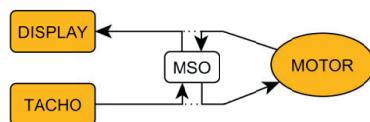


PearTune chip „Max Speed Off“

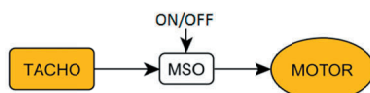
Functional description

PearTune chip 3.0 and 4.0 is an e-bike „chip tuning“ set (followed „chip“) used for removing the speed limiter of electric assisted bicycles with center drives **Bosch, Yamaha, Giant, Brose, Shimano, Panasonic, Bafang, Specialized, OLI, Sachs, TQ, SRAM, DJI and Fazua**. The chip is not stand alone functional. Installation should be carried out by a qualified person. The entire configuration and adaptation to the particular e-bike is done automatically after installation (plug-and-play).

① In the case of **BOSCH, YAMAHA, GIANT, BROSE, SPECIALIZED, PANASONIC, BAFANG** with CAN bus, **OLI, TQ, SRAM, DJI and SACHS** engines the chip is connected in between the magnetic speed sensor and the motor unit, and in between the display and the motor unit. Chip is powered from the display connector. All readings are correctly displayed (if there is not an exception stated within a given variant). The chip can be activated or deactivated anytime during the ride by pressing one of the control keys on the display, depending on the factory configuration and particular e-bike system. The device state is indicated by number „9.9“ (chip is activated) and „2.5“ or „4.0“ (chip is deactivated) for few seconds on the display, so the rider can easily recognize whether the device is active or not.



② In the case of **SHIMANO, FAZUA, Giant Revolt E+ and Bafang with UART** is the chip connected between the magnetic speed sensor and the motor unit. Chip is powered from the light's connector or speed sensor. SHIMANO version can be activated or deactivated by selecting lights control function in bicycle control menu or by LIGHT button. When the chip is active a displayed speed values are stopped at 20-25km/h or the values are divided by two (depends on chosen version).



Installation procedure

The installation and chip service menu manuals in pdf and videos for all chips are available on our websites: www.pear-control.com and also on our YouTube channel:



Usage

Chip can be activated/deactivated anytime during the ride by one or two short or long presses of LIGHT button or WALK button or buttons in - / + / - / + sequence. Original function of the walk button remains unchanged. Chip activity is indicated by value of 9.9 km/h or 6.2 mph (chip is ON) and 2.5 km/h (4.0 km/h) or 1.6 mph (2.5 mph) (chip is OFF) for few seconds on the display after activation/deactivation.

If you are planning to install the chip on new e-bike, make sure that you ride it for at least 1km before the chip is installed to avoid malfunctioning of the e-bike.

It is possible that, during a long ride at the speeds of over 25km/h with motor assist, some readings on the display may not immediately respond to their true values. After a certain amount of time w/o motor assist or at speeds below 25km/h, these values should always get corrected. After a long trip at higher speeds, we recommend not to turn off the e-bike immediately. The easiest way is to let the e-bike switch off itself automatically or to leave the bike ON after finishing ride until a value of 0.0 km/h (mph) is displayed.

Don't upgrade the software after installing the chip. The manufacturer is not responsible if the chip or e-bike does not work properly after the software upgrade caused by software incompatibility

Manufacturer

PearControl s.r.o.
Příkopy 1889
393 01 Pelhřimov
CZECH REPUBLIC
info@pear-control.com

Technical parameters

Dimension without wiring (l x w x h):	18 mm x 12 mm x 3 mm
Supply voltage range:	5 - 24 V
Maximum current consumption:	100 mA
Maximum power usage:	1.5W
Mass:	4 g – 30 g

Legislation

The manufacturer reserves the right to make changes. This manual is an integral part of the equipment sold. By using the equipment chip its user agrees that he will use the modified e-bike in accordance with the applicable legislation of the target country and so does even off-road; therefore, he/she is free to use it only on his/her own land or on land designated for that purpose. The user also acknowledges that the operation of bicycles outside their own land or land designated for this purpose with deactivated, but installed chip may not be in compliance with legislation. The manufacturer does not warrant non-infringement of bicycle warranties or impossibility of damage or blockage of the e-bike system. The manufacturer disclaims liability for any damages, whether in health or property associated with installing or using this product.

The manufacturer holds the certificate of electromagnetic compatibility testing - Compliance with EU regulations (CE marking) as well as the certificate of restriction of the use of Hazardous Substances (RoHS label).

