brake calliper.

Figure 49: Fitting the Sport front wheel axle system



Tools are needed to remove the front wheel of the PORSCHE eBike Sport, in this case a Torx socket (size T25). Before you fit the axle, make sure that the thread is clean and undamaged. Push the lightly greased axle in from the right-hand side through the dropout and the hub until it reaches the stop.

From the left-hand side, screw the safety cover into the through axle and tighten it to a torque of 3 Nm. Fit the two clamping screws and tighten them to a torque of 10 Nm. Insert the breakdown tool into the right-hand side of the through axle and push the end of the tool back into the recess intended for it.

Figure 50: Fitting the safety cover



Figure 51: Fitting the clamping screws



Figure 52: Inserting the breakdown tool



No tools are needed to remove the front wheel of the PORSCHE eBike Cross. Open the quick release lever on the axle and push the lightly greased axle through the hub until the thread engages with the dropout. Tighten the axle and apply the tension by turning the clamping lever upwards through 90°.

Figure 53: Fitting the Cross front wheel axle system



#### **INFORMATION**

Before you fit the axle, make sure that the thread is clean and undamaged.



## INFORMATION

You will find more detailed information about fitting the front axle in the instruction manual provided by the fork manufacturer.

#### **↑ WARNING**

If the axle on the front or rear wheel is not fitted correctly, the wheel may become jammed in the suspension fork or rear triangle. This can cause a crash or an accident.



#### **INFORMATION**

If the axle cannot be fitted following the instructions above, it must be checked by the ROTWII D authorised dealer.

## Rear wheel

Tools are needed to remove the rear wheel, in this case an Allen key (size 5). Before you

fit the axle, make sure that the thread is clean and undamaged. You must also check that the left side of the dropout, which the head of the through axle fits into, is free of dirt.

Push the lightly greased axle through the hub until the thread engages with the dropout. Make sure that the thread insert is fitted correctly in the right-hand dropout.

Tighten the axle firmly with a tightening torque of 12 Nm.

#### **INFORMATION**

Before you fit the axle, make sure that the thread is clean and undamaged.

## **M** WARNING

If the axle on the front or rear wheel is not fitted correctly, the wheel may become jammed in the suspension fork or rear triangle. This can cause a crash or an accident.



#### **INFORMATION**

If the axle cannot be fitted following the instructions above, it must be checked by the ROTWILD authorised dealer.

Figure 54: Fitting the rear wheel axle.



## **Tyres**

If your tyres have cracks, some other sort of damage or too little tread, have the tyres replaced by your ROTWILD authorised dealer.

## **M** WARNING

## Risk of accidents and injury.

If the air pressure is too high or too low or if the tread is worn, the tyres will lose their grip. Damaged tyres can burst while you are riding.

## Checking the tyres

- Use an air pump with a pressure gauge to pump up the tyres
- to the recommended pressure.
- If the air pressure is too high or too low, you must not ride your eBike.
- Never ride with tyres that have too little tread.
- Never ride with tyres that have cracks or other damage caused by foreign bodies, for example.

## Checking the spokes

The spokes may come loose as a result of the bike being ridden. This does not constitute grounds for a warranty claim.

1stPluck the spokes with your finger and check that they all make the same noise.
2ndIf some of the spokes make different noises or if you find spokes that are loose, contact your ROTWILD authorised dealer immediately.

## Checking that the rims run true

Lift the eBike slightly off the ground at the front or the back and spin the front or rear wheel. Make sure that the front or rear wheel runs true.

If the front or rear wheel does not run true, have it repaired or replaced immediately by a ROTWILD authorised dealer.

## **⚠** CAUTION

#### Risk of injury!

If you do not have the necessary technical knowledge or do not carry out the work correctly, you could be injured.

- Wear protective gloves.
- Keep your fingers away from moving parts.
- Make sure that your fingers do not get trapped.

#### **INFORMATION**

If the wheels are removed, there is a risk of damage being caused to the brake system.

