



Operating instructions

E-Bike according to EN 15194 · translation of the original operating instructions

FLYER
Innovation in Mobility

I. Safety instructions

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. Please retain these operating instructions, keep them at hand and take note of the information. Forward these instructions along with your FLYER if you lend it to other people. You will repeatedly encounter the following symbols:



Danger: This sign represents increased risk of falling, the possibility of injuries and harm to others. Your FLYER is equipped with modern, complex technology. It has to be handled with knowledge, experience and special tools. Leave any work on it to your FLYER dealer. We can only describe the most important points in these instructions. Further information and instructions are provided by the component manufacturers. They are attached to these instructions and must be adhered to as well. Please note: You should definitely talk to your FLYER dealer if anything is unclear to you.



Note: Here you can find IMPORTANT SPECIFICATIONS and information about the best use of your FLYER



Attention: This is a WARNING about possible damage to goods or environmental damage



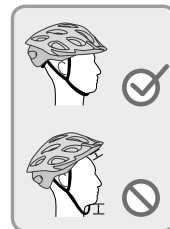
Adhere to the fastening torques: The exact fastening torque must be adhered to at each screw connection. This requires a special tool called a torque spanner. Leave this work to your specialist dealer when you do not have the required tool. Parts that have been fastened with the wrong fastening torque may break or come loose and cause severe falls.

The specific fastening torque is either printed on the component or provided in the Chapter "Fastening torques".

These symbols will from here on be used without any further explanations, but in each case will represent the contents and risk listed above. The area belonging to the respective symbol is framed as shown above.

Please read the chapters entitled "**Before the first ride**" and "**Before each ride**" in these instructions.

It is essential that you perform the tests described in this text. Protect yourself and others by behaving safely and responsibly and always consider the risks that other road users on bicycles are exposed to. Always wear a well-fitting and suitable helmet. Get information on how to make a helmet fit correctly.



Seeing and being seen is important. Wear light-coloured clothing or clothing with reflective elements when riding. You might have to use trouser clamps. And: The soles of your shoes should be rigid and slip-proof. Never ride with your hands off the handle bars.

Note for all parents and guardians:

Your responsibility as a guardian includes responsibility for the actions and the safety of your child - including responsibility for the technical state of his bicycle and its suitability for the rider.

Ensure that your child has learned to use his or her E-bike safely and responsibly – preferably in the environment where he or she will ride the E-Bike.



Children may only ride with an E-Bike when they have reached the required age and have the required licence!

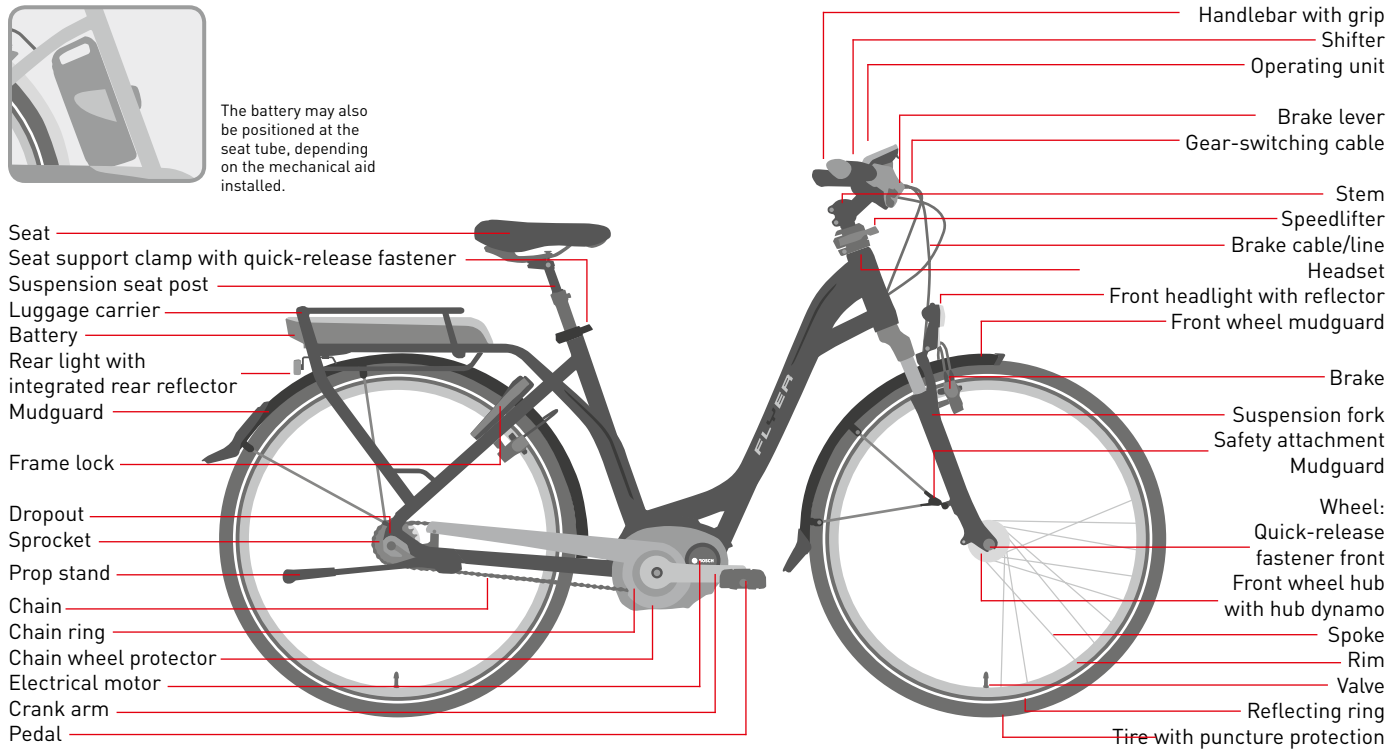


If you leave this page folded out, you can easily locate the component you are currently reading about.

II. The E-Bike and its components



The battery may also be positioned at the seat tube, depending on the mechanical aid installed.



Preamble

Dear FLYER customer, It is essential that you carefully read these original operating instructions to get to know your new FLYER before you use it. These instructions include a brief introduction. You will be able to ride your FLYER after reading this brief introduction if you are already an experienced E-Bike rider. Please read all of the instructions to ensure safe use.

These instructions are based on the assumption that you and all users of this FLYER have a basic knowledge of bicycles and E-Bikes. Please contact your FLYER specialist dealer if you are not certain 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.

Ignoring this information may have considerable consequences for your own safety. Ignoring these instructions may lead to severe accidents as well as financial repercussions.

You must know the specific instructions for this FLYER as well as the rules and laws applicable to road traffic, which may differ between countries.

III. Brief introduction

1. It is important to read the safety instructions about the technical uses of your bicycle first. Carefully read the quick-start instructions before your first ride.

Reading the quick-start instructions is no a substitute for reading all the operating instructions. They are intended as a support for experienced riders. Only they may go ahead and ride. It is explicitly required that you read all operating instructions carefully before your first ride.



Practise using and riding your E-Bike in a quiet and safe place before you ride it in public road traffic!



You may ride at significantly higher speed than you are used to on your normal bicycle due to the additional power of the motor. Please take this into account when familiarising yourself with the fast E-Bike!

2. Fasten at least one hand brake before placing a foot onto a pedal. The motor starts as soon as you step onto a pedal. This can be helpful when starting up and riding uphill, but it may cause the rider some difficulties and even severe falls, particularly if you are not used to it.

3. Take the battery out of the E-Bike before performing any work (e.g. assembly, maintenance, work on chain, etc.) on the E-Bike, transporting it by car or plane or storing it. There is a risk of injury when the electrical system is unintentionally activated.

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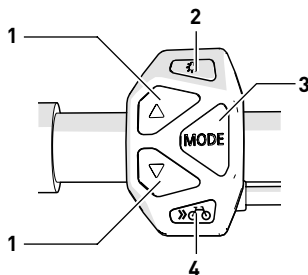
The current operating instructions are provided at www.flyer.ch/bedienungsanleitungen

2. Brief introduction to the FLYER with Panasonic drive unit

2.1 Operation and indicators for the Panasonic drive unit with central operating element

Press the on/off button **13** on the display to activate the assistance function or the various indicators.

