



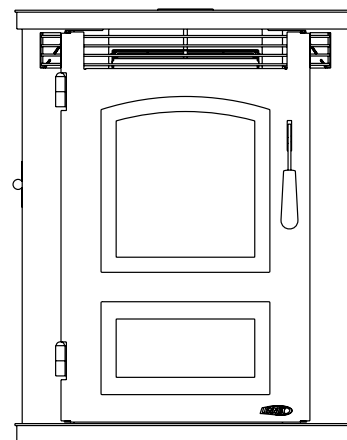
INSTALLATION AND OPERATION MANUAL

ELITE™ SERIES

Free-Standing Pellet Stove

Save These Instructions
For Future Reference

P/N 775,196M, Rev. NC, 06/2008



Pellet Stove Model Montage™ 32FS



Report No. 3105656MID

A French manual is available upon request. Order P/N 775,196CF.

Ce manuel d'installation est disponible en français, simplement en faire la demande. Numéro de la pièce 775,196CF.

These appliances must be properly installed and operated in order to prevent the possibility of a house fire. 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. Contact your local building or fire officials to obtain a permit and information on any installation requirements and inspection requirements in your area.



www.nficertified.org

We recommend that our pellet hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Pellet Specialists or who are certified in Canada by Wood Energy Technical Training (WETT).



WARNINGS

- **Hot! Do not touch! The glass and surfaces of this appliance will be hot during operation and will retain heat for a while after shutting off the appliance. Severe burns may result.**
- **Carefully supervise children in the same room as appliance.**
- **Lennox™ pellet-burning appliances are designed for use as a supplemental heater. They are not intended for continuous use as a primary heat source.**



IMPORTANT SAFETY AND WARNING INFORMATION

READ THIS MANUAL IN ITS ENTIRETY AND UNDERSTAND THESE RULES TO FOLLOW FOR SAFETY.



WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer or service agency.



WARNING

Do not attempt to alter or modify the construction of the appliance or its components. Any modification or alteration may void the warranty, certification and listings of this unit.

1. **DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.**
2. Do not connect this appliance to air ducts or any air distribution system.
3. **DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS UNIT.**
4. Do not use class B venting intended for gas appliances as a chimney or connector pipe on a pellet-fired appliance.
5. The minimum clearances must be maintained for all combustible surfaces and materials including; furniture, carpet, drapes, clothing, wood, papers, etc. Do not store combustibles within this clearance space (see *Clearances* on Page 5).
6. **INSTALLATION DISCLAIMER** - It is imperative that the exhaust venting system be installed correctly and sealed gas-tight (not allowing exhaust to leak). Follow the vent manufacturer's instructions for proper installation. Since Lennox Hearth Products has no control over the installation of your stove, Lennox Hearth Products grants no warranty, implied or stated for the installation or maintenance of your stove, and assumes no responsibility for any consequential damage(s).
7. Burning any kind of fuel consumes oxygen. If outside air is not ducted to the appliance, ensure that there is an adequate source of fresh air available to the room where the appliance is installed.
8. The appliance will not operate using natural draft, nor without a power source for the blower and fuel feeding systems.
9. 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 it is in use.
10. The authority having jurisdiction such as municipal building department, fire department, fire prevention bureau, etc. should be consulted before installation to determine the need to obtain a permit.
11. **APPROVED FUEL:** This appliance is designed specifically for use only with pelletized wood fuels only. This appliance is designed and approved for the burning of wood residue pellets with up to 3% ash content. This appliance is NOT approved to burn cardboard, nut hulls, cherry pits, corn, etc. regardless if it is in pellet form. Failure to comply with this restriction will void all warranties and the safety listing of the stove. Consult with your Lennox Hearth Products dealer for more information on approved pellet fuels.
12. **CONTINUOUS OPERATION:** When operated correctly, this appliance cannot be overfired. Continuous operation at a maximum burn can, however, shorten the life of the electrical components (blowers, motors, and electronic controls), and is not recommended. Typical approved operation would include running at the low to mid range setting with occasional running on the maximum setting during the coldest periods of the winter. **DO NOT OVER-FIRE THIS STOVE.** Follow all instructions regarding the proper use of this stove.
13. **CAUTION: NEVER PUT FINGERS NEAR AUGER.** This appliance is equipped with a hopper lid switch, which is designed to stop the auger when the hopper lid is opened. **NEVER DISCONNECT OR BYPASSED THIS SWITCH FOR ANY REASON.** Pellet fuel is fed to the UltraGrate™ by a screw auger. This auger is driven by a high torque motor. The auger is capable of doing serious harm to fingers. Keep pellets in the hopper at all times and keep fingers away from auger. The auger can start and stop automatically at any time while the stove is running.
14. **CAUTION: HOT WHILE IN OPERATION.** An appliance hot enough to warm your home can severely burn anyone touching it. Keep children, clothing and furniture away. Contact may cause skin burns. Do not let children touch the appliance. Train them to stay a safe distance from the appliance.
15. **FLY ASH BUILD-UP:** For all wood pellet fuel-burning heaters, the combustion gases will contain small particles of fly-ash. This will vary due to the ash content of the fuel being burned. Over time, the fly-ash will collect in the exhaust venting system and restrict the flow of the flue gases. The exhaust venting system should be inspected regularly and cleaned as necessary.
16. **SOOT FORMATION:** Incomplete combustion, such as 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. A precautionary inspection on a regular basis is advisable to determine the necessity of cleaning. The exhaust venting system should be inspected regularly and cleaned as necessary.
17. **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.
18. The instructions must be strictly adhered to. Do not use makeshift methods or compromise in the installation.
19. Do not abuse the door glass by striking, slamming or similar trauma. Do not operate the stove with the glass removed, cracked or broken.
20. **SAVE THESE INSTRUCTIONS.**
21. See the safety / listing label on the appliance hopper lid.

CONGRATULATIONS!

When you purchased your new pellet stove, you joined the ranks of thousands of individuals whose answer to their home heating needs, aesthetics, efficiency and our environment. We extend our continued support to help you achieve the maximum benefit and enjoyment available from your new pellet stove.

It is our goal at Lennox Hearth Products to provide you, our valued customer, with an appliance that will ensure you years of trouble-free warmth and pleasure.

Thank you for selecting a Lennox® stove as the answer to your home heating needs.

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This installation and operation manual will help you obtain a safe, efficient, dependable installation for your appliance and vent system.

PLEASE READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE BEGINNING YOUR INSTALLATION

Packaging List

The assembled pellet stove model Montage™ 32FS is packaged with an accessory package in the hopper and a grate scraper tool secured to the pallet:

- One - Installation And Operation Manual
- One - Warranty
- One - Power Cord
- One - Grate Scraper Tool
- One - Wall Thermostat w/ 20 Foot Roll Of Wire
- One - 5/32" Allen Wrench
- One - Cleaning Brush

TESTING / LISTING

Listing: The listing laboratory is ITS (Intertek Testing Services) and the listing mark is Warnock Hersey. The report number is 3105656MID for model Montage 32FS pellet stove.

Testing: In accordance with the specifications and procedures

- Listed and tested to UL 1482/ULC S627 and ASTM E 1509 for solid fuel room heaters.
- The safety/listing label is located on an inside hopper surface of the pellet stove. Please read this safety label carefully. It contains important information about installation and operation of this appliance.
- This appliance is tested and listed for residential installation according to current national and local building codes as:
 - A Free-Standing Room Heater
 - A Manufactured Home Heater

EPA (Environmental Protection Agency)

Status: EPA Certified - This appliance has been tested to rigorous emissions standards, and has been certified by the Environmental Protection Agency.

USING THIS MANUAL

Please read and carefully follow all of the instructions found in this manual. Please pay special attention to the safety instructions provided in this manual.

PRODUCT IS SUBJECT TO CHANGE WITHOUT NOTICE

PLANNING YOUR INSTALLATION

Questions To Ask Local Building Official

A correct installation is critical and imperative for reducing fire hazards and perilous conditions that can arise when wood pellet burning appliances are improperly installed. The installer must follow all of the manufacturers' instructions.

WARNING

Check all local building and safety codes before installation. The installation instructions and appropriate code requirements must be followed exactly and without compromise. Alterations to the stove are not allowed. Do not connect the stove to a chimney system serving another stove, appliance, or any air distribution duct. Failure to follow these instructions will void the manufacturers warranty.

The installation of this appliance must conform to local codes and applicable state and federal requirements. Familiarity with these requirements before installation is essential. Important considerations to discuss with local building officials include:

- Applicable codes** (i.e. Uniform Mechanical Code, State or Regional Codes).

Electrical codes:

In USA, NEC, ANSI/NFPA 70 – Latest Edition

In Canada, CSA C22.1 – Latest Edition

Power Supply Requirements

These requirements must be met unless otherwise specified by state or local authorities.

- **Power Cord** - The power cord must be plugged into a standard, 120 Volt, 60 Hz grounded electrical outlet with proper ground and polarity. The power cord must be routed to avoid contact with any of the hot or sharp exterior surface areas of the stove.
- **Power Supply** - 575 Watts, and will peak up to 782 Watts during the 30 minute cycle when igniter is operating.
- **Manufactured Home Installations** - When installed into a manufactured home, the appliance must be electrically grounded to the steel chassis (see **Page 7, Manufactured Home Requirements**).

WARNING

Electrical grounding instructions: This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug. Do not route power cord under or in front of appliance.

2. Local amendments
3. Is a permit required - cost. You may wish to contact your insurance company to ask if they require this.
4. If outside combustion air is required
5. Rooms where the installation is not allowed

Surge Protectors

A surge protector is recommended to ensure the stove's electrical components are not damaged due to a surge in the electrical supply. Only high quality protectors should be used - cheap ones do not provide the protection needed.

Smoke Detectors

Since there are always several potential sources of fire in any home, we recommend installing smoke detectors. If possible, install the smoke detector in a hallway adjacent to the room (to reduce the possibility of occasional false activation from the heat produced by these appliances). If your local code requires a smoke detector be installed within the same room, you must follow the requirements of your local code. Check with your local building department for requirements in your area.

Installation / Maintenance Standards

National Fire Protection Association – The primary NFPA standard that refers to installation and maintenance of pellet stoves and venting is NFPA 211 – Latest Edition: Chimneys, Fireplaces, Vents, and Solid Fuel appliances.

SELECTING A LOCATION

The design of your home and where you place your stove will determine its value as a source of heat. This type of appliance depends primarily on air circulation (convection) to disperse its heat, and therefore, a central location is often best. There are other practical considerations, which must be considered before a final selection of locations is made.

- Existing Chimneys
- Pellet Fuel Storage
- Aesthetic Considerations
- Roof Design (rafter locations and roof pitch)
- Room Traffic
- Proximity to Combustibles
- Electrical Wiring

CAUTION

These appliances are very heavy. The use of a heavy duty escalara (stair step hand truck) is recommended for lifting the appliance.

NEGATIVE PRESSURE WARNING

This appliance is not designed to be operated in a negative pressure. Very airtight homes with large kitchen exhaust fans, or homes with furnace cold air returns located in close proximity to the stove may create negative pressure in the same room as the heating appliance. This can create dangerous condition, drawing combustion by-products into the home. Be sure your home has adequate makeup air to eliminate negative pressures caused by the above-mentioned sources. Outside air connected to the appliance probably will not resolve such a problem as the stove is not the source of negative pressure. Lennox Hearth Products accepts no liability for damages resulting from negative pressures described here.

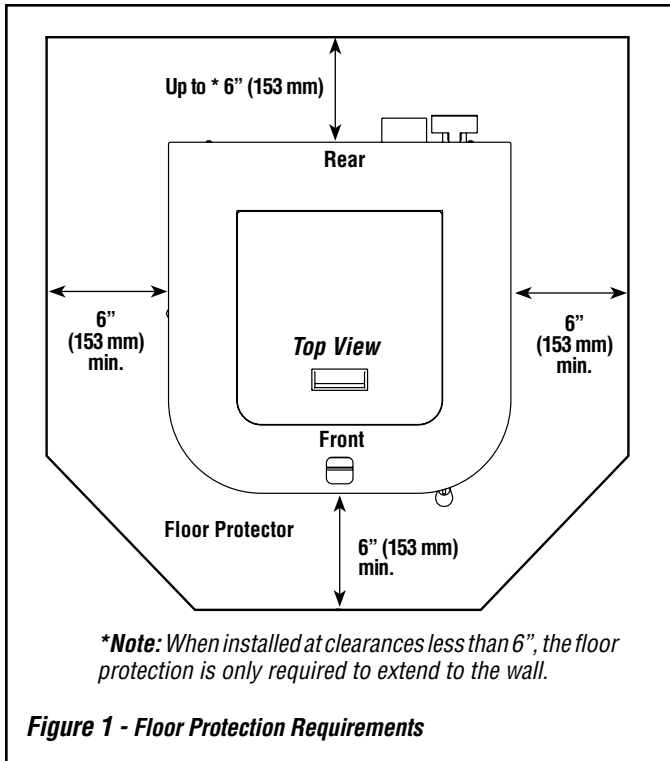
Ventilation Requirements - Provide adequate air for combustion. The fresh air requirements of this appliance must be met within the space where it will be installed. Ventilation is essential when using a solid-fuel-burning heater. In well insulated and weather tight homes, it may inhibit the rate the exhaust flows through the venting system (caused by a shortage of air in the home). The lack of air is caused by many common household appliances which exhaust air from the home (such as a furnace, heat pump, air conditioner, clothes dryer, exhaust fans, fireplaces, and other fuel burning appliances). Also, the combustion process of this heater uses oxygen from inside the dwelling. If the available fresh air delivery in the dwelling is insufficient to support the demands of these appliances, problems can result (i.e. excessive negative pressure will result in performance problems. To correct this problem it may help to open a window (preferably on the windward side of the house) or install an outside combustion air duct to the appliance.

FLOOR PROTECTION

This appliance requires noncombustible floor protection **(the hearth pad or alternate floor protection material does not require a thermal rating).**

A noncombustible floor protector must fully cover the area beneath the appliance and extend 6" to the front, 6" to the sides, and up to 6" from the back as illustrated in **Figure 1**.

If the floor protection is to be stone, tile, brick, etc., it must be mortared or grouted to form a continuous noncombustible surface. If a chimney connector extends horizontally over the floor, protection must also cover the floor under the connector and at least 2" (51 mm) to either side. See Clearances and Hearth Protection shown in **Figure 1**.

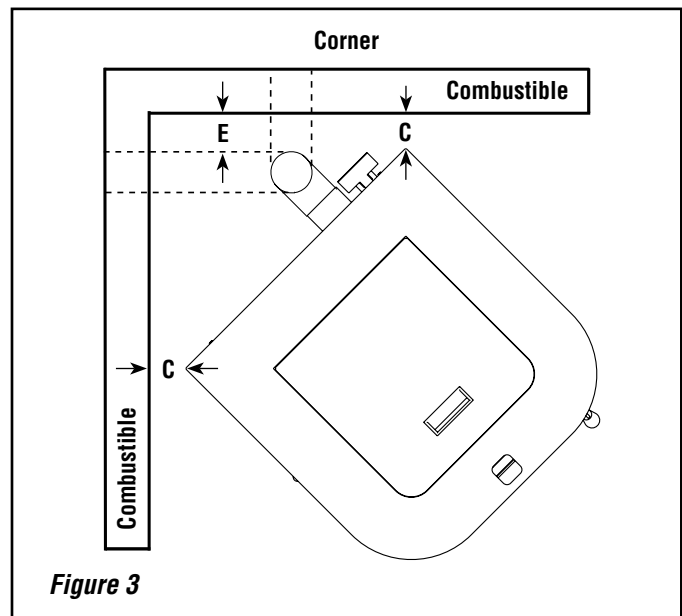
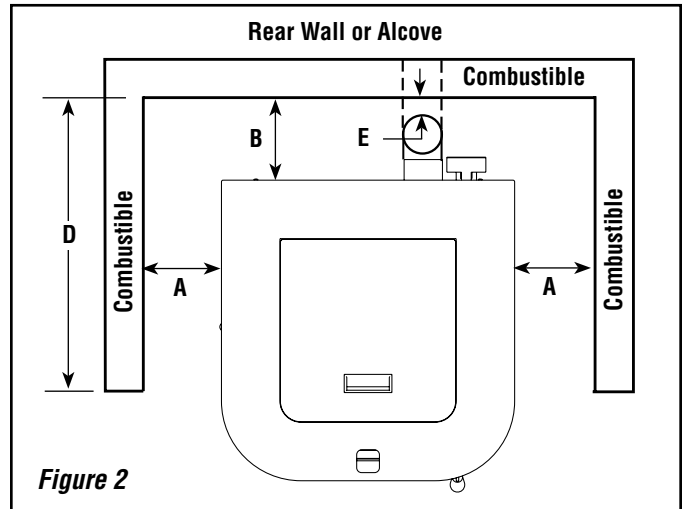


CLEARANCES

Standard residential or manufactured home installation. These appliances require the following minimum clearances to combustibles:

Minimum Clearances To Combustibles

Montage 32FS	Horizontal Flue – Directly Through Wall	Interior Vertical Flue
A - Side wall to unit	① 4" (102 mm)	① 4" (102 mm)
B - Back wall to unit	2" (51 mm)	9" (229 mm)
C - Side wall to unit Corner	1" (25 mm)	1" (25 mm)
D - Max. Depth of Alcove	② 24" (610 mm)	② 24" (610 mm)
E - Flue to Wall	3" (77 mm)	3" (77 mm)
① Measured to fuel hopper lid in alcove. ② Minimum Alcove Measurements - Height 48" (1220 mm) x Width 31" (788 mm) x Maximum Depth 24" (610 mm)		
Table 1 - Minimum Clearances To Combustibles		



! IMPORTANT

- **Minimum clearances specified may not allow for ease of operation and maintenance (please take this in to account when planning the installation). If installed to the minimum clearances, removal of the appliance may be necessary for servicing.**
- **Recommended clearance zone from the front of the appliance to combustibles is 4 feet minimum.**
- **Clearances to combustibles for the appliance can only be reduced by means approved by the regulatory authority.**

INSTALLATION TIPS

INSTALLATION TIPS Select Your Installation Type

GOOD INSTALLATION:

Horizontal Installation
(Direct Vent - Outside Wall)

No natural draft. Wind pressures may affect operation

BETTER INSTALLATION:

Vertical & Horizontal Installation
(Up and Out)

Some natural draft aids venting. Wind pressures may still affect operation

BEST INSTALLATION:

Vertical Installation
(Straight Up)

Natural draft improves operation and negative effects from wind

VENTING TYPE

a: PL-Vent Pipe / Pellet Vent (w/stainless interliner)
b: Stainless Steel flex liner may be used inside existing flue or chimney (woodstove replacement applications)

CAUTION: Do not use Type B-Vent Pipe

REQUIRES 3" DIAMETER STANDARD PL-VENT / PELLET PIPE

With listed termination kit. If installation requires in excess of 11' of pipe, it is recommended a 4" diameter pipe be used.

MANUFACTURED HOME

Requires outside air for combustion. Use a galvanized or stainless steel pipe for duct. Minimum duct size 1-5/8" dia.

CLEARANCES TO COMBUSTIBLES

Ensure all clearances are maintained in accordance to instructions contained on product safety label and in compliance with pipe/venting requirements.

Seal all Venting Joints:

Use RTV
(high temp silicone)

POWER SUPPLY

Must have proper polarity and be grounded.

Note: Use of an extension cord may adversely effect the performance of your unit.

