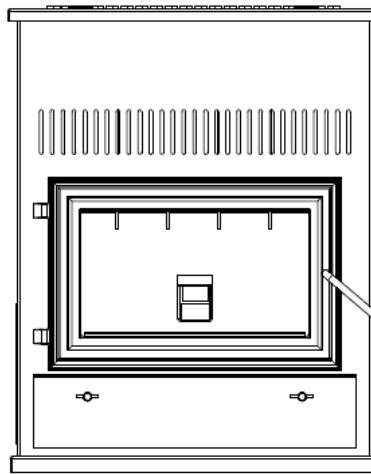


PELLET AUXILIARY HEATER



INSTALLATION & OPERATION MANUAL 25-PAH/55-SHPAH/55-TRPAH



Manufactured By:
England's Stove Works, Inc.
PO Box 206
Monroe, VA 24574

REV. 2/2010

CAUTION

Please read this entire manual before installation and use of this pellet fuel-burning appliance. Keep children, furniture, fixtures and all combustibles away from any heating appliance.

SAFETY NOTICE

Failure to follow these instructions can result in property damage, bodily injury or even death. For your safety and protection, follow the installation instructions outlined in this manual. Contact your local building or fire officials about restrictions and installation inspection requirements (including permits) in your area.

SAVE THESE INSTRUCTIONS

IMPORTANT: IF YOU HAVE A PROBLEM WITH THIS UNIT, DO NOT RETURN IT TO THE DEALER. CONTACT TECHNICAL SUPPORT @ 1-800-245-6489

Mobile Home Use:

This freestanding pellet unit is approved for mobile home or doublewide installation with the outside combustion air hook-up. See the "Installation" section of this manual for details pertaining to mobile home installations. Mobile home installation must be in accordance with the Manufactured Home and Safety Standard (HUD), CFR 3280, Part 24.

WARNING:

- Use of outside combustion air is mandatory with this unit.
- Do not operate with the hopper open; lid must be shut and tightly latched during operation.

Note: England's Stove Works does not recommend using a pellet stove as your only source of heat.

Retain for your files

Model Number _____

Date of Purchase _____

Date of Manufacture _____

Serial Number _____

* This information can be found on the safety tag attached to the underside of the hopper lid. Have this information on hand if you phone the factory or your dealer regarding this product.

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INTRODUCTION

Thank you for purchasing this fine product from England's Stove Works!

England's Stove Works was started, and is still owned by, a family that believes strongly in a "Do It Yourself" spirit; that's one reason you found this product at your favorite "Do It Yourself" store.

We intentionally design and build our stoves so that any homeowner can maintain their unit with basic tools, and we're always more than happy to show you how to do the job as easily and as inexpensively as possible. However, while remaining simple, our stoves are designed to perform extremely efficiently, helping deliver more heat from less fuel.

Please look at our vast Help section on our website and call our Technical Support Department at (800) 245-6489 if you need any help with your unit. We are nearly always able to "walk you through" any installation issues, repairs, problems or other questions that you may have.

Wishing you years of efficient, quality and "comfy" heating,

EVERYONE AT ENGLAND'S STOVE WORKS

Please Note: While information obtained from our web site and through our Technical Support line is always free of charge, there will be a service charge incurred with any "on-site" repairs or maintenance that we may arrange.

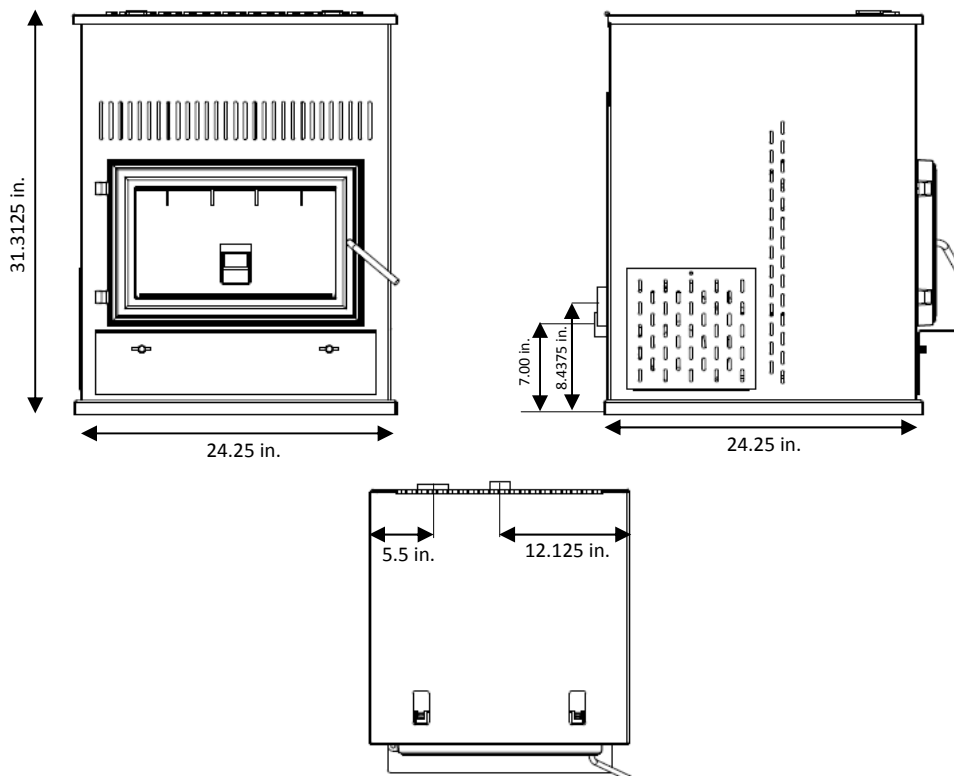
This manual encompasses all versions of the 25-PAH, including the 55-SHPAH, 55-SPAH and 55-TRPAH. However, for simplicity of description, the stove will be referred to by the generic 25-PAH designation.

SPECIFICATIONS

Heating Specifications

- Heat Output Range** 11,000 BTU/hr – 25,000 BTU/hr
- Approximate Pellet Burn Rate** 1.6 lb/hr – 4.0 lb/hr
- Maximum Burn Time** 72 hours
- Approximate Square Footage Heated*** 800 - 2000 sq. ft.
- Hopper Capacity..... 120 pounds

Dimensions



EPA and Safety Compliance Specifications

- EPA Compliance Certified
- Particulate Emissions 1.55 grams/hr
- Efficiency* 78%
- Tested To..... ASTM E 1509, ULC/ORD-C1482-M1990 & ULC S627-00

*- This unit was not tested for efficiency; the efficiency shown is a default value normally attained by similar, certified pellet burning appliances.

** - Heat output, burn rate and maximum burn time are heavily dependent on the type of pellets burned in the stove; as such, these numbers may vary.

*** - The maximum heating capacity of this unit can vary greatly based on climate, construction style, insulation and a myriad of other factors. Use this information in conjunction with a BTU loss calculation for your home to determine if this unit will be sufficient for your needs.

INSTALLATION

Installation Overview

When choosing a location for your new stove, there are a multitude of factors that should be taken into account before beginning the installation.

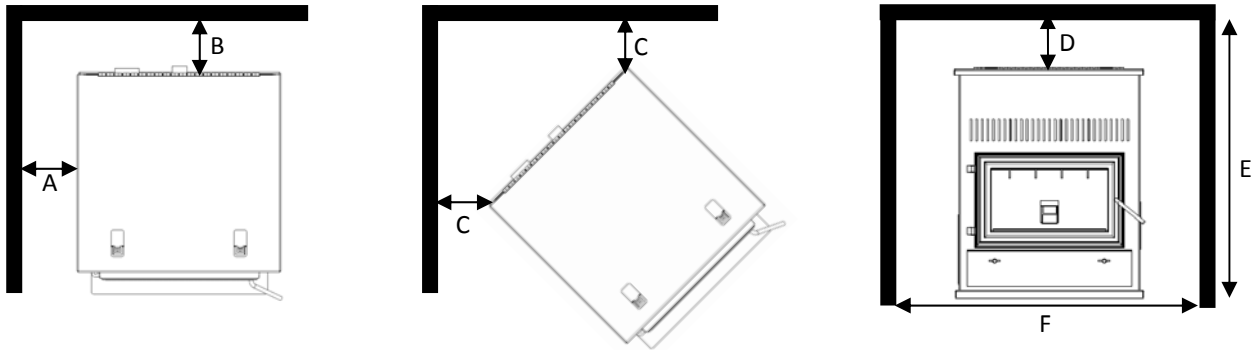
1. Traffic Patterns – To help prevent accidents, the stove should be placed in a location where it is out of the way of normal travel through the home.
2. Heat Flow – When deciding on a location for the stove, consider the way heat moves throughout your home. Install the stove where you need the heat; basement installations often do not allow sufficient heat to flow to the upper floors and a top floor installation will not allow any heat to reach the floors below. Always consider that heat rises and will take the path of least resistance while it is still hot.
3. Exhaust Location – Outside walls are generally the best place to install a stove, since they allow easy exhaust and intake air installation (using our Simpson DuraVent AC-3000 Kit). If there is not a feasible way to install the stove on an outside wall, there are methods for venting the stove up through the roof, but they tend to be more costly because they involve the use of more pellet vent pipe and can often make outside air installation more difficult.
4. Wall Construction – Locating the stove so that the exhaust system can pass between studs will simplify the installation and eliminate the need to reframe any sections of the wall to accommodate the wall thimble.

WARNING

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Do Not Overfire – If any external part starts to glow, you are overfiring. Reduce feed rate. Overfiring will void your warranty.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may result in a house fire.
- Tested and approved for **wood pellets only**. Burning any other fuel will void your warranty.

INSTALLATION

Clearances to Combustibles



Unit to Side Wall	Unit to Rear Wall	Unit to Corner	Unit Top to Ceiling	Min. Ceiling Height	Min. Alcove Width	Max. Alcove Depth
A	B	C	D	E	F	Not shown
12 in.	6 in.	6 in.	28.5 in.	60 in.	48.25 in.	24 in.
304.8 mm.	152.4 mm.	152.4 mm.	723.9 mm.	1524 mm.	1225.6 mm.	609.6 mm.

CAUTION

- Keep children away.
- Supervise children in the same room as this appliance.
- Alert children and adults to the hazards of high temperatures.
- Do NOT operate with protective barriers open or removed.
- Keep clothing, furniture, draperies and other combustibles away.
- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM

INSTALLATION

Venting Introduction

This pellet stove operates on a negative draft system, which pulls combustion air through the burn pot and pushes the exhaust air through the vent pipe and out of the building. This unit must be installed in accordance with the following detailed descriptions of venting techniques; not installing the stove in accordance with the details listed here can result in poor stove performance, property damage, bodily injury or death. England's Stove Works is not responsible for any damage incurred due to a poor or unsafe installation.

If questions arise pertaining to the safe installation of the stove, our Technical Support line (800-245-6489) is available. Contact your local code official to be certain your installation meets local and national fire codes and if you're uncertain about how to safely install the stove, we strongly recommend contacting a local NFI certified installer to perform the installation.

Venting Guidelines

- **ALWAYS** install vent pipe in strict adherence with the instructions and clearances included with your venting system.
- **DO NOT** connect this pellet stove to a chimney flue which also serves another appliance.
- **DO NOT** install a flue pipe damper or any other restrictive device in the exhaust venting system of this unit.
- **USE** an approved wall thimble when passing through a wall and a ceiling support/fire stop when passing through a ceiling.
- **ONLY** use 3.0" or 4.0" Type L or Type PL pipe approved for pellet stove venting; **DO NOT** use galvanized or B-Vent pipe.
- **SEAL** each joint of pellet vent with high temperature silicone (Part # AC-RTV3) to prevent smoke spillage into the home.
- **AVOID** excessive horizontal runs and elbows, as both will reduce the draft of the venting system and will result in poor stove performance.
- **INCLUDE** as much vertical pipe as possible to prevent smoke from the unit from entering your home in the event of a power outage.
- **INSPECT** your venting system often, to be certain it is clear of fly-ash and other restrictions.
- **CLEAN** the venting system as detailed in the maintenance section of this manual.

