

## Grip Heating System Installation instruction

Congratulations to your new Grip Heating. You've purchased a premium product with outstanding reliability and unique features. To make sure you can fully enjoy your product as intended, read this entire installation instruction carefully before starting any action. If any questions left, do not hesitate to contact us. We're happy to help.

### Installation

The heating cartridges are installed inside the handlebar, right underneath the grips. The handlebar must have an inner diameter which is slightly bigger than the outer diameter of the heating cartridges. Heating cartridges are available in sizes from 12-22mm, always in full mm.

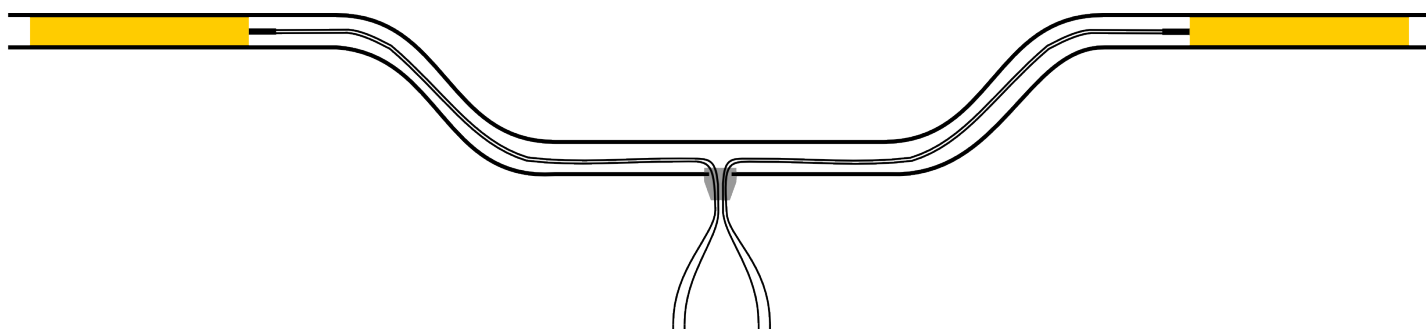


Fig. 1: Positioning of heating cartridges and cables

The supply cables are routed inside the handlebar. Therefore it's necessary to drill a downward facing 8mm hole in the middle of the handlebar. This hole must be located between the handlebar clamps. Deburr the hole properly after drilling and use the grommet to avoid any damage on the cables. If the handlebar shows any imperfections which protrude into its inside use a file or other appropriate tool to remove them. Roughen the handlebar tube at the intended position of the heating cartridges. Clean the tube with a solvent-soaked cloth or use brake cleaner from a spray can. Clean the heating cartridges with solvent, too. Install the cables of the heating cartridges through the handlebar. A „fish wire“ is very useful for this purpose. A solid copper lead of an installation cable is well suited. Use the attached 2-component adhesive to fixate the heating cartridges and to ensure a good heat transfer. Both the heating cartridges as well as the handlebar need to be dry, clean and free of fatty contaminations. Use the adhesive as follows: Fold the package, cut off an edge and squeeze out the complete content of both sachets. Mix until a uniform color is achieved and apply adhesive inside the handle bar and on the heating cartridges. The mixed adhesive has an open time of 180 min and cures within 24h at room temperature. To avoid loose grips we strongly recommend to fixate rubber grips with heat-resistant adhesive. You can use the same that is used to glue in the heating cartridges. Further portion packs of this adhesive are available from us. Do not use foam grips, as these exhibit poor heat transfer.

## Handle bar end weights / indicators (optional)

The heating cartridges can be equipped with inner threads (M6 or M8) at the end to mount handlebar end weights, hand protectors or handlebar indicators. The original fastening device of the aforementioned item is replaced by the heating cartridge, meaning that the handle bar end weights or equivalent are directly bolted on the heating cartridge. We recommend to leave a cylindrical extension at the handlebar end weights. This extension is intended to take up any side force if the motorcycle falls to the ground. The length of this cylindrical extension should be adjusted so that the heating cartridges can be centred underneath the grips. The image below displays the installation situation.