**PLEASE REVIEW THIS ENTIRE
INSTALLATION AND OPERA-
TION MANUAL FOR ADDITIONAL
INSTRUCTIONS.**

MANUFACTURED HOME INSTALLATION

In addition to the standard installation instructions, the following instructions may be required by local, state or federal building codes:

- Installation should be in accordance with the Manufactured Home and Safety Standard (HUD), CFR 3280, Part 24.
- The stove must be permanently bolted to the floor using two or three 1/4" or 5/16" Ø x 5" lag screws as shown in **Figures 4A, 4B, 5A and 5B**.
- An outside air inlet must be provided for combustion and be unrestricted while unit is in use. Use a galvanized or stainless steel pipe for the duct (the outside air inlet on the stove is 1-5/8" diameter). The air intake on the exterior of the home should always be located substantially below the flue termination. See **Figures 4B and 15**.
- Stove must be permanently electrically grounded to the steel chassis of the home using a 8 GA copper wire and a serrated or star washer (to penetrate paint or protective coating to ensure grounding). The location selected for ground attachment to the stove must be dedicated for this purpose. Grounding must comply with NFPA-70 standards, CSA C22.1 in Canada, as well as any local codes.
- See **Pages 9 through 15** for additional information on venting requirements.
- **WARNING: DO NOT INSTALL IN SLEEPING ROOM.**
- **CAUTION: THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME FLOOR, WALLS, CEILING/ROOF MUST BE MAINTAINED.**

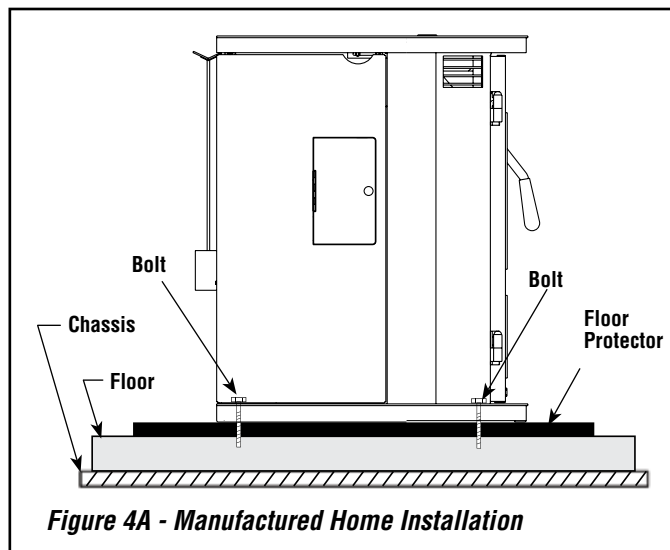


Figure 4A - Manufactured Home Installation

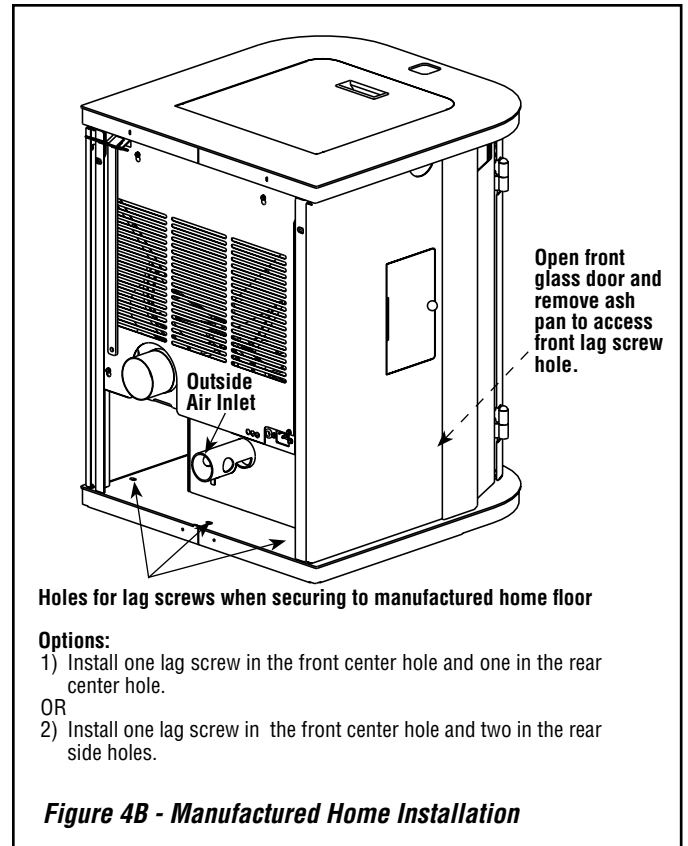


Figure 4B - Manufactured Home Installation

Manufactured Home Exhaust Vent Pipe Installation Guidelines

Use only "PL" pellet vent pipe listed to UL 641 and ULC S609. The pipe should extend at least 3 feet above the part of the roof through which it passes. The top of the pipe should be at least 2 feet above the highest required elevation of any part of the manufactured home within 10 feet of the pipe (see **Page 12, Manufactured Home Chimney Height Requirements**).

If the exhaust vent exits the manufactured home at a location other than the roof, and exits at a point 7 feet or less above the ground level on which the manufactured home is positioned, a guard or method of enclosing the pipe shall be provided at the point of exit for a height of up to 7 feet. The openings, if any, in this guard shall not allow a 3/4" rod to pass through. A 1/2" rod could pass through but should not be able to touch the pipe when inserted through the opening a distance of 4 inches.

INSTALLATION

Removing Appliance From Pallet

1. After removing the packaging from the stove, lift the hopper lid, and remove all prepackaged items that were shipped in the hopper. Next, open the stove door and remove all prepackaged items.
2. With the stove door open, remove the ash drawer and set aside. Using a 7/16" socket or open end wrench, remove the front lag screw (see **Figure 5A**).
3. Using a 5/32" allen wrench remove the two screws in the rear pallet bracket (see **Figure 5B**). Using a 7/16" socket or open end wrench, remove the rear lag screw (see **Figure 5B**).

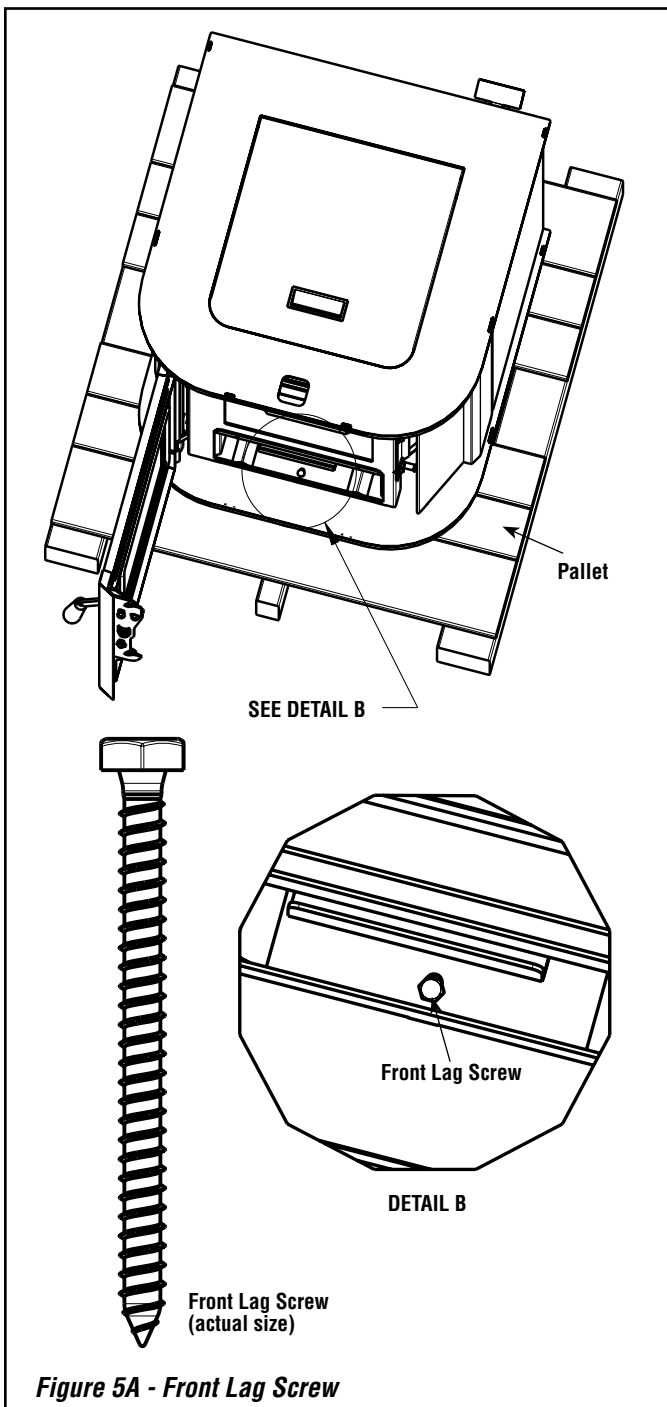


Figure 5A - Front Lag Screw

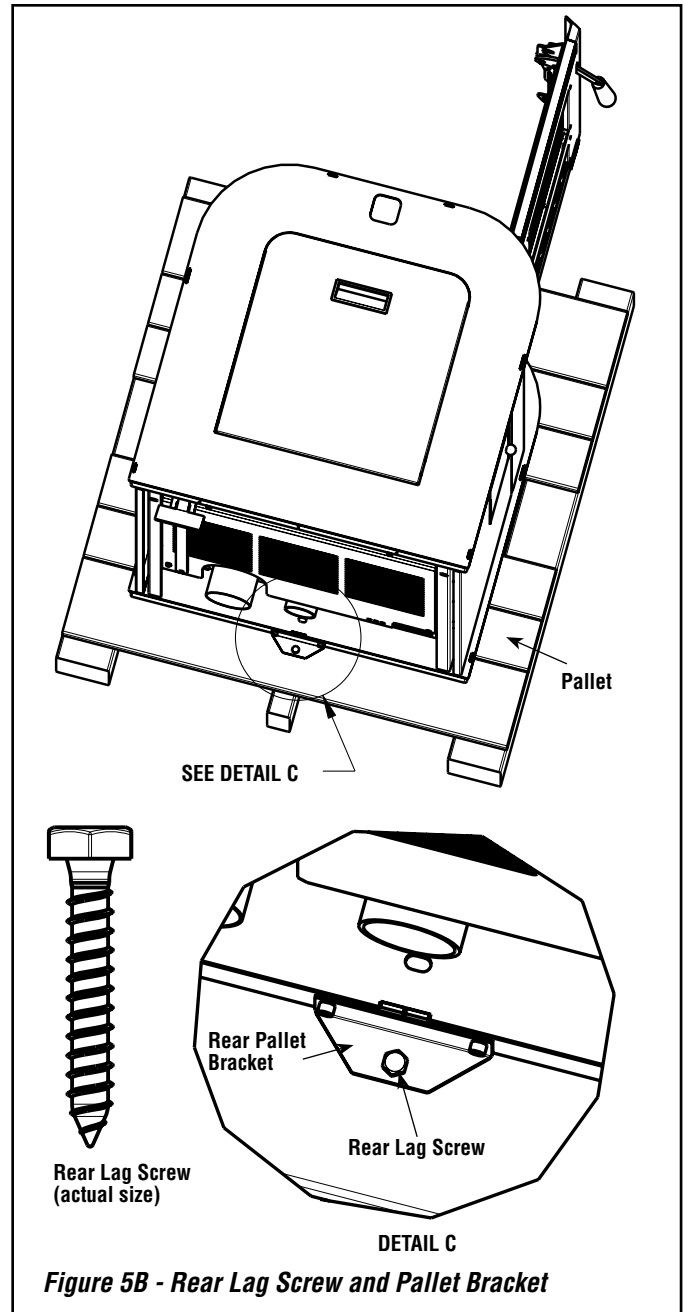


Figure 5B - Rear Lag Screw and Pallet Bracket

Installation Check List

It is strongly recommended that you have an Lennox Hearth Products dealer install your stove. If you install your stove yourself, you should review your installation plan with an Lennox Hearth Products dealer.

Check list:

Check off each item as you proceed with the installation process.

- ☐ Read the ENTIRE stove installation section first
- ☐ Determine the appropriate measurements and locations for your installation.
- ☐ Follow the installation directions in this manual.
- ☐ Be sure to prefit all items before you install, fasten, or set up the appliance permanently.

Prior to lighting your appliance:

- ☐ Review the safety precautions section.
- ☐ Review the pellet *FUEL* section.
- ☐ Review and follow the Operating Instructions.
- ☐ Plug power cord connector into corresponding connector on the back of appliance (see **Figures 7 and 8** showing connector locations).

After you have begun operation of your appliance:

- ☐ Review the routine cleaning / maintenance information.
- ☐ Enjoy the warmth from your new Lennox Hearth Products pellet stove!

Damper Location, Installation And Adjustment

Damper Air Control

Located behind the right side panel on model Montage 32FS.

Adjustment Procedure

Using a 1/4" nut driver or socket, loosen the damper setscrew (see **Figure 6**). Adjust in 1/4" increments until optimum combustion air flow is achieved. Retighten the damper setscrew.

For less air push in and for more air pull out.

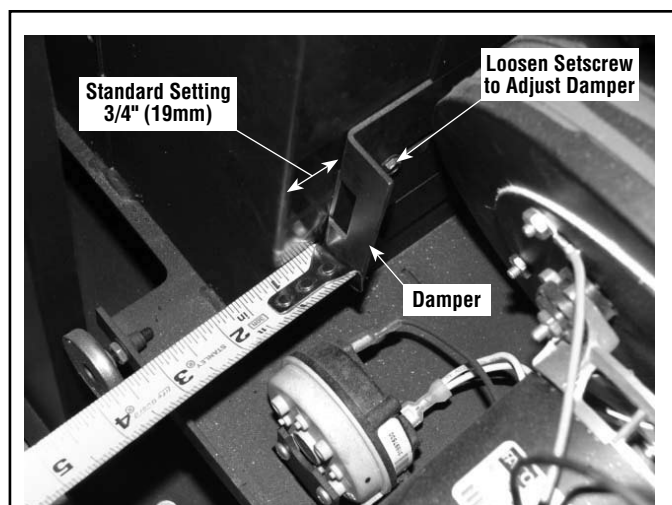


Figure 6 - Damper Adjustment

IMPORTANT NOTE: Install the thermostat per the manufacturers instructions, provided with the thermostat. Failure to follow manufacturers instructions could result in a malfunction. Pay special attention to the thermostat location requirements. If the location requirements are not adhered to the appliance, erratic operation or failure may occur.

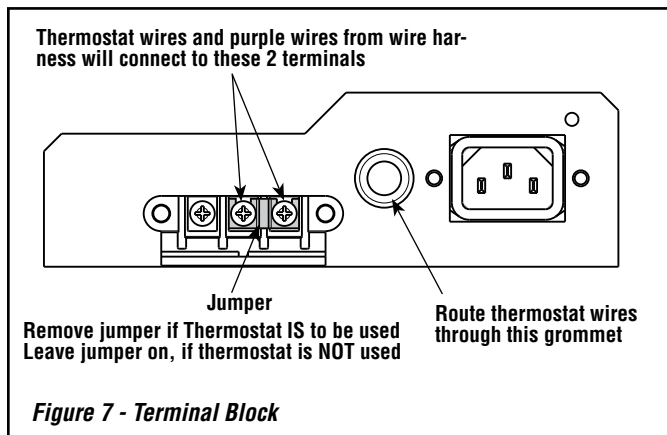
Do not mount the thermostat where it may be affected by:

- Radiant heat from the stove, fireplaces, sun or other heat sources.
- Drafts or dead spots behind doors or in corners.
- Hot or cold air from ducts.

Thermostat Installation:

Note: Always Disconnect Power Before Performing The Thermostat Installation.

A 24 volt wall thermostat and 20 feet of 18-gage thermostat wire is included in the accessory package. It is recommended that the thermostat and thermostat wire be installed by an Lennox Hearth Products dealer.



Installation Steps:

1. Unplug stove power cord from the wall outlet.
2. Locate the thermostat terminal block (see **Figures 7 and 8**).
3. Loosen the two terminal screws on the terminal block and remove the jumper.
4. Connect the two wires from your thermostat to the terminals (one per terminal). Ensure that the purple wires from the harness remain connected to the terminal block and tighten the terminal screws. Make sure the wires are firmly connected to the thermostat.
5. Plug in the stove and you are ready to operate with your thermostat!

Note: See Wiring Diagram on Page 27.

! IMPORTANT

If the wall thermostat provided is not used, the jumper is required for the stove to operate.

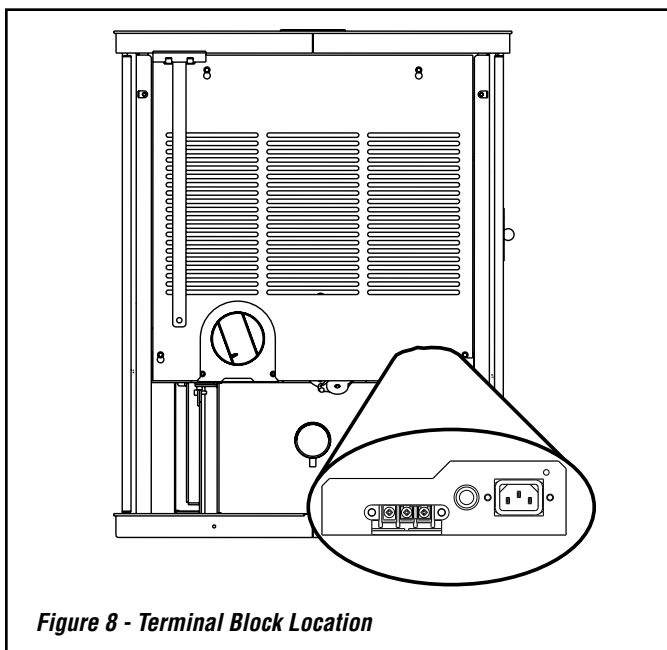


Figure 8 - Terminal Block Location

VENTING REQUIREMENTS

It is recommended that only an Lennox Hearth Products dealer install your pellet stove. The specified installation requirements must be followed to ensure conformity with both the safety listing of the appliance and local building codes. All clearances, installation instructions and precautions specified by the vent manufacturer must be followed.

Selecting a Location

Review the appliance clearance requirements before installing the venting system (see **Page 5**). Position the appliance far enough away from walls to allow adequate room for servicing. Choose the appliance location with the least amount of interference with the house framing, plumbing, wiring, etc.

Preferred Vent Configuration

For the best performance, we recommend a vent run design which runs vertically and terminates above the roof line. This design will allow natural draft to improve the flow of flue gases and will aid in combustion and stove performance.

Note: 30 feet maximum vertical vent allowed (6 inches minimum vertical).

Type of Pipe

This stove requires type "PL" vent pipe (pellet vent pipe, sometimes referred to as "L-Vent pellet vent"), listed to UL 641 or ULC S609. Connect the pellet vent pipe or the "tee" to the flue collar using a minimum of three screws and seal as specified in "Pipe/Liner Joint Requirements" on this **Page**. **Do not use class B gas chimney or single wall chimney as a substitute.**

Size of Pipe

These pellet stoves are approved for use with the following vent sizes: 3" (75 mm) standard, or 4" (100 mm), see **Page 13** - for determining correct size vent). When 4" pipe is used: for horizontal vent installations use a 3" (75 mm) to 4" (100 mm) adapter - available from vent manufacturer. For vertical installations use a 3" (75 mm) to 4" (100 mm) "tee" - available from vent manufacturer.

Offsets

In every installation, a single or double clean-out "tee" is recommended for every ninety-degree offset (this tee will help collect ash residue and will allow for routine cleaning without the need to disconnect sections of pipe).

Pipe Clearances/Requirements

See pipe manufacturers instructions for installation of venting components and clearances. Follow pipe manufacturers installation precautions for passing pipe through a combustible wall or ceiling (i.e. use an approved thimble).

Notes

- Offsets and horizontal runs accumulate fly-ash and soot which reduces the exhaust flow and performance of the stove.
- Total Offsets in venting system should not exceed 270° total in direction change.
- Maximum Vertical Vent - 30 feet (9.14 M)
- Horizontal Runs - The maximum total horizontal run must not exceed 10 feet (3.1 meters).
- Horizontal run of pipe requires 1/4" (7 mm) rise per foot.
- Pellet vent pipe requires 3" (75 mm) clearance from outside of pipe unless otherwise specified by vent manufacturer - all diameters: 3" (75 mm) and 4" (100 mm). A support bracket must be installed every 4 feet (1.2 m) of pellet vent pipe on the exterior wall of the house unless otherwise specified by vent manufacturer.
- It is not recommended to terminate exhaust vent on the prevailing wind side of the house.
- It is not recommended using a termination cap with a screen (fly-ash can collect in a screen resulting in blockage).

Pipe/Liner Joint Requirements

Silicone sealant and 3 screws are required to secure the first vent connection to the appliance flue collar. Seal the remaining vent sections per the vent manufacturers instructions and secure all sections with 3 screws minimum per section. ALL horizontal joints must be sealed gas-tight (air tight, sealed connection). Use RTV high temperature silicone or Interam, if necessary, to provide a complete seal between vent sections.

Connection to Masonry Chimney through a Wall

Be sure to verify the construction of a masonry chimney, as it may have combustible framing.

Approved liner when relining Masonry or Factory-Built Fireplaces is 2100HT (degree F.) liner listed to UL 1777 or ULC S635.

Connection to an Existing Class A Chimney

A chimney adapter can be used to make the connection from 3" (75 mm) or 4" (100 mm) pellet vent pipe (listed to UL 641 or ULC S609) to existing UL chimney system. Verify with the pipe manufacturer that your pipe brands will interconnect.

Horizontal Vent Installations

On all horizontal vent installations (short, horizontal runs with no vertical pipe); care should be taken when choosing a location for terminating the vent. It is not recommended to directly vent the exhaust on the prevailing wind side of the house. It is recommended that when an appliance is vented directly through a wall, a minimum of 8 feet (2.5 m) of vertical pipe should be installed to create some natural draft. This will reduce the possibility of smoke or odor entering the dwelling during appliance shutdown or loss of power.

Vent Termination

Do not terminate vent in an enclosed or semi-enclosed area such as: carports, garage, attic, crawl space, under a deck, porch, narrow walkway, closely fenced area, or any location that can build up a concentration of fumes such as a stairwell, covered breezeway etc.