The assistance function of the motor is automatically activated when you start pedalling.



1 Assistance mode selection buttons

Switch between the assistance mode options [HIGH], [STANDARD] and [ECO]. Select [NO ASSIST] to deactivate the assistance function.

2 Lighting button

Switches the lighting of the display unit on or off. The headlight or rear lights are also switched on or off when they are supplied by the battery of the E-Bike.

3 MODE button

Scrolls through the secondary information, e.g. distance ridden.

4 Bicycle button

This button's functions may change according to the type of E-Bike. When the E-Bike has a heavy load, the pushing aid works at speeds of up to 6 km/h. Fast FLYER E-Bikes for the EU market can ride up to 20 km/h without pedalling when this button is pressed.

5 Charging status indicator

Shows the remaining charge of the E-Bike battery.

6 USB connection symbol

Indicates when an external device (e.g. mobile phone) is connected to the display unit.

7 Operating indicator

Graphic display showing the level of electrical support the rider is using. The more bars shown, the greater the electrical support the rider is getting.

8 Text indicator

Shows the current assistance mode.

9 Time indicator

Shows the current time of day.

10 Light symbol

Shows that the lighting is switched on

11 Speed indicator

Shows the current riding speed.

12 Display field for secondary information

This field shows secondary information such as the distance ridden, the total distance ridden, the highest speed, etc.

13 On/off button

Switches the electrical support on and off.

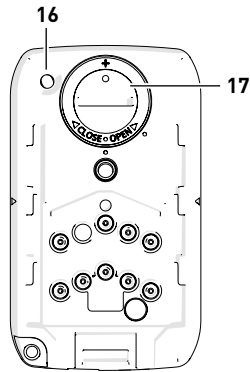
14 Micro-USB connection

This connection is used to charge an external device (e.g. mobile phone).

15 Protective cap

Protects the Micro-USB connector.





16 Reset button

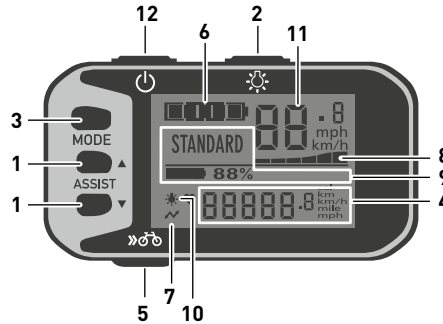
This button sets the total distance ridden to "0".

17 Button cell compartment

This compartment contains a button cell for the timer part of the display unit.

2.2 Operation and indicators for the Panasonic drive unit / laterally mounted display

Press the on/off button 12 on the display to activate the assistance function or the various indicators. The assistance function of the motor is automatically activated when you start pedalling.



1 Assistance mode selection buttons

Switch through the assistance mode options [HIGH], [STANDARD] and [ECO]. Select [NO ASSIST] to deactivate the assistance function.

2 Lighting button

Switches the lighting of the display unit on or off. The headlight and the rear light of the E-Bike will also be switched on or off when they are supplied with power from the E-Bike battery.

3 MODE button

Scrolls through the secondary information, e.g. distance ridden.

4 Display field for secondary information

This field shows secondary information such as distance ridden, average riding speed, maximum speed, total distance ridden and remaining range that can still be ridden with electrical support.

5 Bicycle button

This button's functions may change according to the type of E-Bike. When the E-Bike has a heavy load, the pushing aid works at speeds of up to 6 km/h. Fast FLYER E-Bikes for the EU market can ride up to 20 km/h without pedalling when this button is pressed.

6 Charging status display

Shows the remaining charge of the E-Bike battery.

7 USB connection symbol

Indicates when an external device (e.g. mobile phone) is connected to the display unit.

8 Operating indicator

Graphic display showing the level of electrical support the rider is getting. The more bars shown, the greater the electrical support the rider is getting.

9 Text indicator

Shows the current assistance mode, the remaining battery capacity, warning and fault indicators.

10 Light symbol

Shows that the lighting is switched on

11 Speed indicator

Shows the current riding speed.

12 On/off button

Switches the electrical support on and off.

Reset button (at the rear side)

This button sets the total distance ridden to "0".

2.3 Battery

1 Charge status LEDs

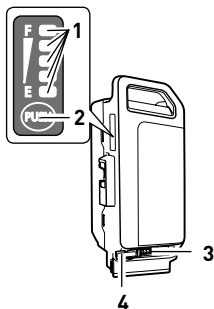
Shows the battery's remaining charge.

2 Charge status button

3 Connection for charger

4 Protective cap

Protects the connectors for the charger when the battery is not being charged.



Check whether the battery is fully charged after you have purchased it and before using it for the first time.

Press the charge status button on the battery to check the battery charge.

Charge the battery when the five LEDs do not all light up. Only use the original charger for this purpose.

Charging status indicator

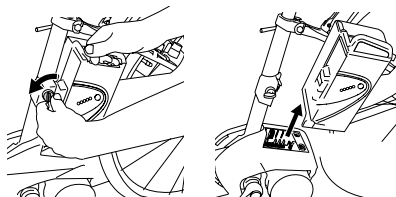
The charging status of the battery is indicated by five LEDs.

LEDs	Charge status
5 lit up *****	81-100%
4 lit up ****	61-80%
3 lit up ***	41-60%
2 lit up **	21-40%
1 lit up *	11-20%
1 flashes	1-10%

A fast-flashing LED indicates that the battery has been completely discharged.

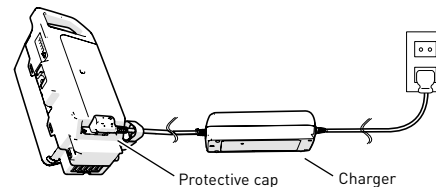
Removing the battery

- 1) Switch off the electrical system first. Press the on/off button for this purpose.
- 2) Unlock the battery with the battery key and remove it from the holder. Hold the battery firmly, it is heavy!



Charging the battery

The battery can be charged while it is installed in the E-Bike or once it has been removed.



1) Remove the protective cap from the battery.

Connect the mains plug to a mains socket (220 V - 240 V AC) and connect the charger to the battery.

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 charger until it has reached room temperature.

2) Check whether the charge status LED is lit up.

The LED lights up according to the charge status. The charge status LED switches off when the charging process has been completed.



The charging time increases when the battery temperature is very low.

Batteries cannot be charged any further once they are fully charged.



The battery may not be recharged when it indicates a fault. The battery might be damaged having been dropped or due to mechanical impact, even when there is no external damage visible. Such batteries must therefore be inspected by a specialist dealer.

3) Separate the mains plug from the mains socket after disconnecting the battery from the charger.

It is important that the protective cap is firmly attached before using the battery.

Safety warning regarding the battery charger

The name plate refers to warning notes and other safety information in connection with handling the charger. It is important to read them before using the charger.

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 charger until it has reached room temperature.



Only use the charger included in the delivery of your E-Bike or an original Panasonic charger of the same type.

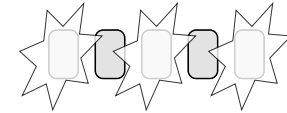
Only this charger is suitable for the Li-ion battery in your E-Bike.



The battery is supplied with a partial charge. Completely charge the battery using the charger before the first ride to ensure full battery performance. Read and adhere to the operating instructions of 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 LEDs of the charging status indicator will flash when the battery is outside the charging temperature range 1.



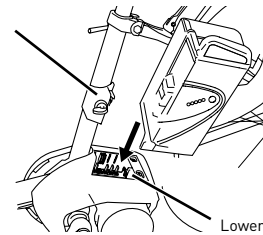
Separate the battery from the charger and wait until it has reached operating temperature. Only reconnect the charger when it has reached the permitted operating temperature.

Inserting the battery

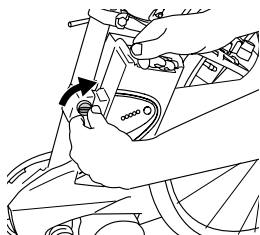
1) Insert the battery into the E-Bike's lower holder.