WARNING

- INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER.
- HOT! Do not touch! Severe burns or clothing ignition may result.
- Glass and other surfaces are hot during operation.

WARNING: Venting system surfaces get HOT, and can cause burns if touched.
Noncombustible shielding or guards may be required.

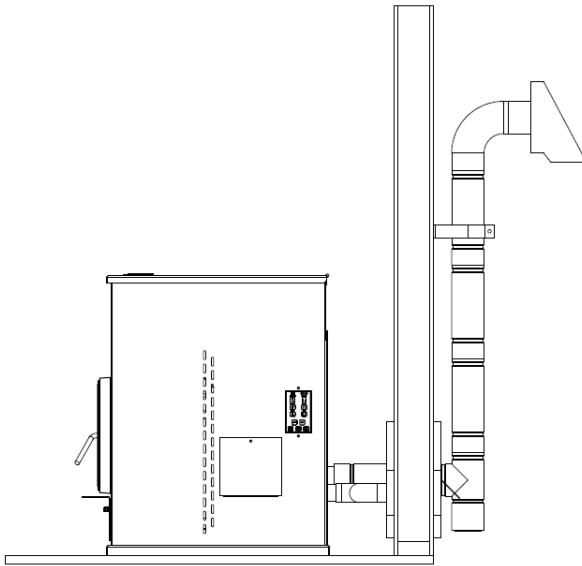
INSTALLATION

Additional Venting Information

- Do not mix and match components from different pipe manufacturers when assembling your venting system (i.e. Do **NOT** use venting pipe from one manufacturer and a thimble from another).
- We **require** a minimum vertical rise of 36 in. (3 ft.) of pipe to create natural draft in the system, which helps evacuate smoke from the stove in the event of a power failure or combustion blower failure.
- Venting systems 15.0 ft. or shorter may be composed entirely of 3.0 in. pellet pipe; to reduce frictional losses, venting systems longer than 15.0 ft. should be composed of 4.0 in. pellet pipe.
- Do not terminate the venting system directly beneath any combustible structure such as a porch or deck.
- Follow NFPA 211 rules listed below for venting system termination location relative to windows and other openings in the dwelling.
 - NFPA 211 (2003 ed.) Section 10.4 Termination: 10.4.5
(1) The exit terminal of a mechanical draft system other than direct vent appliances (sealed combustion system appliances) shall be located in accordance with the following:
 - (a) Not less than 3 ft. (.91 m) above any forced air inlet located within 10 ft. (3.0m).
 - (b) Not less than 4 ft. (1.2 m) below, 4 ft. (1.2 m) horizontally from or 1 ft. (305 mm) above any door, window or gravity air inlet into any building.
 - (c) Not less than 2 ft. (0.61 m) from an adjacent building and not less than 7 ft. (2.1 m) above grade when located adjacent to public walkways.
- Distance between the termination opening and grade should be a minimum of 24 in. contingent on the grade surface below the termination. When determining the termination height above grade, consider snow drift lines and combustibles such as grass or leaf accumulation. In areas where significant snowfall is possible, the termination height must be sufficiently high to keep the termination free of snow accumulation.
- Do not use makeshift compromises during installation or install any component of the unit or venting system which could result in a hazardous installation.
- A chimney connector shall not pass through an attic or roof space, closet or similar concealed space, or a floor, or ceiling.
- Where passage through a wall, or partition of combustible material is desired, the installation shall conform to CAN/CSA-B365.

INSTALLATION

Approved Venting Method 1: Through the Wall



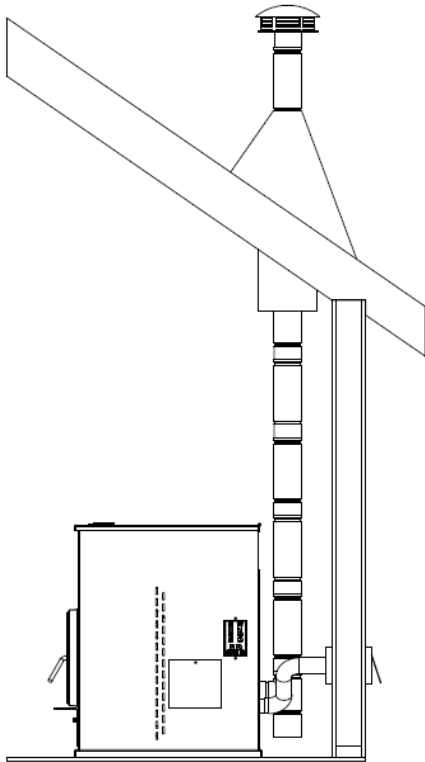
- Generally the simplest installation method, venting through the wall using our AC-3000 kit (or similar venting system) is also the preferred venting method. It minimizes horizontal pipe, allows the stove to be installed close to the wall and keeps the clean-out tee on the outside of the house, for ease of cleaning.
- When installing any venting system, **Type L** or **Type PL** pipe must be used and all clearances to combustibles (listed by the pipe manufacturer) must be strictly adhered to.
- Use the pipe manufacturer's approved thimble for passing through a combustible wall, and maintain at least the minimum clearances to combustibles.
- Use an appliance collar where the pellet vent connects to the exhaust output of the pellet stove and attach the appliance collar to the exhaust blower output using three sheet metal screws.
- Secure the pellet vent to the outside of the house using a wall strap just below the 90 degree elbow.
- Seal each pipe connection joint with high temperature RTV Silicone, to ensure the system is leak free (Check with the specific venting system manufacturer's instructions before doing so).
- If the pellet vent pipe being used is not a "Twist Lock" system, three (3) sheet metal screws are required at each pipe joint.
- Connect the pellet stove to outside combustion air using the kit included with your stove or using an alternative method, as described in the "Outside Air" section, on page 14.
- This installation type can be modified for basement (**Basement installations should always be performed by a professional installer**) or other installations wherein the tee and vertical section of the pipe would be inside the home and the venting system would simply pass horizontally through the thimble and then terminate.

Please Note:

Installation diagrams are for reference purposes only and are not drawn to scale, nor meant to be used as plans for each individual installation. Please follow all venting system requirements, maintain the required clearances to combustibles, and follow all local codes.

INSTALLATION

Approved Venting Method 2: Through the Ceiling



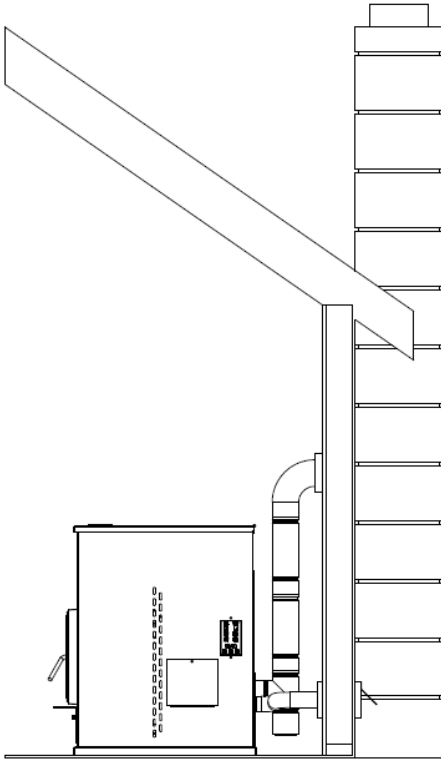
- Venting through the ceiling/roof may be the only feasible venting option in some cases and is a factory recommended installation.
- When installing any venting system, **Type L** or **Type PL** pipe must be used and all clearances to combustibles listed by the pipe manufacturer must be strictly adhered to.
- Use the pipe manufacturer's approved ceiling support for passing through a combustible ceiling, as well as the required firestops, radiation shields, flashing and storm collar.
- Be certain to follow the manufacturer's required height of termination above the roof line, and maintain at least the minimum clearances to combustibles.
- Use an appliance collar where the pellet vent connects to the exhaust output of the pellet stove and attach the appliance collar to the exhaust blower output using three sheet metal screws.
- Seal each pipe connection joint with high temperature RTV Silicone, to ensure the system is leak free (Check with the specific pipe manufacturer's instructions before doing so).
- If the pellet vent pipe being used is not a "Twist Lock" system, three (3) sheet metal screws are required at each pipe joint.
- Connect the pellet stove to outside combustion air using the kit included with your stove or using an alternative method, as described in the "Outside Air" section, on page 14.
- This venting method can also be modified so that the venting system runs horizontally through the wall from the stove, then transitions to vertical and terminates above the roofline. When using this modified version of this installation be certain to carefully follow the venting system manufacturer's instructions diligently.

Please Note:

Installation diagrams are for reference purposes only and are not drawn to scale, nor meant to be used as plans for each individual installation. Please follow all venting system requirements, maintain the required clearances to combustibles, and follow all local codes.

INSTALLATION

Approved Venting Method 3: Existing Chimney System



- Using an existing masonry or factory built chimney for venting is the only other acceptable method for venting this pellet unit.
- Use **Type L** or **Type PL** venting pipe until entering the existing chimney. Use the appropriately sized adapter when transitioning from the pellet vent pipe to the masonry or factory built thimble and be certain that the adapter is sealed tightly to both the pellet venting system and the existing chimney.
- Before using an existing chimney, be certain it is in good condition (A chimney sweep inspection is highly recommended). Also, make sure the chimney meets the minimum standards listed in NFPA 211 (A chimney professional can confirm this upon inspection).
- If connecting this stove to a factory built chimney, it may **ONLY** be a 6" flue, UL103 HT venting system. Connection to any other factory built chimney may result in a poorly operating or dangerous stove

installation.

- When connecting to an existing masonry chimney, the cross-sectional area of the flue must be considered. A chimney with a flue larger than 6" round (28.27 sq. in.) may require relining with an approved pellet stove chimney lining system.
- Use an appliance collar where the pellet vent connects to the exhaust output of the pellet stove and attach the appliance collar to the exhaust blower output using three sheet metal screws.
- Seal each pipe connection joint with high temperature RTV Silicone, to ensure the system is leak free (Check with the specific pipe manufacturer's instructions before doing so).
- If the pellet vent pipe being used is not a "Twist Lock" system, three (3) sheet metal screws are required at each pipe joint.
- Connect the pellet stove to outside combustion air using the kit included with your stove or using an alternative method, as described in the "Outside Air" section, on page 14.

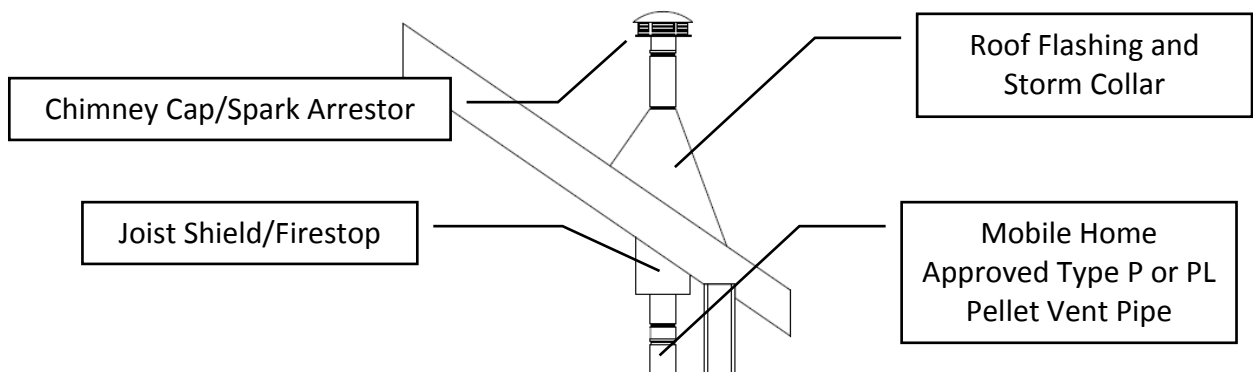
Please Note:

Installation diagrams are for reference purposes only and are not drawn to scale, nor meant to be used as plans for each individual installation. Please follow all venting system requirements, maintain the required clearances to combustibles, and follow all local codes.