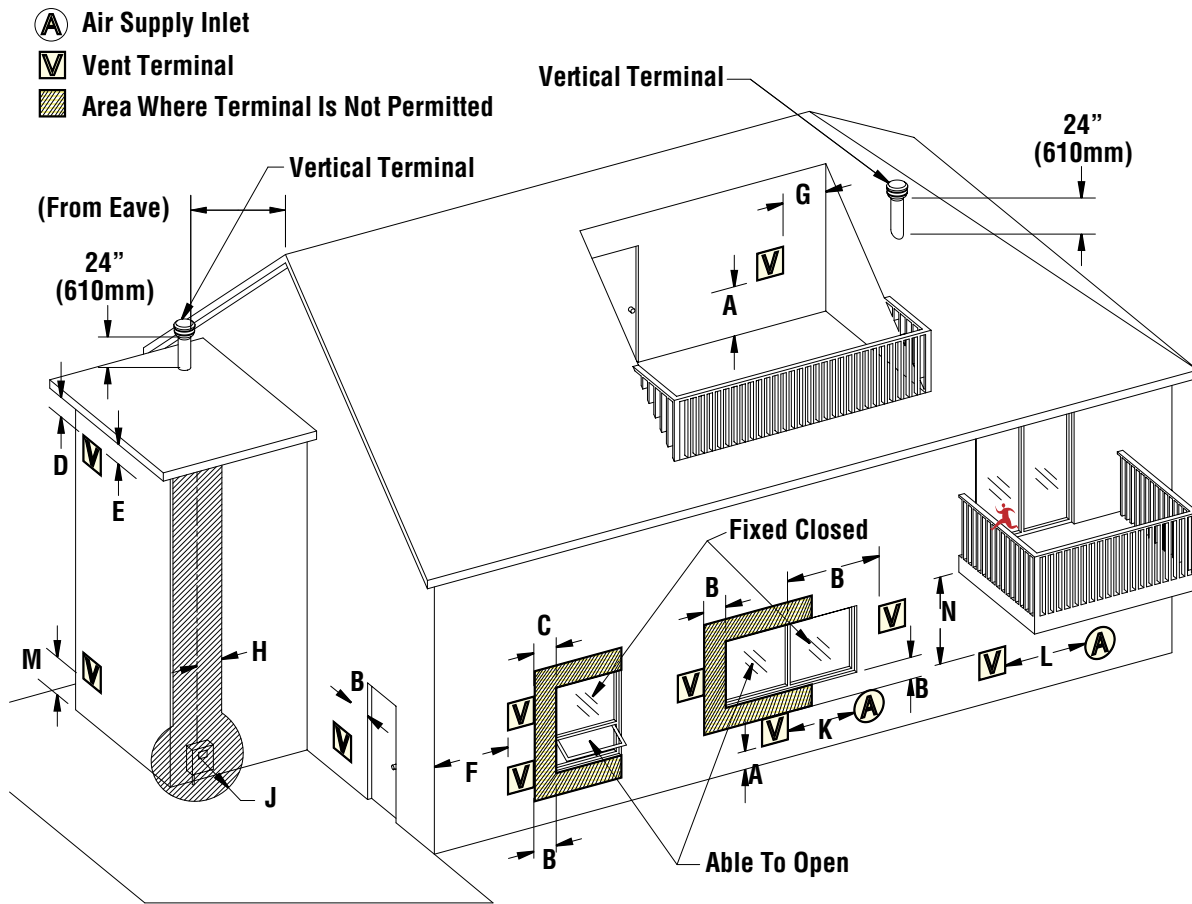
Vent surfaces can get hot enough to cause burns if touched. Adults should supervise children when they are in the area of a hot stove. Non-combustible shielding or guards may be required.

Termination Cap

The termination of the outside chimney of the pellet stove shall be located in accordance with the following:

- A. Higher than 3 feet (.92 m) above any forced air inlet (air conditioner, etc.) located within 10 feet (3 m).
- B. Not less than 4 feet (1.2 m) below, 4 feet (1.2 m) horizontally from or 1 foot (3.1 m) above any gravity air inlet (door, window, etc.) which flue gases could reenter the dwelling.
- C. Not less than 2 feet (.6 m) from combustible materials such as an adjacent buildings, fences, protruding parts of the structure, roof overhang, plants and shrubs, etc. and not less than 7 feet (2.1 m) above grade when located adjacent to the public sidewalks (access). The final termination of the exhaust system must be configured so that flue gases do not jeopardize the safety of people passing by, overheat combustible portions of nearby structures or enter the dwelling.
- D. Not less than 3 feet (.92 m) below an eave (maximum overhang of 3 feet (.92 m) or any construction that projects more than 2" (51 mm) from the plane of the wall.
- E. The distance from the bottom of termination to grade is 12" (305 mm) minimum. This is conditional upon plants and nature of grade surface: Be careful to choose a location for the vent termination which does not expose people or shrubs to high heat from the exhaust gases. The exhaust gases are not hot enough to ignite grass, plants and shrubs located in the vicinity of the termination although they should be a minimum of 3 feet (.92 m) away. The grade surface under the termination must not be a lawn.
- F. Since sparks may escape from the exhaust pipe of any stove, use caution when positioning the vent pipe. Refer to pipe manufacturer's instructions when installing and terminating the exhaust. The vent pipe should be horizontal and never run the pipe in a downward direction (recommend a 1/4" [7 mm] rise per foot horizontal).

Vent Termination Locations



- A = Clearance above grade, veranda, porch, deck, or balcony (min. 12"/30cm)
- B = Clearance to window or door that may be opened (min. 12"/30cm above - 48"/1.2m below and to the side)
- C = Clearance to permanently closed window *(min. 12"/30cm)
- D = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of *(min. 24"/60cm) from the centerline of the terminal (min. 22"/55cm) check with local code.
- E = Clearance to unventilated soffit *(min. 12"/30cm)
- F = Clearance to outside corner *(min. 12"/30cm)
- G = Clearance to inside corner *(min. 12"/30cm)
- H = Not to be installed above a meter/regulator assembly within *(min. 36"/90cm) horizontally from the centerline of the regulator.
- J = Clearance to service regulator vent outlet *(min. 72"/1.8m)
- K = Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance *(min. 48"/1.2m)

- L = Clearance to a mechanical air supply inlet *(min. 120"/3.1m)
- M = **Clearance above paved sidewalk or a paved driveway located on public property *(min. 84"/2.1m)
- N = ***Clearance under veranda, porch, deck, or balcony (min. 12"/30cm)

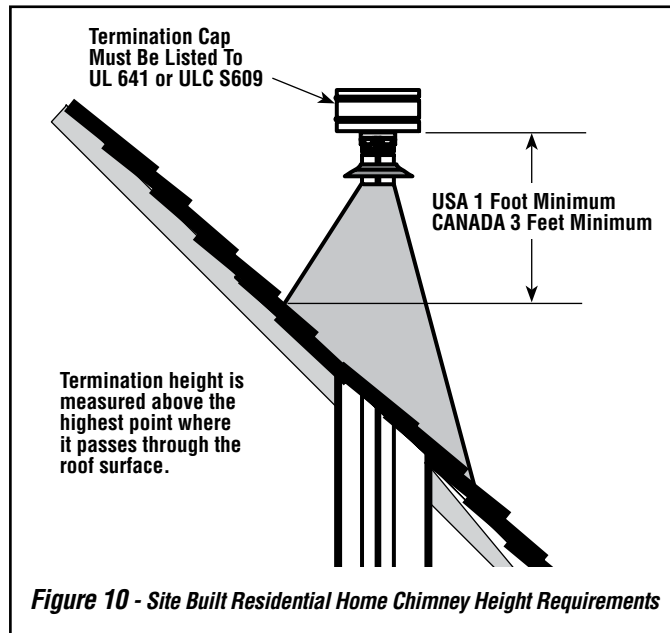
Note:

- * Local codes or regulations may require different clearances.
- ** A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.
- *** Only permitted if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

Figure 9

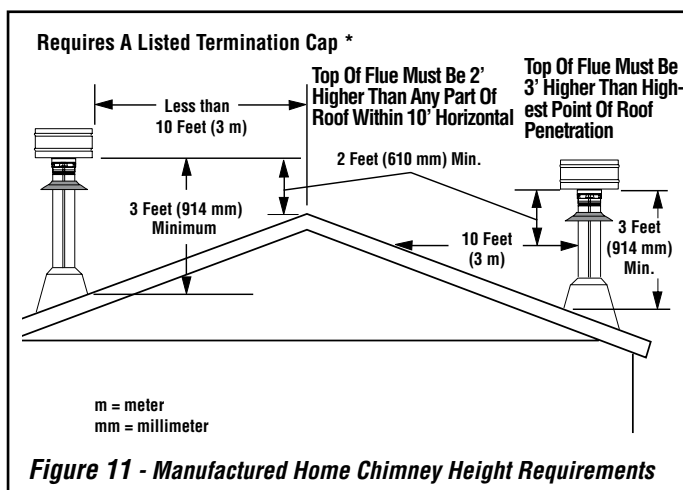
Chimney Height Requirements - Site Built Residential Home

The vent termination height required is - USA, 1-foot minimum; Canada 3-feet minimum above the roof penetration point as illustrated below (Ref. USA - National Standard, NFPA 211 and Canada National Standard CSA B365-01. Check with your local building official for additional requirements for your area.



Chimney Height Requirements - Manufactured Homes

The chimney must extend 3' (.92m) above the level of roof penetration and a minimum of 2' (.61m) higher than any roof surface within 10' (3m) (see below). Check with your local building officials for additional requirements for your area.



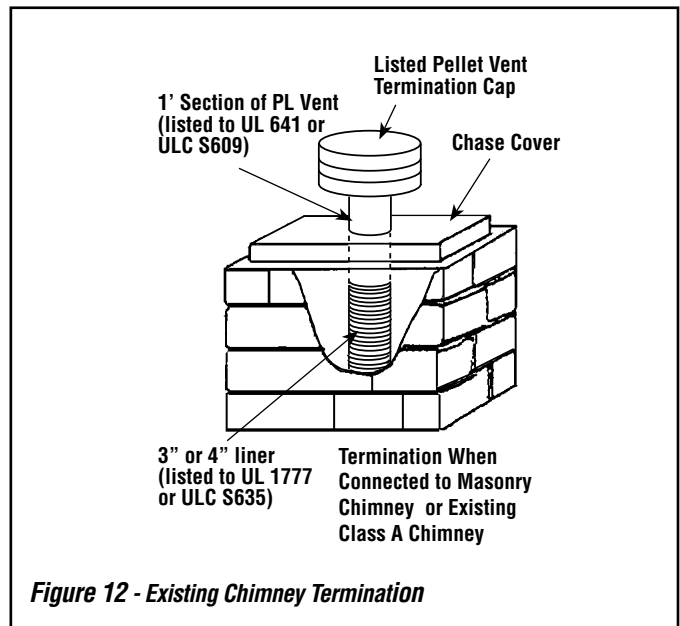
To pass inspection in nearly any jurisdiction, the chimney must meet both safety and exhaust flow requirements. The (3' by) 2' by 10' rule applies to both masonry and factory-built chimneys

*** Ref. NFPA 211, Vents installed with a listed cap shall terminate in accordance with the terms of the cap's listings.**

Termination When Connected to Masonry Chimney or Existing Class A Chimney

A flexible corrugated chimney liner has much greater resistance to the flow of flue gases than does a rigid liner. For this reason we recommend that a larger, 4" liner be used on vertical runs exceeding 15 feet or that rigid venting be used. See **Figure 12**.

If a flexible corrugated chimney liner is used, it must be fully extended to eliminate any sagging and to improve the exhaust flow.



Determining Size Of Pipe To Install

To determine what diameter pipe to use in an installation (3" or 4"), first find the "equivalent pipe length" using the following guidelines, then plot this number and the altitude on the chart (**Figure 13**).

Fill out the installation chart, and calculate your total equivalent pipe length. After you have the total equivalent pipe length, use the Pipe Selection Chart below to determine if your installation requires 3" or 4" exhaust pipe.

Installation Chart

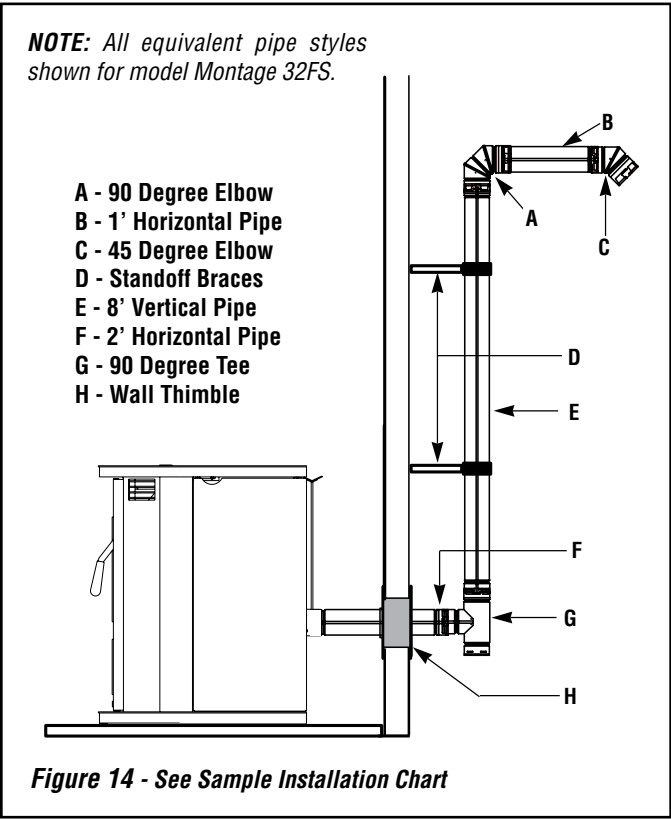
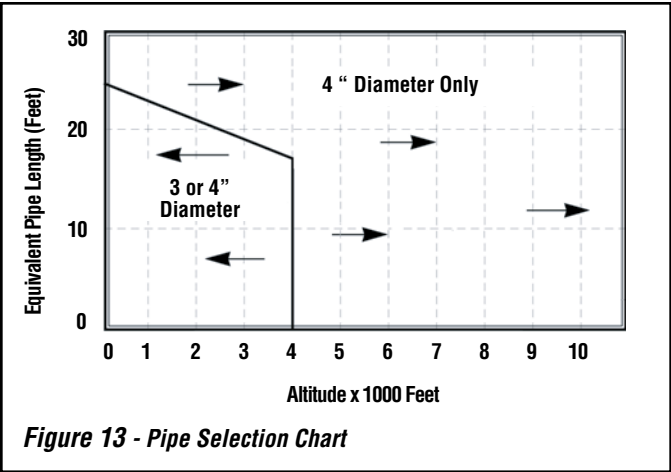
Type of Pipe	# of Elbows or Feet of pipe		Equivalent Feet	Total Equivalent Feet
90° Elbows/ Tee (A & G)		x	5 Feet (1.5 m)	
45° Elbows (C)		x	3 Feet (1 m)	
Horizontal (B & F)		x	1 Feet (.3 m)	
Vertical (E)		x	.5 Feet (.15 m)	

Table 3

Sample Installation Chart

Type of Pipe	# of Elbows or Feet of pipe		Equivalent Feet	Total Equivalent Feet
90° Elbows/ Tee (A & G)	2	x	5 Feet (1.5 m)	10 (3 m)
45° Elbows (C)	1	x	3 Feet (1 m)	3 (1 m)
Horizontal (B & F)	3	x	1 Feet (.3 m)	3 (1 m)
Vertical (E)	8	x	.5 Feet (.15 m)	4 (1.2 m)

Table 4 - Sample Chart for Figure 14



Standard Horizontal Vent Installation

Installing Montage™ 32FS

All PL Venting Components must be listed to UL 641 or ULC S609

1. Locate the proper position for the listed type “PL” wall thimble. Avoid cutting wall studs when installing your pipe. Use a saber saw or keyhole saw to cut the proper diameter hole through the wall to accommodate the wall thimble. Use extreme caution to avoid cutting into power lines within the wall of the home. The hole size will depend on the brand of pellet vent that you are using. Install the wall thimble in the hole.
2. **ALL INTERLOCKING PIPE CONNECTIONS MUST BE SEALED GAS-TIGHT AND SECURED TOGETHER PER VENT MANUFACTURERS INSTRUCTIONS.**

Position the stove approximately 12” (305 mm) from the wall on the floor pad. Push the “PL” pipe through the wall thimble. Squeeze a bead of high temperature silicone (RTV) sealer around the end of the machined portion of the 3” (76 mm) pipe connector on the back of the stove. Firmly push on a section of “PL” pipe until inner pipe liner pushes into the bead of RTV sealer.

3. Push the stove with pipe attached towards the wall (the pipe will go through the wall thimble). Do not position the back of the stove closer than 2” (51 mm) from the wall (see *Clearances*, **Page 5**).
4. Install listed type “PL” 45 degree elbow with rodent screen or cap on outside end of pipe. The rodent screen should be no less than 1/2” (13 mm) mesh and may clog with soot and ash if left unattended during the burn season.
5. If the installation includes a source of outside combustion air; cut a separate hole through the wall for the fresh air tube. This tube should be 1-5/8” (42 mm) minimum diameter, steel only. Connect outside air pipe to air inlet on stove. This tube must be terminated with a 45 degree elbow or hood.

Notes:

- Combustion air may also be drawn from a vented crawl space under the home.
- All joints for connector pipe are required to be fastened together per the vent manufacturers instructions. If vented horizontally, joints must be made gas-tight (air tight, sealed connection) in a manner as specified on this page (see instruction #2). **INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER.**
- Greater back clearance will improve the ease of serviceability of the stove.
- The end of the exhaust pipe must extend a minimum of 12” (305 mm) from the outside of the building.