Do not operate the brake lever. Fit the transport guard for the disc brake on the calliper.

## **Accessories**



## **INFORMATION**

Before you ride on the roads, find out about any special requirements in your country.

## Fitting the stand

Your PORSCHE eBike is supplied with a stand that you can fit by following these instructions.

Figure 55: Side stand



Firstly, remove the cover from the stand mount on the left-hand chainstay.

Figure 56: Stand cover



To fit the stand, position it on the inside of the chainstay in the slot intended for the purpose.

Fasten the stand in place from the outside with the two M6x16 bolts supplied. Please note that the tightening torque is 4 Nm.

Figure 57: Fitting the stand



## Δ

#### **CAUTION**

If the side stand is not correctly tightened, the PORSCHE eBike can fall over while it is on the stand.

You can change the lean angle of the stand when it is folded out by turning the lower plastic part of the stand clockwise or anticlockwise

## Fitting the lights

Your PORSCHE eBike is supplied with a front and rear light.

The front light is fitted on the handlebar to the right of the stem.

Figure 58: Front light



The rear light is fitted at the bottom of the seat post.

Figure 59: Rear light



Both lights are supplied with suitable bolts. These must be tightened to a torque of 4 Nm.

# (i)

## **INFORMATION**

Depending on the model, the lights use AA or AAA batteries. The batteries are not supplied.

## Fitting the reflectors

Your PORSCHE eBike is supplied with a reflector kit that you can fit by following these instructions.

#### Side reflectors on the wheel

Put the rectangular yellow reflectors on the inside of two spokes and press the orange clips onto the reflectors from the outside so that the reflectors are fastened to the spokes.

Figure 60: Fitting the side reflectors

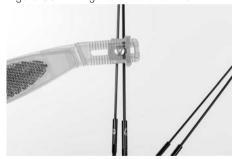


Figure 61: Side reflectors



## Fitting the front reflector

The front light is fitted on the handlebar to the left of the stem.

Figure 62: Fitting the front reflector



## Fitting the rear reflector

The rear reflector is fitted under the saddle. Figure 63: Rear reflector



## Transporting the PORSCHE eBike

## Transporting the eBike by car

When you buy a bike rack for your car, make sure that it complies with the safety standards in your country, for example the GS mark

In Germany bike racks must be approved in accordance with section 22 of the road traffic regulations.

Read the instruction manual that come with your bike rack and do not exceed the maximum permitted load or speed.



#### **INFORMATION**

When transporting the PORSCHE eBike, find out about the specific labelling requirements in your country.

If you are sending your PORSCHE eBike by courier, we recommend that you ask your ROTWILD authorised dealer to partially disassemble and pack the bike for you.



#### **INFORMATION**

We recommend transporting PORSCHE eBikes inside the vehicle.

## **MARNING**

Transporting an unsecured or incorrectly secured eBike. An unsecured or incorrectly secured eBike can become loose while being transported and cause a serious accident. Check the eBike before every journey and at regular intervals during longer journeys to make sure that it is correctly and firmly secured.

## **M** WARNING

**Air in the brake system.** If an eBike with hydraulic disc brakes is transported upside down, air can get into the brake system and the brakes may fail.

#### **INFORMATION**

Racks where the bike is transported standing on its handlebars and saddle must not be used, because this can expose the components to excessive stresses.

#### **INFORMATION**

When transporting the eBike on a bike rack, you must make sure that the down tube is not clamped in place, because this can cause damage to the drive battery inside the tube.

## **⚠** CAUTION

Risk of damage to the vehicle as a result of a lack of awareness of the total vehicle height when there are bikes on the roof rack.

Measure the total height of the vehicle and note it down inside the vehicle where it can clearly be seen.

Remember how tall the vehicle is when driving into multi-storey car parks, garages and underground car parks, when driving under underpasses and bridges etc.