Ensure that the battery is correctly positioned in the holder.

Top holder



Lower holder



2) Lock the battery with the key.

The battery may drop out of the holder when it is not safely locked. Remove the key after locking the battery to prevent theft of the battery.

2.4 The pushing aid

Some models have a pushing aid installed. It is able to slowly move your E-Bike at up to max. 6 km/h without pedalling. It helps you, for example, to handle ramps when you have to push your bicycle out of a pedestrian passage or an underground parking garage.

2.5 The start-up aid

Some fast FLYERs have a start-up aid. It allows riding with motor power only. This can be done without pedalling. A maximum speed of 20 km/h may be reached.

3. Brief introduction to the FLYER with Bosch drive unit



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 controls have been inserted.

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

- Press the controls' 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 controls on/off

Briefly press the on/off button **5** to switch on the controls. 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 controls.

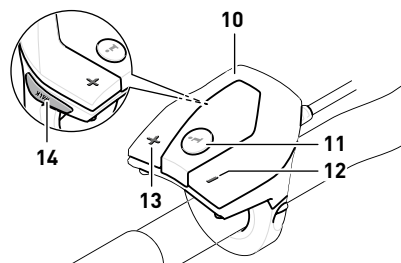
Setting the electrical support level

You can use the controls to determine how much the E-Bike electrical support will assist you when pedalling. The electrical support level can be changed at any time, even while riding.

The following electrical support levels are available:

- **"OFF"**: The electrical support is switched off and the E-Bike can be moved by pedalling only, like a normal bicycle.
- **"ECO"**: Effective electrical support with maximum efficiency to achieve maximum range
- **"TOUR"**: Continuous electrical support for trips with a large range
- **"SPORT"**: Powerful electrical support for athletic riding on mountainous routes as well as in city traffic
- **"TURBO"**: Maximum electrical support up to high pedalling frequencies for athletic riding

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



Switching the pushing aid on/off

The pushing aid makes pushing the E-Bike easier. The speed achieved with this function depends on the gear selected and can reach a maximum of 6 km/h. The smaller the gear selected, the lower the speed for the pushing aid function (with full power).

The pushing aid is **switched on** by pressing the "WALK" **14** button on the operating unit and holding it down. The E-Bike electrical support function is switched on.

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)
- The speed exceeds 6 km/h

Switch lighting on/off

The headlight and the rear light can be switched on and off at the same time by pressing the **2** button on the controls when the respective bicycle version supplies the riding lights from the E-Bike system.


Battery charge status indicator


The battery charge status indicator **g** shows the charge status of the E-Bike battery and not that of the internal controls' battery.

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

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

 The battery is fully charged.

 The battery should be topped up.

 The charge status indicator LEDs on the battery switch off.

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.

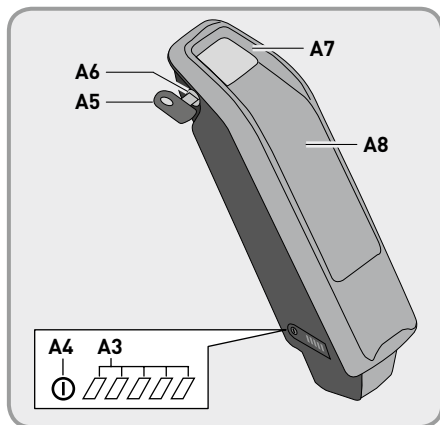
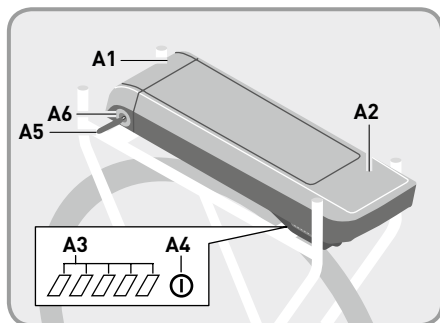
Checking the battery before its first use

Check the battery before you charge it or use it with your E-Bike for the first time.

Press the **A4** on/off button to switch on the battery. The battery may be damaged when no LED on the charge status indicator **A3** lights up. Fully charge the battery before its first use when one but not all LEDs of the charge status indicator **A3** light up.



The battery may not be recharged when it indicates a fault. The battery might be damaged having been dropped or due to mechanical impact, even when there is no external damage visible. Such batteries must therefore be inspected by a specialist dealer.



Do not charge a damaged battery and do not use it.

Contact an authorised bicycle dealer.

3.1 Charging the battery

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 charger until it has reached room temperature.



Only use the charger included in the delivery of your E-Bike or an original Bosch charger of the same type.

Only this charger is suitable for the Li-ion battery in your E-Bike.



The battery is supplied with a partial charge. Completely charge the battery before the first ride to ensure full battery performance.

Read and adhere to the operating instructions of 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 LEDs on the charge status indicator flash when the battery is outside the charging temperature range **A3**.

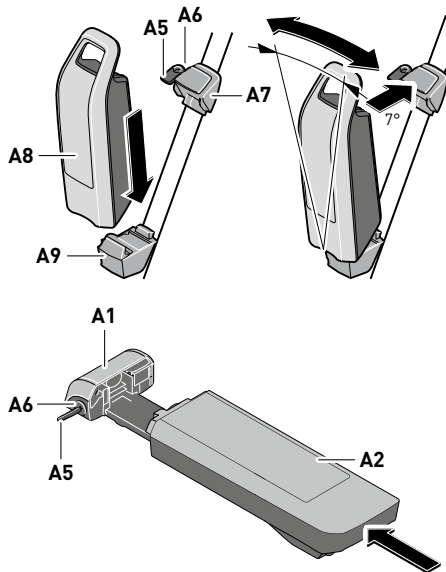


Separate the battery from the charger and wait until it has reached operating temperature. Only reconnect the charger when it has reached the permitted operating temperature.

3.2 Inserting and removing the battery



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



The key **A5** must be inserted into the lock **A6** and the lock must be unlocked before the battery can be used.

Insert the standard battery A8 by placing it with its contacts pointing downwards into the lower holder **A9** of the E-Bike (the battery may have an incline of up to 7° towards the frame). Place it in the top holder at a tilt **A7**.

Insert the luggage carrier battery A2 by pushing it with the contacts pointing forwards into the holder **A1** in the luggage carrier until it clicks in. Check whether the battery is firmly attached. Always secure the battery lock **A6** as it might otherwise release the battery and allow it to fall out of the holder. Always remove the key **A5** from the lock **A6** after locking. This prevents the key from falling out and also prevents unauthorised removal of the battery by third parties while the E-Bike is parked.

To **remove the standard battery A8**, switch it off and open the lock with the key **A5**. Tilt the battery out of the top holder **A7** and pull it out of the bottom holder **A9**.

To **remove the luggage carrier battery A2**, switch it off and open the lock with the key **A5**. Remove the battery from its holder **A1**.

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" used in these operating instructions relates to standard batteries (batteries with a holder on the bicycle frame) and luggage carrier batteries (batteries with a holder on the luggage carrier).

Take the battery out of the E-Bike

before starting any work (e.g. assembly, maintenance, work on chain, etc.) on the E-Bike, transporting it by car or plane or storing it.

There is a risk of injury when the E-Bike system is unintentionally activated.

5. Legal stipulations

At the time these operating instructions were printed, the following regulations existed in Switzerland, Germany and Austria. Biketec AG cannot be held responsible for providing them in their current and correct form.

CH 5.1 Switzerland

Bicycles with electrical pedalling support up to a maximum speed of 25 km/h, maximum rated power of 0.5 kW or that are designed for speeds up to 20 km/h are classified as light motorised bicycles.

- Riders of light motorised bicycles must be at least 14 years old
- Persons 14 to 15 years old require a Category M riding licence. Persons older than 16 years do not require a riding licence.

Bicycles with stronger (>1000W) or faster (>45km/h) electrical pedalling support are classified as motorised bicycles and require registration.

The following are required:

- Riding licence
- Number plate

The minimum age for riders of motorised bicycles is also 14 years. A riding licence (at least Category M) is compulsory at any age.

