

User Manual

E-kangaroo

by winter



www.kangarobike.com

We wish you every success with your investment in a Winther E-Kangaroo, which has set new standards in comfort and user-friendliness.

Read through this manual carefully before using the E-Kangaroo for the first time. This will ensure you obtain full benefit from the vehicle.

1. Functions/settings

1.1 Battery indicator

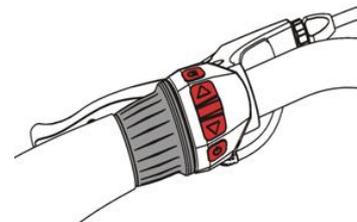
The battery indicator is integrated in the LCD display on the handlebar and indicates the battery level (in the form of a general indication).

Please note that the indicator reading may vary depending on whether you are riding uphill, accelerating or riding downhill.



2. Assist-funktion

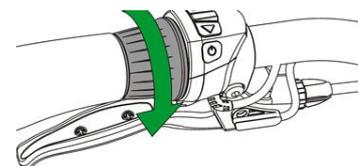
The controller and display is located on the left handlebar. It has 5 setting options and a hand throttle. The assist function has 4 levels from 1-4 and an "auto" function which enables the hand throttle. The desired assist level is selected using the Up/Down button. The "auto" function is selected by using the "down" button until no lines are shown on the display. (see also part 13)



2.1 Hand throttle

It is possible to select an "auto" function so that the speed is regulated via the hand throttle. The hand throttle will work when it is turned. The "Auto" funktion is set by pressing the "down" button until no lines are shown on the display"

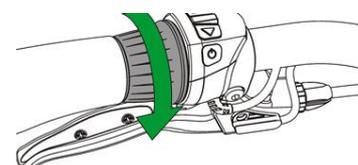
The rider can then easily decide when and how much assistance is needed. Because the hand throttle is of stepless design, a smooth ride is obtained, with the rider is having full control over the speed.



If the hand throttle is not activated, the e-Kangaroo will function as a regular bike when it is set at the "auto"/no lines level.

2.2 Booster effect/"Walk" function

The hand throttle has a so called "Booster effect". It means that when the hand throttle is activated, the hand throttle supersedes the assist function. When the hand throttle is not turned (when you let go of the hand throttle), the assist function will work again at the chosen level .



Walk function – 6 km/h

When you are not pedaling, then the hand throttle can be used to activate the “walk” function. The walk function allows a speed of up to 6 km/h.

The motor is disengaged once a speed of 20 km/h is achieved.

3. Removing and refitting the battery

Removing and refitting the battery		Fitting the charger
		
Using the key, turn the On/Off to the open position and remove the battery by sliding it backwards out of the holder.	Refit the battery by pushing it into place and turn the key to the locked position.	Fit the charger in the socket on the battery pack. The battery can be charged while it is fitted to the bicycle, or it can be removed so that it can be charged indoors.

4. Riding the E-bike

The auxiliary motor works as follows:

A sensor measures when effort is applied to the pedals, and the electronic controller then starts the motor.

The power of the auxiliary motor is regulated using the assist function. Using this, you can control the power to match your needs while riding.

If you are riding uphill, you can open up the throttle to the full, whereas the motor can be disengaged completely when riding downhill.

The electronic controller automatically disengages the motor when you stop pedalling or brake. The controller also disengages the motor once your speed exceeds 20 km/h.

5. The Highway Code

No driving licence is required, nor does a crash helmet have to be worn. Equally, there is no requirement for insurance or a number plate.

On the road, therefore, you are to all intents and purposes a cyclist. It is recommended you wear a bike helmet.

6. Insurance

Given that for insurance purposes an E-bike is classified as an ordinary bike, it will normally be covered by a standard family insurance policy.

However, you are advised to consult your insurance broker about the terms of insurance governing the E-bike.

7. Charging unit/charging

7.1 Using the charging unit:

1. Charging must be performed indoors.
2. Turn the start key to the Off position.
3. Insert the charger plug in the battery charging socket.
4. Insert the mains plug (230 V) in the mains socket and switch on the charger.
5. A red LED comes on once the batteries are being charged.
6. When the red LED changes to green, the charger has finished charging and the bike is ready to ride.
7. Only switch off and remove the charger from the charging socket once you are ready to use the bike again.

8. Charging

The E-Kangaroo uses maintenance-free Panasonic Li-ION batteries. Please note that the battery can be removed.

The battery comes supplied factory precharged to around 40%. Before being used for the first time, the battery must be fully charged using the charger supplied (green LED comes on). It is recommended that when charging the battery it should be left charging a minimum of 24 hours *after* the green light is turned on. This enables a better balance between each of the cells in the battery.

