



SWISS
E-BIKE PIONEER
SINCE 1995

FLYER

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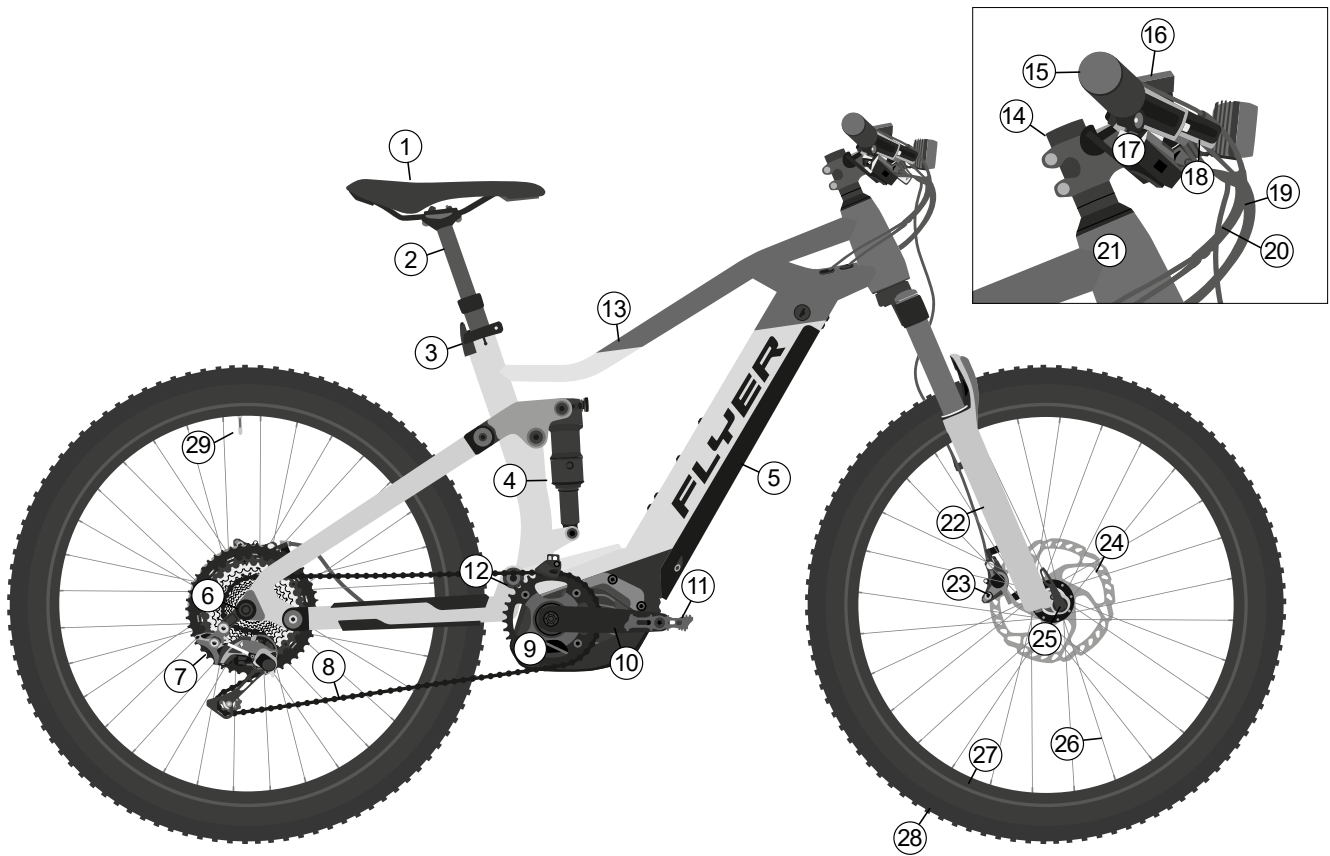
FLYER Mountain

Bosch

en Translation of the original instruction manual

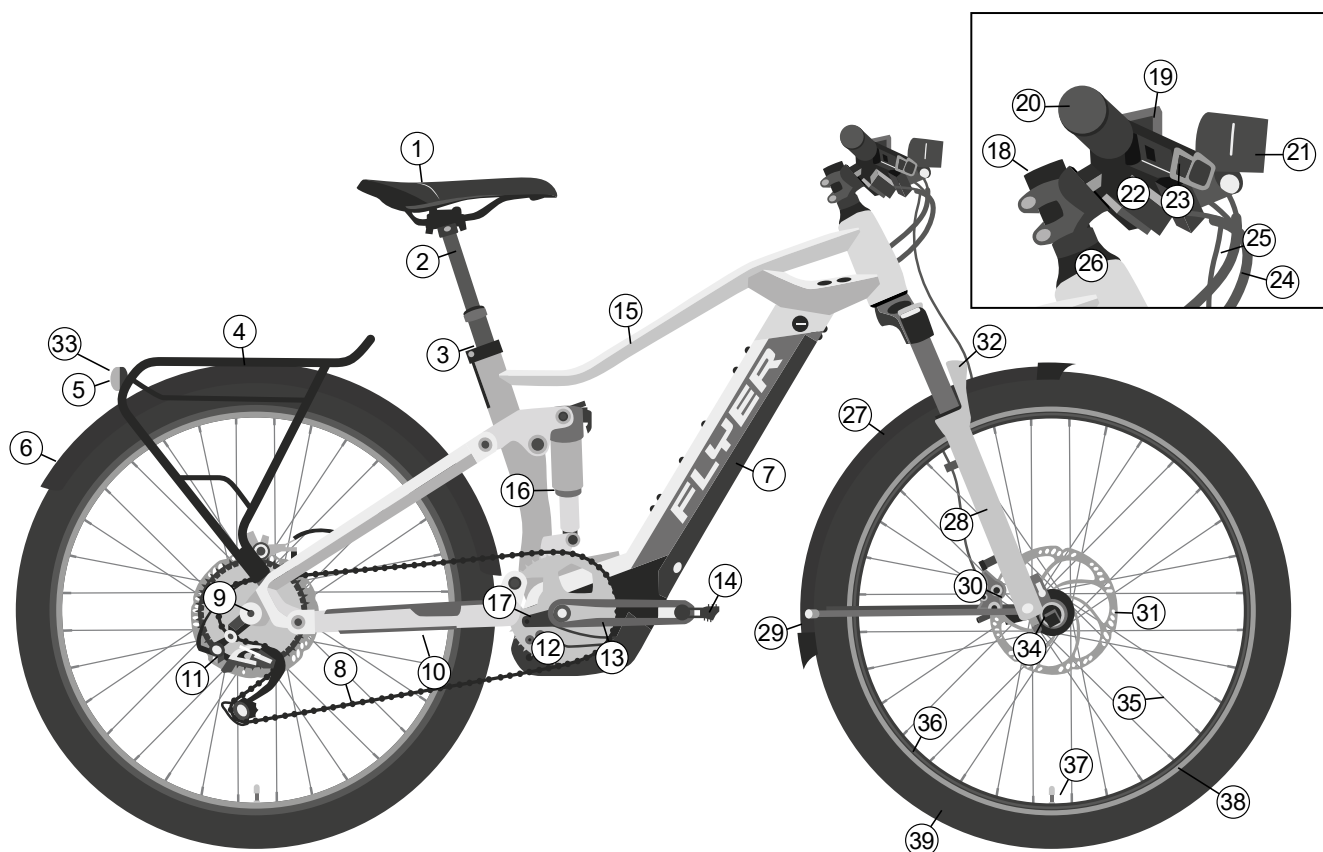
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The FLYER e-mountainbike and its components



- | | | |
|---|------------------------|------------------------|
| ① Seat | ⑩ Crank arm | ①⑥ Display |
| ② Seat post | ⑪ Pedal | ①⑦ Shifter |
| ③ Seat post clamp with quick release | ⑫ Pivot point Bearing | ①⑧ Brake lever |
| ④ Rear assembly/shock absorber suspension element | ⑬ Frame | ①⑨ Brake cable |
| ⑤ Battery | ⑭ Stem | ②① Headset |
| ⑥ Dropout | ⑮ Handlebars with grip | ②② Suspension fork |
| ⑦ Rear derailleur | | ②③ Disc brake calliper |
| ⑧ Chain | | ②④ Brake disc |
| ⑨ Electrical motor | | |
| | | Wheel |
| | | ②⑤ Front wheel hub |
| | | ②⑥ Spoke |
| | | ②⑦ Rim |
| | | ②⑧ Tyres |
| | | ②⑨ Valve |

The FLYER Crossover e-bike and its components



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- | | |
|---|----------------------------|
| ① Seat | ②① Front headlight |
| ② Seat post | ②② Shifter |
| ③ Seat post clamp with quick release | ②③ Brake lever |
| ④ Rack | ②④ Shifter cable |
| ⑤ Rear light | ②⑤ Brake cable |
| ⑥ Mudguard for the back tyre | ②⑥ Stem bearing or headset |
| ⑦ Battery | ②⑦ Front mudguard |
| ⑧ Chain | ②⑧ Suspension fork |
| ⑨ Dropout | ②⑨ Safety fixture mudguard |
| ⑩ Side stand | ③⑦ Disc brake calliper |
| ⑪ Hub gears | ③① Brake disc |
| ⑫ Electrical motor | ③② Reflector |
| ⑬ Crank arm | ③③ Rear reflector |
| ⑭ Pedal | |
| ⑮ Frame | Wheel |
| ⑯ Rear assembly/shock absorber suspension element | ③④ Front wheel hub |
| ⑰ Pivot point/ Bearing | ③⑤ Spoke |
| ⑱ Stem | ③⑥ Rim |
| ⑲ Display | ③⑦ Valve |
| ⑳ Handlebars with grip | ③⑧ Reflector stripes |
| | ③⑨ Tyres |

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IMPORTANT:

Current operating instructions are provided at:
flyer-bikes.com/manuals

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1. Foreword

Dear FLYER customer

Thank you for choosing a FLYER. Enjoy your journey of discovery on your FLYER and have a safe ride.

Thank you for your trust in our product.
Your FLYER Team

2. Definition of terms

These original operating instructions contain the most important information required to familiarise yourself with your new FLYER, to get to know its technology, to attend to safety aspects and prevent damage to persons, goods and the environment. You should therefore keep this manual in a safe place, always have it to hand and observe the pointers provided in this manual which have proven to be helpful when using this FLYER. Please provide these instructions with the FLYER when you lend your FLYER to other persons. You are strongly advised to carefully read the attached instructions manual to the electric drive system before you use your bike for the first time. The following symbols are repeatedly shown on the pages below:



DANGER: There is a risk of personal injury.



NOTE: Here you can find important information which will help you get the most out of your FLYER e-bike.



WARNING: This is an indication of possible damage to property or the environment.

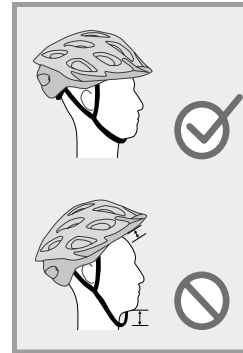


OBSERVE PRESCRIBED TORQUE: Screw connections must be tightened with a specific fastening torque. This is only possible with a special tool called a torque spanner. Have this work performed by your FLYER specialist retailer if you do not have the right tools or specialised knowledge. Parts which have been fitted with the incorrect torque may break or fall off, which can lead to serious falls. The correct fastening torque is either imprinted on the component or listed in the technical data.

The torque value must not be exceeded in any way, in particular where carbon parts are used. Use carbon paste to help reduce the torque while ensuring a secure connection. Never use conventional grease to lubricate carbon parts.

These symbols will be displayed from now on without any further explanation, however they still represent the content and hazards explained above. Carefully read all the instructions.

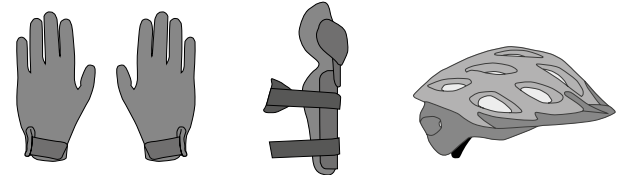
3. Safety information



It is essential that you perform the tests and inspections stipulated. Negligence is a great danger, especially in this area. Protect yourself and other road traffic participants by behaving safely and responsibly and always considering the dangers to which you are subject as a cyclist amid road traffic. Always wear a well-fitting and suitable helmet. Ask your FLYER specialist retailer how to fit your helmet correctly so that it protects you properly.



If you participate in more extreme bike sports, it is essential that you wear protectors for your own safety.



These original operating instructions do not instruct on how to assemble a FLYER from individual parts, how to repair it or how to get partially assembled FLYERS ready to operate.



The FLYER is fitted with highly complex, modern technology. It must be handled with specialised knowledge, experience and the specialised tools required. Only allow your FLYER specialist retailer to perform work on your FLYER. We are therefore only able to discuss the most important aspects in this operating manual. In addition, there are also notes and instructions from the respective manufacturers of the individual components used on the bicycle. These must also be considered. The same applies here: If anything is unclear, do not hesitate to ask your FLYER specialist retailer.

Being seen on the road is just as important as being able to see. Therefore, always wear bright clothing or clothing with reflective elements when you ride; sports clothing is the best option. Do not wear loose clothes that might be caught on objects or might get tangled in the vehicle. Tie your

trouser legs on both sides tightly to the body. Tight clothing on your lower body is also a must, you should therefore use trouser clips if necessary.

Drive with sturdy shoes. The soles of your shoes should be rigid and slip-proof. **Never ride with your hands off the handlebars.**

Look ahead while riding and familiarise yourself with the response of the brakes in a safe and traffic-free area before your first drive.

Only one person may ride on the FLYER at a time. Do not carry any loose, unattached objects with you.

Check that the quick releases are fastened and secured each time your FLYER has been left unattended – even if it is for just a short time. Regularly make sure that all screws and parts are safely tightened.

Your responsibility as the owner of the vehicle includes the actions and the safety of possible under-age users as well as the technical state of the FLYER e-bike and its adaptation to the driver. Ensure that under-age drivers have learned safe and responsible handling of the e-bike - preferably in the environment in which they will ride it.

Important preparations for riding your FLYER

It is essential to read the operating instructions to familiarise yourself with your new FLYER . Please read all of the instructions to ensure safe use. This operating manual assumes that you and all other users of this FLYER e-bike have a basic knowledge of bicycles and e-bikes. Please contact your FLYER specialist retailer if you have any questions and for important maintenance tasks. All persons using, cleaning, maintaining, repairing and disposing of the FLYER must know and understand the content of these instructions.

Not observing this information may have considerable consequences for your safety. If something is out of place, it could cause severe accidents or you falling over – which could also lead to addition costs and repair.

Along with reading the specific instructions on how to use your FLYER , you need to inform yourself on the rules and regulations that are enforced on public roads – these can change from country to country.

For more information, contact your FLYER retail store or your local police department.



Warnings and important information

- Please consider that additional support by the motor helps you drive at significantly higher speeds than you are used to with your bicycle.
- Please note that the motor of your FLYER e-bike may get hot during long ascents. Do not touch. You could suffer burns.

- The same applies to brake discs which can get very hot when braking. Avoid continuous use of the brakes while driving, even during extended or steep downhill rides.
- Never attempt to operate your FLYER with any battery other than the original battery. Your FLYER specialist retailer will advise you regarding the correct FLYER battery.
- Never remove component covers or parts. This could expose live parts. Connecting points could also be live. Maintenance work may only be performed by your FLYER specialist retailer. Inappropriate work may lead to electrical shocks and injuries.
- Take care not to damage or crush cables while maintaining, cleaning, transporting or adjusting your FLYER.
- If it is no longer possible to use the bike safely, you may no longer use your FLYER . This is the case when live parts or the battery are damaged or when you detect cracks in the frame or in components. The FLYER must be left unused and secured until it has been checked by a FLYER specialist retailer.
- If your FLYER has a carbon frame, please observe the special warnings on the use of carbon, which can be found in this manual. Pay particular attention to the requirement to carry out an inspection before each journey, to ensure that the specifications regarding torque and transport method are complied with, and to refrain from exposing carbon parts to high temperatures. Please refer to Chapter 8.2.
- You should be particularly careful if children have access to the bike. Prevent children from inserting objects into openings in the bike. They could suffer a life-threatening electric shock.
- To store your FLYER in an assembly stand, it should be attached by the seat post. High-quality aluminium frames may be damaged by the clamping force of the holder; the risk of this is even greater in the case of carbon frames. The clip on the seat tube opening must not be closed when the seat post is removed from a FLYER with a carbon frame.
- Do not adjust or tune your FLYER. This applies in particular to adjusting the top speed. Doing so may result in criminal charges or cause severe injuries or even death.

4. Safety instructions for all electrical systems

Read all the safety instructions and regulations.

Non-compliance with the safety instructions and regulations may lead to electric shock, fire and/or severe injuries.

Keep all safety instructions and regulations for future use.

The term “battery” in these operating instructions refers to all standard batteries.

Your FLYER is supplied with the corresponding operating manual for the integrated motor from the component manufacturer.

You are strongly advised to carefully read the attached instruction manual to the electric drive system before you use your bike for the first time and to make note of all the listed safety instructions.

Information concerning the bike's operation, maintenance, care and technical data can be found in the FLYER e-bike's instruction manual or on the manufacturer's website for the each of the bike's components.



1. Your FLYER has an automatic protection against overheating. In the case of overheating, this protection will switch off the motor function until the motor has reached a non-critical temperature. The remaining functions will continue to operate.
2. The system, including all lights, will automatically be switched off when the pedals are not used for 10 minutes. Therefore, always be sure to turn on the display before each ride.

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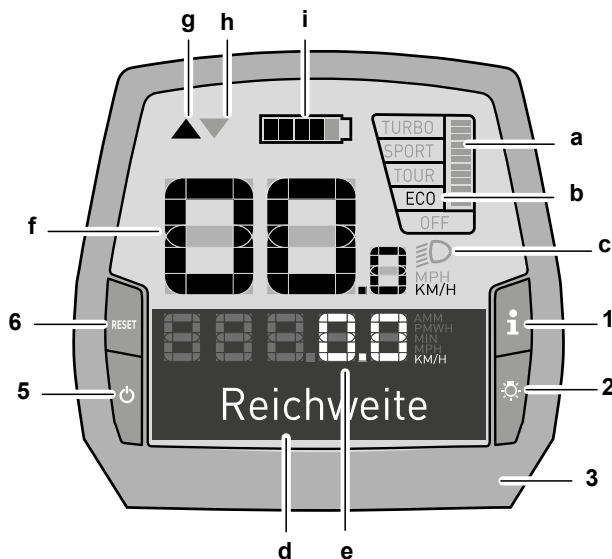


1. Remove the battery from the e-bike before you begin working on it (i.e. installation, maintenance, working on the chain, etc.). The same applies when storing the bike or transporting it with a car, train or plane. There is a risk of injury if the electrical system is unintentionally activated.
2. The electric drive system built into your FLYER e-bike is extremely powerful. Correct and safe operation requires you to have your FLYER regularly maintained by a specialist retailer. Immediately remove the battery when you notice damage to the electrical system, particularly when live parts are exposed after an accident. Always contact your FLYER specialist retailer when you require repairs, want to ask a question, have a problem or discover a defect. A lack of technical knowledge can lead to severe accidents, injuries or damage.

5. FLYER with Bosch motor

5.1 Operation the e-bike with Inutiva on-board computer

1. "i" display function button
2. Lighting button
3. On-board computer
4. On-board computer holder
5. On-off button for the on-board computer
6. "RESET" button
7. USB socket
8. USB protective cover
9. Drive unit



On-board computer display elements

- a Motor power indicator
- b Support level indicator
- c Lighting display
- d Text display
- e Values display
- f Tachometer display
- g Gear Recommendation: the higher gear
- h Gear Recommendation: the lower gear
- i Battery charge status indicator

You have the following options for **switching on** the E-bike system:

- The E-bike system is automatically switched on if the controls are on and inside their holder.
- Briefly press the controls' on/off button **5** once the controls and the battery have been inserted.
- Press the battery on/off button once the on-board computer have been inserted.