Bicycle path usage and prohibition for light motorcycles:

The "bicycle path" signal obliges the riders of one-track bicycles, light motorised bicycles and motorised bicycles to use the lane marked for them. Paths and roads marked with a sign to prohibit light motorcycle traffic may always be used by light motorised bicycles and motorised bicycles designed for a maximum speed of 20 km/h or pedalling support for up to 25 km/h. They may only be used by other motor vehicles when their motor is switched off.

Compulsory helmet:

Riders of light motorised bicycles and motorised bicycles designed for a maximum speed of 20 km/h or pedalling support for up to 25 km/h are not required to wear a helmet.

A bicycle helmet tested according to the EN 1078 standard is required for riders of motorised bicycles designed for a maximum speed of 20 km/h and pedalling support up to 45 km/h.

A light-motorcycle-type helmet must be worn by riders of motorised bicycles that are designed for speeds of more than 20 km/h.

However, it is recommended that you wear a helmet at all times for your safety.

D 5.2 Germany

E-Bike basic legal information

- Helmets are not compulsory. However, it is recommended that you wear a helmet whenever you are riding for your safety.
- Riding licences are not compulsory.
- Insurance is not compulsory.
- The regulations concerning the use of bicycle paths correspond to those for normal bicycles.

The fast E-Bike

Pulling a child trailer with a child in it is not permitted.

- Wearing a suitable helmet is compulsory.
- Riding licences are compulsory.
- You may ride the fast FLYER without a riding licence if you were born before 01/04/1965.
- Insurance is not compulsory.

Fast E-bikes and bicycle paths

In towns, only bicycle paths with a "Light motorcycles permitted" sign may be used. Bicycle paths outside towns may be used when no "Light motorcycles prohibited" sign applies.

Ⓐ 5.3 Austria

E-Bike

- No riding licence is required.
- Minimum age for unaccompanied riding: 12 years, except when a bicycle licence has been obtained.

An E-Bike must be used on bicycle paths, except when it has several tracks and is up to 80 cm wide or when it is towing a trailer that is up to 80 cm wide. It may then be ridden on the road.

Fast E-Bikes

Please take note of the current legal practice when operating the fast FLYER in Austria.

6. Appropriate use



FLYERs are generally designed to transport or be ridden by a single person. Transporting a second person is only permitted in compliance with the respective, national laws (children in a bicycle child seat, in trailers designed for this purpose or persons on a tandem).

Carrying luggage is only permitted on a suitable device that is attached to the FLYER. The maximum capacity of the luggage carrier as well as the maximum permitted total weight may not be exceeded (see Chapter 25 "Technical data").



Permitted total weight:
Rider weight + FLYER weight +
luggage weight + trailer weight

The FLYER is not licensed for extreme loads, e.g. jumps or riding on staircases. You may not take part in competitions with E-Bikes that are not explicitly licensed for competitions.

The following applies for vehicles of the C-, T-, RS- and B-series when they are equipped according to the applicable traffic regulations:

The FLYER has been designed for use in public traffic and on reinforced paths.

Any liability and warranty of the dealer and manufacturer becomes void when the vehicle is used for inappropriate purposes, when the safety instructions are not adhered to, when it is overloaded or when faults are repaired in an inappropriate manner. The specifications for maintenance and care must also be adhered to in order to retain liability and warranty.

7. Before the first ride



Modern brakes have a considerably higher braking performance than conventional brakes. Carefully practise using your braking system.

Please note that the performance of a rim brake may be lower in wet conditions and on slippery ground. Always expect the braking distance to be longer under wet conditions.



Carefully acquaint yourself with the grip on the pedals when you use pedals with rubber or plastic coating. These pedals may be very slippery under wet conditions.

8. Before any ride



Check your FLYER before any ride, as functions may change and parts may come loose after assembly, brief parking in public places or transport.

Before any ride, check:

- The lighting system is functional and firmly attached. Safety-related functions are: The front wheel headlight and the rear light must generate sufficient light and the position light function must work after your FLYER has come to a standstill.
- Check the bell is functional and firmly attached
- Check the brakes are functional and firmly attached and the wear of the brake pads and brake surfaces. On the hydraulic systems: Check pipes & connections for leaks!
- Check that the tire pressure is correct, taking note of the Tire and Tubes Chapter (12) and the manufacturer information. These are provided on the outside of the tire.
- Check the tires for damage, intrusive objects and sufficient tread depth.
- Check the wheels for true running and damage
- Check the wheels are firmly and correctly attached using their fastening nuts or quick-release fasteners.

- Check the gear system components for function and firm attachment
- Check all quick-release fasteners (also after short, unsupervised parking in town, etc.), screws and nuts are firmly attached
- Check the frame and the fork for damage, deformation and dents
- Check the suspension elements are functional and firmly attached
- Check the handlebar, stem and seat are firmly attached and correctly positioned



Do not ride if you are not convinced that your FLYER is in a technically flawless condition. First have your FLYER checked and repaired by a specialist dealer. We recommend regular inspections by your specialist dealer, particularly when you use your FLYER intensively (for sports or daily use). For inspection information and intervals, see Chapter 23.1. The safety-related components such as frame, fork, wheel suspension and brakes have a specific service life. Exceeding the service life can lead to unexpected component failure. This may in turn lead to falls and severe injuries.

9. Rider-specific adjustments

Your FLYER has been carefully assembled by your specialist dealer. If you detach the pedals, for example for transport purposes, you must take note that there is a right and a left pedal during their re-installation. You can see from the threads running in opposite directions which pedal fits where. Usually there is also an "R" embossed on the right and an "L" on the left pedal. Screw the right pedal in a clockwise direction and the left pedal in an anti-clockwise direction into the cranks.



The pedals must be tightened with an appropriate spanner, usually a 15 mm open-end spanner. Adhere to the correct fastening torque when tightening the pedals, see Chapter 25.2, "Fastening torque for screw connections".

Take care that the pedals are screwed in straight. There is a risk of breakage and falls when they are screwed in crookedly!

9.1 Setting the seating position

You have to get the seat, handlebar and stem adjusted to your body size and the desired seating position to use your FLYER safely and comfortably.



Work on the stem should only be performed by experts. These are safety-related components and faulty work or inappropriate tools may lead to severe accidents.



Seats and the stem may be fastened with screw connectors or quick-release fasteners. Always tighten the screw connections with the correct fastening torque, see Chapter 25.2.

9.2 Operation of quick-release fasteners and axles

Quick-release fastener

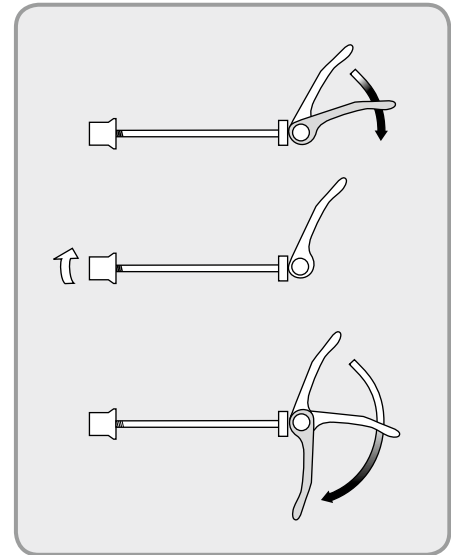
Quick release fasteners are clamping fasteners that secure components such as screws and generate the clamping force by folding down a lever without the use of tools. Opening and closing the lever controls the clamping force. The clamping force is set by turning the counter nut while the lever is open.

1. Open the quick-release lever to release the clamping force, e.g. to move the seat post. The inside of the lever usually has "Open" written on it.
2. You can now move and adjust the post.
3. You must firmly close the quick-release fastener before using the FLYER. Fold down the quick-release lever so that you can read "Closed" on its outside.



The quick-release fastener only closes reliably when you apply force with the ball of your thumb.

Turn the adjustment nut in a clockwise direction when the clamping force is not strong enough and, for example, your seat is not firmly attached. The clamping lever must be opened for this purpose.



Open the clamping lever and turn the adjustment nut in an anti-clockwise direction when the clamping force is too high and you cannot close the quick-release fastener.

