

QUADRA-FIRE®

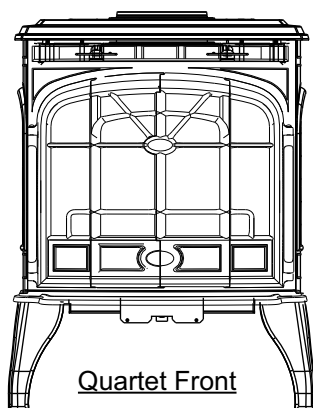
SAPPHIRE

DIRECT VENT ROOM HEATER

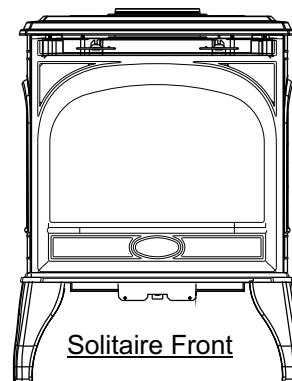
Owner's Manual Installation and Operation

Model:

839-1390
839-1440
839-1460
SAPPH-D-CSB
SAPPH-D-CWL



Quartet Front



Solitaire Front

Tested and
Listed by  Portland
Oregon USA
OMNI-Test Laboratories, Inc.

CAUTION



DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.



WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury, or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
 - Do not try to light any appliance. Do not touch any electrical 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.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

WARNING



HOT SURFACES!

Glass and other surfaces are hot during operation AND cool down.

Hot glass will cause burns.

- Do not touch glass until it is cooled
 - NEVER allow children to touch glass
 - Keep children away
 - CAREFULLY SUPERVISE children in the same room as appliance
 - Alert children and adults to hazards of high temperatures
- High temperatures may ignite clothing or other flammable materials.**
- Keep clothing, furniture, draperies and other combustibles away.

In the Commonwealth of Massachusetts:

- installation must be performed by a licensed plumber or gas fitter.

See Table of Contents for additional Commonwealth of Massachusetts requirements.



Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies suggests NFI certified or factory-trained professionals, or technicians supervised by an NFI certified professional.

This appliance may be installed as an OEM installation in manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the manufactured home construction and safety standard, Title 24 CFR, Part 3280 or Standard for Installation in Mobile Homes, CAN/CSA Z240MH.

This appliance is only for use with the type(s) of gas indicated on the rating plate.



We wish you and your family many years of enjoyment in the warmth and comfort of your hearth appliance. Thank you for choosing Quadra-Fire.

Manufactured Date

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Listing and Code Approvals

A. Appliance Certification

MODEL:	Sapphire
LABORATORY:	OMNI Test Laboratories, Inc. 061-S-19b-5
TYPE:	Direct Vent Gas Heater
STANDARD:	ANSI Z21.88a-2000 · CSA 2.33a-M00 · UL307b · CAN/CBA 2.17-M91

The product is listed to ANSI standards for "Vented Gas Appliance Heaters" and applicable sections of "Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles" and "Gas Fired Appliances for use at High Altitudes".

Manufactured Home or Mobile Home installation may occur only after the home is site located and must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI/NCSCBS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4.

When installed, the appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.

B. Glass Specifications

This appliance is equipped with 5mm ceramic glass. Replace glass only with 5mm ceramic glass. Please contact your dealer for replacement glass.

NOTE: This installation must conform with local codes. In the absence of local codes you must comply with the **National Fuel Gas Code, ANSI Z223.1-latest edition** in the U.S.A. and the **CAN/CGA B149 Installation Codes** in Canada.



WARNING

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

C. BTU Specifications

Model <i>(US or Canada)</i>	Maximum Input BTU	Minimum Input BTU	Orifice Size (DMS)	*Steady State Efficiency %	**P.4 %
TOP VENT: Sapphire (NG) Sapphire (LP)	30,000	21,000	36	84	64
	30,000	24,500	52	82	65
REAR VENT: Sapphire (NG) Sapphire (LP)	26,000	18,000	41	84	64
	26,000	20,000	53	82	65

* Thermal efficiency maximum pipe with blower on.

** Canada minimum pipe.

D. High Altitude Installations

Omni-Test Laboratories listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2000 feet in the U.S.A. and 0 to 4500 feet in Canada.

When installing this appliance at an elevation above 2000 feet, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 feet above a 2000 foot elevation in the U.S.A. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4500 feet (in Canada), check with local authorities.

E. Non-Combustible Materials

Materials that are reported as passing ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C, shall be considered non-combustible materials.

F. Combustible Materials

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other materials that can ignite and burn, whether flame proofed or not, or whether plastered or unplastered shall be considered combustible materials.

NOTE: The following requirements reference various Massachusetts and national codes not contained in this document.

G. Requirements for the Commonwealth of Massachusetts

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 and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or 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 hard wired 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 be 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.

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 separated 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 fueled 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 system" 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.

See Gas Connection section for additional Commonwealth of Massachusetts requirements.

2

Getting Started

A. Design & Installation Considerations

Quadra-Fire direct vent gas appliances are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside. No additional air source is required.

CAUTION

Check building codes prior to installation.

- Installation **MUST** comply with local, regional, state and national codes and regulations.
- Consult local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

When planning an installation, it is necessary to determine the following information before installing:

- Where the appliance is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical wiring.
- Whether optional accessories - devices such as a blower, thermostat or remote control - are desired.



WARNING

Keep appliance dry.

- Mold or rust may cause odors.
- Water may damage controls.

B. Tools and Supplies Needed

Before beginning the installation be sure that the following tools and building supplies are available. **Note: Not all tools will apply to every installation.**

Reciprocating saw	Variable Speed Drill/Driver
Pliers	Wrench Set
Hammer	Framing Square
Phillips Screwdriver	Framing Material
Flat Blade Screwdriver	Hi temp caulking material
Plumb Line	Voltmeter
Level	Gloves
Manometer	Safety Glasses
Tape Measure	Non-corrosive Leak Check Solution or combustible gas detector

C. Inspect Appliance & Components



WARNING



Inspect appliance and components for damage. Damaged parts may impair safe operation.



- Do NOT install damaged components.
- Do NOT install incomplete components.
- Do NOT install substitute components.

Report damaged parts to dealer.

- Carefully remove the appliance and components from the packaging.
- Remove cast door and glass door, and set aside on protective surface.
- Remove log set and component pack from firebox.
- Report to your dealer any parts damaged in shipment, particularly the condition of the glass.
- **Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.**



WARNING



Hearth & Home Technologies disclaims any responsibility for, and the **warranty will be voided** by, the following actions:

- Installation and use of any damaged appliance or vent system component.
- Modification of the appliance or vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

Any such action may cause a fire hazard.

3 Appliance Location and Clearances

NOTE:

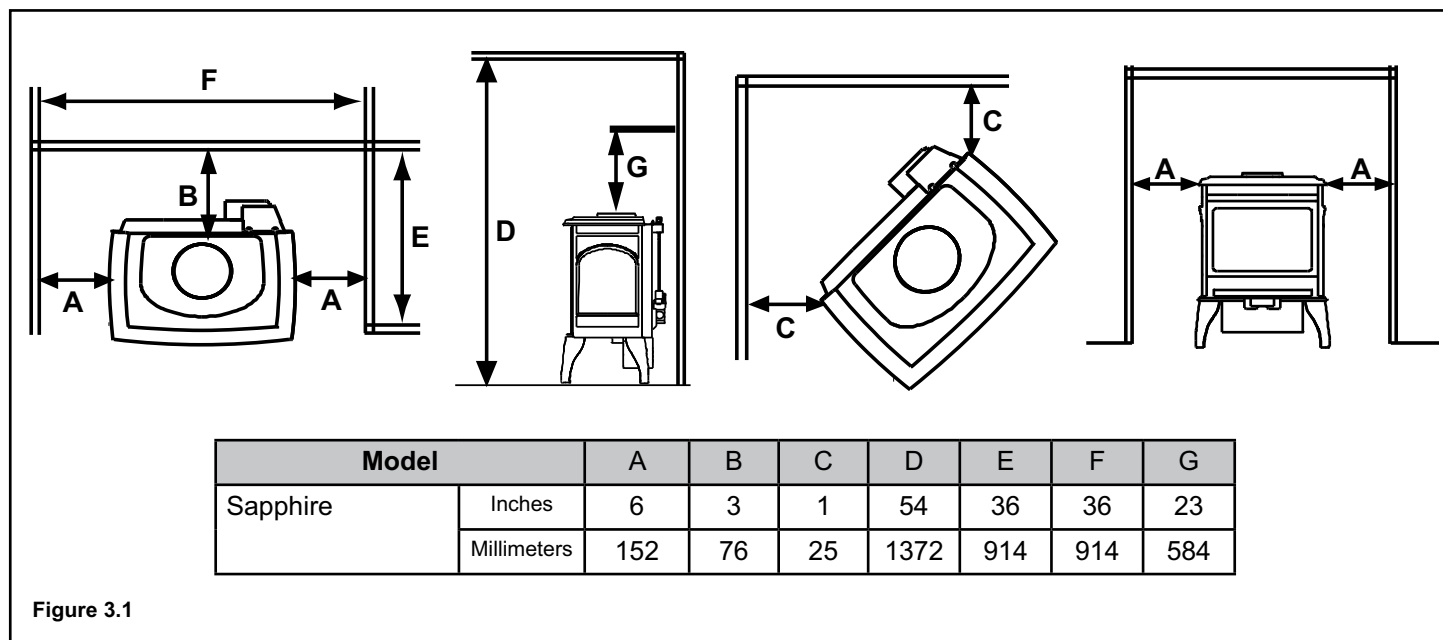
- Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY.
- Illustrations/diagrams are not drawn to scale.
- Actual installation may vary due to individual design preference.

A. Selecting Appliance Location

When selecting a location for your appliance it is important to consider the required clearances to walls (see **Figure 3.1**).

NOTE: For actual appliance dimensions refer to Section 12.

B. Clearances



It is permissible to place the appliance on carpet.

CAUTION

Some carpet materials may be sensitive to radiant heat from the appliance causing discoloration or odor.

NOTE: Flooring beneath appliance may reach 90 degrees plus room ambient temperature. Check with flooring manufacturer for maximum temperature allowed on flooring surfaces.

WARNING



Fire Risk
Provide adequate clearance:

- Around air openings
- To combustibles
- For service access

 Locate appliance away from traffic areas.

WARNING



Fire Risk.

- Locate and install appliance to all clearance specifications in manual.

WARNING



Fire Risk.
Odor Risk.
Tipping Risk



- Install appliance on a stable, level platform/ floor strong enough to support appliance without tipping.
- USE wood flooring, ceramic tile, brick hearth or high pressure laminate flooring applied directly over the sub-flooring material.

4 Termination Locations

A. Vent Termination Minimum Clearances

WARNING

Fire Risk.
Explosion Risk.
 Maintain vent clearance to combustibles as specified.

- Do not pack air space with insulation or other materials.

Failure to keep insulation or other materials away from vent pipe may cause fire.

