



christiania bikes

Promovec CARRIER 6



**Manual
Promovec system**

ATTENTION! DRIVE CAREFULLY

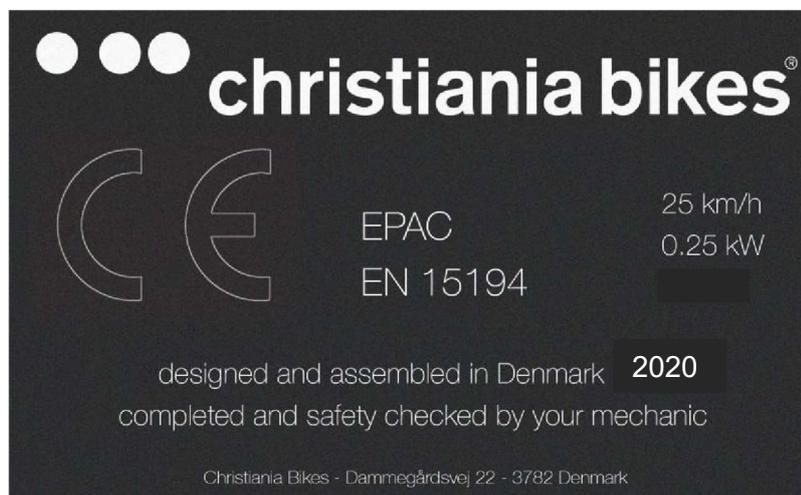
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Safety

For driver and passenger safety, it is recommended:

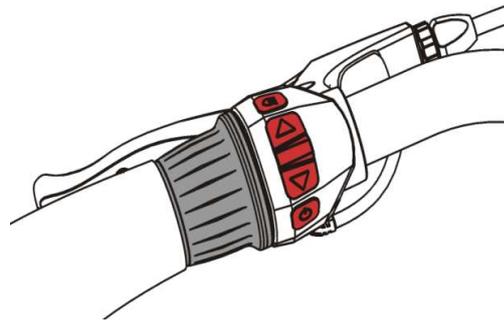
- that you learn how to use the Walk Assist.
- that all persons on the bike has approved helmet on while driving.
- that passengers always use the seat belt while driving.
- that the light is on the bike when it is dark.
- that the driver carries reflexes.
- that the driver is extra carefully when the road is slippery, uneven or otherwise is difficult passable.
- that the driver has both hands on the handlebar when driving more than 5 km/h.
- that the driver immediately decelerates the cycle if the driver feels insecure in the ride.
- that the parking brake is used when the bike is parked.
- that the driver is aware that other road users may find it difficult to assess the possible higher speed on a bicycle with an electrical motor.
- See also Christiania Bikes user manual.



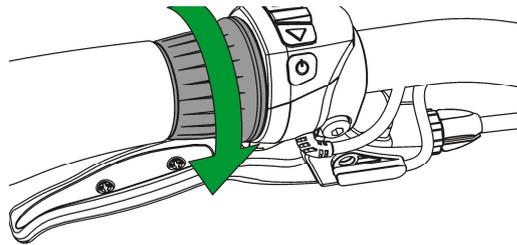
Functions

Operation of the display and the throttle

To operate the display, use the 5 setting buttons and the throttle in the left lever on the handlebars.



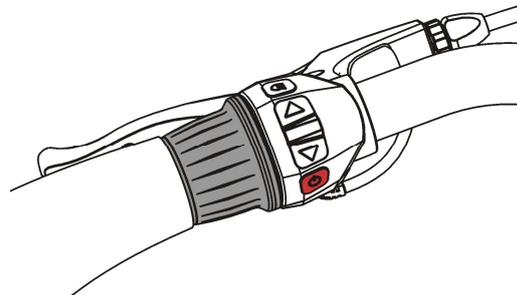
To operate the throttle, turn the lever as shown in the figure to the right.



