

## General installation instructions

**CAUTION!** The power resistor gets hot during operation! Attach it to the frame with cable ties and position it so that no electrical wires, hoses, or other parts are affected.

The ground connection of the heating cartridges is established using the black ground cable. To do this, plug the bullet style terminals on the black strands of the heating cartridges into the corresponding terminals of the ground cable and connect the ring cable lug with a screw to a corresponding thread in the frame. Make sure the selected connection point is free of corrosion and dirt. Thoroughly tighten the fastening screw and, if necessary, use an anti-corrosion agent, alternatively terminal grease, silicone grease or similar.

## Operation

After the 50% kit has been successfully installed, the grip heating system is operated as usual, i.e. the 2-step switch of the Standard System is off when the lever is in the middle, the lever pointing downwards is 50% and upwards 100% power.

With older BMW models or alternative switches, it is basically the same: middle is off, downwards (BMW heated grip symbol) 50%, upwards 100%.

## Warranty

We grant a **full 5-year warranty** on this product and all its components in line with our general warranty policy. Damages which result from disregard of the herein given instructions are excluded.

## Disposal



If you need to dispose of this equipment one day, please note that no electronic device may be disposed through household waste. Dispose the device, if possible, at a recycling centre. Your local authorities may inform you accordingly.

## EC Conformity



This product complies with current European and national directives inside the European Community. Conformity has been proven, the respective declarations and documents are deposited at the manufacturer of this product.



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## **Modification kit 50%** Installation manual

Please read the instructions carefully before any attempt of installation. Connecting a 50% kit requires advanced knowledge of vehicle electrics. We recommend installation by a specialist workshop. If you have any questions, we will be happy to answer them.

## Field of application

This 50% modification kit is accessory to Coolride heating cartridges and grip heating systems.

There are 3 application scenarios:

- Modification of the 2-step toggle switch** that comes with the Coolride Grip Heating Systems Standard or Basic from 25% (low)/ 100% (high) to 50% (low)/ 100% (high) power.
- Use of a standard rocker or toggle switch** with at least 6A load capacity and SPDT configuration. Together with the 50% kit, this also offers 50% and 100% performance. Alternatively, a spare switch already present at the vehicle that is otherwise not required can be used together with the 50% kit to adjust the output of the heating cartridges.
- Conversion of the 2-stage rocker switch of older BMW models** for use with Coolride heating cartridges. The power output will be 50% (low)/ 100% (high). The use of this 50% kit is mandatory to avoid cable fires. The original BMW resistance cable is not designed for use with Coolride heating cartridges. Suitable among others for the following models, provided they have the switch for BMW heated grips as shown here.  
Model year 1985 or younger: R65, R65RT, R80, R80RT, R100RS, R100RT; Paralever model year 1991 or younger: R80GS, R100GS, R80GS PD, R100GS PD, R80R, R100R, K100, K100/2, K100RS, K100RT, K100LT, K75, K75C, K75/2, K75S, K75RT, K1, K100RS 16V, K1100LT, K1100RS, R1100R, R850R



Only for use on motorcycles, trikes, quads etc. with 12V electric system.

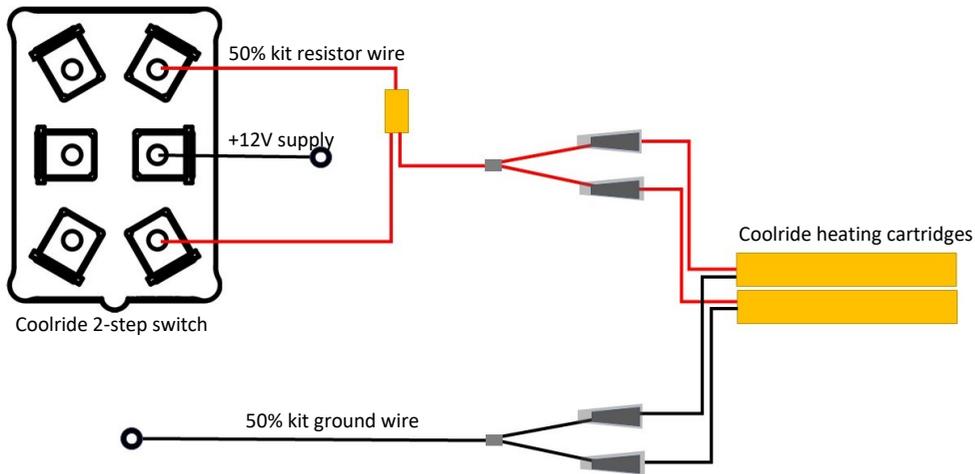
## Scope of supply

- wire with power resistor, red
- ground wire, black
- 3 flat receptacles 6,3mm
- 3 insulating sleeves for 6,3mm flat receptacles