#### **INFORMATION**

Risk of damage to the eBike (brakes, rear triangle and front wheel fork) when transporting it with the wheels removed. Fit the transport guards for the disc brake. Do not operate the brake lever. Fit the spacers for the rear triangle and front wheel fork.

Figure 64: Transport guard for the disc brakes



## Transporting the eBike by air

Transporting eBikes by air is not permitted. Please find out more from the airline.

## (i) INFORMATION

The lithium ion drive battery in your POR-SCHE eBike is classed as a hazardous material because of the risk of fire if there is a short circuit. It must be declared to be a hazardous material.

## (i) INFORMATION

You must follow the legal regulations on transporting eBikes.

# **Troubleshooting**

If you cannot resolve the problem by following the instructions below, contact your ROTWILD authorised dealer.

Problem	Cause	Solution
W103 (W013) - Torque sensor not successfully ini- tialised	There may be less pedalling support than normal.	Take your foot off the pedal and switch the system on and off again using the on/off switch on the battery.
W101 (W011) - Speed of travel not identified	The top speed for pedalling support may be lower than normal.	Check that the speed sensor is fitted correctly.
Battery will not charge	Charging socket and connector dirty	Clean and dry the charging socket and connector
Insufficient range	Drive train not operating in the optimum cadence range Tyre pressure unsatisfactory Chain drive efficiency unsatisfactory	Ideal efficiency between 70 and 90 rpm Check tyre pressure and adjust to recommended setting Please refer to the section Drive system / chain
EXXX - Any type of system fault	No pedalling support when riding	Restart the electrical system. If the situation does not improve, connect the system to E-TUBE and follow the instructions. If the fault continues to occur, contact your dealer.



## **INFORMATION**

For more detailed information about the individual error codes, please refer to the drive system manufacturer's original instruction manual.

You can find all the documents for Shimano components at

https://bike.shimano.com/de-DE/information.html

# Warranty, wear and brake pads

# Wear parts excluded from the warranty

Wear does not constitute a manufacturing defect. Worn components or adjustments that have changed as a result of wear are not covered by the warranty. This includes:

- Brake pad and brake disc wear
- Tyre wear
- Rim wear
- Adjustment of the brake cable
- Adjustment of the dérailleur cable
- Adjustment of the spokes and noises made by the eBike

#### Normal wear and tear

Some components of your PORSCHE eBike are subject to normal wear and tear.

This sort of wear and tear is not covered by the warranty or by the legal liability for defects. The extent of the wear depends on the care, maintenance and type of use of the eBike (distance travelled, use in the rain, dirt, salt etc.).

eBikes that are often left outside will be subject to greater wear and tear because of the effects of the weather. This applies particularly near the sea where the air is salty. Wear parts need regular maintenance and care. However, depending on the level of use and the conditions, they will sooner or later reach the end of their life span.

<sup>\*</sup>The noise your eBike makes may change over time and under different loads.

When these parts reach their wear limit, they must be replaced. This applies in particular to the following parts:

Drive chain/belt/battery, sprocket cassette, chain rings and belt pulleys, electric motor, handlebar grips, rear dérailleur, dérailleur cables, handlebars and stem, seat post and saddle, brake pads and discs, wheels including tyres and inner tubes, brake cables.

## Brake pads

The pads used in disc brakes systems will wear with use. If the bike is ridden fast or in hilly terrain, the pads may need to be changed frequently.

Check the condition of the pads regularly and, if necessary, have them replaced by your ROTWILD authorised dealer.

#### **M** WARNING

**Riding a bike with worn parts is dangerous** and can lead to accidents. In addition, the use of a worn part can cause damage to other components of the bike.



#### INFORMATION

Have your bike serviced and maintained at the intervals specified in the instruction manuals provided by the component manufacturers.

## Warranty

You can find more detailed information about the warranty terms and conditions in the instructions for the individual components and on the ROTWILD website: https://www.rotwild.com/garantie-porsche

## Cleaning, packaging and disposal

When your eBike is handed over to you, it is ready to use. Every bike requires care and maintenance.

