

# ***BIKESPEED-KEY***



## ***Yamaha with plugable Cable set***

for all Yamaha Syncdrive-C or Syncdrive-Sport engines from year 2014 to 2018, Syncdrive-Por engines from year 2017 to 2018, PW Powerdrive Unit engines from year 2014 to 2018 and PW-X and PW-SE engines from year 2017 to 2018

## **Product description**

bikespeed-key is a simple and compact kit consisting of a tuning-chip and a cable set to bypass the speed limit of 25km/h in Yamaha Pedelec engines.

The chip bisects the speedometer from a velocity of about 20km/h. This way, the scope of the support provided by the engine is enhanced to a maximum of 50km/h.

After installing <sup>1)</sup> the cable set, which can simply be put between engine and speed sensor, the chip can be plugged in and out at any time (even while riding).

## **Product Liability / Liability Exclusion**

We were not able to figure out whether running the bikespeed-key with the cable installed but without a chip plugged in is permitted on public roads. That is why we expressly point out that the mere installation of the interface may already be an offence against (german) road traffic regulations, driving without insurance, §6 obligatory-insurance law respectively! We therefore recommend using a modified bicycle on private property only. Running the bikespeed-key in public traffic is expressly prohibited by road traffic regulations!

Installing and running the bikespeed-key is done in personal responsibility; liabilities for damages or subsequent damages as well as legal consequences for bikespeed are excluded in every case.

Please inquire about legal consequences that may result for you from installing the system before you use it.

We expressly point out that using the bikespeed-key leads to a loss of warranty by the manufacturer. Furthermore there are no claims to product liability for your pedelec/e-bike viable for the manufacturer and bikespeed.

bikespeed especially cannot guarantee that brakes, frames, running gears, tires etc. are designed for the use of the tuning-component.

**Attention: Only plug the bikespeed-key into the connection cable provided. Never plug it into a USB-slot (e.g. on your PC)!**

## **Installation:**

**Attention:**

- Remove the battery before working on your bicycle!
- the installation may only be conducted by an expert!
- All information without guarantee!

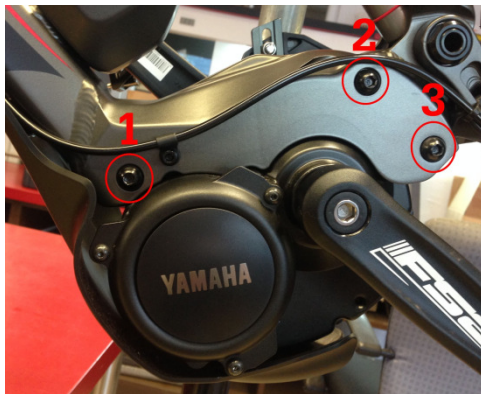
For the installation of the bikespeed-key with plugable cable set two of the three screws holding the engine have to be removed; the engine can easily be folded down and all of the connectors become accessible.

## **Installing the bikespeed-key cable set:**

**Tools required:** Allen Key (size 8, possibly further sizes for protective covers)

1. Remove the two front fastening screws (1+2) of the engine and slightly loosen the third one(3). This screw serves as a „hinge“ for folding down the engine.

In order to loosen these screws an Allen Key size 6 is required.



2. You possibly have to remove a plastic cover in order to get to the fastening screws of the engine.

Please look out for possible screws on the opposite side of that cover.



3. It is possible that your engine is attached to more screws of further covers. These have to be removed as well.

Let the engine slowly fold down and carefully set it at the hind wheel.

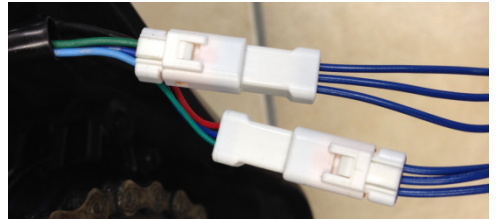
All necessary connectors are now accessible.



4. Loosen the white three pole connector; gently press down the fuse clip (see red arrow).



5. Connect the pins just loosened with the pins of the bikespeed cable set.



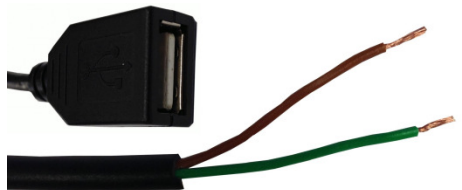
6. Attach the socket of the bikespeed cable set to the desired spot on your bicycle. Use e.g. cable ties in order to attach the socket and the cable.



7. Lead the cable to the area of the connectors

When placing the cable mind that it does not end up in the area of movable parts and attach it to the bicycle, e.g. with cable ties. The cable of the bikespeed-key cable set can be shortened to the length required.

8. Skin the brown and grey conductor of the bikespeed- cable set (USB-slot) by about 5mm.













We recommend not to tin-coat the ends!

- Connect the skinned conductors to the screw terminals. Use a slotted screwdriver with a 2.5mm blade to screw the cables in, or use the screwdriver included.



Please use the following classification for the connection of the cables:

<u>Yamaha speed-sensor</u>				<u>bikespeed-connection cable</u>	
green				black	
or green				brown	
blue				green	

The screw terminal for the green conductor of the bikespeed-cable set is additionally marked with a red point.

- Put the connectors into the hollow between engine and frame and lift the engine in order to first fasten the Allen screws provisionally and then fasten all three screws tightly (Please note the torque: keep to the specifications of the producer).
- Reattach all the covers removed before.
- Reinsert the battery.

Put the bikespeed-key into the socket of the cable set and off we go!



Have fun, your bikespeed-team!

**All statements without guarantee!**

<sup>1)</sup> We point out that the installation may only be carried out by an expert.





...for more info check [www.BIKESPEED.DE](http://www.BIKESPEED.DE)

## EC Declaration of Conformity

The manufacturer        bikespeed GmbH  
                                 Winterhaeuser Str. 109b  
                                 97084 Wuerzburg

Hereby declares that the following product:

Product name    :        bikespeed-key kit  
Production year:        2013-2018

is in accordance with all appropriate regulations of the EMV-guideline (EMC) 2004/108/EU as well as the RoHS-guideline 2011/65/EU.

Name of the documentation agent: Matthias Braun  
Adress of the documentation agent: see adress of the manufacturer

Wuerzburg,

01.01.2014        Matthias Braun, CEO



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Date

Signee

Signature