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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 Centre 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 to cyclists and bikes on the roads in your country.

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

Česky
Español
Nederlands
Polski
English
Italiano
Français
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.

⚠️ **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

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️</td>
<td>General warning. Refer to the owner’s manual.</td>
</tr>
<tr>
<td>⚠️</td>
<td>Separate disposal of electrical and electronical equipment and batteries.</td>
</tr>
<tr>
<td>⚠️</td>
<td>Do not burn.</td>
</tr>
<tr>
<td>⚠️</td>
<td>(Do not burn). Do not open battery. Device in protection class II. Read instructions.</td>
</tr>
<tr>
<td>⚠️</td>
<td>Keep at temperatures below 50°C and out of direct sunlight.</td>
</tr>
<tr>
<td>⚠️</td>
<td>Recyclable material.</td>
</tr>
<tr>
<td>⚠️</td>
<td>Device in protection class II.</td>
</tr>
<tr>
<td>⚠️</td>
<td>Fuse (device fuse).</td>
</tr>
<tr>
<td>⚠️</td>
<td>Only for indoor use.</td>
</tr>
</tbody>
</table>
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 PORSCHE 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/porscgebikes
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:
ADP ENGINEERING GMBH
Am Bauhof 5
64807 Dieburg, Germany
Tel.: +49 6071 921 55 0
Fax: +49 6071 921 55 25
E-mail: info@rotwild.de
Website: www.rotwild.com

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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.

ⓘ 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.
The eBike must be switched off as soon as the rider is no longer able to apply the brakes.
Figure 4: Detailed information about the PORSCHE eBike

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”).

⚠️ 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, lightweight 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.

⚠ 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.

⚠ WARNING

Using damaged carbon components.
If 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.
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 PORSCHE eBike, including the rider and any luggage, is 120 kg and is shown on the type plate of the eBike.

⚠️ WARNING

Using child seats and child trailers. PORSCHE 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.

⚠️ 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.

⚠️ 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.

**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 components, 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 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 bicycle 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.

Using the eBike

⚠️ 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.
⚠ WARNING

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.

Support switch (X/Y)
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)

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).

You use the support switch (X/Y) to move the cursor in the settings menu.