This is essential in order to make sure that your PORSCHE eBike functions correctly and is safe to ride.

#### INFORMATION

After the first 5 to 15 hours or 100 to 300 kilometres your eBike must have its first service. During this time the cables can stretch and gear changes may become slightly less accurate.

#### **INFORMATION**

After the running-in period you should have your eBike checked at regular intervals by a ROTWILD authorised dealer.

The length of the maintenance intervals will vary depending on the type of area you ride in and the weather conditions

## **⚠ WARNING**

**Unprofessional servicing and repairs.** Servicing and repairs should be carried out by experts. Specialist knowledge and special tools are needed.

Maintenance work and adjustments that are carried out incorrectly can lead to the failure of components of your PORSCHE eBike.

Only take on tasks yourself if you have the necessary knowledge and tools, for example a torque wrench.

# <u>(i)</u>

#### **INFORMATION**

You should have your PORSCHE eBike cleaned thoroughly twice a year, preferably as part of regular servicing, by your ROT-WILD authorised dealer.

## Cleaning

It is important to protect your eBike against environmental influences such as dirt, sweat, road salt in winter and salty air. Clean your PORSCHE eBike with a damp cloth.

You can add a little detergent to the water. Afterwards protect your PORSCHE eBike with polish.

## **M** WARNING

Always check that there are no cleaning products or lubricants on the friction surfaces of the brake system.

#### **↑** CAUTION

The electric drive system is only protected against splashes of water. You must never clean your eBike with a pressure washer, a hose or compressed air. This can cause a short circuit, malfunction, fire or explosion.

## **Recycling and disposal**

Every Porsche Centre and every ROTWILD authorised dealer will accept bikes, unopened and undamaged drive batteries and chargers and will dispose of them in accordance with regulations.

The drive battery and the charger will not be dismantled before disposal.

## **⚠** CAUTION

**Never try to open the drive battery.** Any residual voltage can cause fire and injuries. Sharp-edged pieces of the battery and internal components can cause cuts and short circuits.

Separate disposal of electrical and electronic equipment



- Separate disposal of batteries



The PORSCHE eBike, the drive battery and the charger are recyclable and must not be disposed of with household waste.

You can dispose of recyclable materials at your local recycling centre.

Before disposal, you must remove the batteries from electrical devices and take them to your local recycling centre or your Porsche Centre or ROTWILD authorised dealer.

#### **INFORMATION**

For more information about disposal and recycling, contact your Porsche Centre or

ROTWILD authorised dealer, your local recycling centre or your local authority. You must follow the legal regulations on disposing of waste products.

## **Packaging material**

The packaging material (mainly cardboard and plastic film) must be sorted and disposed of in accordance with regulations.



## **INFORMATION**

To prevent any problems occurring, individual components of a PORSCHE eBike that is no longer in use must be stored in a dry, frost-free location where they are not exposed to direct sunlight.



#### **INFORMATION**

The following waste symbols apply.



## Service record

#### 1st service

After 100-300 km or 6 months from the | After 1000 km or 12 months from the pur purchase date at the latest

Parts replaced or repaired

Servicing measures have been carried out on the PORSCHE eBike in accordance with the service interval.

> Stamp and signature of the dealer

#### 2nd service

chase date at the latest

Parts replaced or repaired

Servicing measures have been carried out on the PORSCHF eBike in accordance with the service interval.

> Stamp and signature of the dealer

## 3rd service

After 2,000 km or 18 months from the purchase date at the latest

Parts replaced or repaired

Servicing measures have been carried out on the PORSCHF eBike in accordance with the service interval.

> Stamp and signature of the dealer

#### 4th service

After 3,000 km or 24 months from the purchase date at the latest

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Servicing measures have been carried out on the PORSCHE eBike in accordance with the service interval.

