

The Afterburner

Heater Compatibility



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Introduction

The Afterburner only works with compatible digitally controlled Chinese Diesel air heaters. Not all heaters are digitally controlled.

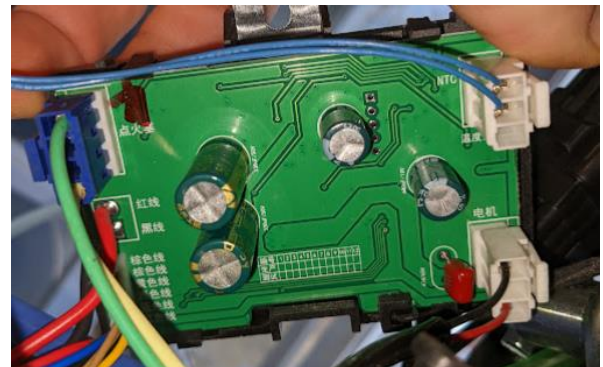
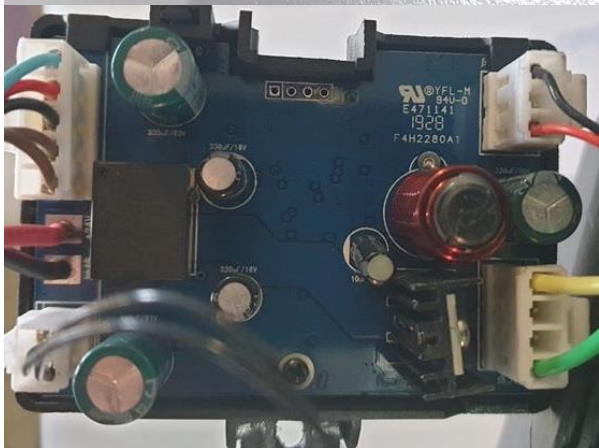
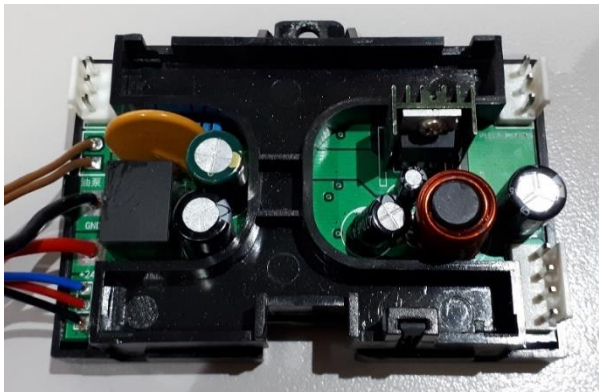
It is not compatible with Webasto or Eberspaecher heaters.
It is not compatible with any water heaters.

Primarily, there must be only 3 wires to the controller.
Typically being red, black and blue.
These ultimately terminate in either a triangular or round waterproof connector.

ECU must be compatible

The crucial component is the ECU mounted within the heater.
This determines the digital data protocol that is used, and this must be compatible with the data protocol the Afterburner uses.
Not all Chinese heaters use the same data protocol, despite plugs being the same.

The following images are of ECUs known to support the correct data protocol.
If yours looks like any of the following, then your heater is compatible and will work with the Afterburner controller.



Controller connectors

The controller connectors will terminate in either a triangular or round waterproof connector.



The triangular connector is found in both compatible and incompatible units.

It is an extremely poor discriminator to use.



The round connector so far has only been found on compatible ECU systems.

This is a likely indicator of a good ECU being present.

- × **Any other connector style likely indicates incompatibility.**

OEM Controllers

Using an image of the controller alone is fraught with peril.

Often you will find their internal electronics may be incompatible with the supported ECUs

You simply cannot look at a controller and be 100% certain it is compatible.

You can however be certain that some controllers are NOT compatible

You can interact with a powered controller to gauge likely compatibility.

These controllers have tended to be compatible



Afterburner compatibility

These controllers should be treated with caution

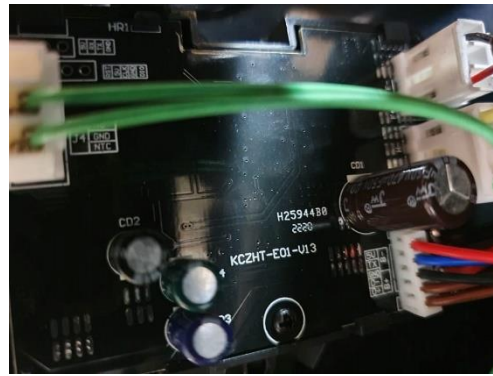
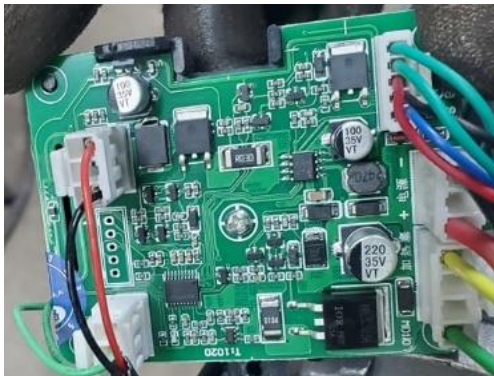
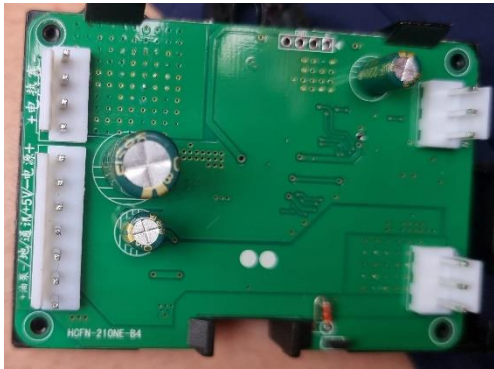


These controllers are NOT compatible



- × Shows a 3 bladed fan on the LCD
- × Aqua blue digits
- × Beeps
- × Talks
- × Has no ---- tuning menu capability
- × More than 3 wires
- × Maxpeedingrods / HCalory Bluetooth heater

These ECUs are NOT compatible



- × Any ECU marked with STM32
- × Any ECU marked with CCFN
- × HCalory / Maxpeedingrods Bluetooth heater.

Operational checks

The following tests will help identify the likelihood of system compatibility:

Probably good	Maybe good	Definitely bad
<ul style="list-style-type: none">• Manipulation of the settings button reveals the ---- PIN entry mode, where you can typically enter 1688 and gain access to the tuning parameters.• Display operates as a clock upon power up, starting at 00:00.• ECU has a large inductor coil present.	<ul style="list-style-type: none">• LCD shows red digits.• Voltage is reported in 0.1V steps.• Controller has a triangular connection plug• Controller has 3 wires• Controller uses a round connection plug.	<ul style="list-style-type: none">• LCD shows aqua blue digits.• Always starts at H3 power level.• Can only choose H1-H5 power levels.• Controller beeps.• Controller speaks.• Has no timer function.• Controller connection is neither round nor triangular.• Controller has more than 3 wires.• Heater supports Bluetooth

The ultimate proof is ALWAYS the ECU located within the heater body!