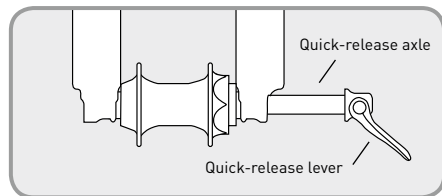


Always close quick-release fasteners so that the tip of the lever is very close to the bicycle and points downwards/backwards. This prevents the fastener from opening unintentionally.

Quick-release axles

Current chassis also use quick-release axles instead of quick-release fasteners or screw connections. They basically work like quick-release fasteners:

The axle is screwed into the dropout and compresses the hub between the two fork legs. The hub and the axle are fastened with a quick-release lever.



- Ask your dealer to explain exactly how you can fasten your front wheel correctly by using the installed quick-release axle system.
- Fasten your front wheel correctly.
- Do not ride your bike if you are not sure that the front wheel has been correctly fastened and cannot come loose.



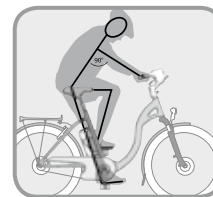
Check safe attachment of all quick-release fasteners and quick-release axles even if your FLYER was left unsupervised for a short period.

You may only start riding when all quick-release fasteners are firmly closed.

9.3 Seat height

The seat must be appropriately adjusted to be able to apply the pedalling force properly onto the pedals.

The position is ideal when you can sit on your FLYER and place the heel of your foot onto the pedal while the crank is vertically aligned.



Your standing leg should be stretched out. If this is not the case, step down, adjust the saddle in the right direction and try again.



The seat post has a marking that indicates how far it may be pulled out of the frame. Never pull out the seat post up further than the marker! Otherwise the seat post may buckle or break. Consult your FLYER dealer when the seat post has to be pulled out further to reach the correct seating height. Never ride with a seat post that is pulled out further, as this may lead to severe falls and injuries.

9.4 Seat position

The horizontal position of the seat can and should also be adjusted.

Riding will be optimal when the front knee is exactly above the pedal while the crank is in a horizontal position.

9.5 Handlebar height

Once the seat has been firmly and comfortably positioned, the handlebar must be adjusted to your needs. This should be done by an expert.

A good starting position for relaxed riding is a seating position in which the upper body and the upper arm form an angle of 90°.

The height of the stem must be altered to adjust the height of the handlebar.

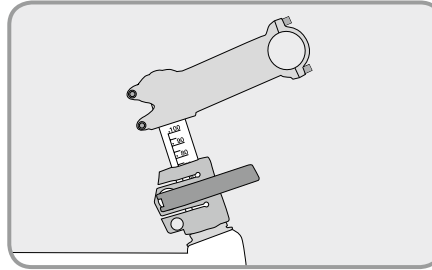


This should be done by an expert.

Speedlifter

This can be done very quickly when your FLYER is equipped with a Speedlifter stem.

You need only open the quick-release lever and then pull the handlebar and the stem upwards. Close the lever when the handlebar is in the correct position.



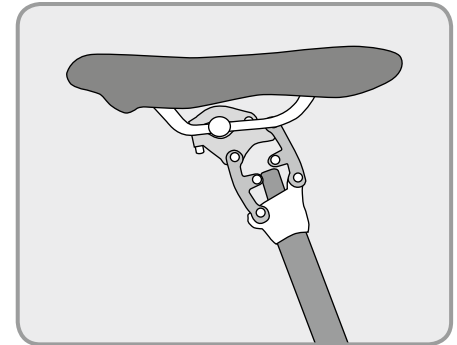
Read the attached instructions of the component manufacturer and get more information at www.speedlifter.com

10. Suspension elements

The chassis must be adjusted to the rider's weight and the type of application by a specialist dealer to ensure this function. The adjustment requires specialist knowledge, a lot of experience and special tools. It should therefore only be performed by a specialist dealer.



Take note that the suspension element might have to be newly adjusted when you ride with additional load, e.g. during a long trip.



11. Wheels and tires

Suspension seat posts have proven their worth in daily use and on bicycle trips.

Most suspension seat posts can be individually adjusted to the rider. The seat post might be equipped with softer or harder spring elements or their pretension might be adjusted for this purpose. Contact your FLYER dealer for this purpose.



Suspension and chassis components are safety-related components of your bicycle.

Maintain and check the suspended wheel at regular intervals. Have the inspection performed by your specialist dealer.

The drive works better and lasts longer when you regularly clean it. Warm water and a gentle cleaning aid are suitable cleaning agents.

The wheels are exposed to various strain levels due to the uneven structure of the ground and the rider's weight.

- The wheels must be checked and aligned in a specialist workshop after the first 100 kilometres.
- The tension of the spokes must be checked at regular intervals. Loose or damaged spokes must be exchanged or aligned by a specialist dealer.

11.1 Checking the rims

The rim is worn off more when a rim brake is installed.



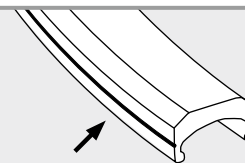
The stability of the rim decreases when it is very worn. The likelihood of damage increases.

A bent, torn or broken rim may lead to major accidents and severe falls. Do not use your E-Bike once you have discovered damage on a rim. Have the rim checked by a specialist dealer.



Modern rims from Size 24" have a marking that indicates rim wear. Coloured points or grooves are imprinted all around the rim surfaces for this purpose.

The rim must be replaced when the wear indicators in one or several places are worn off or no longer discernible. Your rims may have imprinted markers that disappear as well as coloured markers that become visible when the rim has been used for some time. In this case the rim must be replaced when the markers appear. Have the rims inspected by a specialist dealer once you have used up two pairs of brake pads at the very latest.



Groove as wear marker.

12. Tires and tubes



The permitted tire pressure may not be exceeded when pumping up the tire. Otherwise the tire may burst.

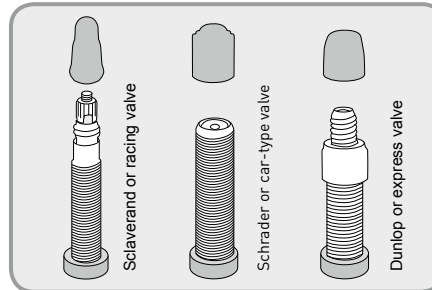
The tire must at least be pumped up at minimum tire pressure. There is a chance that the tire detaches from the rim when the air pressure is too low.

The lateral tire area contains information also the maximum tire pressure and usually also the permitted minimum pressure.

Only exchange the tire for a model of the same design type with the same dimensions and the same tread. Otherwise your experience on the bike may be harmed. This may lead to accidents.



Tires are wearing parts due to their use. Check the tire tread depth, tire pressure and the state of the lateral tire surfaces at regular intervals.



Three different types of valves are used: Ask your specialist dealer which air pump will fit your valve.

12.1 Fixing a flat tire

Correct and safe fixing of a flat tire on a modern E-Bike may require specialist knowledge and special tools. Ensure that technical faults and flat tires are only repaired by specialist.



Get thorough instructions from your specialist dealer and practise the wheel and tire changing process under his supervision if you plan to repair your own flat tires, e.g. on a long bicycle trip.

13. Bicycle gear systems

Get thorough instructions regarding the operation and the special features of the E-Bike gear system from your specialist dealer, even when you are an experienced cyclist. Train on even and safe terrain!

Please contact your specialist E-Bike dealer regarding assembly, maintenance, adjustment and operation. Please also read the attached operating instructions from the component manufacturers for this purpose.



A bicycle chain running at an angle may generate noise, even when the chain gear system has been perfectly adjusted. This noise is normal and does not imply damage to the gear system components. This noise will not occur when the bicycle chain runs at a flatter angle in another gear.



The use of faulty, wrongly adjusted and worn gear system components may lead to falls. Have it checked and readjusted as required in a specialist workshop if you have any doubts.



Do not pedal backwards while changing gears as this might damage the gear system.

14. Bicycle chain

Maintenance of bicycle chains:

Bicycle chains are common wearing parts. They should be exchanged at the following intervals.