You have the following options for **switching off** the E-bike system:

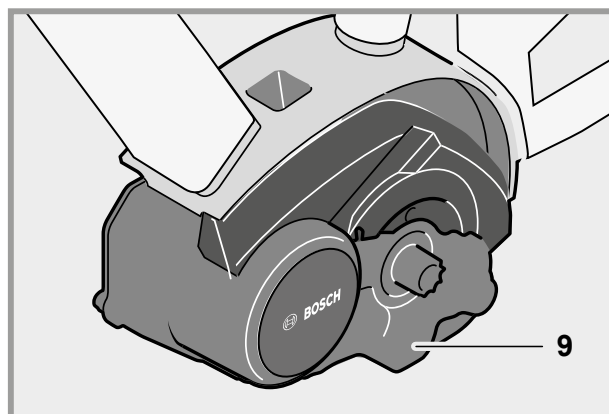
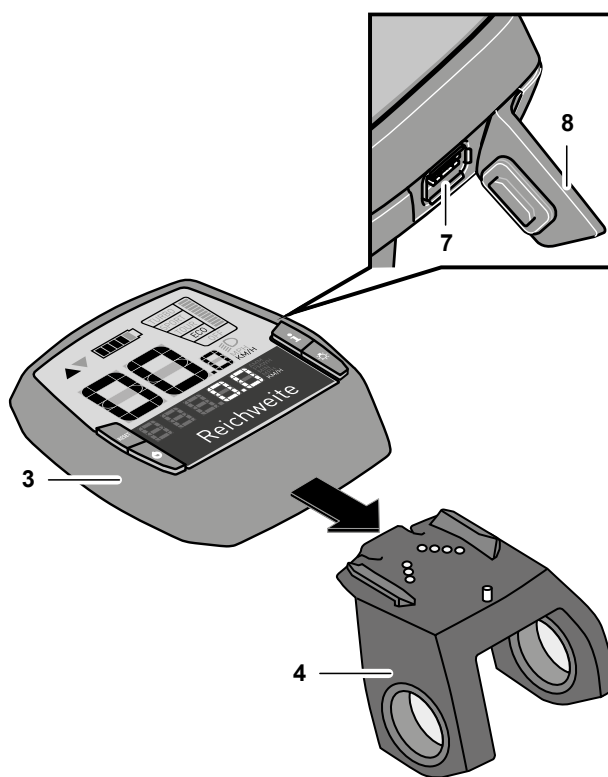
- Press the on-board computer on/off button **5**.
- Switch off the battery using its on/off switch (see operating instructions of the battery).
- Remove the controls from their holder.

Switching the on-board computer on/off

Briefly press the on/off button **5** to **switch on** the on-board computer. The controls can also be switched on when they have not yet been inserted into the holder (if the battery is sufficiently charged).


Press the on/off button **5** to **switch off** the on-board computer.


For about 10 minutes, neither move the FLYER nor push any buttons on the on-board computer. The E-bike system will automatically turn off to save energy.



Setting the electrical support level

You can use the on-board computer (10) to configure the level of assistance provided by the E-bike drive when you are pedalling. The assistance level can be adjusted at any time, including during your ride.

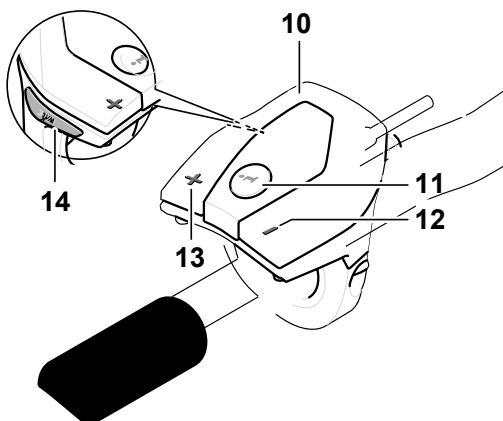
 Certain versions have a preset assistance level that cannot be changed. Certain models may also have fewer assistance levels to choose from than are shown here.

 If the E-bike was configured with eMTB mode ex works, the SPORT assistance level is replaced by eMTB. In eMTB mode, the assistance factor and the torque are adjusted dynamically depending on the pedal force applied to the pedals. eMTB mode is only available with Performance Line CX drives.

The full range of assistance levels includes:

- **OFF:** motor assistance is switched off; the E-bike is operated like a normal bicycle through pedalling alone. The pushing aid cannot be activated in this assistance level.
 - **ECO:** effective assistance with optimum efficiency for maximum range.
 - **TOUR:** consistent levels of assistance for tours with large ranges.
- SPORT/eMTB:**
- **SPORT:** powerful assistance for active riding on hilly terrain and in city traffic.
 - **eMTB:** optimum assistance on any terrain, fast acceleration, improved dynamics, maximum performance
 - **TURBO:** maximum assistance up to high pedalling frequencies for active riding

Increase the electrical support level by pressing the “+” button **13** on the operating unit until the desired electrical support level is shown at Indicator **b** or lower the value by pressing the “-” button **12**. The motor power requested is shown on the display **a**. The maximum motor performance depends on the electrical support level chosen.




10. Control panel
11. The “i” button on the On-board computer activates the display function.
12. Reduce value/scroll down “-” button
13. Increase value/scroll up “+” button
14. Pushing aid button “WALK”

Switching the pushing aid on and off


The pushing aid can make it easier for you to push the e-bike. All FLYER are equipped with a pushing aid. This is limited to 6 km/h in the highest gear. By pressing the «WALK» button **14**, the FLYER can be easily pushed out of the underground garage or over a steep passage.


To activate the pushing aid, briefly press the «WALK» button on your on-board computer. After activation, press the «+» button within three seconds and hold it down. The E-bike drive will be switched on.

 The pushing aid cannot be activated in support level «OFF».

The pushing aid is **switched off** as soon as one of the following events occurs:

- You release the «WALK» **14** button,
- The wheels of the E-bike are blocked (e.g. by breaking or bumping against an obstacle)
- speed exceeds 6 km/h or 18 km/h

 With certain systems, the pushing aid can be started directly by pressing the «WALK» button.

 When using the pushing aid, the wheels must be in contact with the ground to avoid the risk of injury.

Switch lighting on/off

The headlight and the rear light can be switched on and off at the same time by pressing the button **2** on the on-board computer when the respective bicycle version supplies the riding lights from the E-bike system. As a general rule, S-pedelecs with pedal assist up to 45 km/h have a daytime running light. The lighting will automatically turn on when you switch on the system. The button **2** will not turn off the light.

Gear Recommendation

If the notification “g” is displayed, you should shift into a higher gear and pedal at a lower cadence. If the notification “h” is displayed, you should shift into a lower gear and pedal at a faster cadence.


Battery charge status indicator


The battery charge status indicator **i** shows the charge status of the E-bike battery and not that of the internal on-board computer battery.

The charge status of the E-bike battery can be read on the battery itself.

Each bar on the battery symbol **i** corresponds to approx. 20% capacity:

 The battery is fully charged.

 The battery should be topped up.

 The charge for electrical support is used up and the electrical support function will gently switch off. The remaining capacity is provided for the lighting and the controls, the display flashes. The battery will still provide approx. 2 hours of lighting.

Other power consumers (e.g. automatic gears, charging of external devices via the USB port) are not taken into consideration here.

To reset **<Route>**, **<Riding time>** and **<Average>**, switch to one of these three functions then press the **RESET (6)** button until the display is reset to zero. The values of the two other functions are also reset when you do this. To reset **<Maximum>**, switch to this function then press the **RESET (6)** button until the display is reset to zero. To reset **<Range>**, switch to this function then press the **RESET (6)** button until the value displayed is reset to the default value. If the on-board computer is removed from the holder **(4)**, the values of all functions are saved and can continue to be displayed.

Error code display

Continuous monitoring of the components of the FLYER e-bike system is carried out automatically. If an error is detected, the corresponding error code appears in the text display **(d)**. Press any button on the on-board computer **(3)** or on the operating console **(9)** to return to the standard display. Depending on the error type, the motor may be switched off automatically. However, you can continue to ride without motor assistance at all times. The FLYER e-bike must be checked before being ridden again. The list of error codes can be found in the separate Intuvia operating instructions.

All repairs must be carried out by an authorised bicycle retailer.



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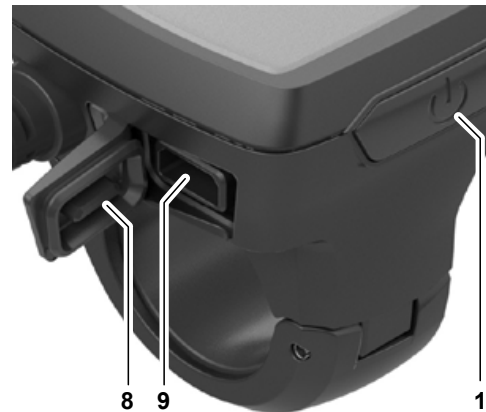
5.2 Operating the e-bike with Purion on-board computer

1. On/off button for on-board computer
2. «WALK» pushing aid button
3. Fastening screw for on-board computer
4. Holder for on-board computer
5. Reduce assistance button «-»
6. Increase assistance button «+»
7. Display
8. Protective cover for USB socket
9. USB diagnostic socket (for maintenance purposes only)



On-board computer display elements

- a Speedometer display
- b Display in km/h
- c Display in mph
- d Total distance indicator «TOTAL»
- e Range indicator «RANGE»
- f Service display
- g Battery charge status indicator
- h Lighting display
- i Support level indicator/value display
- j Trip indicator «TRIP»



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Switching on/off

The E-bike system can be **switched on** in the following ways:

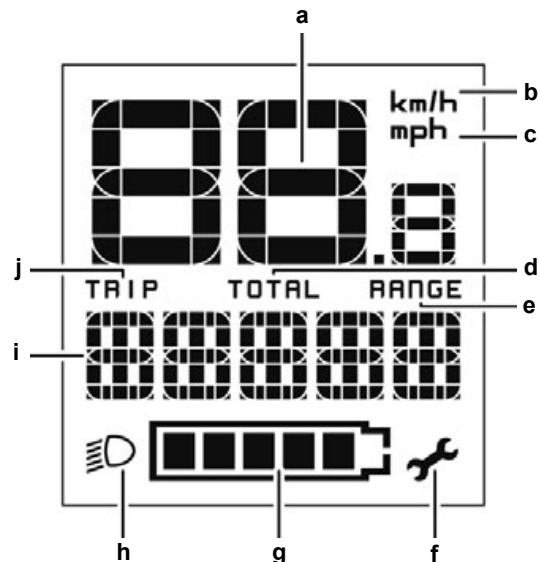
- With the E-bike battery inserted, press the on/off button **1** on the on-board computer.
- Press the on/off button on the E-bike battery (see battery operating instructions).

The drive is activated as soon as you put your feet on the pedals (except for in pushing aid mode or in support level «OFF»). The motor output is based on the support level set in the on-board computer.


If you take your feet off the pedals in normal operation, or once you reach a speed of 25/45 km/h, the support is switched off by the E-bike drive. The drive is automatically reactivated when you put your feet on the pedals and your speed drops below 25/45 km/h.


The E-bike system can be **switched off** in the following ways:

- Press the on/off button **1** on the on-board computer.
- Switch off the E-bike battery using its on/off button (see battery operating instructions).






If the E-bike remains stationary for approximately 10 minutes **and** no buttons are pressed on the on-board computer, the E-bike system switches off automatically in order to save energy.

 Always switch off the E-bike system when you park the E-bike.

 If the on-board computer batteries are empty, you can still switch on your E-bike using the bicycle battery. However, it is recommended that you change the internal batteries as soon as possible in order to avoid damage.

Indicators and settings on the on-board computer

Symbol	Explanation
	Short button press (less than 1 second)
	Medium button press (between 1 and 2.5 seconds)
	Long button press (longer than 2 seconds)

Power supply for the on-board computer

The on-board computer is supplied with power by two CR2016 button cell batteries.


Changing the batteries (see figure A)

If the on-board computer is showing «**LOW BAT**» on the display, remove it from the handlebars by unscrewing the fastening screw **3** on the on-board computer. Open the battery compartment lid **10** using a coin, remove the used batteries and insert new CR2016 batteries. You can obtain the batteries recommended by Bosch from your bicycle dealer. Make sure that the polarity is correct when inserting the batteries.


Close the battery compartment and reattach the on-board computer to the handlebars of your E-bike using the fastening screw **3**.

Battery charge indicator

The battery charge indicator **g** shows the state of charge of the E-bike battery. This can also be read off from the battery itself, via the LEDs. On the indicator **g**, each bar in the battery symbol corresponds to approximately 20% capacity:

 The E-bike battery is fully charged.


 The E-bike battery needs recharging.


 The status indicator LEDs on the battery go out. The capacity for drive


support is depleted and the support will be gradually deactivated. The remaining capacity is reserved for the lights; the display flashes. The E-bike battery has sufficient capacity remaining for approximately 2 hours of bicycle lighting.

Activating/deactivating the pushing aid

The pushing aid makes it easier for you to push the E-bike. The speed in this function depends on the gear in use and can reach a maximum of 6 km/h. The lower the selected gear, the lower the speed in the pushing aid function (at full power).


 **The pushing aid function may only be used to push the E-bike.** If the wheels of the E-bike are not in contact with the ground when the pushing aid is in use, there is a risk of injury.

To activate the pushing aid, briefly press  the «**WALK**» button on your on-board computer. After activation, press the «**+**» button within three seconds and hold it down. The E-bike drive will be switched on.

 The pushing aid cannot be activated in support level «**OFF**».


The pushing aid is **switched off** as soon as one of the following events occurs:


- you release the «**+**» **6** button,
- the wheels of the E-bike are blocked (e.g. due to braking or hitting an obstacle),
- the speed exceeds 6 km/h.

 With certain systems, the pushing aid can be started directly by pressing the «**WALK**» button.

Adjusting the support level



You can use the on-board computer (**7**) to configure the level of assistance provided by the E-bike drive when you are pedalling. The assistance level can be adjusted at any time, including during your ride.

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
 If the E-bike was configured with eMTB mode ex works, the SPORT assistance level is replaced by eMTB. In eMTB mode, the assistance factor and the torque are adjusted dynamically depending on the pedal force applied to the pedals. eMTB mode is only available with Performance Line CX drives.

The full range of assistance levels includes:

- **OFF**: motor assistance is switched off; the E-bike is operated like a normal bicycle through pedalling alone. The pushing aid cannot be activated in this assistance level.
 - **ECO**: effective assistance with optimum efficiency for maximum range.
 - **TOUR**: consistent levels of assistance for tours with large ranges.
- SPORT/eMTB:**
- **SPORT**: powerful assistance for active riding on hilly terrain and in city traffic.
 - **eMTB**: optimum assistance on any terrain, fast acceleration, improved dynamics, maximum performance
 - **TURBO**: maximum assistance up to high pedalling frequencies for active riding



To increase the support level, briefly  press the «+» 6 button on the on-board computer until the desired support level appears on the display i. Press  the «-» 5 button to decrease the support level.


Switch bicycle lighting on/off



For models where the headlight is powered by the E-bike system, you can switch on the front and rear lights simultaneously by pressing the «+» button for a couple of seconds . Hold down  «+» button to switch off the bicycle lights. When the lights are switched on, the lighting symbol **h** is displayed. Switching the bicycle lighting on and off does not affect the display backlight.

Indicators and settings on the on-board computer: speed and distance indicators

The speedometer display **a** always shows the current speed.

In the standard configuration, the display i always shows the last setting. If you repeatedly press the «-» button for a couple of seconds , the travel distance «TRIP», total kilometres «TOTAL» and battery range «RANGE» are displayed in succession. (Briefly pressing  pressing the «-» button decreases the support level!)

To reset the travel distance «TRIP», press and hold  the «+» and «-» buttons simultaneously. First, «RESET» appears on the display. Continue to hold down both buttons to reset the travel distance «TRIP» to «0».
















To change the displayed values from kilometres to miles, hold down  and press  the on/off button 1.

To reset the **RANGE** parameter, select **RANGE** and hold down the + and - buttons simultaneous-

ly. **RESET** will then appear on the display. If you continue to hold down both buttons, the **TRIP** counter will be set to 0.

The version information for the subsystems can be checked for maintenance purposes. With the system switched off, press the «-» and «+» buttons simultaneously, then press the on/off button 1.

The USB socket is reserved for connection to diagnostic systems. It has no other function.

Action	Buttons	Duration
Switch on on-board computer		Any
Switch off on-board computer		Any
Increase assistance	+	
Decrease assistance	-	
Display TRIP , TOTAL , RANGE , assistance modes	-	
Switch on bike lights	+	
Switch off bike lights	+	
Reset trip distance	- +	
Activate push assistance	WALK	1. 
Implement push assistance	+	2. Any
Switch from kilometres to miles	- 	1. Keep pressed 2. 
Display the versions ^{A)B)}	- + 	1. Keep pressed 2. 
Adjust display brightness ^{C)}	- +  - or +	1. Keep pressed 2. 

A) The eBike system must be switched off.

B) The information is shown as scrolling text.

C) The display must be switched off.



The USB connection must always be fully closed with the protective cover 8.

Error code display

Continuous monitoring of the components of the FLYER e-bike system is carried out automatically. If an error is detected, the corresponding error code appears on the on-board computer. Depending on the error type, the motor may be switched off automatically. However, you can continue to ride without motor assistance at all times. The e-bike must be checked before being ridden again.

The list of error codes can be found in the separate Purion operating instructions.

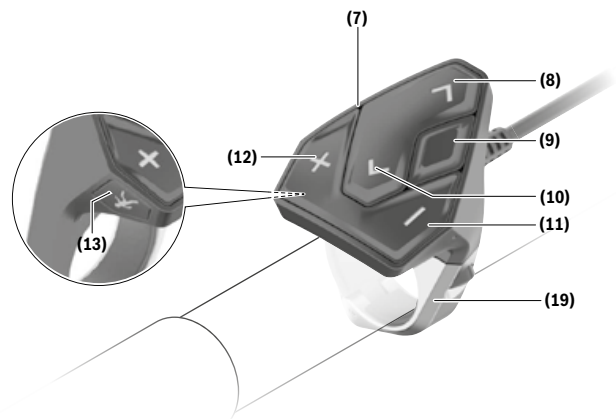
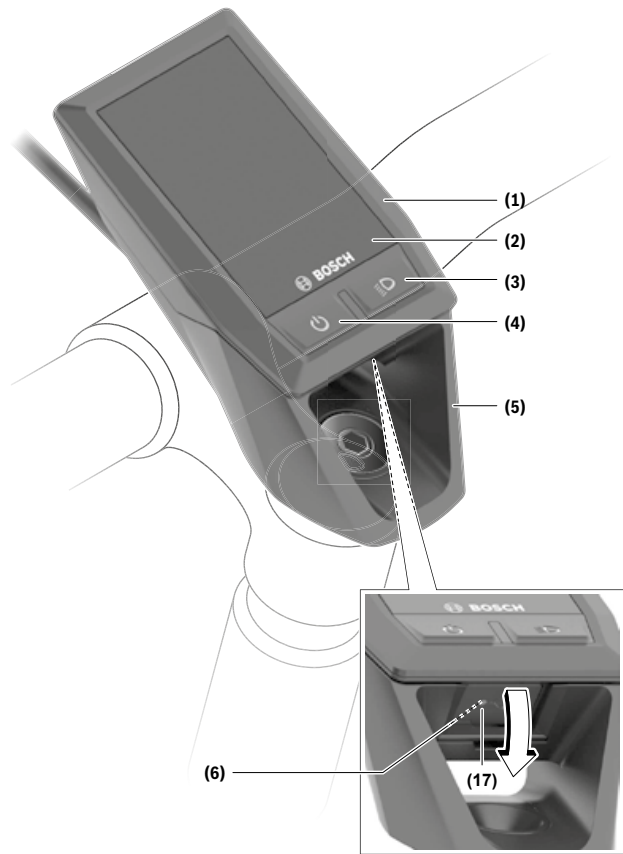


All repairs must be carried out by an authorised bicycle retailer.

5.3 Operating the e-bike with KIOX on-board computer

This brief guide only explains the main points on how to operate the system. Please also refer to the information in the enclosed manufacturer instructions.

- (1) On-board computer
 - (2) Display
 - (3) Bike lighting button
 - (4) On-board computer on/off button
 - (5) On-board computer holder
 - (6) USB socket
 - (7) Operating console
 - (8) Forwards/right button >
 - (9) Select key
 - (10) Back/left button <
 - (11) Decrease assistance button -/
Scroll down button
 - (12) Increase assistance button +/
Scroll up button
 - (13) Pushing aid button
 - (14) Contacts to drive unit
 - (15) On-board computer lock-screw
 - (16) Headset screw
 - (17) USB socket protective cap*
 - (18) Magnetic holder
 - (19) Operating console holder
- *available as a spare part



Installing and removing the on-board computer

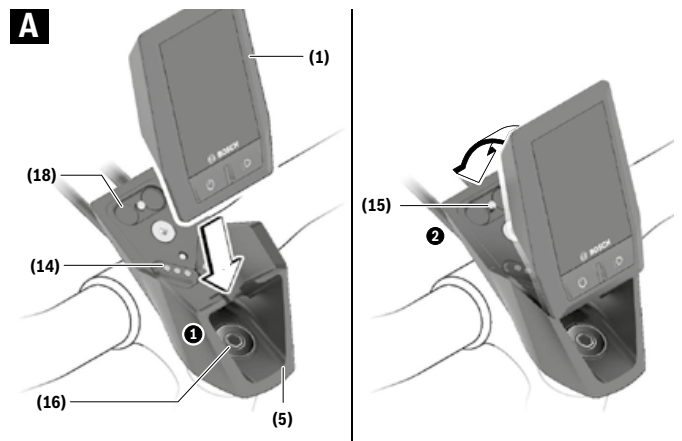
Start by positioning the lower end of the KIOX onto the holder (5) and rotate it forwards slightly until you feel it engage with the magnetic holder.

