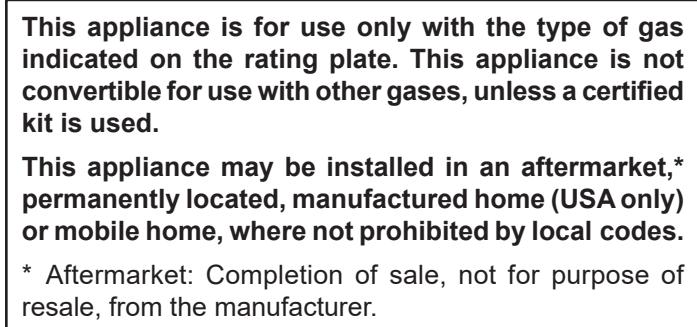
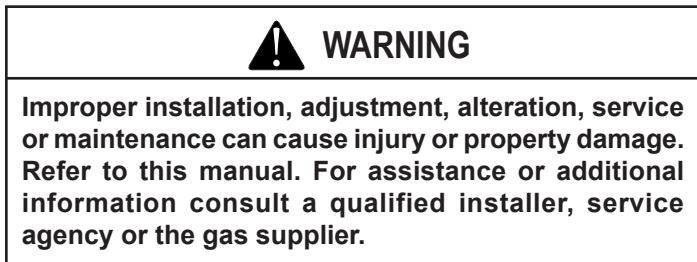
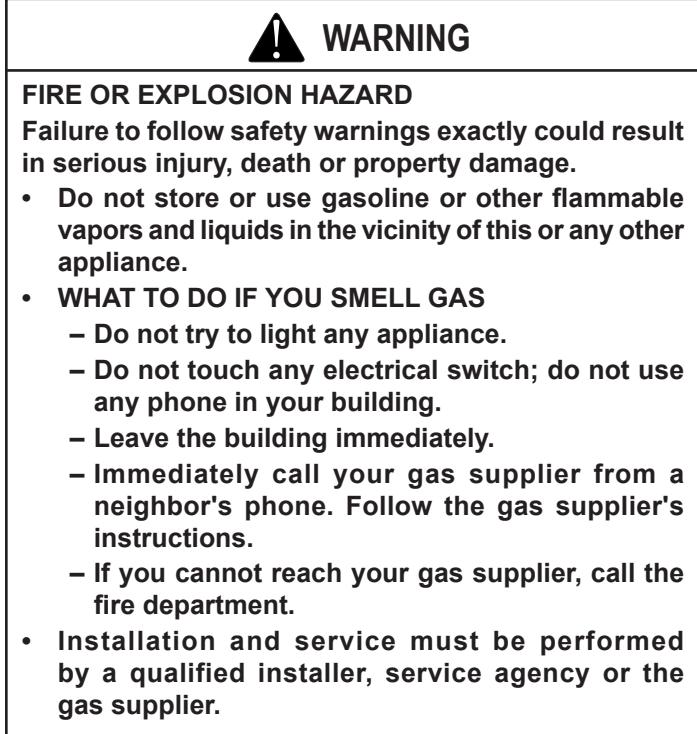
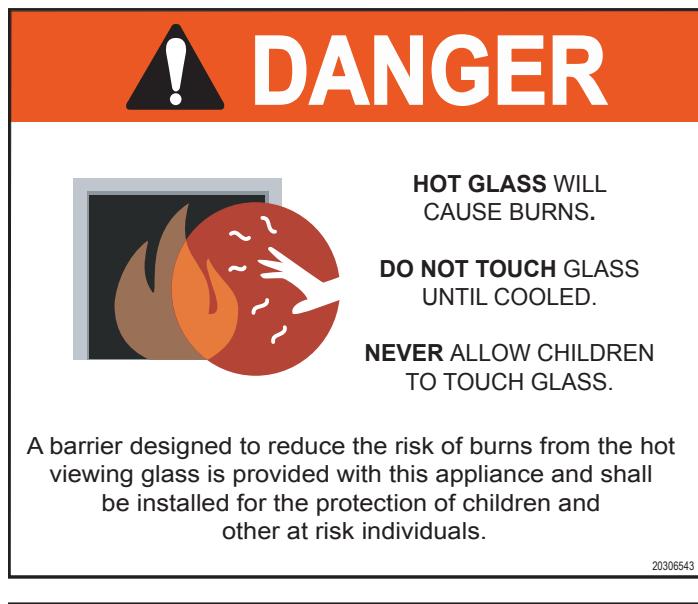
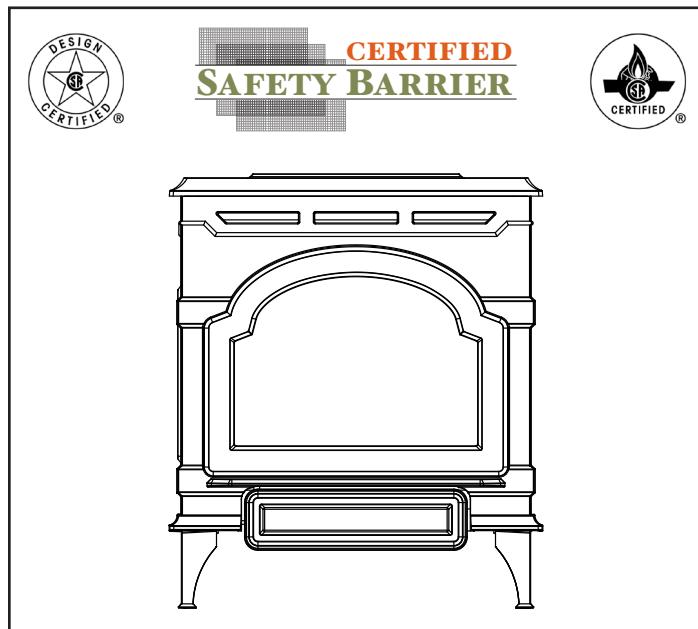


Direct/Natural Vent Gas Stove Installation and Operating Instructions

Models: OXDV30SP



This unit has been retired.
Service parts pages within have
been removed.
For replacement parts, please
refer to the individual service parts
list located on the brand website.

PLEASE READ THE INSTALLATION & OPERATING INSTRUCTIONS BEFORE USING APPLIANCE.

Thank you and congratulations on your purchase of an Hearth & Home Technologies stove.

IMPORTANT: Read all instructions and warnings carefully before starting installation. Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

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➔ = Contains updated information

General Information:

The Oxford Direct Vent, Model No. OXDV30SP, is a vented gas appliance listed to the ANSI standard Z21.88-2014 and CSA-2.33-2009 for Vented Room Heaters, and CSA 2.17-M91, Gas-Fired Appliances For Use at High Altitudes.

The installation of the Oxford Direct Vent/Natural Vent Room Heater must conform with local codes, or in the absence of local codes, with National Fuel Gas Code, ANSI Z223.1/NFPA 54 — latest edition and CSA B-149.1 Installation Code. (EXCEPTION: Do not derate this appliance for altitude. Maintain the manifold pressure at 3.5" w.c. for Natural Gas and 10.0" w.c. for LP gas at maximum input.)

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases unless a certified kit is used.

Installation and replacement of gas piping, gas utilization equipment or accessories, and repair and servicing of equipment shall be performed only by a qualified agency, preferably NFI or WETT (Canada) certified. The term "qualified agency" means any individual, firm, corporation, or company that either in person or through a representative is engaged in and is responsible for (a) installation or replacement of gas piping, or (b), the connection, installation, repair, or servicing of equipment, who is experienced in such work, familiar with all precautions required, and has complied with all the requirements of the authority having jurisdiction.

The Oxford Direct Vent/Natural Vent Room Heater should be inspected before use and at least annually by a qualified service agency. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean.

The Oxford Direct Vent/Natural Vent Room Heater and its individual shut-off valve must be disconnected from the gas supply piping during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).

The Oxford Direct Vent/Natural Vent Room Heater must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig.

'Direct Vent' describes a sealed combustion system in which incoming outside air for combustion and outgoing exhaust enter and exit through two separate concentric passages within the same sealed vent system. The system does not use room air to support combustion. The Direct Vent system permits the gas appliance to be vented directly to the outside atmosphere through the side of the house or vertically through the roof. Conventional venting systems (Natural Vent) take air from the room for combustion and vent the exhaust vertically through the roof to the atmosphere.

This appliance is approved for bedroom installations in the U.S. and Canada.

This appliance may be installed in an aftermarket* manufactured (mobile) home, where not prohibited by state or local codes.

WARNING: Operation of this heater when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death.

The Oxford Direct Vent/Natural Vent Room Heater, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code ANSI/NFPA 70, (latest edition), or of the current Canadian Electrical Code C22.1.

Due to high temperatures this appliance should be located out of traffic and away from furniture and draperies.

WARNING: This appliance is hot while in operation. Keep children, clothing, and furniture away. Contact may cause burns or ignition of combustible materials. Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the appliance.

Clothing or other flammable materials should not be placed on or near the appliance.

Any safety screen, glass or guard removed for servicing an appliance must be replaced prior to operating the appliance.

The appliance area must be kept clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

The flow of combustion and ventilation air must not be obstructed. The installation must include adequate accessibility and clearance for servicing and proper operation.

WARNING: Do not operate the Room Heater with the glass panel removed, cracked or broken. Replacement of the panel should be done by a licensed or qualified service person.

Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

Do not burn wood, trash or any other material for which this appliance was not designed. This appliance is designed to burn either natural gas or propane only.

This gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Verify proper operation after servicing.

Proposition 65 Warning: Fuels used in gas, woodburning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

California Health & Safety Code Sec. 25249.6

*** Aftermarket:** Completion of sale, nor for purpose of resale, from the manufacturer.

Requirements for the Commonwealth of Massachusetts

All gas fitting and installation of this heater shall only be done by a licensed gas fitter or licensed plumber.

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

Installation of Carbon Monoxide Detectors

At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hardwired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and ANSI/UL 2034 listed and IAS certified.

Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, **"GAS VENT DIRECTLY BELOW, KEEP CLEAR OF ALL OBSTRUCTIONS"**.

Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

California Safety Information

WARNING

This product and the fuels used to operate this product (liquid propane or natural gas), and the products of combustion of such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm. For more information go to: www.P65Warnings.ca.gov.

Exemptions

The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

- The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

Manufacturer Requirements:

Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

Gas Equipment Venting System NOT Provided

When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

Oxford Direct Vent / Natural Vent Dimensions

Refer to Figures 3 & 4 for Flue Collar Centerline Dimensions

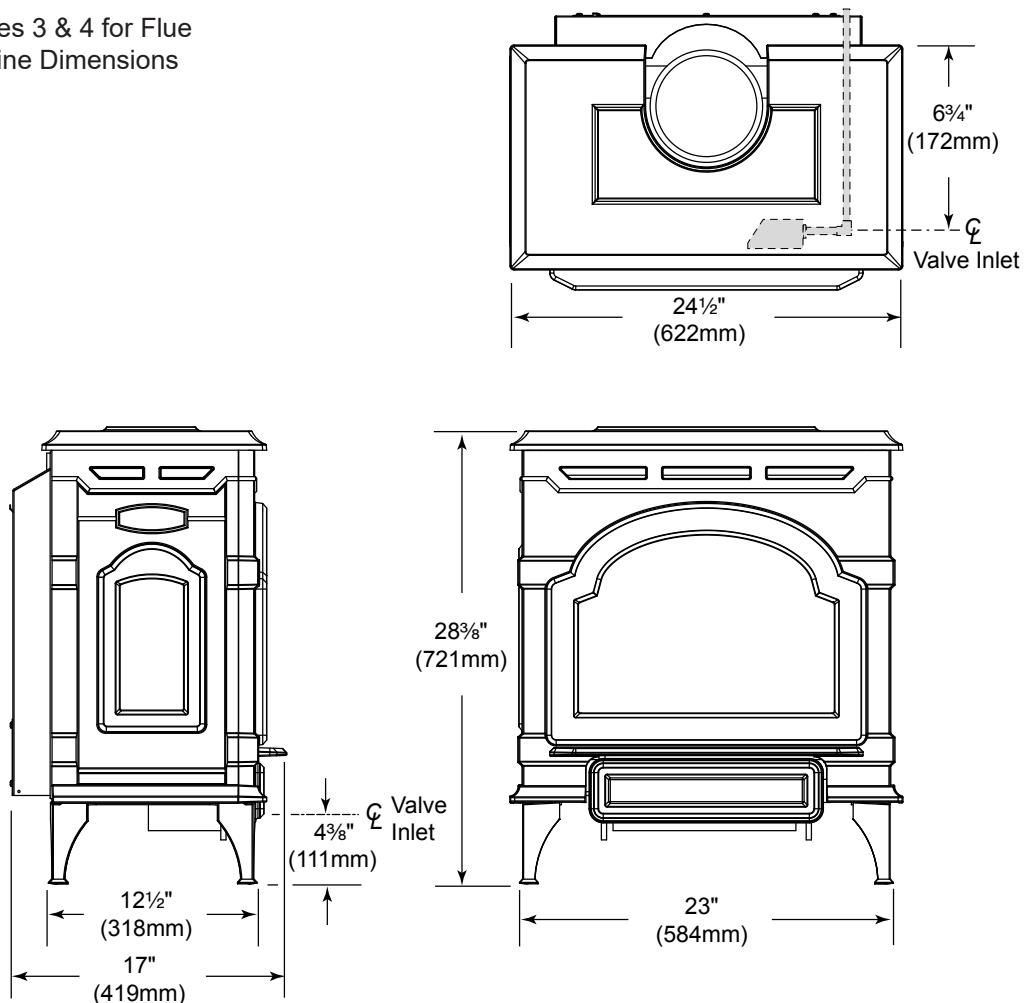


Figure 1 - Oxford dimensions.

Attention

The Oxford stove is shipped from the factory as a Direct Vent Gas Heater. This heater may be converted into a Natural Vent unit in the field. If a Natural Vent heater is desired, the FSDHAGSLP Draft Hood must be directly installed to the top of the unit according to the installation instructions.

When the stove is converted to Natural Vent, it uses 4" vent pipe. For aesthetic purposes the Hearth & Home Technologies direct vent system may be used up to the ceiling.

Installation:

Unpack the Stove

Using a 1/2" wrench, remove (4) lag bolts installed through the shipping brackets and into the skid. Using a 7/16" wrench, remove (2) 1/4-20 x 1/2" bolts holding the bracket onto the legs. Tilt one side of the unit up and remove the shipping bracket. Repeat previous steps to the opposite side.

Installation Requirements

The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54 - latest edition. (EXCEPTION: Do not derate this appliance for altitude. Maintain the manifold pressure at 3.5" w.c. for Natural Gas, and 10" w.c. for Propane).

In Canada, installation must be in accordance with the current CSA B-149.1 Installation Codes and/or local codes.

The installation should be done by a qualified service person who is familiar with the building codes and installation techniques appropriate for your area to accomplish a safe and effective installation.

Your dealer or your local gas supplier will be able to refer a qualified service person.



WARNING

Due to high temperatures, the HEATER should be located out of traffic and away from furniture and draperies.

The surface of the Heater is hot when it is in use. Young children should be watched carefully when they are in the same room when the Heater is in use, and they should be taught to avoid the hot surface. Keep any objects that can burn well away from the Heater, and observe the recommended clearances that follow.

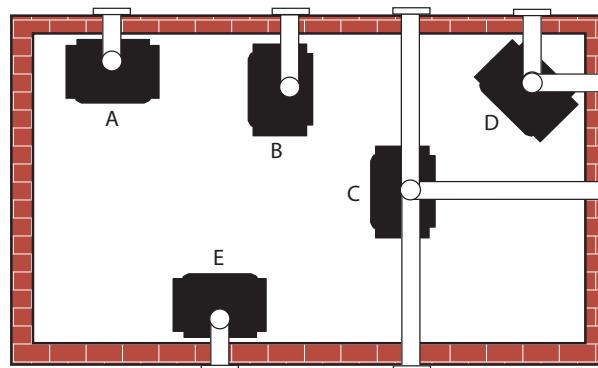
Locating the Stove:

In choosing a location for the stove, consider:

- The location of outside walls;
- Where additional heat is needed;
- Where family members gather most often;
- The vent system requirements.

NOTE: We do not recommend the use of wallpaper next to this stove. Over time, radiant heat may cause the wallpaper to shrink, or may adversely affect the binders in the wallpaper adhesive.

Direct Vent System Only



A. Flat on corner wall D. Cross Corner
B. Room Divider E. Flat on wall
C. Island

Figure 2 - Possible stove locations.

Clearance Requirements:

Minimum Clearances to Combustible Materials

Measure side clearances as shown in Figures 5 and 6 from the outer edge of the cast iron stove top. Measure rear clearances from the outermost surface of the steel rear skirt.

The heater is approved for installation into an alcove constructed of combustible materials to the dimensions and clearances shown on the next page.

The same clearances apply in a standard parallel installation.