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

<table>
<thead>
<tr>
<th>MODEL:</th>
<th>PORSCH eBike Cross</th>
<th>RPORCT23</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUSPENSION ELEMENT</td>
<td>FOX FLOAT 3-POS DPS EVOL PERFORMANCE 200x50</td>
<td></td>
</tr>
<tr>
<td>HEADSET</td>
<td>ACROS RW750 1.5 HEADSET W/ BLOCK LOCK</td>
<td></td>
</tr>
<tr>
<td>FORK</td>
<td>FOX FLOAT 34 PERFORMANCE</td>
<td></td>
</tr>
<tr>
<td>HANDLEBARS</td>
<td>B280 AL7075 (35-740)</td>
<td></td>
</tr>
<tr>
<td>STEM</td>
<td>S140 AL6061 / ML READY (60)</td>
<td></td>
</tr>
<tr>
<td>DISPLAY</td>
<td>SHIMANO SC-EM800</td>
<td></td>
</tr>
<tr>
<td>SEAT POST</td>
<td>CRANKBROTHERS HIGHLINE</td>
<td></td>
</tr>
<tr>
<td>SADDLE</td>
<td>ERGON SM SPORT</td>
<td></td>
</tr>
<tr>
<td>HANDLEBAR GRIPS</td>
<td>ERGON GA20</td>
<td></td>
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<tr>
<td>DRIVE TRAIN</td>
<td>SHIMANO DU-EP801</td>
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<tr>
<td>BATTERY</td>
<td>SHIMANO BT-E8035-L  504WH (E8035 504WH [S])</td>
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<tr>
<td>CRANK</td>
<td>SHIMANO FC-E8150 36T. 160(S)/165(M/L)</td>
<td></td>
</tr>
<tr>
<td>CHAIN GUIDE</td>
<td>E13 TRS</td>
<td></td>
</tr>
<tr>
<td>SHIFTING LEVER</td>
<td>SHIMANO XT I-SPEC EV</td>
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<tr>
<td>REAR DERAILEUR</td>
<td>SHIMANO XT 8100 SGS STANDARD PLUS</td>
<td></td>
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<tr>
<td>CHAIN</td>
<td>SHIMANO CN-HG7100 12-SPEED</td>
<td></td>
</tr>
<tr>
<td>CASSETTE</td>
<td>SHIMANO CS 6100 10-61T. 12-SPEED</td>
<td></td>
</tr>
<tr>
<td>BRAKES</td>
<td>MAGURA MT TRAIL HC1 / SHIFTMIX</td>
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<tr>
<td>DISC ROTOR</td>
<td>MAGURA MDR-P SENSOR 203/203</td>
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<tr>
<td>WHEELS</td>
<td>CRANKBROTHERS SYNTHESE 110-15 BOOST/148-12TAS 6-BOLT</td>
<td></td>
</tr>
<tr>
<td>TYRES</td>
<td>CONTINENTAL CROSS KING [27.5x2.30 (S)/29x2.30(M/L)]</td>
<td></td>
</tr>
<tr>
<td>PEDALS</td>
<td>CRANKBROTHERS STAMP 2</td>
<td></td>
</tr>
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<td>COLOUR</td>
<td>SILVER METALLIC/BLACK</td>
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<td>TOTAL PERMITTED WEIGHT</td>
<td>ASTM3 - 120 KG</td>
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<tr>
<td>MODEL:</td>
<td>PORSCE eBike Cross Performance</td>
<td>RPORCP23</td>
</tr>
<tr>
<td>-------------------------------------------</td>
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<td>----------------</td>
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<tr>
<td>SUSPENSION ELEMENT</td>
<td>FOX FLOAT 3-POS DPS EVOL FACTORY 200x60</td>
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<td>ASTM2 - 120 kg</td>
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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").

⚠ WARNING

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.

⚠ 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 left-hand brake lever operates the rear brake and the right-hand lever operates the front brake.

Figure 13: Front and rear brake levers.

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.

⚠️ WARNING

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

⚠️ 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.

⚠️ 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.
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.

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.

**WARNING**

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.

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”).
Frame
Check the frame for damage. If the frame is cracked or deformed, contact your ROTWILD 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 17: Handlebars and stem](image)

![Figure 18: Chain on the chain ring/cassette](image)

**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
- 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.

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

⚠ 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-WILD authorised dealer.

⚠ 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.

⚠ 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.

⚠ WARNING
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.

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

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.

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.

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.

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

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.

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.

Risk of damage to brake components through overheating.

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.
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.
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.

WARNING

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.

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.

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

⚠ **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**

**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.

**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.
INFORMATION

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

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.

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.
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

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.

⚠️ 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

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.

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.
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.

⚠ 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.

⚠ 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.

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

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.

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.

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 eBike 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.

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.

**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.

Figure 33: Securing the drive battery
Check whether the drive battery is connected to the drive system by pressing the on/off button.

**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.

**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.

**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**

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.
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.

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%.

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.

⚠️ 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

INFORMATION

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

Stem

⚠️ 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 PORSCHE 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.

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

Figure 39: Seat post (maximum extension length).

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.

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.

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 different 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.

INFORMATION

If you ride with too much air pressure or no air pressure in the shock, this will cause damage. We recommend asking your ROTWILD 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 MEDIUM position, the shock is neither very stiff nor very soft.

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
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

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.

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.

WARNING
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.

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

⚠️ WARNING

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

⚠️ 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.

⚠️ 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

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 52: Inserting the breakdown tool

Figure 53: Fitting the Cross front wheel axle system
INFORMATION
Before you fit the axle, make sure that the thread is clean and undamaged.

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

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

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.

⚠ 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.

1st Pluck the spokes with your finger and check that they all make the same noise.
2nd If 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

**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 anti-clockwise.
**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.