To remove the on-board computer, grasp the top and pull it towards you until it comes off the magnetic holder.

Remove the on-board computer if you park your e-bike.

You can secure your on-board computer against removal. To do so, loosen the headset screw (16) until the KIOX holder can swing from side to side. Place the on-board computer in the holder. Screw the lock-screw (M3, 6 mm long) from below into the designated thread in the on-board computer (using a longer screw may cause damage to the on-board computer).

Swing the holder back and tighten the headset screw as per the manufacturer's instructions.



Use

Before initial start-up

The **KIOX** comes with a partially charged battery. Before the first use, the battery must be charged for at least one hour via the USB socket or via the e-bike system.

The on-board computer should be fitted such that the buttons are almost vertical to the handlebars. When you start up the unit for the first time, you will first be prompted to select a language. You can then navigate to the menu item **<Kiox Introduction>** for a description of the key functions and displays. This menu item can also be accessed later on via **<Settings>** → **<Information>**.

Selecting system settings

Place the on-board computer in the holder and follow the steps below with your bike standing up: Navigate to the status screen (using the **<** button **(10)** on the on-board computer until you reach the first display) and select settings using the select key.

Using the **- (11)** and **+ (12)** buttons, you can select the desired settings and open these and any other sub-menus using the select key **(9)**. You can navigate back to the previous menu from any settings menu using the back button **(10)**.

You can adjust the following settings under **System settings**:

- <Brightness>
- <Time>
- <Date [DD.Mon.YYYY]>
- <Time zone>
- <24h form (24h time format)>
- <Brgh backg. (Bright background)>
- <Imp. units (Imperial units)>
- <Language>
- <Factory reset>

Starting up the e-bike system

Requirements

The e-bike system can only be activated if the following requirements are met:

- The e-bike battery is sufficiently charged (see battery user manual)
- The on-board computer is fitted in the holder correctly

Switching the e-bike system on/off

The e-bike system can be **switched on** in the following ways:

- Place the on-board computer in the holder **(5)**.
- Briefly press the on/off buttons **(4)** on the on-board computer and on the e-bike battery you have fitted.
- Press the e-bike battery on/off button on the

on-board computer (some models do not have an on/off button for the battery; see battery user manual).

The drive is activated once you start pedalling (apart from with the pushing aid feature or in assistance level **OFF**). The motor output is based on the assistance level set in the on-board computer. If you stop pedalling or reach a speed of **25/45 km/h** during normal use, the e-bike drive switches off the assistance. The drive is reactivated automatically once you start pedalling and while the speed remains under **25/45 km/h**.

The e-bike system can be **switched off** in the following ways:

- Press the on/off button **(4)** on the on-board computer for at least one second.
- Switch off the E-bike battery using its on/off button (some models do not have an on/off button for the battery; see the bike manufacturer's user manual).
- Remove the on-board computer from the holder.

If no more power is required from the E-bike drive (e.g. because the E-bike is at a standstill) for around ten minutes and you do not press any buttons on the E-bike's on-board computer or on-board computer, the E-bike system and the battery switch off automatically in order to save energy.

Power supply of the on-board computer

If the on-board computer is in the holder **(5)**, a sufficiently charged e-bike battery is inserted into the e-bike and the e-bike system is switched on, then the on-board computer battery is powered by the e-bike battery.

If the on-board computer is removed from the holder **(5)**, the power is supplied by the on-board computer battery. If the on-board computer battery's charge is running low, a warning message appears on the display.

To charge the on-board computer battery, slide the on-board computer back onto the holder **(5)**. Note that if you do not charge the e-bike battery straight away, the e-bike system will automatically switch off after 10 minutes of inactivity. If this happens, the on-board computer battery will also stop charging.

You can also charge the on-board computer via the USB port. To do this, open the protective cover **(17)**. Use a Micro-USB cable to connect the USB port **(6)** on the on-board computer to a commercially available USB charger (not included with the product as standard) or to the USB port of a computer (max. 5 V charging voltage; max. 500 mA charging current).

If the on-board computer is removed from the holder (5), all values for the functions are saved and can still be scrolled through.

If the Kiox battery is not recharged, the date and time will be retained for up to six months. When the on-board computer is switched on again, the date and time will be reset if a Bluetooth® connection to the app has been established and the smartphone has successfully identified the current location via GPS.



The Kiox only charges while it is switched on.



If the Kiox is switched off during charging via a USB cable, the Kiox can only be switched on again once the USB cable has been disconnected.



To maximise the lifespan of the on-board computer's battery, it should be recharged for one hour every three months.

Storage mode/resetting the Kiox

The on-board computer has an energy-saving storage mode which minimises the rate at which the internal battery discharges. Setting to this mode erases the date and time.

This mode can only be activated by pressing and holding the on/off button (4) of the on-board computer for at least eight seconds.

If the on-board computer does not start when the on/off button (4) is pressed briefly, the on-board computer is in storage mode.

You can deactivate storage mode by pressing the on/off button (4) for at least two seconds.

The on-board computer detects whether it is in a fully functional condition. If you press and hold the on/off button (4) for at least eight seconds while in a fully functional condition, the on-board computer will go into storage mode. If, contrary to expectations, the Kiox is not in a fully functional condition and cannot be operated, pressing and holding the on/off button (4) (for at least eight seconds) will reset it. After being reset, the on-board computer will restart automatically after approx. five seconds. If the Kiox does not restart, press the on/off button (4) for two seconds.

To reset the Kiox to its factory settings, select <Settings> → <Sysettings> → <Factory reset>. All user data will be lost.

Battery charge indicator

The battery charge indicator of the e-bike battery d (see "Start page", page English – 19) can be read on the status page and in the status bar. The e-bike battery's state of charge is also indicated by the LEDs on the e-bike battery itself.

Colour of indicator d	Meaning
white	The e-bike battery is over 30 % charged
yellow	The e-bike battery is over 15 % charged
red	The capacity for assisting the drive has been used up, and assistance is switched off. The remaining capacity will be provided for the bike lights and the on-board computer.

If the e-bike battery is being charged on the wheel, a corresponding notification will be displayed.

If the on-board computer is removed from the holder (5), the state of charge that was last displayed for the battery is saved.

Setting the assistance level

On the operating unit (7), you can set the level of assistance you want the e-bike drive to provide you with while pedalling. The assistance level can be changed at any time, even while cycling.

Note: In some models, the assistance level may be preset and cannot be changed. There may also be fewer assistance levels available than stated here.

The following assistance levels are available as a maximum:

- **OFF:** Motor assistance is switched off. The e-bike can just be moved by pedalling, as with a normal bicycle. The push assistance cannot be activated at this assistance level.
- **ECO:** Effective assistance with maximum efficiency, for maximum range
- **TOUR:** Steady assistance, long range for touring
- **SPORT/eMTB:**
- **SPORT:** Powerful assistance, for mountain biking and cycling in urban traffic
- **eMTB:** Optimum assistance whatever the terrain, rapid acceleration when starting from a standstill, improved dynamics and top performance (eMTB only available in combination with the drive units BDU250P CX, BDU365, BDU450 CX and BDU480 CX. A software update may be required.)
- **TURBO:** Maximum assistance even at high pedalling speeds, for sport cycling

To increase the assistance level, press the + (12) button on the operating unit repeatedly until the desired assistance level appears on the display. To decrease the assistance level, press the – (11) button. The requested motor output appears on the display h. The maximum motor output depends on the selected assistance level.

If the on-board computer is removed from the holder **(5)**, the assistance level that was last displayed for the battery is saved.

Switching the push assistance on/off

The push assistance aids you when pushing your e-bike. The speed in this function depends on the selected gear and can reach a maximum of 6 km/h. The lower the selected gear, the lower the speed of the push assistance function (at full power).

- The push assistance function must only be used when pushing the e-bike. There is a risk of injury if the wheels of the e-bike are not in contact with the ground while using the push assistance.

To activate the push assistance, briefly press the WALK button on your on-board computer. After activation, press the + button within 3 s and keep it pressed. The e-bike drive is switched on.

Note: The push assistance cannot be activated at assistance level OFF.

The push assistance is switched off as soon as one of the following occurs:

- You release the + button;
- The wheels of the e-bike are locked (e.g. by applying the brakes or hitting an obstacle);
- The speed exceeds 6 km/h.

The push assistance function is subject to local regulations; the way it works may therefore differ from the description above, or the function may even be deactivated completely.

Switching bicycle lights on/off

On the model in which the lighting is powered by the e-bike system, the front and rear lights can be switched on and off at the same time via the on-board computer using the bike light button **(3)**. With the light switched on, the lighting indicator (see “Start page”, page English – 19) appears in the status bar on the display.

Switching the bike lights on and off has no effect on the backlighting of the display.

eShift (optional)

eShift is the integration of electronic gear-shifting systems into the e-bike system. The eShift components are electrically connected to the drive unit by the manufacturer. The separate operating instructions describe how to operate the electronic gear-shifting systems.

eSuspension (optional)

eSuspension is the integration of electronic shock absorption and suspension elements into the e-bike system. You can use the Quick Menu to select predefined settings for the eSuspension system.

For details of these settings, please refer to the operating instructions provided by the

eSuspension manufacturer. eSuspension is only available in combination with the Kiox on-board computer and can only be used with the BDU450 CX, BDU480 CX and BDU490P drive units.

ABS – anti-lock braking system (optional)

If the wheel is fitted with a Bosch e-bike ABS with no external control lights, the control lights will be shown on the display when the system starts and in the event of a fault. For detailed information on the ABS and how it works, please refer to the ABS operating instructions.

Lock (premium function)

You can buy this function from the **<Shop>** in the e-bike Connect app. Once the Lock function is switched on, the e-bike drive unit assistance is deactivated. It can only then be activated using the on-board computer associated with the e-bike. Detailed operating instructions can be found online at www.Bosch-e-bike.com/Kiox-manual.

Software updates

Software updates are transferred to the on-board computer in the background of the app as soon as it is connected to the app. When an update is complete, this will be displayed the next three times the on-board computer is restarted.

Alternatively, you can check in the **<Sys settings>** whether an update is available.

Powering external devices via the USB port

The USB port can be used to operate or charge most devices that can be powered via USB (e.g. various mobile phones). Charging requires the on-board computer to be mounted and a sufficiently charged battery to be inserted in the e-bike.

Open the protective cover **(17)** for the USB port on the on-board computer. Use a Micro-A – Micro-B USB charging cable (available from your Bosch e-bike dealer) to connect the USB port on the external device to the USB port **(6)** on the on-board computer.

Once the electrical load has been disconnected, the USB port must be carefully resealed with the protective cover **(17)**. USB connections are not waterproof. When cycling in the rain, do not connect any external devices and make sure that the USB port is fully sealed by the protective cover **(17)**. Important: If electrical loads are connected, this can affect the range of the e-bike.

Displays and settings of the on-board computer
Please note: All screenshots showing the display and text on the following pages are from the approved software version. The display and/or text may change slightly following a software update.

Operating logic

You can use the < (10) and > (8) buttons to switch between the different riding value information pages (even while riding). This way, you can keep both hands on the handlebars while cycling.

You can use the + (12) and - (11) buttons to increase or decrease the assistance level. If you are in a list (e.g. the <Settings> menu), you can use these buttons to scroll up or down in the list.

The <Settings> that can be accessed via the status page cannot be changed while riding.

You can use the select button (9) to perform the following functions:

- You can access the quick menu while riding.
- You can access the settings menu from the status page while stationary.
- You can confirm values and acknowledge informative hints.
- You can exit a dialogue.

If the on-board computer is removed from its holder and not switched off, it will display information regarding the last journey, as well as status information, on a loop.

If no button is pressed after the on-board computer is removed from the holder, it will switch itself off after one minute.

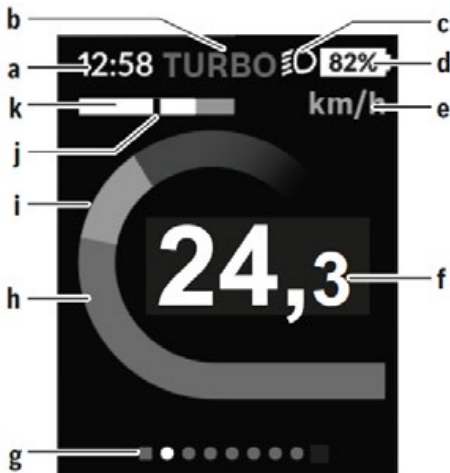
Order of pages

Provided the on-board computer is fitted to the holder, you can view the following displays one after the other:

1. Start page
2. Time and range
3. Distance and journey time
4. Power and cadence
5. Average and maximum speed
6. Distance, range, power and heart rate
7. Heart rate
8. Calories burnt and total distance
9. Status page

Start page

When you insert the on-board computer into the holder while it is switched on, it will display the start page.



a Time/speed indicator

b Assistance level indicator

c Lighting indicator

d Battery charge indicator of the e-bike battery

e Unit of speed indicator(A)

f Speed

g Navigation bar

h Motor output

i Your performance

j Average speed

k Performance evaluation

A) Can be changed via the <Settings> status page.

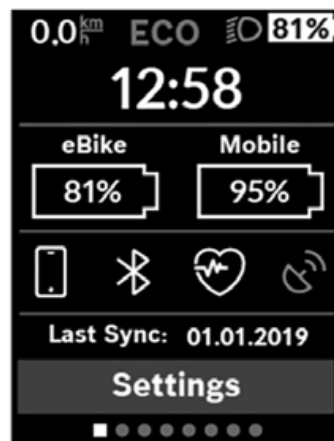
The **a** and **d** indicators form the status bar and are shown on every page. If the speed is already being displayed on the screen itself, the **a** indicator will change to the current time in hours and minutes. The status bar displays:

- **Speed/time**: The current speed in km/h or mph or the current time
- **Assistance level**: Indicates the current level of assistance using a colour code
- **Light**: A symbol that indicates whether the light is on
- **e-bike battery state of charge**: Indicates the current state of charge as a percentage

The performance evaluation **k** graphically displays your current speed (white bar) in comparison to your average speed **j**. The graphic shows you whether your current speed is faster or slower than your average speed (left of the black line = lower than average value; right of the black line = higher than average value).

The navigation bar **g** indicates which page you are on. Your current page is highlighted. You can use the (10) < and (8) > buttons to go to different pages. From the initial start page, you can access the status page via the < (10) button.

Status screen



As well as the status bar, the status page also shows you the current time and the state of charge of all your eBike's batteries, as well as the

state of charge of your smartphone battery if the smartphone is connected via Bluetooth®. It may also display symbols to indicate an activated Bluetooth® function or a device connected via Bluetooth® (e.g. a heart-rate monitor). You will also be shown the date of the most recent synchronisation between the smartphone and Kiox. You can access the **<Settings>** from the bottom section.

<Settings>

You can access the settings menu via the status page. The **<Settings>** cannot be accessed or changed while riding.

You can use the **- (11)** and **+ (12)** buttons to select the setting you want. You can open the settings, as well as any additional submenus, using the select button **(9)**. You can use the **<** button **(10)** to go back to the previous menu from any settings menu.

You can find the following superordinate sections on the first navigation level:

- **<Registration>** – Information about registration: This menu item is only displayed if you have not yet registered with eBike Connect.

- **<My eBike>** – Settings for your eBike

You can reset the counters (such as the number of kilometres travelled that day or average values) to zero either automatically or manually, and you can reset the range. You can change the wheel circumference value that was preset by the manufacturer by $\pm 5\%$. If your eBike features eShift, you can also configure your eShift system here. The bicycle manufacturer or dealer may base the service date on the distance travelled and/or a period of time. The due date for the service is displayed under **<Next Service: [DD. Mon. YYYY] or at [xxxxx] [km]>**. The bike component page displays the serial number and hardware and software versions for each component in addition to other key data which is relevant for the components.

- **<My profile>** – Active user data

- **<Bluetooth>** – Switching the Bluetooth® function on or off: Connected devices are displayed

- **<Sys settings>** – A list of setting options for your on-board computer

You can display the speed and distance in kilometres or miles, display the clock in 12- or 24-hour format, adjust the time, date and time zone and select your preferred language. You can reset the Kiox to its factory settings, run a software update (if available) and choose between a black or white design.

- **<Information>** – Information about your Kiox Information on FAQs (frequently asked questions), certification, contact information, information on licences.

You can find a detailed description of each parameter in the online operating instructions at www.Bosch-eBike.com/Kiox-manual.

Quick Menu

Selected settings are displayed on the Quick Menu. These settings can be changed even while riding. You can access the Quick Menu via the select button **(9)**. It cannot be accessed from the Status screen.

The following settings can be changed via the Quick Menu:

- **<Reset trip data?>** All data on the journey so far is reset to zero.

- **<eShift>** You can set the cadence here.

- **<eSuspension>** This is where you can set a manufacturer-defined shock absorption or suspension mode.

The eBike system's components are continuously and automatically monitored. If an error is detected, the corresponding error code is displayed on the on-board computer. The drive may be automatically shut down, depending on the type of error. However, if you wish to continue cycling, you will always be able to do so without assistance from the drive. Before undertaking any other journeys, the eBike should be checked.

The list of the error codes you can find in the separate Bosch Kiox manual.

EN



Have all repairs performed only by an authorised bike dealer.

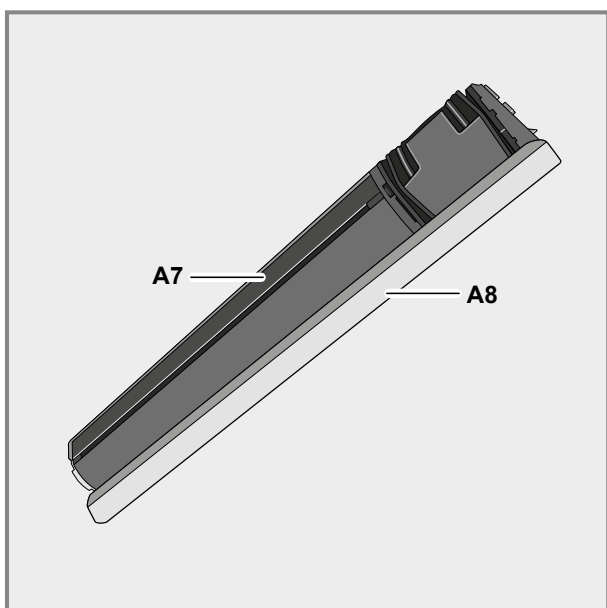
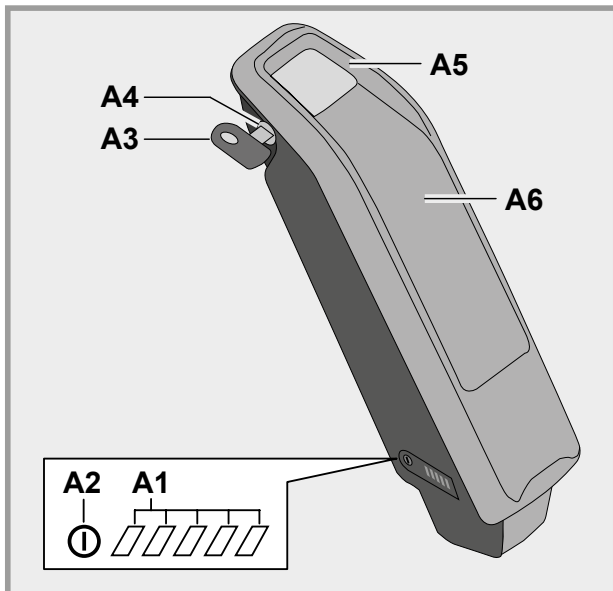
5.4 Checking the battery before its first use

Check the battery before you charge it or use it with your e-bike for the first time. Press the **A2** on/off button to switch on the battery. The battery may be damaged when no LED on the charge status indicator **A1** lights up. Fully charge the battery before its first use when one but not all LEDs of the charge status indicator **A1** light up.



The battery may not be recharged when it indicates a fault. The battery might be damaged after being dropped or due to mechanical impact, even when there is no visible external damage. Such batteries must therefore be inspected by a FLYER specialist retailer. Never try to open a battery or to repair it.

- A1 Operating and charge status display
- A2 On/Off button
- A3 Key to the battery pack holster
- A4 Battery lock
- A5 Top holder
- A6 Standard battery
- A7 Power tube battery
- A8 Power tube battery cover panel



Do not charge a damaged battery and do not use it. Contact an authorised FLYER bicycle dealer. Damaged batteries must not be posted.