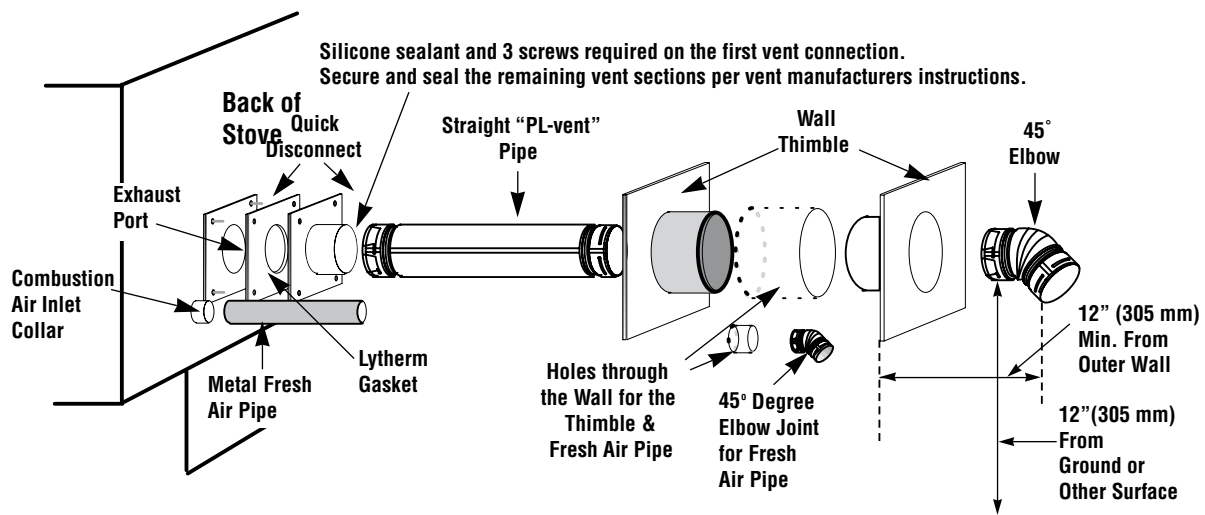
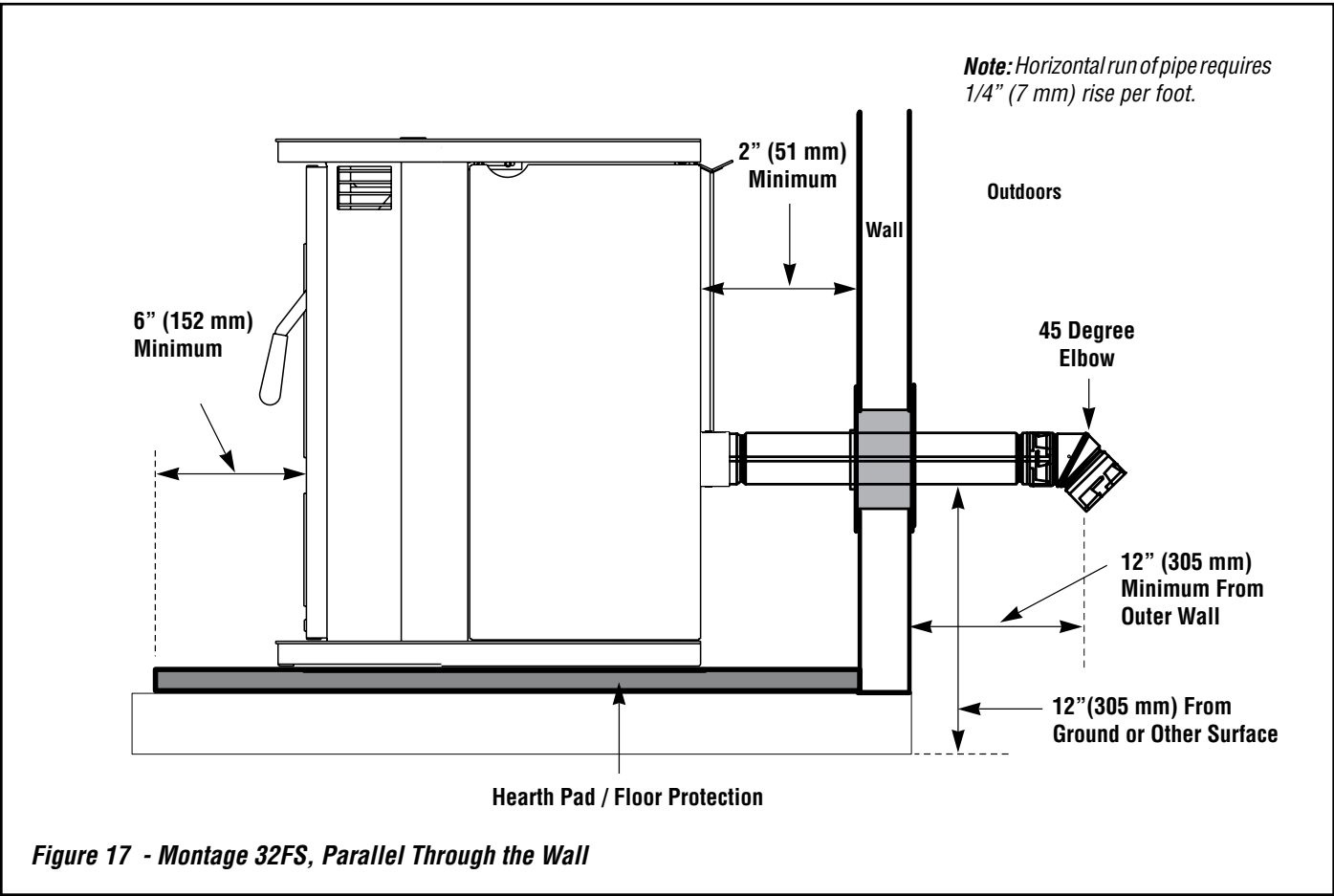
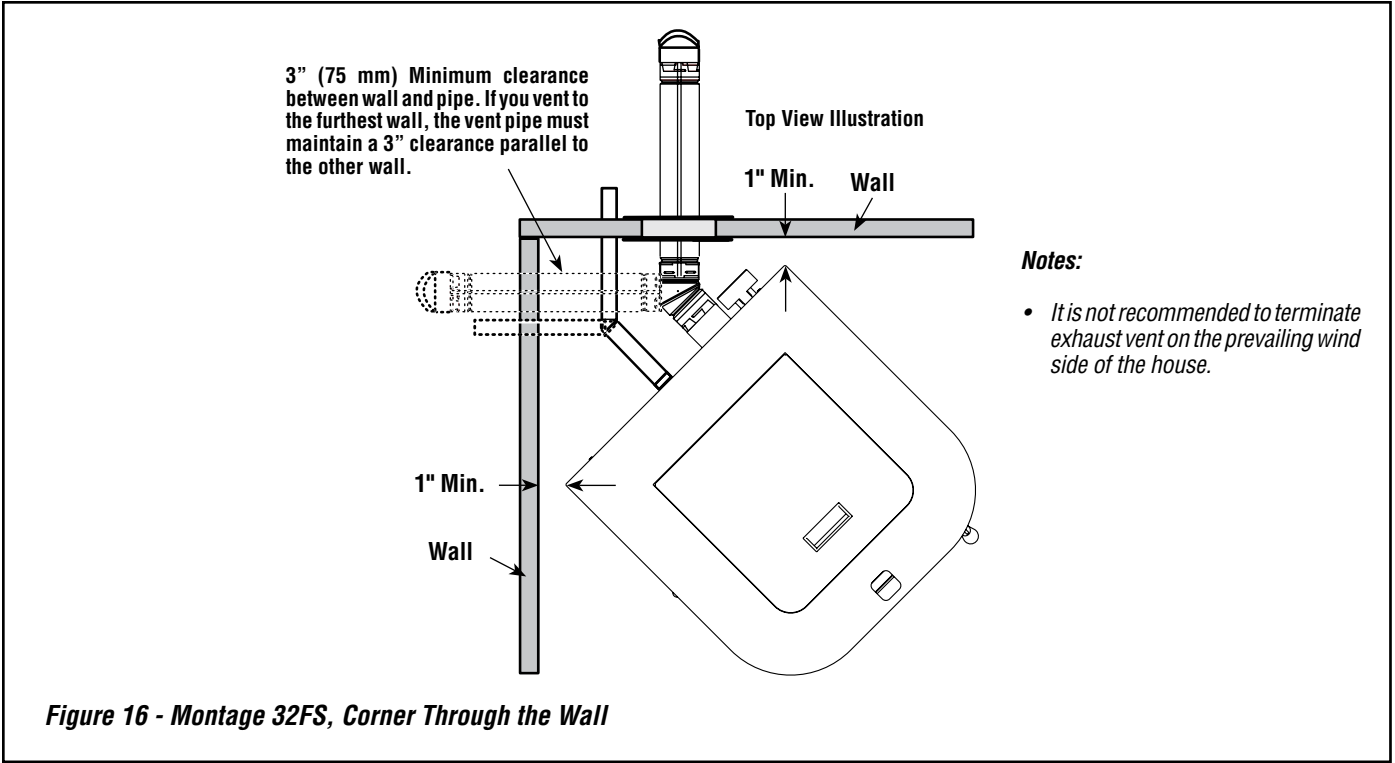


Figure 15 - Horizontal Vent Installation

Standard Horizontal Installation Configurations
Montage™ 32FS

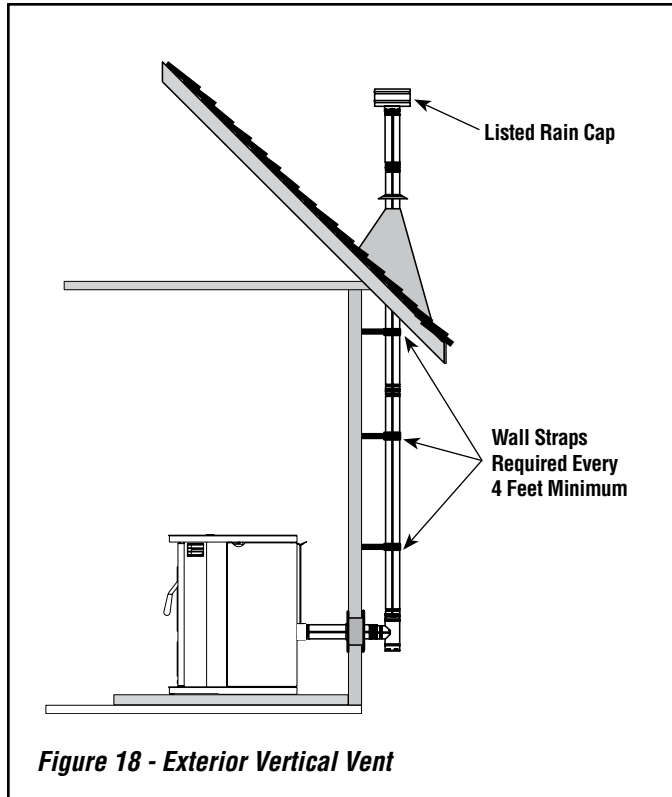


NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE

Standard Vertical Installation Configurations

Model: Montage™ 32FS

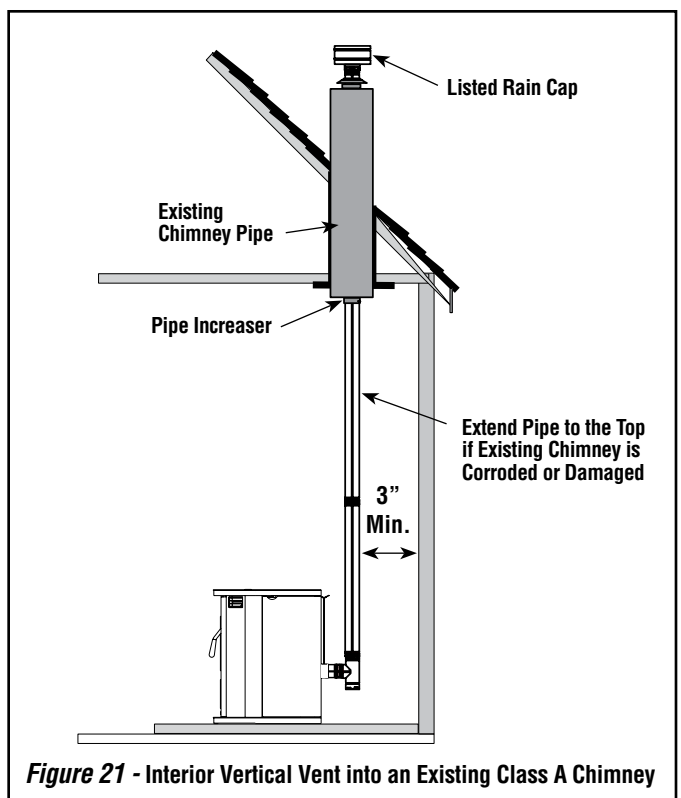
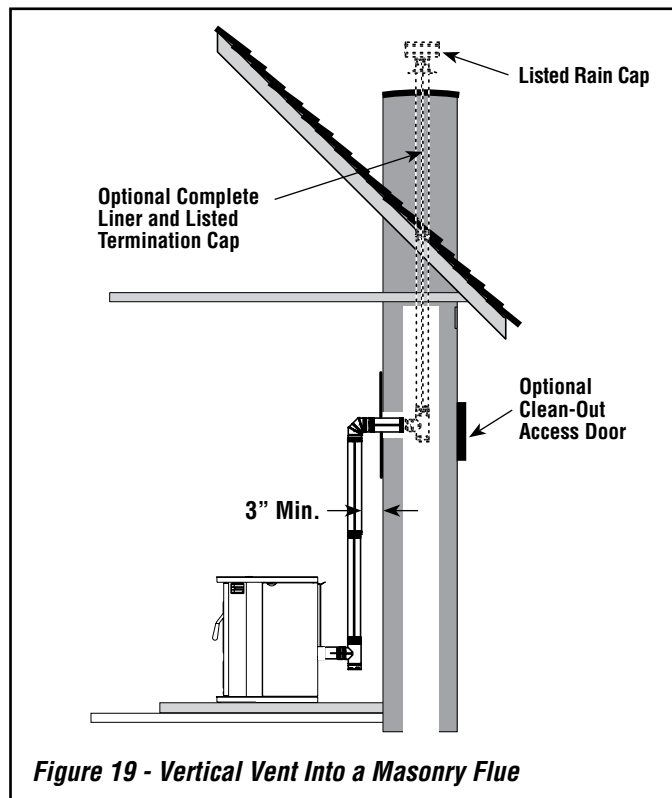
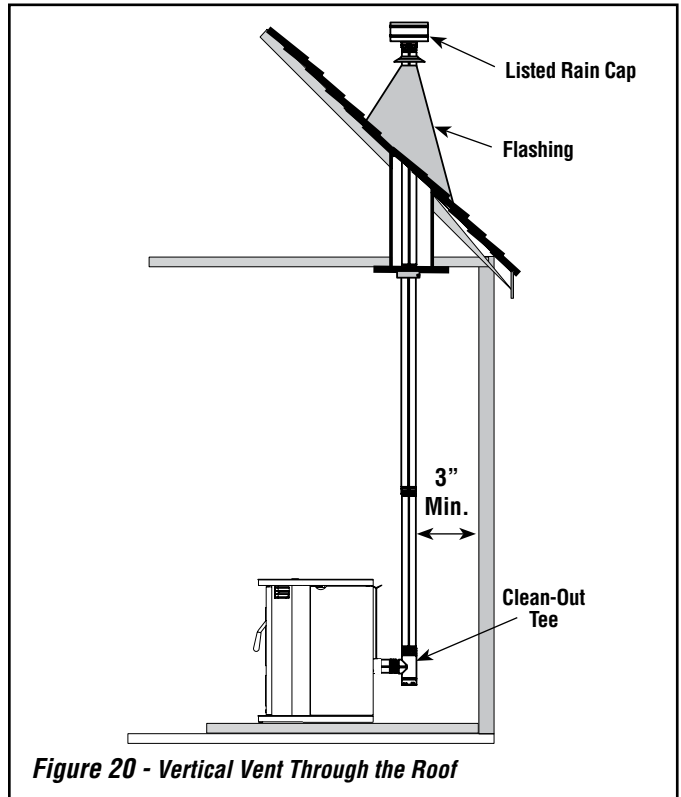
This free-standing model may be connected to an existing flue or by installing listed type "PL" vent pipe. If a liner is run all the way to the top of the existing chimney, the existing flue should be sealed with a steel plate. Start a vertical run with a Tee at the back of the stove. Other options are illustrated below.



Preferred Installation – Vertical Vent Through the Roof

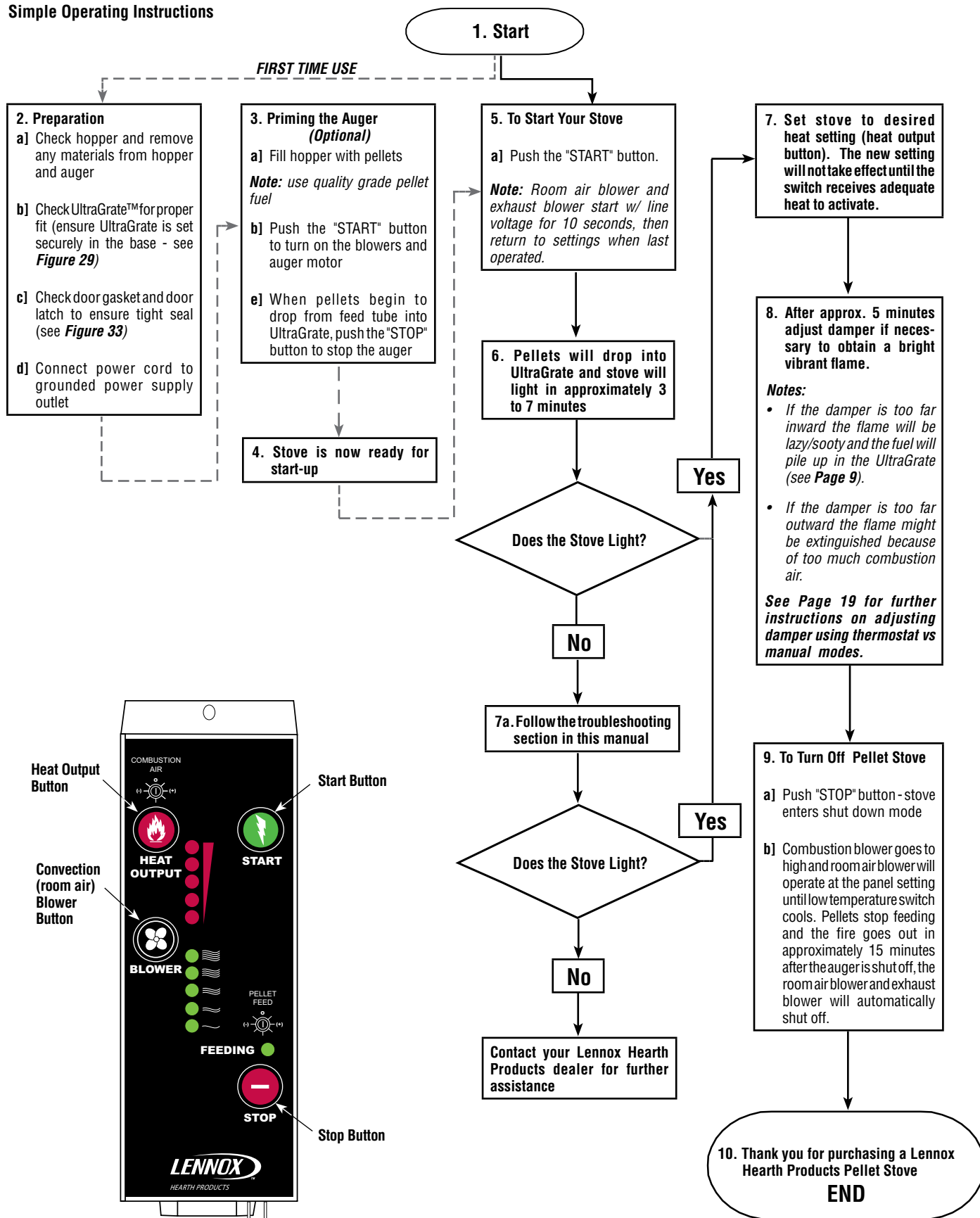
This venting configuration allows for the best stove performance. The vertical pipe promotes natural draft and with the chimney inside the dwelling, the flue gases stay warm, thus rising at a consistent rate.

Note: See **Pages 10 and 11** for Vent Termination Requirements



CARE AND OPERATION

Simple Operating Instructions



Control Board Operation

START BUTTON

The "START" Button turns on the pellet stove.

If the exhaust does not reach operating temperature within 30 minutes, the stove will automatically shut down. The pellet stove can be restarted by pushing the "START" Button again.

RESTART

AUGER ON (green LED) - The auger restarts and returns to delivering fuel to the UltraGrate™.

STOP BUTTON

Note: The "START" Button has to be activated to give power to the AUGER ON/OFF button.

The "STOP" button turns the pellet stove OFF. When the LED is green, the auger is ON.

SHUT DOWN (LED off) - Auger turns OFF and fuel delivery stops. The blowers will continue to operate until the stove has cooled sufficiently. Stove enters shut down mode.

HEAT OUTPUT BUTTON

When not using a wall thermostat, the "HEAT OUTPUT" button provides the ability to burn at five separate settings from low (#1) to high (#5). The "HEAT OUTPUT" button regulates the fuel feed setting and the combustion air supply simultaneously.

Each time the "HEAT OUTPUT" button is pressed the heat output will advance to a higher setting. When at the highest setting (#5), if the button is pressed again it will go back to the lowest setting. Settings can be changed at any time but will only take affect after the start-up cycle is complete.

CONVECTION (ROOM AIR) BLOWER BUTTON

The "BLOWER" button operates the convection blower. This will change the flow of hot air into the room. Five settings are available from low (#1) to high (#5). When the "BLOWER" button is pressed, the green indicator light will scroll from low to high. When at the highest setting (#5), if the button is pressed again it will go back to the lowest setting.

When the "HEAT OUTPUT" button is on position #5, the lowest blower setting is #3. When the heat output button is on position #4, the lowest blower setting #2. This is a safety precaution to protect against overheating. Blower settings can be changed at any time, but will only take affect after the start-up cycle is complete.

Note: The control board has an internal memory which recalls the last setting prior to loss of power.

Note: If the fuel feed trim or combustion air trim needs to be adjusted, contact your dealer or qualified technician to calibrate internal software. The trim controls should only be adjusted for the proper flame if all other options did not achieve proper adjustment. It is recommended that the damper be used to fine-tune your stove to your particular fuel and installation configuration (see Damper Adjustment on **Page 9** and Damper Adjustment Guidelines on **Page 20**).

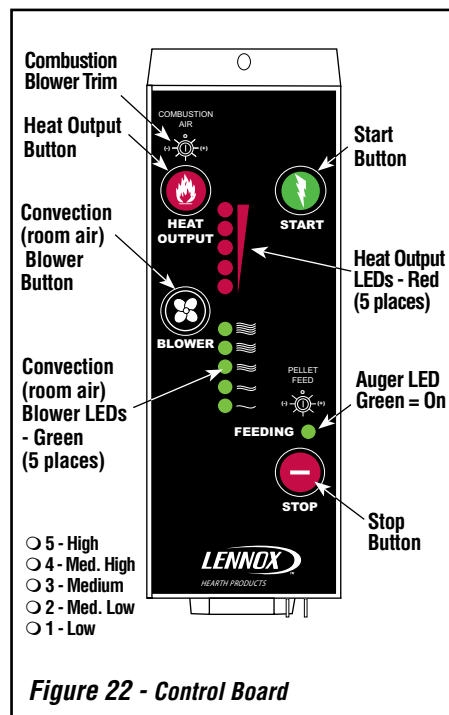


Figure 22 - Control Board

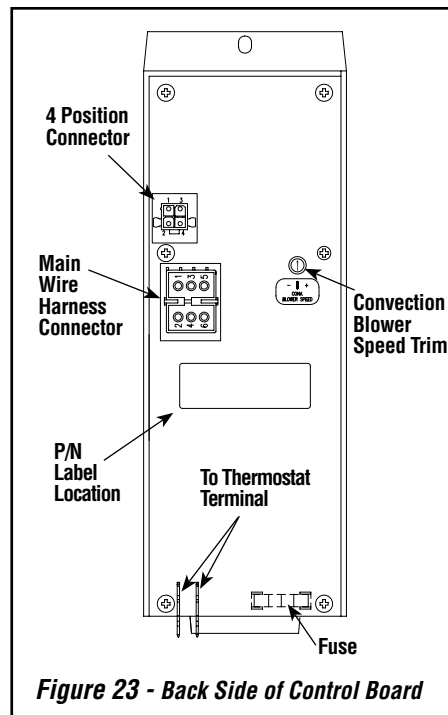


Figure 23 - Back Side of Control Board

Fuel Delivery Rate

The "HEAT OUTPUT" button manages the fuel delivery rate by controlling the amount of time the auger motor will run as follows:

Heat Output Setting	Auger Motor OFF/ON Time (seconds)	* Lb.'s Per Hour Fuel Delivery	♦ Approximate BTU Per Hour Fuel Delivery	Burn Time (hours)
(#5) High =	1.6 / 0.6	3.8 Lb.'s /hr.	32,000 BTU/hr	15
(#4) Med.High =	1.8 / 0.6	3.0 Lb.'s /hr.	25,000 BTU/hr	18
(#3) Med.=	1.9 / 0.6	2.5 Lb.'s /hr.	21,000 BTU/hr	22
(#2) Med.Low =	2.9 / 0.6	2.0 Lb.'s /hr.	17,000 BTU/hr	31
(#1) Low =	3.8 / 0.6	1.5 Lb.'s /hr.	13,000 BTU/hr	37

Table 5 - Model Montage™ 32FS

Note: Maximum hopper capacity is 55 lb.'s

* Feed rates are approximations only. Actual feed rate will vary depending on size, quality and length of fuel used and variations in line voltage.