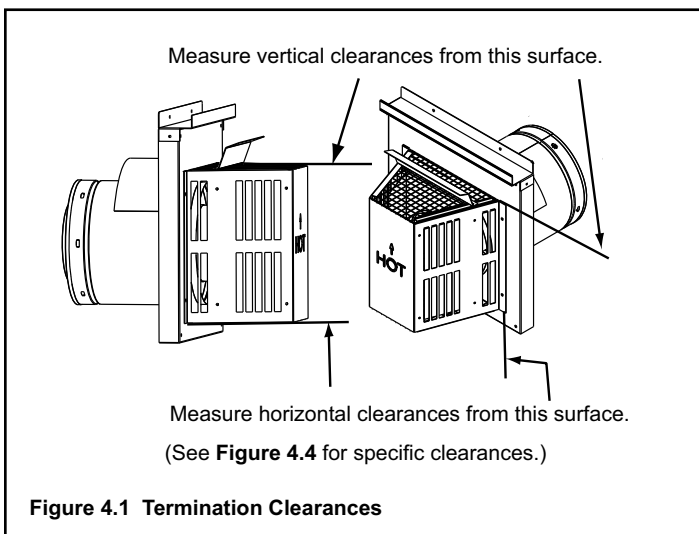


Figure 4.1 Termination Clearances

	Gas Termination	Wood & Fuel Oil Termination
A	6 in. (152mm)	20 in. (508mm)

Figure 4.2 Multiple Vertical Termination

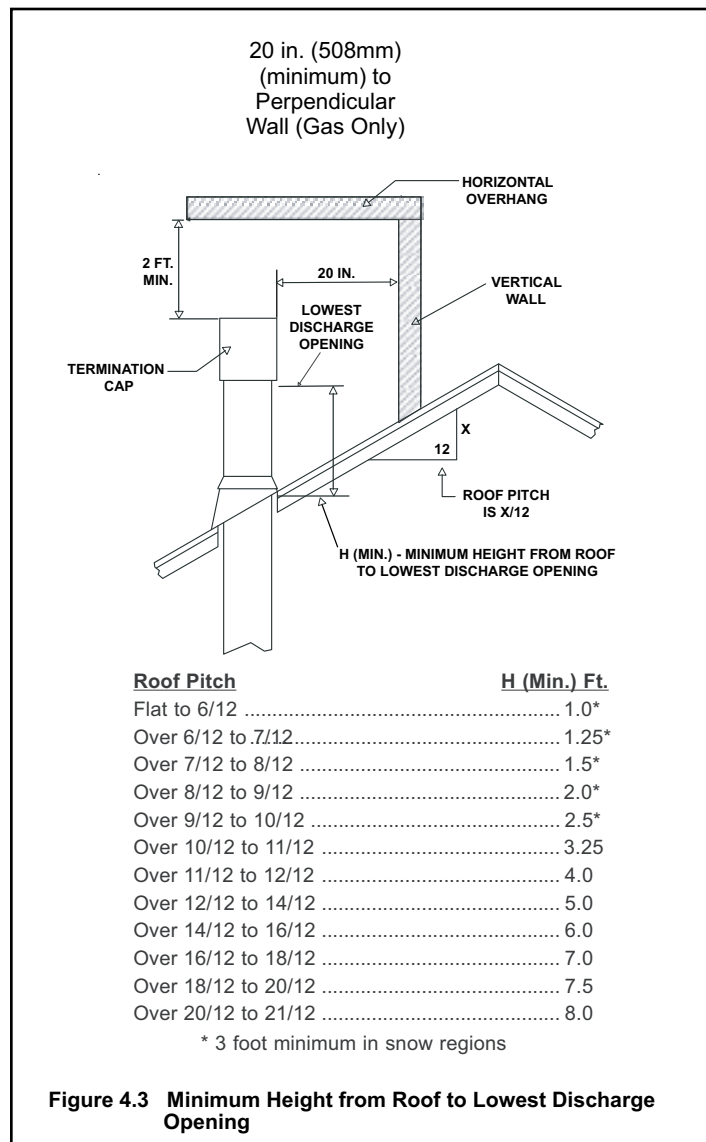
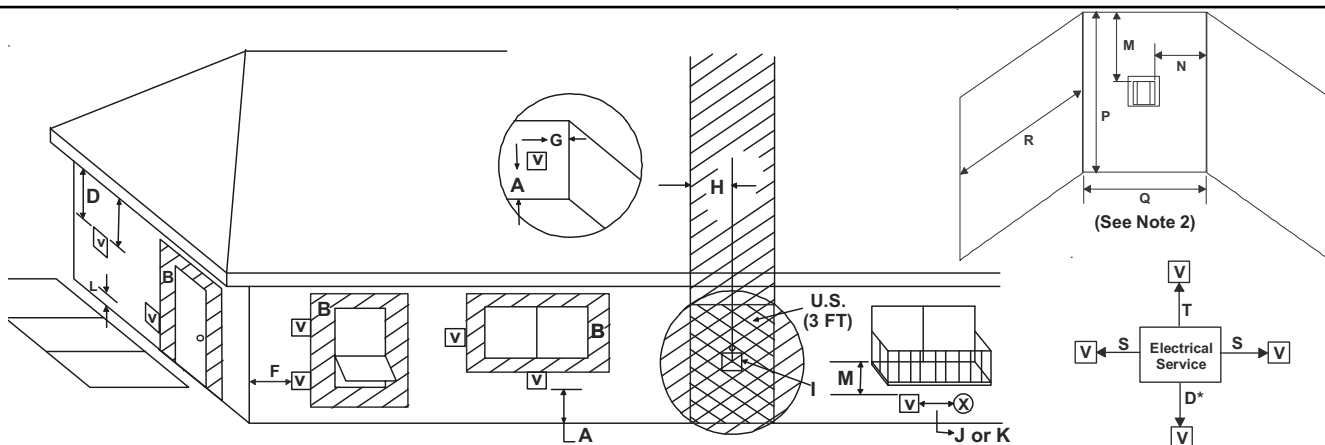


Figure 4.3 Minimum Height from Roof to Lowest Discharge Opening

Figure 4.3 specifies minimum vent heights for various pitched roofs.



V = VENT TERMINAL

X = AIR SUPPLY INLET

[Hatched Area] = AREA WHERE TERMINAL IS NOT PERMITTED

- A = 12 inches clearances above grade, veranda, porch, deck or balcony
(See Note 1)
- B = 12 inches clearances to window or door that may be opened, or to permanently closed window. (Glass)
- D* = 18 inches vertical clearance to unventilated soffit or to ventilated soffit located above the terminal
*30 inches for vinyl clad soffits and below electrical service
- F = 9 inches clearance to outside corner
- G = 6 inches clearance to inside corner
- H = 3 ft. (Canada) not to be installed above a gas meter/regulator assembly within 3 feet (90cm) horizontally from the center-line of the regulator
- I = 3 ft. clearance to gas service regulator vent outlet
- J = 9 inches (U.S.A.)
12 inches (Canada) clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance

- K = 3 ft. (U.S.A.)
6 ft. (Canada) clearance to a mechanical (powered) air supply inlet
- L** = 7 ft. clearance above paved sidewalk or a paved driveway located on **public** property
(See Note 1)
- M*** = 18 inches clearance under veranda, porch, deck, balcony or overhang
42 inches vinyl
- S = 6 inches clearance from sides of electrical service
(See Note 3)
- T = 12 inches clearance above electrical service
(See Note 3)

Alcove Applications

- N = 6 inches non-vinyl sidewalls
12 inches vinyl sidewalls
- P = 8 ft.

	Q _{MIN}	R _{MAX}
1 cap	3 feet	2 x Q _{ACTUAL}
2 caps	6 feet	1 x Q _{ACTUAL}
3 caps	9 feet	2/3 x Q _{ACTUAL}
4 caps	12 feet	1/2 x Q _{ACTUAL}
Q _{MIN} = # termination caps x 3 R _{MAX} = (2 / # termination caps) x Q _{ACTUAL}		

** a vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.

*** only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor, or meets Note 2.

NOTE 1: On private property where termination is less than 7 feet above a sidewalk, driveway, deck, porch, veranda or balcony, use of a listed cap is suggested. (See vents components pages.)

NOTE 2: Termination in an alcove space (spaces only open on one side and without an overhang) are permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. **1.** There must be at least 3 feet minimum between termination caps. **2.** All mechanical air intakes within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap. **3.** All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.

NOTE 3: Location of the vent termination must not interfere with access to the electrical service.

NOTE: Local codes or regulations may require different clearances.

NOTE: Termination caps may be hot. Consider their proximity to doors or other traffic areas.

WARNING: In the U.S.: Vent system termination is **NOT** permitted in screened porches. You must follow side wall, overhang and ground clearances as slated in the instructions.

In Canada: Vent system termination is **NOT** permitted in screened porches. Vent system termination is permitted in porch areas with two or more sides open. You must follow side wall, overhang and ground clearances as stated in the instructions.

Quadra-Fire assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.

CAUTION: IF EXTERIOR WALLS ARE FINISHED WITH VINYL SIDING, IT IS SUGGESTED THAT A VINYL PROTECTOR KIT BE INSTALLED (part #VPK-DV).

Figure 4.4

5

Vent Information

A. Venting Components

In order to comply with applicable codes and product warranties, use only following venting components:

- Hearth & Home Technologies (HHT)
- Simpson Dura-Vent (SDV)
- Selkirk
- AmeriVent
- Security Secure Vent

DO NOT USE FIELD-FABRICATED VENTING COMPONENTS. Refer to the venting manufacturer's instructions.

This product is approved to be vented either horizontally, through the side wall or vertically through the roof. You may vent through a Class A or masonry chimney if an approved adapter is used.

This appliance is a direct vent heater. All combustion air must come directly from the outside of the building. The vent pipe for this unit consists of an inner and an outer pipe. The inner pipe carries the appliance exhaust out of the system, and the outer pipe brings fresh combustion air into the appliance.

- A round support box/wall thimble or heat shield is required when the venting passes through a combustible wall.
- A support box or ceiling firestop is required when the venting passes through a ceiling.
- Roof flashing and a storm collar are required when venting passes through the roof.
- Follow instructions provided with the venting for installation of these items.



WARNING



Fire Hazard.
Explosion Risk.
Asphyxiation Risk.

Do NOT connect this gas appliance to a chimney flue serving a separate solid-fuel or gas burning appliance.



- Vent this appliance directly outside.
 - Use separate vent system for this appliance.
- May impair safe operation of this appliance or other appliances connected to the flue.

B. Use of Elbows

CAUTION

ALL vent configuration specifications **MUST** be followed.

- This product is tested and listed to these specifications.
- Appliance performance will suffer if specifications are not followed.

Diagonal runs have both vertical and horizontal vent aspects when calculating the effects. Use the rise for the vertical aspect and the run for the horizontal aspect. (See **Figure 5.1**.)

Two 45° elbows may be used in place of one 90° elbow. On 45° runs, one foot of diagonal is equal to 8-1/2 in. (216mm) horizontal run and 8-1/2 in. (216mm) vertical run. A length of straight pipe is allowed between two elbows. (See **Figure 5.1**.)

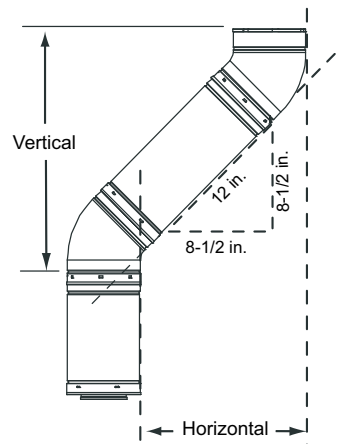


Figure 5.1

C. Measuring Standards

Vertical and horizontal measurements were made using the following standards.

- Pipe measurements are from center line to center line.
- Horizontal terminations are measured to the outside of the mounting surface (flange of termination cap). See **Figure 4.1** on page 8.
- Vertical terminations are measured to the top of the last pipe before termination cap.
- Horizontal pipe installed level with 1/4 in. rise.

D. How to Use the Vent Graph

1. Measure the distance from the top of appliance to the center of the 90° elbow. On the graph below, draw a horizontal line from that measurement on the vertical axis across until it intersects with the slanted line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. The point at which this line meets the bottom line of the graph is the maximum length of the horizontal run.

Example 1: If the vertical dimension from the top of the appliance to the center of the 90° elbow is 7 ft. (2m), the horizontal run to the base of the termination cap must not exceed 13 ft.-2 in. (4m).

Example 2: If the vertical dimension from the top of the appliance is 21 ft. (6m), the horizontal run to the base of the termination cap must not exceed 7 ft.-3 in. (2m).

4. Each 90° elbow is equivalent to 3 ft. (914mm) of vent pipe and each 45° elbow is equivalent to 1 ft. (305mm) of vent pipe, and must be subtracted from vent pipe run. A single vertical to horizontal 90° elbow is already calculated into the allowable 15 ft. (5m) run. Each additional 90° elbow reduces the maximum horizontal distance by 3 ft. (914mm).

Example: The use of 3 elbows would reduce the allowable horizontal run to 9 ft. (3 - 1 = 2 elbows x 3 ft. = 6 ft.; 15 ft. max. - 6 ft. = 9 ft. max.)

E. Venting Guidelines

Notes: The maximum horizontal vent run is 15 ft. (5m) when the vertical vent rise is 10 ft. (3m).

The minimum horizontal vent run is 11 in. (279mm).

Minimum wall thickness is 4 in. (102mm). Maximum wall thickness is 20 in. (508mm).

Horizontal sections require a 1/4 in. (6mm) rise for every 12 in. (305mm) of horizontal travel.

Exterior Vent Diameter = 6-5/8 in. (168mm); Inner Vent Diameter = 4 in. (101mm).

Horizontal sections require noncombustible support every 3 ft. (914mm), e.g. plumbing tape.

EXCEPTION FOR REAR VENT KIT, HORIZONTAL INSTALLATION:

When installing the Sapphire in a rear vent configuration with no vertical rise: a snorkel kit must be used, and a derating orifice must be installed. The appropriate orifice is supplied with the rear vent kit.

