

Belief



BELIEF

DIESEL AIR HEATER USER MANUAL



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SPECIALISTS

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diesel appliances for caravans,
RVs, boats and off grid.

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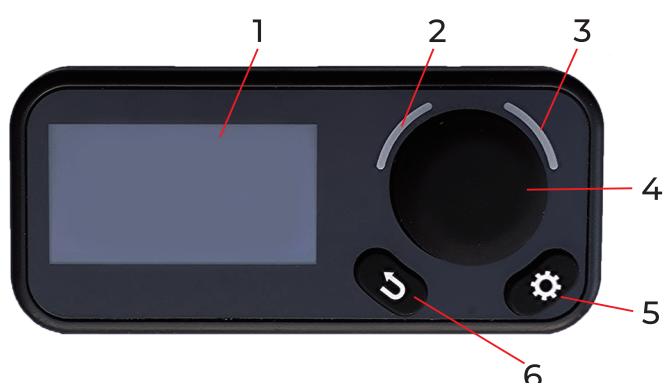
Belief Diesel Air Heater Quick Reference Guide

You can start the heater in either Manual Control or Temperature Control mode. Starting takes 2-3 min per start attempt and the heater will attempt to start twice before an error is shown.

Start and stop the heater by long pressing the knob.

Heater Care: All diesel air heaters need to be run at a high power setting for around 15-20 minutes every 6-8 hours to prevent carbon build up.

DISPLAY PANEL



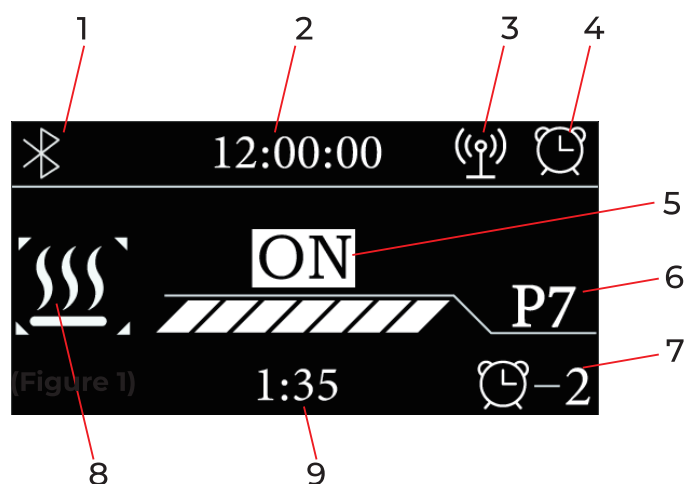
Control panel

- 1 - Display screen
- 2, 3 - LED indicator
- 4 - Knob & Confirm button
- 5 - Set button
- 6 - Back button

1. DISPLAY



After powering-on, the panel enters the initialization state. Once the initialization is complete, the panel enters the control interface (Figure 1).



The screen display content:

- 1 - Bluetooth is connected
- 2 - Current Time
- 3 - In the process of remote control
- 4 - A timer program is set
- 5 - The heater is turned on
- 6 - Warm air level is P7
- 7 - Timer 2 is working
- 8 - Heat mode
- 9 - The remaining heating time is 1 hour and 35 minutes



LED INDICATOR

Status	LED display
Initialize	Blue light
Disconnect	Blue light flashing
Operating	Green light
Shutting Down	Red light
Fault	Green light flashing



*Long press: Press time >2.5 seconds.
Short press: Press time <2.5 seconds.*

1.1 OPERATING MODE



Manual control mode



Thermostat mode

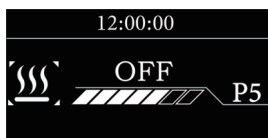


Ventilation mode

1.2 MODE SETTINGS

*Under the interface (Figure 1) short press the confirm button and rotate the knob to change selected mode. Short press to confirm.
Short press the back button to exit.*

Manual control mode



Power range (P1-P7):
*P1 is minimum power
P7 is maximum power
Rotate the knob to adjust*

Thermostat mode




Temperature setting range(5°-35°):
*5° is the minimum room temperature
35° is the maximum room temperature
Rotate the knob to adjust*

Ventilation mode

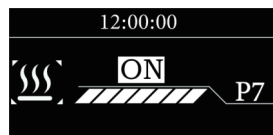


Ventilation level range (P1-P7):
*P1 is the minimum fan speed
P7 is the maximum fan speed
Rotate the knob to adjust*

 *In ventilation mode only the fan operates.
When the heater is working in manual control mode or temperature mode, switching to ventilation mode is not possible.*