♦ Estimated heat input based on fuel value of 8400 BTU per lb. of fuel.

⚠ WARNINGS

Never empty pellets from the Burn-Pot into the hopper. Pellets that may appear to be cool may retain enough heat to ignite other pellets resulting in smoke or fire damage.

DO NOT OVERFIRE THIS STOVE. This may cause serious damage to your stove and void your warranty. It also may create a fire hazard in your home. **IF ANY EXTERNAL PART OF THE UNIT BEGINS TO GLOW, YOU ARE OVERFIRING.** Immediately press the "STOP" button on the control board.

Pre-lighting Instructions

During an initial start-up, or in the case where the hopper has run out of fuel, it will be necessary to prime the auger feed system.

To prime the auger feed system:

1. Fill the hopper with recommended pellet fuel and plug the stove into the wall outlet.
2. Press the "START" button on the control board to start the fuel feed. Next, press the "HEAT OUTPUT" button to position #5 (maximum feed rate).
3. Look through the combustion chamber door and when you see the first pellets dropping into the UltraGrate™, the auger is then fully primed. It will take 10 to 15 minutes to prime the auger.
4. Once the auger is primed, press the "STOP" button to turn off the auger (LED will go off).

Starting Your Pellet Stove

1. Make sure the auger is primed (see *Pre-Lighting Instructions* on this page), then simply push the "START" button on the control board to activate the Fastfire™ igniter.
2. While the pellets will ignite on any heat output setting, it is recommended that the "HEAT OUTPUT" button be set to position #3. Pellets will start feeding into the UltraGrate and should begin to ignite in approximately seven minutes. The Fastfire igniter will automatically shut off after fifteen minutes (on hot starts igniter will shut off after seven minutes).
3. After the pellets are burning well, press the "HEAT OUTPUT" selector to the desired setting. Combustion air and the pellet fuel feed rate will adjust automatically as the "HEAT OUTPUT" button is pressed. The flame should be bright yellow in color and there should be no evidence of soot formation at the top of the flame. Press the "BLOWER" speed button to increase or decrease the blower speed to the desired level.
4. If operating your stove with the wall thermostat, adjust the "HEAT OUTPUT" button to the desired demand mode (#1 through #5 on the "HEAT OUTPUT" button). Next, adjust the wall mounted thermostat to the desired room temperature and your stove will automatically switch between a demand mode and stand-by mode.

Notes:

Cold Start - When the "START" button is pressed when the appliance is cold, voltage will bypass its normal circuit through the low limit thermal switch (for 25 to 35 minutes to allow adequate time for the low limit thermal switch to heat [140° F min.] which will close the circuit). The combustion and convection blowers will start at maximum speed. After approximately 10 seconds both blowers will default to settings they were at after the last shut down was completed (indicated by LED's #1 to #5). The Fastfire igniter will operate for approximately 15 minutes. The auger will turn continuously for a predetermined duration at the respective Heat Output Settings, followed by the normal operating mode.

General Operating Considerations

Proper Burn Characteristics: Your flame should be bright yellow under normal operations. If your flame becomes reddish/orange, your stove probably needs routine maintenance. Excessive amounts of fly-ash build-up in the UltraGrate, clinkers in the UltraGrate, or leakage of air if the UltraGrate is not properly seated, will starve the fire for air. (See *Routine Maintenance* for information on cleaning the stove). If the problem persists, review the troubleshooting section at the end of this manual.

Manual and Automatic Operation

Your pellet stove can be operated in either the manual or automatic mode. The manual mode is used when operating without a wall thermostat. The automatic mode is used when utilizing a wall thermostat. When utilizing the thermostat capability, the burn time can be extended dramatically depending on thermostat setting. **Note:** It is normal for some ash to build up on the inner glass surface at the lower Heat Output settings.

Manual Operation

Pressing the "START" button will initiate the start-up cycle. The auger LED will be green to indicate the "on" status. The blower speeds and pellet feeds are fixed during this time to provide appropriate ignition. The Fastfire igniter system will light the pellets fed to the UltraGrate, after about 3 minutes. After the start-up cycle, your stove will be in the run mode. At this point the stove will operate with the heat output ("HEAT OUTPUT" button) and blower settings ("BLOWER" button) selected. These settings can be selected either during or after the start-up cycle. Pressing the "STOP" button during the run mode will initiate the shut down cycle (feeding LED will go off). The pellets will stop feeding and the blowers will run at a fixed speed for approximately 10 minutes. At this point your stove is safely shut down. The stove can be restarted by pressing the "START" button during the shut down cycle.

Automatic Operation

Your stove is capable of running in an automatic mode with the use of a wall thermostat.

For the wall thermostat to control the operation of the stove, set it to a temperature that will put it in the demand mode (calling for heat). The thermostat will establish either a demand mode or a stand-by mode. The thermostat should be set for the desired room temperature. If the room temperature drops below the level on the thermostat the stove will automatically begin the start-up cycle, as explained in the *Manual Operation* section.

Once the start-up cycle is completed the stove will operate at whatever heat and blower setting you have selected. For best operation under thermostat control, the medium or high settings are recommended. When the desired room temperature is reached the stove will automatically go into the shut down cycle. The pellet feed will stop and the blowers will continue for a controlled time allowing safe shut down of your stove. All lights will remain on when the thermostat is open. The "HEAT OUTPUT" and "BLOWER" settings can be changed at any time, but only take affect during the run mode. When the temperature in the room drops to the level set at the thermostat, the stove will again begin the start-up cycle and resume automatic operation in the demand mode.

Note: If the "START" button is pressed while the thermostat is in the standby mode the stove will not restart until the thermostat closes (calling for heat).

Turning Off Your Stove

Press the "STOP" button to initiate the shut down cycle (auger LED will be red). The pellets will stop feeding and the blowers will continue to run on a timed cycle. The stove will shut down safely upon completion of the shut down cycle.

Shutdown Mode - When the thermostat opens (not calling for heat), or the auger "STOP" button is pressed (feeding LED will be off), power to auger motor will be discontinued. The blowers will continue at the control board setting until the low limit thermal switch cools enough (below 120° F) to open. For safety, the blowers will continue to run for approximately 10 minutes before the unit shuts down.

Damper Operation

The damper assembly controls the amount of combustion air that is delivered to the firebox. With the damper adjusted all the way in, the airflow will be at its minimum. As the damper is moved outward, more air is delivered (see *Damper Location and Adjustment* on **Page 9**).

It will be necessary to monitor the appearance of the flame during the first 4-8 bags of pellets. If the flame is smoky red or orange with evidence of soot at the top of the flame, the damper will need to be adjusted to deliver more combustion air (see *Damper Location and Adjustment* on **Page 9**). If the flame is "short" at the higher burn rates, or if the pellets are burning up in the UltraGrate™ before new pellets are fed into the fire, the damper may need to be adjusted to deliver less combustion air.

After the damper is adjusted, re-evaluate the appearance of the flame. It may be necessary to continue adjusting the damper in increments until proper combustion is achieved (the flame should become yellow and begin to "dance").

Once the damper has been properly set (and if the routine maintenance is performed as needed), the damper should not require re-adjustment unless you are changing from a premium grade pellet to a standard or high ash pellet, in which case the damper may need to be moved outward to help prevent the accumulation of ash in the UltraGrate.

Damper Adjustment Guideline

Lack of Combustion Air:

By opening the damper, this will increase combustion air delivery. Symptoms of insufficient combustion air include; unburned fuel, lazy smoky or red / orange flame, excessive ash or soot, excessive buildup on glass.

Contributing factors:

- High Altitude – Lack of oxygen
- Restrictive Venting (elbows, horizontal runs, cold external chimneys, etc.)
- Dirty / Poor Quality Fuel
- Lack of Maintenance

Note: Excessive amounts of fly-ash built-up in the UltraGrate™, clinkers in the UltraGrate or leakage of air (if the grate is not properly seated) will starve the fire for air. See Routine Maintenance, on **Pages 21 through 24** for information on cleaning requirements.

Excessive Combustion Air:

Adjusting the damper to a more closed position will reduce the combustion air delivery. Symptoms of excessive air include; fuel burns too quickly (results in smoking or smoldering pellets), white to yellow flame, etc. If the damper is open too far, the burning pellets will lift off the grate and fly up into the air much like popping corn does.

Note: Excessive combustion air reduces efficiency.

Contributing factor:

- Venting system providing excessive draft.

Correct Combustion Air / Proper Burn Characteristics:

When the damper is correctly set, the burning pellets should move (wiggle) around slightly and the flame should be bright yellow.

Automatic Safety Features

Power Outage:

During a power outage, the stove will shut down safely. The stove will automatically restart when power is resumed. The solid state control board has an internal memory that will retain heat output and blower speed settings through voltage interruptions.

A small amount of smoke may leak from the top of the window glass, the hopper and from the combustion air intake, if the stove is vented horizontally with no vertical pipe. This will not persist for more than 3 to 5 minutes and will not be a safety hazard. It may set off your smoke alarm.

Note: If the area in which you live is prone to frequent power outages, it is recommended that a minimum of 8 feet (2-1/2 meters) of vertical vent pipe be included in a free-standing installation to induce a natural draft in the event of a power failure.

Overheating:

High temperature thermal switches will automatically shut down the stove if it overheats. Allow up to 45 minutes cooling time before re-lighting. Keep enough convection air going through stove to keep it cooling properly (adjust convection [room air] blower speed to a higher setting), this will ensure long life of the stove. If the overheating continues, contact your Lennox Hearth Products dealer for more information.

FUEL

Fuel Specifications - Using the Ultragrate™ burn system, this appliance has been designed to burn wood residue pellets only (with up to 3% ash content). Agricultural pellets (i.e. corn, alfalfa etc.) are not permitted to be burned in the stove. Dirty fuel will adversely affect the performance of the stove. The pellet fuel should meet P.F.I. (Pellet Fuel Institute) standards for standard grade or premium grade residential pellet fuel. If the pellet fuel meets these standards, it will be printed on the bag. Any questions regarding pellet fuel can be answered at the Pellet Fuels Institute (PFI), www.pelletheat.org.

Pellet Feed/Pellet Size - The pellet feed system is designed to handle a wide range of pellet sizes up to a maximum of 5/16" diameter. Different pellets may feed at considerably different rates. You may notice a difference in the burn if you change pellet fuel sizes. The longer the pellet, the slower it will feed and vice versa. If the stove will not stay burning at the minimum fuel feed setting, those particular pellets may not be feeding fast enough. If this happens, reduce the amount of combustion air by adjusting the damper. See **Page 9** before adjusting the damper.

Clinkering - Silica (or sand) in the fuel, along with other impurities, can cause clinkering. A clinker is a hard mass of silica formed in the burning process. Clinkering is a function of the fuel, (not the stove), but adversely affects the performance of the stove by blocking off the air passages in the grate. Even P.F.I. approved pellet fuel may tend to clinker. A clinker can be removed from the UltraGrate™ and placed in the ash pan with the use of the grate scraper/ash pan tool furnished with your stove. See *Routine Maintenance* (on **Pages 21 through 24**) for more information on cleaning.

Ash - The frequency of removal of the ash and maintenance performed on the stove is directly proportional to the ash content of the fuel and the operation duration of your pellet stove. Low ash fuel may allow longer intervals between cleaning, however, a stove burning high ash fuel may need to be cleaned as often as everyday.

PLEASE NOTE: Lennox Hearth Products has no control over the manufacturing of pellet fuel and will not be held responsible for poor stove performance or any damage caused by poor quality pellet fuels.

Note: See *Fuel Delivery Rate* on **Page 18** for burn times.



CAUTION

The use of unapproved, dirty, wet and / or high salt content fuel will void the warranty!

Wood pellets manufactured to the pellet fuels institute (P.F.I.) certification standard are available in two grades, Standard and Premium. The primary difference between the two is the ash content of the pellets.

The P.F.I. specification for standard grade & premium grade residential pellet fuel is as follows:

- CHLORIDES (Salt): Less than 300 p.p.m. to avoid stove and vent rusting.
- BULK DENSITY: 40 lb. / Cu. Ft. minimum
- MOISTURE CONTENT: 8% maximum
- ASH CONTENT: < 3% maximum (standard grade) < 1% maximum (premium grade)
- FINES: 0.5% maximum through a 1/8" screen
- BTU CONTENT: There are a number of variations in pellet fuels that are not included in PFI standards. For example, BTU (heat value) content may range from just under 8,000 to almost 9,000 BTU, depending upon species and region of the country and other variables.

FUEL FEED RATES

Different brands of pellets will feed at varying rates due to their size and density (length and diameter). This may require a slight adjustment in the damper adjustment (see **Page 9**) or the fuel feed trim control to compensate (see **Page 18**).

ROUTINE MAINTENANCE

Cleaning



IMPORTANT

Unplug and Ensure Stove is Cold Before Performing Any Maintenance Work.

The following areas need to be inspected and cleaned during routine cleaning:

- Heat Exchange Tubes / Tube Scraper (Homeowner)
- Baffle Plates (Qualified Technician Only)
- Proof of Fire Switch (Qualified Technician Only)
- Window Wash (Homeowner)
- Ash Clean-Out Ports (Qualified Technician Only)
- Paint Touch-up (Qualified Technician Only)
- UltraGrate (Burn Grate) (Homeowner)
- Ash Slide Plate (Homeowner)
- Ash Pan (Homeowner)
- Exhaust Passages / Vent Pipe and Creosote Removal (Qualified Technician Only)
- Gaskets (Qualified Technician Only)
- Cleaning Rear Stove Compartment (Qualified Technician Only)

Heat Exchange Tubes

Tube Scraper - Using the hole in the handle of the Grate Scraper Tool “grab” the scraper rod as shown in **Figure 26**. Using the Grate Scraper Tool, pull the rod up and out towards the opening of the firebox. Continue pulling until the Tube Scraper reaches the top of the firebox. Pull the tube scraper out, then repeat 2–3 times to remove fly-ash from the heat exchange tubes.

It may be easier to clean the tubes if the heat exchanger baffle plate is removed first (located in the firebox below exchange tubes).

Baffle Removal - The baffle plate contains two keyhole slots (see **Figures 24A and 24B**), which allows the two retaining screws to remain in place while removing the baffle plate. To remove baffle, loosen the two screws holding the baffle in place (do not fully remove). Slide the baffle plate to the left until the screw heads clear the open end of the key hole slots. Remove the baffle plate diagonally through door opening. The tube scraper rod can now be pulled in a more horizontal manner, which allows the scraper to move more freely.

Note: The baffle plate should be removed at least once a year to allow for a thorough cleaning.

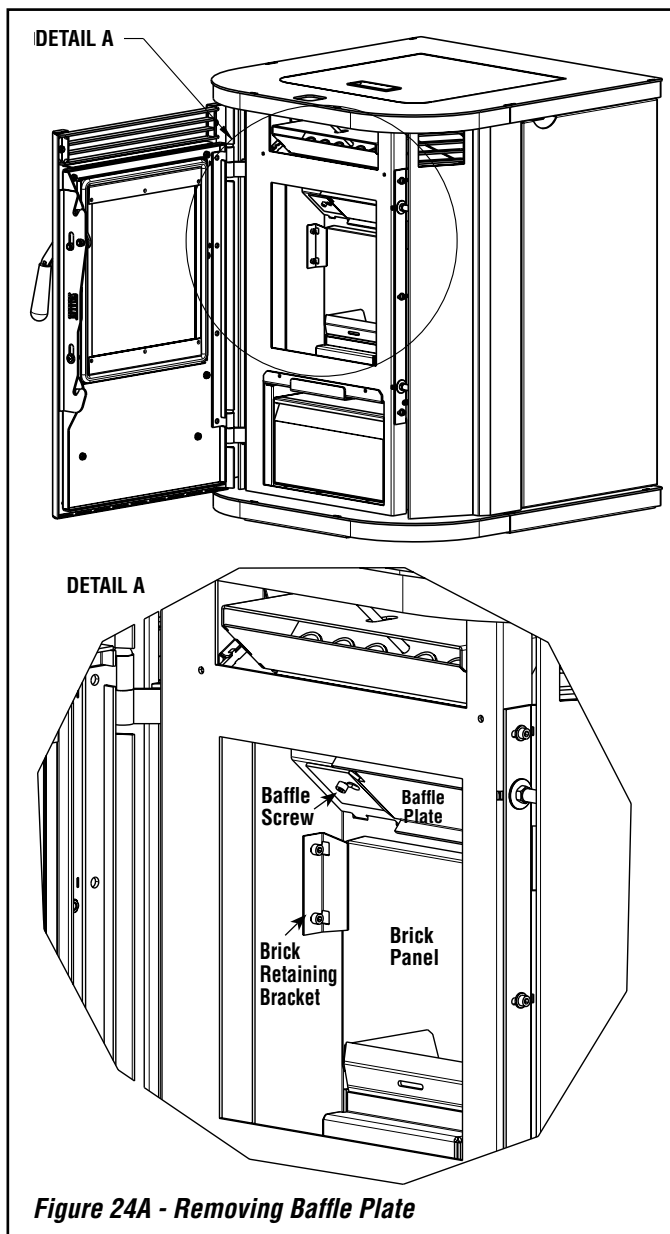


Figure 24A - Removing Baffle Plate

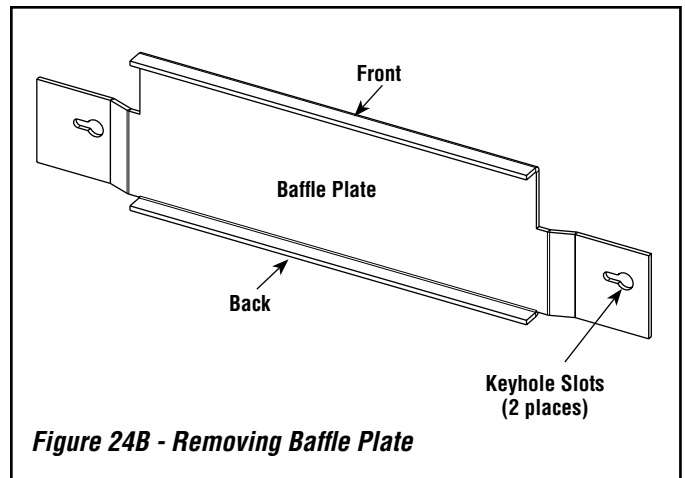


Figure 24B - Removing Baffle Plate

Cleaning Behind Tube Scraper



WARNING

DO NOT USE BRUSH ON HOT STOVE

Clean between the heat exchange tubes using a cleaning brush as illustrated in **Figure 25**.

With tube scraper rod pulled out 2 to 3 inches, insert brush behind tube scraper and remove ash build-up. Clean to the left and right side of heat exchanger, between tubes and the top of the firebox.

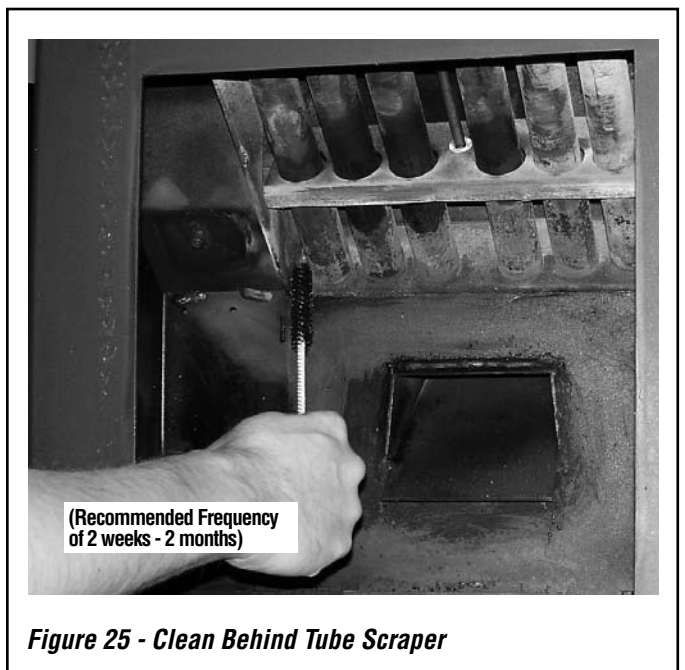
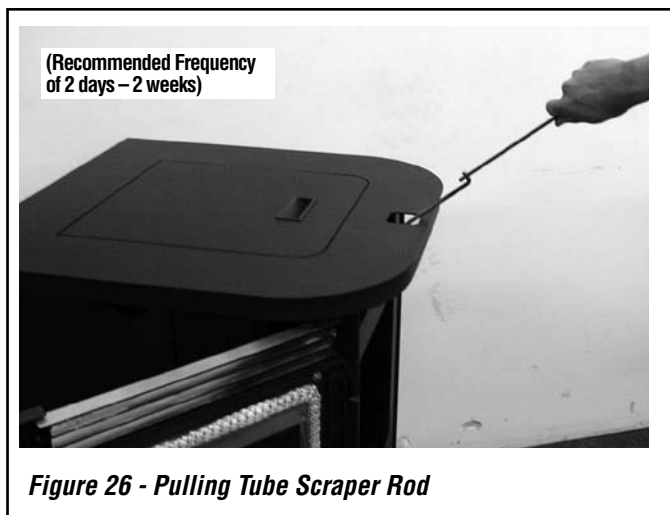


Figure 25 - Clean Behind Tube Scraper



Proof of Fire Switch

This switch needs to be removed and cleaned after every 100 bags of fuel burned.