Display settings

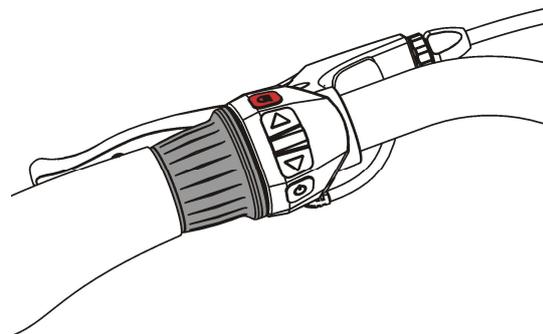
On and off

The display is turned on and off by pressing the on/off button in the left lever.



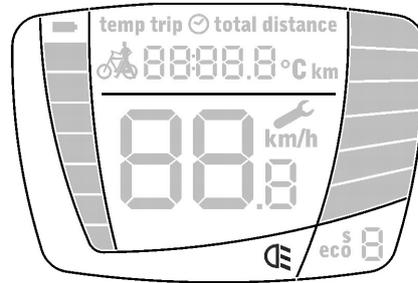
Front light

Turn on the front light by pressing the light button on the left lever.



You can also adjust the brightness of the display by pressing the light button persistently.

When the front light is on, the light indicator is shown in the display.



Driving speed

The current driving speed is shown in the display center area.



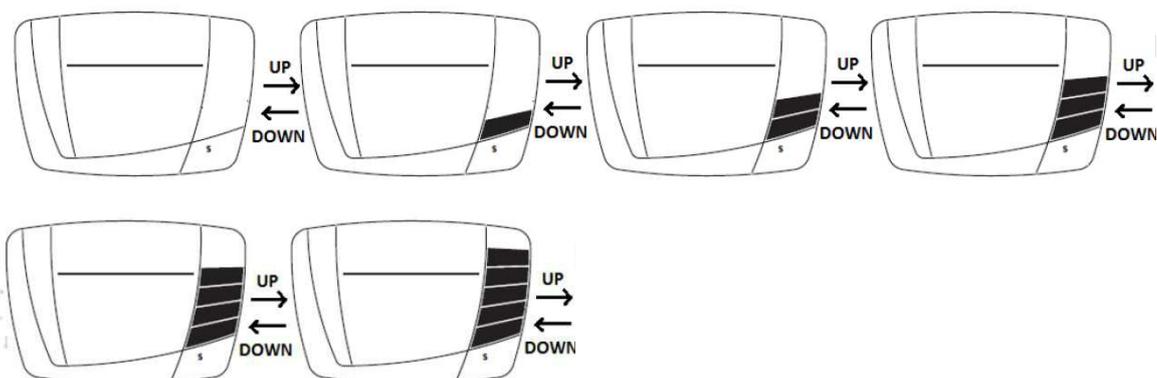
Battery indicator

The battery indicator is shown in the left side of the display. The indicator indicates the approximate battery level.



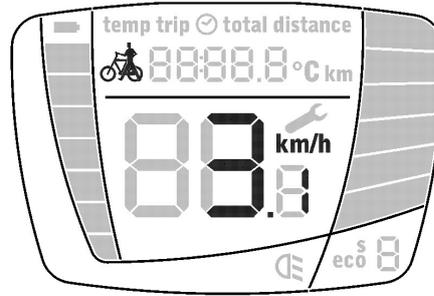
Assist level

The selected assist level is shown in the right side of the display. Please see below illustrations for assist level and speed.



”Walk-assist” feature

When the pedals are not activated, it is possible to use the ”walk-assist” feature by turning the throttle on the left lever. The corresponding indicator is shown in the display.



Trip information

In the upper display center area it is possible to view different information of relevance for the trip:

Trip distance



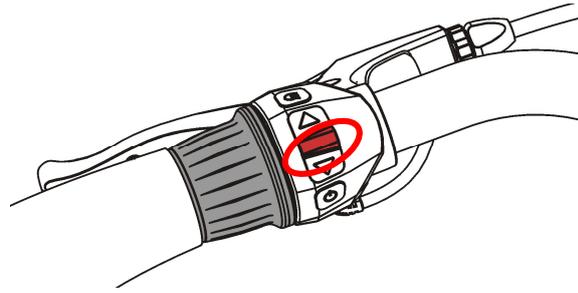
Total distance



ATTENTION!!