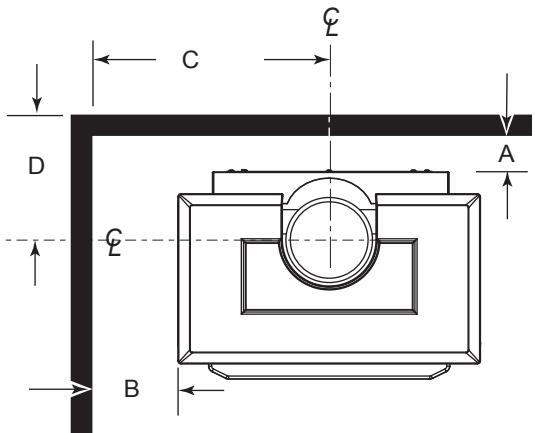


WARNING

Always maintain required clearances (air spaces) to nearby combustibles to prevent fire hazard. Do not fill air spaces with insulation. All venting components must maintain a 1" (25 mm) clearance to combustible materials. Maintain a 6" (150 mm) clearance when using a single wall pipe.

- The gas appliance and vent system must be vented directly to the outside of the building and never be attached to a chimney serving a separate solid fuel or gas-burning appliance. Each direct vent appliance must use its own separate vent system. Common vents are prohibited.
- Refer to the manufacturer's instructions included with the venting system for complete installation procedures.

**Parallel Installation:
Minimum Clearance and Flue Centerline
Direct Vent and Natural Vent**



Stove Clearances **A** 4" (102 mm)

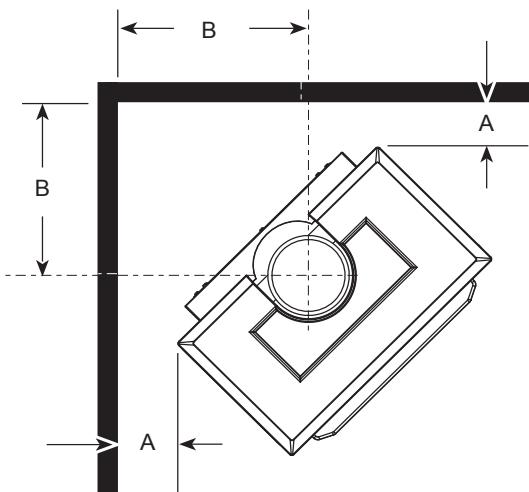
B 4" (102 mm)

Pipe Centerlines **C** 15-1/2" (395 mm)

D 9" (229 mm)

Figure 3 - Parallel installation, minimum back and side clearances and flue centerlines.

**Corner Installation:
Minimum Clearance and Flue Centerline
Direct Vent and Natural Vent**

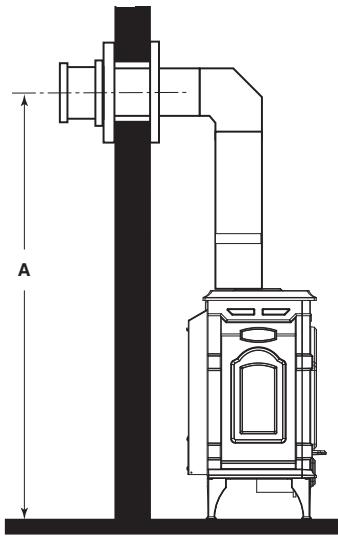


Stove Clearances **A** 4" (102 mm)

B 14-1/2" (370 mm)

Figure 4 - Corner installation, minimum corner clearances and flue centerline.

Wall Centerline from Floor



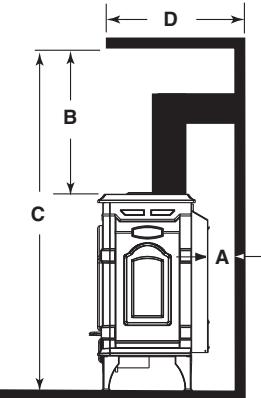
Effective Minimum (A)

Wall Thimble 57-1/2" (1461 mm) (HHT Pipe)

Centerline 53-1/2" (1359 mm) (Simpson DuraVent Pipe)

Figure 5 - Minimum wall thimble centerline.

Wall and Ceiling Clearances



A Rear Wall 4" (102 mm)

B Minimum Clearance 45-1/2" (1156 mm)

C Minimum Alcove Height 73-1/2" (1867 mm)

D Maximum Alcove Height 48" (1220 mm)

Sidewall Clearance 4" (120 mm)

Figure 6 - Dimensions and clearances to ceiling or alcove.

Hearth Requirements

The heater must be installed on rigid flooring. When the heater is installed directly on any combustible surface other than wood flooring, a metal or wood panel extending the full width and depth of the unit must be used as the hearth. There are no other hearth requirements.

Gas Specifications				
Model	Fuel	Gas Control	Max. Input BTU/h	Min. Input BTU/h
2465	Natural	Millivolt	28,000	20,000
2466	Propane	Millivolt	28,000	19,000

Weight: Fully assembled; 202 lbs.

Gas Inlet and Manifold Pressures		
	Natural	LP (Propane)
Inlet Minimum	5.5" w.c.	11.0" w.c.
Inlet Maximum	14.0" w.c.	14.0" w.c.
Manifold Pressure	3.5" w.c.	10.0" w.c.

Oxford Direct Vent/Natural Vent Certified to:

ANSI Z21.88 / CSA 2.33 Latest Edition

The installation of your stove must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code ANSI Z223.1/NFPA 54 - latest edition, or CSA B149.1 Installation code. (EXCEPTION: Do not derate this appliance for altitude up to 4,500 feet (1,370 m). Maintain the manifold pressure at 3.5" w.c. for Natural Gas and 10.0" w.c. for LP Gas.

High Elevations

Input ratings are shown in BTU per hour and are certified without deration for elevations up to 4,500 feet (1,370 m) above sea level.

For elevations above 4,500 feet (1,370 m) in USA, installations must be in accordance with the current ANSI Z223.1/NFPA 54 and/or local codes having jurisdiction.

In Canada, please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4,500 feet (1,370 m).



WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.

Horizontal Termination - Direct Vent ONLY

The vent must rise vertically a minimum of 24" (610 mm) off the top of the unit, before the first elbow. The horizontal run may extend up to 20' (6 m) and include a vertical rise of up to 40' (12 m). (Figure 7) Horizontal termination must also meet the criteria shown in Figures 9 through 11.

- Approved vent systems must terminate above and including the heavy line in Figure 7.
- Two 45° elbows may be substituted for each single 90° elbow.
- With a rise between 2' - 5', one 90° or two 45° elbows may be used.

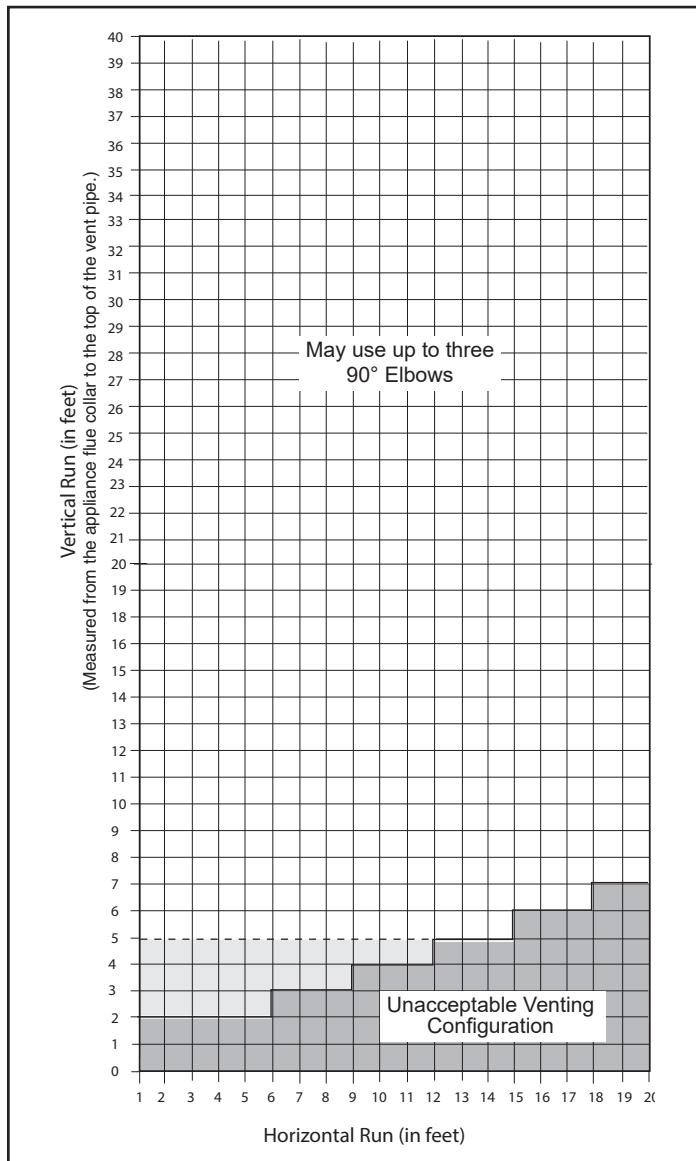


Figure 7 - Horizontal vent termination window.

Vertical Termination - Direct Vent ONLY

A vertical vent system must terminate no less than 8' (2.44 m) and no more than 40' (12 m) above the appliance flue collar. A 2-1/4" restrictor plate (supplied) must be used where specified in all vertically terminated vent systems. (Figure 8) **NOTE: The restrictor plate supplied with the vertical termination should be discarded. Install restrictor plate supplied with stove directly at stove outlet.** A vertically terminated vent system must also conform to the following criteria:

- No more than three 90° elbows may be used.
- Two 45° elbows may be substituted for one 90° elbow. No more than six elbows may be used.
- Vent must rise a minimum of 2 feet before offset is used.
- Termination height must conform to roof clearance as specified in Figure 9.

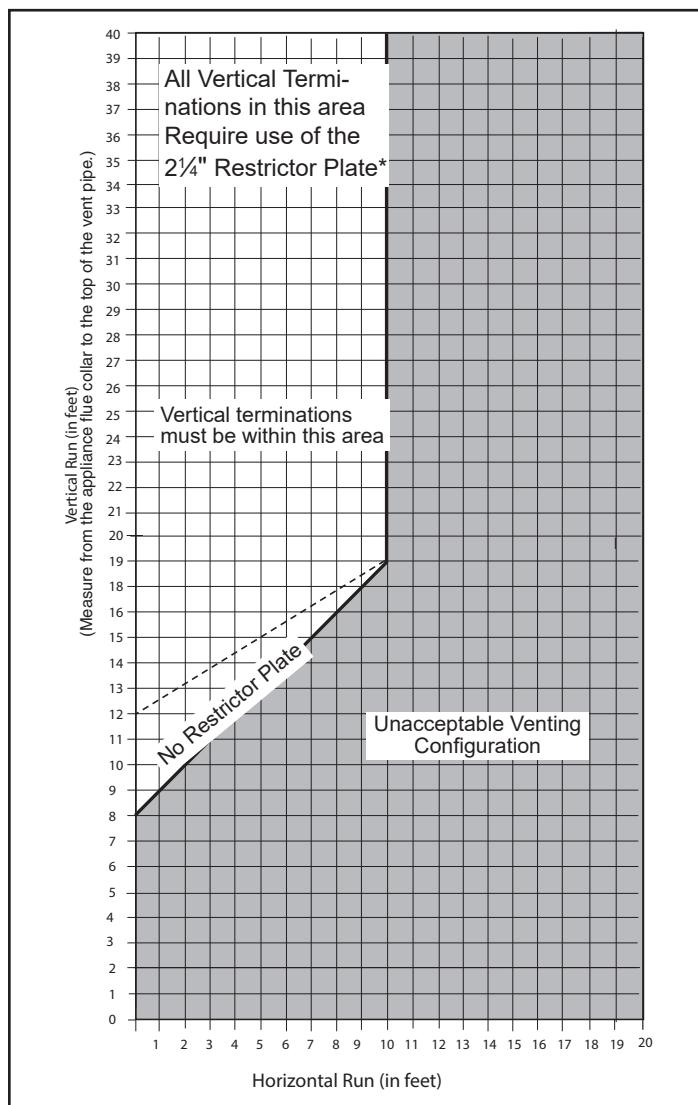


Figure 8 - Vertical vent termination window.

*The Restrictor Plate is used on Direct Vent Installations Only

Vent Termination Clearances

When planning the installation, consider the location of the vent terminal and clearances. Some of the most common clearances to keep in mind are shown in Figure 10.

Important: All vent clearances must be maintained. Check your vent termination clearances against Figures 9 through 11.

The vent should be placed so that people cannot be burned by accidentally touching the vent surfaces when the stove is operating.

The vent termination should be located where it cannot be damaged by such things as automobile doors, lawn mowers or snowblowers and it should be located away from areas where it could become blocked by snow, etc.

Some considerations are:

- Obstructions or impediments to venting.
- Nearby combustible materials that could come into contact with combustion exhaust gases.
- Other nearby openings {within 12" (305 mm)} through which exhaust gas could reenter the building.
- All vegetation within 3' (76 mm) that may interfere with the draft.

Other factors that influence where the installation will be sited include the location of outside walls, where additional heat may be desired in the home, where the family members gather most regularly, and perhaps most importantly, the distance limitations of the venting system.



IMPORTANT Direct Vent Only

- The horizontal termination must not be recessed into the exterior wall or siding.
- Horizontal vent runs must be level toward the vent termination.
- Clearances around the vent termination must be maintained.
- For installations using Simpson DuraVent pipe, parallel installations with minimum wall clearance have restricted access for connecting the Horizontal Vent Cap straps to the vent pipe. See the maker's instructions for recommended installation procedures.

Venting Termination Clearances

Your stove is approved to be vented either through the side wall, or vertical through the roof.

- **This unit does not require any opening for inspection of vent pipe.**
- **Only HHT and Duravent venting components specifically approved and labeled for this stove may be used.**
- **Minimum clearances between vent pipes and combustible materials is one (1") inch (25 mm), except where stated otherwise.**
- Venting terminals shall not be recessed into a wall or siding.
- Horizontal venting must be installed on a level plane without an inclining or declining slope.

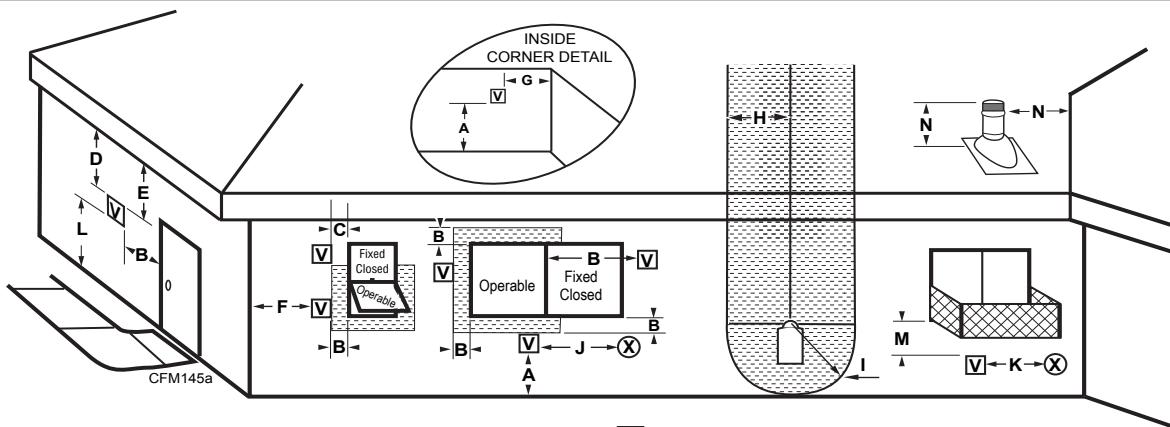
There must not be any obstruction such as bushes, garden sheds, fences, decks or utility buildings within 24" from the front of the termination hood.

Do not locate termination hood where excessive snow or ice build up may occur. Be sure to check vent termination area after snow falls, and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area.

Location of Vent Termination

It is imperative the vent termination be located observing the minimum clearances located on the following page.

General Venting Information - Termination Location



▀ VENT TERMINATION X AIR SUPPLY INLET ■ AREA WHERE TERMINAL IS NOT PERMITTED

		Canadian Installation ¹	US Installations ²
A	Clearance above grade, veranda, porch, deck or balcony	12" (30cm)	12" (30cm)
B	Clearance to a window or door that may be opened	6" (15cm) for appliance < 10,000 Btuh (3kW), 12" (30cm) for appliances > 10,000 Btuh (3kW) and < 100,000 Btuh (30kW), 36" (91cm) for appliances > 100,000 Btuh (30kW) appliances > 50,000 Btuh (15kW)	6" (15cm) for appliances < 10,000 Btuh (3kW), 9" (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12" (30cm) for appliances > 50,000 Btuh (15kW)
C	Clearance to permanently closed window	12" (305mm) recommend to prevent window condensation.	12" (305mm) recommend to prevent window condensation.
D	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (610mm) from the center line of the terminal	18" (458mm)	18" (458mm)
E	Clearance to unventilated soffit	12" (305mm)	12" (305mm)
F	Clearance to outside corner	see next page	see next page
G	Clearance to inside corner (see next page)	see next page	see next page
H	Clearance to each inside of center line extended above meter/regulator assembly	3' (91cm) within a height if 15' (5m) above the meter/regulator assembly	3' (91cm) within a height if 15' (5m) above the meter/regulator assembly
I	Clearance to service regulator vent outlet	3' (91cm)	3' (91cm)
J	Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliances	6" (15cm) for appliances < 10,000 Btuh (3kW), 12" (30cm) for appliances > 10,000 Btuh (3kW) and < 100,000 Btuh (30kW), 36" (91cm) for appliances > 100,000 Btuh (30kW)	6" (15cm) for appliances < 10,000 Btuh (3kW), 9" (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12" (30cm) for appliances > 50,000 Btuh (15kW)
K	Clearance to a mechanical air supply inlet	6' (1.83m)	3' (91cm) above if within 10' (3m) horizontally
L	Clearance above paved sidewalk or paved driveway located on public property	7' (2.13m)†	7' (2.13m)†
M	Clearance under veranda, porch, deck or balcony	12" (30cm)*	12" (30cm)*
N	Clearance above a roof shall extend a minimum of 24" (610mm) above the highest point when it passes through the roof surface, and any other obstruction within a horizontal distance of 18" (450mm).		