For any vertical rise when rear venting, a minimum of 2 ft. (610mm) vertical must be used prior to any horizontal run.

The maximum horizontal vent run is 2 ft. (610mm).

The maximum horizontal vent run with a 45° elbow is 14 in. (356mm).

No external minimum rise is required. The minimum horizontal vent run is 11 in. (279mm).

NOTE: IF YOUR INSTALLATION FALLS WITHIN A SHADED AREA ON THE GRAPH, THE DAMPER MUST BE USED.

NOTE: In the Commonwealth of Massachusetts, the word damper shall be replaced with the words flue restrictor.

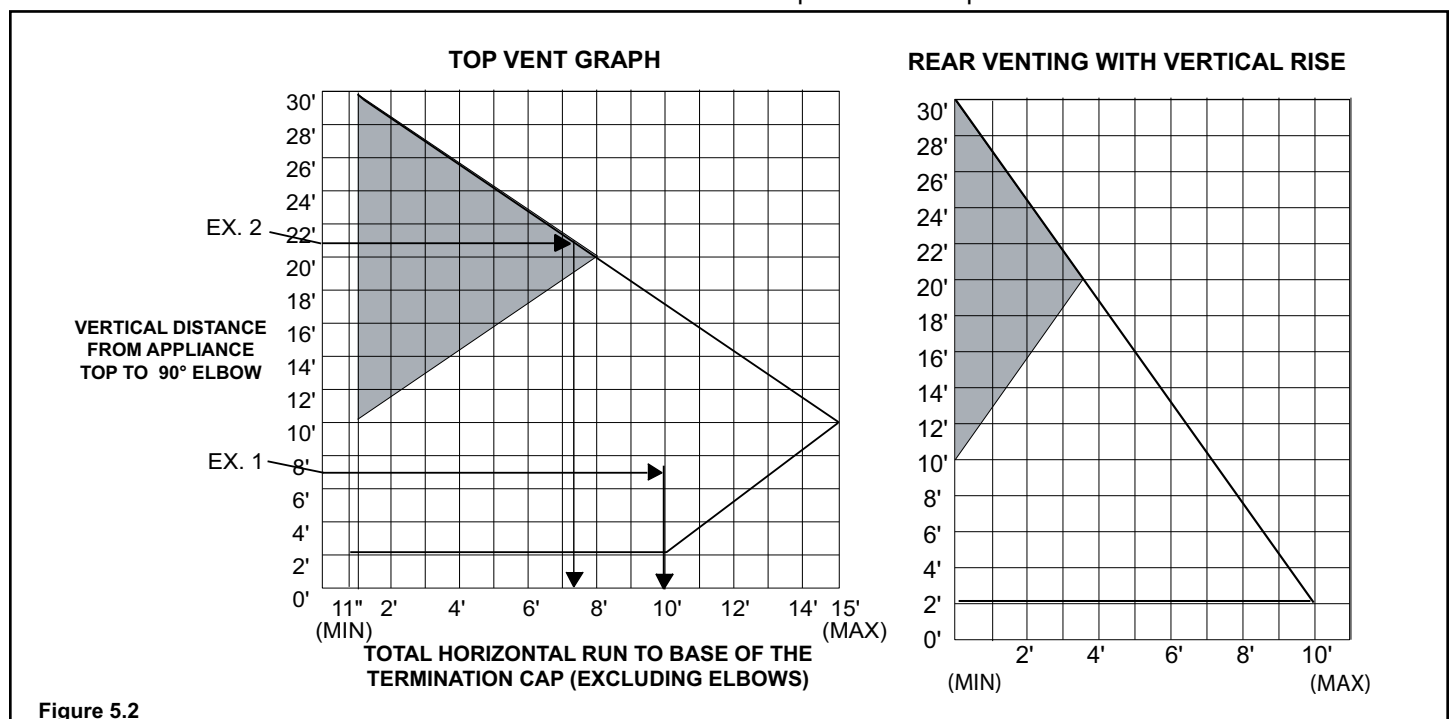
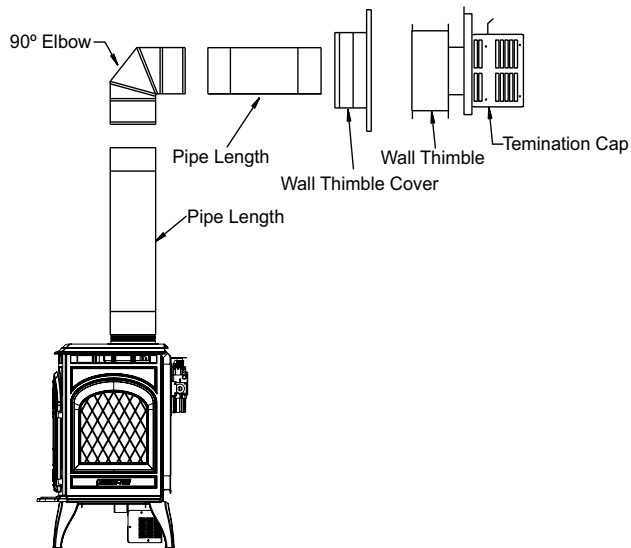


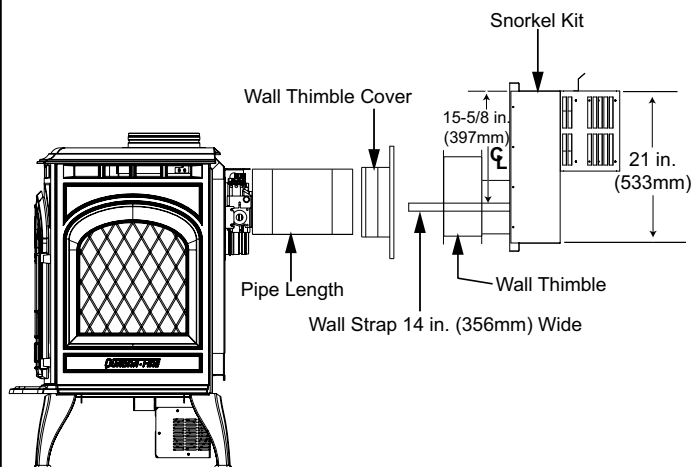
Figure 5.2

F. Horizontal Termination

Type A - Up & Out Installations for Top Vent Configurations



Type B - Rear Installations for Use with Rear Vent Kit



This is the only venting configuration that requires the use of the rear vent derating orifice that comes with the rear vent kit. **NOTE: A Snorkel Kit is required.**

Figure 5.3

Step 1.

Determine the desired location of the appliance. Check to ensure that wall studs or roof rafters are not in the way when the venting system is attached. If this is the case, you may want to adjust the location of the appliance.

WARNING



Fire Hazard.
Exhaust Fume Risk.
Impaired Performance of Appliance.



- Ensure vent components are locked together correctly.
- Pipe may separate if not properly joined.

Step 2.

Direct vent pipe is designed with a locking connection. To connect the venting system to the appliance flue outlet, a twist-lock adapter is built into the appliance at the factory. Wall thickness may vary. Remember to include wall thickness in minimum clearances when figuring venting lengths for your installation needs.

Note: Female ends of direct vent pipe/elbows are designed to slide straight onto the male ends of adjacent pipes by orienting the pipe indentations so they match and slide into the entry slots on the male ends, see **Figure 5.4**. Push the pipe sections completely together, then twist-lock one section clockwise approximately one-quarter turn, until the two sections are fully locked. The female locking lugs may not be visible from the outside. They may be located by examining the inside of the female ends.

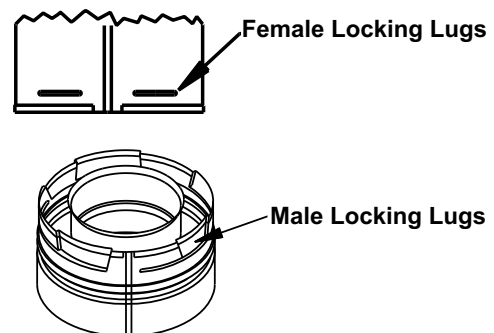


Figure 5.4

WARNING



Fire Risk.
Explosion Risk.
Combustion Fume Risk.
Use vent run supports per installation instructions.
Connect vent sections per installation instructions.

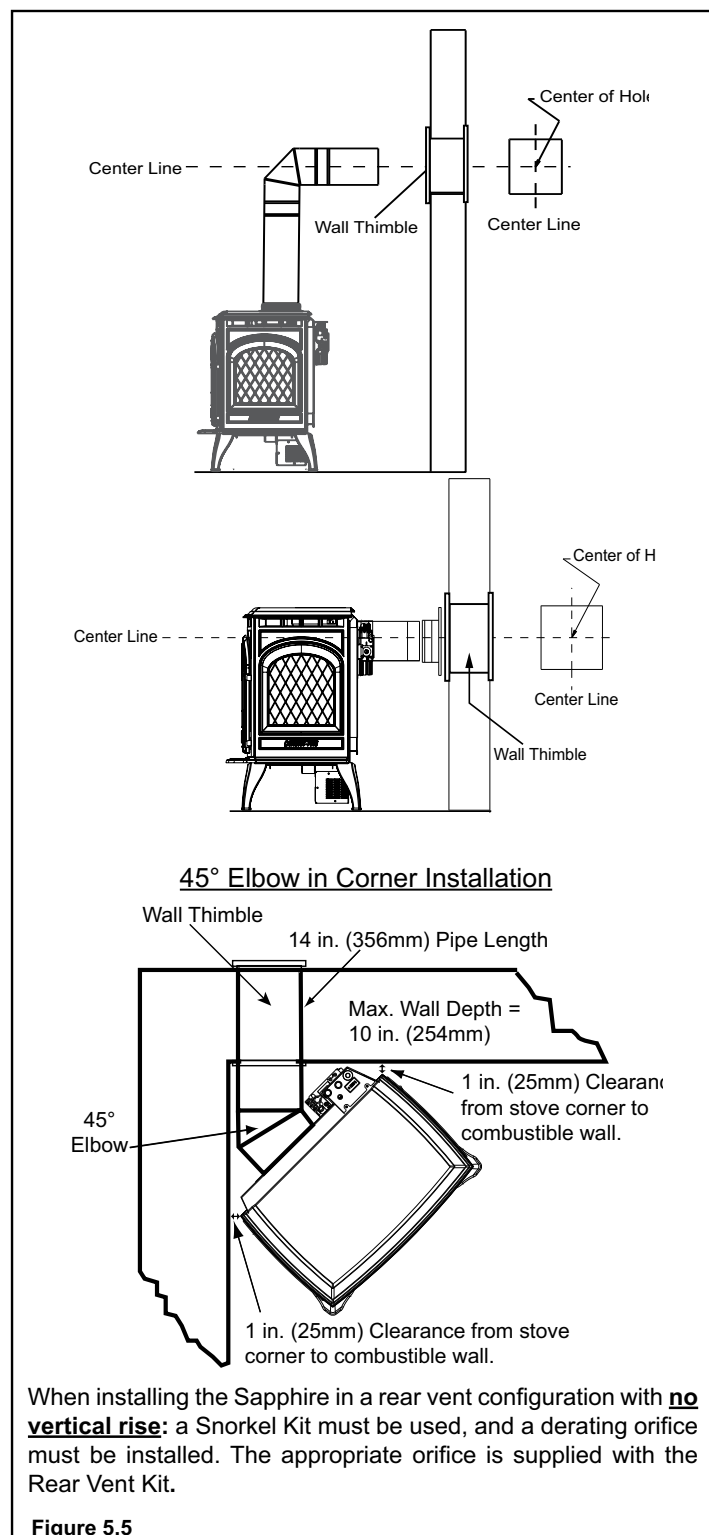


- Maintain all clearances to combustibles.
- Do NOT allow vent to sag below connection point to appliance.
- Maintain specified slope (if required).

Improper support may allow vent to sag or separate.

Step 3.

For installations using a round support box/wall thimble (check pipe manufacturer's instructions), mark the wall for a 10 in. x 10 in. (254mm x 254mm) square hole. The center of the square hole should line up with the center line of the horizontal pipe, as shown in **Figure 5.5**. Cut and frame the hole in the exterior wall where the vent will be terminated. If the wall being penetrated is constructed of noncombustible material, i.e. masonry block or concrete, a 7 in. (178mm) diameter hole is acceptable.