INSTALLATION

Mobile Home Installation

- The England's Stove Works, Inc. outside air kit **MUST** be used for installation of this unit in a mobile home. Please see the "Outside Air" section on page 14 for more information regarding outside air connections.
- The outside air inlet must be kept clear of leaves, ice and other debris. Keeping the outside air inlet free of restriction is crucial to preventing air starvation and smoke spillage.
- The pellet stove **MUST** be secured to the floor of the mobile home using lag bolts and the holes provided in the bottom of the base for this purpose. Outdoor-aired space heaters must be attached to the structure.
- The pellet stove **MUST** be grounded with #8 solid copper grounding wire (or equivalent), terminated at each end with an NEC approved grounded device.
- Carefully follow all clearances listed in the appropriate section of this manual AND follow the venting manufacturer's minimum clearance requirements. Similarly, be certain the venting system used is approved for mobile home use.
- Installation must be in accordance with Manufacturers Home & Safety Standard (HUD) CFR 3280, Part 24 as well as any applicable local codes.
- Use silicone to create an effective vapor barrier at the location where the chimney or outside air ducting passes through to the exterior of the structure.



CAUTION

THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME FLOOR, WALL AND CEILING/ROOF MUST BE MAINTAINED.

DO NOT CUT THROUGH FLOOR JOISTS, WALL STUDS, CEILING TRUSSES OR ANY OTHER SUPPORTING MATERIAL WHICH COULD BE DETRIMENTAL TO THE STRUCTURAL INTEGRITY OF THE HOME.

WARNING: DO NOT INSTALL IN A SLEEPING ROOM.

OUTSIDE AIR HOOK-UP

- The use of outside combustion air is **mandatory** on this pellet stove.
- The outside air connection pipe protrudes from the lower rear center of the stove; use the included outside air kit to attach your stove to outside combustion air. Instructions and all the parts needed to make the outside air connection to your pellet stove are included with the outside air kit.
- If it is not feasible to use the included outside air hookup kit in your stove installation, other materials may be used, provided the following rules are followed:
 - The pipe used for outside air hookup must be metal, with a minimum thickness of .0209in. (25 gauge mild steel) or greater and an inside diameter of approximately 2.0in.
 - All pipe joints and connections should be sealed with pipe clamps or other mechanical means, to insure a leak free outside air connection.
 - Long runs of pipe and excessive elbows for outside air should be avoided. Due to frictional resistance in pipe, any excessive outside air piping can result in poor stove performance.
 - A screen or other protection device must be fitted over the outside air termination point to prevent rain, debris and nuisance animals from entering the piping system.
 - Increase the outside air pipe size to 3.0 in. diameter pipe if the outside air connection is more than 6ft. in length, more than two (2) elbows are used or if the stove is installed in a basement.
- The outside air connection system should be inspected at least annually to be certain it is free from blockage.

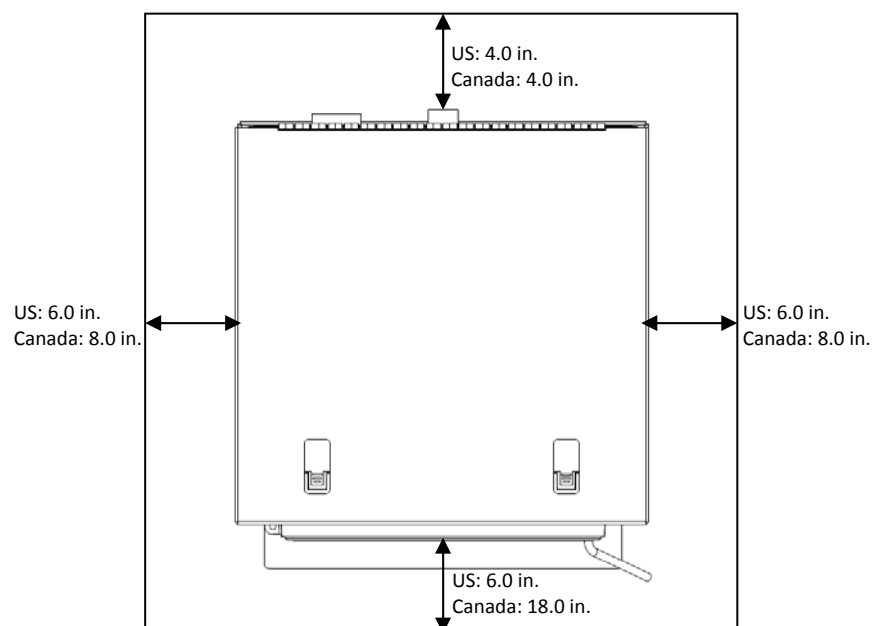
Caution

NEVER draw outside combustion air from:

- Wall, floor or ceiling cavity.
- Enclosed space such as an attic, garage or crawl space.

FLOOR PROTECTION

- This pellet stove requires a non-combustible floor protector if the stove is to be installed on a combustible floor. If the floor the stove is to be installed on is already non-combustible (i.e. a concrete floor in a basement) and has an R value equal to or higher than .2, no floor protection is needed (although a decorative floor protector can still be used for aesthetic reasons).
- Prefabricated floor protectors which are UL listed or equivalent can be purchased or a floor protector can be built from standard materials; two sheets of .5" thick cement board covered with ceramic tile would be a suitable floor protector which meets the .2 R-value requirement.
- When using any floor protector, consider that this stove is not only heavy but will induce heating and cooling cycles on the floor protector which can damage tile and loosen mortar and grout joints. A hearth rug is **NOT** an approved substitute for a proper hearth pad.
- **For the US:** The floor protector must extend at least 6 in. (152.4 mm) from the front & sides and 4 in. (101.6 mm) from the rear.
- **For Canada:** The floor protector must extend at least 18.0 in. (457.2 mm) from the front of the unit, 8.0 in. (203.2 mm) from the sides of the unit and 4.0 in. (101.6 mm) from the rear.



- In Canada, it is required that the non-combustible floor protector is underneath and extends 2 in. (50.8 mm.) on either side of any horizontal venting runs **AND/OR** is directly underneath any vertical venting pipe.

DAILY OPERATION

Getting Started

- Check to see that the hopper is clean and free from foreign materials. Be sure to connect this unit to a working outlet; we recommend using a surge protector to help protect the electronic components from damage.
- **BEFORE** your first fire, dry run your unit (no pellet fuel in the hopper) for twenty minutes; pressing the “ON” button with the unit plugged in will initiate the dry run.
 - Once the “ON” button is pressed, you should immediately hear the exhaust blower start and operate continuously.
 - After about three to five minutes, look for the red glow of the igniter in the igniter port of the burn pot to be certain it is operating normally.
 - Hold the hopper lid switch (See “Illustrated Parts Diagram” pg. 38) down with your finger and check to see that the auger is turning. Release the hopper lid switch and be certain that the auger stops turning. **DO NOT PUT YOUR FINGERS IN THE HOPPER OR NEAR THE ROTATING AUGER.**
- After about twenty minutes, the control board should display “E-2” in the two display windows (More information on Error Codes can be found in the Error Code section of this manual).
- At this point, the dry run is complete and your pellet heating appliance is ready for normal operation.

Lighting a Fire

- In order for this stove to operate, the hopper must first be filled with pellet fuel. Lift the hopper lid using the flush-mount handle and pour the pellet fuel directly into the hopper.
 - ❖ We recommend using only pellets manufactured by PFI Certified facilities, since pellets bearing the PFI stamp of approval will be low in ash and moisture, high in BTU’s, and uniform in size and quality.
- This pellet stove will perform equally well using softwood and hardwood pellets, and although the ash may differ slightly in appearance or texture, both types of pellets will burn cleanly and efficiently in this stove.
- This pellet stove is equipped with an automatic pellet ignition system; the only user input required to light the stove is a simple press of the “On” button.

- Shortly after pressing the “On” button, the letters “S U” will appear in the heat range and blower speed windows of the control board. This indicates the stove has entered the start-up sequence and is operating normally.
- The fuel feed rate and combustion air during start-up is determined by the control board, so the stove may be started on any heat range.
- After approximately fifteen minutes, the fire should be burning brightly and the “S U” should disappear from the control board. At this point, the stove has begun normal operation and the display windows on the control board will remain empty, unless the Heat Range or Blower Speed is adjusted.

Daily Operation Notes

- Only high quality, ¼” (.25 in.) diameter wood pellets, should be used in this stove. Using low grade wood pellets with high ash content OR wood pellets with a high moisture content can cause the burnpot to fill with ash at a more rapid pace and can cause intervals between periodic maintenance to become significantly shorter. Please read the “Maintenance” section of this manual thoroughly to understand how fuel selection affects stove operation, maintenance and cleaning.
- Variation in the flame height is normal; not all wood pellet fuel is uniform in size, which can affect the way pellets are fed into the burnpot. Although the flame height may increase and decrease during operation, there is no loss of efficiency.
- Always store wood pellet fuel in a dry location; storing wood pellet fuel in a dry location ensures the fuel will remain pelletized and low in moisture content. Also, be certain that all wood pellet fuel is stored at a safe distance from the pellet heater; storing fuel in close proximity to the stove can result in a fire.
- This pellet burning room heater is equipped with a specially designed burnpot which comes preinstalled from the factory. This burnpot elevates the burning pellets and delivers air at the precise required locations. Pellets must only be burned in the factory burnpot; no modifications should be made to this burnpot and no additional grates or other fire elevators should be added.

CAUTION

NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR “FRESHEN UP” A FIRE IN THIS HEATER. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER WHILE IN USE. ADDITIONALLY, NEVER APPLY FIRE-STARTER TO ANY HOT SURFACE OR EMBERS IN THE STOVE.

DO NOT USE CHEMICALS OR FLUIDS TO START THE FIRE.

DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA OR ENGINE OIL.

CONTROL BOARD SETTINGS

The control board on this stove allows the user to adjust the heat output and convection blower speed, turn the unit on and off, and test components for function (more on diagnostic mode later).

- The lower buttons on the control board (Low Fuel Feed, Low Burn Air, and Air on Temp) are not meant to be adjusted during normal operation of the unit. These buttons are factory preset and can not be adjusted by the user.
- To energize the unit and initiate a fire, press the “On” button. The LED above the button should turn green and the control board should display “S U” shortly after pressing the button.
- To shut the unit down, press the “Off” button. The LED above the button should turn red and the board should display “S d” shortly after pressing the button. This initiates the shut down sequence, and the stove will remain in shut down mode until it has cooled down.
- To increase the heat output of the stove, press the “Up” heat range button. The number in the heat range display window will increase, signifying that the control board is now adjusting the heat output to your desired level. The blower speed will increase the same amount as the heat range, because the stove is designed to operate with the blower speed greater than or equal to the heat range. Pressing the “Down” arrow will decrease the heat range and blower speed.
- To increase the blower speed without increasing the heat range, press the Blower Speed “Up” arrow until the desired blower speed is shown in the display window. Pressing the “Down” arrow will decrease the blower speed; however, the control board will not allow the blower speed to be set lower than the heat range.