Caused by security reasons the assist level automatically change to level 1, when the speed is under 10km/h

Press the Mode button on the left lever to switch between the different options.
With the Mode button, it is also possible to adjust the wheel size.



Press the up or down arrow to increase or decrease the digits, then press the Mode button to change the next digit.

Wheel size explanation

The marked shows the circumference of the wheel in mm.
You find the circumference as described below



Press and hold up arrow for 10 sec. to change between mph and km/h.

The circumference of the wheel is found by measuring the distance around the wheel from the valve to the valve. Type the measured value in the



Throttle

The throttle has a “booster” effect which allows the throttle to overrule other assist settings. When the throttle is released the system will automatically return to the previous setting/assist level.

When not pedaling, you can activate the “walk assist” feature by turning the throttle. This feature is well suited for pulling the e-bike uphill.

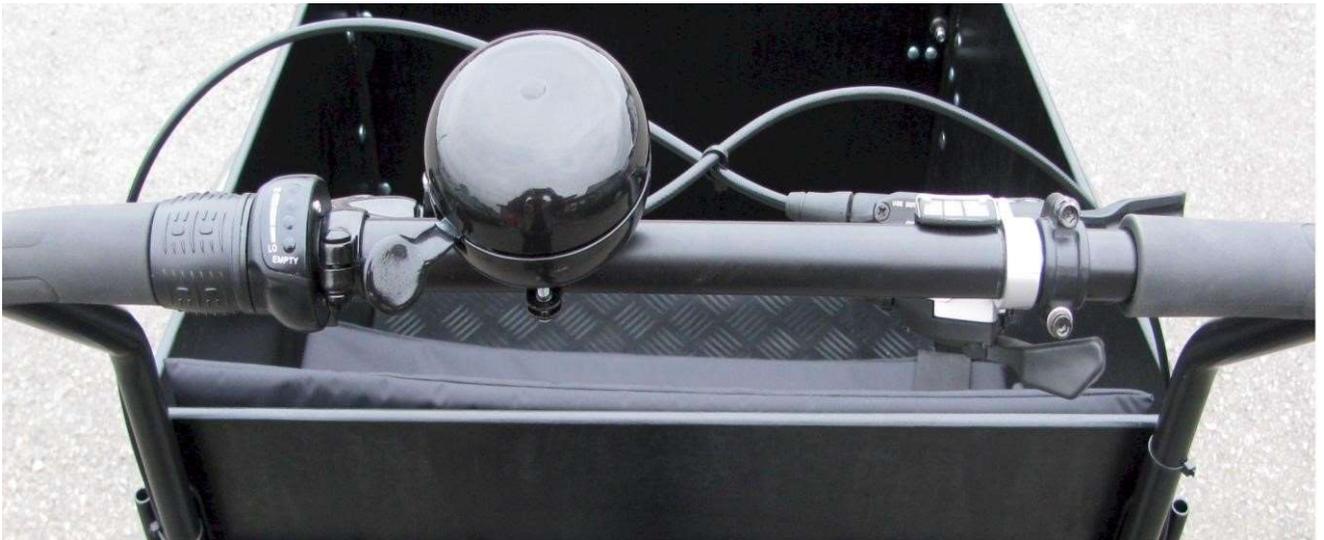
When the pedals and the throttle are activated simultaneously it is possible to variably adjust the speed up to max. speed level.

It is advisable to use the throttle when driving in heavy traffic.

This is suitable for brief accelerations when overtaking slow-moving cyclists and will allow you to react promptly.

The motor will disconnect at a speed of 24.6 km/h.

Gear lever



Shift the gear by turning the gear lever placed in the right side of the handlebar.

Choose the appropriate gear according to speed and wish.

Choose the speed by using the left hand throttle

Troubleshooting

The error indicator will appear in the display to show possible system errors. A code and a wrench symbol will show the error type.



The error code will appear in the “speed indication” space in the centre of the display.

