

User manual & mounting instructions

Prior to installation, please read the complete mounting instructions carefully!

If you do not have the necessary skills or experience, please ask a specialist for assistance.

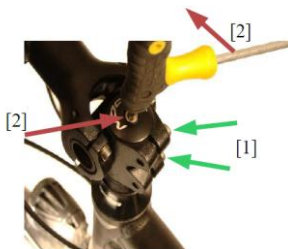
The charger must always be mounted to a metal device (like the head set or adapter) to dissipate the generated heat! Otherwise, the Cycle2Charge can be damaged.

5 Assembly on Ahead head set

Adapter assembly for handlebar → see page 22

5.1 Remove existing Ahead top cap

- Ensure that the screws of the stern (arrows [1]) are correctly tightened. (see manufacturers instructions for correct torque)
- Loosen the central screw completely (arrow [2]) and remove the existing top-cap



5.2 Cable routing

- The feed wire is threaded from the top through the openings of the star fangled nut.



- At some star fangled nuts the upper and lower openings are rotated against each other. In these cases the cable must be inserted skewed. A flashlight that lights from below in the head tube can facilitate this job.



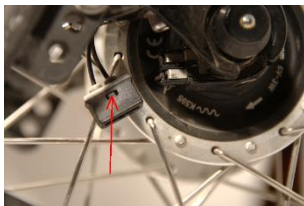
- Thread the cable so far through the head tube that the white plug is approx. 3 cm outside the head tube.
- Run the cable coming out of the head tube parallel to the existing cable of the front light down to the hub dynamo. The final cable fixation with the cable ties should be the very last assembly step.

The following description is made for a Shimano hub dynamo. If you use a different brand please follow the assembly steps of the dynamo manufacturer.

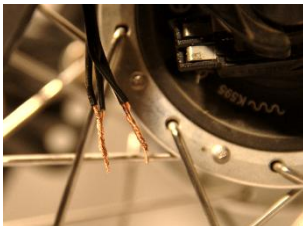
- Pull the plug off the dynamo



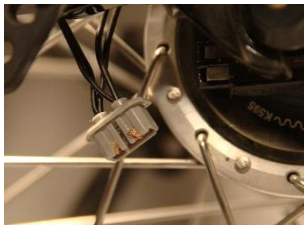
- Press with a small screwdriver on the locking pin (arrow) and remove the black cap of the plug.



- Pull the cables of the front light out off the plug and twist the stranded wires with the feed wire of the charger. The polarity does not matter.



- Thread the two twisted wires back into the gray plug and bend the copper wires according to the following picture.
Take care that the ends of the wires don't touch each other.



- Reassemble the black cap and put the plug back on the dynamo.



5.3 Assemble Cycle2Charge

- Push the white plug into the socket.
Take care that the plug is securely locked



- Fasten the Cycle2Charge with the delivered screw.

Take care that the cable does not get caught.



- Prior to the final tightening of the screw, rotate the Cycle2Charge to have the USB outlet in the preferred direction.

Attention: Don't rotate the Cycle2Charge several times around itself as this would damage the feed cable

- Now the allen screw can be tightened. After tightening the screw, the cap of the Cycle2Charge can be turned without the risk of damage to the cable or to change the direction of the USB outlet.

6 Assembly of the adapter

- Position the black aluminum adapter around the handlebar. The open part of the “C”-shaped adapter should be facing the front of the bicycle. The wider base with the 3 openings should be facing upwards.



- Thread the feed wire through one of the rectangular openings (see picture below). By choosing the left or right opening you define the direction of the USB outlet



- Push the white plug into the socket.
Ensure that the plug is securely locked



- Fasten the Cycle2Charge with the delivered allen screw. Take special care to tighten the screw only so much that the charger can't rotate on the adapter any more. If you over tighten the screw, the thread in the adapter can be damaged. On the other hand, if the charger still tends to rotate by turning the top cap, the cable and white plug can be damaged.

- Wind the feed cable once around the mounting screw to keep tensile forces away from the plug. Double check after the cable routing that the white plug is not under tension.



- Run the cable along the handlebar and the fork down to the dynamo. Chapter 5.2 describes the connection to the dynamo.

7 User manual

The USB-charger Cycle2Charge converts the energy of the dynamo in 5V DC voltage to power USB-devices.

The maximum charge current must stay below 1A.

To use the Cycle2Charge, the black top cap must be turned until the USB-outlet is accessible.

If no cable is connected to the USB outlet, the top cap has to be turned by 180° to protect the device from water and dirt.

On new products the black cap might move stiffly at the beginning. This will change over time. A certain resistance is needed to prevent an unwanted movement of the cap.

The USB-cable used should be as short as possible. Especially cheap long USB cables show a significant energy loss.

You should either charge a device or switch your bicycle lights on as a simultaneous usage will reduce the light energy and the charging speed significantly.

If you want to use the charging function you should

switch front and rear light completely off.
If you need light in the dark please stop the charging.

The charge current depends on the cycling speed and is adjusted automatically for the connected smartphone / GPS / battery. For some devices it is necessary to stop the charging for a very short time and restart the charge process. This might activate the display of your device. This is normal and intended of the Cycle2Charge. Therefore, it might be helpful to adjust a short display timeout time.

8 Contact

Cycle2Charge
Dirk Langhuber
Goerdelerstraße 5a
33102 Paderborn
Germany

www.cycle2charge.de