

Mastering the Diesel Air Heater

LCD Digital Control Unit

There are various types of Controllers supplied with Chinese Diesel Heaters. The majority, however, are the Digital variety like the one shown here. They can be quite confusing for the new owner, especially when very little in the way of instructions are provided.

To help in that regard, I've reproduced some basic instructions below, that should get you up to speed quickly.

WARNING: Emergency Shutdown Procedure



Never disconnect power to the unit while it is running. To turn it off, press and hold the Power Button for a couple of seconds. Once that's done, it's imperative that you let the unit run it's pre-programmed cool-down cycle and turn itself off completely. Failure to do so, could result in ECU (Electronic Control Unit) destruction. If power is suddenly lost to the unit, open the top of the heater and use a fan of some kind, to displace heat. Do this as quickly as possible,

Manual Fuel Pump Operation - Priming the Pump

The facility is provided to run the pump alone (without the heater or fan) This is to allow priming of the pump after draining. Note that the fuel will pass into the combustion chamber and exhaust system, where it may accumulate and cause much smoke when the heater is next used. Avoid excessive use of the manual pump!

From Default Screen, (non setting mode, showing time),
press and hold DOWN/OK simultaneously, until the screen shows H-OF.
Then press UP to start the pump.

When you want to exit Fuel Priming, **press DOWN.**

Press OK to move on to the next setting

TO TOGGLE BETWEEN HZ AND TEMPERATURE MODES

In the non setting mode, **press SET/UP simultaneously** which will change display from Hz to Centigrade.

Pressing SET/UP again will reverse the setting.

REMOTE CONTROL PAIRING

Firstly, make sure a battery is installed in the Remote Control. Most are supplied without a battery fitted.

With the Controller connected, but in the OFF state, press the UP ARROW and OK simultaneously and hold, until the display shows HFA - Now press the ON button on the remote. When the controller acknowledges the Remote, press ON on the Remote and the heater will start.

If you don't need the heater on at that time, press and hold OFF until Controller acknowledges. The fan will run for a minute or so, then shut down.

You can now start the heater using the remote.

Be aware, if you disconnect power to the Heater/ Controller, you will need to pair the Remote again.

SETTING THE DESIRED TEMPERATURE

From Default Screen, press OK and the current temperature in the van will display. Press OK again and the Target Temperature shows... note it's in BOLD face.

To **adjust Target Temperature**, press UP or DOWN buttons to display desired Temperature. Can be adjusted while machine is running.

SETTING THE TIME

In the non setting mode, press SET once to enter the Time Setting Mode which is 24 hour format. Press UP and/or DOWN to set the first desired number and press OK to set that number. Do the next number and press OK. Work through all settings, pressing OK after each desired number is chosen. After the correct time is set, press SET several times to return to the Default Screen.

SETTING THE TIMERS - START / STOP

After the Time Setting is completed, press OK to enter Timing Start or Stop Mode. The default is OFF, press UP to open the timer.

There are 2 sets of Timers here, set the Start time, then the Stop time.

The setting method is the same process as the Time Setting.

ERROR CODES

E-01 Voltage is too High

E-02 Voltage is too Low

E-03 Glow Plug failure

E-04 Pump failure

E-05 Too hot

E-06 Motor failure

E-07 Controller not connected properly

E-08 The Burner flame has extinguished