1.3 HEATER WORKING STATE

The heater is turned on



*Short press confirm button to enter the mode settings
Long press the confirm button to turn off the heater*

The heater is Shutting Down (OFF Flashing)



*Short press confirm button to enter the mode settings
Long press the confirm button to turn on the heater*

The heater is turned off




*Short press confirm button to enter the mode settings
Long press the confirm button to turn on the heater*

Standby (screen off)



SETTINGS: Press any key to exit standby mode

 *30 seconds after the heater is completely turned off, the panel will automatically enter the standby mode.*

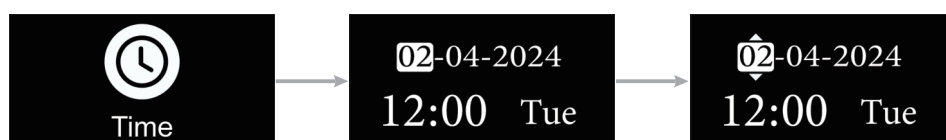
2. SETTINGS

Short press set button to enter settings, rotate the knob to change options.
Short press conform button to confirm options.

 *Setting are not available when heater is working*

2.1 TIME SETTING

Use this setting to set the time and date. This setting will be lost if power is interrupted to the heater. Time is set using 24H clock.





2.2 BLUETOOTH SETTINGS

Bluetooth turns on and off the controller bluetooth function. See separate online instructions on using bluetooth apps to control the heater.



Online Bluetooth instructions

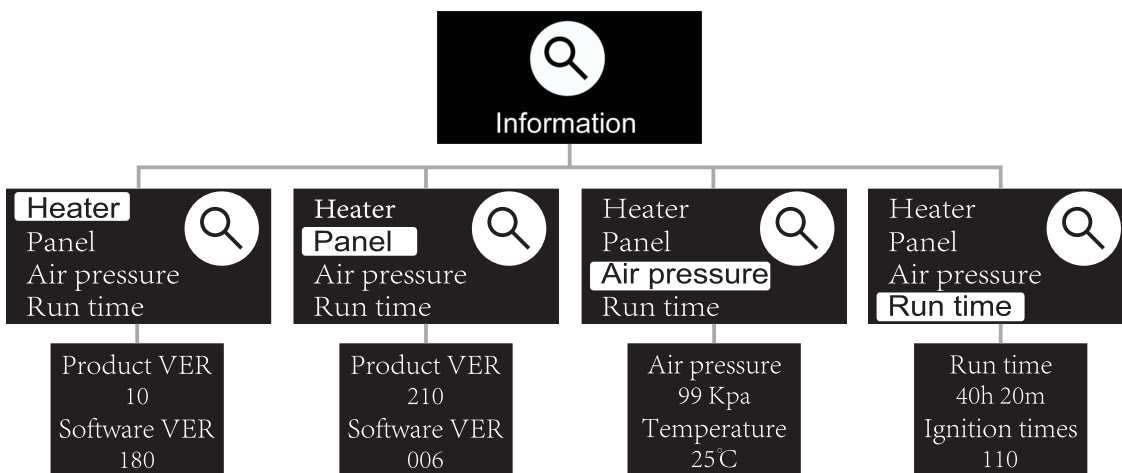
2.3 SOUND SETTINGS

Sound allows the key press beep to be switched on and off.



2.4 INFORMATION

Information allows you to view software and heater run time information.



2.5 TEMPERATURE SCALE

Use this setting to control temperature display units.



2.6 LANGUAGE SETTINGS

Use this setting to control the language.



2.7 TIMER SETTING

Enter the timer setting



Short press the confirmation button on the working interface (Figure 1), find the timer setting option, and then short press the confirm button to enter.

2.7.1 Turn on and off the timer



Short press the confirm button at the position of the timer name.

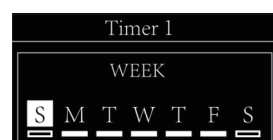
Use the Rotary knob to select different timers

2.7.2 Setting of timer parameters



Short press the confirm button at position ► to enter the parameter setting of the corresponding timer

2.7.3 Setting of timer day



Press the confirm button to turn on or turn off each day

Day on state

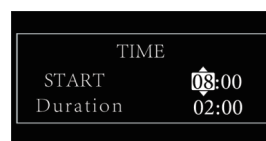
Day off state

Use the Rotary knob to select different days

2.7.4 Timer time setting

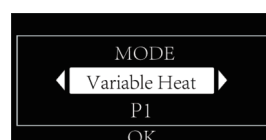


Use the rotary knob to move between time start time and duration, short press to adjust a setting and use the rotary knob to change the setting.



