



operation manual

MBIQ-P



Dear Customer,

Please read the instructions carefully before using the device and keep them safe. If the device is passed on, these instructions must also be handed over. The manufacturer assumes no liability if the information in this manual is not observed. As part of further development, we reserve the right to change the product, packaging or description documents at any time.

Intended Use

The purchased device is a tuning product that may only be used in private, closed areas. For example for sports competitions and advertising purposes. E-bike tuning is not permitted in the area of road traffic regulations.

The current speed profile is analyzed, processed and, if tuning is activated, manipulated values are output. If the tuning is active, speeds over 25 km/h are blocked for the motor firmware, which means that the displayed speed always remains ≤ 25 km/h!

All brands mentioned are named solely to identify the models of motors / e-bikes / pedelecs with which our devices are compatible. They are the property of their respective owners and are otherwise in no way related to the product!

Technical specifications

Motor/connector system:	Compatible with Shimano mid-motors: <ul style="list-style-type: none">• EP8 (DU-EP800)...• EP8 RS
cable length:	approx. 150mm
Operating modes:	<ul style="list-style-type: none">• Permanently activated• Permanently disabled• Activation after switch-on condition
Power supply:	No separate supply necessary!
display	Manipulated values from approx. 22 km/h (Display remains < 25km/h until v-Max)
maximum support	programmable in stages

**When delivered, the device is in the mode:
"Tuning permanently active"
With highest support speed limit.**

Due to the operating principle, the displayed speed does not correspond to the actual speed when driving > 25 km/h. For this reason, your system's total mileage display will not correspond to the actual distance traveled when driving beyond this. Diagnoses / calculated values based on this will follow in the same way!

installation

⚠ Please remove the battery from the system before starting work!

To install the MBIQ-P, it must be integrated into the line of the existing speed sensor.

The sensor is located on the rear frame or next to the thru axle if applicable and works in conjunction with the magnet attached to the rear wheel or brake disc. The sensor cable is often routed through the frame (depending on the manufacturer). The connector end is plugged into the engine compartment, which is usually covered by a plastic cover and must be made accessible. The screws must be removed for this.

(It is advisable to use a PozidriveSize 1 screwdriver)

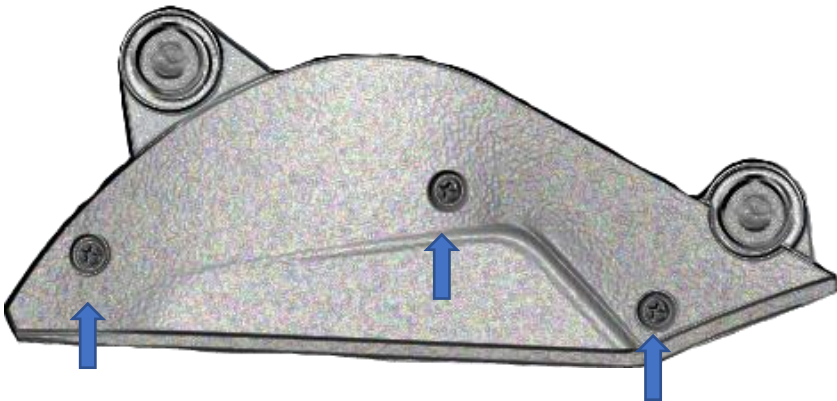


Fig. 1: Engine compartment cover of an EP8 engine

⚠ Danger: In some models, the motor is integrated in the frame, where it is necessary to loosen it completely in order to access the connections (e.g. ORBEA, ...).

The manufacturer's specifications such as tightening torque, etc. must be observed here!

If necessary, make sure you have found the correct plug by tracing the sensor cable and then carefully pull it out of the socket.

⚠ You can find a pin assignment plan in the manual for your motor!