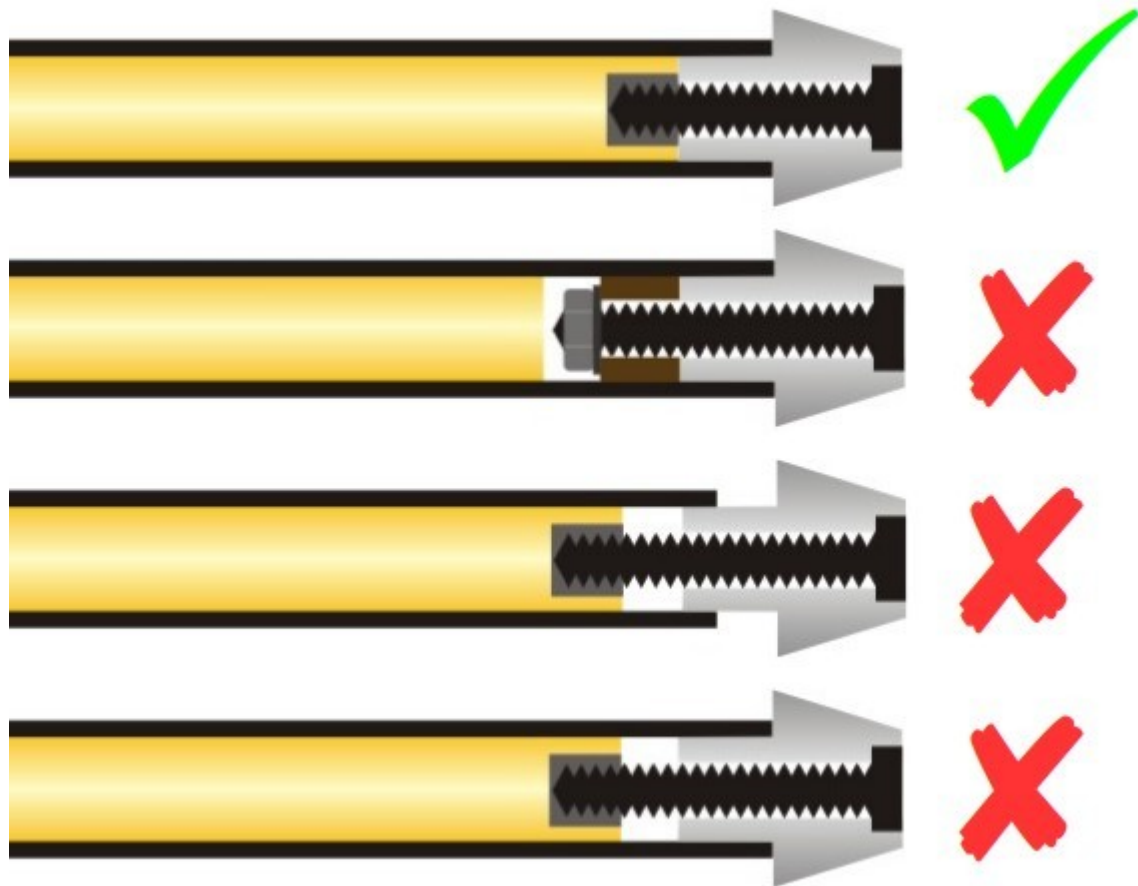


Fig. 2 Installation of handlebar end weights and similar stuff

## Electrical connection

### Standard version with 2-step switch

Solder the attached OEM-style round connectors to the cables of the heating cartridges, after the cables have been put through the handlebar's drilled hole. The heating cartridges are connected according to the circuit diagram. Make sure the +12V supply is switched by the ignition switch and the circuit is well fused. Otherwise the battery could get empty, if the grip heating is mistakenly left on after the end of the ride. A proven source of +12V is the lead between the ignition switch and the horn button. You may use the attached insulation displacement connectors for electrical connection, but we recommend properly soldered joints.

Switch in middle position = 0% power  
Switch in lower position = 25% power  
Switch in upper position = 100% power

The attached sealing cap features an integrated thread and can therefore replace the switch's upper hex nut. Use the attached flat plug sockets and the corresponding insulating sleeves to connect the switch. We recommend to solder the flat plug sockets. Crimp them only if you have a really professional crimping tool available.