1 In accordance with the current CSA-B149 Installation Codes

2 In accordance with the current ANSI Z223.1/NFPA 54 National Fuel Gas Codes

† 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 2 sides beneath the floor:

NOTE:

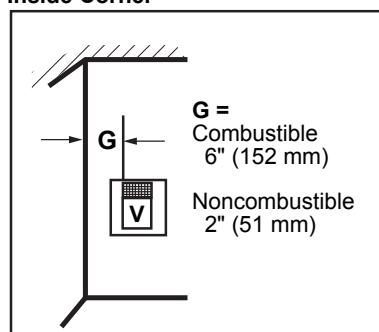
1. Local codes or regulations may require different clearances.
2. The special venting system used on Direct Vent appliances are certified as part of the appliance, with clearances tested and approved by the listing agency.
3. Hearth & Home Technologies assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.

Figure 9 - Vent termination clearances.

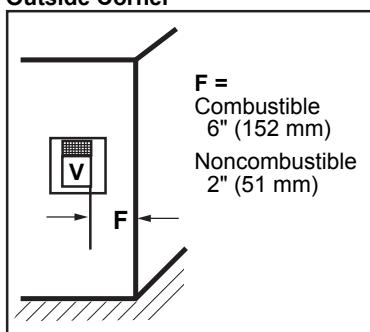
Termination Clearances

Termination clearances for buildings with combustible and noncombustible exteriors.

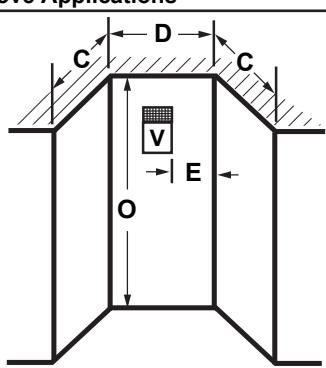
Inside Corner



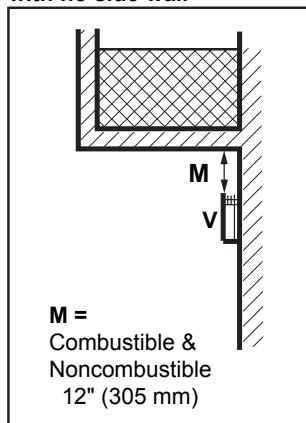
Outside Corner



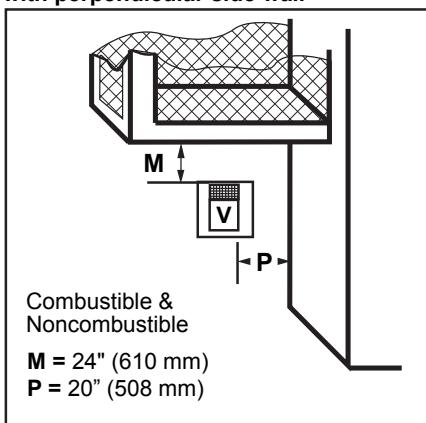
Alcove Applications*



Balcony - with no side wall



Balcony - with perpendicular side wall



E = Min. 6" (152 mm) for non-vinyl sidewalls
Min. 12" (305 mm) for vinyl sidewalls
O = 8' (2.4 m) Min.

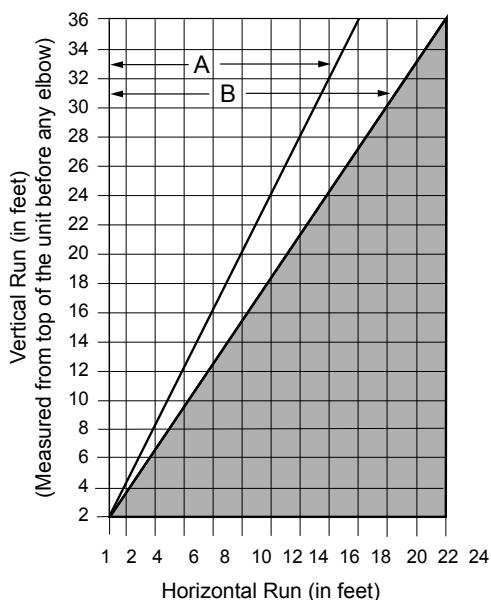
No. of Caps	D _{Min.}	C _{Max.}
1	3' (914 mm)	2 x D _{Actual}
2	6' (1.8 m)	1 x D _{Actual}
3	9' (2.7 m)	2/3 x D _{Actual}
4	12' (3.7 m)	1/2 x D _{Actual}

D_{Min.} = # of Termination caps x 3
C_{Max.} = (2 / # termination caps) x D_{Actual}

***NOTE:** Termination in an alcove space (spaces open only on one side and with an overhang) is permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. 1. There must be a 3' (914 mm) minimum between termination caps. 2. All mechanical air intakes within 10' (1 m) of a termination cap must be a minimum of 3' (914 mm) below the termination cap. 3. All gravity air intakes within 3' (914 mm) of a termination cap must be a minimum of 1' (305 mm) below the termination cap.

Figure 10 - Termination clearances.

Venting Requirements - Natural Vent Only



Venting Runs

NOTE: When venting straight vertical, without any elbow, a minimum of 8 ft. vertical is required off the top of the stove.

= Acceptable venting configuration

= Unacceptable venting configuration

A: Vertical installations up to 36 feet (12m) in height. Up to an 18 ft. horizontal vent run can be installed within the vent system using a maximum of two 90-degree elbows or four 45-degree elbows.

B: Vertical installations up to 36 feet (12m) in height. Up to a 24 ft. horizontal vent run can be installed within the vent system using a maximum of two 45-degree elbows.
(Ratio = 2/3, Hor./Vert.)

Figure 11 - Vent termination window - Natural Vent ONLY.

NOTE: When using the FSDHAGSLP, the restrictor plate supplied with the stove is not used.

Approved Vent System Components

The heater must be vented to the outdoors through an adjacent exterior wall or through the roof. The venting system must be comprised of the appropriate listed venting components specified on this page. These parts are available from DuraVent Corporation or your Hearth and Home Technologies Dealer.

See Figure 4 for dimensions relevant to the standard minimum-vent kits.

HHT Components*

SLP Horizontal Termination Kit (Termination Cap, SLP24-BK, SLP6-BK, SLP6A-BK, SLP90-BK, SLP-WT-BK & CCSLP)	SLP-SK-BK
Stove Adapter Kit (Includes 30' of 4" Flex, adapters, wall thimble, masonry and ZC flashing, 991DA Cap and Fasteners)	LINK-STOVE
Trapezoid Termination Kit (3-1/8" - 4-3/4")	SLP-TRAP1
Trapezoid Termination Kit (5-1/4" - 9-1/4")	SLP-TRAP2
Rear Vent Termination Kit	SLP-RVTK
Vertical Termination cap – High Wind (includes storm collar)	SLP-TVHW
Decorative Wall Thimble Cover	SLP-WT-BK
Decorative ceiling firestop – black	SLP-DCF-BK
Cathedral ceiling support – black	SLP-CCS-BK
4" (100mm) pipe length – black	SLP4-BK
6" (150mm) pipe length – black	SLP6-BK
12" Pipe length-black	SLP12-BK
24" Pipe length-black	SLP24-BK
36" (915mm) pipe length – black	SLP36-BK
48" Pipe length-black	SLP48-BK
3" - 6" (75 – 150mm) telescoping pipe extension – black	SLP6A-BK
3" - 12" telescoping pipe extension-black	SLP12A-BK
45 degree elbow-black	SLP45-BK
90 degree elbow-black	SLP90-BK
Freestanding Draft Hood Adapter	FSDHAGSLP
SL Snorkel Cap (Includes 1 pair of firestops)	SLK-SNKD

*CCSLP adapter is required when using HHT components.

DuraVent Components

Starter Pipe Assembly (incl. inner & outer sections)	46DVA-ADP
90° Elbow, Blk.	46DVA-E90B*
45° Elbow, Gal.	46DVA-E45
6" Straight, Blk.	46DVA-06B*
9" Straight, Blk.	46DVA-09B
11" – 14%" Adjustable Straight Section	46DVA-08AB
12" Straight	46DVA-12
24" Straight	46DVA-24B*
36" Straight	46DVA-36B
48" Straight	46DVA-48
Horizontal Vent Cap	46DVA-HC*
Wall Plate	46DVA-DC
Vinyl Siding Shield	46DVA-VSS
Snorkel Termination – 14"	46DVA-SNK14
Snorkel Termination – 36"	46DVA-SNK30
Wall Strap	46DVA-WS
Cathedral Ceiling Support Box	46DVA-CS
Storm Collar	46DVA-SC
Firestop Spacer	46DVA-FS
Flashing 0/12 - 6/12	46DVA-F6
Flashing 6/12 - 12/12	46DVA-F12
Wall Thimble	46DVA-WT
Wall Thimble Cover (Brass)	3PVP-TKV
Wall Firestop	46DVA-WFS
Attic Installation Shield	46DVA-IS
Co-Linear Vent Adapter	46DVA-GCL
Steel Chimney Conv. Kit A (6-5/8" - 8-5/8")	46DVA-KCA
Steel Chimney Conv. Kit B (6-5/8" - 10-1/2")	46DVA-KCB
Steel Chimney Conv. Kit C (6-5/8" – 13")	46DVA-KCC
Masonry Chimney Conversion Kit	46DVA-KMC
Vertical Termination Cap (High Wind)	46DVA-VCH
Vertical Termination Cap (Low Profile)	46DVA-VC

All DuraVent Straight vent pipe sections have a net length 1-1/2" (37mm) less than the nominal dimension; i.e., a 6" (152 mm) Straight pipe section has an effective length of 4-1/2" (115 mm).

Install the Optional Fan

If you are installing the optional convection Fan Kit #2767 (FK26), continue here. If you are not installing a Fan Kit, go to "Venting System Assembly".

1. The fan kit includes a Blower Assembly and a Rheostat Assembly, connected by a cable. (Figure 12) The Blower Assembly mounts to the bottom rear of the stove, and the Rheostat mounts to the valve cover plate. The assembly includes a 'snapstat' which automatically turns the fan On (or Off) above (or below) approximately 109°. The Rheostat also provides a range of fan speed settings from Off (which overrides the snapstat function) to High. Unpack and inspect the Blower assembly. Confirm that the fan spins freely.



WARNING

This appliance is equipped with a three-prong (grounded) 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.

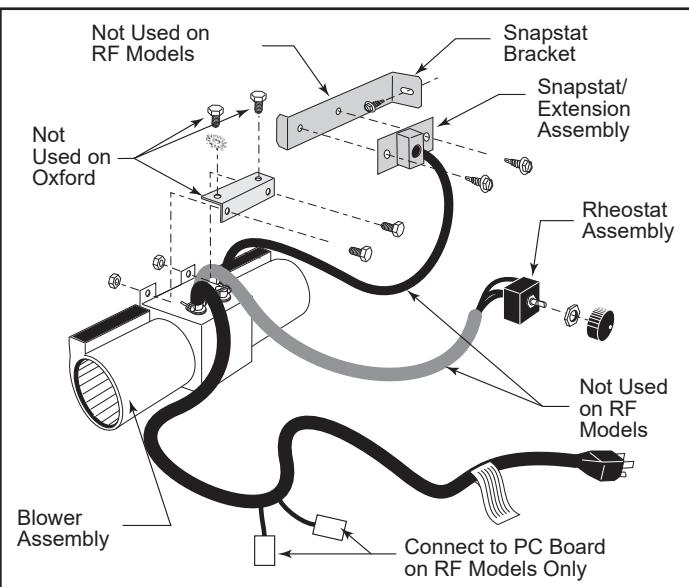


Figure 12 - Fan kit components.

2. Remove the rear skirt insert panel at the bottom of the Rear Skirt (Figure 13) and fasten the blower assembly to the firebox back with the two Phillips pan-head bolts originally installed in the firebox back. ('1', Figure 14)
3. Attach the snapstat assembly to the snapstat bracket with two sheet-metal screws. ('2', Figure 14) Attach the snapstat bracket to the stove with a hex-head bolt passing through the bracket and into the stove base. ('3', Figure 14)
4. The rheostat control switch attaches to the left side of the valve bracket at the front of the stove.

- Remove retaining nut from shaft of rheostat. (if preinstalled)
- Insert the rheostat through the hole in the back of the left side of the valve bracket, aligning the locator pin with the smaller hole in that bracket.
- Thread the retaining nut onto the shaft of the rheostat, tightening with a wrench. Do not overtighten.
- Attach the control knob to the rheostat shaft.
- Use the wire tie to secure the fan and rheostat wire harnesses together.

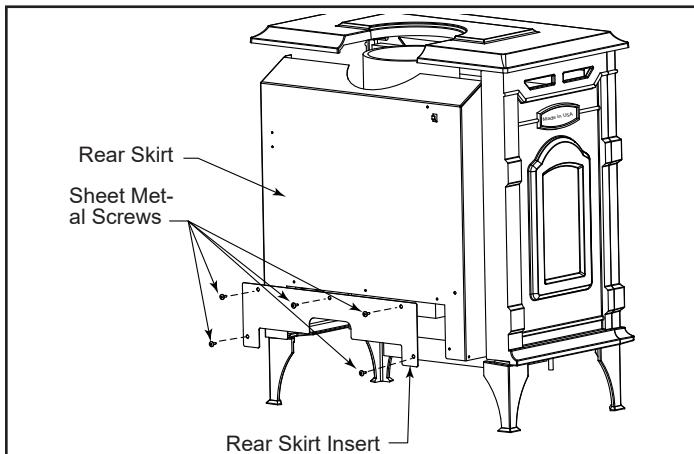


Figure 13 - Remove rear skirt insert.

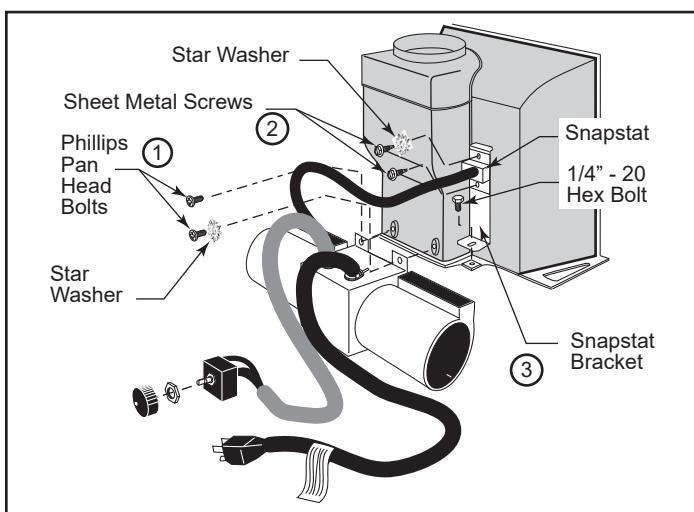


Figure 14 - Attach the fan assembly and the snapstat.

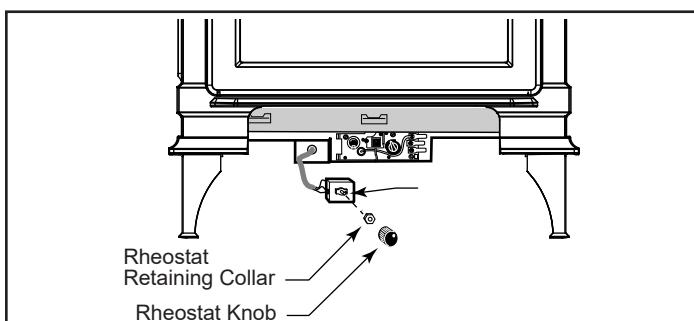


Figure 15 - Attach the fan rheostat.

Venting System Assembly - Direct Vent

For U.S. installations: The venting system must conform with local codes and/or the current National Fuel Gas Code, ANSI Z223.1/NFPA 54.

For Canadian installations: The venting system must conform to the current CSA B149.1 installation code.

Install the Vent Adapter Pipe

(HHT Vent Components)

- 1. Install the Restrictor Plate:** Consult the 'Vent Run Specifications' to determine whether the restrictor plate is needed. If so, put the restrictor plate in place within the inner flue collar as shown in Figure 16.

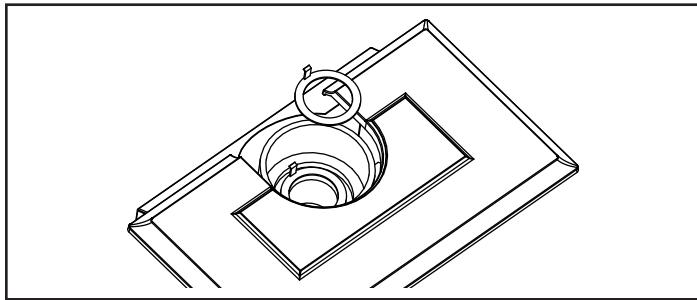


Figure 16 - Install the restrictor plate only if required for the venting configuration.