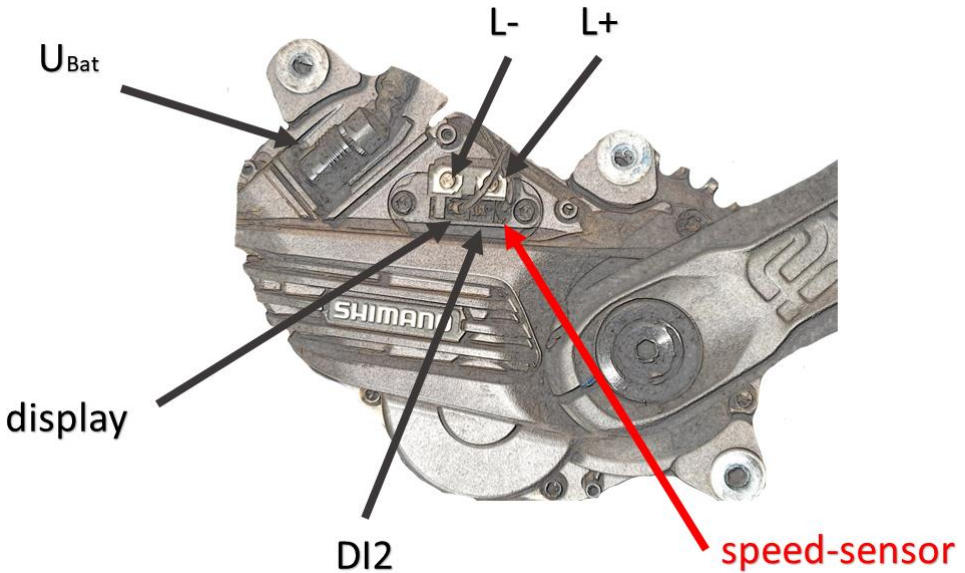


Fig. 2 Speed sensor connector end

The MBIQ-P must now be inserted between the connector and the motor connection. To do this, remove the sensor connector shown from the socket.

Installing the MBIQ-P

The plug of the speed sensor must be plugged into the socket of the MBIQ-P.
The MBIQ-P plug goes into the previously used socket on the moto connection.

△The MBIQ-P connector does not have the guides shown, but fits into the motor socket.

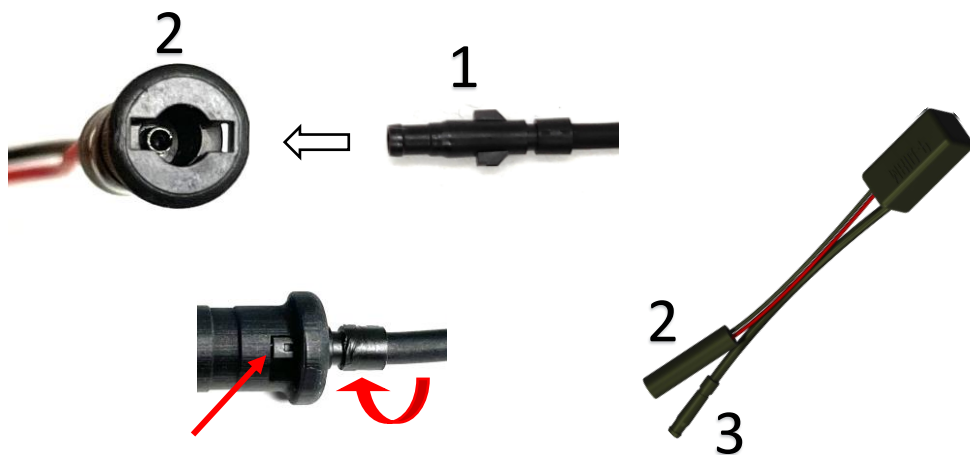


Fig. 3 Connections of the MBIQ-P

The male end of the speed sensor (1) is plugged into the socket (2).have toadjust the wings accordingly.

IMPORTANT: Push the plug (1) into the socket (2) until the wings stop, then twist as shown to ensure it is secure and cannot be pulled out.

The cable end (3) goes into the socket in the engine compartment. (see fig. 2)

△Some pressure is required, the connectors usually snap into place with a "click"!

You can then close the engine compartment again and put the system into operation.

operating modes

You can choose between three operating modes:

- Tuning permanently activated
- Tuning permanently disabled
- Tuning according to switch-on condition

1. Persistent tuning enabled

In this operating mode, the speed limit is permanently removed. The speed actually driven no longer corresponds to the displayed speed from approx. 25 km/h. Manipulated values ≤ 25 km/h are generated for the motor firmware.

2. Permanent tuning disabled

No lifting of the speed limit. The speed actually driven corresponds to the displayed speed. Support up to 25km/h.

3. Tuning according to switch-on condition





To activate the tuning, the magnet must be in front of the sensor for at least 4 seconds during startup. Otherwise the tuning is deactivated.