**INFORMATION**

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

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**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
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 PORSCHEN 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.

**WARNING**

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.

**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.

**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.
**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.

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**Transporting the eBike by air**

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

**INFORMATION**

The lithium ion drive battery in your PORSCHE 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**

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.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>W103 (W013) - Torque sensor not successfully initialised</strong></td>
<td>There may be less pedalling support than normal.</td>
<td>Take your foot off the pedal and switch the system on and off again using the on/off switch on the battery.</td>
</tr>
<tr>
<td><strong>W101 (W011) - Speed of travel not identified</strong></td>
<td>The top speed for pedalling support may be lower than normal.</td>
<td>Check that the speed sensor is fitted correctly.</td>
</tr>
<tr>
<td><strong>Battery will not charge</strong></td>
<td>Charging socket and connector dirty</td>
<td>Clean and dry the charging socket and connector</td>
</tr>
</tbody>
</table>
| **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. |
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

*The noise your eBike makes may change over time and under different loads.*

### 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.
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.

⚠️ **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.

⚠️ **WARNING**

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

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

**INFORMATION**

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

**Cleaning**

It is important to protect your eBike against environmental influences such as dirt, sweat, road salt in winter and salty air.
⚠ **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

<table>
<thead>
<tr>
<th>1st service</th>
<th>2nd service</th>
<th>3rd service</th>
</tr>
</thead>
<tbody>
<tr>
<td>After 100-300 km or 6 months from the purchase date at the latest</td>
<td>After 1000 km or 12 months from the purchase date at the latest</td>
<td>After 2,000 km or 18 months from the purchase date at the latest</td>
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**Parts replaced or repaired**

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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**

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**Stamp and signature of the dealer**

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</table>
4th service

After 3,000 km or 24 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

5th service

After 4,000 km or 30 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

6th service

After 5,500 km or 36 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
<table>
<thead>
<tr>
<th>Service</th>
<th>Description</th>
</tr>
</thead>
</table>
| **7th service** | After 7,000 km or 42 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** | 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 |
| **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 PORSCHE 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.

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

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

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

### Tyre pressure table

<table>
<thead>
<tr>
<th>Model</th>
<th>Recommended tyre pressure</th>
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<tbody>
<tr>
<td>PORSCHE eBike Cross</td>
<td>2-2.5 bar / 29-36 psi</td>
</tr>
<tr>
<td>PORSCHE eBike Cross PERFORMANCE</td>
<td></td>
</tr>
<tr>
<td>PORSCHE eBike Cross PERFORMANCE EXC</td>
<td></td>
</tr>
<tr>
<td>PORSCHE eBike Sport</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description or bolt size</th>
<th>Tightening torque (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolts (Horst-link)</td>
<td>8 Nm</td>
</tr>
<tr>
<td>Bolts (M5) (handlebar clamp - fastening handlebar to stem)</td>
<td>5-6 Nm</td>
</tr>
<tr>
<td>Bolts (steering tube clamp S140)</td>
<td>5 Nm</td>
</tr>
<tr>
<td>Bolts (PORSCHE Custom Stem steering tube clamp)</td>
<td>9-10 Nm</td>
</tr>
<tr>
<td>Bolts (linkage)</td>
<td>8 Nm</td>
</tr>
<tr>
<td>Safety cover (front axle)</td>
<td>3 Nm</td>
</tr>
<tr>
<td>Pedal crank</td>
<td>12-14 Nm</td>
</tr>
</tbody>
</table>
EU Declaration of Conformity

The manufacturer:

ADP ENGINEERING GMBH
Am Bauhof 5
64807 Dieburg
Germany

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

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.

The following standards have been applied:
EPAC bicycles
DIN ISO 4210:2015 Mountain bicycles
DIN ISO 4210:2015 City and trekking bicycles

Johannes Matschos - Research and Development Engineer,
ADP ENGINEERING GMBH, Am Bauhof 5, 64807 Dieburg, Germany
is authorised to compile the technical documents.

Dieburg, 01/05/2023

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.