- Hub gear system: from approx. 3000 km
- Chain gear system: approx. 1500-2000 km



A worn bicycle chain may tear and cause severe falls. Worn bicycle chains must therefore immediately be changed by your specialist dealer.

Regularly service your bicycle chain by cleaning and lubricating it. Ride as much as possible with gears that require little skewed running. Both measures reduce premature wear.



Only tighten your FLYER's chain when the electrical system is switched off.

Switch off the electrical system first, in case the chain of your FLYER should fall off the chain ring or the sprockets. Only place the chain back onto the sprockets once this has been done.

15. Brake, brake lever and braking systems

Get thorough instructions regarding the operation and the special features of the E-Bike braking system from your specialist dealer, even if you are an experienced cyclist. Train on even and safe terrain!

Please contact a specialist E-Bike dealer regarding assembly, adjustment, maintenance and operation.

Brake pads and brake linings are wearing parts due to their use. Their degree of wear must be checked at regular intervals. Grooves in the brake pads are markers that allow you to determine the degree of wear. The brake pads must be exchanged once the grooves are no longer visible. Always exchange both brake pads at the same time.

Only use original spare parts. Other parts may reduce the functionality of your E-Bike or result in damage.



It should not be possible to pull the brake lever up to the handlebar, even when strong force is applied.

16. Lighting system



Do not brake continuously during long downhill rides as the brakes might get very hot and this might affect the braking performance.

It is essential to brake alternatively with both brakes during long and steep declines so that the unused brake has time to cool down. Do not touch the brakes for at least 30 minutes after a ride as they might get very hot.



Source: Shimano® techdocs



Maintenance work on brakes must be performed in a specialist workshop.

Brake linings, brake surfaces on the rim, brake pads or brake disks may never be exposed to liquids containing oil. These substances reduce the effectiveness of the brake.

If your FLYER uses a hub dynamo, you can simply switch it on or off with the switch at the rear side of the front wheel headlight. The dynamo automatically switches on or off when your vehicle's lighting system has a light sensor.

The headlight must be aligned to properly illuminate the road head up to a distance of 5 metres.



Please carefully read the operating instructions for your lighting system. You can exchange the light bulb of conventional headlights in the event of functional faults. This requires basic maintenance skills. Light bulbs are available from your specialist dealer.

Modern headlights are equipped with LED technology which usually cannot be replaced. The entire lamp must be exchanged in the event of a fault.

Some models are equipped with the newly developed day riding light. This can be supplied from various power sources, depending on the riding situation. Please read the attached instructions from the component manufacturers for this purpose.



The lighting system is a safety-related component and it must be functional. Checking or maintenance work in the event of failures or intermittent faults may only be performed by an authorised specialist dealer.

17. Riding with additional load

17.1 Luggage carrier / riding with luggage

Luggage changes how you ride your FLYER. The braking distance becomes longer and the riding performance gets more sluggish. Adapt your riding style to the changed riding performance and remember the longer braking distance. Only transport luggage on released luggage carriers and take note of the maximum permitted weight. Never fasten a luggage carrier to the seat post as this may lead to breakage and severe falls. The manufacturer's warranty becomes void in such cases.



When transporting packing bags or other loads, make sure they are reliably and safely attached. Ensure that no parts can jam the spokes or running wheels.

18. Mudguards

The mudguards are attached with a safety fastener to guard against objects jamming between mudguard and tire. The fender will in such cases detach from the holder to prevent a fall.

You must immediately stop riding when an object has found its way between tire and mudguard. The object must be removed before you start riding again. Otherwise you are at risk of a fall and severe injuries.



You should under no circumstances ride with a loose mudguard strut, as this might jam and block the wheel. The loose ends of the holders may lead to serious accidents.

It is essential to have damaged mudguards exchanged by a specialist dealer before going out on your bike again. Regularly check whether the struts are firmly attached in the break-off safety holders.

19. Accessories and equipment



Always install accessories according to the regulations and instructions. Take care that all screw connections have the right fastening torque (see Chapter 25.2 "Fastening torque of screw connections")

- Only use add-on parts that comply with the respective legal regulations and the road traffic regulations.
- Using unapproved accessory parts may lead to accidents. Only use original accessories and add-on parts that fit your E-Bike.
- Other parts may lead to accidents or damage the E-Bike. Make use of your specialist dealer's expertise.

19.1 Transporting children / child seats



Installing a child seat is only permitted when appropriate holders for a child seat are provided on the luggage carrier. Please consider the maximum permitted total weight of the luggage carrier and the E-Bike (see Chapter 25 "Technical data")



Children may be transported on a safe child seat in Germany and Austria (up to age 7) and in Switzerland, provided the rider is at least 16 years old.



- Only use child seats that comply with the relevant legal requirements (in Germany the EN 14344 standard). The use of unlicensed child seats may lead to very severe falls and injuries.
- Ensure that the child's feet are safely supported in the child seat.
- Children must never be left without supervision in the child seat of a parked E-Bike. The child may be severely injured if the E-Bike falls over.
- The child seat must not be directly connected to the handlebar. Otherwise safe steering of the E-Bike will no longer be possible.
- Do not use suspension seats when you transport a child in a child seat behind the saddle. The child's fingers may get caught in it. Prevent the child from putting its fingers between the coils of coil springs by wrapping

material around them or covering them. The same applies to parallelogram-type seat posts. The moving levers of the suspension seat stem are dangerous. Prevent the child from reaching in.

- The child must always wear a safety belt. Otherwise there is a risk that he or she might fall out and get severely injured.
- Children should always wear a well-fitting bicycle helmet to prevent head injuries in case of a fall.



The performance of your E-Bike deteriorates when you ride with a child seat. The additional weight may make the E-Bike swerve. You will require a significantly longer braking distance to stop. Adjust your riding style accordingly.

The maximum permitted total weight of the E-Bike and the maximum load of the luggage container may not be exceeded when transporting children in a child seat (see Chapter 25 "Technical data"). Otherwise, there is a risk of damage to the luggage carrier and frame as well as severe accidents.

19.2 Bicycle trailers and child trailers



Take note of the current national legal practice before using a trailer, e.g. to transport children.

Ensure additional safety when riding with a child trailer. Use clearly visible, colourful flags and additional lighting elements. Only use tested and licensed trailers and safety equipment.



- Only use trailers that comply with the respective national legal practice. The use of unlicensed trailers may lead to very severe falls and injuries.
- The performance of the E-Bike deteriorates when a trailer is used. Adjust your riding style accordingly. Otherwise there is a risk that the trailer might tilt or come off, which may lead to very severe falls and accidents.
- Practise starting, braking, riding in bends and on inclines with an unloaded trailer in a safe terrain.
- The weight of the trailer must be included in the maximum permitted weight.
- You might require a significantly longer braking distance when using a trailer. Please take note of this to prevent accidents.
- Ask your specialist dealer about the maximum permitted weight of the trailer that you are allowed to tow with our FLYER.
- Ask your FLYER specialist dealer about the correct selection and installation of the trailer coupling.

19.3 Bicycle basket



The handlebar or the stem should not be damaged when the basket is attached.

- The basket may not obscure the headlight or the front reflector.
- The brake and gear-changing cables may not be bent and their mobility may not be affected.
- The basket may only be loaded with a maximum weight of five kilograms.
- Note that the basket may affect steering.

19.4 Car roof- and rear-mounted racks



- Only use rear-mounted car racks that comply with the relevant, national legal practice for transport by car. Using unapproved rear-mounted car racks may lead to accidents.
- Adjust the way you ride according to the weight on your rack. Regularly check attachment to the E-Bike during the transport. Severe accidents may occur if the E-Bike becomes detached from the car rack.

Please take note that loose parts such as tools, luggage and tool bags, child seats, air pumps, etc. may detach during transport. This may put other people on the road at risk. All loose parts should therefore be removed before you start riding.

A car roof rack changes the total height of your vehicle.

20. Electrical system



- Do not transport your E-Bike upside down. Only fasten the E-Bike at the handlebar, seat or seat post when this is intended by the rack manufacturer. Take care not to damage the fork or the frame when fastening your E-Bike.
- You may not hook the pedal cranks of your E-Bike into the roof or rear rack of a car. The E-Bike must always be transported while standing on its wheels. Other options only apply when a different way of transporting is prescribed for the car rack. The frame and the fork may be damaged when this rule is not adhered to.
- When the E-Bike is transported by car, the battery must be removed and be transported separately for legal reasons.