5.5 Loading the battery



Safety warning for the battery charger: The name plate on the charger refers to warning notes and other safety information in connection with handling the charger. Be sure to read this before use.

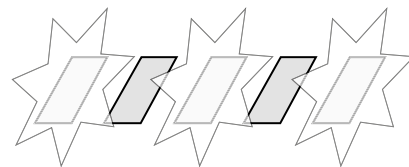


1. You should also familiarise yourself with all the information and instructions contained in the separate operating instructions for the battery and the charger.
2. Please note the temperature ranges of the battery and charger: Battery operating temperature: -5 °C to 40 °C Battery storage temperature: 10 °C to 40 °C Charging temperature range: 0 °C to 40 °C

3. Do not connect the charger to the mains socket immediately after a sudden temperature change from cold to warm. It is possible that condensed water has collected on the contacts and this will lead to a short circuit. Do not connect the battery to the charger immediately after a sudden temperature change from cold to warm. Wait until both devices have reached room temperature before connecting the charger or the battery. Always charge and store the battery and the charger in a dry and clean environment. Do not expose the charger to rain or wet environments. If water enters the charger, there is a risk of electric shock.
4. Use only the original Bosch charger supplied along with your e-bike. Only this charger is designed for the lithium-ion battery used on your e-bike.
5. The battery is supplied partially charged. Completely charge the battery using the charger before the first ride to ensure full battery performance. Read and adhere to the operating instructions for the charger when loading the battery.

The battery can at any time be charged outside or installed in the bicycle without reducing its life span. Interrupting the charging process does not damage the battery.

The battery is equipped with a temperature monitor that permits charging only within a temperature range of 0 °C to 40 °C. Three of the charging status indicator LEDs will flash when the battery is outside the charging temperature range **A1**.



In this case, separate the battery from the charger and wait until it has reached operating temperature. Only reconnect the charger when it has reached the permitted operating temperature.



1. The charging time increases when the battery temperature is very low.
2. Prevent extreme overheating due to external effects or overloading.
3. Only use the battery with your FLYER.
4. Never use a damaged battery. If you discover cracks, deformation of the housing or leaks, stop using the battery and have your FLYER checked by a specialist retailer. Damaged batteries must not be posted.
5. In cold weather, only insert the battery shortly before beginning riding.

The lighting function will still continue for approx. one hour after the battery is empty.

5.6 Inserting and removing the battery

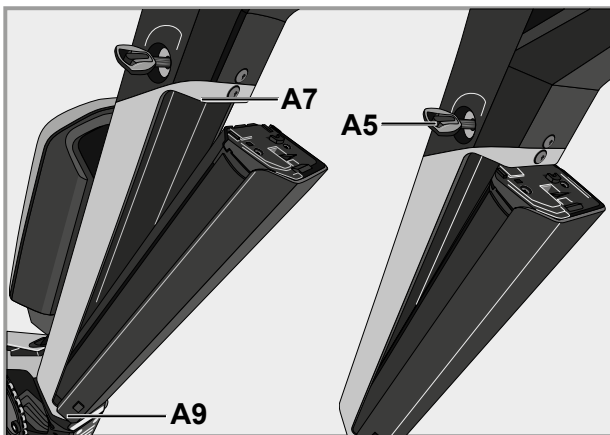


Switch off the battery whenever you insert it into its holder or remove it from its holder.

Standard PowerTube battery with integrated cover

To insert the PowerTube battery **A10**, place it on the e-bike with its contacts on the lower holder **A9**. Tilt it into the upper holder **A7** until it reaches the limit stop and audibly clicks in. The battery is only fixed in the upper holder once this is done. Check that the battery is fitted securely. Always remove the key **A5** from the lock **A6** once you have fastened it shut. This will prevent the key from falling out or the battery being removed by unauthorised third parties when your e-bike is parked.

To remove the PowerTube battery **A10**, switch it off. Unlock the lock with the key **A5**. The battery moves into the locking position. Unlock the battery, tilt it out of the upper holder **A7** and pull it out of the lower holder **A9**.

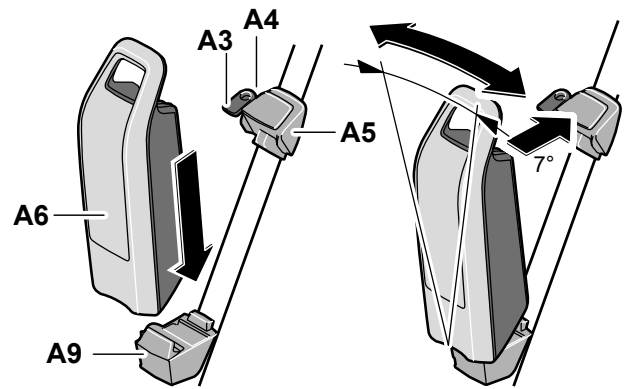


To insert the additional battery **A8**, place it on the e-bike with its contacts on the lower holder **A9** (the battery can be tilted by up to 7° relative to the frame). Tilt it into the upper holder **A7** until it reaches the limit stop. Check that the battery is fitted securely.

Always fasten the battery with lock **A6**, otherwise the lock will open and the battery may fall out of the holder.

Always remove the key **A5** from the lock **A6** once you have fastened it shut. This will prevent the key from falling out or the battery being removed by unauthorised third parties when your e-bike is parked.

To remove the additional battery **A8**, switch it off and unlock the lock with the key **A5**. Tilt the battery out of the upper holder **A7** and pull it out of the lower holder **A9**.



5.7 Storing the battery

Please read the instructions and regulations on battery storage in the separate operating instructions for the batteries.

6. Legal requirements

EN

For pedelecs and e-bikes, special provisions sometimes apply for their limit of use. This means that e-bikes are partly operated like a bicycle and other times not.

Before riding on public roads with your FLYER, inform yourself on the current legal requirements enforced in your country.

This information can be found at your FLYER retail store, the respective national bike or e-bike associations and online.

Here you can gather information on how your FLYER must be equipped in order to ride it on public roads.

The lighting system required to be installed or carried with you is also described. You will also be informed on which brakes the bike needs to be equipped with.

By reading the national legislation, you can also obtain information about the current age required to ride the bike and where it is allowed or must be ridden. The regulations for children riding on public roads are also found here. It will be made clear if a helmet is required to be worn by law.



However, the rules and regulations for e-bikes are constantly being revised and changed. Stay informed about changes in legislation in order to remain up-to-date.



Check whether your private third-party-liability insurance covers possible damage caused by using an e-bike.



FLYER e-MTBs are not designed and equipped for on-road use.

FLYER E-MTB with pedal assist up to 45 km/h
 The FLYER Goroc with pedal assist up to 45 km/h is no longer a bicycle but a motor vehicle. This means that it requires authorisation. The authorisation is only valid for the vehicle in its original configuration. Therefore, you must not make any changes to your vehicle. Only 100% identical original spare parts may be used. Otherwise, safe and correct functioning cannot be guaranteed. This may lead to accidents or falls that cause serious injury. The warranty and guarantee will also be rendered void.

Additional information for S-Pedelec EU models

- **Legal requirements:** Make sure you are fully aware of the legal requirements that apply to you. These concern insuring your FLYER, putting it into circulation and using roads and cycle paths in your country. Legal requirements can vary from country to country. They are constantly being updated. Please note that you are not permitted to attach a trailer in which a child is seated. Child seats are not permitted either.
- The EU-wide requirements to wear a helmet and carry a driving licence also apply and may take a modified form in other countries.
- **Replacing parts:** Your FLYER S-pedelec is no longer a bicycle but a motor vehicle. This means that it requires authorisation. The authorisation is only valid for the vehicle in its original configuration. Therefore, you must not make any changes to your vehicle. Only 100% identical original spare parts may be used. Otherwise, safe and correct functioning cannot be guaranteed. This may lead to accidents or falls that cause serious injury. The warranty and guarantee will also be rendered void.
- Make sure that the components approved for an S-Pedelec fit correctly and work properly:
- **A rearview mirror, number plate holder and brake light** are required by law. They must be correctly fastened and must always work properly. If this is not the case, you may not use your FLYER S-Pedelec on public roads.
- **Light function:** For legal reasons, the light function is always activated as soon as you turn on the system. The light button has no function.
- **Torque figures:** When performing work on your FLYER S-Pedelec, always comply with the prescribed tightening torque. You must use a torque spanner for this. Screws that are too tight or too loose can cause breakages, faults or the loss of components. See the separate "Technical Data" operating instructions document. The torque value must not be exceeded in any way, in particular where carbon parts are used. Use carbon paste to help reduce the torque while ensuring a secure connection. Never use conventional grease to lubricate carbon parts.



The requirements to wear a helmet and carry a driving licence apply to S-Pedelecs and may take a modified form in other countries. Please observe the national laws/regulations on the required helmet type.



Please note that you are not permitted to attach a trailer in which a child is seated to your S-Pedelec. Child seats are not permitted either.



The rules and regulations for E-bikes are constantly being revised and changed. Stay informed about changes in legislation in order to remain up to date.

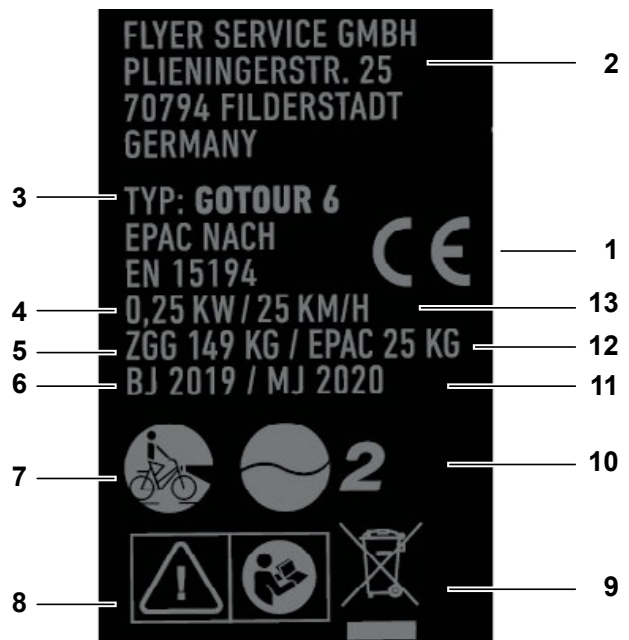


Check whether your private third-party liability insurance covers possible damage caused by using a FLYER E-bike.

7. Type plate and approval number

7.1 Type plate for pedelecs up to 25 km/h

This chapter explains all the information that is found on the type plate. The type plate is affixed to the frame of your FLYER e-bike. There are thirteen pieces of information on the type plate.





1. **CE marking:** The CE marking is used by the manufacturer to declare that the pedelec satisfies the applicable requirements.
2. **Distributor's contact details:** You can contact the distributor at this address.
3. **Type number:** Each type of pedelec has a unique type number.

4. **Maximum continuous rated power:** The maximum continuous rated power is the maximum power at the output shaft of the electric motor over a period of 30 minutes.
5. **Permitted total weight:** The permitted total weight is the total weight comprising the pedelec in its ready-to-use state and its maximum load (including the weight of the rider).
6. **Year of manufacture:** This is the year in which the pedelec was manufactured.
7. **Bicycle type:** See Chapter 7.3 for more information.
8. **Safety information:** See Chapter 7.2 for more information.
9. **Disposal instructions:** See the chapter “Environmental protection tips” for more information.
10. **Range of use:** See Chapter 7.4 for more information.
11. **Model year:** For pedelecs manufactured in series production, the model year is the first production year for the version in question and is therefore not always the same as the year of manufacture. In some cases, the year of manufacture may be earlier than the model year. If no technical changes have been made to the series, pedelecs of a past model year can continue to be manufactured afterwards.
12. **Weight of the bicycle in its ready-to-use state:** The stated weight of the bicycle in its ready-to-use state is the weight of the pedelec at the time of sale. Any additional accessories must be added on to this weight.
13. **Switch-off speed:** The switch-off speed (in km/h) is the speed at which the pedelec’s motor assistance function is switched off.


7.2 Safety symbols

The following safety symbols appear on the type plate:

Symbol	Description
	General warning
	Observe the instructions for use

7.3 Bicycle type






Symbols denoting the type of pedelec appear on the type plate of your FLYER e-bike.

Symbol	Description
	City and trekking bike

	Children's bike/youth bike
	Off-road bike
	Racing bike
	Cargo bike
	Folding bike

7.4 Range of use

Symbols indicating where the pedelec can be used appear on the type plate of your FLYER e-bike. See Chapter 8 “Intended use” for more information.

Symbol	Description
 1	The pedelec is suitable for riding on tarmac and paved roads.
 2	The pedelec is not suitable for off-road use or jumps. The pedelec is suitable for riding on tarmac roads, cycle paths and well-compacted gravel roads, as well as for longer routes with a moderate incline and jumps of up to 15 cm.
 3	The pedelec is suitable for riding on tarmac roads, cycle paths and gentle to challenging off-road routes, routes with a moderate incline and jumps of up to 61 cm.
 4	The pedelec is suitable for riding on tarmac roads, cycle paths and gentle to challenging off-road routes, limited downhill use up to 25 km and jumps of up to 122 cm.
 5	The pedelec is suitable for riding on tarmac roads, cycle paths and gentle to extremely challenging off-road routes, unrestricted downhill use and any type of jump

7.5 Approval number for S-pedelects with pedal assist up to 45km/h



On FLYER S-pedelects, the TÜV approval number for S-pedelects in the EEA can be found in place of the type plate. The approval number is located on the frame.



In Switzerland, there is no approval number, but only the type label bearing the manufacturer's address. The type label is located on the frame of your FLYER e-bike.

8. Intended use



The FLYER is intended for transporting one person only

Carrying luggage is only permitted if appropriate equipment is fitted on the FLYER and the luggage is securely fastened. The maximum carrying capacity of the luggage rack as well as the maximum permitted total weight of the vehicle must not be exceeded.



Permitted total weight: Rider weight + FLYER weight + battery weight + luggage weight + trailer weight (you can find the permitted total weight of your FLYER in the separate "Technical Data" operating instructions document).

Uproc Hardtail mountain bikes

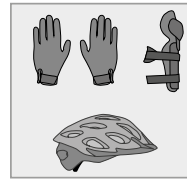


Uproc Hardtail mountain bikes are off-road bikes (see Chapter 7.3 "Bicycle type" for a description of the different bicycle types)



3

Uproc Hardtail mountain bikes are suitable for riding on tarmac roads, cycle paths and gentle to challenging off-road routes, routes with a moderate incline and jumps of up to 61 cm. (See Chapter 7.4 for a description of the range of use.)



Appropriate protective equipment (a suitable helmet, gloves) must be worn.

Retailers and manufacturers shall not be held liable in the event of use that goes beyond the intended purpose. This applies in particular to failure to comply with safety instructions and the resulting damage, for example caused by:

- use on rough terrain, jumps, steep descents, bike parks
- overloading, or
- improper remedying of defects. FLYER e-MTBs are not designed to withstand extreme use, e.g. riding down stairs or over jumps, performing tricks or stunts, or taking part in unauthorised competitions.

FLYER Uproc mountain bikes are not compliant with StVZO (the German regulations authorising the use of vehicles for road traffic) ex works and therefore are not authorised for use on roads. Please ask your FLYER specialist retailer about making your FLYER e-MTB StVZO-compliant if you wish to ride it on roads.

Uproc Full Suspension mountain bikes

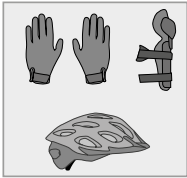


Uproc Full Suspension mountain bikes are off-road bikes (see Chapter 7.3 "Bicycle type" for a description of the different bicycle types)



3

Uproc Full Suspension mountain bikes are suitable for riding on tarmac roads, cycle paths and gentle to challenging off-road routes, routes with a moderate incline and jumps of up to 61 cm. (See Chapter 7.4 for a description of the range of use)



Appropriate protective equipment (a suitable helmet, gloves) must be worn.

Retailers and manufacturers shall not be held liable in the event of use that goes beyond the intended purpose. This applies in particular to failure to comply with safety instructions and the resulting damage, for example caused by:

- use on rough terrain, jumps, steep descents, bike parks
- overloading, or
- improper remedying of defects. FLYER e-MTBs are not designed to withstand extreme use, e.g. riding down stairs or over jumps, performing tricks or stunts, or taking part in unauthorised competitions.

FLYER Uproc mountain bikes are not compliant with StVZO (the German regulations authorising the use of vehicles for road traffic) ex works and therefore are not authorised for use on roads. Please ask your FLYER specialist retailer about making your FLYER e-MTB StVZO-compliant if you wish to ride it on roads.

FLYER e-bikes are not licensed for use in competitions and contests. If you have any questions regarding the bike's limits of use, please don't hesitate to contact your FLYER specialist retailer or manufacturer.

Goroc Hardtail mountain bikes – equipped and approved for public roads



Goroc Hardtail mountain bikes are off-road bikes (see Chapter 7.3 “Bicycle type” for a description of the different bicycle types)

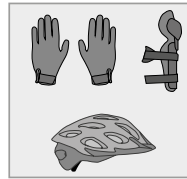


Goroc Hardtail mountain bikes are city and trekking bikes (see Chapter 7.3 “Bicycle type” for a description of the different bicycle types)



3

Goroc Hardtail mountain bikes are suitable for riding on tarmac roads, cycle paths and gentle to challenging off-road routes, routes with a moderate incline and jumps of up to 61 cm. (See Chapter 7.4 for a description of the range of use.)



Appropriate protective equipment (a suitable helmet, gloves) must be worn.

Retailers and manufacturers shall not be held liable in the event of use that goes beyond the intended purpose. This applies in particular to failure to comply with safety instructions and the resulting damage, for example caused by:

- use on rough terrain, jumps, steep descents, bike parks
- overloading, or
- improper remedying of defects. FLYER e-MTBs are not designed to withstand extreme use, e.g. steep descents or high jumps, performing tricks or stunts, or taking part in unauthorised competitions.

Before riding on public roads with your FLYER, inform yourself about the current riding regulations in your country. Only ride on pathways and trails that are permitted for vehicles.

Goroc Full Suspension mountain bikes – equipped and approved for public roads



Goroc Full Suspension mountain bikes are off-road bikes (see Chapter 7.3 “Bicycle type” for a description of the different bicycle types)



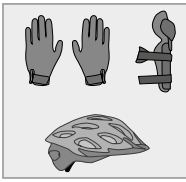
Goroc Full Suspension mountain bikes are city and trekking bikes (see Chapter 7.3 “Bicycle type” for a description of the different bicycle types)



3

Goroc Full Suspension mountain bikes are suitable for riding on tarmac roads, cycle paths and gentle to challenging off-road routes,

routes with a moderate incline and jumps of up to 61 cm. (See Chapter 7.4 for a description of the range of use.)



Appropriate protective equipment (a suitable helmet, gloves) must be worn.

Retailers and manufacturers shall not be held liable in the event of use that goes beyond the intended purpose. This applies in particular to failure to comply with safety instructions and the resulting damage, for example caused by:

- use on rough terrain, jumps, steep descents, bike parks
- overloading, or
- improper remedying of defects. FLYER e-MTBs are not designed to withstand extreme use, e.g. steep descents or high jumps, performing tricks or stunts, or taking part in unauthorised competitions.

Before riding on public roads with your FLYER, inform yourself about the current riding regulations in your country. Only ride on pathways and trails that are permitted for vehicles.

Fast e-MTBs



Goroc Full Suspension MTBs have assistance up to 45 km/h. Please read Chapter 6 “Legal requirements / Fast e-MTB” for information on using your motor vehicle..

8.1 Responsible E-MTB riding

When using your FLYER MTB, ensure that you ride responsibly, respecting nature, the environment and other people. As a result of your considerate behaviour, nature is preserved as a location for you to enjoy your sport and your interaction with other users will remain conflict-free.

Therefore, please observe the following rules:

- You must ride only on designated area, and keep nature from being damaged. Comply with any route closures and cycling bans and respect nature and wildlife conservation areas, as these are imposed for a good reason.
- Except in emergency situations, you should not brake by locking your wheels as this causes soil erosion and damage to paths and routes.
- Ride under control, with care, and at an appropriate speed. You should always be able to stop within the range of your vision, in case obstacles, other riders or pedestrians should suddenly appear.

