

OPERATING INSTRUCTIONS

Check and Fill the Fuel Hopper with Pellets:

This Pellet Stove is available as a freestanding unit or as a fireplace insert. There is a different method for filling the hopper for each type of heater:

- To check and fill the hopper of the freestanding heater, simply lift the hopper door, visually check the hopper and add pellets when needed.
- To check and fill the hopper of the insert heater, pull hopper lid forward, visually check the hopper and add pellets when needed.

CAUTION: DO NOT OVERFILL THE PELLET FUEL HOPPER. AS A SAFETY PRECAUTION, AUGER WILL NOT OPERATE AT ANY TIME WHEN FUEL HOPPER DOOR IS OPEN.

Pre-start Check-up:

Make sure that all parts of the pellet stove room heater are cool before proceeding. Remove the burn pot and clean out any ash debris. Be sure to re-install the burn pot in the correct position (see page 29).

The blowers and automatic fuel supply are controlled from a panel located on the right hand side of the stove.

Note: Your Pellet Stove may omit an odor as oil residue from the manufacturing process burns off and the high temperature paint cures. You can minimize this effect by running a smaller fire for the first few hours of operation. Avoid placing any items on the stove top during this period as the stove's paint could be permanently damaged.

Lighting Instructions:

ATTENTION: Viewing door must be securely latched to ensure proper stove operation. Push door-handle downward until latch is fully engaged; you will feel the latch engage and hear an audible click.

When first operating your Pellet Stove, depress the MODE button until the LED indicator above MANUAL lights up. This will engage MANUAL mode and provide you with full control of the heater's control board functions and allow you to familiarize yourself with how the heater works. The heat level for T-STAT mode can only be set when the control is in the Manual Mode.

Starting Up The Pellet Stove Room Heater:

Whenever operating the pellet stove for first time, or if the stove runs out of pellets, it is necessary to prime the auger with pellet fuel. To do this, Press and Hold the AUGER Button for Approximately 3 Seconds until the AUGER LED illuminates. This procedure will prime the auger and then automatically initiate the normal ignition cycle.

CAUTION: Do not use this procedure for normal startup. To do so would cause excessive fuel build-up in the burn pot.

For normal startup with pellet fuel in the auger, press and release the On/Off button. The LED indicator light above the On/Off button will alternately flash green then red to indicate that the start-up cycle has begun. The light above the Auger button will flash intermittently to indicate the activation of the auger feeding the pellets into the burn pot. The electric igniter will also be activated at this time. The igniter takes a few minutes to come up to temperature in order to ignite the pellets in the burn pot. It will normally take between 4 minutes and 8 minutes for pellets to ignite.

NOTE: If pellets do not ignite within 12 minutes the heater will shut down, requiring you to turn on the heater and repeat the start-up process.

When the pellets have ignited and flame has been established, the start-up cycle will end; this procedure takes between 8 and 12 minutes. If the control is set to Manual Mode, it will now default to the heat level setting the last shutdown time. If the control is set to T-STAT Mode, the heat output will coincide to the commands from the thermostat.

Auger:

As explained in the starting up step, this button is only served to start up the pellet stove in lieu of the on/off button when there are no pellets in the auger.

Circulation Air Flow:

Your pellet stove room heater features circulation air flow which will change in accordance with the heat setting. Circulation air flow will be at its maximum setting when the heat setting is also at maximum and subsequently will be at its minimum setting when the heat setting is at minimum. If you desire to operate the circulation fan at its maximum setting regardless of heat setting, you may do so by pressing the FAN button.

Auger Trim:

When operating at Heat Level 1, if the flame goes out or the heat output is too high on the minimum heat level setting, use the AUGER TRIM button to make adjustments. See the AUGER TRIM button description on page 11.

Shutting Down Your Pellet Stove Room Heater:

Turn off the heater by pressing the On/Off button. The stove will enter the shutdown cycle and the pellets will stop feeding into the burn pot to allow the fuel in the burn pot to be combusted and consumed. During this period, the exhaust blower and circulation fan will continue to operate until the flames are out and the heater has cooled down. When the heater has cooled down to its pre-set level, it will shut down completely.