Caution

This unit is meant to operate only with the ash pan and main viewing door closed. Smoke spillage and an inefficient, lazy burn will result from attempting to operate the stove with either door open. In addition, using fuel other than wood pellets can create an unsafe situation and can also generate excess carbon monoxide. Carbon monoxide is an odorless, colorless gas which can be deadly. Please burn only wood pellets.

ERROR CODES

Error codes, or “E-Codes,” are alphanumeric codes that will appear in the Heat Range and Blower Speed windows of the Control Board if the unit experiences an abnormal condition. Error codes are the control board’s way of telling the user that something isn’t operating correctly within the stove, and that the unit should be carefully inspected before reigniting. See the “Trouble-Shooting Guide,” page 30, for additional information on error codes.

E-0

- When this is displayed in the control board windows (typically when restarting after an “E-Code” shutdown), it means there are currently no errors and the stove will begin normal operation.

E-1

- This error code is not used on this stove. If it is displayed in the control board windows, please contact Technical Support and they will diagnose the cause of the false code.

E-2

- When this code is displayed in the control board window it indicates a failure to light. Although the stove may have ignited the pellets, the control board did not register a high enough temperature to determine the fire was lit. If a fire was ignited, wait for the unit to cool, clean the burnpot and restart the unit.

E-3

- This error code indicates the preset maximum allowable exhaust temperature was exceeded. Commonly referred to as “Over-Firing,” the E-3 code means something in the stove is causing the exhaust gas to be hotter than expected.

E-4

- This code is displayed based on a drop in the exhaust temperature. This code means the fire or “proof of flame” has been lost. It usually results from the hopper being empty.

If an error code continues to display, if the error code seems unexplainable, or if you have any other questions about error codes and what they mean, please contact Technical Support at (800)245-6489.

POWER FAILURE

If the power to the unit is interrupted for approximately three minutes or less, the unit will resume operation when power is restored according to the following table:

Unit's State Before Power Loss	State When Power Returns
ON	Start-Up
Start-Up	Start-Up
Shut-Down	Shut-Down
OFF	OFF

- If the power is interrupted for more than (approximately) three minutes, the unit will be "OFF" when power returns.
- **IMPORTANT** – Do **NOT** open the hopper lid or the door to the unit during power outage. Open the closest outside door and a window to reduce the chance of any combustion byproducts entering the home from the stove.
- Wait for the power to be restored and then press the "ON" button to restart the unit, if necessary.

Smoke Detectors

England's Stove Works, Inc. highly recommends the use of smoke detectors in every room of the house. However, locating a smoke detector directly above this unit can result in nuisance alarms.

Caution – Shock Hazard

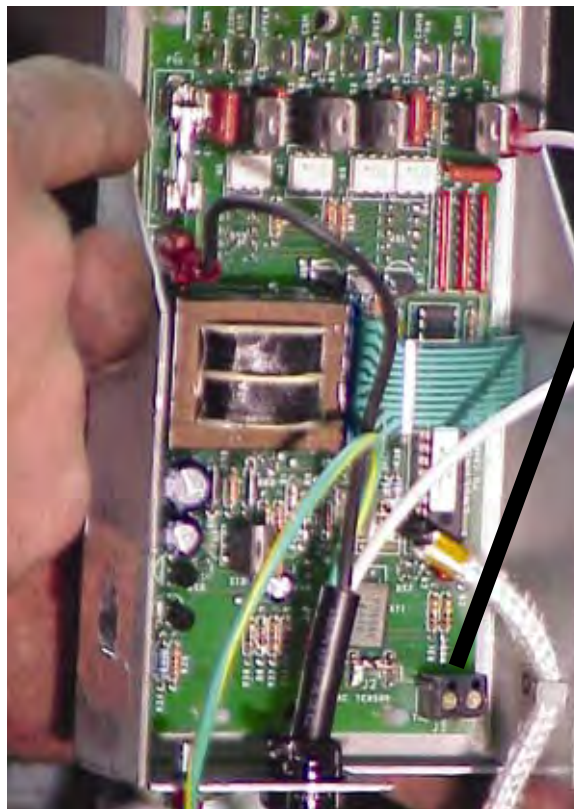
Press the "Off" button and let the appliance completely cool BEFORE unplugging the appliance and beginning any maintenance or component replacement.

Risk of shock if appliance is not unplugged before service.

THERMOSTAT OPERATION

Thermostat Installation

1. Unplug the unit and remove the back panel of the stove.
2. Locate the thermostat connect block, labeled J18, on the rear of the control board, near the bottom (See image below and pg. 37 of this manual for a control board diagram). It will have a small wire “jumper” installed in it from the factory. This jumper bypasses the thermostat and should be saved.
3. Loosen the two screws using a small slotted “jewelers” screwdriver and remove the “jumper.”
4. Insert the two thermostat wires in place of the “jumper” and retighten the screws.
5. Reinstall the back panel and mount the thermostat; the control board automatically reads the thermostat and your stove is now ready for thermostat operation.



Connect
thermostat
wires here
(J18)

THERMOSTAT OPERATION: This stove is equipped with a unique, new feature that allows two options for thermostatic operation: The stove comes from the factory pre-programmed in “On/Off mode,” which turns the stove on and off when the call for heat comes or leaves, like a furnace. The second, or “High/Low mode,” burns at whichever heat range you set the stove at until the call for heat leaves, at which point the stove goes to the Low heat range setting. To set the stove in the “High/Low mode,” unplug the unit and plug it back in, then press and hold both down arrows until H L appears in the heat range and blower speed windows. The unit is now in “High/Low mode.”

THERMOSTAT OPERATION

Thermostat Operation Details

- The 25-PAH|55-SHPAH|55-TRPAH was designed to operate equally well in both manual and thermostat mode. While using the control board for heating control gives the user control over the heat output of the stove, the thermostat allows the stove to “start-up” and “shutdown” independently which will help maintain your house at a more constant temperature and save pellet fuel.
- This pellet stove can be connected to either a wall thermostat (Part # PU-DTSTAT) or wireless remote thermostat (Part # AC-3001). Although either thermostat will operate the stove properly, we highly recommend the wireless thermostat for the convenience of starting your pellet stove from anywhere in the house.
- During thermostatic operation, the stove will burn at whatever heat range and blower speed the control board has been set to.
- When the call for heat is gone (i.e. the room is up to temperature), the stove will enter the thermostatic shutdown sequence.
- If, during the shutdown period, the call for heat returns, the stove will complete the shutdown cycle before relighting.
- Remember to locate the thermostat near the stove in a central location; putting the thermostat in a distant room can cause the stove to overheat the room it’s located in because the thermostat will only sense the temperature of the room in which it is located.

OPTIONAL ACCESSORIES

Wall Thermostat (PU-DTSTAT)

- Installing this wall thermostat allows the 25-PAH|55-SHPAH|55-TRPAH to operate on the same principle as a furnace: The stove will shut-down and relight as the call for heat comes and goes. This will maintain the house at a more constant temperature, while conserving pellets.

Remote Thermostat (AC-3001)

- The remote thermostat for the 25-PAH takes the convenience of thermostat operation one step further by allowing temperature adjustments from anywhere in the home. The remote thermostat allows precise temperature control from wherever you desire and only requires six (6) AA batteries to operate.

DAILY MAINTENANCE

Disposal of Ashes – Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have been thoroughly cooled.

Important Notes

- As with any maintenance concerning this unit, be sure the unit is “OFF” and has completed the Shut-Down cycle **BEFORE** beginning.
- Be aware that metal parts in the firebox can remain **HOT** long after the fire has gone out and **EVEN** after the Shut-Down cycle is complete. Always use extreme caution when handling potentially hot stove parts, even if you think they should be cold.
- Ashes should only be removed when the stove has been shut-down and has been allowed to cool thoroughly. Hot embers can remain under ashes long after the fire has gone out, so always be extra careful when handling any ashes from this (or any) stove.
- Different pellets will generate varying amounts of ash and burnpot deposits. Carefully monitor the ash build up in the stove when first operating the unit, as well as whenever a different brand of pellets is burned.
- While the amount of ash generated by this unit is not excessive compared to a traditional log-burning woodstove, keeping the unit clean and free of ash is **ESSENTIAL** for peak performance and maximum efficiency. Ash build-up hampers airflow, reduces efficiency, and can cause a smoke back.
- England’s Stove Works® is not responsible for any damages incurred due to a poorly maintained and/or dirty stove. This pellet stove is a highly efficient machine and, as such, requires sufficient maintenance to keep it operating at its peak.

Ash Removal and Disposal

- Press the “Off” button and allow the stove to complete the shut-down cycle and cool completely.
- Because of the open design of the firebox, the majority of the ash will already be in the ash pan. Open the main door of the stove and use an old paint brush or putty knife to move ash from around the burnpot into the ash pan below.

- Use a long handled screwdriver or putty knife to remove any deposits left in the burnpot, being careful to remove them from the burnpot and not allow them to filter down into the cradle area. Excessive ash build-up in the cradle can cause poor stove performance (See “Cleaning the Burnpot,” below).
- Turn the ash pan latch counterclockwise until it releases and slide the ash pan out of the stove.
- Dump the ashes into a metal container (as described above) and store them on a non-combustible surface to allow any embers to cool before disposal.
- Slide the ash pan back into the stove; rotate the latch clockwise, making certain it catches the lip above the ash pan opening. The stove is now ready to resume normal operation.
- Be certain the ash pan is **ALWAYS** installed properly in the stove; an air-tight seal around the ash pan is crucial for proper operation of the stove.

Cleaning the Burnpot

Along with removing ashes from the stove, cleaning the burnpot is the other essential part of daily maintenance that will keep the stove operating at its peak. Pellets contain varying amounts of impurities and fusible material that will accumulate in the burnpot over time. Some pellets will contain much higher amounts of these fusible impurities, therefore extra vigilance may be required to maintain a clean burnpot. Allowing impurities to build up in the burnpot can restrict the air-flow to the fire, resulting in a dirty, inefficient burn.

- Always allow the stove to finish the shut-down cycle and cool completely before performing any maintenance inside the firebox.
- Open the main door of the stove and remove the burnpot by lifting it straight up and out of the cradle. **WARNING** – The burnpot can remain HOT long after the fire has gone out, so wear protective gloves whenever handling a potentially hot burnpot.
- Once the burnpot is out of the stove, use a long handled screwdriver or putty knife, as previously mentioned, to remove any deposits from the inside of the burnpot.
- Be certain all air orifices are clear and unrestricted by fusible ash matter; a fine tipped screwdriver or scratch awl can be useful in removing stubborn matter from these orifices.
- Remove any ash material from the bottom of the cradle and brush any ash from the top of the cradle into the ash pan below. Keeping the top of cradle free of ash is crucial in allowing the burnpot to make a positive air-tight seal with the top of the cradle.
- Insert the burnpot back into the cradle using the reverse of the procedure detailed above.

MONTHLY MAINTENANCE

Important Notes

- As with any maintenance concerning this unit, be sure the unit is “OFF,” has completed the Shut-Down cycle, and is completely cool **BEFORE** beginning.
- Be aware that metal parts in the firebox can remain **HOT** long after the fire has gone out and **EVEN** after the Shut-Down cycle is complete. Always use extreme caution when handling potentially hot stove parts, even if you think they should be cold.
- Monthly maintenance should include the steps listed in this section **AS WELL AS** the steps listed in the “Daily Maintenance” section.
- Intervals between monthly cleanings will depend on the duration that the stove is burning on a daily basis. A stove which is operated continuously will need more frequent monthly cleanings than a stove which is used periodically as supplemental heat.
- A good rule of thumb for monthly maintenance is that it should be done each time an entire ton of pellets is burned **OR** once per month, whichever comes first.
- If excess ash accumulation is found in the exhaust chamber or venting system during monthly maintenance, the interval between cleanings should be reduced to eliminate the possibility of poor stove performance due to ash accumulation.

