

# ***BIKESPEED-KEY***

## ***Active/Performance with Standard-Cable set***

for all Bosch Active- and Performance-Line Engines from year 2014 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 Bosch 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.

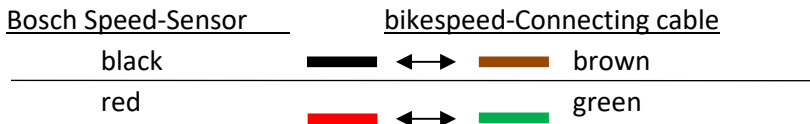
bikespeed especially cannot guarantee that brakes, frames, running gears, tires etc. are designed for the use of the tuning-component.

**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!

The bikespeed-key cable set is connected directly to the cable of the speed sensor. Both cables each have two conductors. Stick to the following color-schematic when connecting the cables:



Use the included terminals for the connection or solder the connection up.

To render the installation as invisible and protected as possible we recommend the connection directly to the drive mechanism. Furthermore, the connection at this point offers the advantage that the required conductors are accessible without removing the isolation of the cable or severing the cable.

For the installation point recommended by us you need to remove the treadle on the opposite side of the chain guide. Please follow our pictured instructions for the installation.

## **Installation of the bikespeed-key-cable set:**

Required tools: Allen key (Size 8), Crank puller (Lifu), Torx (T20), combination pliers

1. Remove the attachment screw of the treadle on the opposite side of the chain guide. (Left)

For most bicycles with a Bosch-engine you will need an Allen Key size 8 to do this.

2. Dismount the treadle with a suitable crank puller (e.g. picture: Lifu, used for most bicycles with a Bosch-engine)



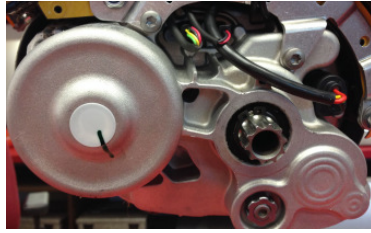
Screw the crank puller into the thread of the attachment screw and dismount the treadle with a suitable Allen key.



3. Remove the three screws of the gravel deflector. (tool: Torx T20)



4. Remove the gravel deflector.

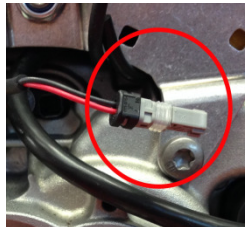


5. Remove the plug of the speed sensor.

The correct socket is marked red in the picture.



The removed plug is two-pole and grey.

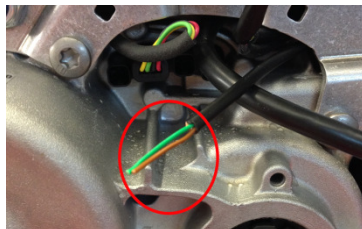


6. Fasten the socket of the bikespeed-cable set to the intended spot of your bicycle. Use e.g. cable strap to fasten the socket and the cable.

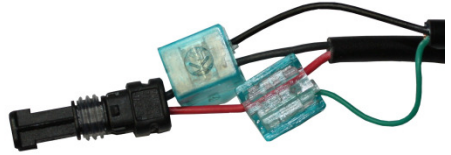


Carry the cable to the area of the gravel-deflector.

The cable of the bikespeed-key cable set can be shortened to the length required.



7. Connect the exposed conductors of the cable of the speed sensor to the conductors of the bikespeed cable set.

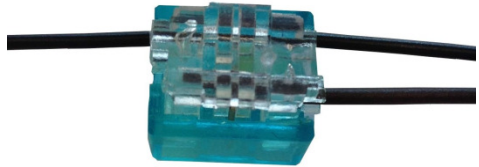


**Please mind the following notes!**

Classification of the colors of the conductors:

<u>Bosch Speed-Sensor</u>		<u>bikespeed- connection cable</u>
black	↔	brown
red	↔	green

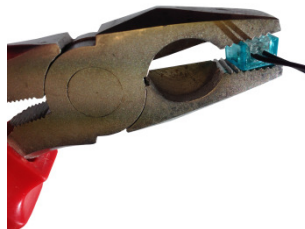
Before squeezing make absolutely sure that both conductors are parallel in the terminal. Also make sure the conductor of the bikespeed cable set is inserted far enough into the terminal.



Before the final squeeze the terminal can easily be pressed with your fingers and clicks into place in a still removable clamping-step. Please make sure that the cable fits correctly once again.



Use a pair of combination pliers for the final squeeze and press so long that the visible part of the terminal clicks flush into place in the blue part.



The finished connection must be flush grouted. Please check once again whether the cables run parallel and whether they are inserted far enough into the terminal.



8. Put the plug of the speed sensor into the socket again. The plug only fits into this socket and only in the correct directions. Please do not use force!
9. Assemble the gravel-deflector and the treadle in reverse order. (Keep to the tightening torques of the manufacturer! <sup>2)</sup>)
10. 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.
- <sup>2)</sup> [http://www.bikipedia.de/wp-content/uploads/downloads/ANTRIEBSSYSTEM\\_BOSCH.pdf](http://www.bikipedia.de/wp-content/uploads/downloads/ANTRIEBSSYSTEM_BOSCH.pdf)



...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,

01.08.2013      Matthias Braun, CEO



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Date

Signee

Signature