Error code numbers range from 01 to 09 indicating the different error types.

Final error diagnosing requires skilled personnel. Contact your dealer for assistance.

Error code	Error	Solution
2	Motor error front and rear motor Power consumption too high.	Please check that the motor plug is assembled correctly. Change the innerpart on the motor unit.
3	Controller error front and rear motor	Change the controller unit.
4	Display with Throttle	Check that the throttle is in position “0” if okay change the throttle.
5	Brake sensor (if fitted) error front and rear motor	Place the handbrake in the starting position. Check sensor for damage.
8	Battery voltage (V)	Charge the battery and check that the voltage is at least 41.3 volts when the charger lights green in the charge indicator.
9	LED / LCD display	Battery voltage to high, check the battery voltage.

Mantling and dismantling of the battery



Turn the battery key (ON/OFF) to open position and take the battery out of the rack.

Mount the battery again by placing it in the rack and pushing it forward into position. Then turn the key to lock the battery.

Mounting of battery charger

Insert the plug of the battery charger into the battery.

You may charge the battery while mounted in the e-bike.

You may also choose to dis-mantle the battery and take it indoor for recharging



Driving instructions

- **Do not drive too fast; always have the trike under control.**
- **Do not drive faster than the conditions of the road and other circumstances allow.**
- **Slow down the speed going down hill**

The auxiliary engine works as follows:

When the pedals are activated a sensor sends a signal to the electronic steering (controller) which then starts the motor.

The power of the auxiliary engine is adjusted according to the chosen assist level. During the ride you may adjust the assist level according to actual need.

If you drive uphill, you may apply full power whereas when you go downhill you may disconnect the motor.

The electronic steering will automatically disconnect the motor when you stop pedaling. Likewise, the steering will disconnect the motor when your speed exceeds 24.6 km/h.

A fully charged battery has a range of about 25km

Battery charger

Use of battery charger

1. Charging must take place indoors.
2. Turn the key to off position.
3. Put the plug of the charger into the socket of the battery.
4. Put the mains plug (230v) into the power socket and switch on the charger.
5. The red diode will be on, as long as charging takes place.
6. When the diode changes from red to green, charging is complete and the e-bike is ready.
7. Turn off the charger before you remove the charger plug from the battery.

Charging

The Christiania Bikes electric uses maintenance-free Panasonic Li-ION batteries. Please note, that the battery can be dismantled.

The charging capacity of the battery is only 40% when delivered from the factory. Before commissioning it is therefore necessary to charge the battery to full capacity using the enclosed battery charger (Green diode is on).

In order to achieve maximum battery life and range of the Christiania Bikes we recommend that charging takes place in a heated room. By temperatures below 20°C prolonged charging time must be expected, with the result that charging of the battery to full capacity cannot take place which again leads to reduced driving range. Please note that the capacity of the battery will decrease when temperatures fall below 20°C.

Please also note that periods with low temperatures will influence the capacity and thus the performance of the battery negatively. This will change when the temperature increases to approx. 20°C.

Optimum battery charging conditions are at 20°C. If the battery is exposed to direct sunlight the battery life deteriorates considerably.

When the battery is taken indoors for charging, condensation may occur inside the battery as well as on the outside. Please therefore do not start charging until the condensation has disappeared. The battery contains a printed circuit board that controls each battery cell. If charging takes place while there is still some condensation in the battery this printed circuit board may be damaged.

Memory effect does not occur in Li-ION batteries. It is thus unnecessary to discharge the battery before starting a recharge.

Charging of the Li-ION battery at many frequent intervals may prolong the battery life. However, please note that once charging of the battery has been started you should not discontinue the process as this may have a negative influence on the battery life.

Rechargeable batteries must always be kept in dry conditions and dismantled from any equipment.

Do not pull the wires when dismantling the charger from the battery. Grab hold of the plug and pull it carefully out of the battery.

Never leave the battery in the charger when the charger is off.

Never leave your battery in your Christiania Bikes for a longer period.