Exhaust Chamber Cleaning

The exhaust chamber of the stove was intentionally designed as an ash accumulation area. Allowing ash to accumulate here prevents excess ash build-up in the combustion blower and the venting system. Similarly, the exhaust chamber is easily accessible via the two exhaust chamber clean-out ports located in the firebox.

- Using a 5/16” socket wrench, remove the two screws which hold each of the clean-out covers in place. The cleanout covers are located on the back wall of the firebox, near the bottom.
- Remove the cleanout covers from the firebox and BEFORE vacuuming the chamber out, observe the type and quantity of ash build-up. The ash deposited in the exhaust chamber should be light, fluffy, grey or white in color, and should be no higher than half way up the clean-out port.
 - Do **NOT** allow the ash to accumulate higher than about half way up the cleanout port; significant ash accumulation in this area can “choke” the combustion blower and cause poor stove performance.

- Using a utility type vacuum cleaner, , vacuum the fly ash out of the exhaust chamber. A short piece of hose can be attached to the end of the utility vacuum line and can be useful in reaching the ash which accumulates between the clean-out ports.
- A specially designed ash vacuum and pellet stove cleaning kit is available from the England's Stove Works website; please see: <http://www.englishstoves.com/store/>.
- Once all ash has been removed from the exhaust chamber, reinstall the cleanout port covers, using the screws previously removed.
- Be certain to tighten the screws down to sufficiently seal the cleanout port covers, but do not over-tighten them, as it possible to damage the screw.

Venting Pipe Cleaning

- Low spots and direction changes in the venting system (such as tee's and elbows) are areas for potential fly-ash and creosote accumulation. **INSPECT** these areas diligently to keep the venting system in safe operating condition.
- Depending on the specific type of venting system your stove is connected to, it may be possible to remove the clean-out tee cover and simply run a pipe brush up the pipe to remove any fly-ash accumulation. Brushes specifically made for cleaning pellet pipe are available at the retailer where you bought this stove, as well as at most hearth product dealers.
- Horizontal runs of pipe, such as from the exhaust connection on the stove to the vertical transition, will accumulate fly ash and should be inspected carefully and brushed clean.
- Check the termination cap to be certain is not clogged or restricted by any fly-ash accumulation.
- After thoroughly cleaning the venting system, reseal any disassembled seams with high temperature silicone (Part # AC-RTV3) if applicable to your venting system.
- Inspect seams that were not disassembled to be certain a smoke-tight seal is still being made.
- After prolonged use, leaks in the venting system can usually be found by searching for fly-ash deposits on the outside of the pipe. Carefully check for leaks in the venting system and seal them accordingly.
- Although most pellet venting systems are designed to last a lifetime, pellet fly-ash can be corrosive under certain conditions. When cleaning your venting system, examine the pipe carefully for any signs of deterioration and replace sections that show excessive wear. It is unlikely that this will ever be a concern, but maintaining your venting system in safe operating condition is crucial to safe stove operation.

YEARLY MAINTENANCE

Important Notes

- As with any maintenance concerning this unit, be sure the unit is “OFF,” has completed the Shut-Down cycle, and is completely cool **BEFORE** beginning.
- Be aware that metal parts in the firebox can remain **HOT** long after the fire has gone out and **EVEN** after the Shut-Down cycle is complete. Always use extreme caution when handling potentially hot stove parts, even if you think they should be cold.
- Yearly (or end of season) maintenance should include the steps listed in this section **AS WELL AS** the steps listed in the “Daily Maintenance,” “Biweekly Maintenance,” and “Monthly Maintenance” sections of this manual.
- Yearly maintenance should be performed at the end of the burning season. Leaving ash and other build-up in the stove during the non-heating months can lead to premature metal degradation in the stove and venting system. Using extra attention to detail and being certain to be very thorough in the end of season cleaning will help increase the operating life of the stove and venting system.

Soot and Fly Ash: Formation and Need for Removal

The products of combustion will contain small particles of fly ash. The fly ash will collect in the exhaust venting system and restrict the flow of the flue gases. Incomplete combustion, such as that which occurs during startup, shutdown or incorrect operation of the room heater will lead to some soot formation which will collect in the exhaust venting system. The exhaust venting system should be inspected at least once every year to determine if cleaning is necessary.

Caution – Shock Hazard

Press the “Off” button and let the appliance completely cool **BEFORE** unplugging the appliance and beginning any maintenance or component replacement.

Risk of shock if appliance is not unplugged before service.

YEARLY MAINTENANCE

Exhaust Blower Cleaning

Although the exhaust blower and blower housing were designed to minimize ash build-up, some fly-ash will still accumulate there throughout the burning season. The amount and type of ash will depend on the type of pellets and venting system, but generally this accumulation will be mild. If, when cleaning the exhaust blower, a large accumulation of fly-ash is found, cleaning the exhaust blower and housing should be performed monthly or bimonthly to prevent this excess buildup.

Instructions

- Before beginning the exhaust blower cleaning procedure, be certain the unit is unplugged and thoroughly cooled down.
- Loosen and remove the 5/16" screw which secures the exhaust blower access door to the unit.
- Once the door is open, the exhaust blower will be clearly visible.
- Disconnect the venting system from the exhaust blower just enough that you will be able to remove the exhaust blower from the stove.
- Unplug the two wires which connect the stove wiring harness to the exhaust blower using the quick connect plugs.
- Loosen and remove the 5/16" screw, on the top of the exhaust blower output connection, which holds the thermal sensor to the exhaust blower.
- Loosen the five (5) 5/16" self-drilling screws which hold the exhaust blower to the exhaust blower tube; a 12" socket extension will likely be necessary to reach all of the screws.
- Lift the exhaust blower up and out of the stove. The gasket which seals the exhaust blower to the exhaust blower tube is fragile, so take extra care when removing the blower. Even when being careful, though, it is easy to tear this fragile gasket, and since an airtight seal is crucial here, it is best to replace this gasket (Part # - PU-CBG) every time the exhaust blower is removed.
- With the exhaust blower removed, use a utility vacuum to remove any ash accumulation in the exhaust blower tube.
- Use a soft paint brush and carefully remove any ash accumulation from the inside of the exhaust blower, and from the exhaust blower fan blade.
- Inspect the exhaust blower motor for dust accumulation and carefully remove it, ensuring that all air cooling holes into the motor are open and free of dust deposits.
- Install the blower in the reverse order as described above. Remember to check the condition of the exhaust blower gasket AND remember to reconnect the thermal sensor to the top of the exhaust blower outlet before reinstalling the side panel.

YEARLY MAINTENANCE

Convection Blower Cleaning

As always, be certain the stove is cool and **unplugged** before servicing any components within the unit. Since the convection blower does not handle any by-products of combustion, it does not require serious cleaning like the exhaust blower. However, dust from the home and other debris in the air can accumulate on the blades of the convection blower. The convection blower is located on the side of the stove opposite the combustion blower, and an access panel on the stove is located for easy convection blower cleaning. Any dust that has built up on the fan blades can usually be easily removed with a vacuum or a soft paint brush.

Cleaning Pellet Fines from the Hopper and Auger

Depending on the type and quality of pellets burned in the stove, some accumulation of pellet fines and dust is possible in the hopper. The lowest part of the auger, near the back of the stove, is where most fines will accumulate. With the stove off, **unplugged**, completely cool and with the hopper empty, use a utility vacuum to remove the fines from the auger tube. If the fines cannot be removed from the top of the hopper:

- Remove the back panel by first removing the three screws which secure the exhaust outlet cover plate. Next, loosen the four stove back retaining screws and lift the back up and off of the unit.
- Locate the auger motor assembly at the middle rear of the stove, and once it is found, find the two set screws on either side of the cast iron mounting collar.
- Using a 3/16" allen wrench, loosen the set screw on either side of the auger mounting collar.
- With a utility vacuum in hand, let the auger assembly slide out of the auger tube just enough so that the vacuum can be used to remove any fines from this area.
- Reinstall the auger assembly and tighten the two set screws; reinstall the back panel and the exhaust outlet cover plate, being certain to tighten the seven (7) retaining screws on the rear of the stove.

Checking Gaskets

An airtight seal at the door openings and hopper lid opening is crucial to proper stove performance. Any air leaks at these areas can not only cause a dirty, inefficient burn but can also pose a serious safety threat. Because of this, gaskets should always be maintained in good condition. Gasket tightness can be checked using the "dollar-bill" method:

- Place a dollar bill between the gasket and the stove body (at the location where the gasket meets the stove).
- Tighten the latching mechanism down and attempt to pull the dollar bill out. If the dollar bill slides in and out easily, the gasket needs to be replaced. This test should be repeated around the entire gasket perimeter, as gaskets will sometimes seal tightly on one side, but will be worn and seal poorly on another side.

Trouble-Shooting Guide

WARNING: To avoid **ELECTRICAL SHOCK** always *disconnect* the unit from the power source **BEFORE** attempting any repair. If this guide does not correct the problem, call your local dealer or Technical Support at 1-800-245-6489.

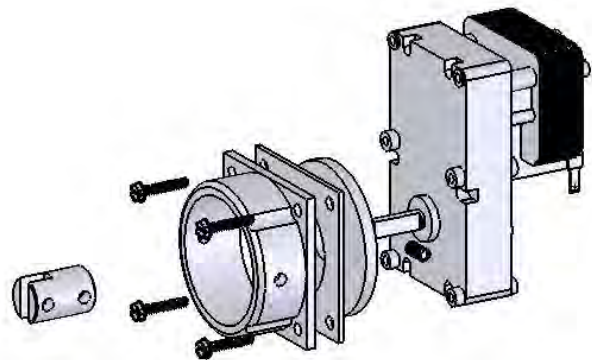
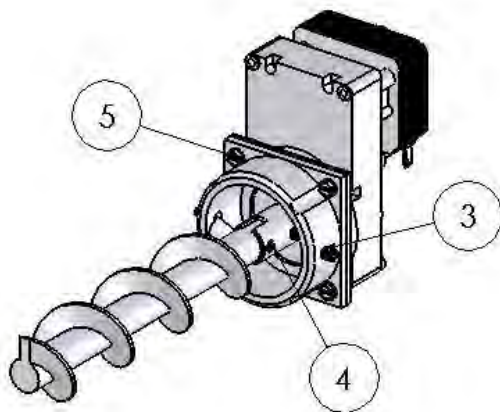
<u>Problem</u>	<u>Cause</u>	<u>Solution</u>
Auger not turning	1. Bad auger motor. 2. Foreign matter jamming auger. 3. Vacuum sensor.	1. Replace auger motor. 2. Remove pellets and object. 3. Check exhaust blower.
Smoke smell or dust in house	1. Improper exhaust connection.	1. Check exhaust connections for leaks, especially the exhaust blower connect. Seal leaks with silicone, aluminum tape or a hose clamp.
Room blower not operating	1. Loose thermal sensor. 2. Blower speed set higher than heat range, causing stove to cool and blower to cycle. 3. Loose connection.	1. Tighten connection on sensor. 2. Lower blower speed. 3. Check control board connection.
Exhaust blower not operating	1. Loose connection. 2. Bad blower. 3. Bad vacuum sensor.	1. Check control board connection. 2. Replace blower. 3. Replace vacuum sensor.
Lazy Fire	1. Bad exhaust blower. 2. Excessive pellet moisture. 3. Excessive ash build-up. 4. Low quality pellets.	1. Inspect and replace blower. 2. Keep pellets dry. 3. Thoroughly clean unit. 4. Use only PFI premium pellets.
Blown Fuse	1. Power surge. 2. Exposed wire. 3. Electrical component shorting.	1. Replace fuse; use surge protector. 2. Check for exposed or frayed wire and loose connections. 3. Check motors and blowers for obstructions or short circuits.
High Pellet Consumption	1. Low quality or non-uniformly sized pellets.	1. Use premium pellets or try another pellet brand.
Squeaking Noise	1. Obstruction in auger tube. 2. Blower Noise.	1. Check auger tube for foreign objects. 2. Remove, clean, and oil blower.
Pinging or Rattling Noise	1. Foreign material in blower. 2. Loose exhaust fan set screw.	1. Check both blowers for material. 2. Check set screw for tightness.
"E-1" Code On Control Board	1. Vacuum bypass chip missing.	1. Contact Technical Support.