Cleaning Procedure:

- 1) **UNPLUG STOVE!**
- 2) Locate the switch behind the right side panel, mounted on the combustion blower.
- 3) Using a flat-head screwdriver, remove the 2 screws which secure the switch to the blower housing.
- 4) Using a dry cloth, wipe off any flyash build-up on the sensor portion of the switch.
- 5) Reinstall switch. Ensure wires are properly connected to the switch and the connectors are not making contact with the blower housing. Close side panel.

Note: Failure to clean the proof of fire switch when needed may result in nuisance shut-downs because the fly-ash build-up insulates heat from reaching the switch.

(Recommended Frequency of 1 year or after every 100 bags of fuel used)

Window Wash

Using a small brush, sweep out all debris buildup from behind the window wash bracket as shown in **Figure 27**.



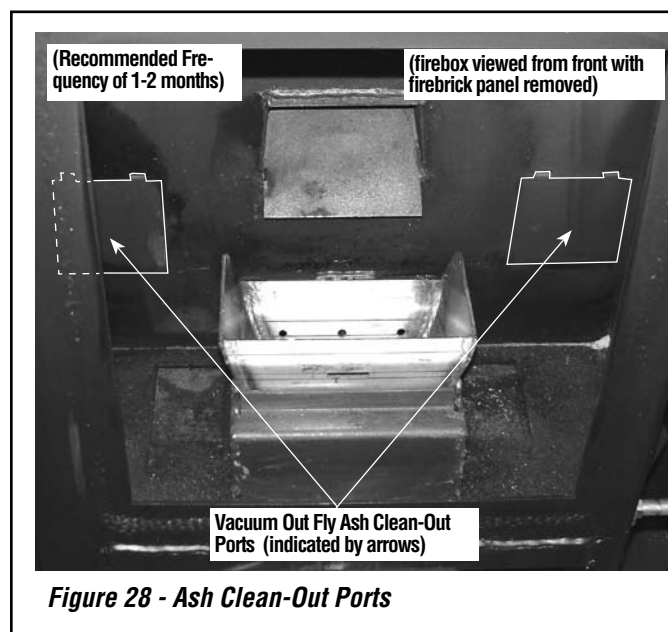
Ash Clean-out Ports

IMPORTANT NOTES:

- ENSURE APPLIANCE IS COLD BEFORE BEGINNING.
- FIREBRICK PANEL MUST BE INSTALLED BEFORE OPERATING UNIT.
- ASH CLEAN-OUT PORTS MUST BE CLEANED OUT AS PART OF ROUTINE MAINTENANCE.

Accessing Ash Clean-Out Ports

- 1) Open firebox door.
- 2) Remove Firebrick Panel (see **Figure 24A**):
 - a. Remove the two firebrick retainer brackets using a 5/32" allen wrench (located on the left and right side of the firebrick inside firebox). Loosen the screws (do not remove) until screw heads can be removed through the key hole slots in the brackets.
 - b. With the brick retainer brackets removed, lift firebrick panel up and out.
- 3) Using an approved ash vacuum (a brush can also be used), remove the ash build-up.
- 4) Reinstall firebrick panel.
- 5) Close firebox door.

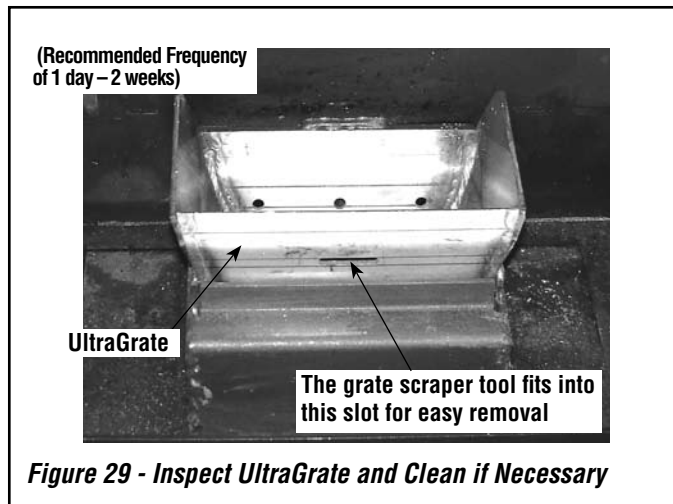


Soot and Flyash:

Formation and need for removal - The products of combustion will contain small particles of flyash. The flyash will collect in the exhaust venting system and restrict the flow of the flue gases. Incomplete combustion, such as 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.

UltraGrate™ (Burn Grate)

Inspect the UltraGrate periodically so that the air holes don't clog with ash or clinkers. The UltraGrate can easily be cleaned with the grate scraper tool, or it can be removed. It is very important to monitor the ash build up under the UltraGrate, as too much of ash will block combustion air from entering the grate, causing pellets to pile-up in the grate. The ash build-up under the grate is easily dumped into the ash pan by pulling out the ash slide weekly (see *Ash Slide Plate*, **Figure 30**).

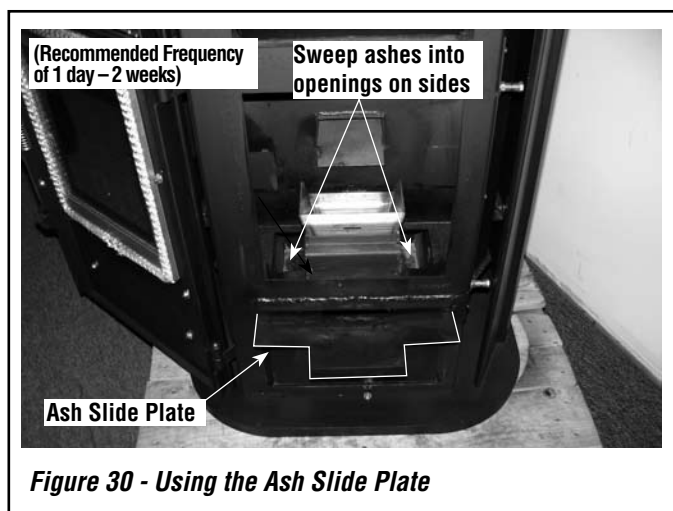


Ash Slide Plate

Ash that accumulates around the grate can be “dropped” into the ash pan as follows:

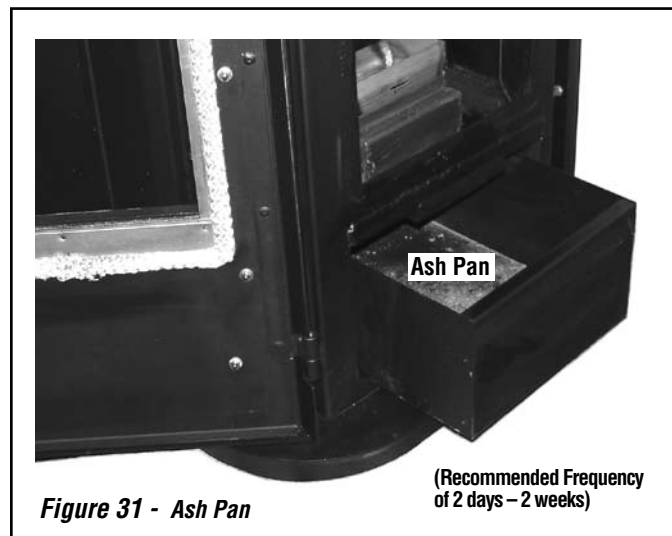
1. Open the firebox door.
2. Pull open the ash release slide plate as shown in **Figure 30**.
3. Using a brush, sweep the ashes from the firebox through openings to the ash pan.
4. Close the ash slide plate, then close the firebox door.

IMPORTANT NOTE: Make sure to fully close the ash slide plate when complete. Failure to close the ash release slide plate completely may cause the fuel to burn poorly (due to reduced air flow through the grate), which may then cause pellets to “pile up” in the grate. The ash slide must be fully closed for the firebox door to close.



Ash Pan

The ash pan will have to be emptied periodically, depending on amount of fuel consumed. The ash pan is located in the pedestal. See **Figure 31**.



Creosote Removal

When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining.

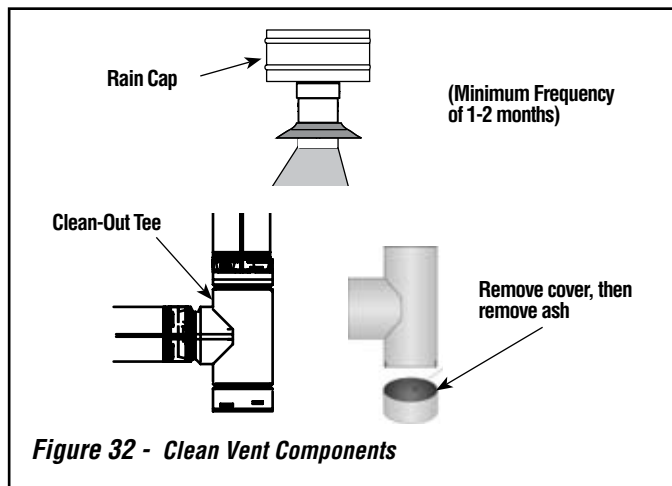
When ignited this creosote makes an extremely hot fire. The chimney connector and chimney should be inspected at least once every two months during the heating season to determine if a creosote buildup has occurred.

If creosote has accumulated it should be removed to reduce the risk of a chimney fire.

Exhaust Passages And Vent Pipe

Inspect frequently and clean when necessary. Fly-Ash will accumulate at all bends in the exhaust system.

Note: Large amounts of fly-ash build-up will create a lack of combustion air. Removing the clean-out tee cap on vertical installations will allow an inspection of the ash build-up in the clean-out tee and will help you to decide how frequently more extensive cleaning must be performed.



Door Rope Gasket

The condition of the rope gasket around the door and windows should be checked periodically and replaced or repaired if necessary. The door gasket does not need to be “tight” in all areas, since a small amount of leakage is not hazardous or detrimental to the performance of your stove.

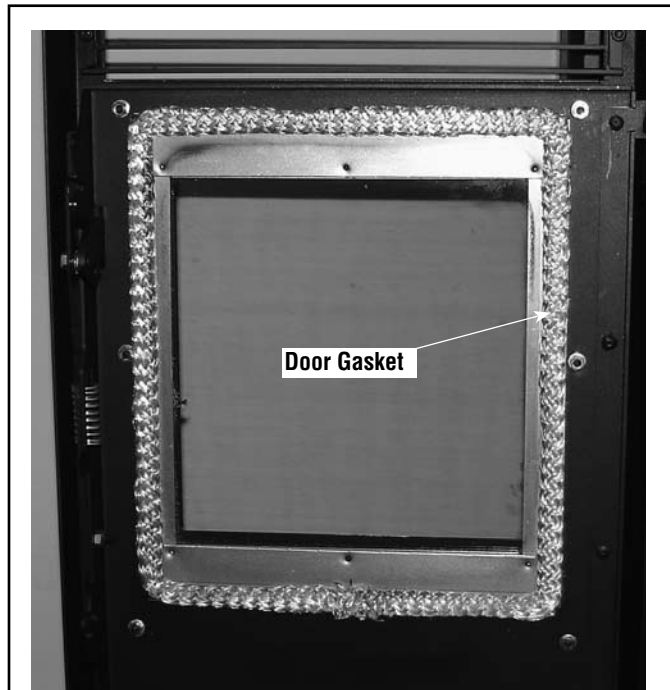


Figure 33 - Checking Door Gasket

Opening Side Panels

The hinged side panels are held closed with magnets. To open, grab the upper portion of the side panel (at front of stove) and pull each panel outward (see **Figure 34**). The side panels will hinge open from the back. **After maintenance is complete, close the side panels.**

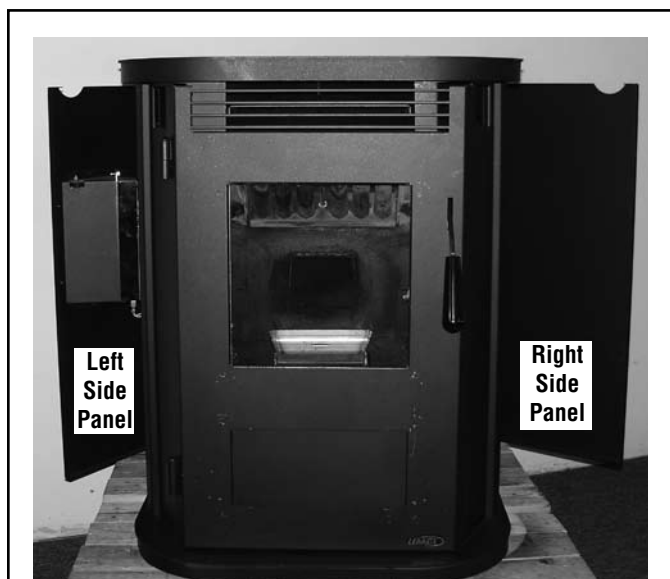


Figure 34 - Opening Side Panels

Motor Lubrication

The blowers are permanently lubricated by the manufacturer. Do not apply oil to any part of the blower, doing so may cause damage.

Blower Cleaning

Clean the air holes on the motors of both the exhaust and room air blowers annually. Remove the exhaust blower from the exhaust duct and clean out the internal fan blades as part of your fall start-up.

Rear Stove Compartment

The rear stove compartment should be cleaned periodically (a minimum of once a year). **DISCONNECT ELECTRICAL CORD PRIOR TO CLEANING STOVE.** Any household dust, pet hair or sawdust should be vacuumed or wiped out of the rear compartment of the stove, room air blower, and combustion blower (paying special attention to vacuuming out the intakes of both blowers). The electrical components should be wiped clean.

Glass Cleaning

DO NOT CLEAN THE GLASS WHEN THE STOVE IS HOT. To clean glass, use a mild non-abrasive cleaner when cool. Glass cleaners that are designed for stove glass is recommended. Creosote builds up on glass quickly when fire is burned at lowest settings. **DO NOT** use abrasive cleaners on glass. Periodically clean out the door air wash (a groove at the bottom of the door). This air wash directs air over the glass door to minimize soot buildup on the door.

Small Area Paint Touch-up

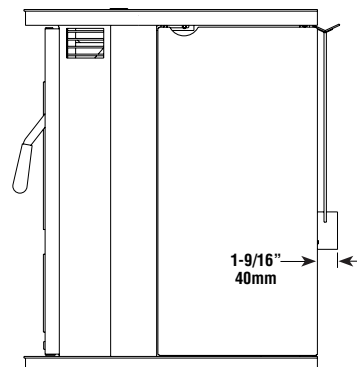
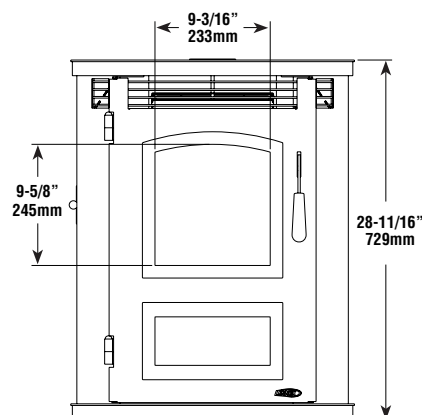
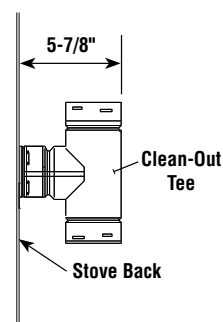
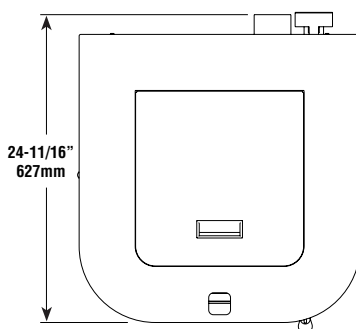
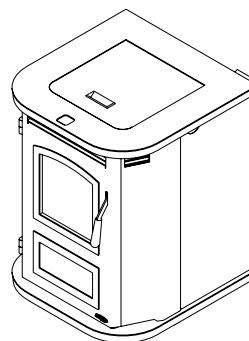
The stove body is painted with a quality high-temperature stove paint. Use only model TSPK-B Stove Paint, Catalog # 70K99. Do not touch-up your stove with any other paint.

Using one small piece of 320 grit sand paper and lightly sand the blemish so that the edges are “feathered” or smooth to the touch between the painted and bare surfaces. Do not let the sand paper gum up with paint, as this will cause scratches on the metal surface. If there are any scratches, use 600 grit sandpaper instead. Mask off surfaces you do not want painted. Paint lightly over the bare surface first as this will act as an undercoat. Then paint over a larger area in smooth even strokes to blend.

SPECIFICATIONS - Montage™ 32FS

Product Reference Information			
Cat. No.	Model	Ship. Weight	Ship. Volume
H6839	Montage 32FS	285 lb.	22.06 cu. ft.

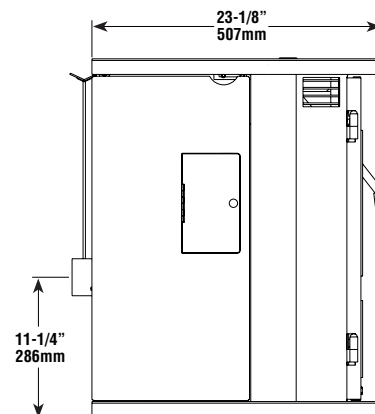
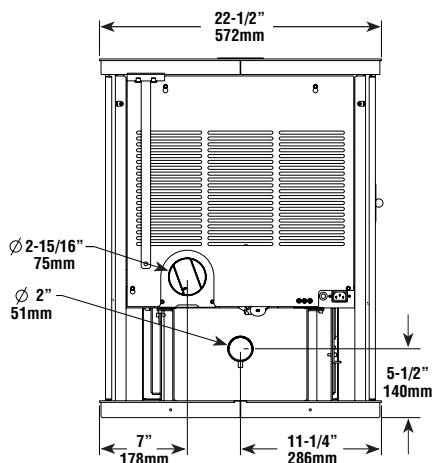
Flue Size	3" (76 mm) Rear
Floor Protection Requirements	Front and Sides: 6" (152 mm) Back: Up to 6" (152 mm) ❶
Hopper Capacity	55 Lbs. ❷
Burn time	15 - 37 hours ❷
Fuse, Control Board	5 Amp, 250 volt, 3AG ❸
Fuse, Igniter	6 Amp, 125 volt ❸
Heat Input (BTU's per hour)	13,000 - 32,000 BTU/hr ❷
Emissions	< 4.5 gr/hr (varies w/size and type of fuel) EPA Certified ❷
Convection (room air) Blower	150 CFM; 1.5 Amps, 2175 rpm
Combustion Blower	95 CFM; 1.0 Amps, 3000 rpm
Auger Motor	1.25 RPM; 0.5 Amps
Standard Features	Fastfire™ Self Igniter Wall Thermostat (wire included)



Notes:

- Dimensions shown are approximations only (+/- 1/4")
- Approved for Manufactured Home Installations.
- Optional Kits Available - Decorative trim kits, log set, window screen and 4" Quick Disconnect kits.
- The burn grate is designed with advanced UltraGrate™ technology.

- ❶ Non-combustible floor protection is required (see Floor Protection, Page 4). When installed at clearances less than 6", the floor protector is only required to extend to the wall.
- ❷ Fuel delivery and burn times will vary depending on size and type of fuel used. Estimated heat input based on fuel value of 8400 BTU per lb.
- ❸ Fuses are rated as fast blow.



NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE

COMPONENT DEFINITIONS

- **Air Wash**

A small slot in the door that allows room air to be pulled into the firebox and pours over the inside surface of the door glass to inhibit the build up of soot.

- **Auger**

A motor powered screw device that transfers the fuel from the hopper to the feed chute to deliver pellets to the UltraGrate™.

- **Auger Motor**

Drives the Auger. Motor specifications are: 0.5 Amp, 1.25 RPM (revolutions per minute).

- **Blower, Room Air (Convection)**

The blower function is to transfer the heat from the appliance to heat the room air.

- **Blower, Exhaust (Combustion)**

It has a radial impeller to deliver more air to the UltraGrate™. It pulls air into the UltraGrate by creating a negative pressure. This is done by extracting the exhaust gases out of the firebox and pushing the exhaust downstream to the flue exit.

- **Thermal Switches, High Limit**

There are three of these high-limit thermal switches on this model. If a temperature reaches the high limit temperature, the reset switch will "trip" and stop the flow of electricity to the auger motor. The thermal switches will not reset until they have cooled below low reset temperature).

- **Auto Reset Thermal Snap Switch for Room Air Blower (L250-30F, N/C*)** – This switch will trip at 250° F and will automatically reset when it reaches a temperature of 220° F. This switch is located on the room air blower jacket and is designed to detect an overfire condition.

- **Auto Reset Thermal Snap Switch for Combustion Air Inlet (L250-30F, N/C*)** This switch will trip at 250° F and will automatically reset when it reaches a temperature of 220° F. This switch is designed to detect reversed flow or excessive heat in the ashpan area. -This switch is located on the firebox base behind the convection jacket, directly above the ashpan. This switch is most easily accessed by removing the ashpan

- **Manual Reset Thermal Snap Switch for Feed Chute (L300-145F, N/C*)** This switch will trip at 300° F and will not be resettable until it reaches a temperature of 155° F. This switch is designed to detect if heat from the fire is approaching a path toward the hopper. If this switch trips it must be manually reset. To reset, open left side access door (facing stove), locate switch on the side of the auger tube and press the red button in the center until it clicks into the reset position.