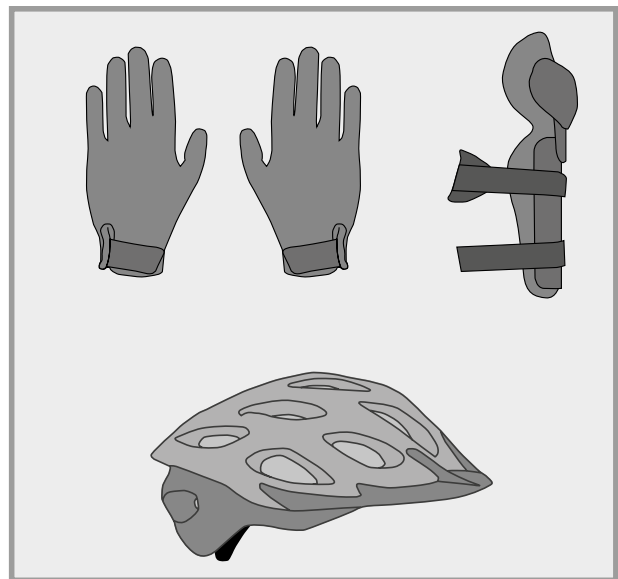
- Call attention to your presence when you are looking to pass others on paths and routes. Do not startle them, but rather ride past them slowly, or stop.
- Respect grazing animals and wild animals in woodland and meadows. Do not leave any field or meadow gates open and once dusk has fallen do not ride through woodland, so as to avoid disturbing the peace of animals foraging for food.
- Plan your trip carefully and take weather forecasts into account. Assess your own abilities properly, taking them into account when selecting your route, and take the appropriate equipment with you. This includes tools, food and drink and a first-aid kit for unforeseen situations. For your own safety you should wear the appropriate equipment (helmet, protectors).
- Do not leave any litter behind you.



You should always wear protectors and a helmet for your safety.

Keep body parts and clothing away from chain rings, the moving chain and rotating pedals, cranks and gears.

Wear light-coloured, clearly visible clothing that is sufficiently close-fitting so as not to get caught on moving parts of the bike or on objects on the road or trail.



8.2 Special instructions for FLYER with carbon frame



If your FLYER has a carbon frame, please read and observe the following information: Although carbon frames have the benefit of reducing fatigue, they must be inspected regularly. Carbon frames are stable and lightweight. However, in the event of an accident or overloading, they break rather than deform.

Carbon frames are not ductile. If a carbon frame is overloaded, it does not deform – it breaks. If you discover a crack, or if you hear unusual creaking or squeaking noises while riding, have the carbon frame inspected by a FLYER dealer.

- If your FLYER carbon frame is overloaded or involved in a crash, have it checked by your FLYER dealer even if there is no visible damage.
- Where carbon parts are used, the torque value must not be exceeded in any way. Use carbon paste to help reduce the torque while ensuring a secure connection. Never use conventional grease to lubricate carbon parts.
- Carbon becomes brittle upon direct exposure to heat radiation (e.g. heaters). This may cause the carbon frame to break, which can result in accident and injury.
- FLYER bikes with a carbon frame must never be mounted on a car bike rack using standard frame clips, as these will damage the frame.
- The clip on the seat tube opening must not be closed when the seat post is removed from a FLYER with a carbon frame.

9. Before the first ride

Ensure that the e-bike is ready for use and adjusted to fit your body.

This includes:

- Setting the position and fixture of the seat and handlebars
- Adjusting the brakes
- Securing the wheels into the frame and fork
- Any parts that are not supplied already assembled should be fitted by a FLYER specialist retailer.

To ensure that you enjoy a safe and comfortable riding position, please allow your FLYER specialist retailer to set up your handlebars and stem.

Have the saddle set to a safe and comfortable position (see Chapter 12.2.).

Have the brake handles set by the FLYER specialist retailer so that you can reach them easily at all times and can use the brake without getting tired. Be sure to familiarize yourself with the brake levers connected to the front and back wheels – the left brake lever is usually for the front wheel and the right lever is usually for the back one! However, on fast crossover bikes in the EU, this is the other way round for legal reasons. Your

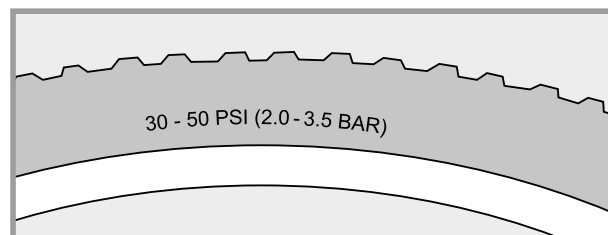
FLYER dealer will record the brake lever settings in the service booklet.

Despite this general rule, however, you should still check what wheels the brakes are connected to since this standard isn't always followed.

Before each ride, and anytime your bike has been left unattended for a short period of time, make sure to check if each screw, quick-release lever, thru axle or other important components are properly secured where they belong. A table listing the most important screw connections and the prescribed fastening torques is provided in the "Technical Data", while notes on the correct use of quick release fasteners and quick release axles are provided in Chapter 12.1.

When you are driving with clipless/step-in pedals: Functional testing is required. The pedals should release easily and smoothly.

Check the tyre pressure. The manufacturer guidelines which may not be exceeded or undercut are printed on the side of the tyres. Do not exceed either the stipulated maximum pressure or drop below the stipulated minimum pressure. General comments: Lower air pressure gives greater traction and comfort, while higher air pressure reduces resistance and extends range.



Example of tyre pressure information

It is also necessary for you to check the following components of your FLYER e-bike:

- Please check that the battery is secure.
- Check the charging state of the battery to ensure that the charge is sufficient for the drive planned.
- Familiarise yourself with the functions of the operating element.



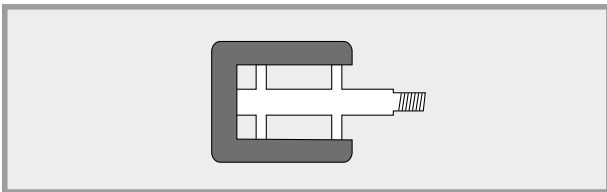
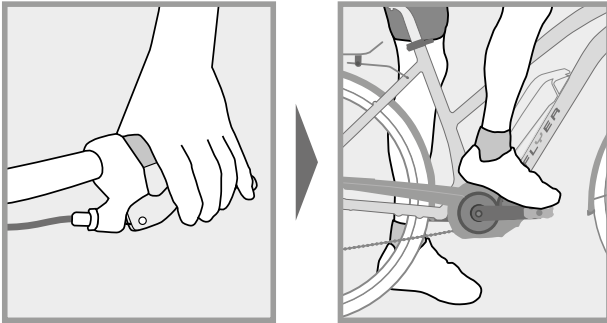
Familiarize yourself with your new FLYER e-bike's riding and handling performance by testing its features out in a safe and quiet area.



1. Only use a FLYER with a frame size that suits you. Ensure that your legs have enough room to manoeuvre. You must be able to dismount quickly without touching the frame. Insufficient clearance or room to manoeuvre may lead to severe injuries.
2. Please note that while preparing to mount your FLYER that it will immediately start moving as soon as you put your foot onto the pedal when the

support mode is switched on. Do not place your foot on the pedal when mounting. Hold the brake, as the unfamiliar thrust may otherwise lead to falls or other accidents. Stand to one side of the FLYER and lift your leg over the e-bike. Firmly hold the handle bars with both hands, as you would do with a bicycle.

3. Modern brakes have a substantially higher braking performance than conventional brakes. Carefully practise using your brakes. Note that in wet conditions and on slippery roads, your bike's braking power, especially when using rim brakes, is severely reduced. Expect a longer braking distance if you are riding in wet conditions. Look ahead while riding and familiarise yourself with the brakes' response time.



If your pedals are produced with a rubber or plastic coating, first carefully familiarise yourself with the grip of the pedals. The pedals may be very slippery under wet conditions. Use safe terrain without traffic to familiarise yourself with system pedals or clipless pedals.

1. Please note that the weight distribution of the e-bike is different from that of a bicycle without electrical drive. The weight of an e-bike makes parking, lifting, carrying or pushing up-hill more difficult.
2. Take note that your FLYER must be equipped according to the legal requirements if it is to be used in public road traffic.

3. Check with your insurance whether your vehicle and possible risks of handling lithium/ion batteries are sufficiently covered.

10. Before each ride



Please check your FLYER before each ride, as even after assembly, briefly leaving the bike in public places or transporting it may cause functions to change or parts to become loose.

Before every ride, please check that:

- The lights are working properly and are securely attached
- The brakes are working properly and are secure, and you have checked for wear on the pads and braking surfaces. For hydraulic systems: Check the cables and connections for leaks.
- Check that the tyres have the correct air pressure. Please note the specifications in Chapter "Tyres and tubes" (12.2). These are also printed on the outside wall of the tyres.
- Check for any damage on the tyres, including wear, foreign objects and brittle appearance. Also be sure the tyres have enough tread on them.
- Check that the wheels are safely and correctly attached by fastening nuts or quick release fasteners.
- Check that the gear shift components are working and are safely secured.
- All quick release fasteners and quick release axles (even after a brief period left parked and unattended), as well as screws and nuts to ensure they are firmly attached.
- Check the frame and fork for damage, deformation, cracks and dents.
- The chain guide (chain guard) is working and is securely attached
- Check that suspension elements are working properly and are safely secured.
- Check that handlebars, stem, seat post and seat are secure and correctly positioned.
- Battery charge.
- Check that the battery is correctly and securely attached.



1. If you are not sure that your FLYER e-bike is in perfect technical condition, do not start your ride. Have your FLYER first inspected and repaired by a FLYER specialist retailer. If you subject your FLYER to intensive use (in sporting or daily use), we recommend regular inspection and repairs by your FLYER specialist retailer. Inspection procedures and intervals are specified in

Chapter 19. All components of the FLYER are safety-related and have a specific service life. Exceeding this service life can lead to unexpected failure of the components. This can lead to falls and serious injury.

2. The vehicle is subject to wear and high stress as are all other mechanical components. Depending on the degree of stress imposed on them, different materials and parts may react differently in terms of wear and fatigue. A part may suddenly fail and cause injuries to the driver when its designed service life is exceeded. Any kind of cracks, scratches or colour changes in high-stress areas are an indicator that the service life of the component has been exceeded and that it should be replaced. This is especially true for FLYER bikes with a carbon frame. Damage on a carbon frame is not always visible. If your FLYER bike with a carbon frame falls over or sustains damage during transport, have the carbon frame inspected by your FLYER dealer.



1. It is essential to have your FLYER checked by a FLYER specialist retailer after a fall or when your FLYER has fallen over! Many components cannot be safely repaired and components may be damaged in a way that you cannot recognise.
2. Do not forget to take a high-quality bike lock with you on the ride so you can park and lock your FLYER to an immovable object. Separately lock the components that are fastened with quick release fasteners (e.g. the front wheel) as required. This will prevent theft of these add-on parts.

11. After a fall

Have the vehicle and all components checked for changes, damage, firm attachment and correct function by a FLYER specialist retailer. This may, in particular, include dents and cracks in the frame and fork, bent components and parts such as the handlebars or a shifted or turned seat. Inspection by a FLYER specialist retailer must cover the following main points:

- Carefully check the frame and fork. Deformations can usually be detected when looking at surfaces from different angles. This is especially true for FLYER bikes with a carbon frame.

Damage on a carbon frame is not always visible. If your bike is involved in a crash or accident, have the carbon frame inspected by your FLYER dealer.

- Are the seat, seat post, stem and handlebars still in their correct positions? When this is not the case, do NOT move the components back from their changed position before loosening the relevant screw connection. It is essential to adhere to the prescribed fastening torque. Values and information are provided in the “Technical Data” and in the “Quick release fastener” chapter (12.1).
- Check whether both wheels are correctly and firmly attached to the frame and fork, that both the front and rear wheels rotate freely and that the rim runs straight past the brakes without snagging. The tyres must not touch the brakes.
- Check that both brakes are operating fully.
- Do not set off again without having checked that the chain is sitting securely on both the front chain wheel and rear sprockets. It must be engaged fully with the cogs. If you set off and the chain jumps off a cog you may fall, at the risk of very severe injury.
- Check whether the display of the FLYER e-bike shows a fault message or a warning. Do not drive your FLYER when a warning is displayed. Immediately contact your FLYER specialist retailer.
- Check that the display and the battery are undamaged. Do not ride your FLYER if there are any noticeable changes (cracks, scratches, etc.). Have all parts and functions first checked by your FLYER specialist retailer.

If you notice any changes to your bicycle, DO NOT continue cycling. Do not retighten any loose parts without first checking them and always use a torque wrench. Take the FLYER to your FLYER specialist retailer, describe the fall to them and have the bicycle checked out!



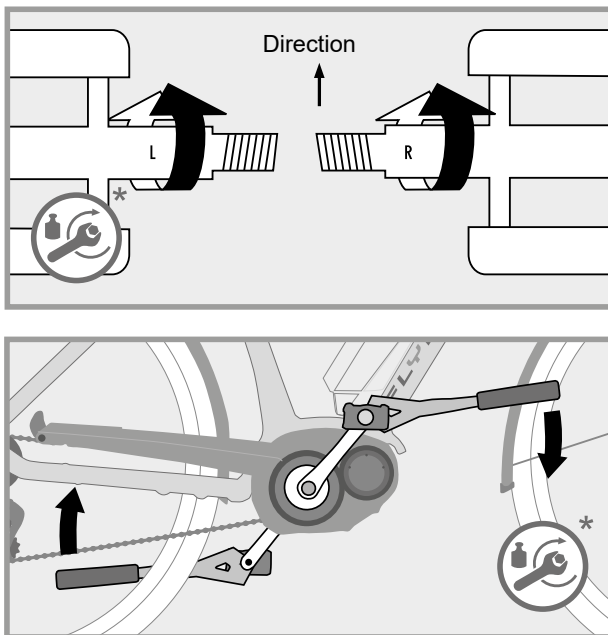
There is a risk that humidity or water may penetrate the motor if the housing of your battery is cracked. This may lead to short circuits or electrical shocks. Immediately stop using the battery in this case and contact your FLYER specialist retailer. Do not charge the battery.

12. Adjusting the bike to the rider

Installing pedals

Always have your pedals installed or changed by your FLYER specialist retailer, and feel free to ask

for advice the correct handling. Pedals must be installed with a suitable spanner. Please note that the two pedals are screwed on in different directions and must be fastened with high torque (see "Technical Data"). Apply assembly grease to both threads.



Please take note that the right pedal is different from the left. You can recognise which pedal belongs on which side from the screws which turn in opposite directions. Usually, an "R" is embossed on the right pedal with an "L" on the left. Screw the right pedal clockwise and the left pedal anti-clockwise into the cranks.



1. The pedals must be fastened with a suitable spanner. Adhere to the correct fastening torque when screwing on the pedals, see "Technical Data". Ensure that the pedals are fitted straight. If they are fitted at an angle, there is a danger of breaking and of having a fall!
2. We advise against the use of pedals with hooks and straps. Tightened straps will NOT release your feet. Inadequate tyres can result in falling over and injury.
3. Ensure that you have read the manufacturer's instructions before using magnetic or clipless pedals. Practise clipping your shoes in and out of the pedals' locking system before your first ride in a quiet, safe place. Clipless pedals which do not properly release are a safety hazard.



The release force of system pedals can be adjusted. Please test this on your first ride with a setting that releases easily. Regularly clean the system pedals and service them with a suitable lubricant.

12.1 Operating quick releases and axles

The wheels, seat post, seat, stem and handlebars may be attached with quick release fasteners, quick release axles or screw connections.



Only allow your FLYER specialist retailer to perform work on quick release fasteners and quick release axles. These are components which are crucial for your safety, so incorrect work and tools in this area of the bicycle could lead to serious falls.

Quick release

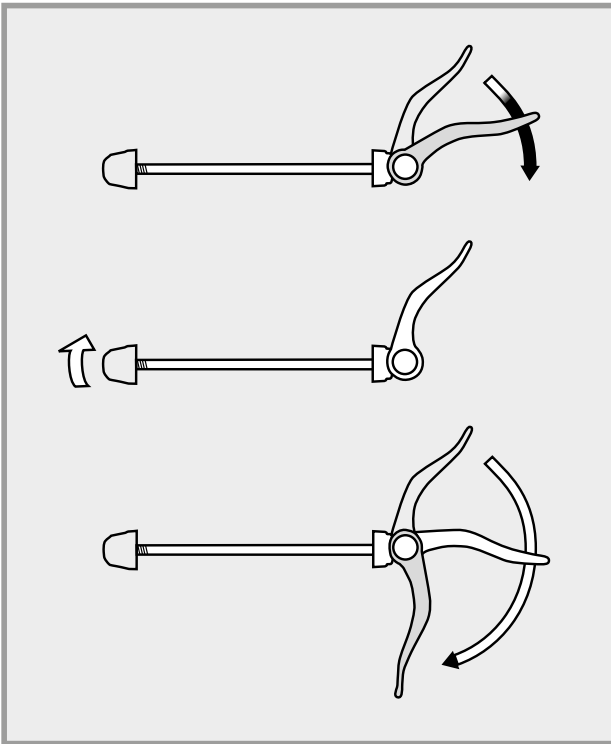
Quick releases are clamping brackets which attach components like a screw, however their clamping force stems from tightening the lever without tools. The clamping force is activated by closing the lever. The clamping force is adjusted by turning the counter nut when the lever is open.

1. In order to open a quick release, to adjust the seat post for example, open the quick release lever.
2. Now you can move and adjust the seat post. The clip on the seat tube opening must not be closed when the seat post is removed from a FLYER with a carbon frame.
3. The quick release fastener must be closed before using the FLYER. Completely fold down the quick release lever for that purpose. Fully engage any possible quick release levers.

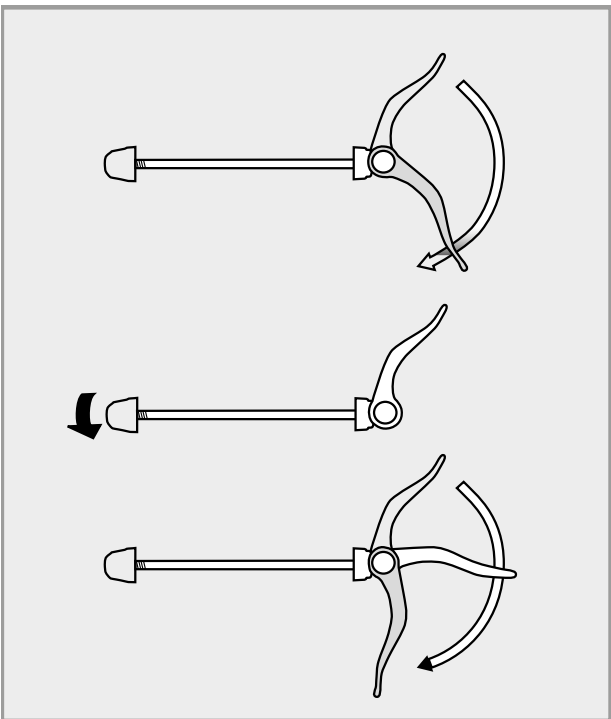


The quick release is only securely closed when you need the power of the ball of your hand to close the lever.

The adjustment nut of the quick release fastener must be tightened when the tightening force is not high enough, e.g. when the seat does not stay in position. To do this, the quick release lever must be open.



Loosening the Adjusting Nut



Tightening the Adjusting Nut

The quick release fastener cannot be closed when the tightening force is too high. Open the clamping lever in this case and slightly loosen the adjustment nut.



1. All quick release skewers must be firmly closed before you set off.
2. Check all quick release fasteners for correct attachment if the vehicle was parked even for a short time without supervision and before every ride.
3. A closed quick release fastener must be folded close to the frame, fork or seat post.

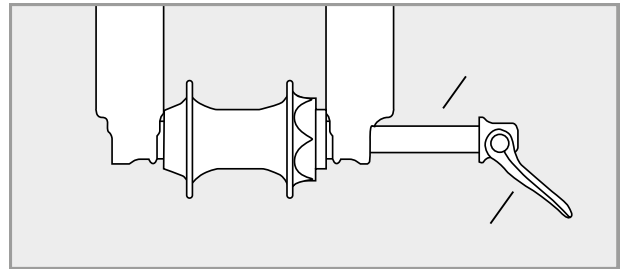


Lock down wheels or other parts of your vehicle that are attached with quick release fasteners when you park your bicycle.

Quick release axes

The current chassis is either equipped with quick release fasteners, screw connectors or quick release axes that work in the same way as quick release fasteners:

The axle is screwed into the dropout and holds the hub between the fork legs. The hub and the axle are fastened with a quick release lever. Systems in which the axle is only inserted or screwed in and then fastened with a screw also exist. Refer to the attached component manufacturer instructions and allow your FLYER specialist retailer to explain the system to you in detail.

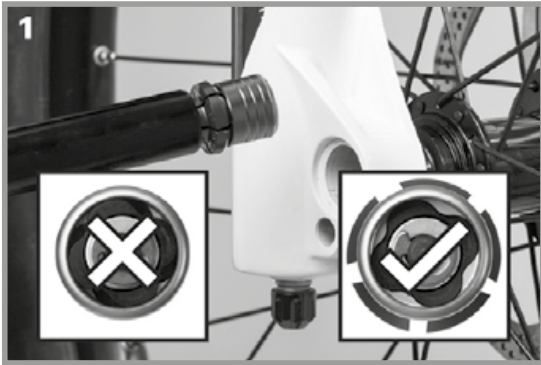


Ask your FLYER specialist retailer to explain in detail how the wheels and all relevant parts are to be correctly and safely attached using the quick release fastener or quick release axle system installed.