Please note that the capacity of the battery will weaken over time and at lower temperatures. The more you use your Christiania Bikes the more the capacity will decrease thereby affecting the range. Over time the reduced battery performance will also be noticeable when driving in a hilly countryside. The battery life will normally allow charging/discharging up to 1.000 times.

Please also note that periods with low temperatures will influence the capacity and thus the performance of the battery negatively. This will change when the temperature increases to approx. 20°C.

Other parameters of major importance for the performance/ range are user weight, driving manners, terrain, surface and tire pressure.

The user himself/herself may also influence the performance/range depending on how much pedal power is used.

It costs only little to have the charger connected all the time, as the charger will switch to standby when the battery is charged to full capacity. However, the charger should not be connected for more than max. one week. The battery should then be removed from the charger and charging to full capacity should take place once a month (full charge = green diode on charger is on).

BATTERIES ARE FROM DANISH PRODUCER

Storage for the winter

If you put away your Christiania Bikes for a longer period (more than one month), it will be enough to charge the battery once a month.

Before putting the battery away for storage, you should make sure that it is fully charged, as the battery will be damaged by being left totally or partly discharged for a longer period.

Warning

- Do not heat, short, puncture or in any other way damage the battery.
- Do not divide or destroy the battery.
- Do not throw the battery into open fire.
- Do not lower the battery into water or any other liquid.
- When charging the battery only use the enclosed battery charger.
- Do not charge the battery at temperature below 0°C or above 45°C.
- Do not cover the battery charger.
- Disposal of used batteries must take place to companies with environmental approval or to public recycling centers

Disposal of battery

According to the European Union's WEEE Directive 2002/96/ EC on Waste of Electronic and Electrical Equipment special rules apply for disposal of batteries.

This symbol indicates that when the end-user wishes to discard battery products, it must be sent to separate collection facilities for recovery and recycling. By separating this product from other household-type waste, the volume of waste sent to incinerators or landfills will be reduced and natural resources will thus be conserved.



Please contact your dealer in case you have any questions.

Technical data

Christiania Bikes motor

Gear	8 gear / Sram x-4
Motor	250w brushless DC hub motor with planetary gear
Controller	PWM/microprocessor with self-diagnostic system
Overload (protection)	20 A
Low voltage (protection)	31.5 V
Mode	PAS (Pedal Assist System) (EU standard EN 15194)
Battery	17,4AH 36V Panasonic Li-ION, 626 watt hours, detachable, weight 3 kg Charging / discharging up till 1.000 times
Charger	Swift mode, sealed, charge time 5-7 hours
Load capacity	Max. 100 kg / Model Taxa 150 kg
Range	Up to 25 km

Warranty

Christiania Bikes grants a 24 months warranty on all damage, which is the result of production or material flaws.

However, the warranty on batteries is 6 months in so far as no self-inflicted harm, e.g. a complete discharge, has been made to the battery.

These warranty conditions shall only apply if the relevant warranty documents are available in their complete and correct form and are presented to your Christiania Bikes dealer immediately after ascertainment of the warranty reason.

Damage that may occur in consequence of a delayed notification of the warranty claim is not covered by the warranty. In case a defect is detected the e-bike must in no circumstances be used any longer.

Christiania Bikes guarantees that on the original day of the purchase the product is in perfect condition regarding material and manufacture.

Should it however turn out that, despite extensive quality control, defects are found within the warranty period Christiania Bikes will rectify (repair or replacement) the defects at no cost.

The warranty does not include repair of defects and damage that are the result of an accident, improper use, repairs carried out by an unauthorized repairman, alterations or modifications of the product, inappropriate storage, incorrect use compared to prescriptions, lack of maintenance or normal wear and tear.

If you should need to invoke the warranty you must take the product with the duly filled in warranty document and the original purchase invoice to your e-bike expert dealer before expiry of the warranty period.
In case the e-bike must be sent to the dealer by carrier you will have to carry the costs as well as the risk of damage/loss unless you have taken out insurance.

If a replacement product is offered within the scope of the warranty, ownership of this product passes at the time of replacement.

The returned product becomes the ownership of Christiania Bikes at the time of receipt at our premises.