CAUTION: NEVER TURN OFF THE HEATER BY UNPLUGGING OR DISCONNECTING ITS ELECTRICAL POWER SOURCE. DOING SO WILL CAUSE THE HEATER TO SKIP THE PROPER SHUTDOWN CYCLE, CAUSING THE HEATER TO OVERHEAT AND THE POSSIBLE RELEASE OF SMOKE INTO THE HOUSE.

OPERATING INSTRUCTIONS - continued

Control Board Functions:



MODE Button: The MODE button allows you to switch operating mode on your pellet stove room heater. Depress the MODE button to switch between Manual and T-STAT modes. As you depress the MODE button, the indicator light above the desired mode will engage. When you engage the Manual mode, you will be able to manually select the heat settings. If you have installed a remote thermostat for your heater and wish to have the heater controlled by that thermostat, depress the MODE button to engage T-STAT mode. The thermostat will control the heat output of the heater alternating between the lowest heat level and the highest heat level that you have pre-selected. The T-STAT mode provides the most even heat output, for better comfort, and to extend the life of the pellet fuel ignition system. Additionally, the constant flame serves as a warning for people and pets to keep away from the heater while it is in operation.

ON/OFF Button: The ON/OFF button is used to turn the heater on and off. Whenever there is power to the heater, the LED indicator light above the ON/OFF button will be solid red. If the heater is cold prior to start-up, press and release the ON/OFF button. The LED light above the ON/OFF button will alternately flash red and green to indicate the startup cycle has started. Fuel pellets will start to feed into the burn pot and the pellet fuel ignition system will be activated. Flames in the burn pot will normally appear between 4 - 8 minutes, and once the flame has been established, the startup cycle will end, this takes between 8-12 minutes. At this point the LED indicator light above the ON/OFF button will glow solid green. The user will now be able to make heat level adjustments.

HEAT LEVEL Button: Depress the HEAT LEVEL button to advance the heat level by one level until you reach the maximum setting; from the maximum level you will decrease one level each time you depress the HEAT LEVEL button. The circulation fan speed will also increase with the heat level setting. Wait until the startup cycle is complete and the ON/OFF LED is solid green to set Heat Level. (The HEAT LEVEL LEDs are also used as codes to indicate a malfunction, please refer to the **Safety Features and warning codes** section for more information.)

FAN Button: Depressing the FAN button will set the circulation fan speed to high, overriding the automatic fan speed control. The onboard logic will modulate the fan speed in accordance with the heat level setting. It is recommended that you allow the control to automatically set and adjust the speed of the fan to obtain optimum efficiency and minimal fan noise.

AUGER Button: Whenever Operating the Pellet Stove for First Time, or if The Stove Runs Out Of Pellets, it is Necessary to Prime the Auger with Pellet Fuel. To do this, Press and Hold the AUGER Button for Approximately 3 Seconds until the AUGER LED illuminates. This Procedure will prime the Auger and then Automatically Initiate the Normal Ignition Cycle. **NOTICE: Do not use this procedure for normal startup. To do so would cause excessive fuel build-up in the burn pot.**

AUGER TRIM Button: This Button is only enabled when operating at Heat Level 1. Depress the AUGER TRIM Button to change the Auger feed rate on the minimum heat level to account for the quality of pellet fuel being used. Increasing the Auger feed rate will help keep the flames from extinguishing on the minimum heat level setting. You can also use the AUGER TRIM button to lower heat output on the minimum heat level setting:

- Depress and release the AUGER TRIM button until the heat level 1 and 5 setting lights appear to slightly increase the feed rate on the minimum heat level.
- Depress and release the AUGER TRIM button until the heat level 1 and 4 setting lights appear to slightly reduce the pellet feed rate on the minimum heat level setting. Use this setting to reduce the heat level output on low.
- Depress and release the AUGER TRIM button until only the heat level 1 setting light is on, this is the factory setting and works for most types of fuel.

Open Door: During normal operation the heater will automatically shut off if the viewing door is opened for more than 30 seconds. This action causes the heater to go into vacuum error mode. To clear this error and restart the heater, close the door, depress the ON/OFF button and then follow directions for restarting heater.

Refilling the Fuel Hopper: For maximum performance do not let the pellet fuel hopper drop below 1/4 full.