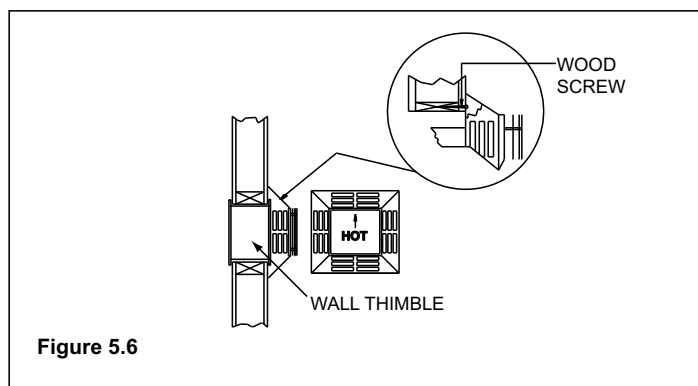


NOTE:

- (1) Installation requires a minimum of 11 in. (279mm) horizontal run. Each 1 ft. (305mm) of horizontal vent run must include a 1/4 in. (6mm) of vertical rise towards the termination. Never allow the vent to run downward. This could cause high temperatures and may present the possibility of a house or structure fire.
- (2) The location of the horizontal vent termination on an exterior wall must meet all local and national building codes, and must not be easily blocked or obstructed, see **Figure 4.4** on page 9.
- (3) For installations requiring a vertical rise on the exterior of the building, a snorkel kit is available with a 14 in. (356mm) and a 36 in. (914mm) tall snorkel termination cap. Follow the same installation procedures as used for standard horizontal terminations. If the snorkel termination must be installed below grade (i.e. basement application), proper drainage must be provided to prevent water from entering the snorkel termination. Do not backfill around snorkel termination.

Step 4.

Position the horizontal termination cap in the center of the 10 in. x 10 in. (254mm x 254mm) square hole and run a bead of non-hardening mastic around its outside edges, so as to make a seal between it and the wall, attach termination cap to the exterior wall with the four wood screws provided. The arrow on the vent cap should be pointing up (**Figure 5.6**).



NOTES:

- (1) The four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings.
- (2) A termination cap with a built-in vinyl siding standoff is highly recommended on a building with vinyl siding. The pilot hole will be 2 in. (51mm) closer to the bottom of the square than the top. Using a framing square, draw a 14 in. x 14 in. (356mm x 356mm) square around the pilot hole in the siding. See **Figure 5.7** on the next page.

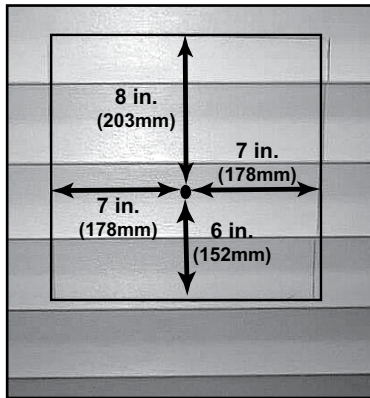


Figure 5.7

(NOTE: Some termination caps may cause the vent pipe to be off center on flashing). Ensure that proper clearances to combustible materials are maintained. If you are not using an approved termination cap with a built-in standoff on a building with vinyl siding, a vinyl siding standoff should be installed between the termination cap and the exterior wall (Figure 5.8). Follow manufacturer's instructions for attaching the vinyl siding standoff to the horizontal termination cap. The vinyl siding standoff prevents excessive heat from possibly melting the vinyl siding material. The vent terminal cap shall not be recessed into a wall or siding. Remove siding from the area where the standoff will be located.

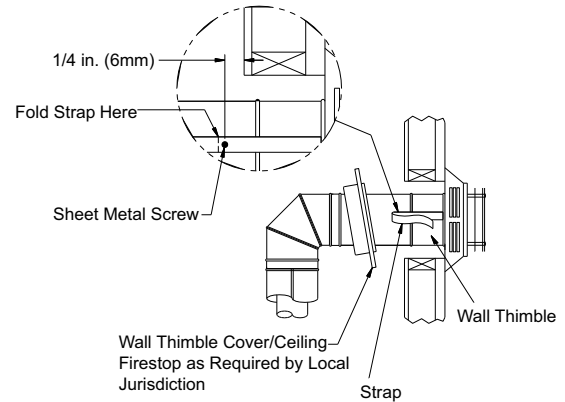


Figure 5.9

Note: The attachment from the vent pipe to the vent termination cap must be sealed with silicone. Termination caps shall not be recessed into a wall or siding.

WARNING

Fire Hazard.
Exhaust Fume Risk.
Impaired Performance of Appliance.

- Ensure vent components are locked together correctly.
- Pipe may separate if not properly joined.

WARNING

Do NOT connect a pipe section to a termination cap without using the telescoping flue section found on the termination cap.

WARNING

Burn Risk.

- Local codes may require installation of a cap shield to prevent anything or anyone from touching the hot cap.

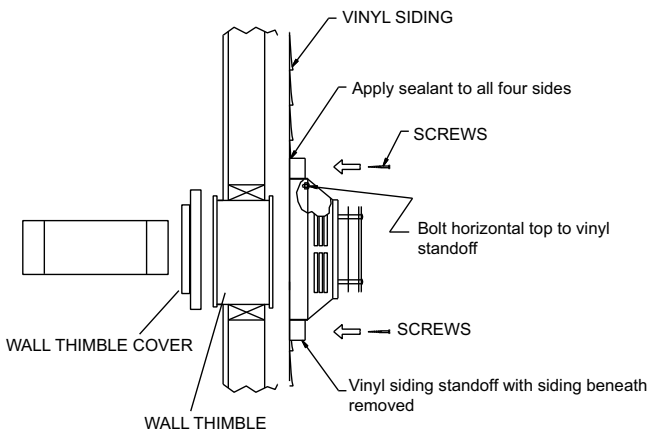


Figure 5.8

Step 5.

Place the wall thimble cover over the pipe assembly and slide the appliance and vent assembly towards the wall, carefully inserting the vent pipe into the vent termination cap assembly. It is important that the vent pipe extend into the vent termination cap a sufficient distance so as to result in a minimum pipe overlap of 1-1/4 in. (32mm). Secure the connection between the vent pipe and the vent termination cap by attaching the two sheet metal strips extending from the vent termination cap assembly into the outer wall of the vent pipe. Use the two sheet metal screws provided to connect the strips to the pipe section (Figure 5.9).

G. Vertical Termination

1. Direct Vent Pipe

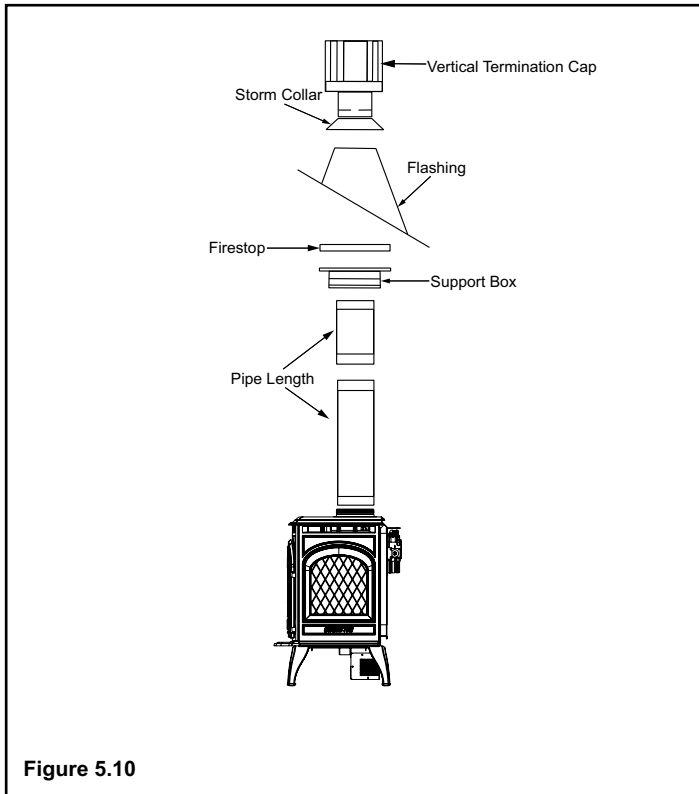




Figure 5.10

Step 1.

Check the installation instructions for required 1 in. (25mm) clearances (air space) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafters, or other nearby combustible surfaces. See page 16, **Figure 5.15**. Check the instructions for maximum vertical rise of the venting system, and any maximum horizontal offset limitations. All offsets must fall within the set parameters of the vent graph (**Figure 5.2**) located on page 11.

NOTE: Maximum vertical rise allowable is 35 ft. (11m) **Figure 5.11**).

NOTE: Maximum number of 45° elbows permitted for a vertical installation is eight, provided their installation does not decrease maximum allowable horizontal run (as specified by vent graph, on page 11).

	WARNING
	<p>Fire Risk. Explosion Risk. Maintain vent clearance to combustibles as specified.</p> <ul style="list-style-type: none">Do not pack air space with insulation or other materials. <p>Failure to keep insulation or other materials away from vent pipe may cause fire.</p>

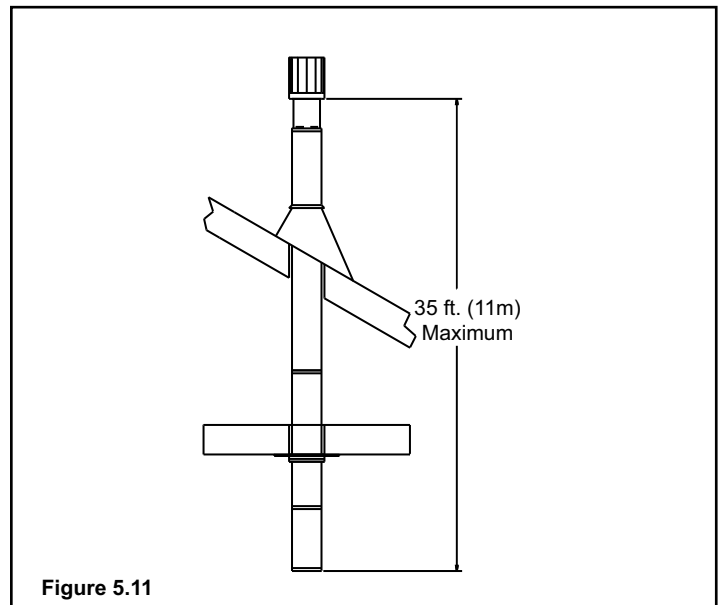


Figure 5.11

Step 2.

Set the gas appliance in its desired location. Drop a plumb bob down from the ceiling to the position of the appliance flue exit, and mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plumb bob from the roof to the hole previously drilled in the ceiling, and mark the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters, or other framing will obstruct the venting system. You may wish to relocate the appliance, or to offset, as shown in **Figure 5.12** to avoid cutting loadbearing members. When location is determined, drill small hole.

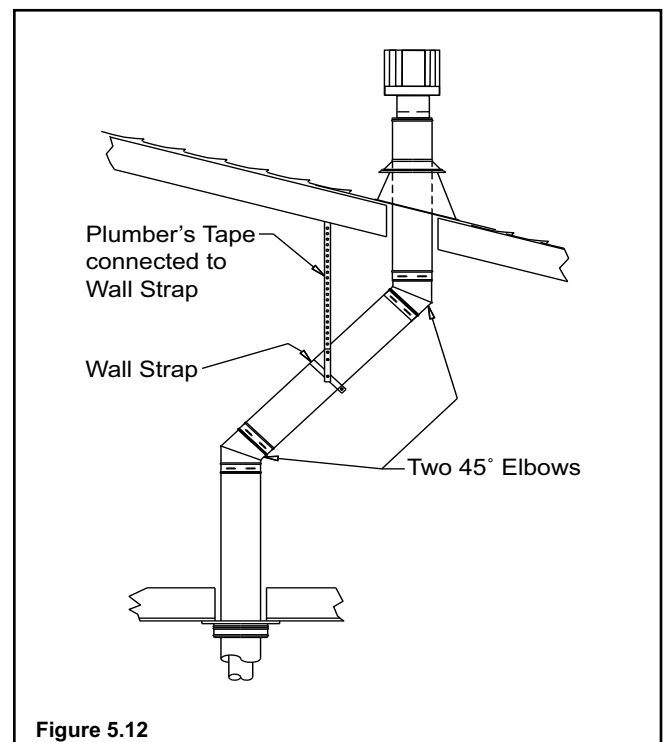
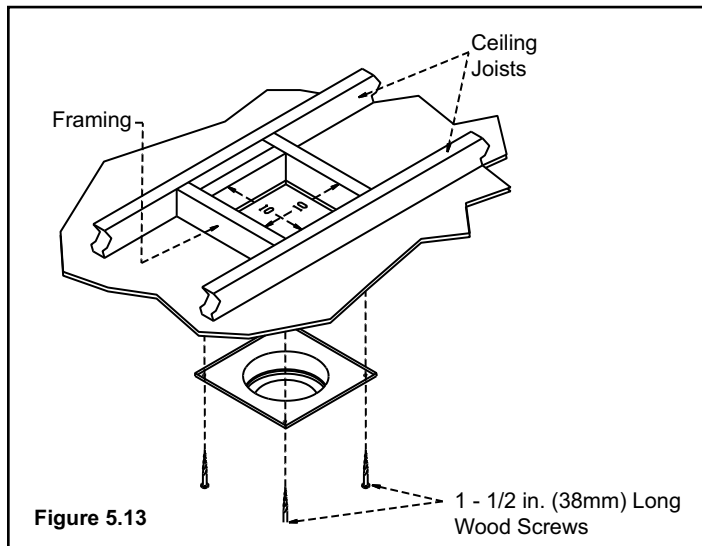


Figure 5.12

Step 3.