## Electrical connection

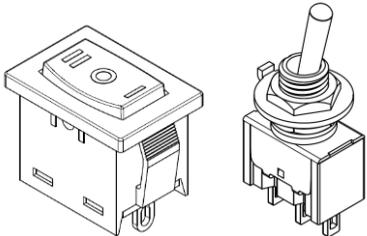
The 50% kit is connected according to the diagram below:

### Option a) Modification of Coolride Standard or Basic Grip Heating Systems

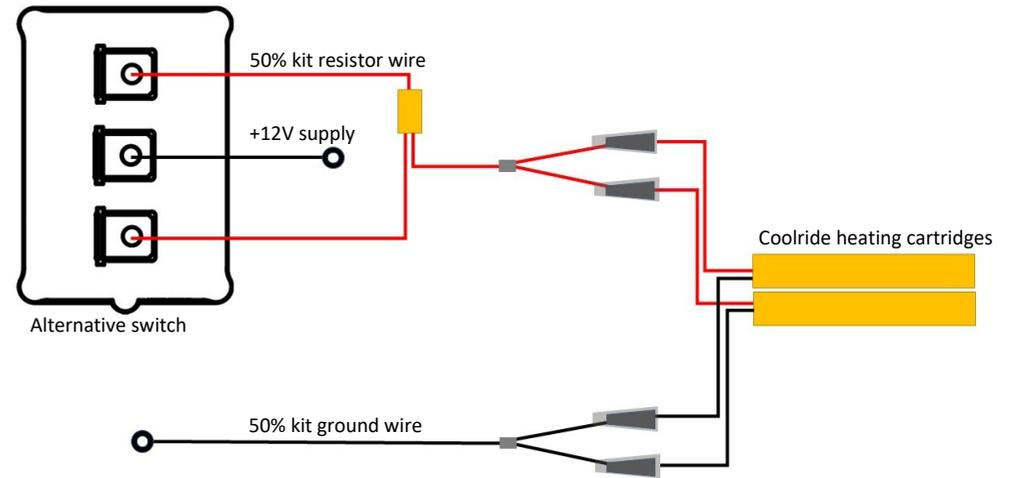


- Use the flat receptacles supplied to connect the resistance wire and the 12V supply line to the lugs of the switch.
- Use a 10A fuse in the 12V supply line as indicated in the grip heating system's manual.
- The orientation of the switch is irrelevant. I.e. you can use either the right or left row of lugs on the switch. But only use the lugs from one side.
- Follow the general installation instruction (see below).

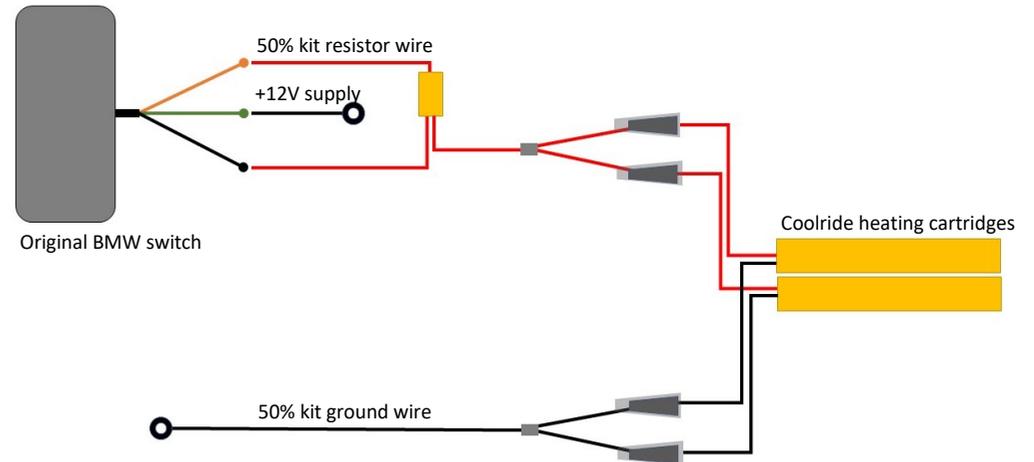
### Option b): Use of an alternative switch (SPDT; On-Off-On; 6A DC)



Examples of alternative switches with 3 lugs



### Option c): Conversion of the BMW 2-step switch



For BMW models, the red Coolride resistor wire replaces the orange resistance cable that connects to the BMW rocker switch. Cut off the 3-pin connector on the hot grip switch and connect wires as shown above.

The stock resistance cable in the motorcycle must be replaced by the 50% kit when using Coolride heating cartridges to avoid overloading the original resistance cable and the risk of fire!