- 2. Attach Inner Starter Pipe**, (found in with the logset), to the next section of inner pipe.

- Run a bead of sealant about 1/2" from the upper end of the Inner starter pipe and join the two sections together.
- Drill three pilot holes into the Inner Starter and secure the assembly with three sheet metal screws. (Figure 17)

- 3. Dry fit the Outer pipe assembly** to the stove for the purpose of determining the center line of the pipe on the wall.

- Side Wall Terminations:** Dry fit the outer elbow with the vertical outer vent and confirm the centerline alignment with the wall thimble opening.

Remove the pipes and elbows before continuing with Step 4.

- 4. Attach the Inner Vent Assembly to the stove:**

- Run a bead of sealant around the bottom end of the starter pipe and attach the assembly to the stove using three 1/4-20 x 3/8" Phillips screws provided in the parts bag. (Figure 18)

- 5. Install the Outer Adapter Pipe:** Apply a 1/4" bead of cement around the inside wall of the pipe, about 1" from the end. Insert the pipe over the stove flue collar, keeping the vertical seam oriented to the back of the stove. Also, be sure to align holes on the pipe with the holes on the flue collar of the firebox. Fasten the pipe to the holes in the flue collar with the #12 x 1/2" sheet metal screws provided. (Figure 19)

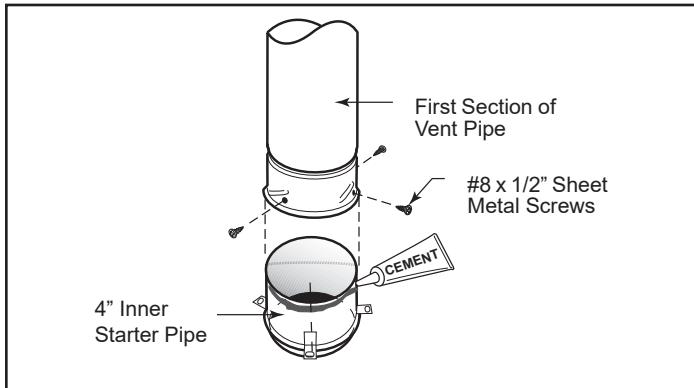


Figure 17 - Connect the inner starter with the next section of inner vent pipe.

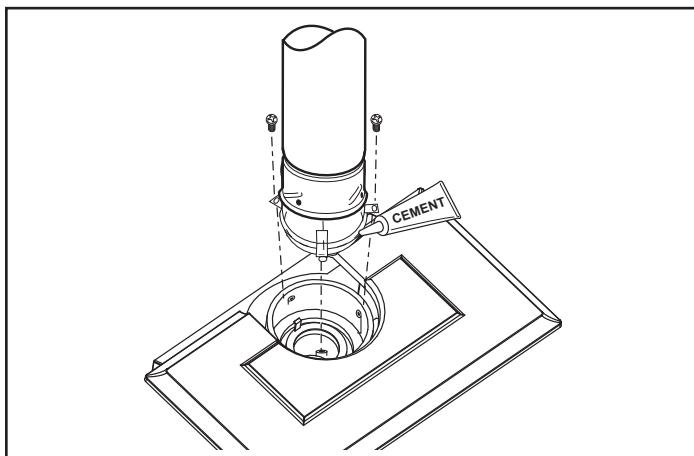


Figure 18 - Attach inner assembly to flue collar.

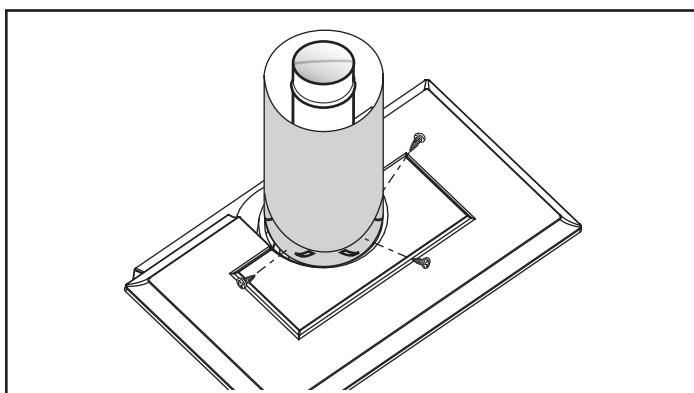


Figure 19 - Fasten outer pipe with #12 x 1/2" sheet metal screw.

Install the Vent Adapter Pipe (Simpson Dura-Vent Components)

- Install the Restrictor Plate:** Consult Figure 8 to determine whether the restrictor plate is needed. If so, place the restrictor plate into the inner flue collar. (Figure 16)
- Discard the inner starter pipe** shipped with the logset. Using the starter pipe assembly, slide the inner section out to allow access.
 - Run a bead of sealant around the bottom end of the starter pipe and attach the assembly to the stove using three 1/4-20 x 3/8" Phillips screws provided in the parts bag. (Figure 20)
- Install the Outer Adapter Pipe:** Apply a 1/4" bead of cement around the outside surface, about one inch from the crimped end. (Figure 21) Orient the vertical seam to the rear, and insert the crimped end of the outer pipe into the flue collar. Fasten with three sheet metal screws provided.

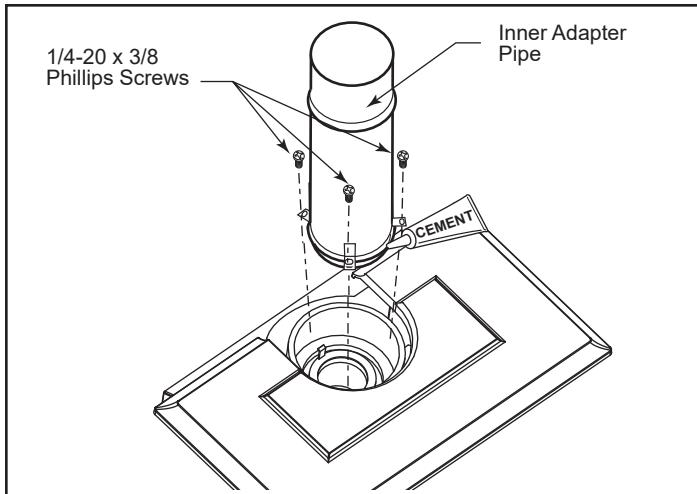


Figure 20 - Simpson DuraVent - install inner adapter pipe.

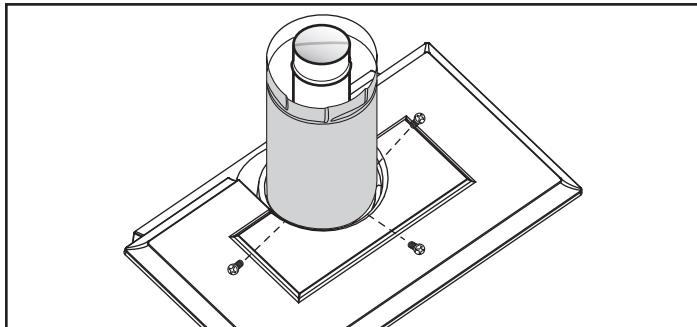


Figure 21 - Simpson DuraVent - install outer adapter pipe.

Side Wall Termination Assembly

- Locate the vent opening on the wall. Refer to Figure 5, to determine the opening centerline. It may be necessary to first position the stove and measure to find the hole location. Depending on whether the wall is made of combustible materials, cut the opening to the size shown in Figure 22. Combustible wall openings must be framed as shown in Figure 22.

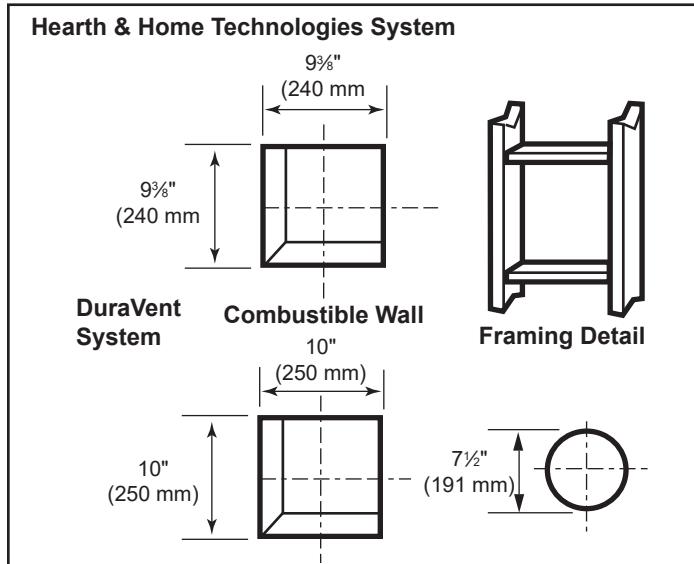


Figure 22 - Locate vent opening

- Measure the wall thickness and cut the wall sleeve sections to proper length (MAXIMUM 12"). Assemble the sleeve with the #8 sheet metal screws supplied. Attach the firestop plate to the sleeve end with the holes. (Figure 23) **NOTE:** The wall sleeve is required in combustible walls only.
- Install the Wall Firestop/Sleeve assembly into the wall cutout and fasten the firestop to the wall cutout framing members. (Figure 23)

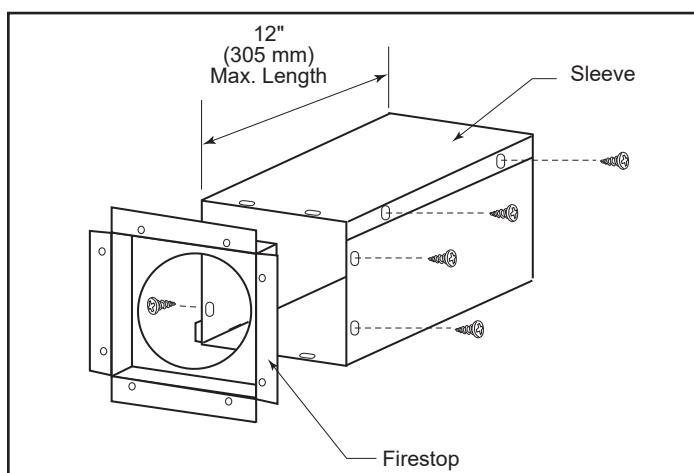


Figure 23 - Assemble the wall sleeve and firestop.

For DuraVent pipe only: Install vent pipe by aligning the locking system together, sliding the pipes together and twisting clockwise.

- Install 90° elbow. Twist lock as before.
- Slide the wall plate over horizontal run before attaching the horizontal run to the elbow. Fasten wall plate to wall.

4. For Hearth & Home Technologies Vent Pipe only: If necessary, measure to determine the vertical length (X) of pipe required from the adapter pipe to the wall cutout centerline, including a 2" (51mm) overlap at the joint. (Figure 24) use a hacksaw or tin snips to trim the pipe as needed.

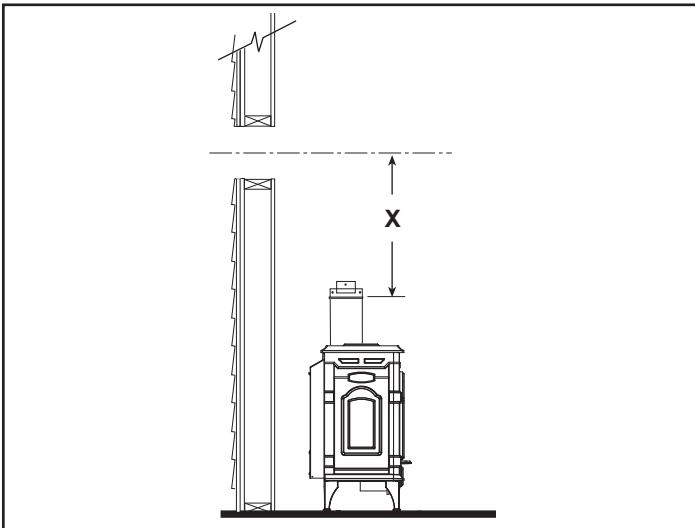


Figure 24 - Determine the vertical pipe length.

5. Install first the inner then the outer straight pipe section(s), trimmed end down, to the point of the elbow. Drill 3 holes through each joint and fasten with sheet metal screws.
6. Seal and install the elbow using 3 sheet metal screws at each joint.
7. Measure, and cut if needed, the appropriate length of pipe section needed to make the connection through the wall. Include a 2" overlap; i.e. from the elbow to the outside wall face, about 2" or the distance required if installing a second 90° elbow. (Figure 25)
8. Slip the wall plate and trim collar over the interior end of the horizontal pipe and install into the wall sleeve. Seal the joint inside the wall plate if needed to keep cold air from being drawn into the home.
9. Seal the ends and connect the horizontal pipe to the elbow. Fasten the wall plate to the pipe with three sheet metal screws. Slide the trim collar up against the wall plate to cover the screws. (Figure 26)

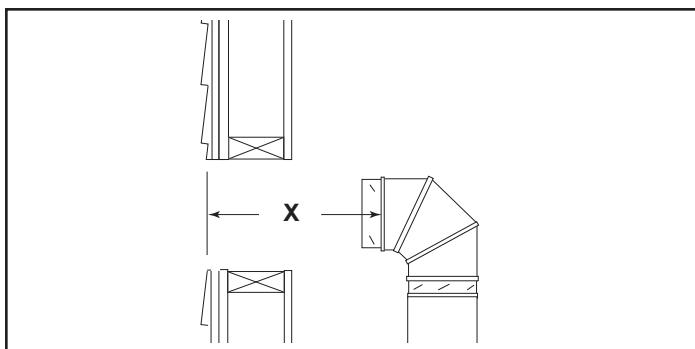


Figure 25 - Measure the horizontal length.

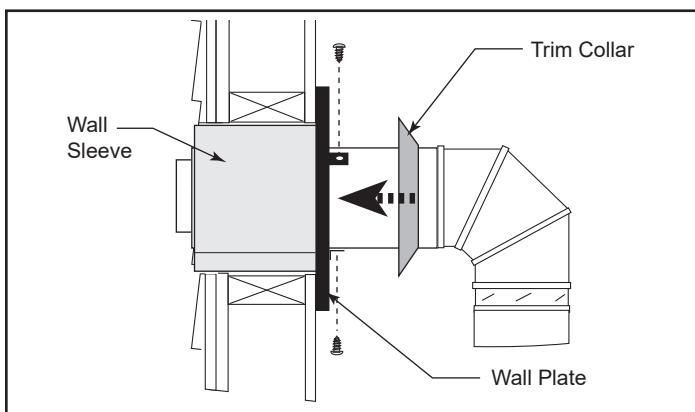


Figure 26 - Install the horizontal pipe and wall plate parts.

10. **For both Hearth & Home Technologies and DuraVent Systems:** Install the vent terminal. (Figure 27) Apply high temperature sealant one inch from the ends of the inner and outer collars. Guide the inner and outer vent termination collars into the adjacent pipes. Double check that the vent pipes overlap the collars by 2". Fasten the termination to the wall with the screws provided, and caulk the joint with weatherproof sealant.
11. **For Hearth & Home Technologies only:** Install Charcoal Gray Pipe Rings or Polished Brass Pipe Rings at pipe joints, if desired.

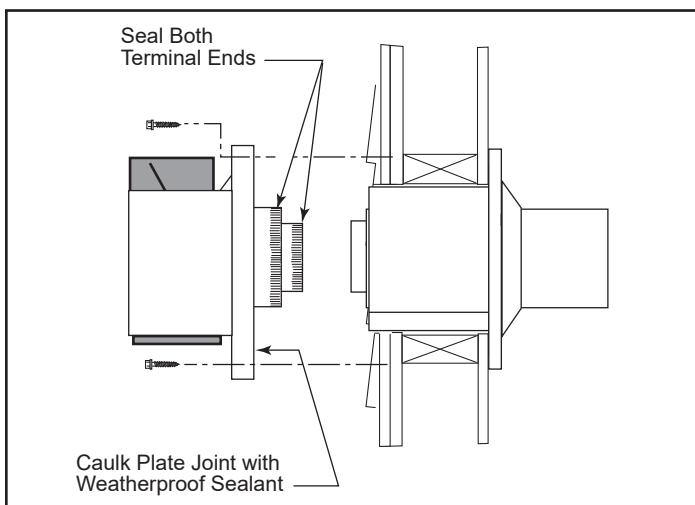


Figure 27 - Install the vent terminal.

Vent Termination Below Grade

Install Snorkel Kit when it is not possible to meet the required vent termination clearances of 12" (305 mm) above grade level. The snorkel kit will allow installation depth of down to 7" (178 mm) below grade level. The seven inches is measured from the center of the horizontal vent pipe as it penetrates the wall. **If the venting system is installed below grade, a window well must be installed with adequate and proper drainage. (Figure 28)**

NOTE: Be sure to maintain side wall clearances and vent run restrictions. Refer to Figures 3, 4, 7, and 8.