To install the round support box/wall thimble cover in a flat ceiling, cut a 10 in. (254mm) square hole in the ceiling, centered on the hole drilled in Step 2. Frame the hole as shown in **Figure 5.13**.



Step 4.

Assemble the desired lengths of pipe and elbows necessary to reach from the appliance up through the round support box. Ensure that all pipe and elbow connections are in their fully twist-locked position. Assemble as instructed.

Step 5.

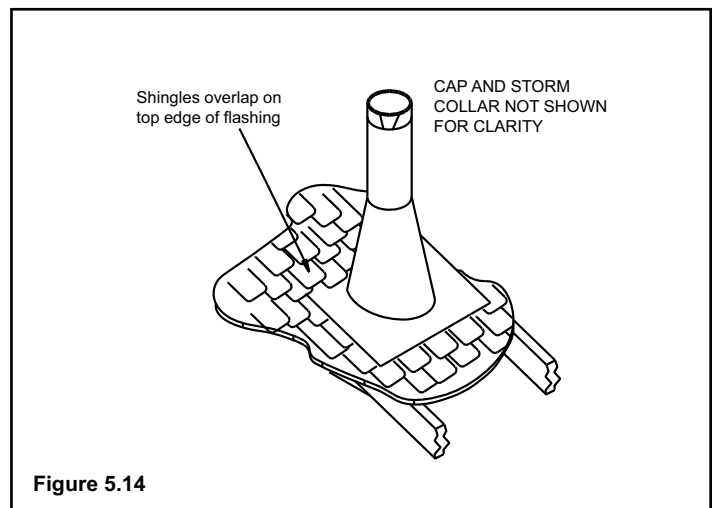
Cut a hole in the roof centered on the small drill hole placed in the roof in Step 2. The hole should be of sufficient size to meet the minimum requirements for clearance to combustibles, as specified. Continue to assemble lengths of pipe and elbows necessary to reach from the ceiling support box/wall thimble up through the roof line. Galvanized pipe and elbows may be utilized in the attic, as well as above the roofline. The galvanized finish is desirable above the roofline, due to its higher corrosion resistance.

NOTE:

- (1) If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3 ft. (914mm) to avoid excessive stress on the elbows, and possible separation. Wall straps are available for this purpose, **Figure 5.12**, page 15.
- (2) Whenever possible, use 45° elbows, instead of 90° elbows. The 45° elbow offers less restriction to the flow of flue gases and intake air.

Step 6.

Slip the flashing over the pipe section(s) protruding through the roof. Secure the base of the flashing to the roof with roofing nails. Ensure the roofing material overlaps the top edge of the flashing as shown in **Figure 5.14**. Verify that the chimney is the required height above the roof. See roof pitch table, **Figure 4.3**, on page 8.

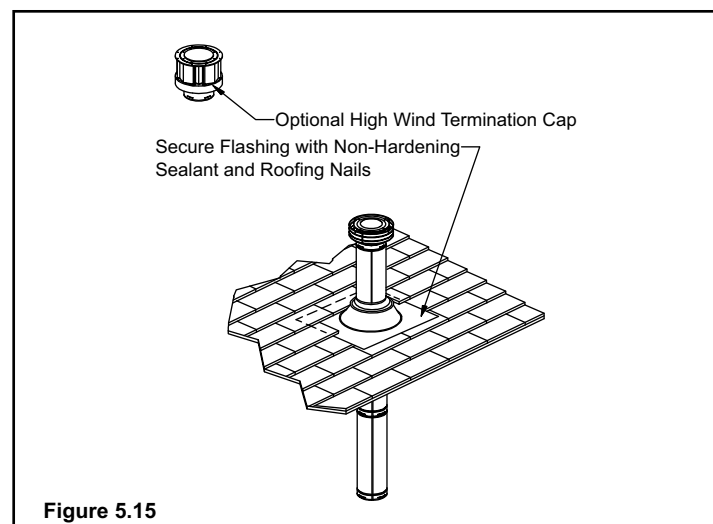


Step 7.

Continue to assemble pipe sections until the height of the vent (before adding the termination cap) meets the minimum code requirements as outlined in the current CAN/CGA-B149 Installation Codes (in Canada), the National Fuel Gas Code NFPA 54/ANSI Z223.1 (in USA), or local codes. Note that for steep roof pitches, the vent height must be increased. See Roof Pitch Table (**Figure 4.3**, on page 8). In high wind conditions, nearby trees adjoining rooflines, steep pitched roofs, and other similar factors can result in poor draft, or down drafting. In these cases increasing the vent height or switching to the high wind termination cap may solve this problem.

Step 8.

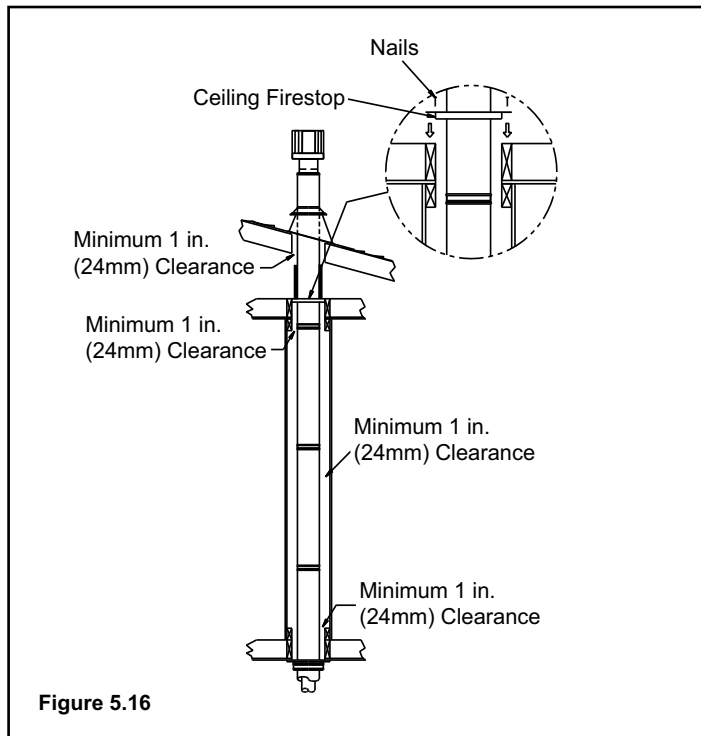
Slip the storm collar over the pipe, and push it down to the top of the flashing (**Figure 5.15**). Use non-hardening sealant above and below the joint between the storm collar and the pipe.



Step 9.

Twist-lock the vent cap and seal.

Note: For multi-story vertical installations, a ceiling firestop is required at the second floor, and any subsequent floors (**Figure 5.16**). The opening should be framed to 10 in. x 10 in. (254mm x 254mm) inside dimensions, in the same manner as shown in **Figure 5.13**, page 16.



WARNING

Fire Risk.

Explosion Risk.



- Any occupied areas above the first floor, including closets and storage spaces, which the vertical vent passed through must be enclosed. The enclosure may be framed and sheetrocked with standard construction materials; however, refer to these installation instructions for the minimum allowable clearance between the outside of the vent pipe and the combustible surfaces of the enclosure. Do not fill any of the required air space with insulation.

2. Cathedral Ceiling

Step 1.

Follow installation Steps 1 and 2 under vertical installation section, page 15.

Step 2.

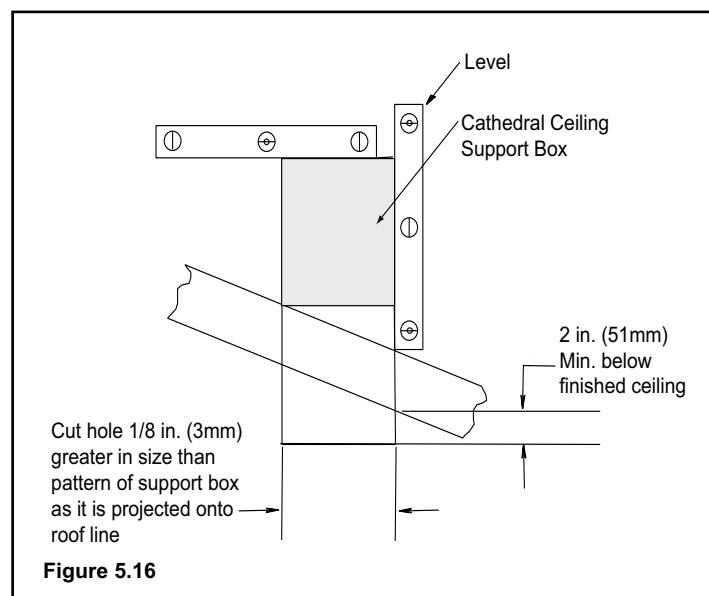
Using the plumb-bob, mark the center line of the venting system on the ceiling, and drill a small hole through the ceiling and roof at this point. From the roof, locate the drill hole and mark the outline of the cathedral ceiling support box.

Step 3.

Remove shingles or other roof covering as necessary to cut the rectangular hole for the support box. Cut the hole 1/8 in. (3mm) larger than the support box outline.

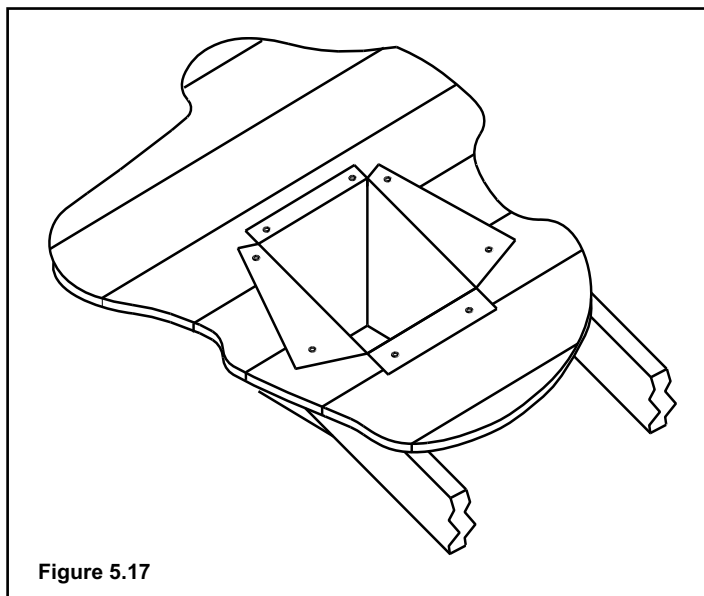
Step 4.

Lower the support box through the hole in the roof until the bottom of the support box protrudes at least 2 in. (51mm) below the ceiling (Figure 5.16). Align the support box both vertically and horizontally with a level. Temporarily tack the support box in place through the inside walls and into the roof sheathing.



Step 5.

Using tin snips, cut the support box from the top corners down to the roofline, and fold the resulting flaps over the roof sheathing (Figure 5.17). Before nailing it to the roof, run a bead of non-hardening mastic around the top edges of the support box to make a seal between it and the roof. Clean out any combustible material from inside the support box.



Step 6.