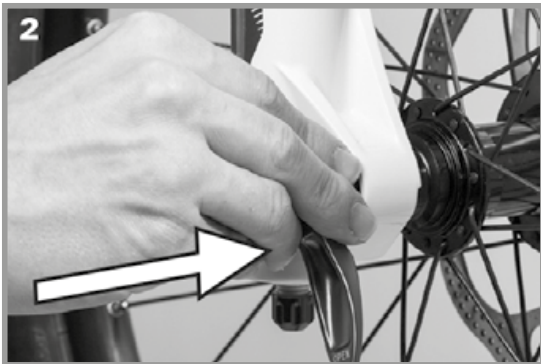
Suntour Q-Loc axle

Installation

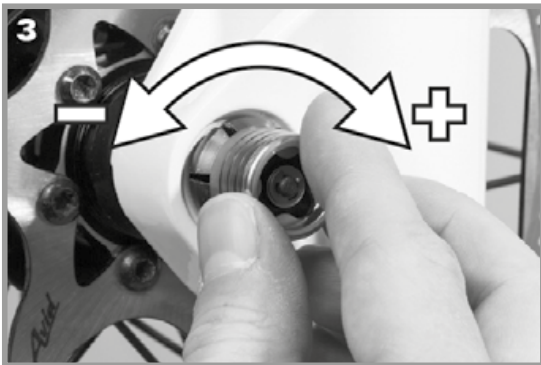
1. Check the flange and open the lever fully before installation



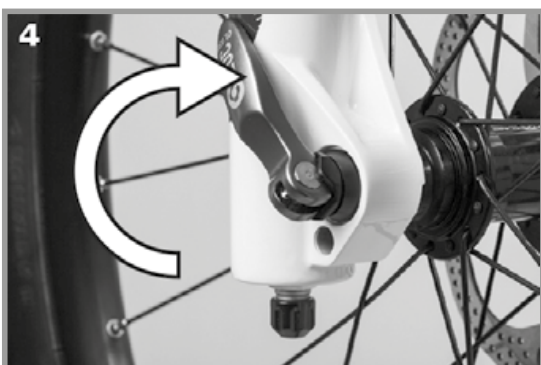
2. Push in the axle until it clicks



3. Adjust the tension with the lever half open until the flange fits closely

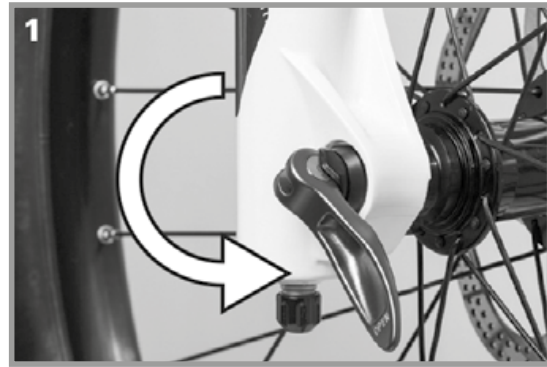


4. Close the lever fully. Check the fit and retighten if necessary

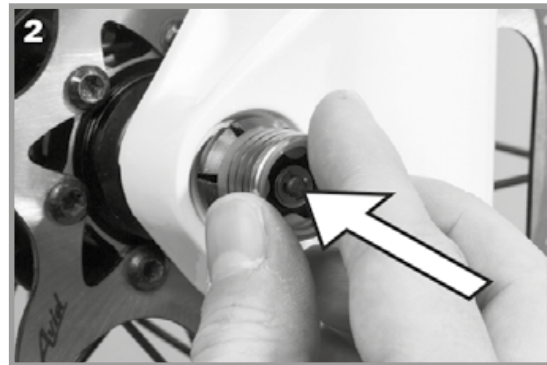


Removal

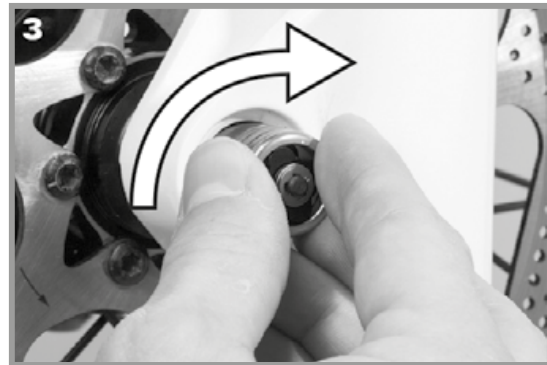
1. Open the lever fully



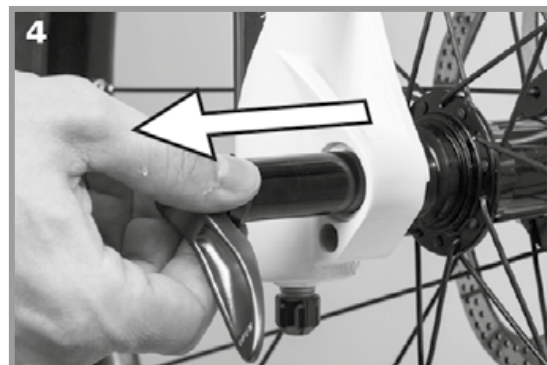
2. Push the nut until the flange retracts



3. Turn the nut clockwise until the flange remains locked in place



4. Pull out the axle





1. Inappropriately installed wheels may shift while you are driving or detach from the vehicle. This may damage the vehicle and lead to severe or life-threatening injuries to the driver. It is therefore important to take note of the following instructions: Ensure that the axle, the dropouts and quick release mechanisms are free of dirt. Take care that they are correctly attached at all times. Contact your FLYER specialist retailer and have your vehicle checked when you are not sure.
2. Check that all quick release fasteners and quick release axles are firmly attached, even if your FLYER only remained unsupervised for a short time. You may only start driving when all quick release fasteners are firmly closed.

12.2 Setting up the seating position

The seat, handlebars and stem must be adjusted to your body mass and the desired sitting position in order to use your FLYER safely and comfortably.



Only allow FLYER specialists to work on your handlebars and stem. These are components which are crucial for your safety, so incorrect work and tools in this area of the bicycle could lead to serious falls.



The seat and stem can be attached with screw connections or quick releases. Always secure screw connections with the correct torque, see "Technical Data". The torque value must not be exceeded in any way, in particular where carbon parts are used. Use carbon paste to help reduce the torque while ensuring a secure connection. Never use conventional grease to lubricate carbon parts. The clip on the seat tube opening must not be closed when the seat post is removed from a FLYER with a carbon frame.

Seat height

In order to transfer the pedal force effectively to the pedals, you must set your seat to the appropriate height.

Find the ideal position by sitting on the FLYER and placing the heel of your foot onto the pedal in its lowest position.

Now the bottom leg should be stretched. If this is not the case, dismount, adjust the seat in the required direction and try again.

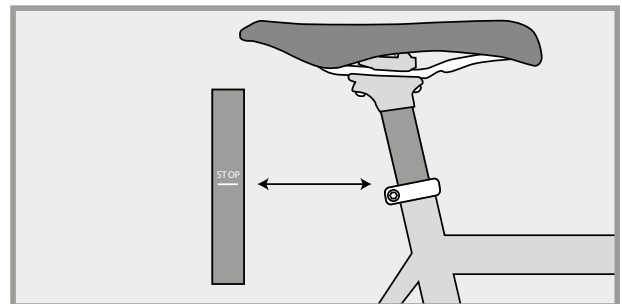
Ensure that the quick release fastener is completely closed after the adjustment process.

The torque value must not be exceeded in any way, in particular where carbon parts are used. Use carbon paste to help reduce the torque while ensuring a secure connection. Never use conventional grease to lubricate carbon parts.

The clip on the seat tube opening must not be closed when the seat post is removed from a FLYER with a carbon frame.



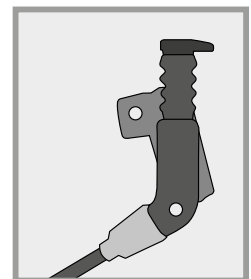
1. There are markings on the seat post which show how far it can be pulled out of the frame. Never pull the seat post beyond the maximum length marking. Otherwise the seat post may buckle or break. If you require a longer seat post to reach the correct sitting position, talk to your FLYER specialist retailer. Never ride with a seat post extended further than the maximum marker as this could result in serious falls and injury.
2. Children and persons who are not confident cyclists should be able to touch the ground with the tips of both feet. Otherwise, when stopping they run the risk of falling and suffering serious injury.



Telescoping seat post

FLYER Uproc models can be supplied ex works with a height-adjustable seat post. This allows the seat height to be lowered or adjusted rapidly and safely in difficult terrain, for example before big drops.

The height of the seat can be lowered by operating the switch on the handlebars while pushing down on the seat. If you want to return to your normal riding position, simply operate the handlebar switch and briefly remove any load pushing down on the seat. The support then resets the seat to its usual height.





It is essential that you read the part manufacturer's operating manual when setting up and operating suspension seat posts and telescopic seat posts.

FLYER MT171 seat post

If your FLYER E-MTB is fitted with a MT171 adjustable seat post, please note the following points. The FLYER MT171 allows you to cycle efficiently and tackle technically demanding routes.

Safety precautions

Please read the user manual carefully before assembling and using the FLYER MT171 seat post. Failure to follow the instructions may lead to severe injuries or death.

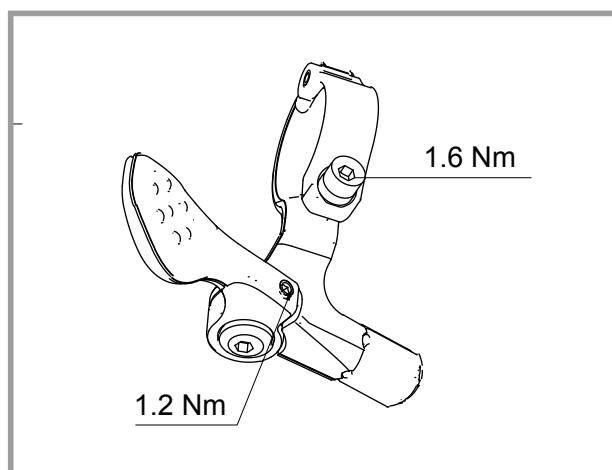
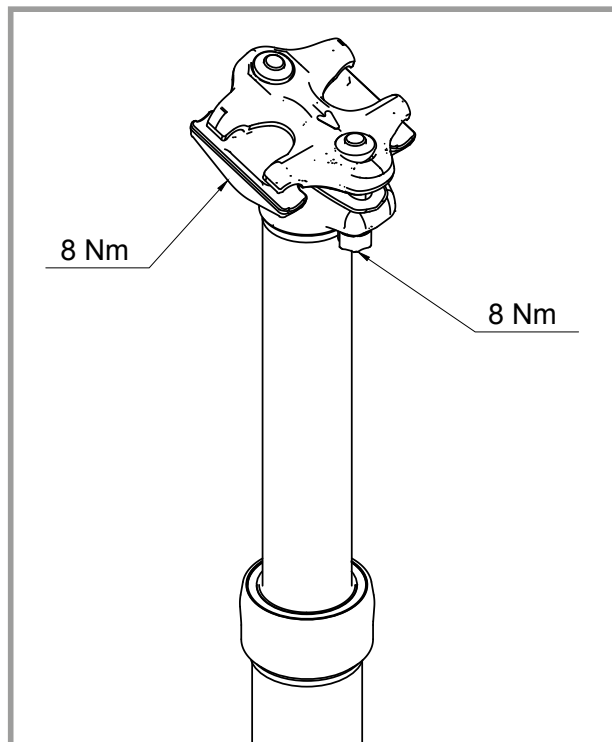
1. Adjusting the height of the seat post during the ride may cause you to lose control of the seat post.

2. Never ride on a modified or excessively worn FLYER MT171 seat post. Do not modify the FLYER MT171; any modifications will result in the warranty being cancelled and may cause invisible damage to and/or faults in the seat post.

3. Loose, overly tightened, damaged or worn parts may cause unexpected faults. Check the seat post regularly for wear or damage. If there are signs of wear, cracks or dents in the seat post or parts of it, stop using the seat post straight away and contact an authorised FLYER dealer to inspect, repair or replace the parts.

4. Before setting off, please make sure that all of the screws in the FLYER MT171 seat post are properly fastened to the recommended tightening torque.

5. Fastening the seat post clamps too tightly affects whether you can adjust the seat post height; you can find the recommended tightening torque on the seat post clamp or in the technical data.



Using the seat post



Do not cycle if the seat post height cannot be adjusted properly.



Adjusting the height of the seat post during the ride may cause you to lose control of the seat post.

To lower the seat: press the remote lever and press or sit at the desired height and release the lever.

To raise the seat: take your weight off the saddle and press the remote lever until the seat reaches the desired height. Release the lever.

Seat position

The horizontal position of the seat can and should be set too.

You are in the optimal driving position when your front knee is directly above the pedal while the crank is horizontally aligned.

The horizontal adjustment of the seat may only be performed within the markers and within the range specified by the manufacturer.



Test whether the seat post and the seat are firmly attached before you drive off. To do this, hold the seat at the front and back and attempt to turn it. It should not move.

Height of the handlebars

Once the seat has been firmly and comfortably positioned, the handlebars must be adjusted to your needs.

An effective starting position for relaxed riding is offered by a seating position in which the upper body and arm form a 90° angle. In order to change the height of the handlebars, the height of the stem must be adjusted.

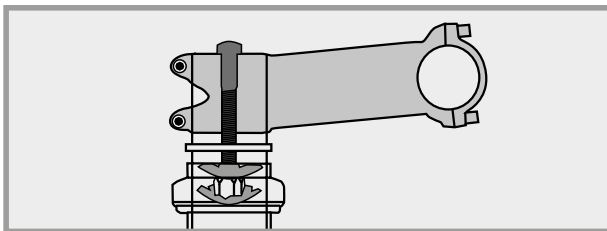


Allow your FLYER specialist retailer to adjust the settings of the handlebars and the stem.

Adjusting the stem



You are strongly advised to read the manufacturer's instruction manual. Only allow FLYER specialists to work on your handlebars and stem!



Changing the position of the stem also changes the position of the handlebars. You should always be able to safely reach and use grips and controls. Handles with a pronounced wing shape may need to be repositioned.

Make sure that all cables and leads have a sufficient length to allow for all possible steering movements when changing the handlebar and stem position.

12.3 Setting up the brake levers

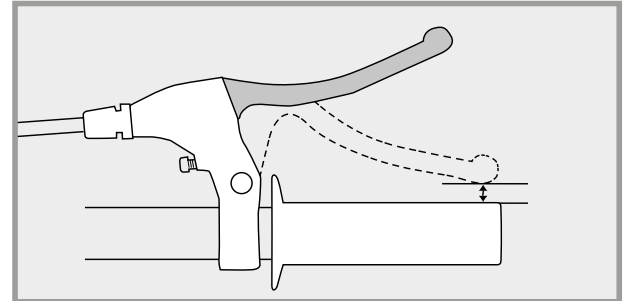


The brake lever must be adjusted in such a way that the hands remain parallel to the arms and they can press the brake lever without have to exert any strenuous effort.



Check before your first drive which brake lever brakes which wheel.

Some models allow adjustment of the grip width so that brake levers can also be safely gripped by smaller hands. Always have brake adjustments performed by a FLYER specialist retailer as they concern safety-related components.



The brake levers must be adjusted to ensure that they do not touch the handlebars, even when they are pulled hard.

EN

12.4 Suspension elements

The chassis must be adjusted to the driver's weight and type of use by a FLYER specialist retailer to ensure appropriate function of the suspension elements.

The suspension elements must be matched to each other in accordance with the manufacturer's instructions. Basically, it can be stated that when cycling over bumps, while the suspension element can be clearly seen to operate, it should not reach the end of its travel. With the rider standing centrally on the bike, the suspension element should be compressed to about 25% of its travel.



Please note that the suspension may need be reset if you ride with heavier loads, for example during a cycle tour.

If you have purchased a FLYER E-MTB with full suspension, the rear frame assembly is moveable and is sprung and damped by a shock absorber. The suspension system uses an air chamber. The damping, which regulates the speed of compression and stretching, can be adjusted with the shock absorbers installed.

Instructions for setting the suspension elements

The suspension elements (suspension fork and rear shock absorber) can be adjusted for your weight, riding style and terrain. When adjusting the suspension, make only one change at a time and take a note of it. This will let you establish the exact effect of each change on the bicycle's handling characteristics.

The description can be used for both the suspension fork and the rear shock absorber. If an instruction applies for only one of the two components, this is noted.

In this section, the air springs' basic tuning will be described. There are two tuning options – the spring rate of the suspension and the rebound of the shock absorber.



Contact a FLYER dealer who will inform you about the correct settings for the suspension elements. A table showing all of the setting recommendations for the coil springs can be found on this website: www.FLYER-bikes.com/manuals

Sag



The suspension elements are provided with a lockout to be used when required on steep asphalt rises to suppress spring compression and bobbing up and down. The following adjustment operations can only be undertaken with the lockout open.

“Sag” is the distance by which the suspension element is compressed when the rider is positioned centrally on the bike. The sag preloads the suspension element and keeps the rear wheel on the ground under light load and over slight bumps. This improves grip on the ground and traction on rough terrain.

As a rule, sag accounts for 25% of the available overall suspension travel.

To set the sag for your suspension element properly, you must first set the suspension hardness/air pressure. Adjusting the air pressure also changes the overall stiffness of the suspension element. The more you pump up the suspension element the harder it becomes. To set the suspension element optimally between the sag



recommended by the manufacturer and the desired stiffness, observe the following setting instructions:

Adjusting sag

Ensure that the pressure levels at the fork and shock absorber are open, i.e. set to the “Open” position.

Inflate the air chamber of the damper as described in the table. To deflate the air chamber, first unscrew the valve cap. Now you can either press the air valve down or press the air-release lever on the air pump.



The air pressure in the rear suspension element must not exceed the maximum value stated in the associated operating instructions.

On some forks, recommended air pressure values are stated.

1. Other air pressures or settings may be required. Example: Different riding styles and uses call for a different air pressure and a different level of sag. Accordingly, this adjustment procedure serves only as a starting point.
2. The valve cap on the suspension element must always be fitted when riding, to prevent any dirt from entering the valve.

Push the 0-ring for the suspension travel indicator against the air chamber/the forks lower legs.

Carefully position yourself centrally on the bike and then dismount.

Important: if you place too great a load on the bike when getting on and off, you will obtain incorrect measurement values.

Check the position of the 0-ring on the suspension element's housing. Check that sag is in the 25% range.

If sag is lower than the value recommended by the bicycle manufacturer, i.e. the suspension element is compressed by less than 25%, you should reduce the air pressure. If sag is greater than the value recommended by the bicycle manufacturer, you should increase the air pressure. The air pressure in the rear shock absorber must not exceed the maximum value stated in the associated operating instructions. Refit the air cap.

Adjustable rebound

The rebound governs the speed at which the suspension element is fully extended again after compression. The suspension elements are provided with a red rebound adjuster, which is used to set the desired rebound. The suspension element springs back out most rapidly when the adjuster knob is turned out anti-clockwise to the end of its travel. It springs back out most slowly when the knob is turned in clockwise to the end of its travel.

Setting rebound

The starting point for setting rebound can be determined at a kerb.



Before proceeding to set suspension rebound, you must first have set the sag in the suspension.



Carry out this test in a safe area away from traffic!

Turn out the rebound adjuster anti-clockwise to the end of its travel.

Ride down over a kerb, remaining sitting on the seat. Count the number of times the suspension element springs back. The suspension element should be adjusted so that it only springs back once. If the suspension element springs back more than once, turn the rebound adjuster one click clockwise. Ride down over the kerb again and count again how often the suspension element springs back. Repeat this step until the suspension element only springs back once.

Take a note of how many clicks (or turns) you bring the adjuster out anti-clockwise from the end of its travel. This is your rebound setting.

For a suspension fork with correctly set rebound, the front wheel must not lift off the ground when the fork is compressed with the cycle at rest and then suddenly released. If in the course of this test the front wheel should lift off the ground, the rebound must be tightened one further click and the test repeated.



Suspension and chassis components are vital parts of your FLYER. Service and check your FLYER suspension at regular intervals. Have your FLYER inspected by your FLYER specialist retailer at regular intervals. The chassis will be more effective and last longer if it is cleaned on a regular basis. Warm water with a light cleaning agent is suitable for cleaning this part of the bicycle.



