COOL RIDE

Grip Heating System

Installation and operating instructions

Standard and Deluxe version

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Printed in Germany

We congratulate you on the purchase of the Coolride Grip Heating System. With this you have acquired a premium product with outstanding reliability and unique features.

Please read these installation instructions carefully and thoroughly before installing your new grip heating system. If there are any further questions, we are happy to help you to answer them.

TYPE OF USE

The Coolride Grip Heating System is electric motorcycle accessory. It is used to heat motorcycle handles. Only for use on motorcycles, trikes, quads etc. with 12 V electrical system.

ASSEMBLY & COMPONENTS

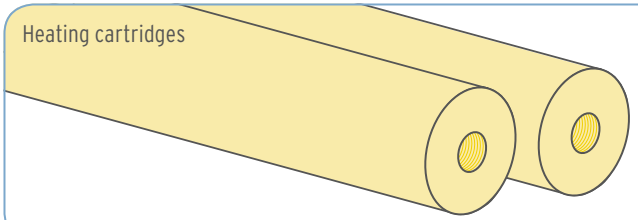
The installation of a Coolride grip heating system requires advanced knowledge in metalworking and electrics. We recommend installation by a specialist workshop.

1. PREPARATION

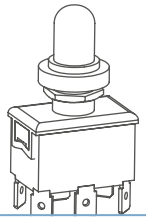
Disassemble the attachments at the end of the handlebar. Determine the ideal mounting position of the heating cartridges in the handlebar. The cartridges shall be located centrally underneath the grips. The length of the grips determines the installation depth. This is usually 15–20 mm. If necessary, pay attention to the space required for attachments such as handlebar ends.

Check if the heating cartridges can be inserted into the handlebar tube without force. If necessary, remove any unevenness or obstacles inside the handlebar with a long-shaft end mill (available from coolride.de) or other suitable tool. Do not try to install too large heating cartridges. If a total gap of more than 1 mm remains between the heating cartridge and the handlebar wall, you will need a larger size.

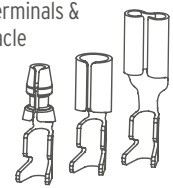
Heating cartridges



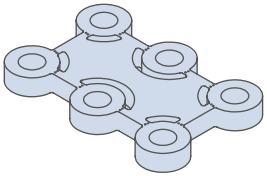
Toggle switch



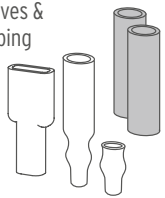
Bullet style terminals & Blade receptacle



