

Accessory for Lumi-Con-Energy-Harvester (Your Perfect Smart-Phone Supply during Biking)

Mounting Set USB-H

- Stainless Holder, 2 rubber sockets
- Hook-and-loop tape
- 2 Cable ties, 25cm
- 2 Cable ties, 10cm
- Cable with power connector
- Coupler for power connector (for USB-P only)*
- Instruction
- ➔ Details and mounting see datasheet USB-H



*) If you buy the H-set together with the harvester we solder the power coupler to the dynamo cable (10cm).

Battery type 18650 (replacement cell)

- 1 cell of type 18650, Ø18mm, length 65mm,
- cell capacity > 2500mAh
- cell capacity > 3500mAh



Connector for hub dynamo (Shimano**)

- 1 pcs of Shimano connector for hub dynamo

Power connector Ø5.5/1.9mm

- 1 pcs of power connector for soldering, Ø5.5/1.9mm



Power connector Ø5.5/1.9mm, soldered to cable, no fig.

- 1 pcs of power connector for soldering, Ø5.5/1.9mm
- soldered to cable, black, 1m



Power coupler Ø5.5/1.9mm

- 1 pcs of power coupler for soldering, Ø5.5/1.9mm

Power coupler Ø5.5/1.9mm /soldered to dynamo cable (10cm), no fig.

- 1 pcs of power coupler soldered to 1m cable, Ø5.5/1.9mm

Set of flat plugs to realize connectable dynamo cable

- 2 flat plugs 2.8 x 0.5mm, for soldering or crimping
- 2 sleeves for flat plugs 2.8 x 0.5mm, for soldering or crimping
- shrink hose Ø5 x 100mm
- mounting to cable on request



Flat plugs for SON dynamo hub

- 2 sleeves for flat plugs 4 x 0.5mm, for soldering or crimping
- shrink hose Ø5 x 50mm
- mounting to cable on request



Koax plug or koax coupler for SON dynamo hub

- several combinations possible, mounting on request, please ask.

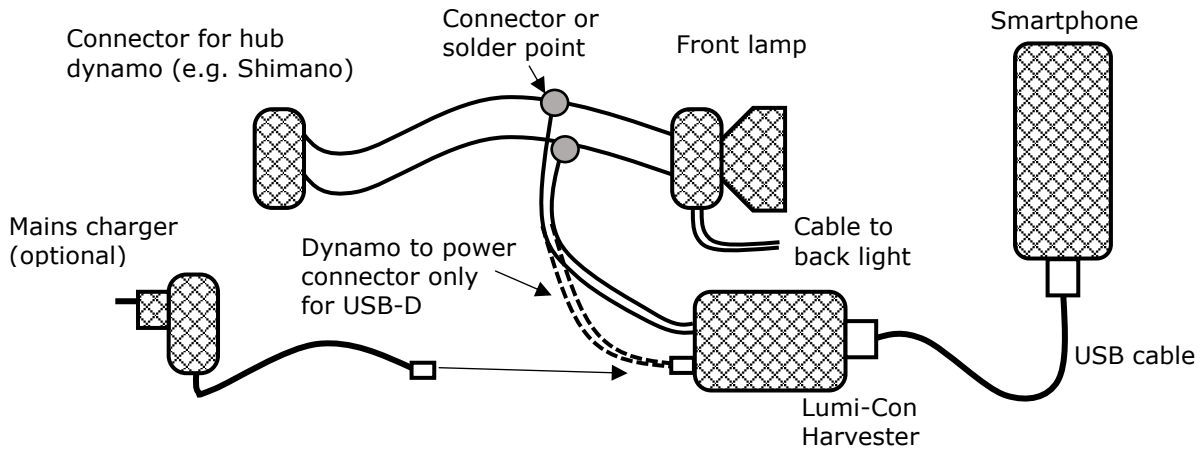
**) fits also to other hub dynamos, e.g. Shutter Precision.

Application: Connecting *Lumi-Con* Harvester to Bike Hub Dynamo

1) Connection to Hub Dynamo Connector (Shimano)

See datasheet_USB_D.pdf.

2) Connection to Dynamo Cable



The *Lumi-Con-Energy-Harvester* must be connected directly to the hub dynamo cable. Do not connect to the back light cable. **Please remove the plastic clips at the batteries inside the harvester before starting!** Beside the method using the dynamo connector you can directly attach to the dynamo cable. Here two examples:

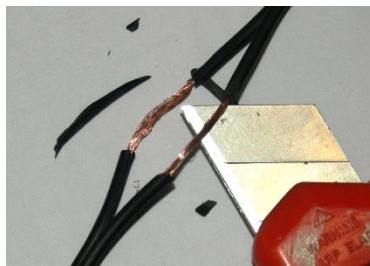
A) You can solder a connector (e.g. the flat plug set or the power connector/coupler set) to the dynamo cable. Then you can always easily disconnect the harvester (description below).

B) You can solder the cable permanently to the dynamo cable. Using the USB-D you can either use the dynamo cable or the power connector input as a connection to the dynamo.

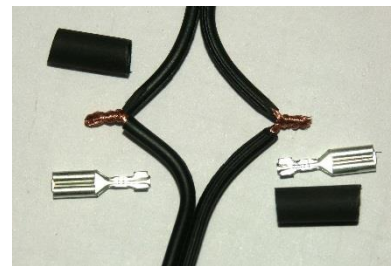
Fixing the connectors at the dynamo cable:



1) Separate the cable pair



2) Carefully remove the isolation of both wires, approx. 20mm



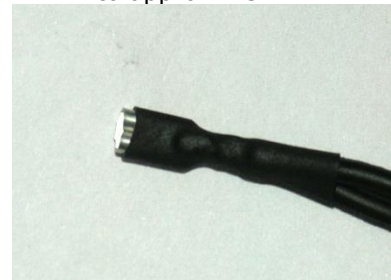
3) Twist the copper wires as shown, cut the shrink hose to approx. 15mm



4) Shift the hose on the cable as shown and solder the flat plug, do not heat the hose.



5) Shift the hose on the plug



6) Shrink with solder iron or hot air (hair dryer)