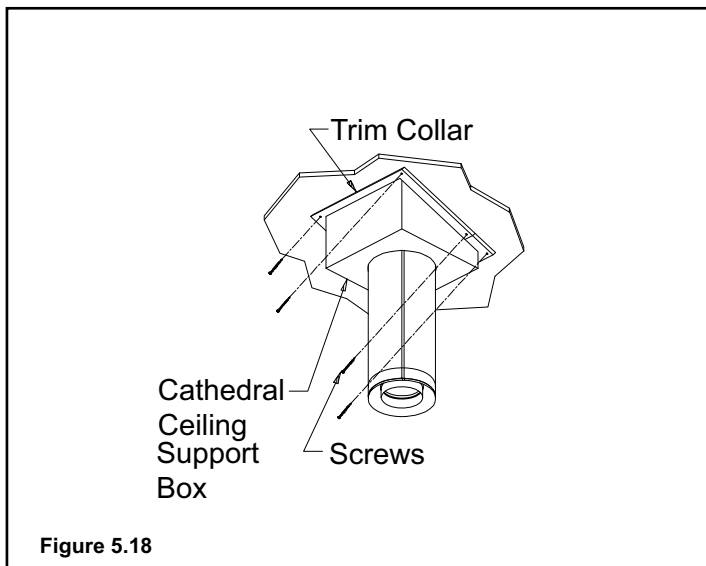
Complete the cathedral ceiling installation by following the same procedures outlined in steps 4 through 8 for vertical installations, page 16.

Step 7.

Place the support clamp (provided with the support box) inside the support box (at the bottom), and secure to the pipe section. The clamp allows the support box to support the weight of the pipe sections. Continue to add pipe sections until you are above the roofline.

Step 8.

Install the black trim collar around the outside of the cathedral ceiling support box (Figure 5.18). The two pieces of the trim collar slide over one another to allow for easy adjustment around the support box. Using the six screws provided, secure the four corners and the overlapping sections of the trim collar to the ceiling. You may want to predrill the holes for the overlapped sections for ease of installation.



3. Class A Metal Chimney

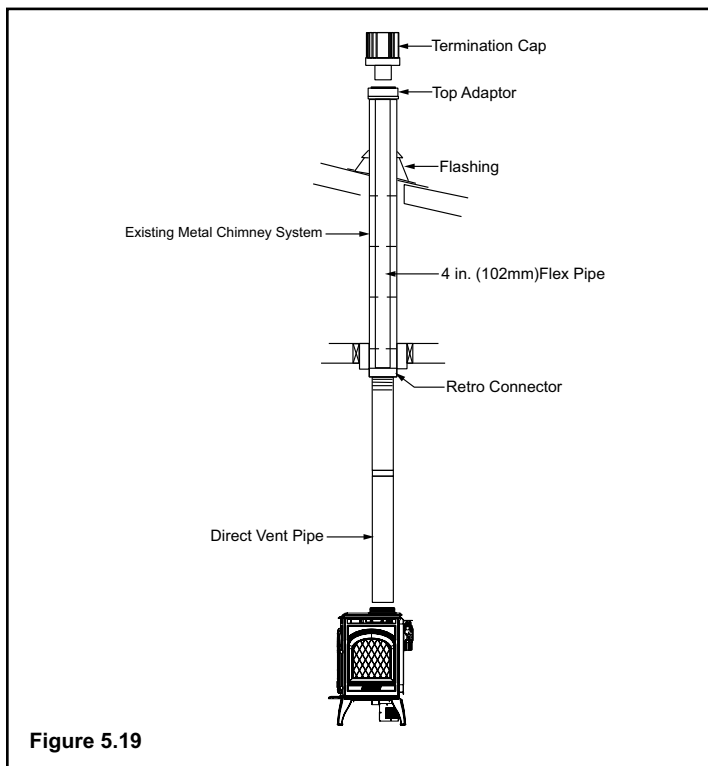


Figure 5.19

CAUTION

Ensure that existing chimney is functionally sound and clean.

- Have inspection done by qualified chimney sweep or professional installer BEFORE converting to direct vent appliance.

Step 1.

Remove existing chimney cap.

Step 2.

Measure the distance from the top of the chimney to the bottom of the ceiling support box, add 3 in. (76mm) to this measurement, and cut a section of 4 in. (101mm) flex pipe to that length (the flex should be fully extended).

Step 3.

Connect the end of the flex pipe section to the underside of the top adapter, using four sheet metal screws (Figure 5.20).

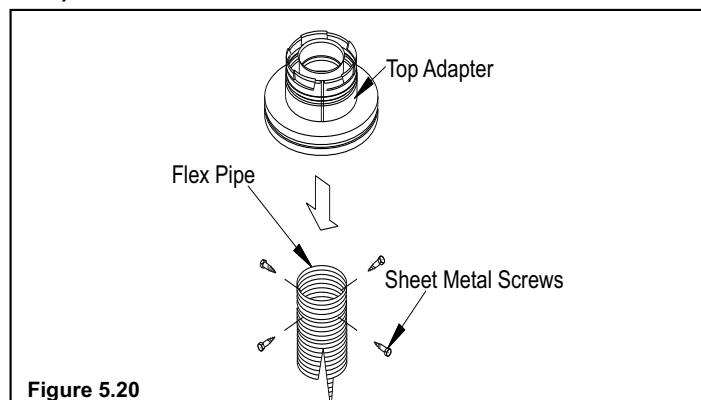


Figure 5.20

Step 4.

Pass the flex pipe down through the center of the chimney system, and center the top adapter on the top of the chimney pipe. Drill four 1/8 in. (3mm) diameter holes through the top adapter, and into the chimney top. Ensure that you are drilling into the metal on the chimney. Twist lock the high wind termination cap onto the top adapter (Figures 5.21 and 5.22).

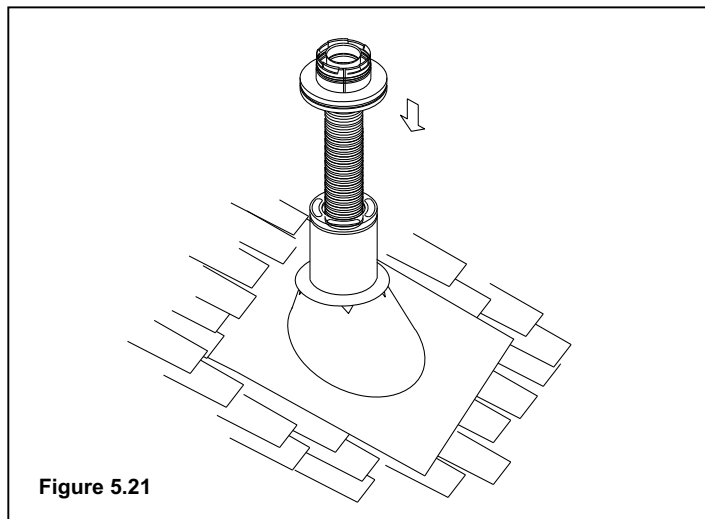


Figure 5.21

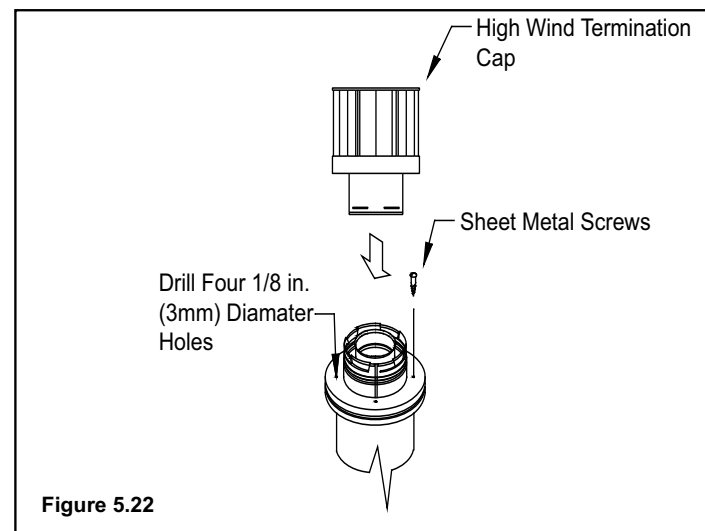


Figure 5.22

Step 5.

Pull the flex pipe down through the ceiling support box, until it protrudes approximately 3 in. (76mm). Connect the flex pipe to the retro connector, and attach with sheet metal screws.

Step 6.

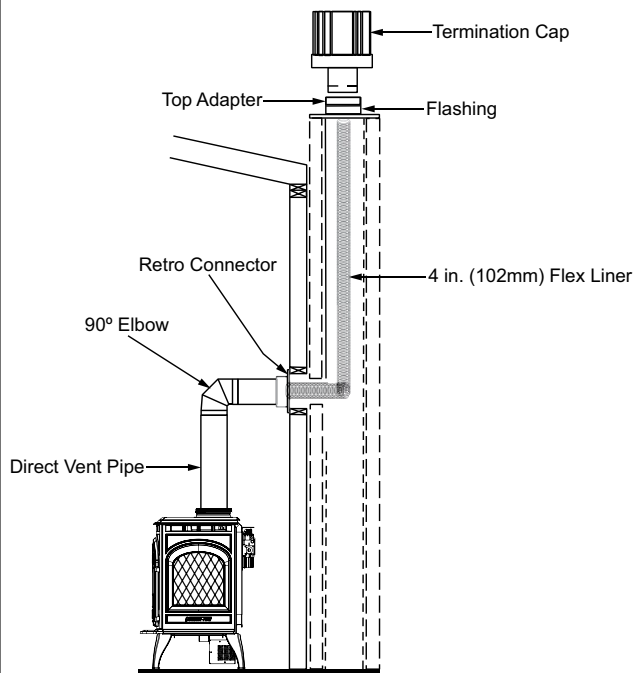
Push the flex pipe back up into the ceiling support box, center the retro connector, and attach it to the support box with sheet metal screws.

Step 7.

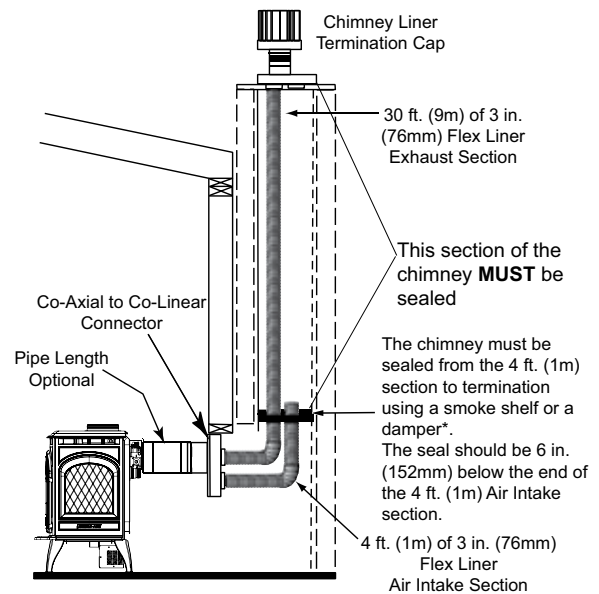
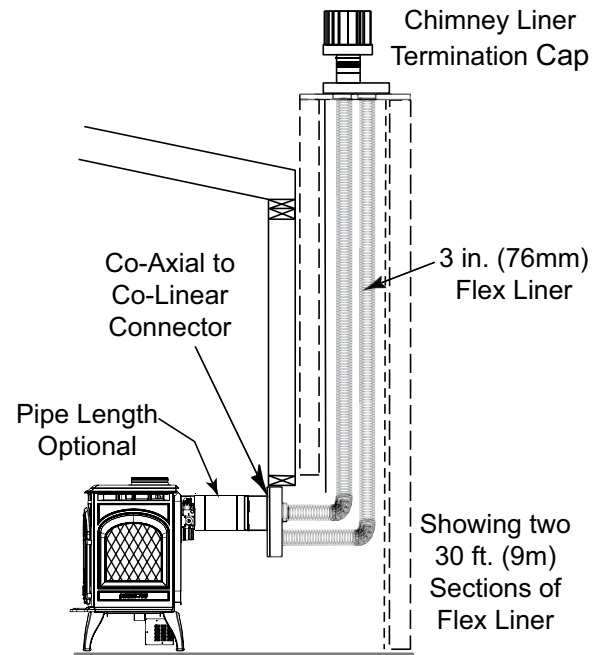
The connection between the appliance and the retro connector may be completed with sections of direct vent pipe.

4. Existing Masonry Chimney

Type A - Up & Out Installations for Top Vent Configurations



Type B - Hearth Rear Vent Installations for Use With Rear Vent Kit (see Section 12 for conversion kit and venting components.)