Spacer disks

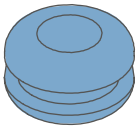


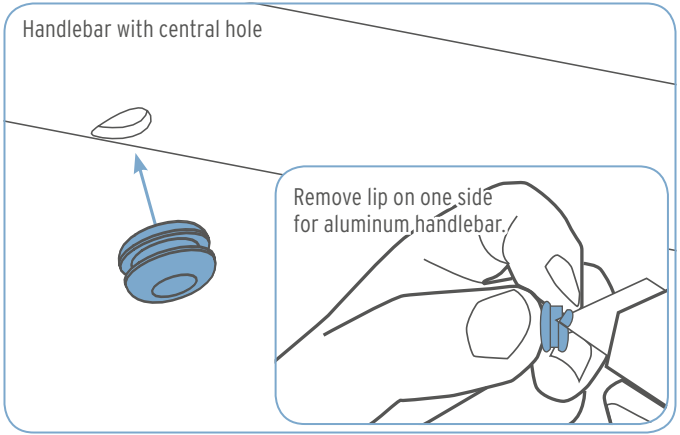
Insulating sleeves & heat shrink tubing



Adhesive

Grommet



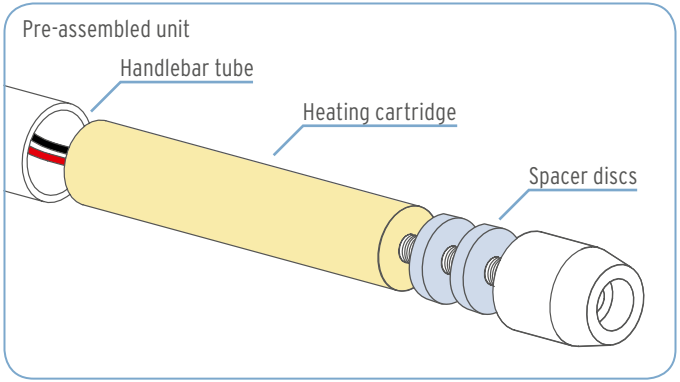


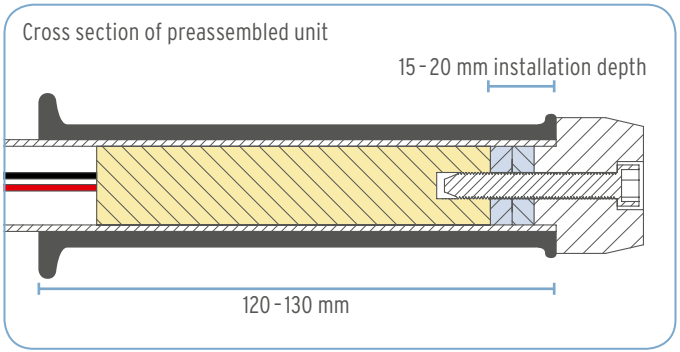
2. CABLE MANAGEMENT

Drill holes to let out the cables from the handlebar at a suitable location. You have the following options:

A If the handlebar is rigidly attached to the upper fork yoke, drill an 8 mm hole centrally between the handlebar clamps on the bottom of the handlebar.
Use the grommet provided to protect the cables from damage. The grommet fits as it is for steel handlebars. If you are using an aluminum handlebar, trim the grommet appropriately and fix it with superglue. Do not drill a hole between the handlebar clamps if they are connected elastically to the upper fork yoke! There is a risk of the handlebar to break!

B Alternatively, drill a 3–5 mm hole on each side of the handlebar underneath the switch units in order to route the connection cables into these. Subsequently pull them together with the original cables of the switch unit through their protective hose. Carefully select the location of the 3–5 mm holes so that the heating cartridge cables cannot be damaged. The holes must be carefully deburred from inside(!) and outside. We recommend a 3 mm ball end mill in a multitool, e.g. from Dremel. Instead of the grommet, use the enclosed heat shrink tubing to protect the cables in the hole.



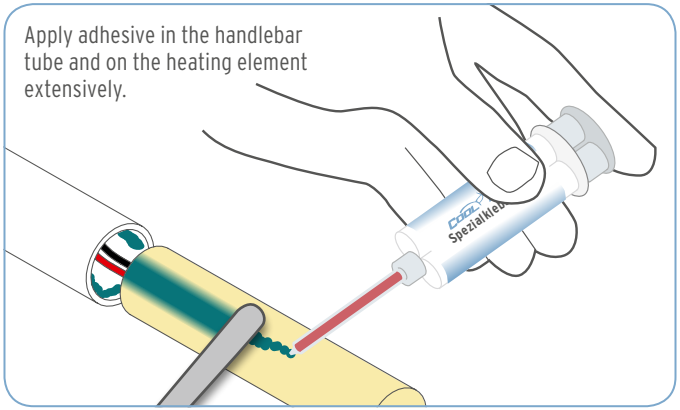


3. PRE-INSTALLATION WHEN USING BAR END WEIGHTS, MIRRORS OR HAND PROTECTORS (OPTIONAL)

Mount the add-on parts directly to the thread at the end of the heating cartridges before installation. The original fastening device is usually omitted. To thermally insulate the fixture and make the ideal mounting position of the heating cartridges, use the enclosed spacer disks.
If necessary, secure the screw with liquid threadlocker, especially when installing handguards. Only then execute the gluing as described below.

4. GLUEING GRIPS (OPTIONAL)

If the grips are not already glued, they should be fixed with heat-resistant adhesive so that they do not spin on the handlebar tube at elevated temperatures. The supplied adhesive is also well suited for this purpose. We recommend the use of metal or rubber handles; foam handles are unsuitable.



5. GLUEING OF THE HEATING CARTRIDGES IN THE HANDLEBAR TUBE

It is imperative that the heating cartridges are glued in using the enclosed two-component adhesive to ensure mechanical fixation and optimal heat transfer.

A Before glueing, the heating cartridge and the inside of the handlebar must be clean, dry and free of dust and grease. If necessary, grind the surfaces and clean them with solvent.