Full suspension bicycles are not suitable for use with trailers and child bike trailers! The bearings and mounts are not designed to withstand this sort of force. This could result in strong wear and breaks with serious consequences.

13. Wheels and tyres

The wheels are subject to a great deal of strain through the uneven characteristics of the ground and the weight of the rider.

- After the first 200 kilometres, the wheels must be checked by a specialist and re-centred if necessary.
- The tension of the spokes must be checked at regular intervals. Loose or damaged spokes must be retightened or replaced by a FLYER specialist retailer.

13.1 Checking the rims



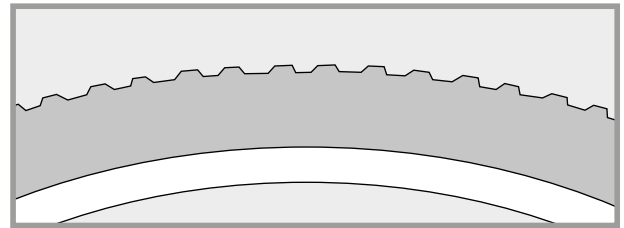
The stability of the rim is reduced if it is exposed to a severe load, e.g. when used off-road, and its susceptibility to

damage is increased. A bent, torn or broken rim may lead to major accidents and severe falls. Do not continue to use your FLYER if you notice damage to one of the rims. Please allow a FLYER specialised retailer to check the rims.

13.2 Tyres and inner tubes



You should only replace damaged parts with original spare parts.



Tires, like many other parts, are subject to wear and tear. Check the profile depth, tyre pressure and state of the lateral tyre surfaces at regular intervals and take note of signs of brittleness or wear.



Do not exceed the maximum tyre pressure recommended when inflating the tyres. Otherwise this could lead to a tyre exploding. The tyres must be pumped up with at least the stated minimum tyre pressure. The tyre might detach from the rim if the tyre pressure is too low.

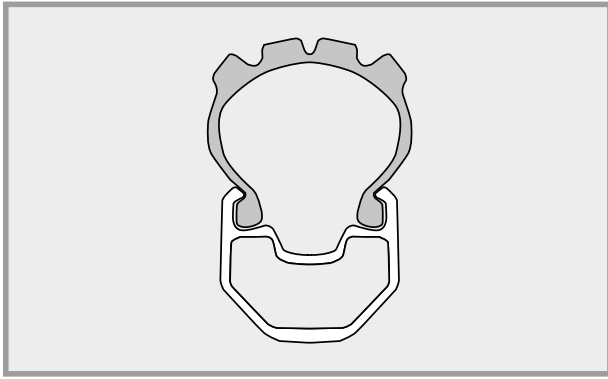
The values for the permitted maximum and minimum pressure are imprinted on the lateral tyre surface. Do not exceed the maximum pressure permitted.

Tyres may only be changed for identical, original tyres. The bicycle's handling could otherwise be negatively affected. This may lead to accidents.

Slaverand valves are used on your FLYER E-MTB. It is a simple matter to measure tyre pressure by fitting a pressure gauge to the open valve. Tubes may only be changed for identical, original tubes.

Tubeless Ready Tyres

To ensure optimum riding at all times, even off-road, FLYER MTBs are fitted with tubeless-ready tyres. You enjoy the benefits of simple, tried-and-tested handling, e.g. in the case of an inner tube repair, but if you want you can also exploit the better riding characteristics of tubeless tyres. The outer tyre covers supplied ex works are ready for tubeless use along with a rim sealant. With this simple conversion which you should have undertaken by your FLYER dealer, you can then enjoy the benefits of improved traction in off-road use and greater protection from punctures.



Tubeless tyres must only be mounted and removed from the rims without tools, otherwise this could lead to leaks. If the sealant is not sufficient for preventing damage, a normal tube can be used after removing the valve from the tubeless system.

13.3 Dealing with a flat tyre

Correct and safe repair of a flat tyre requires specialised e-bike knowledge and special tools. Have technical defects and flat tyres exclusively repaired by your FLYER specialist retailer.



Repairing a tire puncture involves having to adjust safety-relevant components. Incorrect mounting of the wheels and brakes can lead to severe falls and injuries. We strongly advise you not to repair a tire puncture alone. Ask your FLYER retailer to fix the tire puncture for you.



Get thorough instructions from your FLYER specialist dealer and practise changing the wheels and tyres under their supervision if you plan to repair your own flat tyres. The system must be switched off and the battery must be removed before changing a tyre or wheel.

You need the following equipment to repair a tire puncture:

- Plastic tire lever
- Patches
- Rubber cement
- Sandpaper
- Open-ended spanner or wrench (for wheels without quick release skewers)
- Air pump
- Spare tube

Your FLYER is equipped with a disc brake. This way, you can remove the wheel without doing any further preparation.

Please note: when fitting the wheel, the disk must be slotted between the brake linings of the brake calliper and ultimately be centred without contact.

1. Removing the wheel

- If your FLYER is equipped with a quick-release lever or a thru axel, open them.
- If your bike has hexagonal bolts, then loosen them in anti-clockwise direction with a fitting ring spanner or box-end wrench.

You can then remove the front wheel according to the steps listed above.

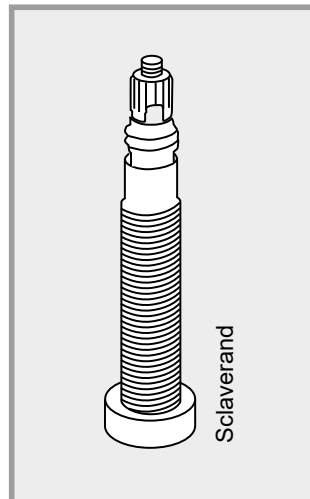
The following applies for rear wheels:



Source: Shimano® techdocs

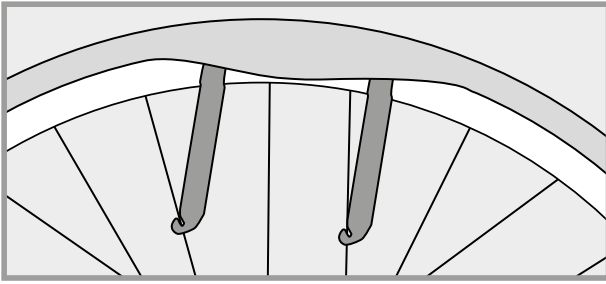
- If your FLYER uses a derailleur gear system, change gear to the smallest sprocket. In this position, the rear derailleur poses the least hindrance in removing the wheel.
- If your FLYER is equipped with a quick-release lever or a thru axel, open them.
- If your FLYER has hex nuts, loosen these with a suitable spanner anti-clockwise.
- Pull the rear derailleur backwards somewhat.
- Lift the bike slightly.
- Lightly strike the wheel from above with the palm of the hand.
- Take the wheel out of the frame.
-

Types of valve on bicycle tubes



2. Removing the tyre and inner tube

- Unscrew the valve cap, the fastening nut and possibly the cap nut from the valve.
- Release all of the remaining air from the inner tube.
- Insert the tyre lever opposite the valve on the inside of the tyre.
- Insert the second tyre lever approx. 10 cm from the first, between the rim and tyre. Lift the tyre bead over the edge of the rim.
- Repeat this lifting action around the wheel until the entire tyre is free.
- Remove the inner tube from the tyre.



3. Change the inner tube

Switch the inner tube for an intact one.

i Tubular tires and tubeless tires must be changed according to the tires and rims' manufacturer's instructions.

4. Reassembling the tyre and inner tube

i Please avoid allowing foreign bodies inside the tyre. Ensure that the inner tube does not have any folds and is not squashed.
Ensure that the rim tape covers all spoke nipples and does not have any damage.

- Place one edge of the rim into the tyre.
- Push one side of the tyre completely into the rim.
- Insert the valve through the valve hole in the rim and put the inner tube into the tyre.
- Pull the second side of the tyre into the rim with the balls of your hands.
- Ensure that the inner tube is correctly positioned.
- Pump the inner tube up somewhat.
- Check that the tyre is properly in place and runs true using the control ring on the side of the tyre. Adjust the positioning of the tyre with your hand if it does not quite run true.
- Pump the inner tube up to the recommended tyre pressure.

i Please take note of the running direction of the tyre when installing it.

5. Reattaching the wheel

Reattach the wheel securely back in the frame or fork with the corresponding quick release, bolted connection or full floating axle mechanism.

i If your bicycle has disc brakes, please ensure that the brake discs are correctly secured between the brake pads!

Read the gear manufacturer's instructions to correctly and safely assemble and set up derailleur gear systems.



Tighten all screws to the recommended torque. Failing to do so could cause the screws to tear and components to come apart.

- Check if the brake pads are aligned with the brake surfaces.
- Securely attach the brake arm.
- Test the brakes.

14. Bicycle Gears



Ask for detailed instructions regarding the operation and the special features of the e-bike's gear system from your FLYER specialist retailer, even if you are an experienced cyclist. Practise on an even and safe terrain. If you have any questions about assembling, maintaining, setting up or operating the gears, please contact your FLYER specialist retailer. Read the operating instructions on the website of the respective manufacturer.



1. Despite a perfectly set up chain gear system, a bike chain crossing at an angle can lead to noises during riding. These noises are normal and do not cause any damage to the gear components.
2. Do not pedal backwards while changing gears, as this may damage the gear system.



Using faulty, incorrectly set-up or worn gear components is dangerous and can lead to falls. If you are concerned, have components checked and readjusted as required by a FLYER specialist retailer.

14.1 Electronic gear system

The electronic gear system differs from a mechanical system in, among other things, its maintenance and settings and its different programmable modes. To familiarise yourself with all of the possibilities offered by this gear system, approach your FLYER dealer for in-depth information. To be able to use and make the most of all of the advantages of this modern gear system, also read the enclosed operating instructions provided by the component manufacturer.

15. Bicycle chain and sprocket

Bicycle chain maintenance

Bike chains become worn with use. The degree of wear varies considerably. Have the chain of your FLYER regularly checked by your FLYER specialist retailer.

- Hub gears: approx. 3000 km
- Chain gears: 1500-2000 km

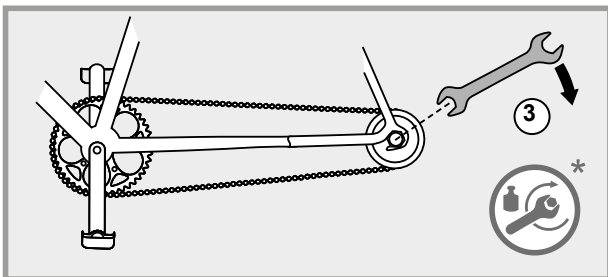
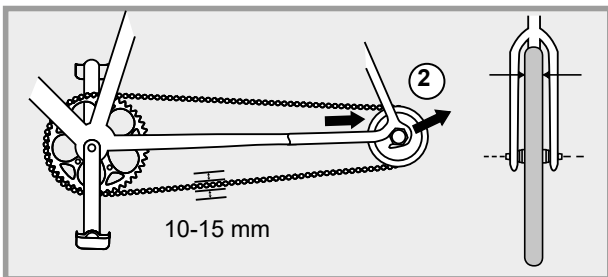
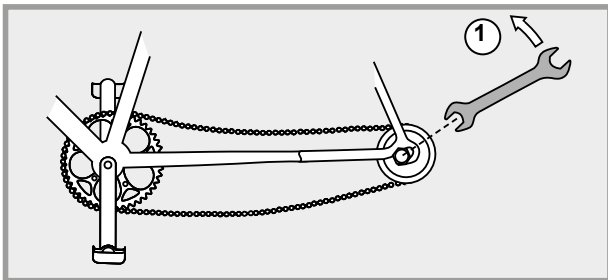


A worn bike chain can break and cause very serious falls. Worn bicycle chains must therefore immediately be changed by your FLYER specialist retailer.

Regularly care for your bicycle chain by cleaning and greasing it. These measures reduce premature wear.



To ensure that the chain and gears can work safely, the chain must have a certain level of tension. Chain gear systems tense the chain automatically. In the case of hub gears, chains which are too loose must be tightened. It might otherwise jump off the gears and lead to a fall.



The axle nuts and the brake anchor plate of back pedal brakes must be correctly fastened after each chain adjustment process.



The chain may only be tightened once the electrical system has been switched off and the battery has been removed. If the chain of your FLYER e-bike has fallen off the chain ring or sprocket, it is essential to switch off the electrical system and remove the battery before placing the chain back on the gear wheels.

16. Brake



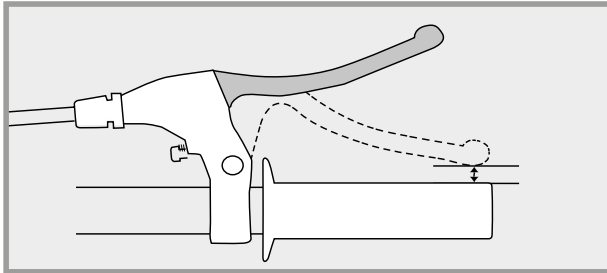
1. Brakes are safety components. Have the setting and maintenance work performed by your FLYER specialist retailer. Only original spare parts may be used. Otherwise it is possible that the functionality of your FLYER e-bike may be impacted or damaged. No modifications of the brake system are permitted.
2. The braking effect of modern brakes is very strong. You must get used to the braking performance of the new brakes. Activate the brake carefully. You should practise emergency braking in a safe, traffic-free area so that you can safely handle your FLYER even during very intense braking manoeuvres.
3. On long downward sloping sections you should not brake gently all the time as this can cause the brakes to overheat, thus causing braking performance to fade or fail altogether. Alternate between applying the front and back brake on long and steep downhill sections to allow the other brake to cool. It is preferable to brake sharply for a shorter time before taking bends or if you are riding too fast. This allows the brakes to cool down in the meantime. This preserves your braking power. The only exception is if you are cycling in slippery conditions such as on sand or a smooth surface. You should then exercise great care, slowing yourself down using the rear brake. Otherwise there is the risk of the front wheel slipping out to the side and causing a fall. Take regular breaks during long downhill sections to give the brakes sufficient time to cool down. Do not touch the brakes for at least 30 minutes after riding as they can become very hot.
4. Almost all modern brakes provide considerably more braking power than was available for bicycles in the past. Carefully familiarise yourself

with the brakes, practising using them and practise emergency braking, starting on safe ground with no traffic before setting out into the traffic. Look ahead while riding. Only use original replacement parts. Otherwise it is possible that the functionality of your FLYER e-bike may be impacted or damaged. Adjust the brake lever to ensure that it does not touch the handlebars when pulled hard.



Source: Shimano® techdocs

Have the brake disc replaced if it is worn out or bent. This replacement procedure must be carried out by a FLYER specialist retailer.



Only original spare parts may be used when changing the brakes.

Disc brake



Disc brakes must be installed and serviced by a FLYER specialist retailer. Incorrectly set up brakes can cause accidents and serious injuries.

A brake test is required before each drive and particularly after each brake adjustment. Braking behaviour may vary, in particular after exchanging the brake pads. Disc brakes require a bedding-in time to wear in the discs and pads. The brake does not deliver its full braking performance until after around 10 heavy braking operations undertaken at 30 km/h. The braking force increases during this time. Consider this during the entire duration of the wearing-in period.

This wearing-in period is also required after replacing the brake pads or discs.

Pay attention to any unusual noise when braking, as this could be a sign that the brake pads have worn down to the wear limit. Check the thickness of the brake pads once the brakes have cooled down. If necessary, have the brake pads replaced.



Please do not touch the brake disc while it is rotating. You can suffer serious injuries if your finger is caught in the gaps of a rotating disc brake. The brake calliper and disc may get hot during braking. You could suffer burns if you touch this part during or directly after braking.

Hydraulic brakes

It is possible that brake fluid may escape from the system due to leaky cables and connections. This can negatively impact the effectiveness of the brakes. Check the pipes and connections for tightness before each ride.

Do not ride with your FLYER if fluid is leaking from the braking system. Allow a FLYER specialist retailer to undertake repair work on this part immediately. The danger of your brakes failing in this condition is very high.



Formation of air bubbles: You can avoid this problem by applying the brake lever before transport and then fixing it in this position using a strap. This prevents any air from entering the hydraulic system. Please note that the brake lever may not be pulled when the wheel has been removed. Place a spacer between the brake pads if you need to remove the wheel.

Ask for detailed instructions regarding the operation and special features of the e-bike braking system from your FLYER specialist retailer, even if you are an experienced cyclist. Practise in a quiet, safe area with no traffic.

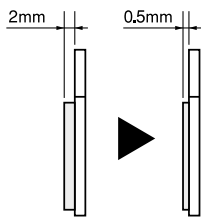
If you have any questions about assembling, setting up, servicing or operating this part of your bike, please contact a FLYER specialist retailer.



A trigger point should be clearly noticeable after approximately a third of the way when pulling the brake lever. Do not start to ride if the brake lever can be pulled up to the handlebars. In this case, the FLYER is not safe for operation. It is then essential to visit your FLYER specialist retailer and have the brake adjusted or repaired.



Especially brake discs wear. Have these safety-related components regularly checked for wear and changed as required by your FLYER specialist retailer.



Source: Shimano®
techdocs

If the brake system needs to be cleaned, contact your FLYER specialist retailer. The component manufacturer's instructions on how to clean the brake system are provided in the respective brake system manual. Only allow your FLYER specialist retailer to maintain the brake system and change individual brake system components. Only original spare parts may be used. Otherwise it is possible that the functionality of your FLYER e-bike may be impacted or damaged.

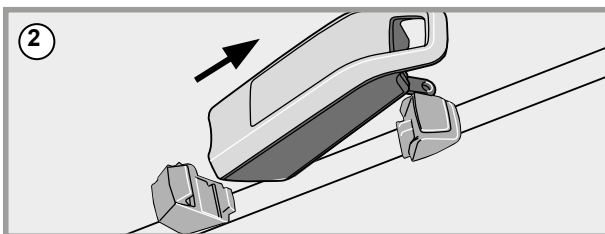
Have the brake pads regularly checked according to manufacturer specifications by your FLYER specialist retailer.



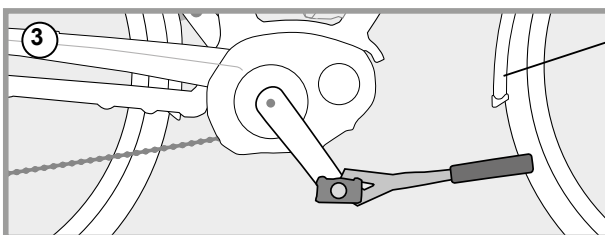
It is essential to switch off the electrical operating system and remove the battery before any form of maintenance work is carried out.



Switch off the operating system



Removing the battery

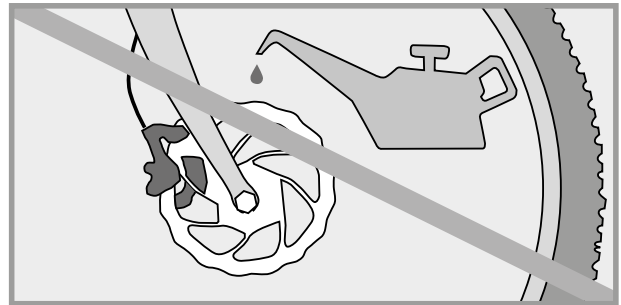


Performing maintenance work



1. Maintenance work on the brakes must be undertaken by a FLYER specialist. No oily liquids must ever be applied to brake pads or brake discs. These substances reduce the effectiveness of the brakes.

2. You may NOT ride if the brake pads or disc are tainted with grease. Dirty pads must be replaced and dirty brake discs must be cleaned.



17. Lighting system

Your FLYER e-bike's lighting system is usually powered by the battery. When the battery is empty, the lights should still work for about one hour. The headlight must be aligned to illuminate the road according to the legal regulations of your country.



Have the lighting system checked and, if necessary, replaced by your FLYER dealer if a fault occurs.

17.1 Light

Different lighting systems are installed depending on the area of use and bicycle type.

FLYER e-mountainbikes


If you have chosen to add the optional lights to your FLYER e-mountainbike, the settings are as follows:

Basic setting: when the system is activated, the light remains switched off. Light button functions: Activate the light by pressing the light button; switch between low and high beam (if available) by pressing the light button again. Switch off the light by pressing and holding the light button (at least 1 second). Switching between low beam/daytime running light: Automatic switching based on the integrated light sensor.

In their default factory configuration, FLYER Uproc e-mountainbikes are classified as sports equipment. They are not compliant with StVZO (the German regulations authorising the use of vehicles for road traffic) and therefore are not authorised for use on roads. If you wish to use your

FLYER e-mountainbike on public roads, you will need to ask your FLYER dealer to fit the necessary equipment (light, reflectors etc). Passive lighting (reflectors) is included with your purchase. Reflectors are no substitute for the necessary lights, but will significantly improve visibility at dawn and dusk.

