

Please read this entire manual before operation. Save these instructions.



Wood Pellet & Corn Blend 50/50%

PLEASE READ THIS ENTIRE MANUAL BEFORE INSTALLATION AND USE OF THIS PELLET FUEL-BURNING ROOM HEATER. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE, BODILY INJURY OR EVEN DEATH.

GENERAL INFORMATION

Your EASYFIRE Pellet Stove is designed to operate on industry standard wood pellet fuel. However, in an effort to provide flexibility for the consumer EasyFire has been evaluated for operation with a combination of standard fuel and dried feed corn. The information included in this operating guide is

The AutoLite system is integrated into the stove to allow for automatic start up using a heating element located in the burn pot. This element starts the initial fire required to burn the wood pellets. The system operates on 120VAC power supplied through a separate fuse and runs for five minutes during the initial stove start up. After the five minute period the AutoLite system is deactivated and the stove operates based on the EasyFire digital control system requirements. If the house AC power should quit, the AutoLite system will not be available however, with the optional battery attached the stove can be manually lit and operate on battery power for several days (depending on battery size, refer to the EasyFire installation manual).

The most effective installation of the EasyFire AutoLite

Stove is to connect the unit to a thermostat. This can be accomplished using a standard wall thermostat or a remote control thermostat. A remote control thermostat can be purchased from your local dealer and installed in a few minutes. This will allow the stove to start and shut down when there is a call for heat.

If your house power is out the AutoLite system will not be able to start the stove when the thermostat calls for heat. However if the stove is operating when the power goes out the stove will not shut down operating on the backup battery. Your EasyFire will turn down to low when the thermostat calls for shut down and then turn up to the setting on the control panel when the thermostat calls for heat. A true back up heat source!

GENERAL WARNINGS

The EASYFIRE Pellet Stove and Insert has been designed and approved for burning **wood pellet fuel only**. Corn blended with wood pellets have been evaluated in the stove and found to burn acceptably providing a few rules are followed.

NEVER use gasoline, gasoline-type lantern fuels, kerosene, charcoal lighter fluid, or similar liquids to start or "freshen up" a fire. Keep all such liquids well away from the heater while it is in use.

Ashes must be disposed of in a metal container with a tight fitting lid and placed on a noncombustible floor or ground, well away from all fuels, pending final disposal.

<i>Pellet Corn Blend</i>	<i>Operation Comparison Standard Pellets</i>	<i>Stove Adjustment Changes</i>
70/30	Little difference	Adjust feed trim down 10%
60/40	More burn pot plugging. Daily cleaning reqrd.	Adjust feed trim down 40%
50/50	Burn pot requires cleaning 2 times daily.	Adjust air up 20%, center feed trim adjustment

AUTOLITE OPERATION

WARNING: For general stove and insert installation refer to the installation manual provided with the unit.

The AutoLite System is factory installed with the only installation requirements being the optional thermostat.

INSTALLER: PLEASE LEAVE THIS MANUAL WITH THE OWNER!!

THERMOSTAT OPERATION

The wall thermostat is designed to automatically regulate the room temperature from the control panel heat setting to the "Off" setting based upon room temperature. Remember to leave the control panel on the "Medium or High" position when utilizing the wall thermostat feature. When burning corn mixtures of 40% or more thermostat operation is not recommended. Corn tends to light slower and cause more build up in the burn pot.



Figure 2 Pellets and corn separating in hopper.

START-UP AND OPERATION

Refer to Installation and Operation manual provided with the unit for standard match lighting and 12V operations.

1. AutoLite Start-Up:

Prior to operating your AutoLite stove, make sure the hopper is full of wood pellets and the interior components have been installed properly including; burn screen & pot, heat exchange covers, and ash drawer.

IMPORTANT: The Fire Pot must be seated flush and must sit even in the pot tray. Air leaking around the Fire Pot will create a poor burn (Figure 3). Light the pellets in Fire Pot using any approved pellet lighter.