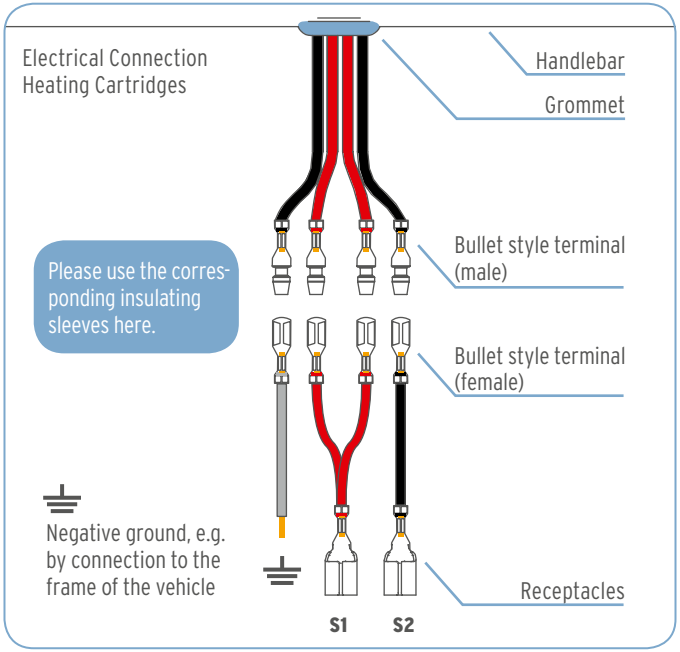
B Using a stiff wire soldered to the cables (e.g. solid copper wire, Bowden wire), pull the wires of the heating cartridge through the handlebar end into the handlebar and out through the prepared hole in the handlebar.

C Prepare the 2-component adhesive as indicated on its packaging. Apply the adhesive evenly on the inside of the handlebar as well as on the

heating cartridges. Slowly push the heating cartridges into their final position. Spread oozing adhesive on the heating cartridge. The gap between cartridge and handlebar tube must be filled completely with adhesive. Fix the construct of heating cartridge, spacers and bar end weight with adhesive tape for 30 minutes! The mixed adhesive has a working time of 5 min. Work properly and quickly!
It cures completely at 20 – 25 ° C within 3 hours.

6. ELECTRICAL CONNECTION

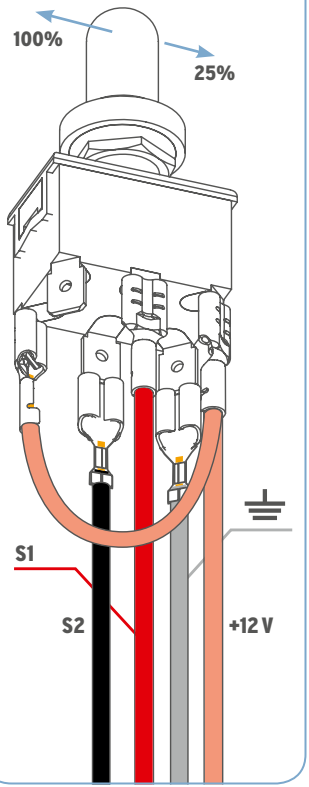
Using a suitable crimping tool, crimp the enclosed bullet style terminals to the wires of the heating cartridges after they have already been pulled through the hole in the handlebar.



A To the 2-level switch (if no power controller is used): The heating cartridges are connected according to the wiring diagram. Since the switch is symmetrical, it does not matter which side is at the top before wiring is started. The +12 V connection must be secured with 10 A and switched through the ignition switch, otherwise the battery could be drained if the grip heating system remains on after the end of the ride. It is proven practice to get +12V from the horn or the headlight. Even better is the use of a vehicle load relay, which is controlled by the ignition switch. The sealing cap of the switch is threaded and therefore can replace the upper nut of the same. The connection of the wires to the 2-stage switch is made with the enclosed blade receptacles and the matching insulating sleeves.
The blade receptables need to be crimped in a professional way, too.

Further information on the processing of the connectors can be found on our website at **www.coolride.de/manuals.** A suitable crimping tool and more useful tools are available from us.

Electrical connection
2-step switch



B Connecting the electronic power controller (deluxe version only): Connection to the electronic power controller is made according to the power controller's manual.

IMPORTANT NOTE

The cartridges must not be operated if they are not installed properly. Otherwise, the generated heat cannot be dissipated, the cartridges will overheat and get destroyed! Complaints due to improper installation and operation cannot be accepted.

TECHNICAL SPECIFICATIONS

Operating voltage:	12.0 – 14.4 V DC	Current consumption:	4.3 A at 12.0 V
Cable:	1.2 m FEP insulated stranded wire, 0.5 mm^2	Power consumption:	52 W at 12.0 V

WARRANTY

We grant a 5-year warranty on this product and all its components. Damage caused by disregarding this manual is excluded.

DISPOSAL

Should you need to dispose of this system someday, please note that electronic devices must not be disposed of with household waste. If possible, recycle the system. Your local authorities can inform you accordingly.

EU CONFORMITY

This product complies with the requirements of applicable European and national directives. Conformity has been verified, the corresponding declarations and documents are deposited with the manufacturer.

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