All information, data and instructions concerning the electrical system of your FLYER are included in the attached operating instructions for the respective electrical support system installed. They include details of the operation and maintenance and 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

21. Maintenance



Do not use a strong water jet or a high-pressure cleaner for cleaning. The cleaning liquid may enter sealed bearings due to high pressure, dilute the lubricant and increase friction. This leads to corrosion that destroys the bearing.

The following substances are unsuitable for cleaning your E-Bike:

- Acids
- Fats
- Hot oil
- Brake cleaner (except on the brake disks)
- Liquids containing solvents

The substances mentioned damage the surface and increase the wear of the E-Bike.

Please ensure environmentally appropriate disposal of the lubricants, cleaning and care agents after their use. These substances should not be disposed of as domestic waste, down the drain or in a natural environment.

The flawless operation and the durability of your E-Bike depends on maintenance and care.

- It is therefore important that you regularly clean your E-Bike with warm water, a little detergent and a sponge.

- Check your E-Bike each time for cracks, dents or material deformation.
- Damaged parts must be exchanged. Only use your E-Bike once this has been done.
- Repair paint damage.

Additional, important information about maintaining your E-Bike is also available on the respective component manufacturers' websites.

22. Wearing parts

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

Many parts of your E-Bike are subject to very rapid wear, depending on their function and the extent of usage.

This includes:

- Tires
- Rims in connection with rim brakes
- Brake linings
- Brake disks
- Bicycle chains or toothed belts
- Chain wheels, sprockets, jockey wheels
- Lighting devices of the lighting system Handlebar grips
- Hydraulic media and lubricants
- Gear switch and brake cables
- Paint
- Bearings
- Suspension elements



You should have your E-Bike regularly checked in a specialist workshop and have wearing parts exchanged as required.

23. Regular inspections

Have the first inspection of your E-Bike performed in a specialist workshop after you have ridden approx. 200 km or after four to six weeks. This is necessary because the spokes settle, the brake and gear system cables extend and the bearings run in after the first few kilometres ridden. The inspection further sustains your warranty claim.

- You should clean your E-Bike after every ride and check it for damage.
- The first inspection has to be performed by a specialist dealer.
- Check that bolts, nuts and quick-release fasteners are firmly attached. This should be done at intervals of approx. 300 to 500 km or every three to six months.
- Clean your E-Bike at regular intervals.
- All moving parts (apart from the brake surfaces) must be greased.
- You should have damage to the paintwork and rusty parts mended.
- All bare metal parts (except the brake surfaces) should be treated against corrosion (rusting).
- You must have damaged and defective parts exchanged.

23.1 Inspection plan

Maintenance/control

After the first 200 kilometres ridden

following purchase and thereafter at least once per year, a full maintenance service should be performed by a specialist dealer.

The following need to be checked:

- Tires and wheels

and the fastening torques of the following components:

- Handlebar
- Pedals
- Cranks
- Seat
- Seat post
- Fastening screws

The following components must be readjusted:

- Headset
- Gear system
- Brakes
- Suspension elements

After each ride on your E-Bike

the following parts have to be checked:

- Spokes
- Rims for wear and true running
- Tires for damage and obtrusive objects
- Quick-release fasteners
- Function of the gear system and suspension
- Brakes, hydraulic brakes for leaks
- Lighting
- Bell

After every 300 to 500 kilometres ridden

Have the following parts checked for wear and exchanged as required by a specialist dealer:

- Chain
- Chain wheel
- Sprockets
- Rims
- Brake linings
- Clean the chain, chain wheel and sprockets.
- Lubricate the chain. Only use suitable lubricants.
- Check all screw connections for firm attachment.

After 1000 kilometres ridden

The braking hub must be checked, lubricated and exchanged as required by a specialist dealer.

After 3000 kilometres ridden

Have the following parts disassembled, checked, cleaned, lubricated and exchanged as required by your specialist dealer:

- Headset
 - Pedals
 - Hubs
 - gear cables*
- and
- brake cables.

After every rain shower

Clean and grease the following parts:

- Gear system
- Brake (excluding the brake surfaces)
- Chain

* Teflon-coated cable sheaths may not come into contact with lubricants or oils.



Please note that not all lubricants and care agents are suitable for your E-Bike. Ask your specialist dealer regarding the correct use of the different products. The use of unsuitable lubricants and care agents may lead to your E-Bike becoming damaged and less functional.



You must not allow care agents or oils to get onto the brake linings, brake disks and brake surfaces of the rim as this will reduce brake performance.

24. Exchanging the components of the "fast FLYER"

The following list shows which components of your FLYER may only be replaced by identical, original components:

- Frame
- Motor unit
- Battery
- Tires
- Rims
- Brake system
- Headlight
- Rear light
- Number plate holder
- Prop stand
- Handlebar
- Stem
- Gear system

- Rear-view mirror: Can be exchanged for another approved rear-view mirror.
- Chain
- Headset
- Tube
- Hubs
- Gear system components: Only when the largest gear ratio is not changed.

24.1 Components that do not have to be exchanged using an original component

- Cranks
- Pedals: Pedal reflectors when they are part of the design type.
- Mudguard: The front edge of the mudguard must be rounded off.
- Luggage carrier
- Seat / seat post
- Handlebar grips
- Bell: Can be exchanged for an equivalent, sharp-sounding bell.

25. Technical data

New FLYER models	Size	Weight
C-series	M	approx. 28kg*
T-series	M	approx. 28kg*
RS-series	M	approx. 28kg*
B-series	M	approx. 28kg*

Our bicycles are designed for a maximum total weight (rider, luggage and bicycle) of 149 kg.

25.1 Batteries for the next-generation FLYER models (36V)

Capacity	Energy content
11.2Ah (Bosch)	400Wh
15Ah (Panasonic)	540Wh
18Ah (Panasonic)	648Wh

* The actual weight depends on the frame type and size and the accessories.

Panasonic support levels

250W	up to 225% (high)
350W	up to 275 % (high)

Bosch support levels

250W	Active: up to 225% (high)
350W	Performance: up to 250 % (high)

25.2 Fastening torques for screw connections



Inappropriately fastened screws may damage components. You should therefore always adhere to the fastening torques specified.



A torque spanner must be used to fasten the screw connections. Incorrectly fastened parts may come loose or break.

Screw connection	Thread	Fastening torque (Nm)
Crank, aluminium	M8x1	35-40
Pedal	9/16"	30
Axle nut, front	generally	25
Axle nut, rear	generally	40
Shaft stem	M8	23
Stem, ahead stem, angle adjustment	M6	10
Stem, ahead stem, Handle bar clamp	M5 M6 M7	6-8 10-12 14-16
Stem, ahead stem, fork shaft	M5 M6 M7	6-8 10-12 15-17
Bar end, outside clamp	M5 M6	5 8
Seat post, Seat clamp	M8 M6	14 9
Derailleur clamp	M5	6-8
Brake, brake lining	M6	2-4
Brake, Cable clamp	M6	10

Screw connection	Thread	Fas-tening torque (Nm)
Derailleur hanger	M10 x1	16
Bottom bracket	BSA	According to manu- facturer informa- tion
Disc brake caliper, Shimano, IS and PM	M6	6-8
Disc brake caliper, Magura	M6	6
Shifting lever clamp	M5	3
Brake lever clamp/brake handle	M5	3
V-brake, fastening screw	M6	6
Free wheel body fastening screw	n/a	35- 50
Cassette, fastening ring	n/a	35- 50
Grips, to be screwed on	M4 M5	3 5

General fastening torques for screw connec- tions

The bolt heads have an imprint that specifies the screw quality, e.g. 8.8.