Stamp and signature of the dealer

## 5th service

After 4,000 km or 30 months from the purchase date at the latest

Parte confered or consided

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Servicing measures have been carried out on the PORSCHE eBike in accordance with the service interval.

Stamp and signature of the dealer

## 6th service

After 5,500 km or 36 months from the purchase date at the latest

Parts	replaced c	or repaired

Servicing measures have been carried out on the PORSCHE eBike in accordance with the service interval.

Stamp and signature of the dealer

## 7th service

After 7,000 km or 42 months from the pur- After 8,500 km or 48 months from the purchase date at the latest

Parts replaced or repaired

Servicing measures have been carried out on the PORSCHE eBike in accordance with the service interval.

> Stamp and signature of the dealer

#### 8th service

chase date at the latest

Parts replaced or repaired

Servicing measures have been carried out on the PORSCHE eBike in accordance with the service interval.

> Stamp and signature of the dealer

## 9th service

After 10.000 km or 54 months from the purchase date at the latest

Parts replaced or repaired

Servicing measures have been carried out on the PORSCHF eBike in accordance with the service interval.

> Stamp and signature of the dealer

## List of tables

## Recommended tightening torques

The tightening torque depends on the material and diameter of the bolt and on the material and design of the component.

#### **INFORMATION**

If a torque figure is printed or embossed on the component, use this torque figure.



## **INFORMATION**

If you have no experience of using a torque wrench, have any loose bolts tightened by your ROTWILD authorised dealer.

# Torque table

Description or bolt size	Tightening torque (Nm)
Clamping screws (front axle)	10 Nm
Pedals	30 Nm
Bolt (brake and dérailleur systems)	7-8 Nm
Bolt (brake pads)	3-4 Nm
Bolt (shock/top tube) Bolt (shock/linkage)	10 Nm 10 Nm
Bolt (rear axle)	12 Nm
Bolt (stem)	according to your judge- ment (no play in head- set)
Bolt (saddle)	9-10 Nm
Clamping screws (seat post) Wedge bolt (seat post)	9-10 Nm 3-4 Nm

Description or bolt size	Tightening torque (Nm)
Bolts (Horst-link)	8 Nm
Bolts (M5) (handlebar clamp - fastening handlebar to stem)	5-6 Nm
Bolts (steering tube clamp S140) Bolts (PORSCHE Custom Stem steering tube clamp)	5 Nm 9-10 Nm
Bolts (linkage)	8 Nm
Safety cover (front axle)	3 Nm
Pedal crank	12-14 Nm

## Tyre pressure table

Model	Recommended tyre pressure
PORSCHE eBike Cross PORSCHE eBike Cross PERFORMANCE PORSCHE eBike Cross PERFORMANCE EXC PORSCHE eBike Sport	2-2.5 bar / 29-36 psi

## **EU Declaration of Conformity**

The manufacturer:

**ADP ENGINEERING GMBH** 

Am Bauhof 5 64807 Dieburg

Germany

The following standards have been applied:

DIN EN 15194:2018 Cycles. Electrically power assisted cycles.

EPAC bicycles

DIN ISO 4210:2015 Mountain bicycles

DIN ISO 4210:2015 City and trekking bicycles

hereby declares that the PORSCHE electrically assisted bicycles

Product names:

PORSCHE eBike Sport
PORSCHE eBike Cross
PORSCHE eBike Cross PERFORMANCE
PORSCHE eBike Cross PERFORMANCE EXC

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is authorised to compile the technical documents.

Year of manufacture: 2023

comply with all the relevant provisions of the Machinery Directive 2006/42/EC.

The electrically assisted bicycles also comply with all the relevant essential requirements of the Electromagnetic Compatibility Directive 2014/30/EU and the RoHS Directive 2011/65/EU.

Dieburg, 01/05/2023

Misirano

Peter Schlitt - Director

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This instruction manual has been written. and translated with the greatest of care. However, many of the functions and components described here may change as a result of ongoing development work. Changes of this kind can be made without advance notice.

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