(the time is approximately the same as until the display is ready to go.)

Programming the operating modes and v-Max

To get to the programming mode, you must carry out the following procedure:

Before you start, turn off the wheel and wait a moment...

<p>Make sure the spoke magnet is level with the sensor before turning on the system.</p>	
<p>Then turn on the system.</p> <p>Important: The start of the system (e.g. LED goes on) counts for the further process, not the complete booting up of the display!</p>	
<p>Leave the magnet positioned in front of the sensor for about 3 seconds.</p>	
<p>Remove the magnet from the sensor for about 1 second</p>	

Attach the magnet again for at least **3 seconds** in front of the sensor to get to the operating mode menu. If you want to change the maximum speed supported, please wait at least **8 seconds!**



If the magnet is now removed, the tuning sensor jumps into programming mode.



If the process was carried out correctly, the display now shows the set operating mode or v-Max by outputting different speeds (explanation follows on the next page) on the respective display of your bike.


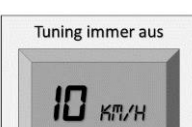
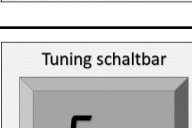
To navigate through the different operating modes or set speeds, all you have to do is turn the wheel. Each revolution (moving the magnet past the sensor) jumps one point / step further.

Make sure that the magnet is not in front of the sensor after the rotation!

⚠ *Decisive for setting the operating mode is not the exact value (this varies depending on the wheel circumference), but the order!*

If your system has an immobilizer using a transponder, this must be deactivated for the duration of the programming.

Choice of operating modes by coded output

<p>Tuning permanently activated</p> <p>(actual displayed speed may vary!)</p>	<p>Tuning immer an</p> 
<p>Tuning permanently disabled</p> <p>(actual displayed speed may vary!)</p>	<p>Tuning immer aus</p> 
<p>Tuning according to switch-on condition</p> <p>(actual displayed speed may vary!)</p>	<p>Tuning schaltbar</p> 

In case you nonelf you want to save changes, simply switch off your system, the last selected operating mode / v-Maxis then retained.

Would you like a changeto save, so bring the magnet in front of the sensor for at least 4 seconds.

After saving, the display shows 0 km/h and remains in this state.

Then restart the system!

Maximum backup speed

The setting of the limit value up to which speed support is to be carried out using the same procedure as for setting the operating mode. The displayed values correspond to the limit speed.

The tuning will run the assist up to about this indicated speed and increment the indicated speed.

Notices / Disclaimer

I expressly point out that e-bike tuning products may only be used in private, closed areas. For example for sports competitions and advertising purposes.

E-bike tuning is not permitted in the area of road traffic regulations. Use is at your own risk. No liability is assumed for any current or future damage to objects and/or persons caused by improper installation/addition and/or use. The guarantee of your e-bike will be limited or completely void through the use or application of the tuning, since the installation or use of the e-bike tuning represents a modification or manipulation of your e-bike.

If your e-bike has an operating permit, this usually expires as well. Please always drive carefully, use protective clothing such as helmets or protectors and do not endanger yourself or others.

Please also note that some manufacturers use analysis software to uncover sensor data manipulation and, if necessary, store this data permanently and evaluate it later. Since the tuning products on offer work according to the principle of speed manipulation, such logging cannot be ruled out even after firmware updates may have been carried out later.

No liability is accepted for any damage caused as a result. Please only put the product into operation if you are aware of it! Operation on public roads is expressly prohibited by the StVO! Violation can lead to criminal liability for driving without a license (§21 StVG) and/or driving without insurance cover (§6 PflVG). The same applies to the loss of accident victim assistance.

The existing components/materials of the wheel used may not be designed for long-term use with the tuning product.

Before using the system, please inquire about the current legal status and any consequences that may result from the installation.

The consumer is aware that any tuning measure or optimization of his vehicle can affect the service life and properties of a vehicle. The standard properties are changed in any case.

Disposal Instructions



The device must not be disposed of with household waste. This device is labeled in accordance with the European Directive 2002/96/EC on waste electrical and electronic equipment. The guideline provides the framework for EU-wide take-back and recycling of old devices. To return your old device, please use the return and collection systems available to you.

You can also return the tuning kit to your specialist dealer after use.

Manufacturer information:

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