Once the setting is made, short press to confirm it

2.7.5 Timer mode and level setting



Select the operation mode with a short press and adjust with the rotary knob



 In order to ensure safety, the timer is turned off after the power is cut off



2.8 FUEL PRIMING FUNCTION

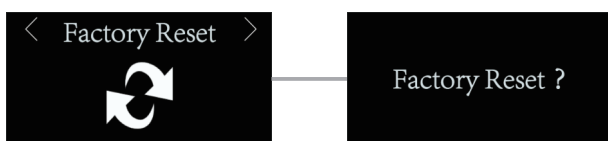


Start. Under the "Run time" interface on the setting menu:

1. Long press the Back and Set buttons
 2. When "Priming" appears, press confirm
 3. Fuel prime lasts 90 seconds
- Exit: Short press the back button

2.9 FACTORY RESET

Factory reset restores all original heater settings.



3.COMMUNICATION AND FAULTS

3.1 INITIALIZE



Status: Panel initialization and communication with heater

- 💡 When initializing, If the panel fails to communicate with the heater. The panel enters the disconnected state.

3.2 NO CONNECTION

If the controller cannot communicate with the heater the 'no connection' message appears.



Short press any key to re-attempt the initialization

- 💡 When the "No Connection" state appears, please check the wiring between the heater and the controller.

3.3 HEATER FAULTS

If the heater detects a fault the fault warning, fault number and fault description will appear.



Display: Fault state
Fault code 31
Fault cause (Undervoltage)

Exit: Long press confirm button to exit the fault state

- 💡 After exiting the fault state, please wait until the heater is completely turned off before restarting the heater.

Troubleshooting Guide

Out of Fuel	<p>If you run out of fuel, the fuel line will fill with air and the heater will need to be re-primed.</p> <p>1- Turn the heater on and wait 6 minutes while it makes two attempts to start. 2- Once the red LED starts to flash slowly, remove the fuse to reset it and then replace the fuse and turn it on again. 3- Repeat steps 1 and 2 up to 6 times to allow the heater to re-prime.</p>
Heater starts, ignites and blows white smoke from the exhaust	<p>This may be due to either residual fuel in the exhaust system from failed starts in the past or some obstruction in the air inlet or exhaust causing incomplete combustion, or it may mean that the heater needs servicing.</p> <ul style="list-style-type: none"> • Check whether the air inlet or exhaust are partially obstructed. Mud, dust and wasp nests are common causes of obstruction. • Run the heater for 20 to 25 minutes and see if the smoke clears. If the exhaust has unburnt fuel in it from failed start attempts, there will be a lot of smoke as it burns off. • If the smoke continues after 25 minutes and the inlet and exhaust are not obstructed, the heater probably needs to be serviced.
Heater starts, tries to ignite but cannot ignite and blows smoke from the exhaust	<p>Smoke normally indicates the appliance is getting fuel but is not igniting.</p> <ul style="list-style-type: none"> • Check whether the air inlet or exhaust are partially obstructed. Mud, dust and wasp nests are common causes of obstruction. • Check batteries and power to the heater. Measure the voltage at the heater using a multimeter. It should be at least 12.5V or voltage drop between the batteries and the heater should be less than around 0.3V as it starts (with the glow plug on). If it exceeds this, check power wiring. • Check the heater is wired directly to the batteries with no kill switches, fuse boxes or skinny wiring to cause voltage drop. • Plug into power. If this helps, check batteries and wiring. • If none of the above works, the heater probably needs to be serviced.
Heater tries to start but will not ignite. No smoke, fuel pump ticking.	<p>This would indicate a fuel supply issue.</p> <ul style="list-style-type: none"> • Follow the Out of Fuel procedure (see above). • Use a torch on the fuel line to see if fuel can be seen or is advancing up the fuel line. • If fuel is not advancing up the fuel lines check the fuel lines and fuel tank. Look for blockages, improperly closed quick disconnect fittings, damaged fuel line, split or damaged fuel filter, loose connections.
Heater flashes an error code when turning on	<p>If the red LED makes a series of flashes immediately after the heater is turned on, count the flashes and check the error codes below. The LED will flash a number of times then pause, then repeat the sequence again.</p>

TWO YEAR PRODUCT WARRANTY

Dieselheat offers a 2 year warranty on this product. Upon receipt of proof of purchase of a product, Dieselheat will, where possible, provide product support via telephone or email. If Dieselheat determines that the issue necessitates the return of the product for inspection and/or repair, it is your responsibility to uninstall the product and return the product at your cost to Dieselheat. Upon repair of the product, Dieselheat will return the product to you at its cost. It is your responsibility to reinstall the product.

See our full warranty terms on our website.



Dieselheater fault finding online guide