- **Thermal Switch, Low Limit (Ceramic, F140-20F, N/O*)** - This "proof of fire" switch will close at 140° F and will not open until it reaches a temperature of 120° F. This switch is located on the combustion blower (behind the right side panel). It is designed to shut down the stove (auger motor and both blowers) if it does not detect the heat of a fire at the end of the initial startup period.

- **Hopper Lid Switch**

It is located on the left hinge area inside the hopper. It detects whether the hopper lid is open and will turn off the auger motor if the hopper lid is not properly closed. When opening the hopper when refueling, do not allow the hopper lid to remain open too long or the fire may extinguish. **NEVER DISCONNECT OR BYPASS THIS SWITCH FOR ANY REASON.**

- **Hopper**

The hopper is where the pellets are stored.

- **Heat Output Button**

It controls power to the feed system - auger motor and combustion blower. Use the heat output button to adjust to any of the five feed rate settings (which controls the burn rate).

- **Pressure Switch**

A safety device used to shut off the feed system (auger motor) if there is too much back pressure in venting system. Some possible causes are as follows:

- The venting system is obstructed.
- High altitude or other misc. environmental conditions affecting exhaust flow.
- Improper venting system.

The Pressure Switch is located inside the right access door right next to the combustion blower.

- **UltraGrate (Burn Grate)**

This is where combustion occurs and may be referred to as the "Burn Grate".

* **N/C = Normally Closed**
N/O = Normally Open

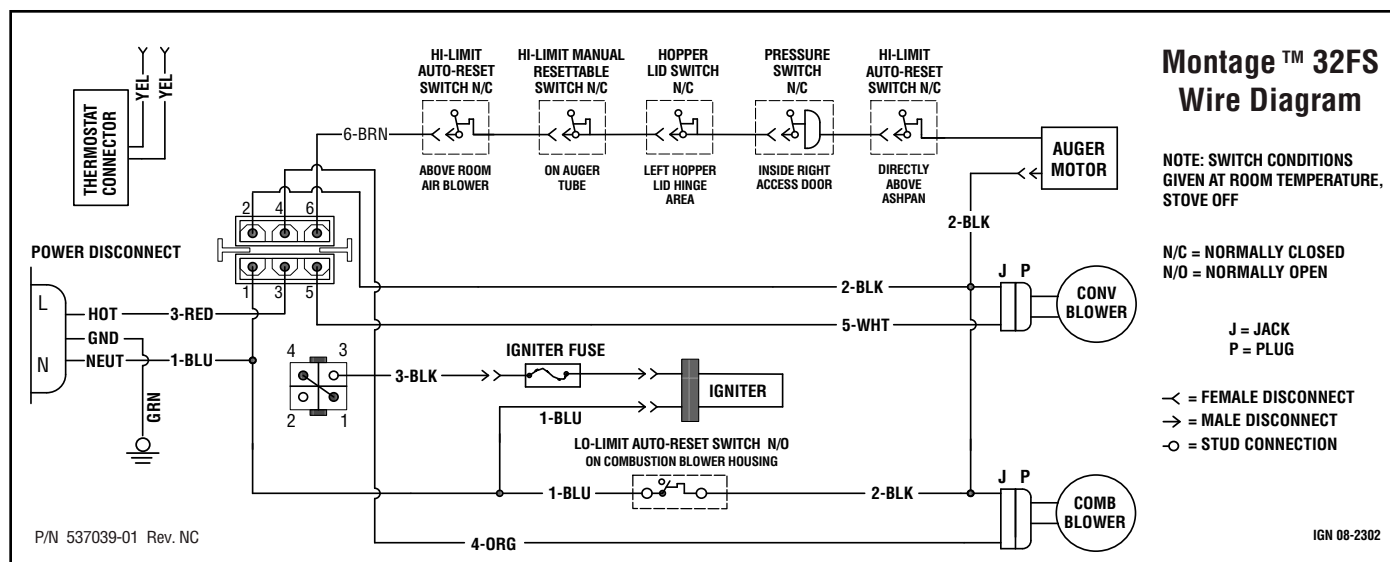


Figure 35 - WIRING DIAGRAM 120 V AC

NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE

TROUBLESHOOTING

QUALIFIED TECHNICIANS ONLY

Unplug Appliance Before Performing Any Troubleshooting or Maintenance

PROBLEM	CAUSE(S)	SOLUTIONS
1. Fire burns with a lazy orange flame. Pellets build up in the and there is excessive glass soot that is difficult to remove (Ash and soot are a product of combustion with any wood products, so some build-up on the glass is normal).	A) • There is insufficient combustion air. • Fuel feed rate is too high.	A ₁) Lack of maintenance (clean UltraGrate™, clean-out ports, exhaust flow passages, venting system, combustion blower intake, etc. • Remove any clinkers or ash from the bottom of the UltraGrate that might be obstructing the primary air holes. • Check that the heat exchange tubes are not coated with ash. • Clean internal exhaust ducts. • Check gasket seal around the door. Use a thin strip of paper, 1 in. wide. Open the door and close it on the paper strip. A slight friction should be felt when the paper strip is pulled. Repeat this process at various locations around the door gasket. Replace the door gasket if necessary. • Check for blockage in the air inlet tube or exhaust pipe. Clean as Necessary. • Inspect glass seal to ensure that it is in good condition and is properly seated to the door. A ₂) Fuel trim may need to be adjusted down for faster feeding fuels. A ₃) Change to a better grade of fuel if necessary. Check that the damper has been opened enough for the amount of fuel fed. A ₄) Have your Lennox Hearth Products dealer check your combustion blower for proper operation. A ₅) The venting system design is too restrictive (call your Lennox Hearth Products Technician to evaluate how the installation can be corrected to satisfy the exhaust flow requirements of the appliance). A ₆) Adjust the damper to increase combustion air flow.
2. Fire goes out or stove shuts down automatically	A) Stove has run out of fuel. B) Pellets are not feeding. C) The high limit temperature switch has tripped. D) There is too much combustion air for the amount of fuel. E) The proof of fire switch is opening, disconnecting power to the auger motor.	A) Refill hopper. B) See (Pellets will not feed) this Page. C) Allow the appliance to cool for 1 hour, then re-light. If the stove has been operating at a medium to high burn rate with the room air blower adjusted to low, there may not be enough air flow to dissipate the heat. On higher feed rates, adjust the blower speed to a higher setting. If this problem persists (particularly at lower burn rates) then the high limit thermal switch may need to be replaced by your dealer. D) Adjust the damper to reduce combustion air flow. E) Clean proof of fire switch (see maintenance section). If this does not correct problem, check switch for proper operation. Replace if necessary.
3. Pellets will not feed.	A) The hopper is empty. B) The auger motor or control board may be defective. The pressure switch tap or hose may be blocked. C) Back pressure in venting tripping pressure switch. D) Thermostat is in stand-by mode. E) Thermostat wires disconnected. F) High limit thermal switch may have been tripped. G) Self-aligning bearings in auger motor may be misaligned. H) Fines or wet fuel in auger. I) Hopper lid is open. J) Hopper lid switch is faulty.	A) Refill hopper. B) Check to be sure that there is no blockage in the pressure tap or hose. Have your Lennox Hearth Products dealer diagnose the problem and clean or replace any necessary parts. C) If new installation check for excessive 90° bends, long horizontal runs or excessive vertical run of 3" pipe. Possibly change to 4" pipe. If older installation check for excessive ash accumulation in pipe or other obstructions. Clean out pipe. D) Check to see if thermostat is set to low or if sun is shining directly on thermostat. E) Reinstall wires. F) Allow stove to cool. Increase room air blower setting. G) Gently tap the auger motor. H) Clean out fines or wet fuel in auger and hopper. Use PFI certified fuel only and store bags in a dry location. I) Close Hopper Lid. J) Replace hopper lid switch if determined to be faulty.

TROUBLESHOOTING

QUALIFIED TECHNICIANS ONLY

Unplug Appliance Before Performing Any Troubleshooting or Maintenance

PROBLEM	CAUSE(S)	SOLUTIONS
4. Blowers will not operate when the ON/OFF start button is depressed.	<p>A) There is no power to the stove.</p> <p>B) There is no power to the control board.</p> <p>C) The low limit thermal switch has failed in the closed position.</p>	<p>A) Check that the stove is plugged in to the wall outlet.</p> <p>B₁) Check if the house circuit breaker has tripped.</p> <p>B₂) Check the wire connections on the high limit thermal switch and control board.</p> <p>C) Have your Lennox Hearth Products dealer replace the low limit thermal switch.</p>
5. There is soot or fly-ash in the house.	<p>A) The window is being cleaned when the stove is operating.</p> <p>B) There is leakage at the joints between the combustion blower, connection or exhaust pipe connections. This will be evidenced by dust on the impeller of the room air blower, and in the heat exchanger area.</p> <p>C) The vacuum cleaner is leaking.</p>	<p>A) Turn down the room air blower or turn off stove before cleaning to prevent dispersion of ash and soot into the room.</p> <p>B) Seal up any leaks in the exhaust system with room temperature vulcanizing high temperature silicone sealer (RTV).</p> <p>C) DO NOT use a standard household vacuum or "shop vac" as the filters will leak the fine particles of ash. Clean the stove with an approved ash vacuum ONLY.</p>
6. Stove will not light.	<p>A) The igniter element may have failed.</p> <p>B) There is not enough pellets in the UltraGrate.</p>	<p>A) Check igniter element fuse in rear stove compartment. Call your Lennox Hearth Products dealer. See <i>Lighting Procedure Without Igniter, Page 20</i>.</p> <p>B) Prime the feed system (see <i>Pre-lighting Instructions, Page 19</i>).</p>
7. Fault	<p>A) The low limit thermal switch is not operating correctly (stuck in open position)</p> <p>B) Stove has run out of fuel.</p> <p>C) A disk has tripped / pressure switch.</p>	<p>A) Have your Lennox Hearth Products dealer replace the low limit thermal switch.</p> <p>B) Refill hopper.</p> <p>C) Blower intake, exhaust passages and/or venting system needs cleaning (follow routine and annual maintenance procedures).</p>
8. Blowers run continuously	A) Wire harness and/or control board has been damaged – unplug stove and contact dealer.	A) Contact your local Lennox Hearth Products dealer.
9. Blinking red lights on control board LED's.	A) Thermostat circuit in not closed	<p>A₁) If a wall thermostat is not installed, a jumper is required between the 2 thermostat terminals (see <i>Figures 7 and 8 on Page 9</i>). If the jumper is missing contact your LHP dealer.</p> <p>A₂) The wall thermostat (if used) is defective or there is a break in the connections or thermostat wire.</p>

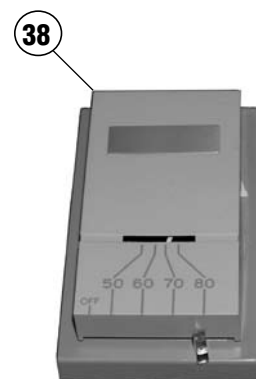
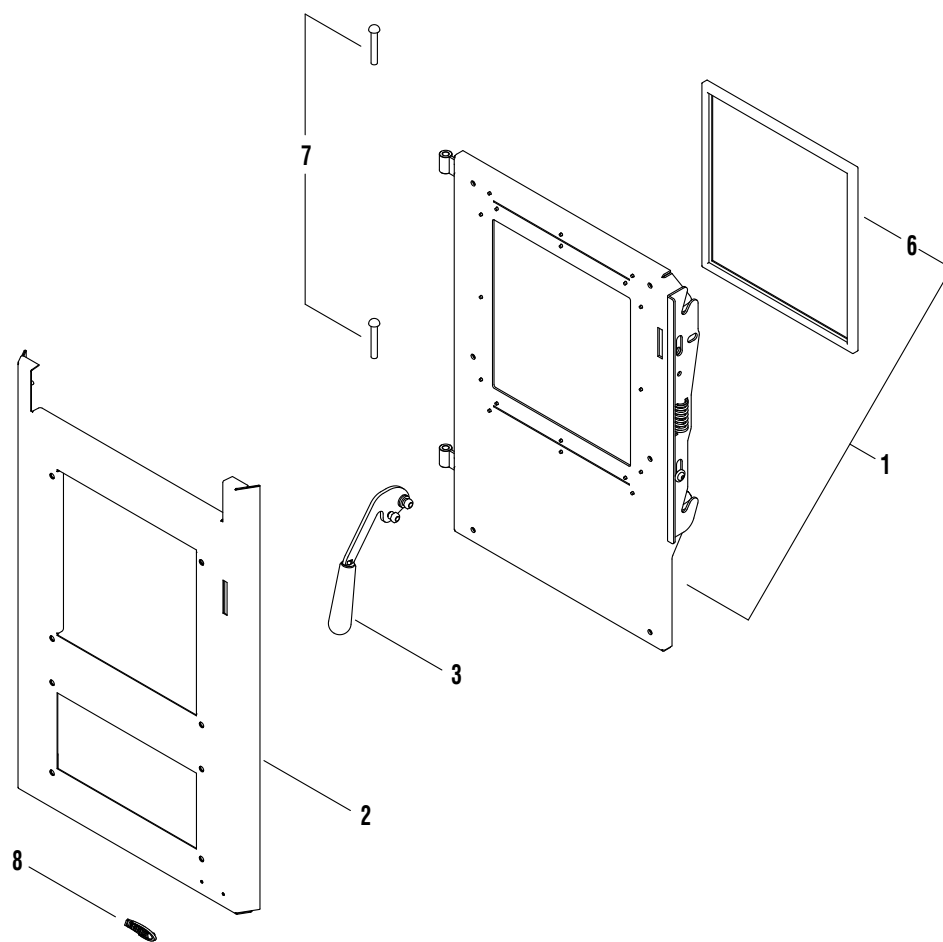
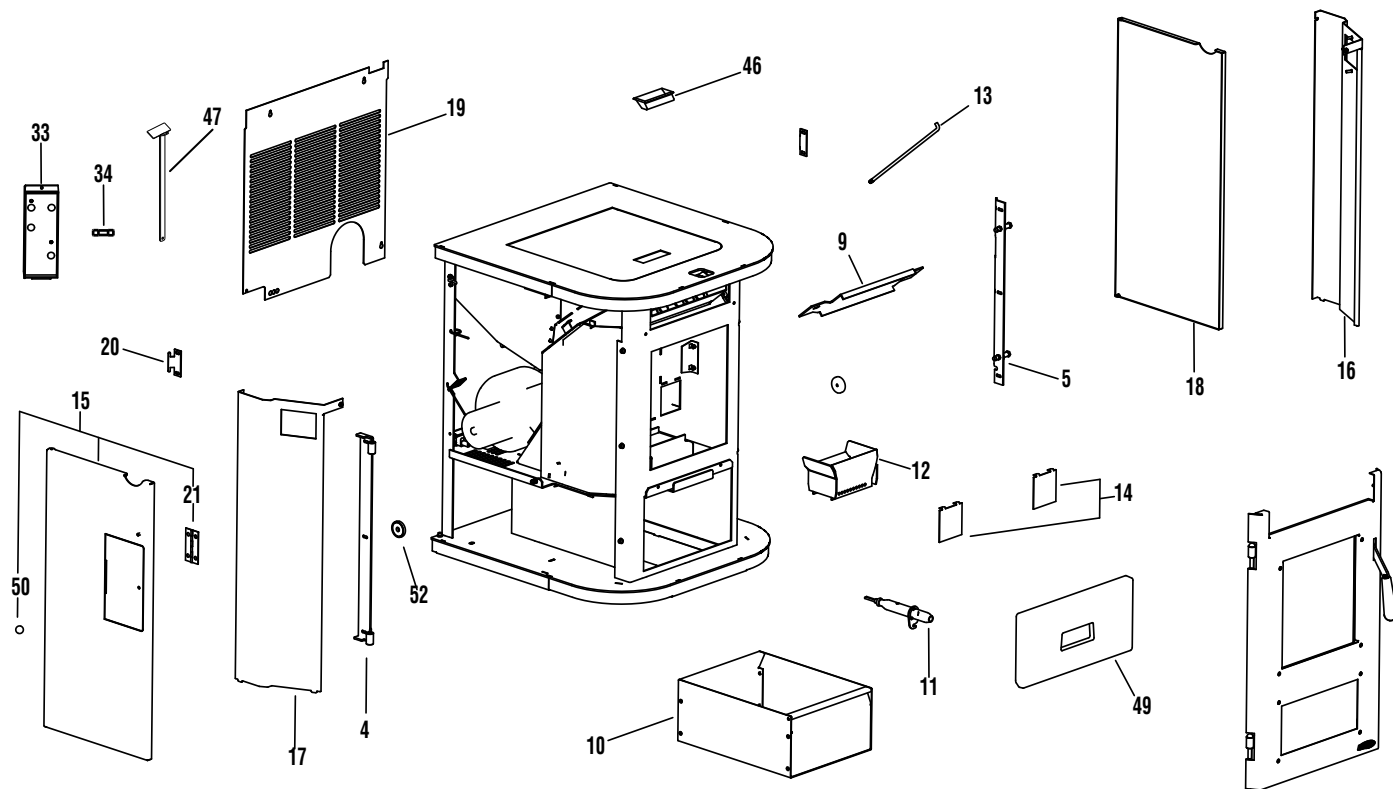
REPLACEMENT PARTS LIST - MONTAGE™ 32FS

Contact an Authorized Lennox Hearth Products dealer to obtain any of these parts. Never use substitute materials. Use of non-approved parts can result in poor performance and safety hazards.

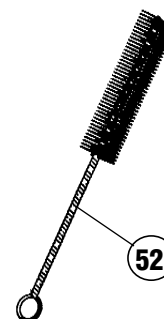
DOOR PARTS		
Item #	Cat. No.	Description
1	H7045	Door Assembly
2	H7046	Face Assembly
3	H7047	Door Handle Assembly
4	H7048	Hinge Plate Assembly
5	H7049	Latch Plate Assembly
6	H7313	Door Rope Kit, 4 ft.
7	12050506	Door Hinge Pin (2 per pkg.)
8	H7050	Lennox Logo Pewter Badge
FIREBOX PARTS		
9	H7051	Heat Exchanger Baffle Assembly
10	H7052	Ash Pan Assembly
11	H7053	Igniter Assembly (Instr. Form # 506033-07)
12	12158905	UltraGrate™
13	17150009	Scraper Rod
49	H7054	Refractory Panel
14	H7055	Ash Clean-out Covers (Pair)
PANELS		
15	H7056	Left Side Door Assembly
16	H7057	Right Corner Panel Assembly
17	H7058	Left Corner Panel Assembly
18	H7059	Right Side Door
19	H7060	Stove Back Cover
20	H7061	Side Door Hinge Bracket
21	H7062	Hinge, 3" (1 per pkg.)
ELECTRICAL		
22	H7309	Convection Blower Assembly
23	H7310	Combustion Blower Assembly
24	H7312	Hopper Lid Switch Bracket (1 per pkg.)
36	H7063	Hopper Lid Switch (1 per pkg.)
25	H7064	High Limit Manual Reverse Flow Snap Switch Assembly, L300-145F N/C, (1 per pkg.) (on the side of the auger tube body, at top near feed chute)
26	H7065	High Limit Auto Reset Reverse Flow Snap Switch Assembly, L250-30F N/C, (1 per pkg.) (on firebox base behind convection jacket & above the ash pan)
28	12147705	High Limit Auto Snap Switch, L250-30F N/C, (3 per pkg.) (on convection jacket)
37	H5887	Low Limit Auto Proof of Fire Snap Switch Assembly, F140-30F N/O, (1 per pkg.) 57601

Item #	Cat. No.	Description
27	12155907	Igniter Inline Holder with Fuse
29	16050001	Vacuum Switch
30	H5898	Vacuum Hose
31	H7066	Wiring Harness
32	H3079	Power Cord
33	H7067	Control Board
50	12051409	Control Panel Knob
34	12055908	Fuse, Control Board and Igniter, (12 per pkg.)
35	H5886	Auger Motor
38	16050205	Wall Thermostat
***	H3457	Wire, Thermostat
MISC.		
40	H7068	Flue Outlet Tube Assembly
52	H5916	Round Door Magnet
41	11756300	Auger Shaft Assembly
42	H7311	Auger End Plate
43	12041300	Auger Collar Assembly
44	12051001	Auger Motor Bumper (5 per pkg.)
45	12051100	Upper Shaft Bushing, Brass (12 per pkg.)
46	H4958	Hopper Lid Handle
47	12055500	Scraper Tool
GASKETS		
53	61050016	Flue Outlet Gasket (5 per pkg.)
54	61050005	Combustion Blower Gasket (5 per pkg.)
55	61057203	Convection Blower Gasket (5 per pkg.)
56	H7074	Auger Tube End Cap Gasket (5 per pkg.)
51	12050004	Cleaning Brush