Unit Shuts Down in 15-20 minutes with an "E-2" code on control board.	1. Loose thermal sensor. 2. Control board settings. 3. Failure to light pellets.	1. Check both sides of thermal sensor connection (exhaust blower and control board). 2. Start stove on minimum Heat Range 5 to ensure a good fire is started. 3. Check igniter for buildup or failure.
"E-3" Code on Control Board (Overfire)	1. Convection (Room Air) blower failure. 2. Partially blocked flue. 3. Using fuel other than premium wood pellets.	1. Check convection blower for proper function, replace if necessary. 2. Check flue for obstructions. 3. Use ONLY premium wood pellets in this stove.
"E-4" Code on Control Board (Proof of flame lost)	1. The hopper is empty. 2. The hopper lid was left open too long during refueling. 3. Component failure. 4. Blower speed is set too high, cooling firebox too rapidly.	1. Refill the hopper with pellets and restart the stove. 2. Keep the hopper lid open for the shortest interval possible when refueling. The safety switch stops the auger when the hopper lid is open. 3. An auger motor failure or combustion motor failure can sometimes results in an "E-4" code. 4. Operate the stove with the blower speed and heat range at the same value.
Notes: 1. Whenever instructed to check/replace the vacuum sensor, also check for loose or cracked vacuum hose. Also, be certain the vacuum measurement port in the firebox is kept clean. 2. To restart and clear an error code displayed on the control board, push the "ON" button and the unit should reset the error and restart. 3. If you are uncertain about the meaning of an error code or have any questions at all, PLEASE contact Technical Support at (800)245-6489.		

REPLACING COMPONENTS

Auger Motor

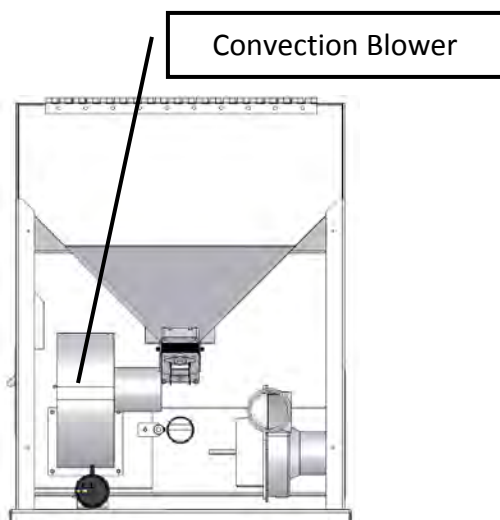
1. Before beginning any component replacement, be certain the unit is unplugged and thoroughly cooled down. Also, make sure the hopper is empty before attempting to remove or replace the auger motor assembly.
2. Remove the back panel of the unit; before loosening any bolts, detach the wiring harness from the auger motor.
3. Locate the auger motor assembly at the rear of the stove, and begin by loosening the two allen set screws on either side of the cast iron auger motor coupler.
4. Slide the auger assembly out of the tube.
5. Next, remove the four screws which hold the cast iron auger motor coupler to the auger motor, using a 5/16" wrench. Slide the cast iron auger motor coupler and the steel spacer plate off of the auger motor.
6. Loosen the allen set screw which holds the steel auger coupler to the auger motor output shaft, and remove the steel auger coupler, as well as the rubber vibration dampener.
7. Reinstall the parts in reverse order on the new auger motor, being careful not to over-tighten the bolts which hold the cast iron auger coupler to the auger motor.



REPLACING COMPONENTS

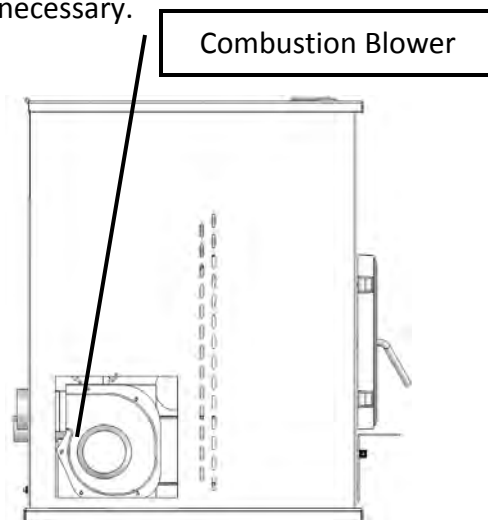
Convection Blower

1. Before beginning any component replacement, be certain the unit is unplugged and thoroughly cooled down.
2. Remove the back exhaust outlet cover plate and back panel from the unit.
3. Detach the convection blower from the wiring harness before loosening the four screws which secure it to the convection shroud of the stove.
4. After loosening and removing the four screws which hold the blower to the stove, remove the blower from the stove.
5. Installation of the new blower is performed in reverse of removal; remember to reconnect the new blower to the wiring harness.



Combustion Blower

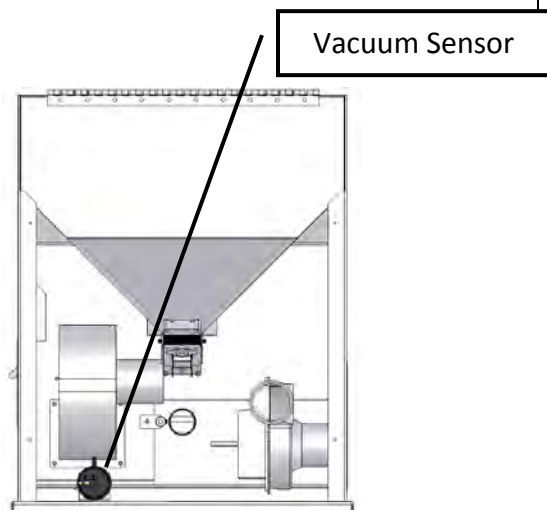
1. Before beginning any component replacement, be certain the unit is unplugged and thoroughly cooled down.
2. Remove the 5/16" screw which holds the exhaust blower access door to the stove.
3. Disconnect the venting system from the exhaust blower, and disconnect the exhaust blower from the stove wiring harness. Remove the thermal sensor screw on the top of the exhaust blower outlet using a 5/16" wrench.
4. Remove all five screws which hold the exhaust blower to the exhaust blower tube. Once the screws have been removed, the blower can be lifted up and out of the stove.
5. Reinstallation is the exact opposite of the steps above; however be certain to check the condition of the exhaust blower gasket and replace if necessary.



REPLACING COMPONENTS

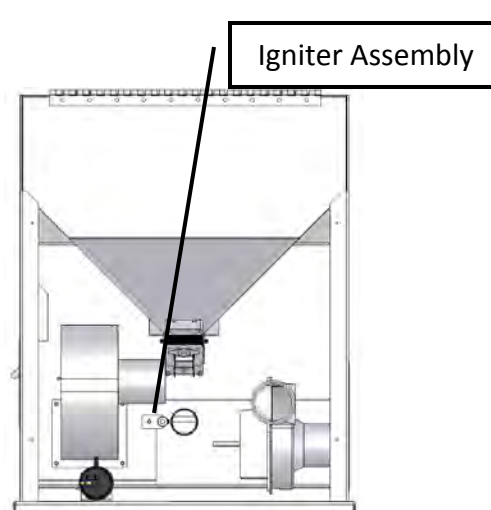
Vacuum Sensor

1. Before beginning any component replacement, be certain the unit is unplugged and thoroughly cooled down.
2. Remove the exhaust outlet cover plate and rear panel of unit.
3. Locate the vacuum sensor as shown in the diagram below.
4. Disconnect the stove wiring harness and vacuum hose from the vacuum sensor, taking note of where connections were made.
5. Remove the two screws which hold the vacuum sensor to the vacuum sensor bracket, using a phillips screw driver.
6. Installation is the reverse of removal; be absolutely certain the wires and vacuum hose are connected according to the wiring diagram in this manual.



Igniter

1. Before beginning any component replacement, be certain the unit is unplugged and thoroughly cooled down.
2. Remove the exhaust outlet cover plate and rear panel of unit.
3. Locate the igniter as shown in the diagram below.
4. Disconnect the igniter wiring from the control board and use a 5/16" wrench to remove the igniter retaining screw.
5. Loosen the allen set screw (1/8" allen wrench) and remove the old igniter cartridge.
6. Install the new igniter in the igniter tube, retighten the set screw and reinstall the assembly into the stove. Be certain to reconnect the new igniter wires to the circuit board before reassembly.



REPLACING COMPONENTS

IMPROPER GASKET MAINTENANCE, INCLUDING FAILURE TO REPLACE GASKETS, CAN CAUSE AIR LEAKS RESULTING IN SMOKE-BACKS.

Gaskets

1. Door

- This unit comes with a $\frac{5}{8}$ " rope gasket around the door that should be replaced at least every two years. To replace the door gasket (Part # AC-DGKNC), the old gasket must first be removed entirely — prior to adding the new adhesive, you may have to scrape the old cement from the door channel. Once the cement and gasket have been added, the door should be closed and latched for twenty-four hours to allow the cement to harden.

2. Window

- If you are replacing the window gasket (Part # AC-GGK), the new gasket will already have adhesive on one side. Remove the paper on the adhesive side and place the gasket around the outside edge of the glass, centered over the edge. Fold the gasket edges over on the glass, forming a "U" shape.

3. Combustion Blower

- The Combustion Blower Gasket (Part # PU-CBG) should be inspected whenever you remove or clean the Combustion Blower and replaced if necessary.

4. Combustion Blower Motor

- The combustion blower motor gasket (Part # PU-CMG) generally does not need replacement, as it not normally removed from the unit. However, if the exhaust blower is cleaned by removing the motor, rather than the entire blower assembly, this gasket must be inspected and replaced as necessary.

Finish

This new unit has been painted with High-Temperature Paint that should retain its original look for years. If the unit should get wet and rust spots appear, the spots can be sanded with fine steel wool and repainted. It is crucial that only High-Temperature Spray Paint is used (Part # AC-MBSP), as others may not adhere to the surface or withstand the high temperatures. Similarly, some brands of paint will not adhere to different brands of paint, so we highly recommend using our proprietary High-Temperature Spray Paint.

REPLACING COMPONENTS

Glass

This unit has a one ceramic glass panel (Part No. AC-G17) in the viewing door; self adhesive window gasket is included with replacement windows purchased directly from England's Stove Works. Never replace ceramic glass with tempered or any other type of glass and never operate this unit with cracked or broken glass.

Ceramic Glass Specifications

- Glass Size: 16.50" x 9.25"
- Glass Type: 5mm Ceramic Glass (Keralite Pyroceram)
- Glass Manufacturer: Eurokera

Glass Precautions

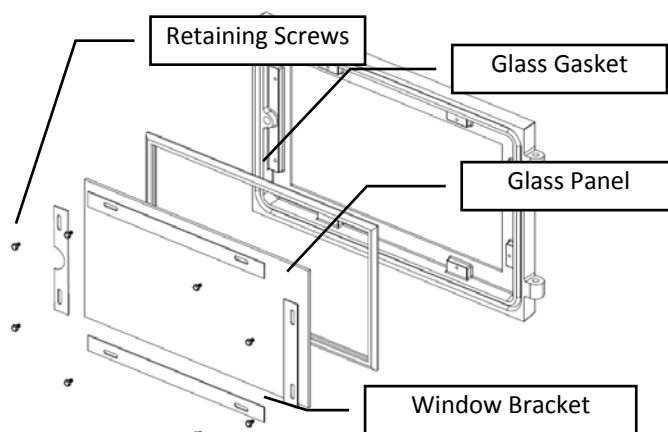
1. Never replace ceramic glass with tempered or any other type of glass.
2. Never operate this unit with cracked or broken glass.
3. Do not slam the door or strike the glass with any objects.