1. Establish the vent hole through the wall.
2. Remove soil to a depth of approximately 16" (406 mm) below the base of the snorkel. Install a window well (not supplied). Refill the hole with 12" (305 mm) of coarse gravel and maintain a clearance of at least 4" (102 mm) below the snorkel. (Figure 28)
3. Install the vent system as described in the **"Venting System Assembly"** section of this manual.
4. Be sure to make a watertight joint around the vent pipe joint at the inside and outside wall joints.
5. Apply high temperature sealant around the inner and outer snorkel collars. Join the pipes and fasten the snorkel termination to the wall with the screws provided.
6. Level the soil to maintain a 4" clearance below the snorkel.

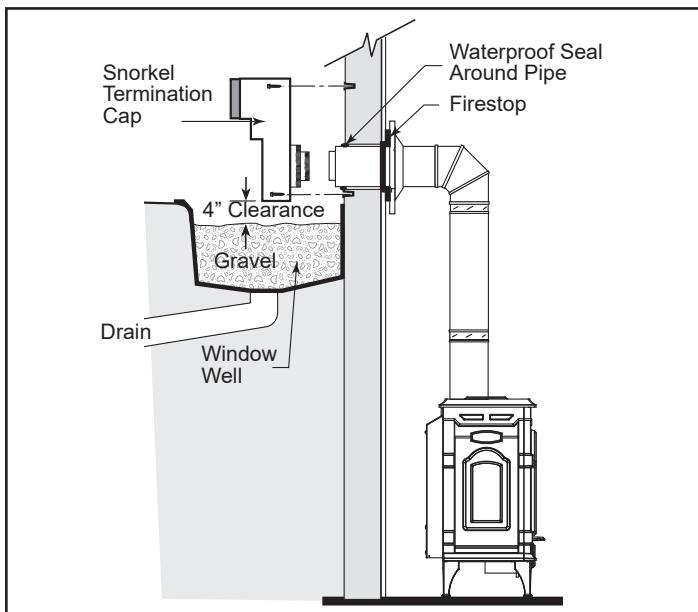


Figure 28 - Snorkel kit installation.

If the foundation is recessed, use extension brackets (not supplied) to fasten the lower portion of the snorkel. Fasten the brackets to the wall first, and then fasten to the snorkel with self-tapping #8 x 1/2" sheet metal screws. Extend the vent pipes out as far as the protruding wall face. (Figure 29)

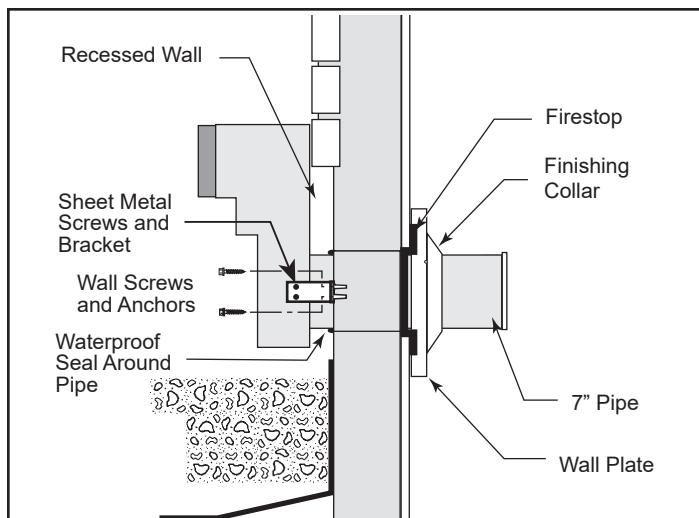


Figure 29 - Use extension brackets to mount snorkel against recessed wall.

Vertical (Through the Roof) Vent Assembly

Note that all vertically terminated installations must include the restrictor plate included with the stove. Refer to Figure 8.

Make certain the vent system conforms to all other requirements for vertical termination.

This installation will require you to first determine the roof pitch and use the appropriate vent components. Refer to Figures 8 and 9.

1. Locate the final position of the stove, observing all clearances for both the vent and the stove.
2. Plumb to the center of the inner (4") flue collar from the ceiling above, and mark that location.
3. **Cut the opening:**

Hearth & Home Technologies System:

9-3/8" x 9-3/8" (240 x 240 mm)

DuraVent System: 10" x 10" (254 x 254 mm)

4. Plumb any additional opening through the roof or other construction that may be needed. In all cases, the opening must provide a minimum of 1" (25 mm) clearance to the vent pipe.
5. Place the stove in its final position.
6. Install firestop(s) and Attic Insulation Shield as needed. (Figure 30) If there is a room above ceiling level, a firestop must be installed on both the bottom and top sides of the ceiling joists. If an attic is above ceiling level, an attic insulation shield must be installed.
7. Install the appropriate roof support and flashing, making certain that the upper flange of the flashing base is below the shingles. (Figure 31)

8. Install appropriate pipe sections until the vent run reaches above the flashing. The enlarged ends of the vent sections always face downward.
9. Install the storm collar and seal around the joints. (Figure 31)
10. Add additional vent lengths to achieve the proper overall height.
11. Apply cement to the inner and outer termination collars and install the terminal cap.

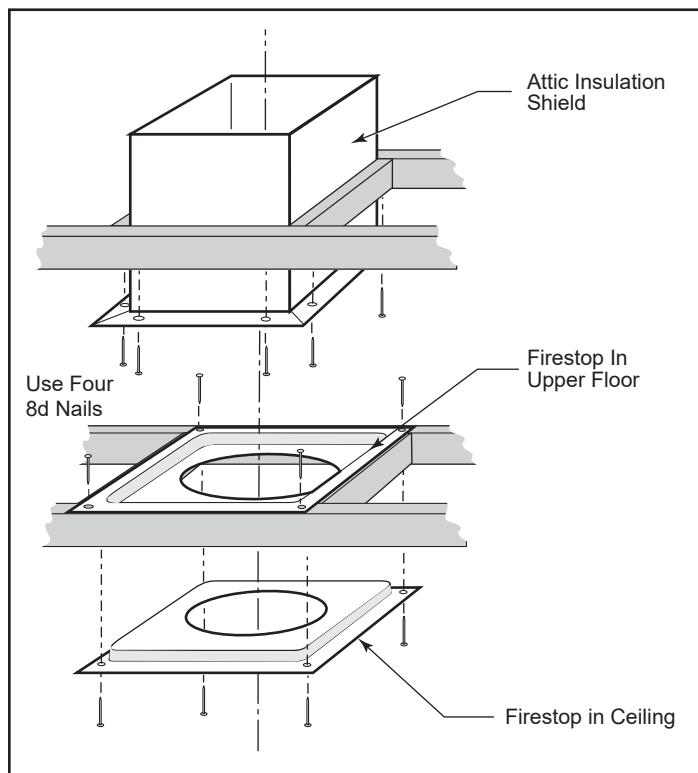


Figure 30 - Install firestops and attic insulation shield.

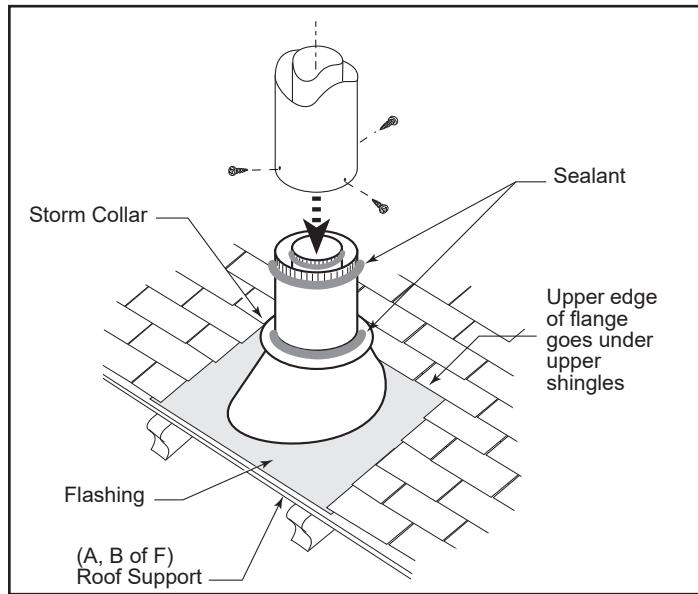


Figure 31 - Roof support and flashing.

Venting System Assembly - Natural Vent

General Information

The heater is shipped from the factory as a Direct Vent Heater. It may be converted to a Natural Vent heater by installing the Model FSDHAGSLP Draft Hood Adapter.

The heater is approved for installation as a Natural Vent. Hearth & Home Technologies Direct Vent pipe could be used directly after the Draft Hood Adapter up to the ceiling, then B-vent pipe must be used. Do not mix types of B-vent pipe; use components from one maker or the other. Follow the vent component maker's instructions exactly. The heater will also accept standard or enameled 7" (150 mm) diameter pipe, around the Type B venting, for decorative purposes only. (Figure 32)

NOTE: The restrictor plate supplied with the stove is not used for Natural Vent applications.

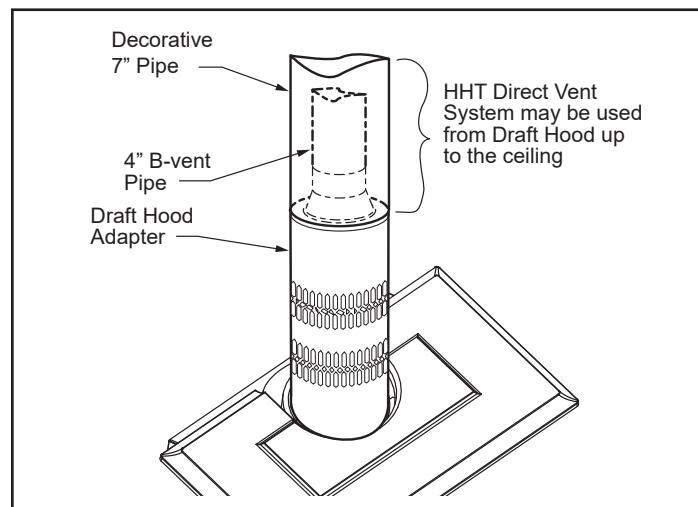


Figure 32 - Decorative 7" pipe may be fitted around the B-vent pipe.

The stove, when installed as a Natural vent heater, includes a vent safety switch. (Figure 63) Operating the stove when it is not connected to a properly installed and maintained venting system, or tampering with or disconnecting the vent safety switch, can result in carbon monoxide (CO) poisoning and possible death.

For U.S. installations: The venting system must conform with local codes and/or the current National Fuel Gas Code, ANSI Z22.1.

For Canadian installations: The venting system must conform to the current CSA B149.1 installation code.

Install the Vent Pipe

Apply a bead of sealant around bottom end of inner starter pipe (found in bag with logset) and attach to stove. Apply a bead of sealant around top of inner starter pipe and install the FSDHAGSLP Draft Hood according to Draft Hood instructions. (Figure 33)

Attach the first section of venting to the draft hood. Depending on the length of the individual venting sections and the lengths of the decorative pipe (if installed), you may need to slip the decorative pipe over the venting sections before attaching upper sections to lower ones. The sections of decorative pipe should be oriented with their seams (if any) toward the wall; sections usually do not need to be fastened at each joint, other than slip sections. If the layout includes a slip section, this should be the last section of pipe visible in the room, at the ceiling. Complete the venting according to the vent maker's instructions.

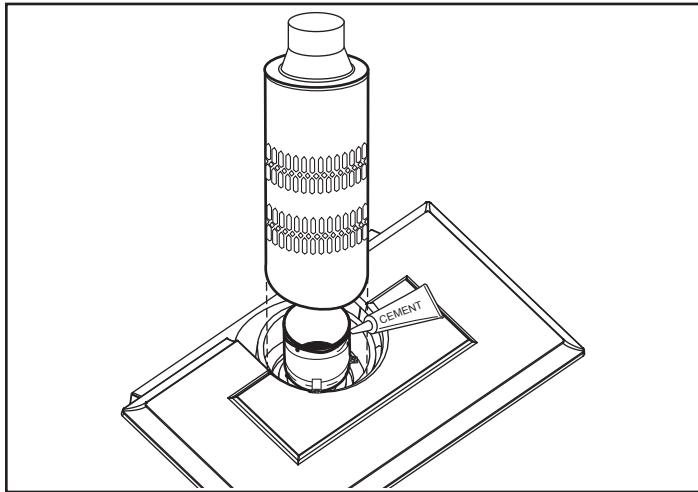


Figure 33 - Install draft hood adapter.

Install the Log Set

1. Remove the logs from their packaging, and inspect each piece for damage. **DO NOT INSTALL DAMAGED LOGS.**
2. Install the rear log by centering it to the rear of the firebox on the sheet metal shelf, Figure 34. The log should touch the back wall of the firebox when installed properly.
3. Place the right log by matching the hole on the underside of the right log with the pin located on top of the rear log, Figure 34. Set the front of the log on the burner and push toward the right side of the firebox, the front right corner of the log will touch the side wall of the firebox.
4. Place the left log by matching the hole on the underside of the left log with the pin located on top of the rear log, Figure 34. Set the front of the log on the burner and push toward the left side of the firebox, the front left corner of the log will touch the side wall of the firebox.
5. Lay the lava rocks in the open area of the burner in front of and between the decorative grate and the right and left logs. Use the lava rock to cover brackets on the burner, Figure 34.

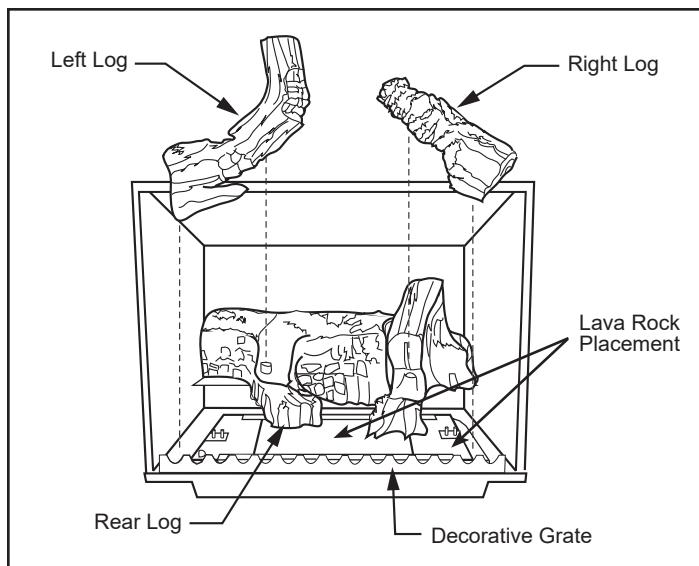


Figure 34 - Install the back, left and right logs.

Connect the Gas Supply Line

Check the Rating Plate attached by a steel cable to the firebox, to confirm that you have the appropriate firebox for the type of fuel to be used. The Oxford may be converted from one gas to another using the appropriate Fuel Conversion Kit.



CAUTION

This appliance should only be connected by a qualified gas technician. Test to confirm manifold pressures as specified below.

The heater and its individual shutoff valve must be disconnected from the gas supply piping during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).

The heater must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressure equal to or less than 1/2 psig.

There must be a gas shutoff between the stove and the supply.

In order to connect Natural Gas, use a fitting with 3/8" NPT nipple on the valve side and 1/2" natural gas supply line with an input of 28,000 BTUs at a manifold pressure of 3.5" and minimum inlet supply for adjustment of 5.5" w.c.

In order to connect Propane, use a fitting with 3/8" NPT nipple on the valve side and 1/2" propane gas supply line with an input of 28,000 BTUs at a manifold pressure of 10.0" and minimum inlet supply for adjustment of 11.0" w.c.

In the U.S.: Gas connection should be made in accordance with current National Fuel Gas Code, ANSI Z223.1/NFPA 54. Since some municipalities have additional local codes, be sure to consult your local authority.

In Canada: consult the local authority and CSA-B149.1 installation code.



CAUTION

Always check for gas leaks with a mild soap and water solution. Do not use an open flame for leak testing.

Light the pilot according to the directions before going to the next step.

Burner Information

The appliance must only use the gas specified on the rating plate, unless converted using a Fuel Conversion Kit. To convert from LP to Natural Gas use Kit #30005155. To convert from Natural Gas to LP use Kit #30005154.

Conversion instructions are provided with each kit.

This appliance should be connected to the gas supply only by a qualified gas service technician. Follow all local codes.

There must be a gas shut-off between the stove and the supply.

In order to connect Natural Gas, use a fitting with 3/8" NPT nipple on the valve side and 1/2" natural gas supply line with an input of 28,000 BTUs at a manifold pressure of 3.5" and minimum inlet supply for adjustment of 5.5" w.c.

In order to connect Propane, use a fitting with 3/8" NPT nipple on the valve side and 1/2" propane gas supply line with an input of 28,000 BTUs at a manifold pressure of 10.0" and minimum inlet supply for adjustment of 11.0" w.c.

Air Shutter Adjustment

The Oxford is shipped from the factory with the air shutter adjusted to the minimum allowed opening. Refer to Table 1. Based on the altitude where the stove is located, a shutter adjustment is acceptable to provide a mixed balance of flame color/glow. To adjust the shutter opening, follow the steps below.

NOTE: The air shutter may only be adjusted to a more open position. The factory setting is the minimum allowable air shutter opening. (Figures. 38 and 39)

Table 1. Air Shutter Adjustment
Minimum rear injector inlet openings.