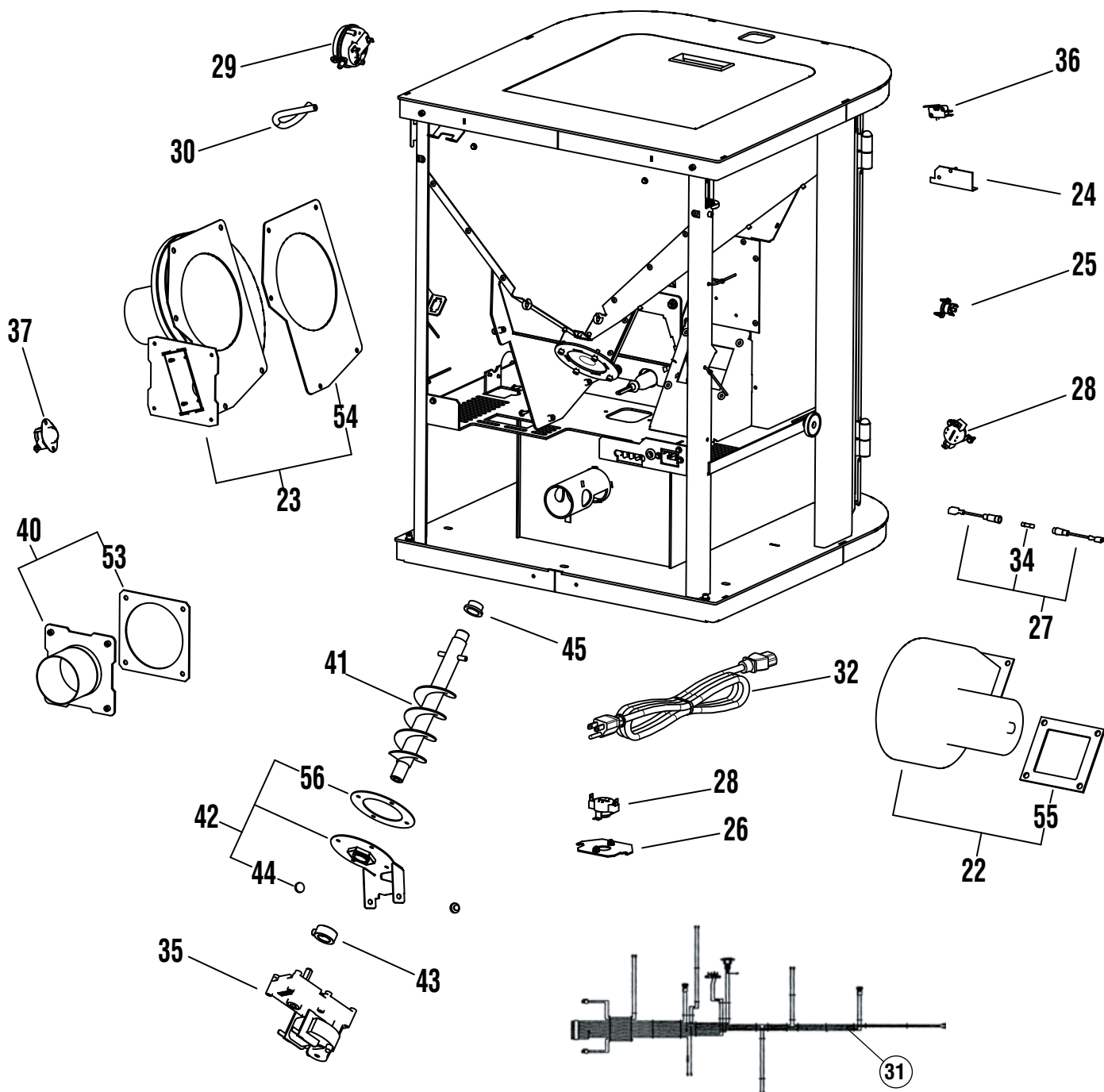
REPLACEMENT PARTS LIST - MONTAGE 32FS



Includes 20 feet of thermostat wire



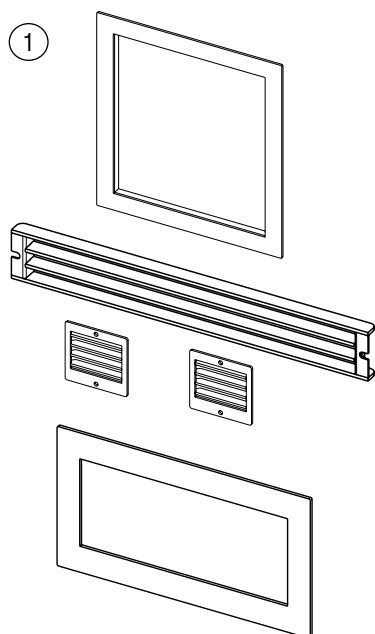
REPLACEMENT PARTS DIAGRAMS



OPTIONAL ACCESSORIES

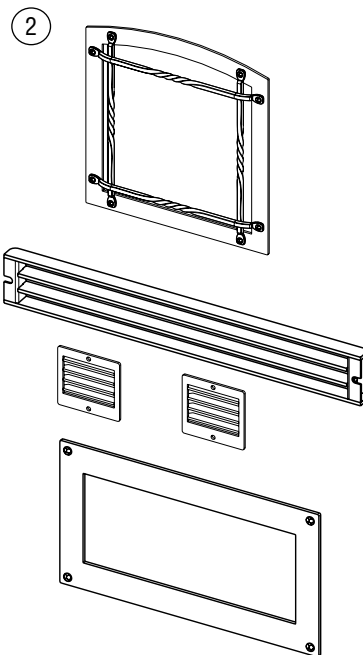
Item #	Cat. No.	Model	Description
Optional Accessories			
1	H6840	MONT-32FS-CONT	Contemporary Trim Accessory Kit, Brushed Nickel
2	H6841	MONT-32FS-ART	Artisan Accessory Trim Kit, Matte Black
3	H6842	MONT-32FS-ARCH	Arch Accessory Trim Kit, Matte Black
4	H6843	MONT-32FS-GOTH	Gothic Cast Iron Accessory Kit, Black Paint
5	H0244	DLS-PM	Log Set
6	70K99	TSPK-B	Touch-up Paint, Black
7	14M81	QDPC-4	Quick Disconnect Pipe Connector, 4" *

* Converts from standard 3" outlet to 4"



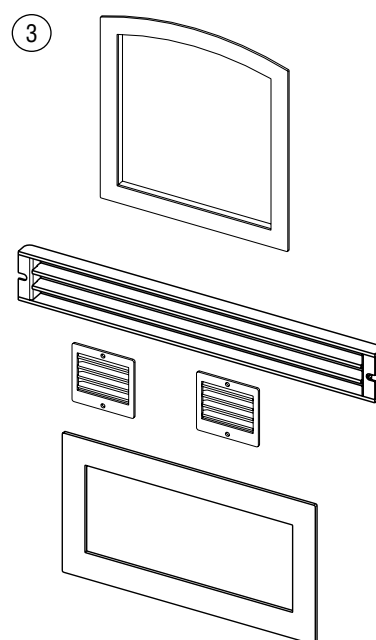
Contemporary Accessory Kit,
Montage 32FS, Brushed Nickel

Form # 775,201M



Artisan Accessory Kit, Montage
32FS, Matte Black

Form # 775,201M

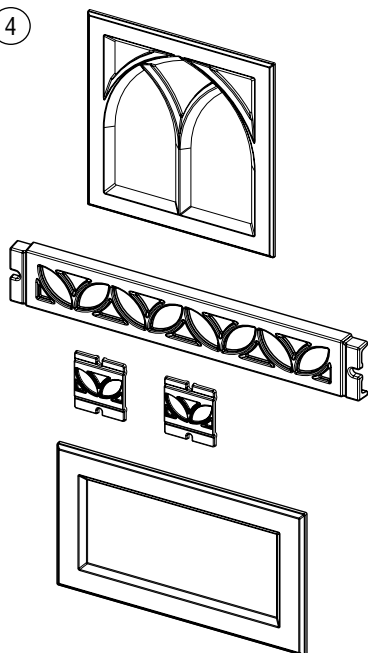


Arch Accessory Kit, Montage
32FS, Matte Black

Form # 775,201M

ACCESSORIES

4



Gothic Accessory Kit, Montage
32FS, Black Paint

Form # 775,201M

5

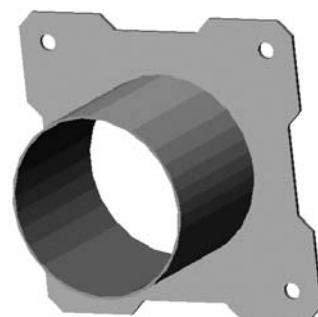


Form # 775,077M

6



7



SAFETY / LISTING LABEL



Manufactured By / Fabriqué Par:
LENNOX HEARTH PRODUCTS
PO BOX 987
Auburn, WA 98071 USA



CERTIFIED FOR U.S. AND CANADA. LISTED ROOM HEATER FOR USE WITH PFI APPROVED PELLETIZED WOOD FUEL ONLY. FOR USE IN MANUFACTURED (MOBILE) HOMES.

INSTALL AND USE ONLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION IN YOUR AREA. DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE. SEE LOCAL BUILDING CODE AND MANUFACTURER'S INSTRUCTIONS FOR PRECAUTIONS REQUIRED FOR PASSING A CHIMNEY THROUGH A COMBUSTIBLE WALL OR CEILING. THIS PELLET FIRED APPLIANCE HAS BEEN TESTED AND LISTED FOR USE IN MANUFACTURED HOMES IN ACCORDANCE WITH OREGON ADMINISTRATIVE RULES 814-23-900 THROUGH 814-23-909.

OPERATE ONLY WITH FIREBRICK IN PLACE. WARNING: OPERATE ONLY WITH VIEWING DOOR CLOSED. INSPECT FLUE FREQUENTLY TO PREVENT ACCUMULATION OF SOOT. THE HEATER AND FLUE MUST BE IN GOOD CONDITION. KEEP FURNISHINGS AND OTHER COMBUSTIBLE MATERIALS WELL AWAY FROM HEATER.

COMBUSTIBLE FLOOR MUST BE PROTECTED BY NON-COMBUSTIBLE MATERIAL EXTENDING BENEATH THE HEATER AND 6" TO THE FRONT, SIDES AND REAR AS INDICATED OR TO THE NEAREST PERMITTED COMBUSTIBLE MATERIAL.

USE 3" / 75MM OR 4" / 100MM TYPE "PL" LISTED PELLET VENT AND COMPLETE COMPONENTS.

Report No./Numéro de Rapport: 3105656MID
(Test Date OCT 2006 / Testé le OCT 2006)

Serial No.
Numéro
de série

WH-

Model / Modèle: MONTAGE™ 32FS
Tested to/Testé selon: ASTM E-1509 / UL 1482 /
ULC S627

HOMOLOGUÉ POUR LES É.U. ET LE CANADA. RÉPERTORIÉ COMME RADIATEUR INDÉPENDANT. FONCTIONNE AU BOIS DE CHAUFFAGE GRANULÉ. AUSSI UTILISÉ DANS LES MAISONS PRÉFABRIQUÉES (MOBILES).

INSTALLER ET UTILISER L'APPAREIL EN CONFORMITÉ AVEC LES DIRECTIVES D'INSTALLATION DU FABRICANT ET DES AUTORITÉS LOCALES EN BÂTIMENT OU LE SERVICE DE PRÉVENTION DES INCENDIES. COMMUNIQUER AVEC LES AUTORITÉS COMPÉTENTES LOCALES EN MATIÈRE DE BÂTIMENT ET D'INCENDIE POUR EN SAVOIR PLUS SUR LES RESTRICTIONS ET L'INSPECTION DE L'INSTALLATION DANS VOTRE RÉGION. NE RACCORDER PAS CET APPAREIL À UN CONDUIT DE FUMÉE DESSERVANT UN AUTRE FOYER. CONSULTER LE CODE DU BÂTIMENT DE VOTRE RÉGION ET LES DIRECTIVES DU FABRICANT POUR CONNAÎTRE LES MESURES DE PRÉCAUTION À PRENDRE POUR PASSER UNE CHEMINÉE DANS UN MUR OU UN PLAFOND. CET APPAREIL ALIMENTÉ AUX GRANULES A ÉTÉ MIS À L'ÉPREUVE ET RÉPERTORIÉ POUR UNE UTILISATION DANS LES MAISONS PRÉFABRIQUÉES CONFORMEMENT AUX RÈGLEMENTS ADMINISTRATIFS 814-23-900 À 814-23-909 DE L'OREGON.

FAIRE FONCTIONNER L'APPAREIL UNIQUEMENT EN PRÉSENCE DE BRIQUES RÉFRACTAIRES. AVERTISSEMENT : FAIRE FONCTIONNER SEULEMENT SI LA PORTE VITRÉE EST FERMÉE. NETTOYER L'ÉCHANGEUR DE CHALEUR ET LE CONDUIT DE FUMÉE FRÉQUEMMENT AFIN D'ÉVITER L'ACCUMULATION DE SUIE. L'APPAREIL ET LE CONDUIT DE FUMÉE DOIVENT ÊTRE EN BON ÉTAT. GARDER LES MEUBLES ET AUTRES PRODUITS COMBUSTIBLES ÉLOIGNÉS DE L'APPAREIL.

LES PLANCHERS DOIVENT ÊTRE PROTÉGÉS AVEC DES MATÉRIAUX NON COMBUSTIBLES, SOUS LE RADIATEUR, 6" À L'AVANT SUR LES CÔTÉS ET À L'ARRIÈRE TEL QU'INDIQUÉ OU JUSQU'ÀUX MATÉRIAUX NON COMBUSTIBLES PERMIS LES PLUS PRÈS. UTILISER LES COMPOSANTS DE CHEMINÉE DE TYPE "PL" DE 3 PO/75 MM OU DE 4 PO/100 MM.

ROUTINE MAINTENANCE REMINDER

FREQUENCY OF CLEANING AND MAINTENANCE OF YOUR STOVE DEPENDS ON THE ASH CONTENT OF THE PELLETS YOU BURN. CHECK THE FOLLOWING PARTS OF YOUR STOVE WEEKLY FOR THE FIRST MONTH TO DETERMINE THE FREQUENCY OF CLEANING.

A. BURN GRATE B. HEAT EXCHANGER TUBES C. ASH PAN AND EXHAUST PIPE
SEE YOUR MANUAL AND/OR DEALER FOR MORE INFORMATION. INPUT RATING RANGE: 1.5 TO 3.8 LBS./HOUR (NOMINAL) ELECTRICAL RATING: 60 HZ, 120 V, LESS THAN 10 AMP

RAPPEL D'ENTRETIEN PÉRIODIQUE

LA FRÉQUENCE DE NETTOYAGE ET D'ENTRETIEN DE VOTRE POÊLE DÉPEND DE LA QUANTITÉ DE CENDRE DE GRANULES CONSOMMÉES. VÉRIFIER HEBDOMADAIREMENT LES PIÈCES DE VOTRE POÊLE SUIVANTES DURANT LE PREMIER MOIS POUR ÉTABLIR LA FRÉQUENCE DE NETTOYAGE :

A. GRILLE B. TUBES DE L'ÉCHANGEUR DE CHALEUR C. TRAPPES ET CONTENANT DE CENDRES
POUR OBTENIR DE PLUS AMPLES RENSEIGNEMENTS, CONSULTER VOTRE GUIDE ET/OU VOTRE DÉTAILLANT. CARACTÉRISTIQUES ÉLECTRIQUES : 120 V, 60 HZ, MOINS DE 10 AMP; CONSOMMATION THERMIQUE : 1,5 À 3,8 LB/H MAX.



CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, CLOTHING, AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS. SEE NAMEPLATE AND INSTRUCTIONS. 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 CONDITIONS. DO NOT OVERFILL HOPPER.

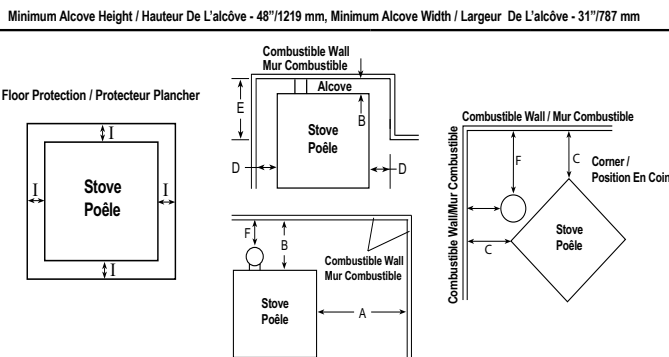
ATTENTION: L'APPAREIL EST CHAUD LORS DE L'OPÉRATION. NE PAS Y TOUCHER. TENIR LES ENFANTS, LES MATÉRIAUX COMBUSTIBLES, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS DE L'APPAREIL. RISQUE DE BRÛLURES CUTANÉES. VOIR LA PLAQUE SIGNALÉTIQUE ET LES DIRECTIVES. OPÉRER L'APPAREIL SEULEMENT SI LE COUVERCLE DE LA TRÉMIE DU COMBUSTIBLE EST FERMÉ. SOUS CERTAINES CONDITIONS, DES PRODUITS DE COMBUSTION POURRAIENT S'ÉCHAPPER SI LA TRÉMIE N'EST PAS FERMÉE. NE PAS SURCHARGER LA TRÉMIE.

U.S. ENVIRONMENTAL PROTECTION AGENCY - CERTIFIED to comply with July 1990 particulate emission standards
ENVIRONMENTAL PROTECTION AGENCY DES ÉTATS-UNIS HOMOLOGUÉ
- Pour être conforme avec les normes d'émission de particules, juillet 1990

Date of Manufacture / Date De Fabrication

2008	2009	2010	JAN.	FEB.	MAR.	APR.	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			JANV	FEVR	MARS	AVR	MAI	JUIN	JUIL	AOÛT	SEPT	OCT	NOV	DEC

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS NE PAS ENLEVER CETTE ÉTIQUETTE DÉGAGEMENT MINIMUM POUR LES MATÉRIAUX COMBUSTIBLES		Horizontal Flue - Directly Through Wall Installation / Installation Du Conduit De Fumée À L'horizontale, Directement Dans Le Mur	Interior Vertical - Flue Installation / Installation Intérieure Du Conduit De Fumée À La Verticale
Freestanding Stove Installation / Installation Du Poêle Autonome			
Manufactured (Mobile) Home Or Residential Installation / Installation Résidentielle Ou Dans Une Maison réfabriquée (Mobile)			
Sidewall To Unit / Du Mur Latéral À L'appareil	A	4"/102 mm	4"/102 mm
Backwall To Unit Side / Du Mur Arrière À L'appareil	B	2"/51 mm	9"/229 mm
Wall To Unit Corner / Du Mur Au Coin De L'appareil	C	1"/26 mm	1"/26 mm
Alcove To Fuel Hopper / De L'alcôve À L'entonnoir Du Bois De Chauffage	D	4"/102 mm	4"/102 mm
Max. Depth Of Alcove / Profondeur Max. De L'alcôve	E	24"/610 mm	24"/610 mm
Flue To Wall / Du Conduit De Fumée Au Mur	F	3"/77 mm	3"/77 mm
Front/rear/side To Floor Protection Outside Edge / De L'avant, L'arrière Et Les / Côtés Au Plancher Bord Extérieur De Protection	I	6"/153 mm	6"/153 mm



Part No./ No. Pièce #580035-01 Rev. NC, 06/2008

Do Not Remove This Label / E Pas Enlever Ou Recouvrir Cette Étiquette

Made In U.S.A. / Fabriqué Aux U.S.A.

IGN 08-2204

Note that your stove's serial number is printed on the safety label, which is located near the inside of the hopper. Your stove's serial number is preceded by a "WH-" (Example WH-0000000).

WARRANTY

Your pellet stove is covered by a limited warranty (provided with appliance). Please read the warranty to be familiar with its coverage.

Retain this manual. File it with your other documents for future reference.

PRODUCT REFERENCE INFORMATION

We recommend that you record the following important information about your fireplace. Please contact your Lennox Hearth Products dealer for any questions or concerns. For the number of your nearest Lennox Hearth Products dealer, please call 1-800-9-LENNOX.

REPLACEMENT PARTS

See **Page 30 through 31** for a complete replacement parts list. Use only parts supplied from the manufacturer.

Normally, all parts should be ordered through your Lennox Hearth Products distributor or dealer. Parts will be shipped at prevailing prices at time of order.

When ordering repair parts, always give the following information:

1. The model number of the appliance.
2. The serial number of the appliance.
3. The part number.
4. The description of the part.
5. The quantity required.
6. The installation date of the appliance.

If you encounter any problems or have any questions concerning the installation or application of this system, please contact your dealer.

LENNOX HEARTH PRODUCTS

1110 West Taft Avenue

Orange, CA 92865

Visit us at www.Lennox.com

Your Stove's Model Number _____
Your Stove's Serial Number _____
The Date On Which Your Stove Was Installed _____
Your Dealer's Name _____
Your Dealer's Phone Number _____




**NATIONAL
FIREPLACE
INSTITUTE**
NFI
CERTIFIED
www.nficertified.org

We recommend that our pellet hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Pellet Specialists or who are certified in Canada by Wood Energy Technical Training (WETT).




**Wood Energy
Technical Training**
www.wettinc.ca



**NATIONAL
FIREPLACE
INSTITUTE**
NFI
CERTIFIED
www.nficertified.org

Nous recommandons que nos pôeles à boulettes soient installés et que l'entretien soit effectué par des professionnels certifiés, aux Etats-Unis par le National Fireplace Institute® (NFI), et au Canada par le Wood Energy Technical Training (WETT).



**Wood Energy
Technical Training**
www.wettinc.ca

Lennox Hearth Products reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.

LENNOX
HEARTH PRODUCTS