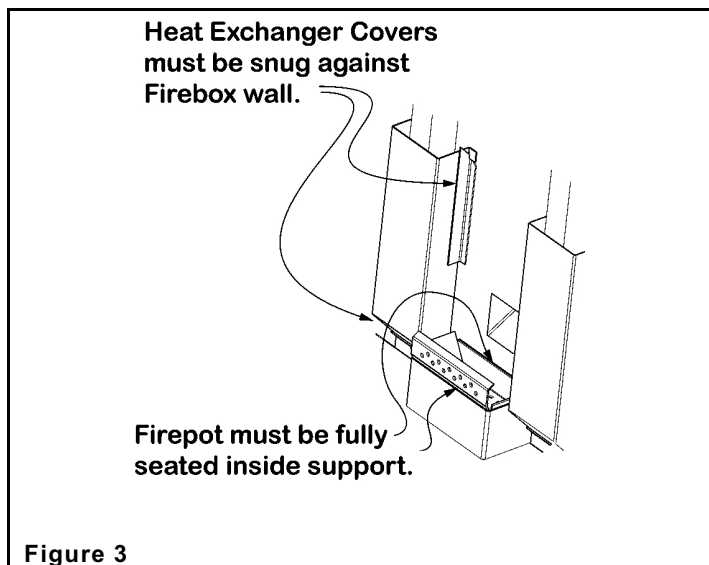


Figure 3

Note: When clean your Easyfire check to make sure the heat exchange covers and burn pot are fully seated.

2. AutoLite Control Functions: Control functions on the Easyfire are as follows: OFF, FAN, LOW, MEDIUM, HIGH, CLEAN. Here is how each function works:

A. When the Control Button is turned to **FAN**, a timer is activated and you will have about ten (10) minutes to get the pellets lit and reach a minimum temperature. This function is used for match lighting when the AC power is out.

Should the pellets not light in 10 minutes simply turn the button to **OFF** and begin again. This will give you another 10 minutes to get the pellets lit. The reason for the timer function is so that the heater will automatically shut down if the fire goes out. Pellets do not feed in the FAN position.

B. In the **LOW** position, the EASYFIRE will be feeding approximately 1 to 1½ lbs. of pellets per hour and the flame will fluctuate between 1" and 6" in height.

C. In the **MEDIUM** position the EASYFIRE will be feeding approximately three (3) pounds of pellets per hour and the flame will fluctuate between 3" and 8" of fire.

D. In the **HIGH** position the EASYFIRE will be feeding approximately 4+ lbs. per hour and the flame will fluctuate between 3" and a full flame. The fan speed will increase accordingly as the heater automatically adjusts itself based on temperature inside the heater (see G below).

E. The **CLEAN** position is to be used only when the heater is not burning and you wish to clean out the accumulated ash in the front of the fire area. See **CLEAN OUT** section of maintenance instructions.

F. After the heater is running for several hours and you wish to turn it off simply press the button to **OFF**. **The heater will continue running until it cools down and then will automatically shut itself down.**

G. REMEMBER: Each feed position will fluctuate because the microprocessor is automatically adjusting the feed and air based on temperature. This means the pellet feed rate and flame height will change accordingly based on quality of pellet and heat loss of dwelling.

3. Starting the Stove: Push a Heat Range button (Low or Medium is best for start up) and turn the thermostat up to "Call for heat". The stove fan will begin to operate along with the ignitor cycle. After about a minute the pellets will begin to fall in the burn pot. After five minutes there will be a fire in the burn pot and the stove will begin to heat up. When the stove reaches start up operating temperature it will then switch to the control panel setting and begin its automatic operation cycle.

Prior to stove operating on thermostat, confirm proper operation by servicing and adjusting the stove as outlined in the "Installation Guide". When servicing stove, operate with thermostat bypassed as stove will reset to start up mode each time thermostat is activated.

Feed Trim Adjustment

Underneath the control button you will find a small round button that will turn forward and reverse. This button can

adjust the feed motor in the LOW operating position. By turning the button clockwise you can increase the feed on LOW and by turning it counterclockwise you can decrease the feed in the LOW position. Factory setting is 1:00 o'clock.

Once the stove is at operating temperature for one hour set the stove on LOW. Adjust the trim button so that average flame is approx. 1-2" above the burn pot. This will set the average feed rate (air/flue) for best operation.