*In the Commonwealth of Massachusetts, the word damper shall be replaced with the words flue restrictor.

Figure 5.23

CAUTION

Ensure that existing chimney is functionally sound and clean.

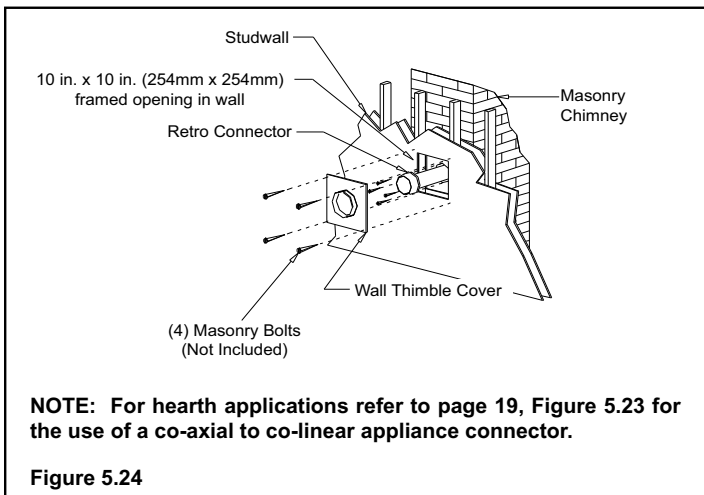
- Have inspection done by qualified chimney sweep or professional installer BEFORE converting to direct vent appliance.

Step 1.

Before cutting any holes, assemble the desired sections of direct vent pipe to determine the center of the masonry penetration.

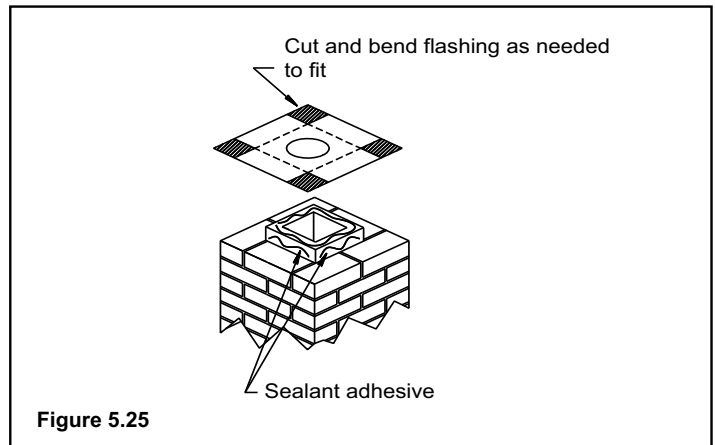
Step 2.

Once the center point of the penetration has been determined, cut a 6 in. (152mm) diameter hole in the masonry. If the hole is too large, the retro connector might not mount properly; if the hole is too small, the appliance might starve for intake air. If there is a frame wall in front of the masonry wall, cut and frame a 10 in. (254mm) square opening in the wall (centered around the 6 in. (152mm) masonry opening). If there is sheet rock only (no studs) in front of the masonry the 10 in. (254mm) opening is still needed, but does not need to be framed. If the hole is framed a round support box/wall thimble is required. This allows the retro connector to mount directly on the masonry and provide the correct clearances to combustibles (**Figure 5.24**).



Step 3.

Secure the flashing to the top of the masonry chimney using a bead of non-hardening sealant-adhesive. If the flashing is larger than the top of the chimney, cut and fold flashing as needed to fit chimney (**Figure 5.25**).



Step 4.


To determine the length of flex needed, measure from 3 in. (76mm) above the top of the flashing down to the level of the opening. Add the distance from the center of the chimney out through the wall. Cut a piece of 4 in. (102mm) flex to this length (extended to its nominal length). Be sure to leave 2-3 in. (51-76mm) of flex above the existing chimney to allow for connection to the termination kit.

Step 5.

Connect the flex liner to the top adapter using three sheet metal screws (**Figure 5.20**, page 19).

Step 6.

Feed the flex liner through the flashing into the chimney. Carefully feed the flex liner down the chimney to the bottom and out the opening in the masonry wall, forming an angle to line up the flex liner with the vent opening on the appliance.



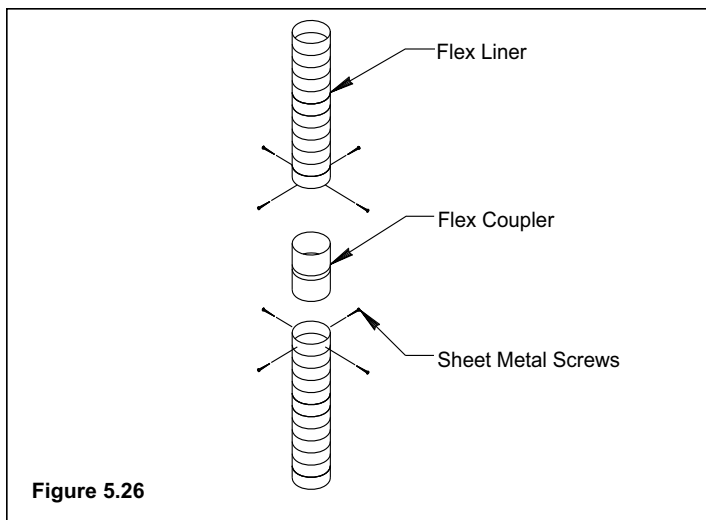
WARNING

Fire Risk.
Explosion Risk.

- Do not let the flex liner sag below the level at which it will connect to the appliance or connector. This could allow hot gas to become trapped and potentially become a fire hazard. The flex liner path should always be sloped up toward the termination cap.

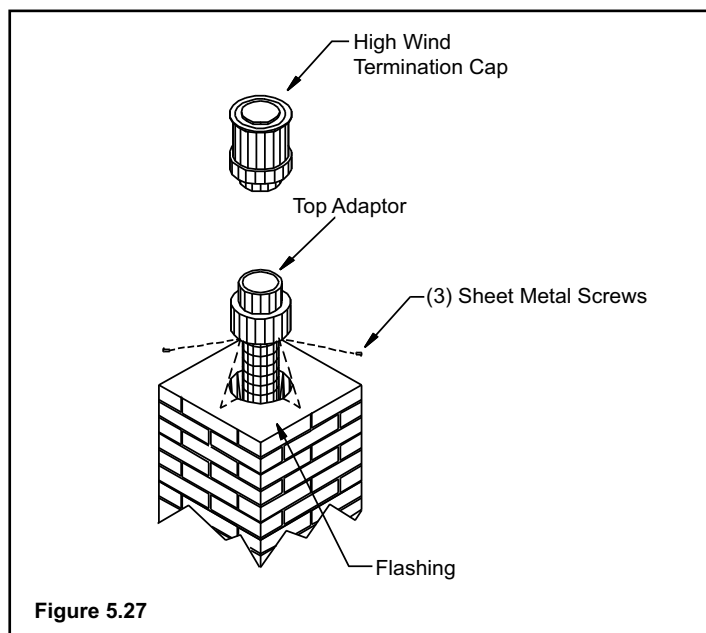
Step 7.

If additional lengths of flex liner are needed to span the chimney height, use a flex coupler to connect the pieces of flex liner together. Connect the flex to the coupler by using four sheet metal screws for each side (**Figure 5.26**, on the next page).



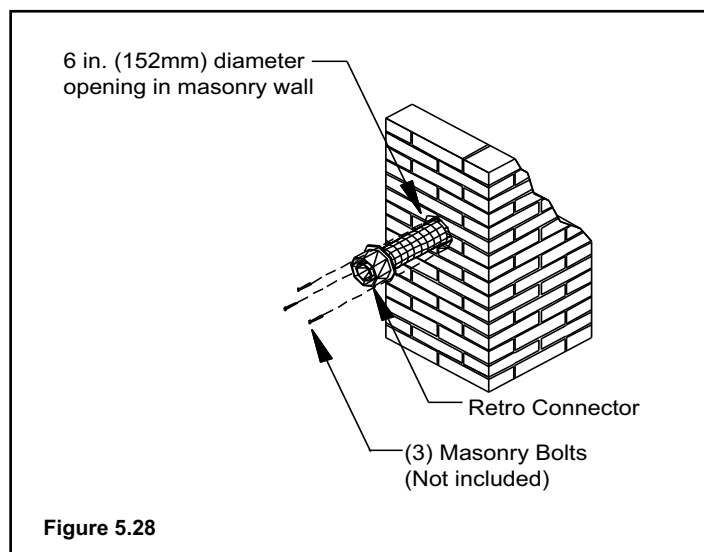
Step 8.

Secure the top adapter to the flashing. Use three sheet metal screws through the side of the top adapter into the flange on the flashing (**Figure 5.27**). Twist lock the high wind termination cap on to the top adapter.



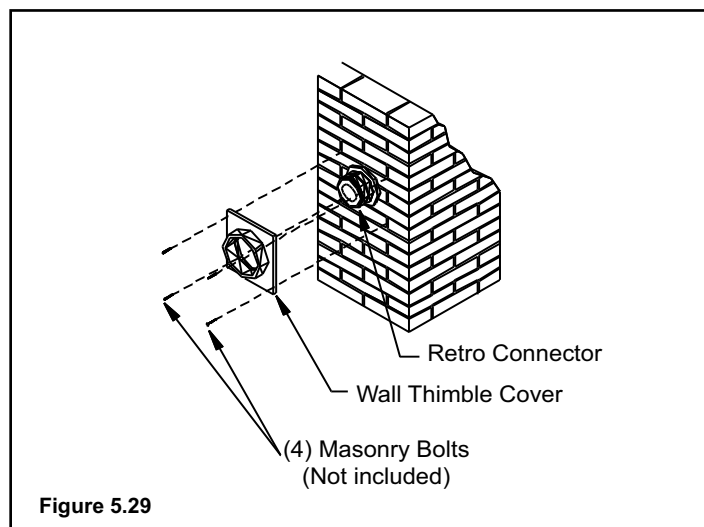
Step 9.

Attach the flex to the retro connector. Use three sheet metal screws to attach the flex liner to the connector (**Figure 5.28**). Mount the retro connector to the masonry wall using masonry bolts. Redrill larger holes on connector as needed. Be careful to ensure that the connector is centered in the opening and the mounting holes line up with the masonry wall.



Step 10.

Slide wall thimble cover over retro connector and secure with masonry bolts (**Figure 5.29**). If you have a framed wall in front of the masonry, use wood screws to mount wall thimble cover to framed wall, over retro connector and 10 in. (254mm) square framed opening (**Figure 5.24**, page 21). If needed, add a section of direct vent pipe to the retro connector in order to extend through the opening in the wall thimble cover.



Step 11.

The connection between the appliance and the retro connector may be completed with sections of direct vent pipe.

6

Gas Information

A. Fuel Conversions

Before making gas connections ensure that the appliance being installed is compatible with the available gas type.

Any natural or propane gas conversions necessary to meet the appliance and locality needs must be made by a qualified technician using Hearth & Home Technologies specified and approved parts.

1. Converting to LP Gas

NOTE: Gas conversions should only be performed by a qualified service person, and/or where required by state and local codes, licensed installer/service technician. In the Commonwealth of Massachusetts, installation must be performed by a licensed plumber or gas fitter.

KIT CONTENTS: Replacement orifice; replacement pilot injector; valve regulator; and conversion label.

TOOLS REQUIRED: Power drill (a 90° handle is helpful); #2 Phillips bit; 5/32" Allen wrench; 5/8" open end wrench.

IMPORTANT NOTE! The orifice supplied with this conversion kit is for **TOP VENT MODELS ONLY**. If your stove was fitted with the rear vent kit, the correct conversion orifice was supplied **WITH THE REAR VENT KIT**.

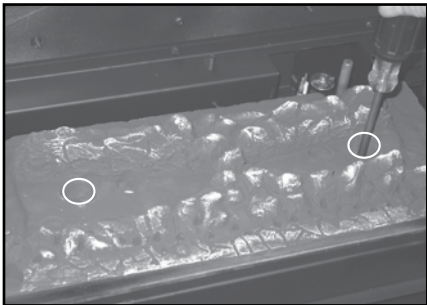


Figure 6.1 Remove front (if installed), glass, and logs (if installed.) Using the #2 Phillips screwdriver remove the two (2) 1/4" x 20 screws securing the burner as indicated. Lift burner out of firebox.