Model	Natural Gas	LP
Direct Vent	1/2"	1/2"
Natural Vent	1/2"	1"

To adjust the air shutter, the following procedures should be followed:

1. Remove barrier screen first by pulling out and up. Remove stove front. Lift stove front up and then swing bottom out and away to disengage from the stove body. (Figure 36)
2. Swing open the swiveling latches at the top left and right corners of the glass frame. (Figure 59)

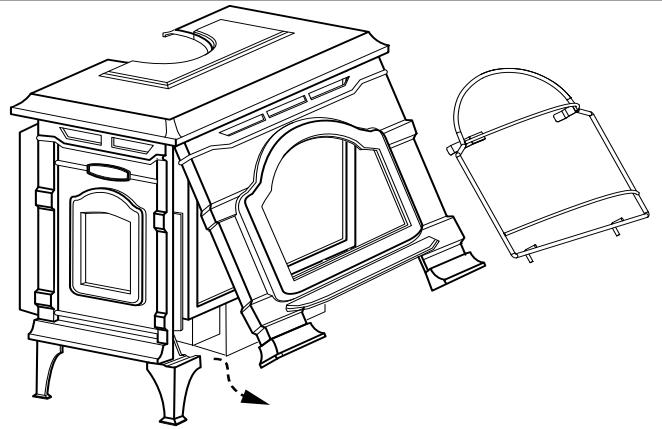


Figure 36 - Remove stove front.

3. Pull the top edge of the glass and frame assembly away from the firebox, and lift it off its supports on the bottom of the firebox face. Place the assembly out of the way on a flat, padded surface such as a counter protected by a towel.
4. Take the logset out of the firebox if previously installed.
5. Remove the rear log bracket by unfastening the screw. (Figure 37)
6. Remove the right and left log bracket assembly by unfastening the two screws which hold the burner in place. (Figure 37)
7. Hold the burner at the right hand side and lift to clear the right burner leg. Then pull to the right to clear the injectors on the left hand side.
8. The air shutter is located on the bottom of the burner to the left. (Figure 37) Unfasten the two nuts holding the shutter in place.

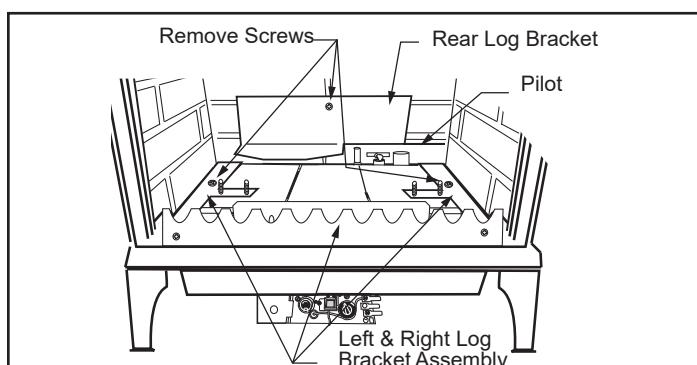


Figure 37 - Remove rear log bracket and left and right log bracket assembly.

The shutter may be adjusted between the factory adjusted 1/2" to fully open. Reassemble the shutter to allow the rear injector air inlet to close from the minimum 1/2" opening to fully open. (Figure 39) You may have to try more than once to find the correct air shutter opening for best results depending on your altitude.

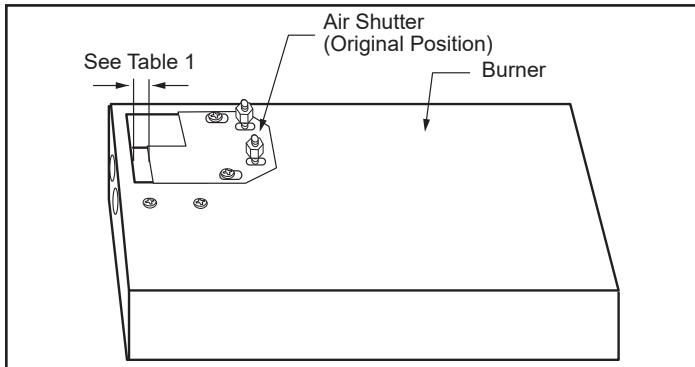


Figure 38 - Air shutter in original from-the-factory position.

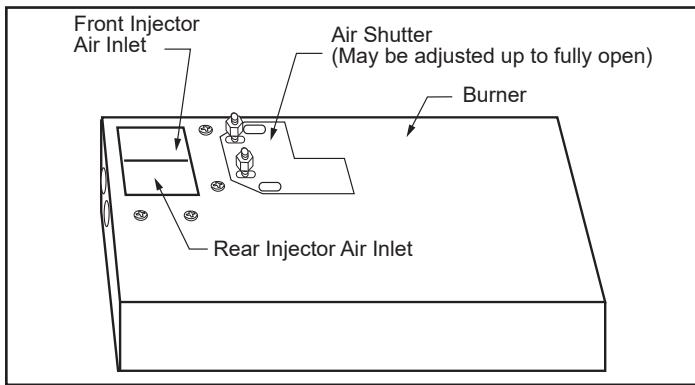


Figure 39 - Air shutter adjusted.

9. Refasten the two nuts and assemble the burner into the unit by sliding the burner in at an angle with the left side lower than the right side. Slide the left side onto the injectors. Lower the right hand side down into place. Make sure the burner is as far left as possible and the injector shoulders are inside the burner. **NOTE:** It is very critical to keep the left burner leg, which holds the injectors, at a 90° angle to the base. (Figure 40) This keeps the orifices aligned with tubes on the inside of the burner. Failure to do so could affect the flame appearance and performance of the unit.

10. Refasten the right and left log bracket assembly.
11. Refasten the rear log bracket.
12. Replace logs.
13. Replace glass and stove front.

Follow lighting instructions. Check flame color appearance. **NOTE:** Allow stove to burn for at least 1/2 hour to establish full flame color.

Should color need further adjustment, repeat steps 1 - 12 for air shutter adjustment.

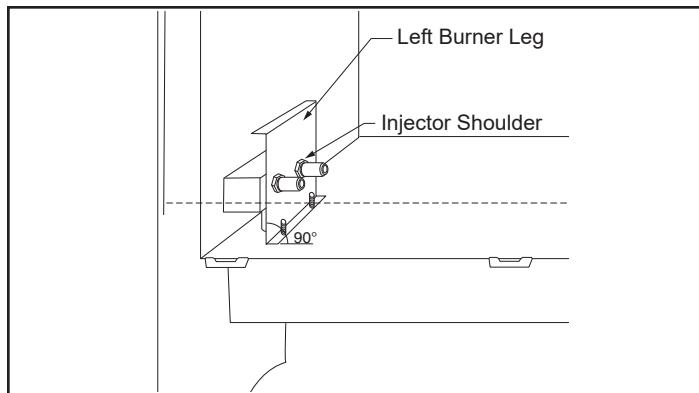


Figure 40 - Be sure to maintain 90° angle at left burner leg.

Complete the Assembly

- Open the swiveling latches (cams) on the top left and right corners of the glass frame.
- Position the glass and frame against the firebox by placing the bottom edge on the brackets on the bottom face of the firebox.
- Swing the assembly against the firebox, and close the latches firmly against the pins protruding from the firebox top.

Install ON/OFF Switch

The switch assembly parts are found in the parts bag.

1. Attach switch assembly to left rear side of stove shroud (when facing shroud) using two screws and existing holes in shroud. (Figure 41)
2. Run wires down back of stove, under bottom of rear shroud to valve.
3. Attach wires to valve terminals. (Figure 42)

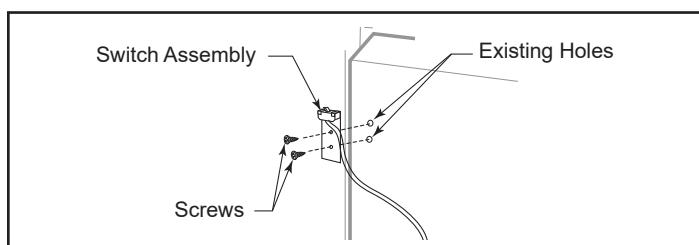


Figure 41 - Attach switch assembly to rear shroud.

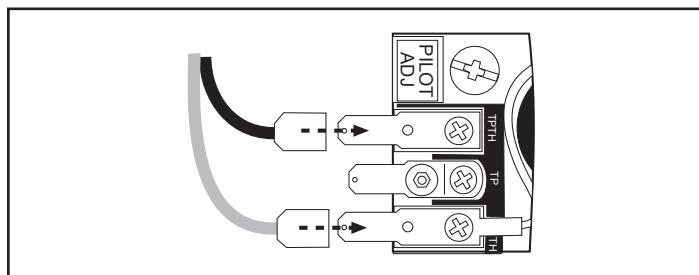


Figure 42 - Attach switch wires to valve.

Thermostat Connection (optional)

Use only a thermostat rated for 500 millivolts.

Check the table below for the appropriate gauge thermostat wire to use for the length of lead required in your installation.

Thermostat Wire / Gauge	Maximum Run
18	20 Feet
16	20-40 Feet
14	up to 60 Feet

1. Install the wall thermostat in the desired location and run the wires to the stove location. Terminate these leads with 1/4" female connectors.
2. Connect the thermostat wires to the valve. (Figure 42)

Install the Stove Front

Insert the handle stub into the hole in the front casting. Fasten in place with the 3/8" locking nut provided. (Figure 43)

The front attaches to the stove by four steel tabs that engage with corresponding cast ribs onto the sides and bottom of the stove body. Position the front about 3" down from stove top and lift the plate to engage the upper tabs behind the adjacent ribs on the sides. (Figure 44) Then lower the front into position, so the lower tabs engage with the corresponding ribs at the bottom.

When properly installed, the bottom of the stove front cannot be pulled away from the sides without also lifting it.

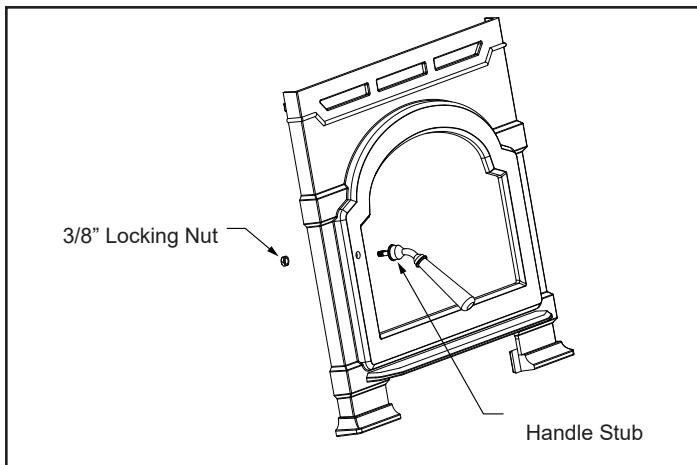


Figure 43 - Insert handle stub into hole in front. Secure with 3/8" locking nut.

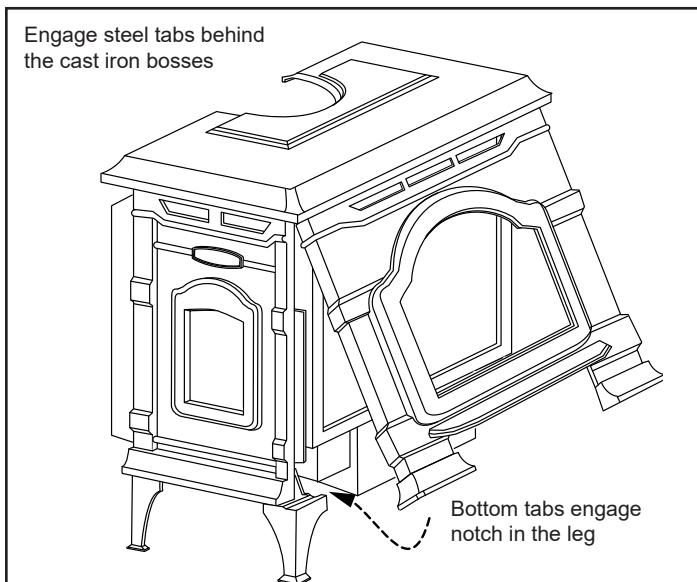


Figure 44 - Install the - front plate.



CERTIFIED SAFETY BARRIER

Safety Barrier Installation Instructions

NOTE: A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at risk individuals. If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.* Any safety screen, guard, or barrier removed for servicing the appliance must be replaced prior to operating the appliance.

* See parts list for model number.

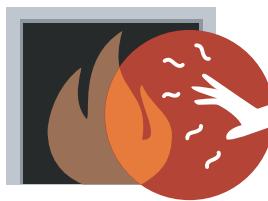
The safety barrier has been designed to work with the doors open or closed.

1. Remove screen from packaging.
2. Place the two bottom hooks over the bottom edge of the stove opening. *Figure 45*
3. Press the screen against the stove snapping the two spring fingers under the lattice until the screen fits securely in place.

NOTICE: It is the responsibility of the installer to ensure the barrier is affixed to the stove at the time of installation.



DANGER



HOT GLASS WILL
CAUSE BURNS.

DO NOT TOUCH GLASS
UNTIL COOLED.

NEVER ALLOW CHILDREN
TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at risk individuals.

20306543



WARNING

The safety screen barrier must be installed after the glass front is in place. It is NOT a replacement for the glass and the unit must NOT be operated without the glass in place.

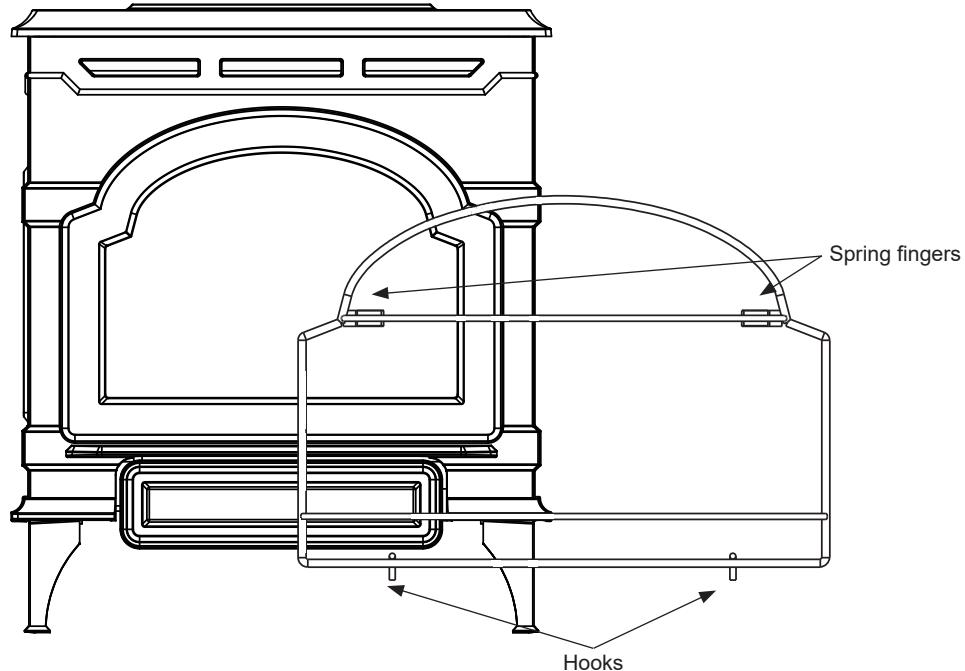


Figure 45 - Safety Barrier Installation

Operation

Your First Fire

Read these instructions carefully and familiarize yourself with the burner controls. Locate the pilot assembly, Figure 46.

During the first fire, it is not unusual to smell some odor associated with new logs, paint and metal being heated. Odors should dissipate within an hour or so, however, you can open a window to provide fresh air to alleviate the condition.



CAUTION

Odors and vapors released during initial operation

- Curing of high temperature paint
- Open windows for air circulation

Odors may be irritating to sensitive individuals.

Pilot and Burner Inspection

Each time you light your heater check that the pilot flame and burner flame patterns are as shown in Figure 48. If flame patterns are incorrect, turn the heater off. Contact your dealer or a qualified gas technician for assistance. Do not operate the heater until the pilot flame is correct.

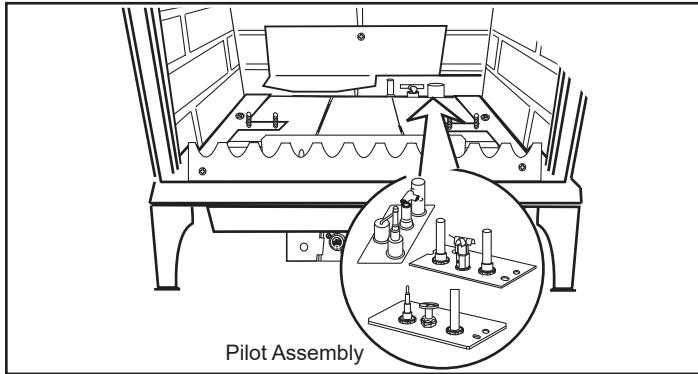


Figure 46 - Pilot assembly location.

Flame & Temperature Adjustment

For stoves equipped with HI/LO valves, flame adjustment is accomplished by rotating the HI/LO adjustment knob located near the center of the gas control valve. (Figure 47)



Figure 47 - Flame adjustment knob for Honeywell valve.

Flame Characteristics

It is important to periodically perform a visual check of the pilot and the burner flames. Compare them to Figure 48. If any of the flames appear abnormal, call a service person.

