



Motorcycle/Scooter Heated Grips ACE-HG20 User Manual

Thanks for purchasing our heated grips. For smooth installation, we recommend you read the guide carefully and follow the steps below. During installation, please be careful not to damage the wiring or pull wire out of the terminals in the multipin plugs. If you have any doubts about the installation then please contact your grips supplier for advice or arrange for professional installation.

Plug and play adaptor cables have been developed for some vehicle. Check with your grip supplier which they can offer.

**** PLEASE NOTE THE FOLLOWING SAFETY INFORMATION ****

- **DO NOT HOLD THE GRIPS WITH BARE HANDS! ALWAYS WEAR GLOVES TO AVOID BURNS!**
- **SWITCHING THE GRIPS ON FOR MORE THAN A FEW SECONDS IF NOT FITTED TO THE HANDLEBARS WILL CAUSE DAMAGE TO THE GRIPS AND MAY WARP THE INNER TUBE**
- **THE CONTROL BUTTON IS AN ELECTRONIC MICROSWITCH AND ONLY REQUIRES A GENTLE PRESS. PLEASE DO NOT TRY TO PULL THE BUTTON OUT TO CLEAN IT, DOING SO WILL DESTROY THE SILICONE AND IT WILL NOT BE POSSIBLE TO REINSTALL THE BUTTON.**

COMPONENTS

- ① 1 × Left Grip with temperature controller button.
- ② 1 × Right grip.
- ③ 1 × Connecting wire or bike specific plug and play cable.
- ④ 2 × Cable tie
- ⑤ 2 × Bar-end cap

FEATURES

- ACEWELL grips fit any 7/8" / 22mm handlebars to work with existing twist grip throttle tubes.
- Push button temperature controller and power level display built into left grip allows an easy installation and no need for additional switches.
- 5 levels of grip heat temperature with fast-heat at power on.
- 5 color illumination of the control button to indicate selected temperature.
- The integrated control/display module keeps the original look of the bike but still allows full functionality of the grips.
- Memory function enables to retain the heat level from previous setting after rebooting the vehicle.
- Classic slimline design which suits all types of motorcycle and scooter.
- Optional thumb heat pad available.
- Hard wearing and anti-slip silicone outer layer giving soft but durable texture.
- Low voltage detection - the grips automatically switch off to help protect against a flat battery
- Simple installation with minimal wiring and detailed fitting instructions.

INSTALLATION & WIRING

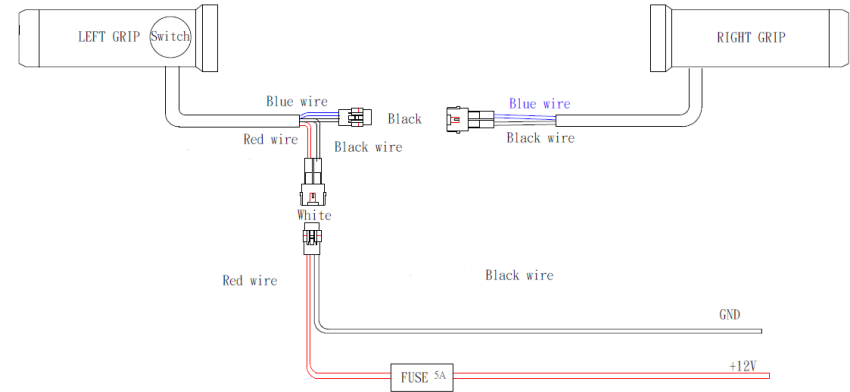
ACE-HG20

1. Use the appropriate tool to remove the existing grips.
Clean the handlebars and throttle tube as applicable with solvent and ensure the bars are free of residue and glue.
2. Slide the Right grip onto throttle sleeve and then the Left grip onto the handlebar.

Apply Epoxy into the handlebar or throttle sleeve to hold the grips securely in place.

Align the grips so that the cables point downwards and the control switch (button) can be easily pressed with your thumb.

3. Connect the plug and play cable or the power tails to the left grip. If using the power tails then the black wire should connect to negative (battery -) and red wire to positive (+12v)
The grips feature an automatic power off function to save your battery so they can be connected to either an ignition live or directly to the battery depending on your preference
4. Connect the Right twist throttle grip to the Left grip.
5. After installation, swing the handlebar left to right to ensure nothing obstructs the movement.



OPERATION

These heated grips feature a microprocessor controlled battery saver function, which tries to ensure that you don't incur a flat battery due to having your heated grips switched on when the engine is not running.

This function can be disabled if not required, or customized to the voltages on your vehicle.

The grips measure the voltage on the wire entering the grip. Due to voltage drops, the voltage detected when the grips are connected directly to a battery will be different to the voltage detected when connected after the ignition key.

Follow the instructions in the "VOLTAGE SETTING" section below to set up the battery saver function.

• POWER ON

Press and hold the button for 10 secs, the red LED will flash fast once per second for 30 secs indicating that the grips are in start-up fast warm mode.

• AUTO-ON/OFF:

If the voltage drops below the "OFF" voltage for more than 6 seconds then the red LED light in the grip will flash quickly (twice per second) for 30 seconds while continuing to heat the grips

During the 30 seconds, you may choose the voltage and heat level that work best, and the LED will indicate its corresponding heat level.

After the 30 secs, the LED will flash slowly for 10 minutes and the grips enter "SLEEP MODE", in which the buttons allow the grips to be switched off but not to select a different heat level.

If you press the button again, both the LED and the heat level resume to your previous heat level.

If the engine is restarted before the 10 minutes of standby mode expires then the grips switch back on to their preset heat level and all timers are reset.

If the engine is not restarted before the standby mode expires then the grips enter "SLEEP MODE", the LED will extinguish and you'll need to press the power button to switch the grips on again once the engine has been restarted.

● **CHANGE THE HEAT LEVEL**

Press the button to select your desired heat level.

Heat Level	1	2	3	4	5
LED display	Blue	Cyan	Purple	Yellow	Red
Heat / PWM %	20%	40%	60%	80%	100%

(PWM = Pulse width modulation – an energy efficient way to regulate the heat)

● **POWER OFF**

Press and hold the button for 3 secs.

● **VOLTAGE SETTING (see the below table):**

Choose a voltage setting that works best for your vehicle, try to find the setting which brings your grips on when the engine starts and revs are increased, but only switches them off when the engine stops (not at idle). Don't forget headlights on and off will affect the voltage if you wire into the bike near the headlight supply wires.

If you find that the grips switch off too often then lower the voltage setting.

If the grips don't switch off when the engine stops then raise the voltage setting.

When you receive your new grips the factory default setting is Purple and they will switch off at 12.2v

Press the button for 5 seconds to switch on the grips and then immediately press for another 10 seconds to enter setup mode. While pressing the button for 10 seconds the LED will go out and then start flashing green 5 times.

When the green flashing LED is observed release the button and the LED will illuminate to show the selected voltage mode.

Press the control button repeatedly to switch between voltage modes then press and hold the control button for 3 seconds to save the mode and switch off the grips. Press the power button again for 5 seconds to switch them back on.

If you don't save the setting by holding the button for 3 seconds the grips will switch off after 60 seconds.

Voltage Settings		
<i>Display</i>	<i>Off Volts</i>	<i>On Volts</i>
Green	Battery saver disabled	
Blue	11.8v	12.6v
Cyan	12.0v	12.8v
Purple	12.2v	13.0v
Yellow	12.4v	13.2v
Red	12.6v	13.4v
White	12.8v	13.6v

SPECIFICATION

Power Input: DC 12V only, max 50W
Fuse Type: 5A
Grip Material: LSR (silicone) outer layer