The following fastening torques (means) apply depending on the screw quality if the manufacturer has not provided other speci-
fications:

Thread size	Material quality V2A/V4A	8.8	10.9	12.9
M4	3	2.7	3.8	4.6
M5	5	5.5	8	9.5
M6	8	9.5	13	16
M8	20	23	32	39
M10	40	46	64	77

26. Stipulations regarding warranty and guarantee

1. Legal warranty

The respective, country-specific stipulations apply with regard to warranty. End users in Switzerland and the EU are entitled to war-
ranty claims against the seller for a period of two years after handover of the goods.

The warranty includes residual battery capacity of 60% of the initial nominal capacity. The normal wear of wearing parts (e.g. tires, tubes, chains, sprockets, brake linings, paint, labels) is not subject to warranty claims.

2. Voluntary manufacturer warranty

a. Warranty periods

Biketec AG voluntarily provides a manufacturer warranty for all FLYER E-Bikes that have been ultimately assembled and adjusted by a recog-
nised FLYER specialist dealer:

- Frame: 10-year warranty against frame breakage
- Motor, motor controller, display, charger: 5-year warranty against production and material faults

A warranty claim does not lead to an extension of the original period of 5 or 10 years.

b. Handling of warranty claims

During the warranty period, product faults are dealt with free of charge by replacement or repair. Warranty services may only be provided by a FLYER specialist dealer recognised by Biketec AG. Warranty services are only provided or paid for when a dated proof of purchase identifying the FLYER E-Bike and a full service record is provided. The warranty is transferable to a subsequent user or owner when appropriate documentation can be provided. Biketec AG reserves the right to deliver or install equivalent products when exchanging a FLYER or components of it as part of warranty claims.

c. Warranty exclusions

The FLYER owner is responsible for using his E-Bike appropriately and for regularly maintaining and servicing it. Warranty claims are excluded in the event of faults due to abuse or excessive use, insufficient maintenance, faulty repair or modification as well as the consequences of an accident.

Warranty claims are further excluded when the bicycle is used for races and competitions, for commercial use as well as for wearing parts (e.g. tires, tubes, chains, sprockets, brake linings, paint, labels).

Warnings and important information



- Please consider: You may ride with significantly higher speed than you are used to on your normal bicycle due to the additional support of the motor.
- Remember that your FLYER's motor may get hot after long rides on hills. Do not touch it. You might burn yourself.
- Do not try to operate your FLYER with a battery that is different from the original battery. Your specialist dealer will advise you regarding the correct FLYER battery.
- Never remove covers or parts. Live parts may become exposed. The connection points may be live as well. Only your specialist dealer may perform repairs or maintenance on live parts.
- Do not damage or squeeze cables when you maintain, clean or adjust your FLYER.
- You may no longer use your FLYER when it can no longer be safely operated. This is the case when live components or the battery are damaged. The FLYER must be taken out of operation and secured until it has been checked in a specialist workshop.

- You must be particularly careful when children are present. Prevent children from pushing objects through openings in the bicycle. They might get life-threatening electric shocks.
- Your FLYER may only be fastened to a stand using the seat post. High-quality aluminium frames may get damaged by the clamping force of the holder.

27. Inspections

1. Inspection

At the latest after 100-300 kilometres or three months after the sales date

Order No.:

Date:

All maintenance work required has been performed (see service and maintenance schedule)

Exchanged or repaired parts:

.....
.....
.....
.....
.....

Stamp and signature of the dealer:

2. Inspection

At the latest after 2,000 kilometres or one year

Order No.:

Date:

All maintenance work required has been performed (see service and maintenance schedule)

Exchanged or repaired parts:

.....
.....
.....
.....
.....

Stamp and signature of the dealer:

3. Inspection

At the latest after 4,000 kilometres or two years

Order No.:

Date:

All maintenance work required has been performed (see service and maintenance schedule)

Exchanged or repaired parts:

.....
.....
.....
.....
.....

Stamp and signature of the dealer:

4. Inspection

At the latest after 6,000 kilometres or three years

Order No.:

Date:

All maintenance work required has been performed (see service and maintenance schedule)

Exchanged or repaired parts:

.....
.....
.....
.....
.....

Stamp and signature of the dealer:

5. Inspection

At the latest after 8,000 kilometres or four years

Order No.:

Date:

All maintenance work required has been performed (see service and maintenance schedule)

Exchanged or repaired parts:

.....
.....
.....
.....
.....

Stamp and signature of the dealer:

6. Inspection

At the latest after 10,000 kilometres or five years

Order No.:

Date:

All maintenance work required has been performed (see service and maintenance schedule)

Exchanged or repaired parts:

.....
.....
.....
.....
.....

Stamp and signature of the dealer:

28. Declaration of conformity & imprint

EC declaration of conformity



(Not applicable to models that require licensing)

The manufacturer Biketec AG
 Schwende 1
 CH-4950 Huttwil
 Telephone +41(0)62 959 55 55

hereby declares that the following products:

Product description: FLYER E-Bike/EPAC
 Type description: C-Series Next Generation, T-Series Next Generation,
 RS-Series Next Generation, B-Series

comply with all relevant regulations of the **Machine Directive (2006/42/EG)**.

The machine also complies with all regulations in the
Electromagnetic Compatibility Directive (2004/108/EC)
 and in the **Low Voltage Directive (2006/95/EC)** (only the charger).

The following harmonised standards have been applied:
 DIN EN 15194 (Bicycles - Electronically supported bicycles - EPAC bicycles)
 DIN EN 14764 (City and trekking bicycles - Safety engineering requirements and
 test methods)

Technical documentation by:
 Biketec AG
 Ivica Durdevic
 Schwende 1

CH-4950 Huttwil
 Switzerland
 Huttwil, December 2013

For Biketec AG:

Kurt Schär
 Managing Director

Ivica Durdevic
 Head Product Management & Technology

Imprint

Responsible for the content and the figures

Hexagon Zweiradtechnik
 Mittelstraße 4
 D-65307 Bad Schwalbach
 Tel +49 6124 6054161
 Hexagon-Zweirad@web.de

Legal inspection by a lawyer's office specialising in intellectual property

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Please take note that all instructions may be changed for improvement purposes without prior notice.

Regular technical updates are available at www.flyer.ch

FLYER EN Version 1.5 January 2014

IV. Handover protocol

The handover of this FLYER to the customer was performed after the final assembly, which confirmed the E-Bike is in a usable state and the issues listed below were in good working order (additional works shown in brackets).

- Lighting Front and rear brakes
- Suspension fork and possibly shock absorbers (adjustment to customer)
- Wheels (eccentricity/spoke tension/air pressure)
- Handlebar/stem (screws checked with position/screws with torque spanner)
- Frame hinges and locks adjusted (for folding bicycle)
- Pedals (for click-in pedals adjustment of release force as required)
- Seat/seat post (seat height and position adjusted to customer; screws checked with torque spanner; suspension seat post: adjusted to customer)
- Gear system (end stops!)
- Screw connections of add-on parts (check with torque spanner)
- Battery loaded Test ride performed
- Other work performed _____

Dealer name _____

Street _____

Post code, town/city _____

Telephone _____ Fax _____

E-mail _____

Handover date,
stamp,
signature of the dealer

The customer hereby confirms with his signature that he/she has received the vehicle and the accompanying documents listed below in good order and has been instructed in the use of the bicycle.

Instructions

- Braking system Suspension fork Suspension seat post
- Pedal system Speed lifter Translation of the original FLYER operating instructions
- Other _____

Customer information

Name, first name _____

Street _____

Post code, town/city _____

Telephone _____ E-mail _____

Place, date _____ Signature _____

(Advice for the dealer: Copy your E-Bike passport and handover protocol and add the copies to your customer file; send copies to the bicycle manufacturer as required)

V. E-Bike passport

Manufacturer **Biketec AG**

Brand **FLYER**

Model _____

Frame No. _____

Fork manufacturer _____

- model _____

- serial number _____

Permitted total weight
(bicycle, rider and luggage) _____

Child seat permitted Yes No

Permitted trailer load _____

Frame type _____

Frame size _____

Wheel or
tire size _____

Colour _____

Special features _____



Brake lever
Brake allocation

Left lever

- Front wheel brake
 Rear wheel brake

Right lever

- Front wheel brake
 Rear wheel brake

Please align here for copies

Stamp and
signature
of the specialist dealer

Handed over by