Glass Cleaning

1. Be certain the stove **and** the glass are completely cool.
2. The build-up on the glass will generally be light and water is normally sufficient to remove the deposits. If stubborn soot persists, use a cleaner made specifically for this purpose. Do not scrape the glass or use abrasive cleaners.
3. Rinse the glass with clean water and dry the glass before resuming normal operation.

Glass Replacement

1. Remove the door from the stove and rest it face down on a firm work surface.
2. Using a 5/16" wrench, remove the eight (8) window bracket retaining screws [A].
3. Remove the four (4) window brackets from the door. Take extra care to avoid shards of glass if the glass window has been broken.
4. Lift the old glass panel out of the door and discard.
5. The new glass panel must be wrapped with a self-adhesive fiberglass tape gasket (PU-GGK). This gasket serves to cushion the glass from the cast iron door.
6. Reinstall the window retaining brackets using the eight (8) screws previously removed. Do not over-tighten the screws.



REPLACING COMPONENTS

Control Board

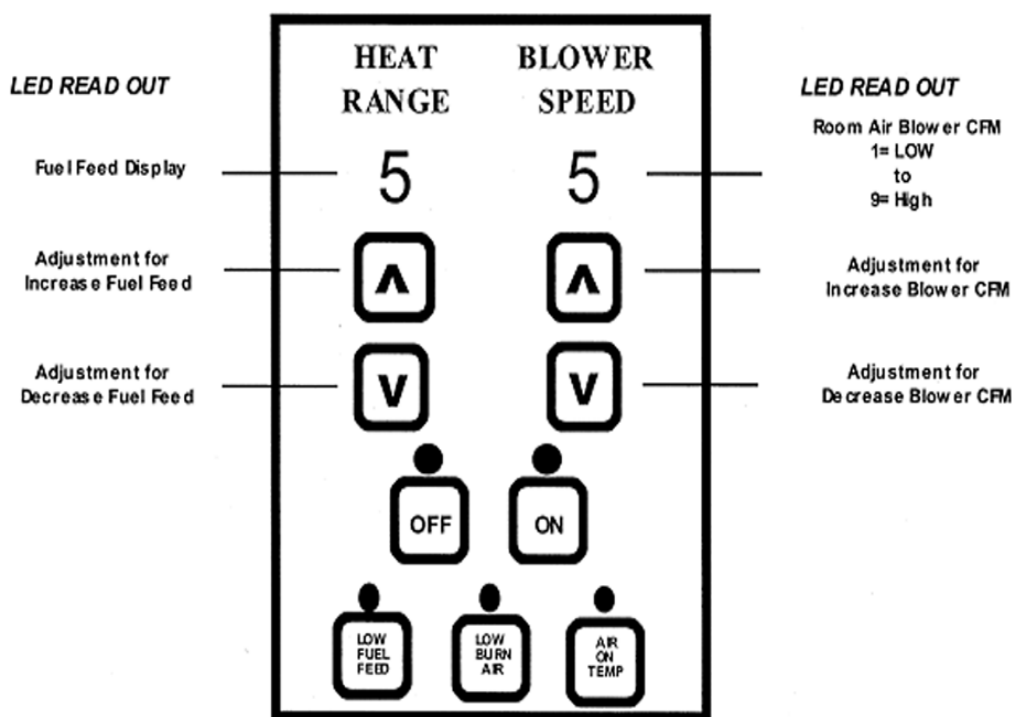
The Control Board (Part # PAH-CB09) is a digital read-out board. This board offers a wide variety of settings to operate the unit. The right side panel should be removed prior to removing the control board. The control board can be removed from the unit by loosening the two outside screws and pulling the board back to the inside of the stove. A 6-amp “quick-blow” fuse is used on this Control Board.

NOTE: The bottom three control buttons are preset at the factory and are not user adjustable. See the “Daily Operation” section on pages 16-17 of the manual for more instructions on Control Board settings.

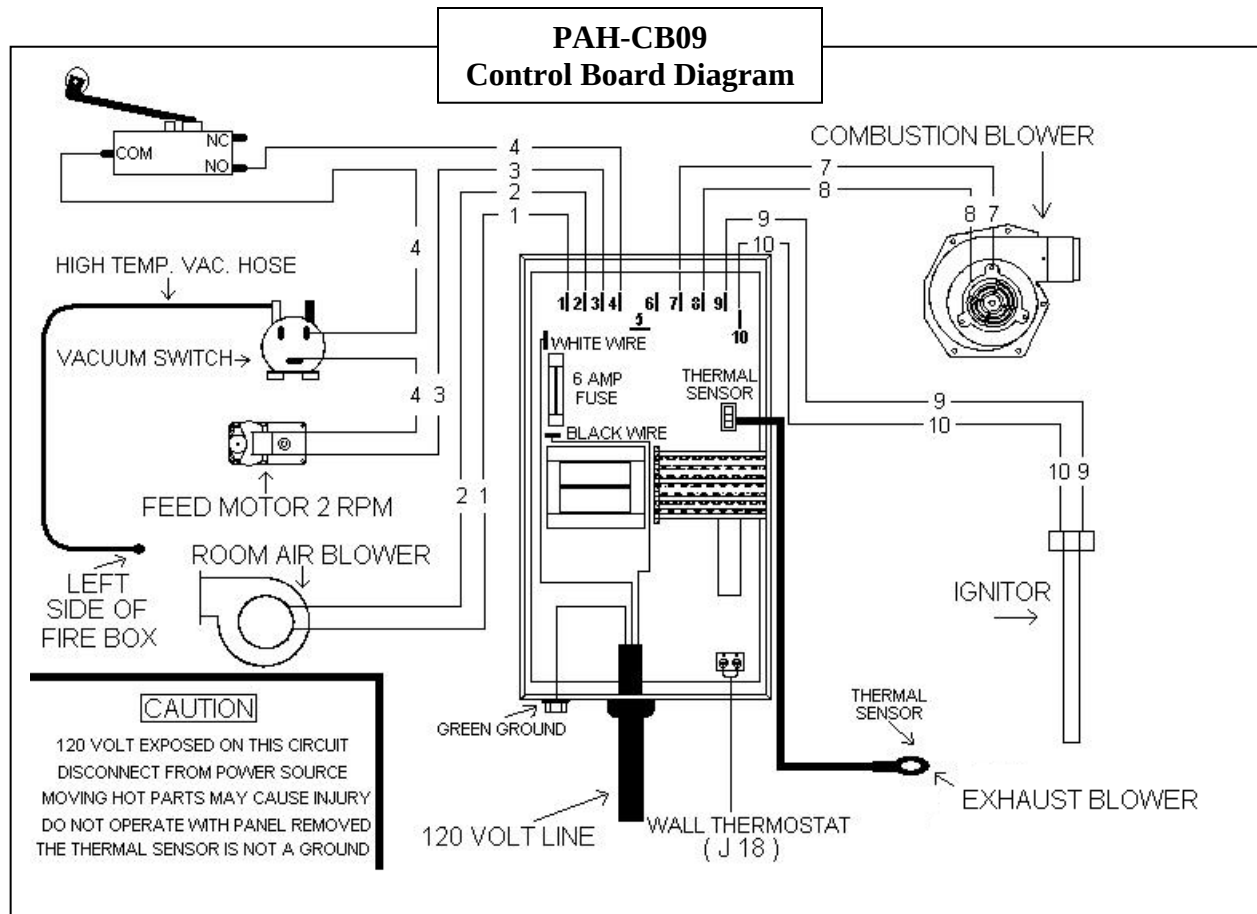
Recommended Heat Ranges:

Low Burn:	Heat Range setting: 1	Room Air Blower setting: 1
Medium Low:	Heat Range setting: 2 – 3	Room Air Blower setting: *
Medium High:	Heat Range setting: 4 – 8	Room Air Blower setting: *
High Burn:	Heat Range setting: 9	Room Air Blower setting: 9

* NOTE: Blower Speed will automatically be adjusted to the desired Heat Range that you select.



