

OPERATING INSTRUCTIONS

CONTROL BOARD FUNCTIONS:

1. THERMOSTAT SWITCH: Used to set the unit's controls to one of three mode settings; manual, high/low, or auto/off.

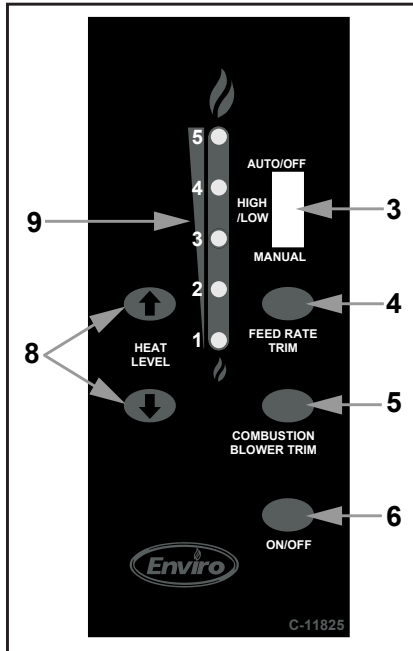


Figure 3: Circuit Board Control Panel Decal.

2. FEED RATE TRIM BUTTON: Used to change the feed rate trims in ¼ second increments for all feed settings. When this button is pressed, all the light will light up on the Heat Output Indicator except for the one that shows the current setting; the default setting is the number 4 light. To adjust the setting hold the Feed Rate Trim button down and press the Heat Level up or down buttons to adjust the setting.

3. COMBUSTION BLOWER TRIM BUTTON: Used to change the Combustion Blower trims in 5 volt increments for all feed settings until it reaches line voltage. When this button is pressed, all the light will light up on the Heat Output Indicator except for the one that shows the current setting; the default setting is the number 2 light. To adjust the setting hold the Combustion Blower Trim button down and press the Heat Level up or down buttons to adjust the setting.

4. ON/OFF BUTTON: Used to turn the unit ON and OFF.

5. HEAT LEVEL ADJUSTMENT BUTTONS: When pressed, will change the heat level setting of the unit up or down.

6. HEAT OUTPUT INDICATOR: Shows the present heat output setting.

OPERATING YOUR PELLET STOVE:

PRE-BURN INSTRUCTIONS: The burn pot liner holes must be clear and the liner installed properly against the ignitor tube for proper operation. Check the hopper for enough pellets to start the unit.

DO NOT OPERATE THE UNIT WITH THE DOOR OR ASH PAN OPEN.

Note: The thermostat mode can be changed during normal operation.

MANUAL MODE:

All control of circuit board function is adjusted at the circuit board.

To START: Press the ON / OFF button. The Heat Level Indicator will show the Heat Level that the stove will run at after start-up and can be adjusted but the change will not take affect until the start -up has finished.

If this is the first time the unit has been started or the unit has run out of fuel, the auger will need to be primed. This can be done by restarting the unit five (5) minutes into its start-up or by putting a small hand full of pellets into the burnpot.

To OPERATE: When a fire has been established after approximately 10 - 15 minutes the unit will switch from start up mode to run at the corresponding Heat Level setting. The convection blower (room air blower) will turn on. The speed of this blower is controlled by the setting of the heat level output indicator.

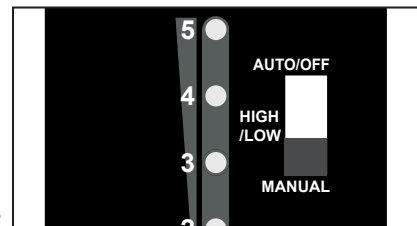


Figure 4: Thermostat Switch in MANUAL position.

OPERATING INSTRUCTIONS

HIGH/LOW MODE: (Requires a thermostat)

INITIAL START-UP: See manual mode above.

OPERATION: When the thermostat calls for heat (contacts are closed) the stove settings are adjustable as per Manual Mode. When the thermostat contacts open, the HEAT LEVEL and Fans will drop down to the LOW setting until the thermostat contacts close again. *The LOW heat setting can be adjusted for different fuel qualities (see "OPERATING INSTRUCTIONS - CONTROL BOARD FUNCTIONS"). The stove will come back to the previous HEAT LEVEL setting when the thermostat contacts close again.

AUTO/OFF MODE: (Requires a thermostat)

INITIAL START-UP: See manual mode above.

OPERATION: When the thermostat contacts close, the unit will light automatically. Once up to temperature, the stove operates the same as in MANUAL. When the thermostat contacts open, the stove's HEAT LEVEL and Fans will drop down to the LOW setting for 30 minutes. If the thermostat contacts close within the 30 minutes, the HEAT LEVEL will return to the previous MANUAL setting. If the thermostat contacts remain open the stove automatically begins its shutdown routine. The ON / OFF button can be pressed at any time the stove will immediately shut down. The stove will re-light when the thermostat contacts close again.