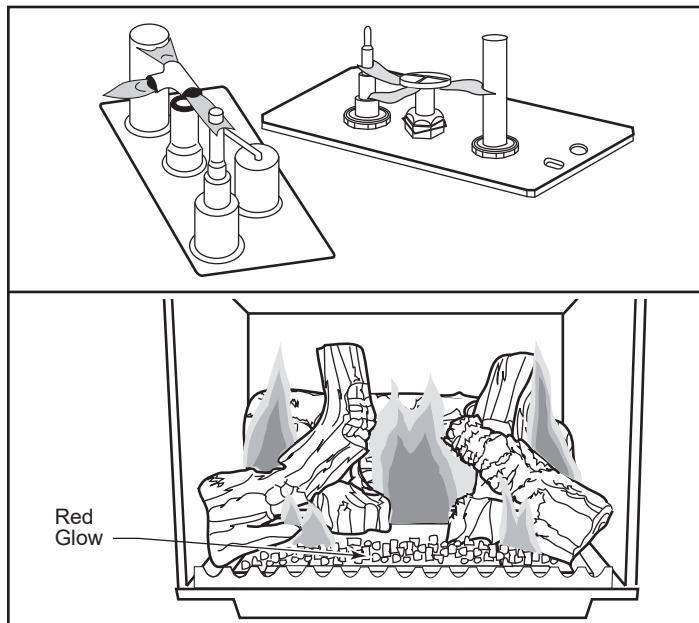


Figure 48 - Correct pilot and burner flame patterns.

Lighting and Operating Instructions

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This heater has a pilot which must be lit manually. When lighting the pilot follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the heater area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any fireplace
- Do not touch any electric switch
- Do not use any phone in your building
- Immediately call your gas supplier from a neighbor's phone.

Follow the gas supplier's instructions.

- If you cannot reach your gas supplier, call the Fire Department

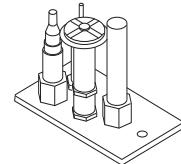
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Applying force or any attempted repair may result in a fire or explosion.
- D. Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.

Lighting Instructions

1. **STOP!** Read the safety information above.
2. Turn off all electrical power to the fireplace.
3. Turn the ON/OFF switch to "OFF" position, set the remote to OFF or set thermostat to lowest level.
4. Open control access panel.
5. Push in gas control knob slightly and turn clockwise ↘ to "OFF".



10. Push the control knob all the way in and hold. Immediately light the pilot by repeatedly depressing the piezo spark ignitor until a flame appears. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.



6. Remove glass door before lighting pilot. (See Glass Frame Removal section).
7. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you do not smell gas, go to the next step.
8. Visibly locate pilot by the main burner.
9. Turn knob on gas control counterclockwise ↘ to "PILOT".

- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If after several tries, the pilot will not stay lit, turn the gas control knob to "OFF" and call your service technician or gas supplier.

11. Replace glass door.
12. Turn gas control knob to "ON" position.
13. Turn the ON/OFF switch to "ON" position or set thermostat to desired setting.
14. Turn on all electrical power to the fireplace.

To Turn Off Gas To Heater

1. Turn the ON/OFF switch to Off position or set the thermostat to lowest setting.
2. Turn off all electric power to the fireplace if service is to be performed.
3. Open control access panel.
4. Push in gas control knob slightly and turn clockwise ↗ to "OFF". Do not force.
5. Close control access panel.

Troubleshooting the Gas Control System

SIT NOVA 820 MILLIVOLT VALVE

NOTE: Before trouble shooting the gas control system, be sure external gas shut off is in the "On" position.

Symptom	Possible Cause	Corrective Action
1. Spark ignitor will not light	A. Defective or misaligned electrode at pilot.	Using a match, light pilot. If pilot lights, turn off pilot and push the red button again. If pilot will not light - check gap at electrode and pilot-should be 1/8" to have a strong spark.
	B. Defective ignitor (Push Button)	With the control knob in the pilot position, push the control knob all the way and hold. Check for spark at electrode and pilot. If no spark to pilot, and electrode wire is properly connected, replace the battery in the ignitor module and try again. Refer to Maintenance Section. If the problem still exists, replace the ignitor module box.
2. Pilot will not stay lit after carefully following lighting instructions	A. Defective pilot generator (thermocouple), remote wall switch	Check pilot flame. Must impinge on thermocouple/thermopile. NOTE: This pilot burner assembly utilizes both a thermocouple and a thermopile. The thermocouple operates the main valve operation (On and Off). Clean and or adjust pilot for maximum flame impingement on thermopile and thermocouple.
	B. Defective automatic valve	Turn valve knob to "Pilot". Maintain flow to pilot; millivolt meter should read greater than 10mV. If the reading is okay and the pilot does not stay on, replace the gas valve. NOTE: An interrupter block (not supplied) must be used to conduct this test.
3. Pilot burning, no gas to main burner	A. Wall switch or wires defective	Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch, if burner comes on, replace defective wall switch.. If okay, jumper wires across wall switch wires at valve, if burner comes on, wires are faulty or connections are bad.
	B. Thermopile may not be generating sufficient millivoltage	<ol style="list-style-type: none"> 1. Be sure wire connections form thermopile at gas valve terminals are tight and thermopile is fully inserted into pilot bracket. 2. One of the wall switch wires may be grounded. Remove wall switch wires from valve terminals if pilot now stays lit, trace wall switch wiring for ground. May be grounded to fireplace or gas supply. 3. Check thermopile with millivolt meter. Take reading at thermopile terminals of gas valve. Should read 250-300 millivolts (minimum 150) while holding valve knob depressed in pilot position and wall switch "Off". Replace faulty thermopile if reading is below specified minimum
	C. Plugged burner orifice	Check burner orifices for debris and remove.
	D. Defective automatic valve operator	Turn valve knob to "On", place wall switch to "On" millivolt meter should read greater than 150mV. If the reading is okay and the burner does not come on, replace the gas valve.
4. Frequent pilot outage problem	A. Pilot flame may be too low or blowing (high) causing the pilot safety to drop out	Clean and/or adjust pilot flame for maximum flame impingement on thermopile and thermocouple.
	B. Possible blockage of the vent terminal	Check the vent terminal for blockage (recycling the flue gases).

Fuel Conversion Instructions

WARNING! This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

CAUTION: The gas supply shall be shut off prior to disconnecting the electrical power, before proceeding with the conversion.

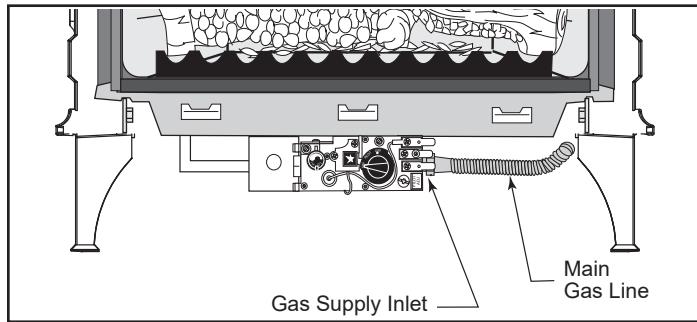


Figure 49 - Attach the gas line to the left side of the valve.

Conversion Precautions

Before proceeding, turn control knob on valve to OFF and turn gas supply OFF. Turn OFF any electricity that may be going to the appliance.

Conversion Procedure

1. Remove stove front. Lift stove front up and then swing bottom out and away to disengage from the stove body. (Figure 59)
2. Swing open the swiveling latches at the top left and right corners of the glass frame. (Figure 59)
3. Pull the top edge of the glass and frame assembly away from the firebox face. Place the assembly out of the way on a flat, padded surface such as a counter protected by a towel.
4. Remove the logset from the firebox.
5. Remove the rear log bracket by unfastening the screw. (Figure 50)
6. Remove the right and left log bracket assembly by unfastening the two screws which hold the burner in place. (Figure 50)
7. Hold the burner at the right hand side and lift to clear the right burner leg. Then pull to the right to clear the injectors on the left hand side.

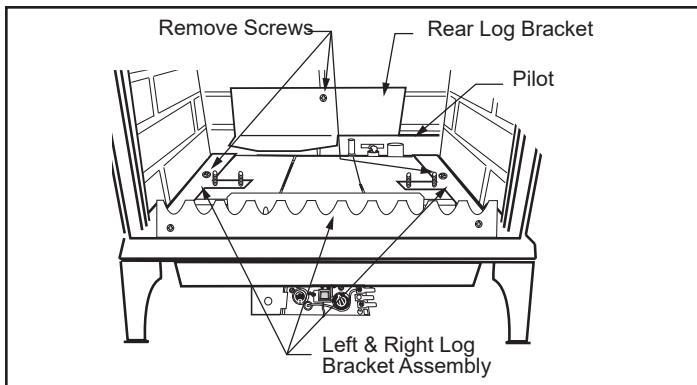


Figure 50 - Remove rear log bracket and left and right log bracket assembly.

8. Remove injector orifices from left burner leg using 1/2" wrench. (Figure 55)
9. Install conversion orifices. (Refer to Table 2)

SIT 820 Valve

1. Using TORX T20 bit, remove and discard the three (3) pressure regulator mounting screws (A), pressure regulator tower (B) and the spring and diaphragm assembly (C). (Figure 51)
2. Insure the rubber gasket (D) is properly positioned and install the new HI/LO pressure regulator assembly to the valve using the new screws (E) supplied with the kit. Tighten the screws securely. (Ref. torque = 25 in/lb) (Figure 52)
3. Install the enclosed conversion label (F) to the valve body where it can easily be seen. (Figure 52)

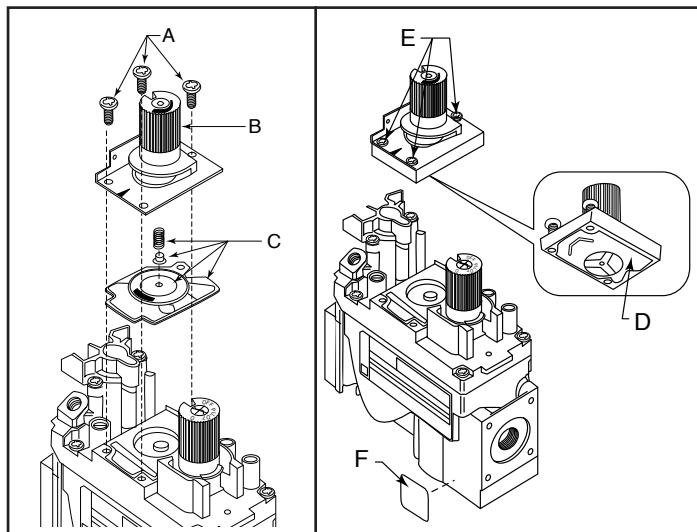


Figure 51 - Remove mounting screws, pressure regulator tower and spring and diaphragm assembly.

Figure 52 - Replace regulator.

Pilot Orifice Conversion

1. Locate pilot. (Figure 50)

2. Replace pilot orifice.

Pilot Type 1

- Remove pilot hood by lifting up. (Figure 53) Do not remove snap ring to remove pilot hood. **NOTE:** It is not necessary to remove the pilot tube for conversion.
- Remove pilot orifice with allen wrench. (Figure 54)
- Install the conversion orifice.
- Reinstall pilot hood. Be sure to align hood with index tab.

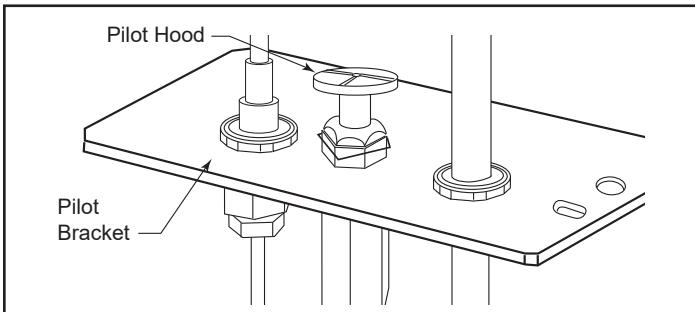


Figure 53 - Remove pilot hood.

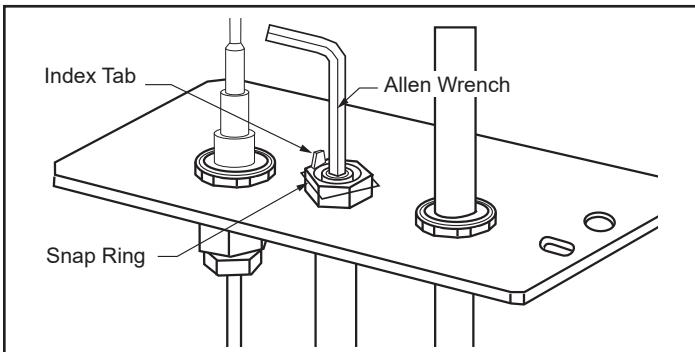


Figure 54 - Remove pilot orifice.

Pilot type 2

- Loosen pilot hood turning counterclockwise using a 7/16" wrench. (Figure 55) **NOTE:** You may use penetrating oil to prevent pilot hood threads from seizing up.
- Remove pilot orifice with needle-nose pliers. (Figure 56) **NOTE:** Use a wrench to hold pilot tube in place while removing the orifice.
- Install the conversion orifice.
- Reinstall pilot hood and tighten until mark on pilot hood aligns with mark on pilot bracket.

NOTE: Be sure burner leg remains at a 90° angle to firebox base after conversion.

21. Replace burner. Slide the burner in at an angle with left side lower than the right side. Slide the left side onto the injectors, making sure the burner leg remains at a 90° angle to the base. Lower the right hand side down in to place. Make sure the burner is as far left as possible and the injector shoulders are inside the burner.

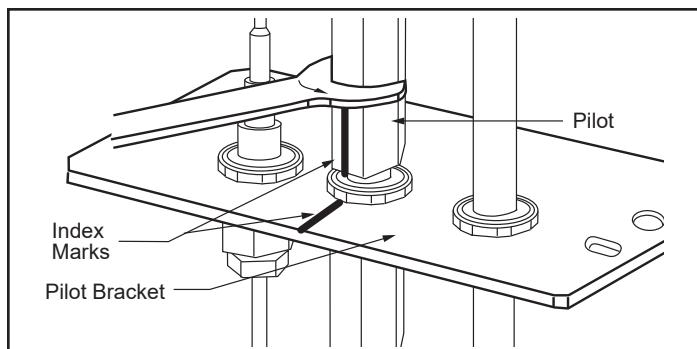


Figure 55 - Remove pilot hood. (Your pilot may have a different appearance).

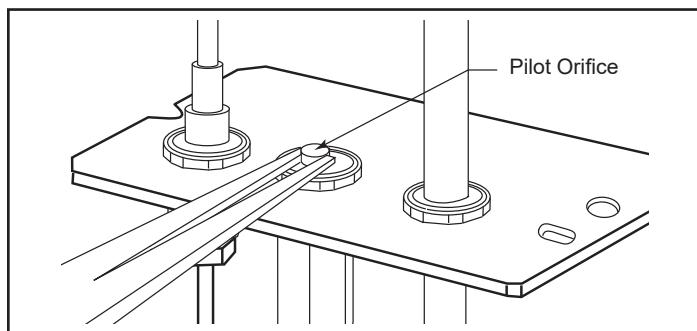


Figure 56 - Remove pilot orifice.

NOTE: It is very critical to keep the left burner leg, which holds the injectors, at a 90° angle to the base. (Figure 57) This keeps the orifices aligned with the tubes inside burner. Failure to do so could affect the flame appearance and performance of the unit.

22. Place conversion label on valve.
23. Reinstall the right and left log bracket assembly.
24. Reinstall the rear log bracket.
25. Replace logs.
26. Replace glass and stove front.

Conversion is complete.

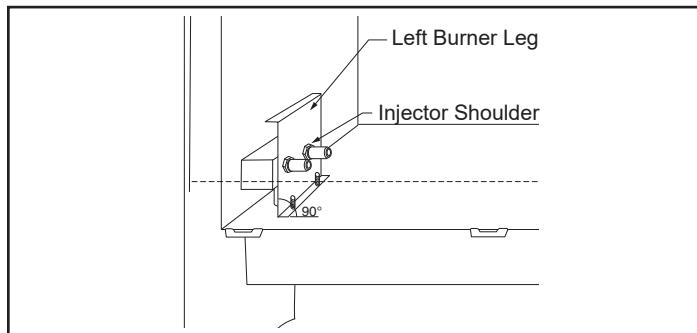


Figure 57 - Be sure to maintain 90° angle at left burner leg.

Table 2 - Injector Orifice Size Matrix

Conversion to Natural Gas					Input (BTU/h)	
Kit #	Front	Part #	Rear	Part #	Minimum	Maximum
30005155	#54 / .055"	20000130	#44 / .086"	30000334	19,000	28,000
Conversion to LP (Propane)					Input (BTU/h)	
Kit #	Front	Part #	Rear	Part #	Minimum	Maximum
30005154	#69 / .029"	30000513	#54 / .055"	20000130	20,000	28,000

Maintenance

Your gas heater will provide years of service with minimal upkeep. The following procedures will help ensure that your stove continues to function properly.

Annual System Inspection

Have the entire heater and venting system inspected annually by a qualified gas technician. Replace any worn or broken parts.

