



Thermostatic Controller User Instructions

will now flash, repeat as per 1st digit until correct time has been set pressing PWR to save. **Time only needs to be set if using timers.**

To set an ON-timer press UP button UNTIL TIME APPEARS. Press PWR to move until timer 1 is shown, press < to change to ON, press PWR and now set the desired time.

To set an OFF-timer press PWR button until timer 2 is shown, press < to change to ON, press okay and now set the desired time.

To set timers, see timer setting section.

PWR Button

The PWR button can be used to interrogate the heater when the current time is displayed.

- 1 - Press will show current ambient temperature within vehicle,
- 2 - Will show temperature that the thermostat is set to currently.
- 3 - Will show battery voltage.
- 4 - Will show current altitude above sea level (+/- 100m)
- 5 - Press will show any stored error codes. (E00 is not an error)

< Button

Pressing this will increase (up button)

> Button

Pressing this will decrease (down button)

PWR Button

To turn heater on press and hold, display will show ON

To turn heater OFF, press and hold until OFF is displayed.

Timer setting (setting timers is not necessary to the function of your new heater)

There are 2 timers, timer 1 is an ON TIMER, timer 2 is an OFF TIMER.

Let's say you want the heater to come on at 7am and then off again at 10am.

Assume current time on display is 6pm (18:00 hrs)

Press PWR button until you see Timer 1, press UP arrow to change to on and press PWR button.

Timer will now display 00:00 or similar. 00: is hours :00 is minutes

If you want the heater to come on at 7am and the current time is 6pm you now need to set the delay time. Thus you set the countdown timer to start after 13 hours (13:00) (6pm to 7am = 13 hours) now press PWR.

Timer 2 will now appear. If you require heater to turn off again you need to also set timer 2, press up arrow to change to ON and then set delay. To set for 10am delay would be 16 hours, screen should read 16:00, press PWR to confirm.

If set correctly and saved heater will start at 7am and switch off again at 10am.

If you do not set an off timer, heater will remain on until you turn it off via the PWR button.

Timers are a single shot and need to be set each time you require to come on / off, they are not repetitive.

Low temperature running

As demonstrated on installation day, your heater uses a conjoined fan to circulate the hot air within your vehicle and also within the sealed combustion chamber. When running at lower temperatures for prolonged periods it is essential that you increase the heater temperature to maximum and let it clear the combustion chamber build up via the exhaust. This should be carried out every few days for approx. 5 minutes. Failure to follow this procedure can lead to an E10 error code, this means combustion error normally associated with a blocked exhaust. This will need to be cleared.

Error Codes

Common user errors

E01 – Low voltage – your heater is not receiving enough power from your connected batteries, recharge battery or use your split charge if available via starting the engine to increase power availability.

E08 – No fuel – place more fuel within your vehicle fuel tank
E10 – Combustion error, see low temperature running.

Actual heater errors

E02 – Over voltage – decrease voltage supply
E03 – Damaged glow plug
E04 – Damage fuel pump
E05 – Overheat sensor tripped, check for blockages
E06 – Fan error, ensure case has not been knocked and nothing is on top of heater
E07 – Data fault, check wiring to controller has not been damaged.
E09 - Onboard sensor warning

Blank screen

Normally indicates a power supply issue, check battery connections, both positive and negative. Check in line fuse on positive wire. Locate and check negative wire, this is normally either connected to your vehicle battery or underneath where the heater exhaust exits the floor of your vehicle. It will be a black single wire which should be connected to your vehicle chassis. (Ground)

Manual re fuelling

After refuelling on receiving an E08 attempt to start your heater 3- 4 times, this should fill the lines with fresh fuel and allow the heater to start.

However, diesel can air lock with the fuel line and will need to be cleared via the following procedure to prevent damage and over fuelling.



Firstly, refuel your vehicle to above quarter tank level.

Disconnect the fuel line from underneath the heater. This is important to ensure that you DO NOT over fuel the heater.

On the controller press the down button and PWR button together

Screen will change to H- OFF press up arrow to change to H – ON the pump led will light and pump will pulse fuel. Monitor fuel filter and fuel lines, sometimes it is better to disconnect the fuel pipe from the heater, thus it will not over fuel, and this will also assist in expelling any trapped air within the pipework.

Ensure that all the trapped air is expelled from the fuel filter by manipulating it whilst pump is pumping.

Monitor disconnected fuel pipe and stop manual pump mode when clear fuel is being expelled from the pipe.

The pump will time out after approx. 2 minutes, to switch on again press the down arrow and then press the up arrow to switch it back on again.

To stop manual fuel pump either press down arrow or press settings button.

Reconnect fuel line and restart heater.

Standby mode

When your new heater is in standby mode (off and displaying the clock), it will dim the display. To awaken, press any key.

We recommend that if you are not going to use your heater for long periods that you remove the fuse located on or near your battery. In standby by the display draws approx 50ma, the same as your dash clock. However, it is better to have no parasitic draw on your leisure battery over prolonged periods with no charge being applied to combat it.

Normal power usage

On start up and shut down your new heater will draw approx 9 - 10 amps for approx 3 minutes, thereafter dropping to 1- 2 amps during normal use.

Settings password

To access the secure setting area, you will need to enter the password. It is **4682**. Changing any settings can cause damage to your heater. Caution is advised.



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