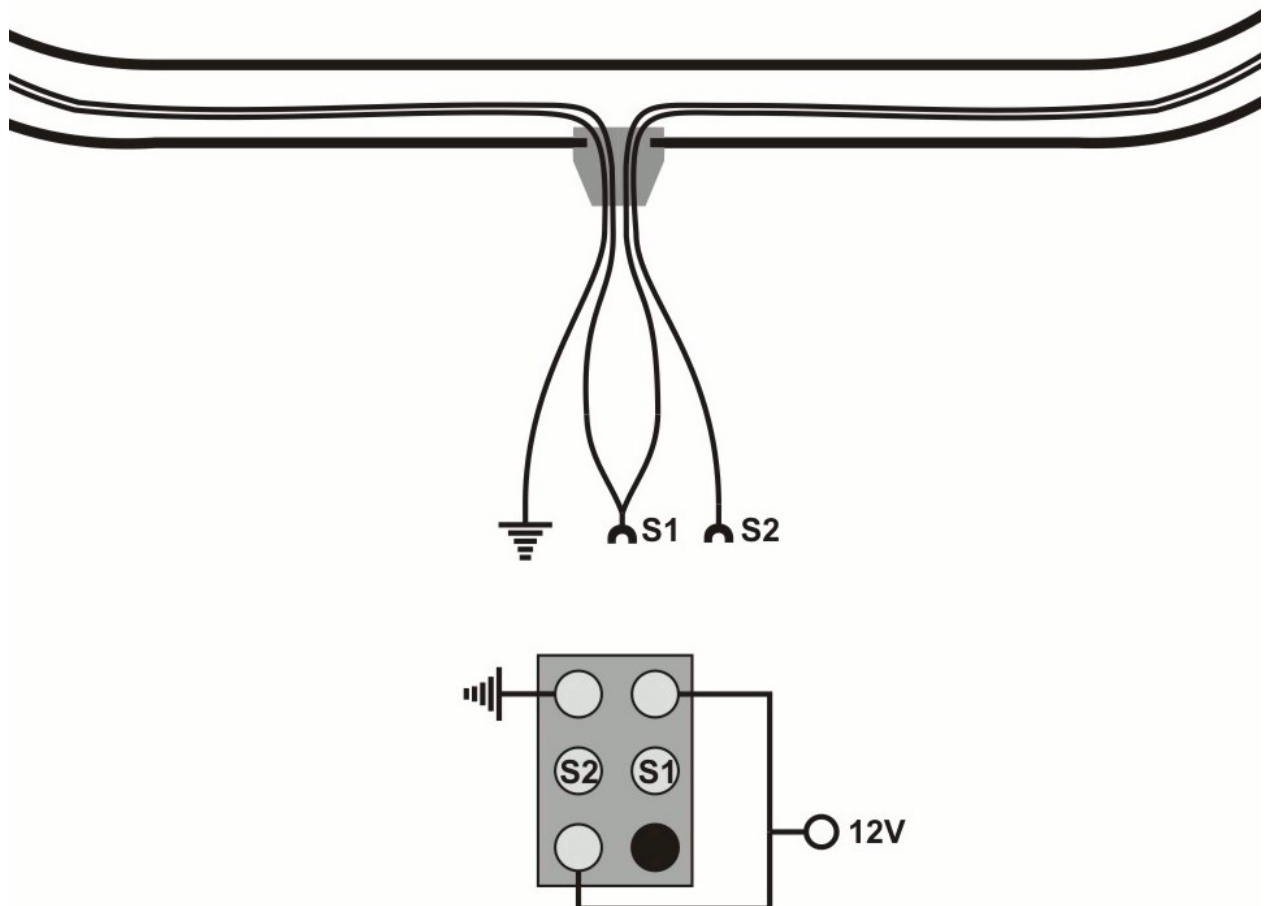


Fig 3: Circuit diagram for standard version with 2-step switch

## Deluxe version with electronic power control unit

The connection to the electronic power control unit is done according to the installation and operating instruction which comes with the power control unit. Solder the attached OEM-style round connectors to the cables of the heating cartridges, after the cables have been put through the handlebar's drilled hole.

**Important notice:** The heating cartridges may under no circumstances be operated if not properly installed. This will lead to overheating of the cartridges and destroy the system irreversibly. We cannot accept complaints resulting from improper installation and operation.

It is due to the system's nature that the installation is somewhat more complex. If you feel uncomfortable with the DIY installation, contact your local motorcycle garage. They'll be happy to help.