Logset and Burner / Cleaning and Inspection

Cleanliness is critical to the proper function of the heater. The logset and burner must all be kept free of dust and unobstructed by debris. Inspect these areas before each use and clean as necessary.

1. Turn the burner OFF and let the heater cool completely before cleaning.
2. Remove the safety barrier by pulling out, then up.
3. Lift the stove front up and then swing the bottom out to disengage it from the heater shell. (Figure 58)
4. Carefully remove the glass and frame assembly and place it out of the way on a flat, padded surface such as a counter protected by a towel.

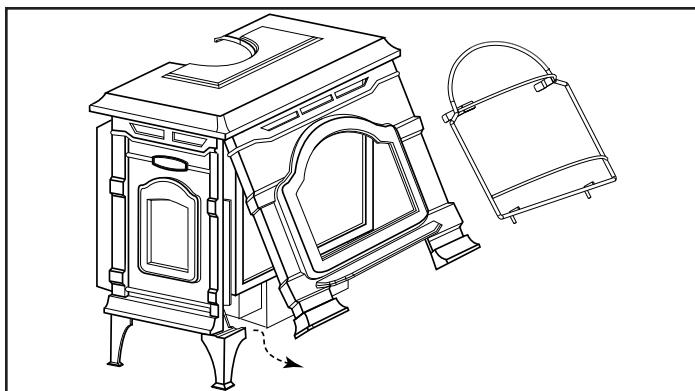


Figure 58 - Remove the stove front.

5. Carefully inspect the Logs for damage. Contact your local dealer if any damage is evident. **DO NOT OPERATE THE HEATER WITH DAMAGED LOGS.**



CAUTION

TURN THE PILOT OFF BEFORE PAINTING. ALLOW THE HEATER TO COOL COMPLETELY BEFORE PAINTING.

6. Use a soft bristled brush to sweep dust or debris from the Logs, Pilot and Burner. Use care as the logs are fragile and susceptible to damage. **DO NOT USE A VACUUM TO CLEAN THE LOGS OR BURNER.**
7. Replace the glass panel and frame assembly.
8. Replace the Stove Front.

Care of Cast Iron

An occasional dusting with a dry rag will help keep the painted surfaces looking new. Use high-temperature stove paints, available through your local dealer, to touch-up areas as needed. Clean areas to be painted with a wire brush and be sure to cover the logs, burner and valve assembly, glass and frame assembly. Apply the paint sparingly; two light coats of paint will give better results than a single heavy coat.

Clean porcelain enamel surfaces with a soft, damp cloth. Do not use abrasive cleaning agents. If necessary, use only a cleaning agent formulated especially for use on porcelain enamel surfaces.

Cleaning the Glass



WARNING

Allow the glass cool completely before attempting to clean.

It will be necessary to clean the glass periodically. During start-up, condensation, which is normal, forms on the inside of the glass and causes lint, dust and other airborne particles to cling to the glass surface. Also initial paint curing may deposit a slight film on the glass. It is therefore recommended that the glass be cleaned two or three times with a non-ammonia household cleaner and warm water (we recommend gas fireplace glass cleaner). After that the glass should be cleaned two or three times during each heating season depending on the circumstances present.

Clean glass after first two weeks of operation.

Glass Replacement

Replace glass only with Hearth & Home Technologies approved parts. Refer to the "Replacement Parts" section of this manual. Refer to Figure 59 and previous instructions for removal of the damaged glass frame.

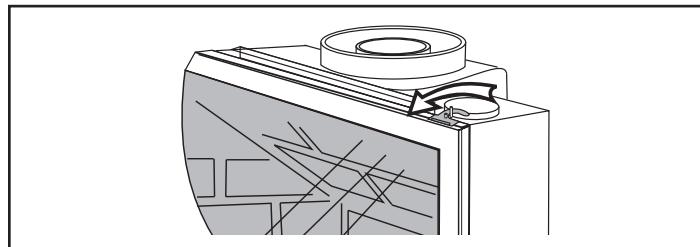


Figure 59 - Release the latches to release the glass frame.

Gasket Replacement

The heater uses a 'tadpole' type gasket to seal between the glass panel and the frame. In time, this gasket can become brittle and compressed and should be replaced. New gasket is available from your dealer.

Shut off the gas supply and allow the stove to cool. Wear safety goggles and a dust mask.

1. Remove the Front, Glass Frame and Glass Panel. (Figures 59 & 60) Remove the old gasket. Use a razor blade to separate the glass and gasket from the frame, and to clean the glass of any remaining cement or bits of gasket. Use a cold chisel if necessary.
2. Determine the correct length of gasket by laying it out around the edge of the glass. Allow an extra 1 - 2" (25-50 mm). Mark the spot to be cut. Use a utility knife.
3. Starting on a long edge, remove about 6" of the protective paper strip and apply the flat adhesive face of the gasket around the outside-facing edge of the panel. Continue around the panel, applying a bout 6" at a time and being careful to not stretch the material. Do not overlap the gasket ends. (Figure 60)
4. Apply a thin bead of high temperature silicone rubber sealant along the inside corner of the glass frame, all around the perimeter. Place the flat gasketed side of the glass panel back into the steel frame. Pinch the rounded inside-facing gasket material to bulk it up.
5. Replace the glass frame and front panel as previously described.

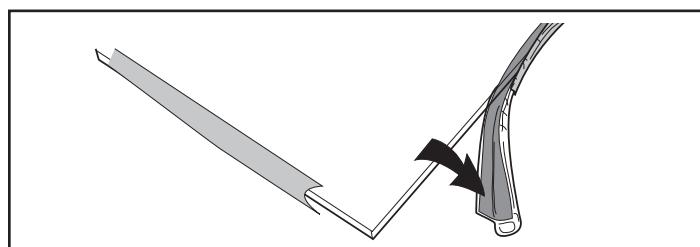


Figure 60 - Wrap the gasket material around the outside edge of the glass.

Inspect the Vent System Annually

Have the vent system inspected annually by a qualified technician. Shut off the main gas supply before inspecting the system. Both the inner exhaust pipe and the outer combustion supply pipe must be checked to confirm that they are unblocked and in good condition.

Check the Gas Flame Regularly

To ensure that the stove is operating properly, check the flames periodically to confirms they match Figure 60. The flames will be blue during the first 15-20 minutes of operation, and will gradually turn to yellow after that.

Do not use your stove if the flame pattern differs from that shown here. Contact your dealer or a qualified technician for help.

Stove Disassembly

If there is ever a need to remove the firebox assembly from the stove shell, support the firebox with solid stands about 6" (150 mm) tall under the left and right outer edges of the firebox base. Do not set the firebox assembly directly on the floor; this can damage the control valve and/or the gas lines from the valve to the firebox.

Before removing the firebox from the shell, disconnect the on/off switch wires from the valve. If the assembly includes the optional fan, disconnect the fan rheostat. If the installation includes a wall thermostat, disconnect the thermostat leads from valve.

Disconnection and reconnection to the gas line should only be done by a qualified gas service technician.

Upon reinstallation, the vent system must be sealed to the firebox as shown in the installation section. Also be sure the logs are placed in the firebox correctly, as shown in Figures 34 & 35.

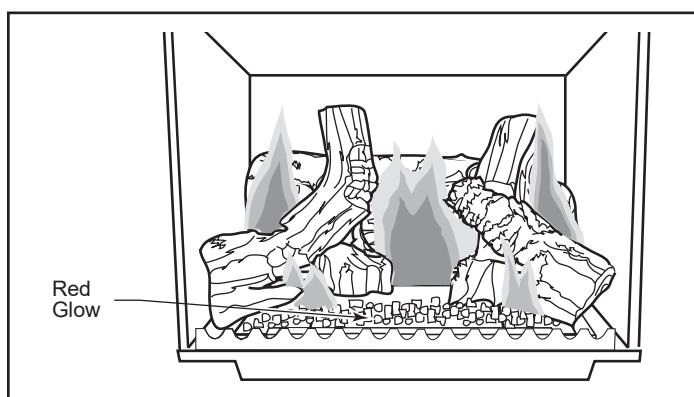
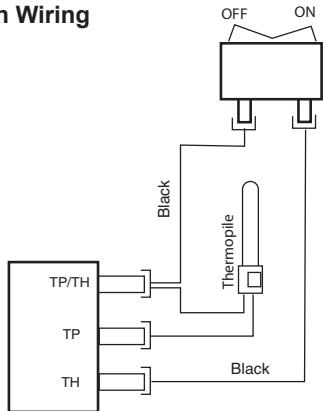


Figure 61 - Correct flame pattern.

Wiring Diagrams

On/Off Switch Wiring



Optional Thermostat Wiring

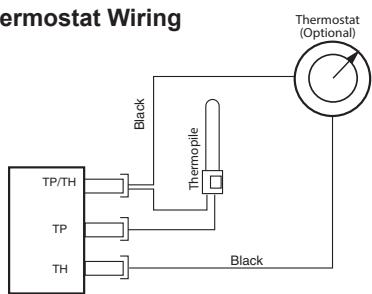


Figure 62 - On/Off switch and optional thermostat circuit.

NOTE: IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THE APPLIANCE, MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE SF-2, 200° WIRE OR ITS EQUIVALENT.

Safety Limit Switch

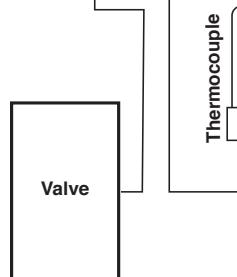
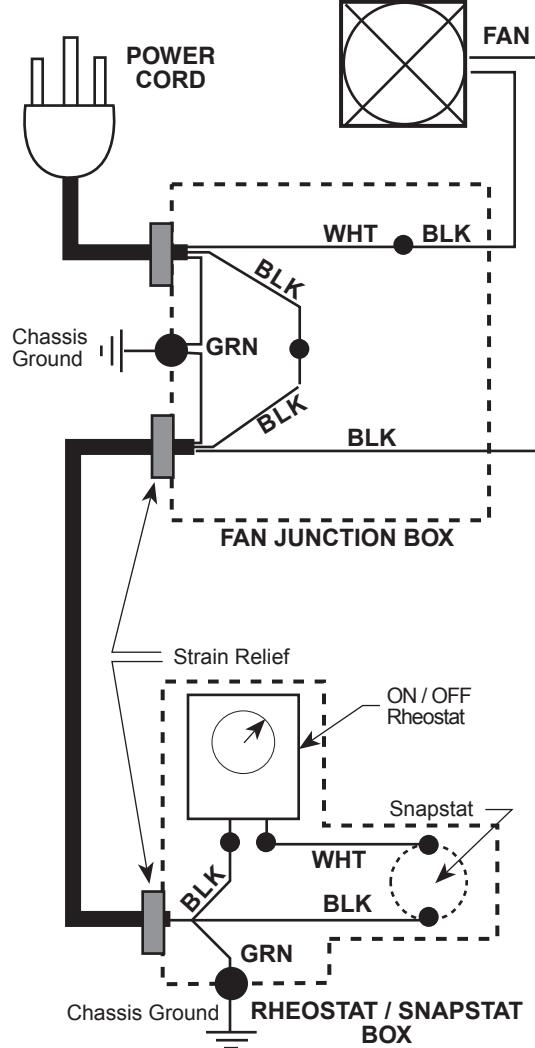


Figure 63 - Draft hood adapter wiring.



Schematic Diagram

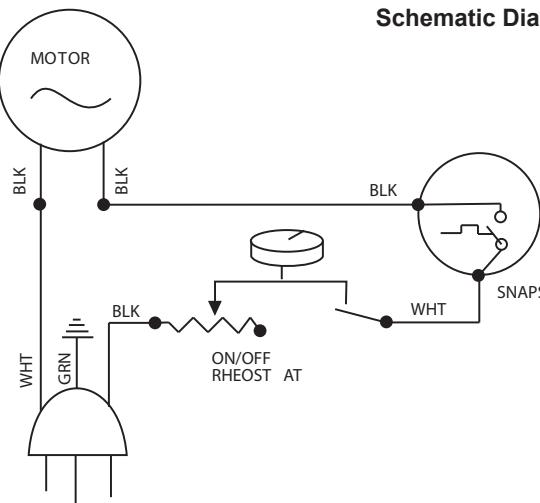


Figure 64 - Fan circuit.

Optional Accessories

Fan Kits

FK26 Fan

The FK26 fan helps distribute heated air from within the firebox out into the room. The fan is controlled by a snapstat that turns power on and off as the firebox temperature rises above and falls below a preset temperature. A rheostat provides for variable fan speeds.

Specifications

115 Volt / 60Hz / .75 Amps

Maintenance

The fan itself does not require regular maintenance, however, periodic cleaning of the fan and the surrounding area is required.

Installation

Refer to the "Install the Optional Fan" section of this manual.

Remote Controls

The remote control allows you to turn the heater on or off from anywhere in the room.

Model	Functions Controlled
RCB	Push Button, ON/OFF
RCMT	Push Button, ON/OFF, Timer
RCST	Push Button, ON/OFF, Thermostat
TSMT	Touch Screen, ON/OFF, Timer
TSST	Touch Screen, Thermostat, ON/OFF, Timer
MVWS	Wired wall switch with 15 ft. wire and wall plate.

Warranty

Hearth & Home Technologies Inc.

HEATILATOR ECO-CHOICE WARRANTY

Hearth & Home Technologies Inc., on behalf of its hearth brands ("HHT"), extends the following warranty for ECOCHOICE by Heatilator wood and pellet hearth appliances that are purchased from an HHT authorized dealer.

WARRANTY COVERAGE:

HHT warrants to the original owner of the HHT appliance at the site of installation, and to any transferee taking ownership of the appliance at the site of installation within two years following the date of original purchase, that the HHT appliance will be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components manufactured by HHT are found to be defective in materials or workmanship during the applicable warranty period, HHT will, at its option, repair or replace the covered components. HHT, at its own discretion, may fully discharge all its obligations under such warranties by replacing the product itself or refunding the verified purchase price of the product itself. The maximum amount recoverable under this warranty is limited to the purchaser price of the product. This warranty is subject to conditions, exclusions and limitations as described below.

WARRANTY PERIOD:

Warranty coverage begins on the date of original purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the product by an independent, authorized HHT dealer/distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from HHT, regardless of the installation or occupancy date. The warranty period for parts and labor for covered components is produced in the following table.

Warranty Period		Heatilator ECO-CHOICE Appliances		Components Covered
Parts	Labor	Pellet	EPA Wood	
1 Year		X	X	All parts and material except as covered by Conditions, Exclusions, and Limitations Listed
3 Years		X		Firepots and burnpots
3 Years	1 Year	X	X	Castings
5 Years	3 Years		X	Manifold tubes
5 Years	3 Years	X	X	Firebox and heat exchanger
90 Days		X	X	All replacement parts beyond warranty period
See conditions, exclusions, and limitations on next page				

WARRANTY COVERAGE:

- This warranty only covers HHT appliances that are purchased through an HHT authorized dealer or distributor. A list of HHT authorized dealers is available on the HHT branded websites.
- This warranty is only valid while the HHT appliance remains at the site of original installation.
- Contact your installing dealer for warranty service. If the installing dealer is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the product.
- Check with your dealer in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this warranty.

WARRANTY EXCLUSIONS:

This warranty does not cover the following:

- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items, or other external sources and residues left on the plated surfaces from the use of abrasive cleaners or polishes.
- Repair or replacement of parts that are subject to normal wear and tear during the warranty period are not covered. These parts include: firebricks, flame guides, batteries and the discoloration of glass.
- Expansion, contraction, or movement of certain parts causing noise. These conditions are normal, and complaints related to this noise are not covered by this warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the appliance in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the appliance; (2) failure to install the appliance in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/incorrectly performed repairs (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operation instructions; (7) installation or use of components not supplied with the appliance or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the appliance.
- Non-HHT venting components, hearth connections or other accessories used in conjunction with the appliance.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas appliance is installed.
- HHT's obligation under this warranty does not extend to the appliance's capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper appliance for the application. Consideration must be given to the appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

THIS WARRANTY IS VOID IF:

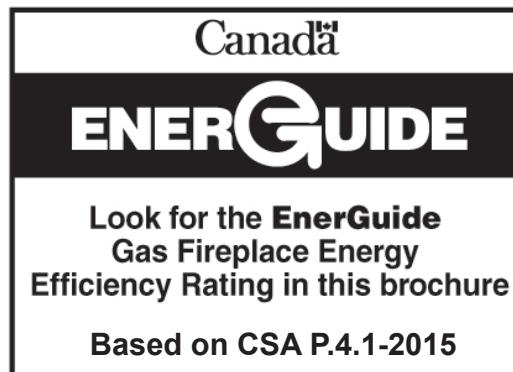
- The appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals. Overfiring can be identified by, but not limited to, warped plates or tubes, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
- The appliance is subjected to prolonged periods of dampness or condensation.
- There is any damage to the appliance or other components due to water or weather damage which is the result of, but not limited to improper chimney or venting installation.

LIMITATIONS OF LIABILITY:

- The owner's exclusive remedy and HHT's sole obligation under this warranty, under any other warranty, express or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above. In no event will HHT be liable for any incidental or consequential damages caused by defects in the appliance. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific rights; you may also have other rights, which vary from state to state. EXCEPT TO

THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE.

Efficiency Ratings		
Model	EnerGuide Ratings Fireplace Efficiency (%)	D.O.E (AFUE%)
OXDV30SP	58.4	71



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