Move this button carefully! It is designed to fine tune your LOW setting in the event you change brands of pellets and/or live at a higher elevation. If this setting is to low the stove may go out during LOW setting operations. If this should happen increase the trim by small amount.

MAINTENANCE PROCEDURE

CAUTION: Moving parts may cause injury, DO NOT operate with rear cover removed.

WARNING: Risk of electrical shock, disconnect all AC/DC power before servicing.

ALWAYS TURN YOUR Heater OFF & LET IT COOL BEFORE CLEANING.

Your EASYFIRE Pellet Heater requires routine maintenance for maximum performance and is mandatory for the warranty to remain in effect.

The following procedures should be studied carefully and performed regularly as indicated:

1. Fly-ash: Some ash will accumulate in the heat exchanger, Fire Pot and flue and should be cleaned out on a regular basis for best efficiency and safety. When the heater is shut down and cold, you should:

- a. Open door and remove Heat Exchanger Cover. To remove, simply slide up and out from retaining angle bracket (**Figure 12**). Clean one side at a time. With one slide cover removed, **leave door open** and turn control button to the "**CLEAN**" position. Let heater run until ash in Fire Pot area is vacuumed out by heater fan. Turn off and replace cover. Remove remaining cover and repeat procedure for the other side. The vent pipe should be cleaned out after this procedure. Remove the clean-out port cover (**Figure 13**) and vacuum as required.
- b. Remove Fire Pot by lifting up and out, it may be brushed out or vacuumed. Fire Pot should be cleaned weekly and depending on pellet quality daily. Make sure holes in pot are not clogged. The area around and below the pot should be checked every five or six days depending on how many hours a day you are burning your heater and the quality of the pellets being burned. (After a few days you will be able to determine the frequency needed for clean out.)

The important thing to remember is that excessive Fly-ash accumulation will affect the efficiency of the burn.

- c. Scrape pellet feed chute with putty knife to remove hardened material on which sawdust can accumulate.
- d. The clean-out port cover should be removed and the vent pipe checked every four to six weeks or whenever you utilize the clean-out mode on the control dial.

- e. Fly-ash can also accumulate in the vent pipe and termination cap. Inspect exhaust system frequently to maintain free flow of exhaust fumes and fly-ash. The frequency of clean-out depends entirely on the quality of the pellets, so you will have to initially monitor the buildup in the pellet vent pipe.

2. Hopper Clean Out: Vacuum the accumulated saw dust in the hopper weekly. Keep free of debris and foreign material. AN ACCUMULATION OF SAW DUST CAN CAUSE IRREGULAR PELLET FEED. For best results this should be done on a regular basis depending upon how often the heater is used. If you burn the heater all the time you should do this every eight to ten days.

3. Cleaning the Exhaust Fan Blade & Heat Exchanger: The exhaust blower should be checked for excessive Fly-ash buildup. Regular and routine maintenance utilizing the **CLEAN OUT** feature will keep the exhaust blower housing and fan blades clean. This cleaning can only be done when the heater is NOT burning. For best results run the fan in the **CLEAN OUT** position **with the door open** for approximately one minute or until ash is no longer being picked up by the fan. Remember, you must always check the clean out cap on the tee after utilizing the CLEAN OUT feature.

HI TEMP/FLUE AND TRIM INDICATORS:

When the Hi-Temp/Flue indicator light comes on (red lite beneath control button) it means that the flue is obstructed or you have a reverse draft and gases cannot exit properly. Maintenance is required and a thorough cleaning and pipe check must be performed.

TRIM button : Underneath the control button you will find a small round button that will turn forward and reverse. This button can control the feed motor in the LOW position only. By turning the button clockwise you can increase the feed on LOW and by turning it counterclockwise you can decrease the feed in the LOW position.

Move this button carefully! It is designed to fine tune your LOW setting in the event you change brands of pellets and/or live at a higher elevation.

REPLACEMENT PARTS:

Replacement parts are available from your local dealer or on-line @www.sierraproductsinc.net



5061 Brooks St. Montclair, CA 91763
Phone 1-909-399-3355 Fax 1-909-399-3357
www.sierraproductsinc.net
P/N 140793r1 EF Pellet Fuel Combinations 02/08