Fuel Hopper Lid Safety Switch: When the Fuel Hopper Lid is opened the auger will stop turning to prevent accidental injury.

KEEP PELLET FUEL HOPPER LID CLOSED AT ALL TIMES EXCEPT WHEN REFILLING. DO NOT OVERFILL HOPPER.

Safety Features and warning code:

1. Your heater is equipped with a temperature "high-limit" switch, designed to shutdown the auger in case of an over temperature situation. The high-limit switch is a thermo snap disc type and must be manually reset in the event of an overheat shutdown. Once the heater has cooled down, you can reactivate the high-limit switch by depressing the manual reset button located on the high-limit switch.
2. When the High-Limit switch opens, which indicates an overheat failure, the HEAT LEVEL LED's 3 & 4 will flash red.
3. Your heater is equipped with a vacuum switch that automatically shuts down the auger in the event of a exhaust fan malfunction.
4. When a Vacuum Error is sensed, the HEAT LEVEL LED's 1 & 2 will flash red. Check to ensure the glass door is latched properly.
5. When the Low-Limit switch opens, (fire went out) the HEAT LEVEL LED's 4 & 5 will flash red. First check fuel supply, then check to ensure Auger is not jammed and finally that pellet hopper door is properly closed.
6. When the Pellets in the Burn Pot fail to ignite HEAT LEVEL LED's 1 & 5 will flash red.

NOTE: In the event that the high-limit switch or vacuum switch activates, please contact your dealer to discuss the cause of this activation and to ensure that your heater continues to operate in a safe manner. Either switch tripping can indicate a problem with the operation of your heater.

THERMOSTAT INSTALLATION

Optional thermostats are available for use with your pellet stove. A thermostat can help you maintain a constant room temperature. The thermostat option will require the installation of a millivolt type thermostat.

NOTE: Your thermostat should be installed by an authorized dealer or service person.

Installation of Remote Thermostat:

- Disconnect Pellet Stove Room Heater unit from power supply.
- Open right side panel to gain access to rear of control panel.
- Strip insulation from thermostat wires and connect to the screw terminal on the rear of the control panel (see Figure 4).

If you have installed a remote thermostat for your pellet stove and wish to have the heater controlled by that thermostat, depress the MODE button to engage T-STAT mode. The thermostat will control the heat output of the heater alternating between the lowest heat level and the highest heat level that you have pre-selected.

The T-STAT mode provides the most even heat output, for better comfort, and to extend the life of the pellet fuel ignition system. Additionally, the constant flame serves as a warning for people and pets to keep away from the heater while it is in operation.

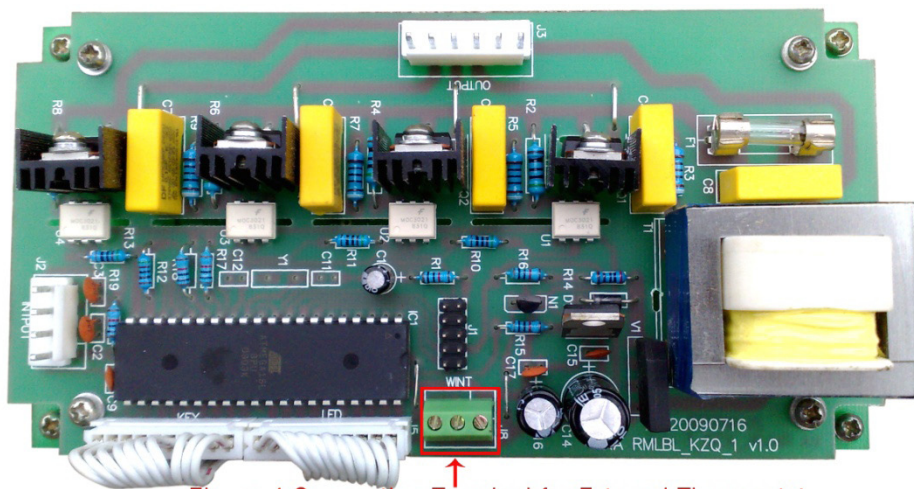


Figure 4

Connection Terminal for External Thermostat

Left: GND
Middle: Thermostat
Right: 5V power source