When attaching the reflectors, please be aware of the following:


 Make sure that the reflectors are fitted correctly and that they are not covered by other components, clothes or accessories. Before every journey check that the reflectors are properly and securely fastened, clean and free of damage. Do not make modifications to the reflectors. Replace defective reflectors or have them repaired.


If you wish to use your FLYER mountain bike on public roads, you will need to ask your FLYER dealer to fit the necessary active equipment (headlight and rear light). Please read the following section 'General information on lights'.

FLYER crossover bikes

Basic settings: Switch off the light by pressing the light button. Switch the light back on by pressing the light button again. Switching between low beam/daytime running light: Automatic switching based on the integrated light sensor.

General information on lights:

 Clean your reflectors and headlight on a regular basis. Warm water with cleaning fluid or washing-up liquid is suitable here.


 The lighting system is a safety-related component and it is vital that it is in proper working condition. Check that it is working correctly and safely at regular intervals. Only allow authorised FLYER dealers to perform inspections and servicing work after failures or temporary problems!

18. Riding with additional load

Luggage carrier/riding with luggage

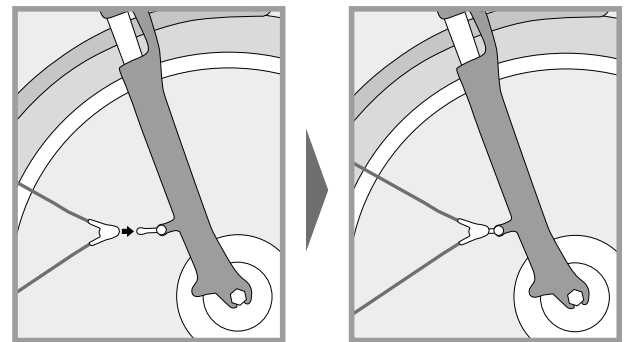
Transporting baggage changes the riding performance of your FLYER E-bike. Not only is the braking distance lengthened with more weight, the steering is also less responsive. You should

therefore adjust your riding style to the braking and steering behaviour of your FLYER, and always anticipate a longer braking distance. Only transport luggage on the approved luggage racks and ensure that the maximum permitted overall weight as well as the maximum load capacity of the luggage rack are not exceeded. These values may never be exceeded. Never attach a luggage rack to the seat post, as the latter is not designed for this purpose. This could result in part failure and serious falls. The manufacturer's warranty will also expire in this case.


 Make sure that your luggage is firmly and safely attached when transporting packing bags or other loads. Ensure that no parts can get hooked in the spokes or the turning wheels.

19. Mudguard

The mudguard is fitted with a safety fastening in case an object jams between the mudguard and the tyre. This releases the mudguard from its holder to prevent a fall.



You must stop riding immediately if a foreign body is trapped between the tyre and the mudguard. Remove the foreign object before beginning to ride again. Otherwise, there is a risk of a fall and serious injuries.

 You may under no circumstances drive with a loose mudguard strut, as the strut may jam in the wheel and block it. The loose ends of the holders may lead to serious accidents.

Damaged mudguards must be replaced by a FLYER specialist retailer before riding again. You should also regularly check whether the braces are fixed securely in the safety releases.

20. Accessories and equipment

Appropriate installation of accessories and checking their compatibility with the FLYER are the re-

sponsibility of the cyclist/buyer. Only accessories listed in the FLYER catalogue are approved for use with the FLYER by FLYER AG. Check the relevant accessories for compatibility with your FLYER model and consider their technical specifications (e.g. maximum load, installation instructions, etc.).



Always install accessories according to the regulations and instructions.

- Only use add-on parts that comply with the respective legal regulations and road traffic regulations.
- The use of unauthorised accessories may lead to accidents, severe falls and damage. You should therefore only use original accessories and add-on parts which fit your FLYER. The warranty and/ or guarantee can become void if unapproved accessories are used. FLYER AG cannot be held liable in connection with the use of unauthorised accessories.



1. Some FLYER E-MTBs are supplied without a kickstand. When parking your FLYER, always ensure it is propped up securely. In the event of an accident, the E-MTB or some of its important components might be damaged. The electrical system and the battery in particular must not be exposed to impact.
2. The installation of accessories might damage the paint work.
3. The frame, battery or components may not be changed and no holes may be drilled into them in order to attach accessories.

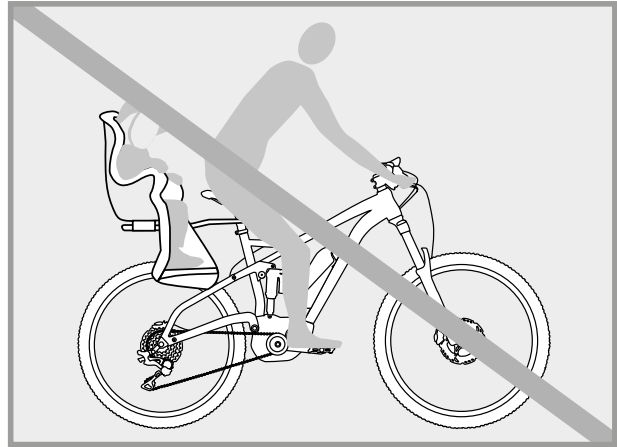
20.1 Riding with additional load

Luggage carrier | riding with luggage

FLYER E-MTBs are generally not approved for use with luggage racks. As an exception, certain models have a specially adapted FLYER luggage rack.

20.2 Carrying children

The safe transport of children is the responsibility of the cyclist. FLYER AG cannot be held liable in connection with the transport of children and the resulting risks. FLYER E-MTBs are not allowed to be ridden carrying a child seat.



Bicycle trailers and child trailers

Your FLYER e-MTB is not approved for use with a trailer.

20.3 Roof and rear carrier on a car



Only use rear carriers which satisfy the applicable national legislation for transporting your bike by car. The use of rear carriers may lead to accidents. Transporting or fixing the bike inappropriately could cause damage to your car, mount or E-MTB.



- Adjust your driving according to the weight of your rear carrier.
- When transporting your bike, you should check regularly that your FLYER e-bike is secure and safely fastened.
- If your FLYER falls out of the carrier, it can cause serious accidents.
- Avoid transporting your FLYER on the roof of a vehicle and always cover the motor with a rain protector cover to prevent it from becoming damaged. It is strongly recommended to cover the whole bicycle with a rain protector cover. FLYER bikes with a carbon frame must never be mounted on a car bike rack using standard frame clips, as these will damage the frame.
- Please note that loose parts, such as tools, luggage and tool bags, child seats, air pumps etc. could fall off during transport. This may put other people on the road at risk. All loose parts should therefore be removed from the FLYER before you start riding.
- A roof rack changes the total height of your vehicle.
- Pay close attention to the maximal load capacity if you transport your bike on the roof of a vehicle.



The brake lever may not be used when your bicycle is lying sideways, upside down or if a wheel has been removed. Otherwise air bubbles can enter the hydraulic system which could cause the brakes to fail. After transporting the bicycle, check if the pressure point of the brakes seems softer than before. Then apply the brakes slowly several times. This allows the braking system to discharge any bubbles. If the pressure point remains soft, please refrain from riding. A FLYER specialist retailer must discharge the air from the brake system.



You can avoid this problem by applying the brake lever before transport and then fixing it in this position using a strap. This prevents any air from entering the hydraulic system. Please note that the brake lever may not be pulled when the wheel has been removed. Place a spacer between the brake blocks if you need to remove the wheel.

- Do not transport your e-bike upside down. When securing the bike, ensure that no damage is caused to the fork or the frame.
- You may not attach your e-bike to the roof rack or rear carrier by its crank set. The e-bike must always be transported standing on its wheels. Non-compliance may result in damage to the e-bike.



When transporting the e-bike by car, the battery must be removed and transported separately.

- Make sure that the battery's contacts are safe from short circuiting.
- The motor and electrical components must be covered for transporting to avoid any moisture penetration.

The driver is responsible for transport by car in compliance with the applicable laws and regulations. FLYER AG cannot be held liable in connection with the transportation of the FLYER on roof or rear carriers.

Public transport

Obtain information regarding the local regulations when you intend to transport your e-bike on public transportation.

Aircraft

Obtain information regarding the legal guidelines if you intend to transport your FLYER by aircraft. Ask your airline.

21. Electrical motor

All information, data and instructions concerning the electrical system of your FLYER e-bike are included in the attached operating instructions for the electrical support system installed in your FLYER. They include details of the operation and maintenance, all important safety instructions and information concerning the following components:

- Operating element and display
- Battery and possible ranges
- Charger
- Drive unit
- Speed sensor and spoke magnet

Some general facts concerning the function and range of your FLYER's motor are listed below:

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Function:

The motor starts working as soon as you start pedalling when one of the support modes has been selected. The performance of the motor depends on several factors:

- **The power applied when pedalling**

If you pedal with less power, you are provided with less support than when you increase your pedalling power, i.e. when riding uphill. However, this increases the power consumption and decreases the range.

- **Support mode**

The higher the level of support, the more power the motor will provide. However, high motor performance means high power consumption. The lowest support mode provides the least support but also the longest range.

Range

Specified range information has been obtained under optimal conditions. Ranges achieved under everyday conditions will usually be shorter. Please consider this when planning your route.

The range depends on many factors. These include battery capacity, motor support level selected, geographical conditions, road surface, driving style, environmental temperature, the weight of the driver, tyre pressure and the technical state of your FLYER e-bike.

Driving without drive support

You can also drive your FLYER without drive support by selecting the «OFF» support mode. Ensure that your system is always switched on.



Never drive without a battery or with your system switched off, as the functions of the operating unit and the lighting functions are not available in this case.



Always remove the battery before cleaning, maintaining or repairing your e-bike. Ensure that you do not touch and thus possibly connect contacts when cleaning or maintaining the battery. You risk being hurt and the battery may suffer damage if the contacts are live. Do not use a high pressure water stream or a high pressure cleaner on your bike. The cleaning liquid may enter sealed bearings due to high pressure, dilute the lubricant and increase friction. As a result, rust is formed which destroys the bearings. Cleaning with a high-pressure cleaner may damage the electrical system.

4. When cleaning your FLYER e-bike, you should never apply acids, grease, oils, brake cleaners (with exception to the brake discs), and liquids containing solvents.

These damage the surfaces and contribute to wear on the FLYER.

After use, ensure that you dispose of the lubricant, cleaning and care products in an environmentally friendly way. These substances do not belong in domestic waste, in the drain or in natural environments. Smooth operation and durability of your FLYER e-bike depend on appropriate maintenance and care for your FLYER.

- Regularly clean your FLYER with warm water, small amounts of cleaning agent and a sponge.
- While cleaning the FLYER, always check your e-bike for cracks, notches or material deformities.
- Damaged parts must be changed with original spare parts. Please only ride your FLYER again after this check has been carried out.
- Have possible paint damage removed by your FLYER specialist retailer.

Further important information concerning care for your FLYER e-bike is provided on the website of your respective component manufacturer. This is especially true for FLYER bikes with a carbon frame. Damage on a carbon frame is not always visible. If your bike is involved in a crash or accident, have the carbon frame inspected by your FLYER dealer.

22. Wearing parts

Your FLYER is a technical product and therefore requires regular inspection.

Depending on the function and despite the degree of use, many parts on your FLYER are able to show signs of wear and tear.

This includes:

- Tyres
- Brake pads
- Brake discs
- Bicycle chains
- Chain wheels, sprockets, jockey wheels
- Handlebar grips
- Gear and brake cables
- Bearings
- Suspension elements



Have your FLYER regularly inspected in a FLYER specialised workshop and have wearing parts changed as required. Regular visual inspection for cracks, scratches and damage to components is the responsibility of the driver.



The bicycle is subject to wear and high stress as are all other mechanical components. Depending on the degree of stress imposed on them, different materials and parts may react differently in terms of wear and fatigue. A part may suddenly fail and cause injuries to the driver when its designed service life is exceeded. Any kind of cracks, scratches or colour changes in high-stress areas are an indicator that the service life of the component has been exceeded and that it should be replaced. This is especially true for FLYER bikes with a carbon frame. Damage on a carbon frame is not always visible. If your bike is involved in a crash or accident, have the carbon frame inspected by your FLYER dealer.

23. Inspection plan

After the first 200 ridden kilometres or after 4 months:

FLYER specialist retailer

- Check the firm attachment of all screws, nuts and quick release fasteners
- Check the wheels and centre them as required
- Check the tyres
- Check the fastening torque on all parts
- Adjust the headset
- Check the brake and shifter cables
- Check the gear system and adjust if necessary

- Check the brakes, adjust if necessary
- Check the suspension elements, adjust if necessary
- Sufficient lubrication of all components

FLYER driver

During your e-bike's first inspection by the FLYER specialist retailer, ask them to explain the correct processes for cleaning and oiling the chain after rain and checking components for function or damage.

Before each ride – FLYER driver

- Check the correct position of the bell
- Check the function of the brakes
- Check the function of the gear system
- Check the function and correct setting of suspension elements
- Are all quick release fasteners, quick release axles, screws and nuts completely closed and fastened?
- Check that the tyre pressure is correct
- Check the wheels for true running and damage as well as safe attachment and correct fastening
- Check that the handlebars, stem, seat post and seat are safely attached and correctly positioned
- Check the battery's charge status
- Check that the battery is correctly and securely attached.

After each ride – FLYER driver

- Cleaning the FLYER e-bike
- Visual inspection of the frame and of components for cracks and damage
- Check the tyres for damage, wear, brittleness, alien objects and sufficient profile depth
- Check the rims for wear and true running
- Check the tension of the spokes
- Clean the chain and sprockets as required and lubricate them with a suitable chain oil approved by the manufacturer
- If necessary, clean the brake discs with a suitable brake cleaner approved by the manufacturer
- Clean all bearings as required and lubricate them with suitable lubricant approved by the manufacturer
- Clean suspension elements as required and lubricate them with original lubricant approved by the suspension manufacturer
- Clean all moving parts for which lubrication is intended (especially quick release fasteners, quick release axles and the joints) as required and lubricate them with a suitable lubricant approved by the manufacturer

Allow your FLYER specialist retailer to instruct you.

After riding in rain, snow or wet conditions (in addition to the points under "After each ride")

FLYER driver

- Clean the chain and lubricate it with a suitable lubricant approved by the manufacturer
- Clean the brake
- Clean the gear system
- Check the sufficient lubrication of all components

Allow your FLYER specialist retailer to instruct you.

Monthly – FLYER driver

Check that all screws, nuts, quick release axles and quick release fasteners are firmly attached

Every year or after every 1000 km, whichever occurs first

FLYER specialist retailer

- Lubrication of all moving parts for which lubrication is intended (excluding brake surfaces)
- Visual inspection of the frame and of components for cracks and damage
- Mend paint damage
- Replace parts with rust spots
- Treat all bare metal parts (excluding brake surfaces) against corrosion (rust)
- Change defective or damaged parts
- Check the wheels and centre them as required
- Check the tension of the spokes
- Check and clean the chain/sprocket/cogset
- Lubricate the chain with a suitable lubricant
- Check the rim for wear
- Check the brake pads for wear
- Check that all screws, nuts, quick release axles and quick release fasteners are firmly attached
- Check the brake system and quick release axles and adjust it or replace parts if necessary
- Check the gear system and adjust or replace parts of it if necessary
- Check the hubs
- Check the headset
- Check the pedals



1. Only use cleaning agents and lubricants that are recommended or approved by the component manufacturer.
2. Please note that not all lubricants and care products are suitable for your FLYER. By using unsuitable lubricants or care products, you can damage or impact the functionality of your FLYER e-bike.



Ensure that the brake pads, brake discs and brake surfaces are not exposed to cleaning or servicing fluids or oils, as this reduces the performance of the brakes.

23.1 Maintenance work and exchange of wearing parts



1. Components to be changed may only be replaced with identical, original parts. Wearing parts may only be replaced with identical, original components.
2. Using any parts other than the original ones will immediately cause the manufacturer's liability for material defects and/ or the manufacturer's warranty service to become void. There is also an increased risk of accidents or falls.
3. The safe functioning of your FLYER can only be guaranteed with regular maintenance. Maintenance work may only be performed by FLYER specialist retailers.

24. General warranty

24.1 General dealer's warranty

End customers shall be entitled to exercise the standard warranty claims against the FLYER dealer (depending upon the agreement or applicable law; as a rule two years after delivery). For the battery, a residual capacity of 60 % of the original rated capacity after two years or 500 full charging cycles is guaranteed, provided that the battery has been operated and charged in accordance with the operating instructions. Normal wear and tear is generally not covered by the warranty. The end customer shall be responsible for ensuring that the FLYER e-bike is regularly maintained and cared for (including the conduct of all inspections according to the operating instructions). Warranty claims shall also be excluded in the event that the FLYER e-bike is modified or repaired independently or used other than for its intended purpose: racing and competition, commercial usage, overloading, and other use that does not reflect the intended purpose. The warranty period for used bicycles from FLYER dealers (second-hand bicycles) shall start from the date of purchase by the first buyer.

24.2 FLYER AG manufacturer's warranty

a. Warranties

Independently of the warranty rights towards FLYER dealers, FLYER AG provides the following warranty services to the end customer voluntarily from the date of purchase for new, fully assembled FLYER e-bikes for which final assembly and cali-

bration are carried out by a FLYER dealer recognised by FLYER AG:

FLYER Plus warranty

Frame: Five years for frame failure;

Motor, motor control unit, display, charger: generally two years for manufacturing defects and faulty materials;

Two years for the battery (residual capacity of at least 60 % after two years or 500 full charging cycles, depending on what is reached first; provided that the battery has been operated and charged in accordance with the operating instructions).

FLYER Premium warranty after registration*

Frame: Five years for frame failure;

Four years or 12,000 km (depending on what is reached first) for components and electronics;

Four years for the battery (residual capacity of at least 60 % after four years or 1000 full charging cycles, depending on what is reached first; provided that the battery has been operated and charged in accordance with the operating instructions)

*At the time of printing, it is not yet possible to conclude the FLYER Premium warranty due to technical reasons. Interested customers may sign up on the website www.flyer-bikes.com/en/warranty/premium-warranty by 31 December 2020 for registration at a later date. The Premium warranty shall apply from the date of purchase irrespective of the date of registration.

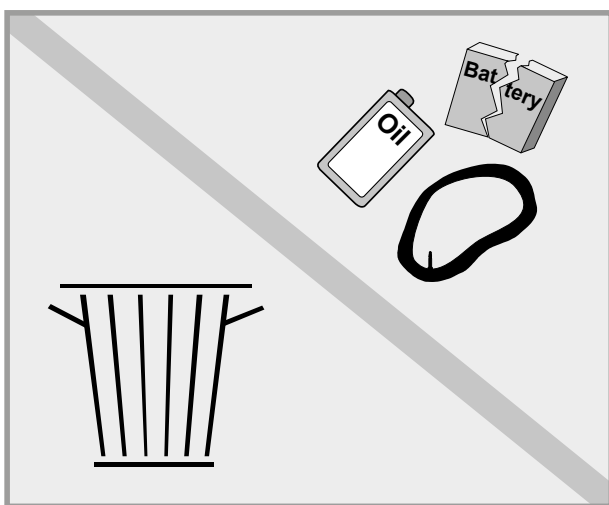
b. Processing and exclusion of claims under the warranty

During the warranty period, FLYER AG shall cover the costs of repair or replacement resulting from the product defects specified above, provided that such work is carried out by a FLYER dealer recognised by FLYER AG after the FLYER e-bike has been clearly identified (sales receipt, completed e-bike pass, or registration if applicable). FLYER AG reserves the right to supply or use functionally equivalent goods in the event of the exchange of a FLYER e-bike or of components under warranty. Claims made under this warranty do not extend the original period. The same warranty limitations apply as the warranty limitations listed under Point 1. The warranty shall not apply in cases of normal wear and tear, wearing parts, or misuse. Further information on the warranty conditions and on warranty exclusion are available from the FLYER dealer or on www.flyer-bikes.com/en/warranty.

25. Environmental protection tips

Please take the environment into account when caring for, cleaning or disposing of your FLYER e-bike. Use biologically degradable cleaning agents for maintenance and cleaning where possible and ensure that cleaning agents are not washed into the drain.

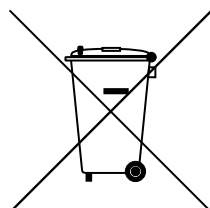
The complete vehicle, all components, lubrication and cleaning agents and particularly the battery (hazardous goods) must be disposed of in an appropriate way.



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The safe functioning of your FLYER e-bike can only be guaranteed with regular maintenance. Maintenance work may only be performed by FLYER specialist retailers.

The following symbol appears on the type plate of the FLYER e-bike and on the battery:



The symbol depicting a wheeled rubbish bin with a line through it means that the motor and battery must not be disposed of with household waste when they reach the end of their service life.

If electronic components are no longer usable, please return them to your FLYER specialist retailer.