To obtain maximum battery life and E-bike range, it is recommended batteries be charged in a heated room. At temperatures below 20°, the charging time is extended, with the result that the batteries cannot be fully charged, thereby giving a more restricted range. You should bear in mind that battery capacity decreases once the temperature drops below 20°.

Optimum charging of the battery is at 20°. Charging the battery in direct sunlight can seriously shorten battery life. When the battery is brought indoors for charging, condensation may form on the outside or inside of the battery. Charging must then be postponed until the condensation has dispersed. Inside the battery is a PCB which controls the individual battery cells. Charging the battery while there is still condensation in it may damage the PCB.

Li-ION batteries do not have a memory effect. There is therefore absolutely no need to discharge the battery before charging.

Charging the Li-ION battery frequently can prolong battery lifetime. Please bear in mind however that once charging has been commenced it should not be interrupted, as this can have a negative impact on battery lifetime.

Rechargeable batteries must always be stored in a dry place and should be removed from any equipment.

Never pull on the cables when removing the charger from the battery. Get hold of the plug and carefully withdraw it from the battery.

Never leave the battery in the charger once the charger has been switched off.

Never leave your battery in your E-Kangaroo for longer periods.

Bear in mind that battery capacity decreases over time and at lower temperatures. The more the E-bike is used, the more capacity, and therefore the range, is reduced. In normal use, a battery can be charged and discharged up to 600 times over its lifetime.

Bear in mind also that periods at low temperatures will have a negative effect on battery capacity and performance. This changes once the temperature returns to around 20°. However, the capacity and performance when riding uphill will be reduced over the lifetime of the battery.

Remember too that the weight of the user, style of riding, the terrain, road surface and tyre pressure all have a significant impact on range. The user in particular can also significantly influence the range by the amount of pedalling they are prepared to do.

It costs next to nothing to have the charger switched on all the time, as once the battery is charged the charger goes to standby and will therefore use very little current. However, the charger should be switched off after a maximum of one week's charging. The battery should then be removed from the charger and full charging of the battery should be performed once a month. (Fully charged = The charger LED lights up green).

9. Winter storage

If the E-bike is put into storage for longer periods (more than a month), charging it once a month will prove sufficient.

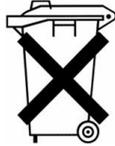
During storage, the batteries must always be fully charged, as remaining fully or partly discharged over a longer period is detrimental to them.

10. Warning

- The battery must not be exposed to heat or short circuits, nor may it be punctured or misused in any other way.
- The battery must not be taken apart or broken into pieces.
- The battery must not be thrown into an open fire.

- The battery must not be immersed in water or other liquid.
- The battery may only be charged using the charger supplied.
- Never charge the battery at temperatures below 0° or over 45°

11. Disposing of the battery



Batteries contain substances that can be hazardous to human health and the environment if not handled correctly.

The batteries are marked with a crossed-out wheeled bin symbol. This symbolises that worn-out batteries must not be disposed of together with unsorted domestic waste but must be collected separately.

It is important that that you hand over your worn-out batteries to the collection systems that have been set up for that purpose. In this way you will help ensure the batteries are recycled as required by law and do not pollute the environment unnecessarily.

All municipalities have set up collection systems whereby worn-out portable batteries are picked up directly from households or can be taken by residents to recycling centres and other collection points. You can obtain further information from your municipality’s public services department.

12. Complaints

See the relevant law governing sale of goods

13. LCD display functions

<p>On and off button</p>  <p>Use the on/off button to turn on or off the electrical system.</p>	
<p>Battery indicator</p> <p>Here you can see the status of your battery level.</p>	

Assist-level

On the left side of the display the chosen assist level is indicated.



Choosing the assist level



Level up – level down



Level 4 is the highest level

Level 1 is the lowest level

The “Auto” function which enables the hand throttle is set by pressing the down button until no lines are displayed.



Mode function - TRIP - ODO



Press the Mode button to shift between ODO and Trip counter.

Trip counter is reset when holding the mode button down for 2 seconds.

The ODO function shows the total number of kilometers.



Front and rear light



Turn on and off function which controls the front and back light.



Actual speed

This indicates your current speed level



Fault indicator	
	<p>The fault indicator is shown on the display.</p> <p>It indicates any system faults by means of codes from E0² to E0⁵:</p>
Fault code:	Description:
E0 ²	Indicates a fault related to the power consumption.
E0 ³	Indicates that that there is a fault related to the controller.
E0 ⁴	Indicates a fault related to the hand throttle.
E0 ⁵	Indicates a fault related to the front brake.