



StVO Modul

Product:	StVO-Modul Bafang BBS DIY
Type:	GRST0102
Product Ident.:	BBS20-BBS21
Date of Manufacturing	2019-2020

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Installation and User Manual for StVO Module

36V / 48V / 52V BB20-BB21



Preparation



The surface of the motor housing with the Bafang type and serial number should be free from dirt, oil, and grease residues before bonding

Tip: Take note of the data or take a photo

Removal the 3M adhesive protective film



Positioning in parallel and sticking on

Ensure proper adhesion by pressing firmly

Connecting the module to your system

Disconnect the connector of the controller cable and main wiring harness.

Connect the plugs to the module and follow the markings.

Secure & Check all cables and connections.

Power up the system.



The analysis of your controller and the backup of your original data is taking place. On some displays, for approx. 2 seconds the H30 message will appear. The automatic programming of the controller with the StVO data is now completed.

Backup Process

If the module needs to be removed and the original or personal data needs to be restored, the included GutRad Key can be used.



Hold the GutRad Key against the module's markings (circles) while turning on the system.

Once the display becomes active, the key can be removed and the previous settings will be restored.

Please note: While connecting the module (without the key), the data which is currently on the controller will always be stored in the module and the road traffic regulations (StVO) data will automatically be written.

Please note!

The use of non-certified gadgets like Eggrider, SpeedApp or similar cannot be used with the module and will cause damage to the connected hardware. Any liability under these circumstances is excluded by us.

Congratulations on your purchase of our innovative and high-quality **StVO module**.

Some questions have come up and we would like to provide a few tips and hints.

Therefore, we would like to point out the following:

- Higher performance and reprogramming of the controller while the module is connected is not possible and manipulation prohibited.
- The GutRad Key is a data recovery tool. We recommend storing it in a "secure place" and handle with care to prevent damages.
- You are in control of your saved data! If you decide that you no longer want to restore your personal data, disconnect the module from your system in StVO mode and reconnect it. Afterward, loading personal or original settings will no longer be possible.
- with a password-protected display, the system cannot be started using the GutRad Key

If you have any questions, please contact us at +49 7542-947991-1 or via our contact page.

If you are satisfied with us and especially with the product, please leave a review on our [website](#) or [Google](#).

We would greatly appreciate a positive experience and a review with a meaningful comment about the product and our service!



Team

Chanel, Stefan, Chrissy, Frank, Jozua, David, Dennis, Stephen uvm.



StVO Modul

GRST0102-BBS20

GRST0102-BBS21

GRST0103-BBSxx

for performance adjustment
for Bafang BBS mid-motors to the
Road Traffic Licensing Regulations

Field of application

The StVO module is used by private
manufacturers of bicycles with pedal assistance
to fulfil the

**REGULATION (EU) No.
168/2013 OF THE EUROPEAN
PARLIAMENT AND OF THE
COUNCIL of January 15, 2013
on the approval and market
surveillance of two-, three-
wheel and four-wheel
vehicles.**

**Pedal assistance
up to 25 km / h
and
250W rated continuous power**



Technical Data:

Typ	GRST0102-BBS20 GRST0102-BBS21 GRST0103-BBSxx
Operating current	5-10mA
Housing / color	ABS / black
Dimensions	B:40mm H:35mm T:65mm
Weight	0,375kg / 75gr
Protection Class	IP65
GRST0102-BBS20	MM.G320,MM.G340-36V-48V
GRST0102-BBS21	MM.G320,MM.G340-36V-52V

CE GutRad GmbH hereby declares that the
labeled products comply with the
applicable guidelines.

Notes:

Bike type:

Brand / Model:

Frame number:

Particularities:

Connection instructions:



Switch off the system, if necessary disconnect the battery from the motor!

- Disconnect the 8-pin Julet connector coming from the controller to the EB-Bus-cable.
- Insert the two plugs into the module and pay attention to the correct pin sequence and follow the markings on the plugs.
- Switch on the system.
- Your controller data will be saved and the performance adjustment will be done automatically!
- Ready for use

You have the option of attaching the module using the 3M adhesive surface directly on top of the laser engraving of the motor.
Clean the surface of the motor with thinner / acetone to ensure a strong hold.

If you want to load your existing data for test drives, make use of the GutRad magnet key (included in the scope of delivery).

Functions that are not permitted, such as an existing thumb throttle etc. are disabled. The parameters of the start-up or drive assistance as well as the settings of the wheel circumference remain unchanged!

Please check if these settings are correct set to ensure proper operation.

The module is designed for private manufacturers to adapt the performance limits of e-bikes to the current traffic regulations.

Herewith we confirm that any manipulation of the parameters of power and speed is excluded during operation while the module is connected!