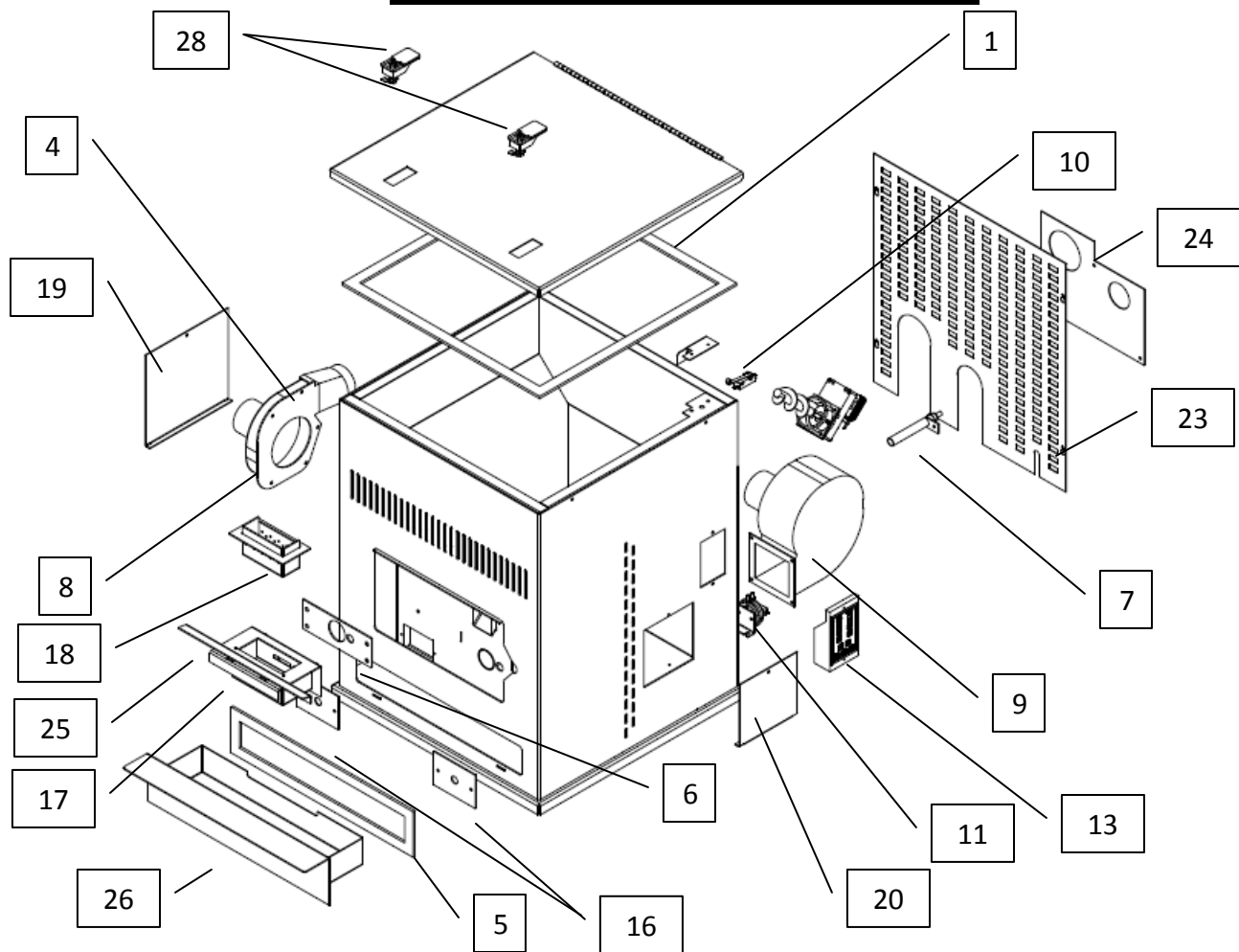
WIRING DIAGRAM



Caution – Shock Hazard

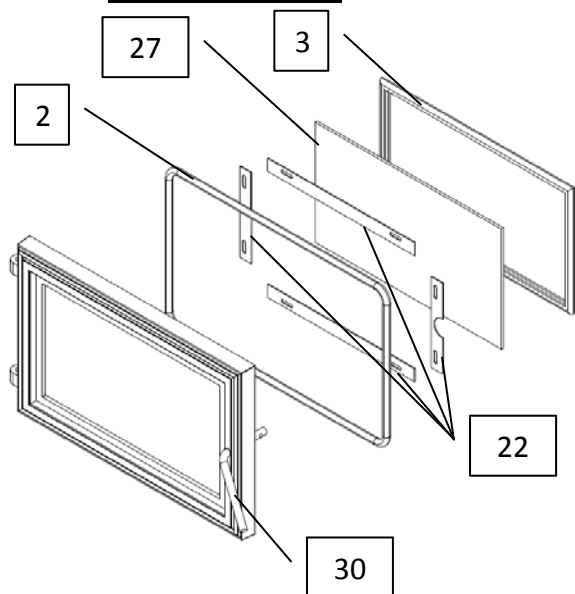
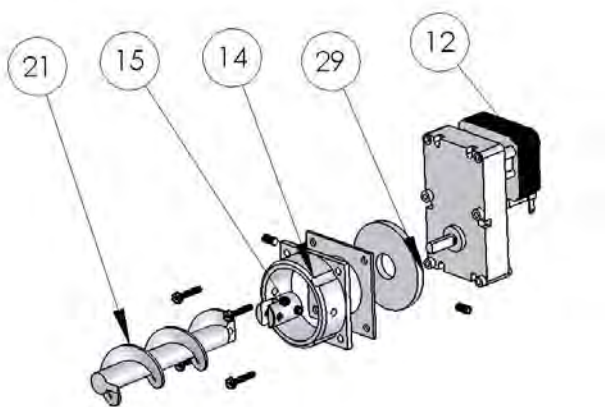
- Press the “Off” button and let the appliance completely cool BEFORE unplugging the appliance and beginning any maintenance or component replacement.
- Risk of shock if appliance is not unplugged before service.

ILLUSTRATED PARTS DIAGRAM



Auger Motor Assembly

Door Assembly



REPLACEMENT PARTS LIST

Part Number	Part Description	Diagram #
Gaskets		
PU-HLG	Hopper Lid Gasket	1
AC-DGKNC	5/8" Door Gasket	2
AC-GGK	Window Gasket Kit	3
PU-CBG	Exhaust Blower Gasket	4
AC-GGK	Ash Pan Gasket	5
PU-CGEP	Cradle Mating Gasket	6
Electrical Components		
PU-CHA	Igniter Cartridge Heater	7
PU-076002B	Exhaust Blower	8
PU-4C447	Room Air Blower	9
AC-HLS	Hopper Lid Switch	10
CU-VS	.05" of WC Vacuum Sensor	11
CU-047042	2 RPM Auger Motor	12
PAH-CB09	Control Board	13
Cast Iron		
CA-AMPP	Cast Iron Auger Motor Collar	14
CA-13	Cast Iron Door	30
Steel		
CA-AC	Steel Auger Coupler	15
PAH-ECC	Exhaust Cleanout Covers	16
PAH-BPC	Cradle	17
PAH-BP	Burnpot	18
PAH-EBAD	Combustion Blower Access Door	19
PAH-BAD	Convection Blower Access Door	20
PU-AFEP	Steel Auger	21
AC-GS13	Glass Support Brackets	22
PAH-RAP	Rear Access Panel	23
PAH-ECP	Exhaust Outlet Cover Plate	24
PAH-AWB	Airwash Bar	25
PAH-AP	Ash Pan	26
Glass		
AC-G17	Window Glass	27
Misc		
PU-62-40-151-3	Hopper Lid Latch	28
PU-VH	High Temp. Vacuum Hose	Not Shown
CU-RG	Rubber Vibration Dampener	29
AC-SHN	Nickel Spring Handle	Not Shown
AC-SH	Brass Spring Handle	Not Shown
PU-PGB52	Exhaust Tube Insulation Wrap (PDV)	Not Shown

PELLET FUEL BURNING ROOM HEATER
MODEL: 25-PAH, 55-SHPAH, 55-TRPAH

Tested &
Listed By
O-T-L
US
OMNI-Test Laboratories, Inc.
Report No. 428-S-01-2
Portland
Oregon USA

SERIAL NO.

MFG. DATE

MFG. BY:
England's Stove Works, Inc.
P.O. Box 206
Monroe, VA 24574

TESTED TO: ASTM E1509-04, ULC S627-00 & ULC/ORD-C1482-M1990

ROOM HEATER, PELLET-FUEL BURNING TYPE, ALSO FOR USE IN MOBILE HOMES.

FOR USE WITH .25 IN. DIAMETER WOOD PELLET FUEL ONLY
INPUT RATING: 31,000 BTU/HR ELECTRICAL RATING: 120V, 60Hz, 3.8A
DO NOT REMOVE OR COVER THIS LABEL

- KEEP DOOR & HOPPER LID TIGHTLY CLOSED DURING OPERATION.
- UNIT MUST BE PLACED ON A NON-COMBUSTIBLE FLOOR PROTECTOR EXTENDING 6.0 IN. FROM THE FRONT OF THE UNIT, 6.0 IN. FROM THE SIDES OF THE UNIT AND 4.0 IN. FROM THE REAR, WITH AN R VALUE OF 0.2.
- CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS & INSTALLATION INSPECTION IN YOUR AREA.
- INSTALL AND USE ONLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION AND OPERATION INSTRUCTIONS.
- VENTING SYSTEM: 3.0 IN. MIN. TYPE L OR P PELLET VENT PIPE. INSTALL AT LEAST 3.0 IN. FROM A COMBUSTIBLE WALL OR CEILING.
- REFER TO LOCAL BUILDING CODE & MANUFACTURER'S INSTRUCTIONS FOR VENTING SYSTEM INFORMATION AND FOR PASSING A CHIMNEY OR CHIMNEY CONNECTOR THROUGH A COMBUSTIBLE WALL OR CEILING.
- INSPECT AND CLEAN EXHAUST VENTING SYSTEM FREQUENTLY.
- DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.
- THE POWER CORD MUST BE ROUTED AWAY FROM THE UNIT.
- SEE THE OWNER'S MANUAL FOR ADDITIONAL CLEARANCE INFORMATION.
- MEETS EPA PARTICULATE MATTER REQUIREMENTS FOR WOOD HEATERS BUILT AFTER JULY 1, 1990 UNDER EPA 40 CFR 60.533(H).

CAUTION: KEEP VIEWING AND ASH REMOVAL DOORS TIGHTLY CLOSED DURING OPERATION. SEE OWNER'S MANUAL FOR INSTRUCTIONS REGARDING HEAT OUTPUT CONTROLS. OPERATE THIS UNIT ONLY WITH THE FUEL HOPPER LID CLOSED. FAILURE TO DO SO MAY RESULT IN EMISSION OF PRODUCTS OF COMBUSTION FROM THE HOPPER UNDER CERTAIN CONDITION. MAINTAIN HOPPER SEAL IN GOOD CONDITION. DO NOT OVERFILL THE HOPPER.

PREVENT CREOSOTE FIRE: INSPECT CHIMNEY CONNECTION & CHIMNEY TWICE MONTHLY & CLEAN IF NECESSARY. DO NOT OVERFIRE: IF UNIT OR CHIMNEY GLOWS, YOU ARE OVERFIRING.



CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. CONTACT MAY CAUSE SKIN BURNS. SEE DATA PLATE & INSTRUCTIONS. KEEP FURNISHINGS AND OTHER COMBUSTIBLES FAR AWAY FROM APPLIANCE.

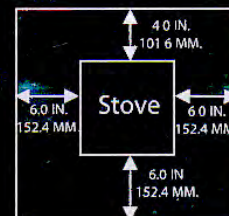
INSTALL WITH MINIMUM
CLEARANCES TO WALLS
AS SHOWN.



SIDEWALL - BACKWALL
INSTALLATION



CORNER INSTALLATION



FLOOR PROTECTION

You may write your unit's Manufacture Date and Serial Number in the blank spaces on this sample tag, for future reference. This sample tag also shows the safety info. such as UL testing standard, etc. for your local officials, or anyone else who may need reference information.

LIMITED FIVE (5) YEAR WARRANTY

From the date of purchase to the original owner

The manufacturer extends the following warranties:

Five Year Period:

1. Carbon steel and welded seams in the firebox are covered for five (5) years against splitting.
2. The steel door and hinges are covered for five (5) years against cracking.

One Year Period:

1. Component parts such as the hopper, auger, burn-pot, auger shaft and fasteners are covered for one (1) year against cracking, breakage and welded seam separation.
2. Electrical components, accessory items, glass and the painted surface of the stove are covered for one (1) year from the date of purchase.

Conditions and Exclusions

1. Damage resulting from over-firing will void your warranty.
2. This warranty does not apply if damage occurs because of an accident, improper handling, improper installation, improper operation, abuse or unauthorized repair made or attempted to be made.
3. The manufacturer is not liable for indirect, incidental, or consequential damages in connection with the product including any cost or expense, providing substitute equipment or service during periods of malfunction or non-use.*
4. All liability for any consequential damage for breach of any written or implied warranty is disclaimed and excluded.

- Some states do not allow the exclusion of limitations of incidental or consequential damages, so the above may not apply to you.

Procedure

Purchaser must give notice of claim of defect within the warranty period and pay transportation to and from a service center designated by the manufacturer. The dealer from which the unit was purchased or the factory, at our option, will perform the warranty service.

Other Rights

This warranty gives you specific legal rights; you may also have other rights,

Please Note: This warranty is null and void if the attached warranty registration AND a copy of the sales receipt is not returned within thirty (30) days from the date of purchase.

Warranty is not transferable.

which may vary from state to state.

WARRANTY REGISTRATION for England's Stove Works®

Purchaser Information

I. Purchased By (Name) _____

II. Address _____

III. City _____ State _____ Zip Code _____

IV. Telephone Number _____

V. Email Address _____

Dealer Information

VI. Purchased From _____

VII. Address _____

VIII. City _____ State _____ Zip Code _____

Unit Information

IX. Model Number _____ Purchase Date _____

X. Purchase Price _____

XI. Serial Number _____ Mfg. Date _____

Purchase Questions

How did you first hear about our product? (Please check one)

Word of Mouth _____ Burn Trailer Demonstration _____ Internet _____

Other: _____

Where did you receive information about our product?

Via Telephone _____ Dealer (Name of dealer) _____ Internet _____

Other: _____

Important Notice

This registration information **MUST** be on file for this warranty to be valid. Please mail this information within thirty (30) days from the original date of purchase.

Use any of these three easy ways to send your warranty information in!

Mailing Address

England's Stove Works, Inc.
Technical support Department
P.O. Box 206
Monroe, Virginia 24574

Fax Number

(434) 929-4810 – Twenty-four hours a day.

Online Registration

Visit our warranty registration website at:

<http://www.englishstoves.com/warranty/warranty.html>