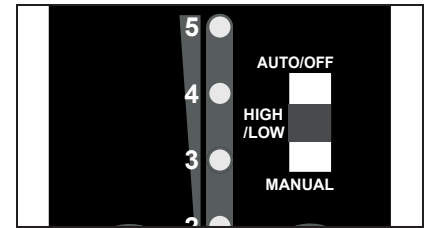


Figure 5: Thermostat Switch in HIGH/LOW position.

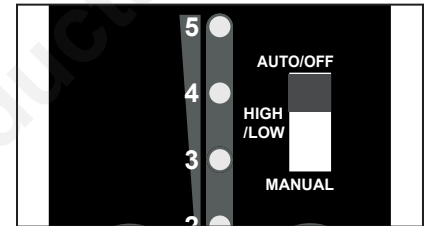


Figure 6: Thermostat Switch in AUTO/OFF position.

TURNING YOUR PELLET STOVE OFF:

- MANUAL and HI / LOW mode: To turn the unit OFF, simply press the ON / OFF button. This will stop the feed of pellets. The blowers will continue to operate and cool the stove down. When cool enough, the stove will turn off.
- AUTO / OFF mode: To turn the unit OFF, turn the thermostat down or off. NOTE: The unit will run on low for three (3) minutes before it turns off.

**DO NOT unplug unit while Combustion fan is operating.
This may lead to smoke escaping from the stove.**

GUIDELINES FOR FINE-TUNING FOR FUEL QUALITY:

Due to fuel quality the slider damper and control board trims may need to be fine-tuned.

1. If the unit builds up on all settings, the slider damper rod should be pulled out in small increments to give the unit more air.
2. If the unit has excesses ash build-up in the liner on the lower feed settings, the Combustion Blower Trim should be increased one setting at a time until the problem improves (Factory Setting is #2).
3. If the fire is going out on low because the airflow is too great, the Combustion Blower Trim can be lowered to the #1 setting.
4. If the stove has excesses ash build-up in the liner on the higher settings the Feed Rate Trim should be trimmed down a setting at a time until the problem improves (Factory setting is #4).
5. If you need more heat and the fuel has long pellets, the majority are over 1" (2.5cm) in length, the Feed Rate Trim can be moved up to the #5 setting. NOTE: Only do this if the fuel burns without building up.

OPERATING INSTRUCTIONS

SLIDER/DAMPER SETTING:

This is used to regulate the airflow through the pellet stove.

THE SLIDER / DAMPER MUST BE SET AT TIME OF INSTALLATION.

A Qualified Service Technician or Installer must set the Slider Damper.

- If the fire should happen to go out and the heat output indicator has been set on the lowest setting, the Slider Damper should be moved to the left slightly, lessen the air flow into the firebox.
- If, after long periods of burning, the fire builds up and overflows the burn pot or there is a build up of clinkers, this would be a sign that the pellet quality is poor, this requires more primary air, the slider damper must be moved to the right to give the fire more air.

The easiest way to make sure that an efficient flame is achieved is to understand the characteristics of the fire.

- A tall, lazy flame with dark orange tips requires more air – Push Right
- A short, brisk flame, like a blowtorch, has too much air – Push Left
- If the flame is in the middle of these two characteristics with a bright yellow/orange, active flame with no black tips then the air is set for proper operation.

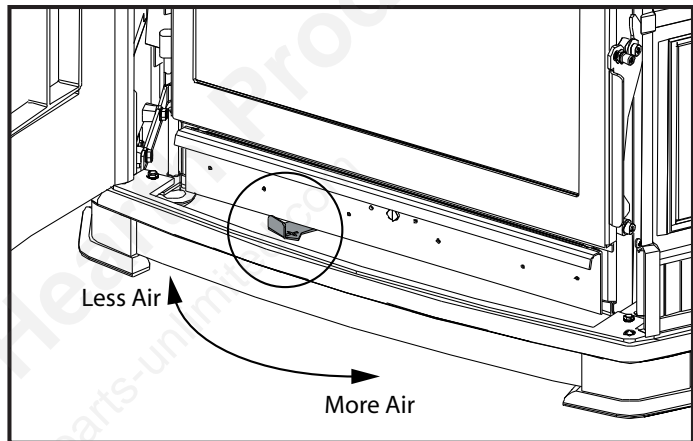


Figure 7: Slider / damper positions.

The combustion exhaust blower is a variable speed blower controlled by the heat output setting. This blower will increase or decrease the blower speed as the heat output setting is turned up or down.

SPECIAL NOTES:

Pellet quality is a major factor in how the pellet stove will operate. If the pellets have a high moisture content or ash content the fire will be less efficient and has a higher possibility of the fire building up and creating clinkers (hard ash build-up). If this happens, move the Slider / Damper to the right slightly to increase the air flow to the fire.



Figure 8: Efficient Flame.