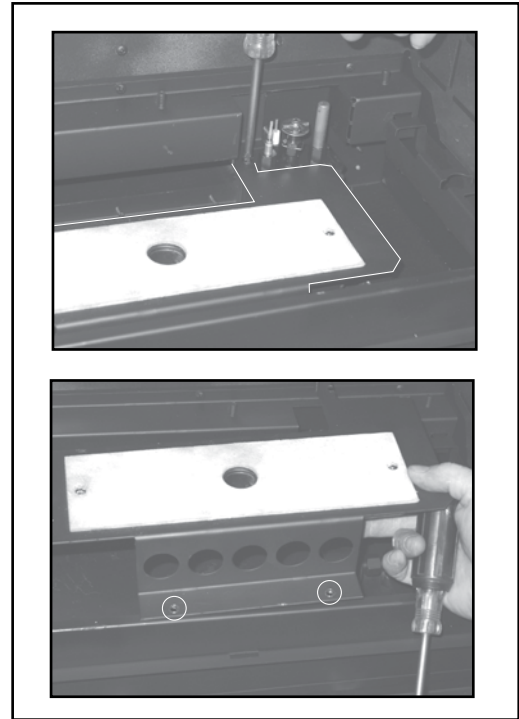


Figure 6.2 Remove the burner support by **loosening** the left screw on the pilot tower, and removing the two screws on the front side of the burner neck support.

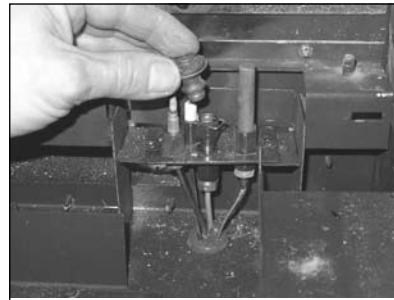


Figure 6.3 Slide the burner neck support to the left. Pull off pilot hood and set aside.

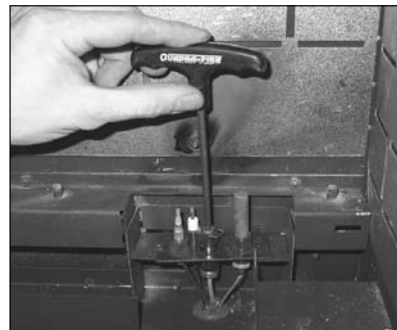


Figure 6.4 Use a 5/32" Allen wrench to remove the pilot injector.

Replace pilot injector with the one supplied in the conversion kit (#35 for Propane, #62 for Natural Gas).

NOTE: The injector is **ONLY** replaced if you are converting to another gas. It is not replaced for a change from top to rear vent.

Replace pilot hood, snapping into position.

Remove main burner orifice using a 5/8" wrench.



Figure 6.5 Replace orifice with the proper size as indicated below for your gas type and venting. Re-install burner. Slide burner neck into shutter and over orifice. Re-install burner pan locators on left and right side of the burner. Secure with one screw to each side.

Replace logs, glass door and front.

	PROPANE	NATURAL GAS
Top Vent	.063 (52 DMS)	.106 (36 DMS)
Rear Vent (no vertical)	.059 (53 DMS)	.096 (41 DMS)

IMPORTANT NOTE! The orifice supplied with the conversion kit is for installations with vertical rise. If your appliance was fitted with the rear vent kit, the correct conversion orifice was supplied **WITH THE REAR VENT KIT**.

2. Valve Regulator Replacement

WARNING

Fire Risk.
Explosion Risk.

- Disconnect any electrical cords and turn off gas supply to unit before proceeding if converting fuel on an appliance already fully installed.

Remove upper and lower back shield. Loosen the set collars on the extension rods with the 3/32 in. Allen wrench. Remove the rods and adapter cap.

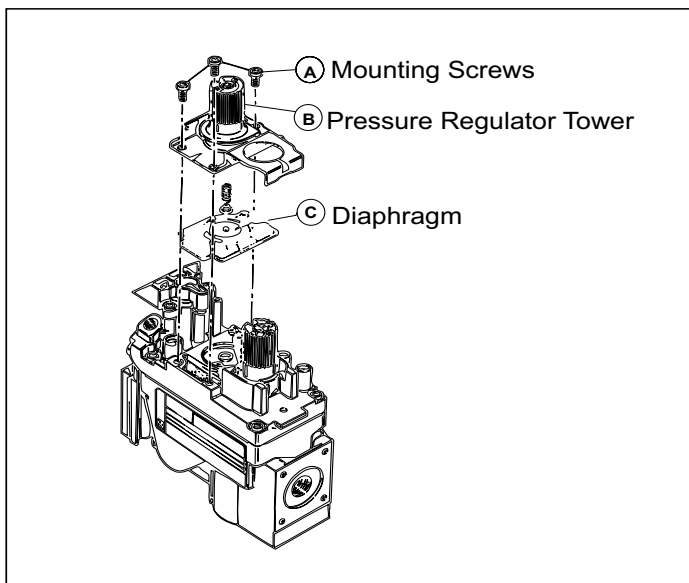


Figure 6.6 Turn control knob to the OFF position, ensure that gas supply to the valve has been turned off. Using a Torx TH20, or slotted screwdriver, remove the three pressure regulator mounting screws (A), pressure regulator tower (B), and diaphragm (C).

B. Gas Pressures

Proper input pressures required for optimum appliance performance, gas line sizing requirements need to be followed from NFPA51.

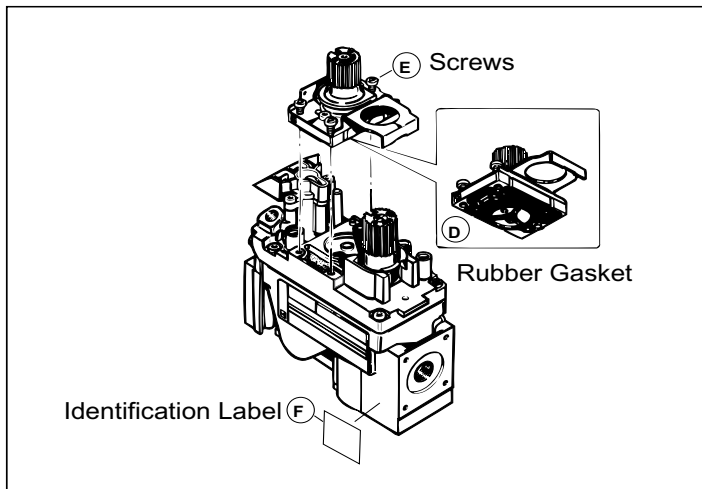




Figure 6.7 Ensure that the rubber gasket (D) is properly positioned and install the new HI/LO pressure regulator assembly to the valve using the new screws (E) supplied with the kit. Tighten screws securely. (Reference torque = 25 in./lb.) Install the enclosed identification label (F) to the valve body where it can be seen.



Fill out the conversion label and attach it to the valve cover.



WARNING

Fire Risk.
Explosion Risk.
Gas Leak Risk.

- Rubber gasket must be seated properly on valve face.
- Do no install a valve or regulator that has been dropped.



WARNING

Fire Risk.
Explosion Risk.

- 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 conversion 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.

WARNING



- Fire Risk.
Explosion Hazard.
High pressure will damage valve.
- Disconnect gas supply piping **BEFORE** pressure testing gas line at test pressures above 1/2 psig.
 - Close the manual shutoff valve **BEFORE** pressure testing gas line at test pressures equal to or less than 1/2 psig.



WARNING



- Verify inlet pressures.
- High pressure may cause overfire condition.
 - Low pressure may cause explosion.
 - Verify minimum pressures when other household gas appliances are operating.
- Install regulator upstream of valve if line pressure is greater than 1/2 psig.



Pressure requirements for appliance are shown in the table below.

PRESSURE	NG	LP
Minimum Inlet Pressure	5 inches w.c.	11 inches w.c.
Maximum Inlet Pressure	10 inches w.c.	13 inches w.c.
Manifold Pressure on "HI"	3.5 inches w.c.	10 inches w.c.

If the pressure is not sufficient, ensure:

- 1) the piping used is large enough.
- 2) the supply regulator is adequately adjusted.
- 3) that the total gas load for the residence does not exceed the amount supplied.

The supply regulator (the regulator that attaches directly to the residence inlet or to the propane tank) should supply gas at the suggested input pressure listed above. Contact the local gas supplier if the regulator is at an improper pressure.

C. Gas Connection

NOTE: Have the gas supply line installed in accordance with local building codes, if any. If not, follow ANSI Z223.1. Installation should be done by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts, installation must be performed by a licensed plumber or gas fitter.)

NOTE: A listed (and Commonwealth of Massachusetts approved) 1/2 inch (13mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 inch (13mm) control valve inlet.

- **If substituting for these components, please consult local codes for compliance.**

WARNING



Gas Leak Risk.

- Support control when attaching pipe to prevent bending gas line.

NOTE: The gap between the supply piping and gas access hole may be plugged with non-combustible insulation to prevent cold air infiltration.

Leak test all gas line joints and the gas control valve prior to and after starting the fireplace.

Before making the gas connection, ensure that the appliance you are installing is designed for the type of gas being supplied. This information can be found on the Ratings Label under the appliance. If the appliance has been converted to propane (LP), the valve cover should have a label stating that the unit has been converted to propane.

Connect the gas line at the 3/8 in. (9.5mm) pipe connector on the valve at the back of appliance. We recommend connecting the appliance with an approved flex gas line. If flex gas lines are not approved in your area, you must connect a hard pipe to the gas hookup.

You must supply a manual shut-off valve in a visible location within 3 ft. (914mm) of the appliance.

- A small amount of air will be in the gas supply lines. When first lighting appliance it will take a short time for air to purge from lines. When purging is complete the appliance will light and operate normally.

Air only needs to be purged again if gas valve has been turned to the OFF position.

WARNING



Fire or Explosion Hazard

- Gas build-up during line purge may ignite.
- Purge should be performed by qualified technician.
- Ensure adequate ventilation.
- Ensure there are no ignition sources such as sparks or open flame.



WARNING



CHECK FOR GAS LEAKS

Explosion Risk
Fire Risk
Asphyxiation Risk

- Check all fittings and connections.
- Do not use open flame.
- After the gas line installation is complete, all connections must be tightened and checked for leaks with a commercially-available, non-corrosive leak check solution. Be sure to rinse off all leak check solution following testing.



Fittings and connections may have loosened during shipping and handling.

WARNING



Fire hazard.

Do NOT change the valve settings.

- This valve has been preset at the factory.
- Changing valve settings may result in fire hazard or bodily injury.

Omni-Test Laboratories listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2000 feet in the U.S.A. and 0 to 4500 feet in Canada.

When installing this appliance at an elevation above 2000 feet, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 feet above a 2000 foot elevation in the U.S.A. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4500 feet (in Canada), check with local authorities.

7

Electrical Information

A. Recommendation for Wire

See B5 below for recommended maximum lead length (two wire) when using wall thermostat/switch.

NOTE: This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with **National Electric Code ANSI/NFPA 70-latest edition** or the **Canadian Electric Code, CSA C221.1**.

B. Connecting to the Appliance

WARNING



Wire 110v to electrical junction box.
Do NOT wire 110v to the valve.
Do NOT wire 110V to wall switch.
• Incorrect wiring will damage millivolt systems.



1. This appliance may be used with a wall switch, wall mounted thermostat and / or a remote control.
2. If using thermostat, use one compatible with a millivolt gas valve system.
3. Follow parameters for locating thermostat (see individual thermostat instructions) to ensure proper operation of appliance.
4. Use low resistance thermostat wire for wiring from ignition system to the wall switch and thermostat.
5. Use the following chart for wire sizing.

Wire Size	Max. Length
16 gauge	65 feet
18 gauge	40 feet
20 gauge	25 feet
22 gauge	18 feet

6. Keep wire lengths as short as possible by removing any excess wire length.
7. Low voltage and 110 VAC voltage cannot be shared within the same wall box.

8. Ensure the thermostat is mounted level for accurate readings.
9. The thermostat should be mounted on an inside wall and not in direct line with the appliance convection air.
10. If the thermostat is located too close to the appliance, you may need to set the temperature setting slightly higher to maintain the desired temperature in your home.

Do not connect this appliance to a thermostat serving any other appliance.

Bedroom installation in Canada requires this appliance to be connected to a thermostat.

WARNING



Shock hazard.

- This appliance is equipped with a three pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three prong receptacle. Do not cut or remove the grounding prong from this plug.

C. Standing Pilot Ignition System Wiring

This appliance **DOES NOT** require 110 VAC supply for operation. A wiring diagram is shown in **Figure 7.1** on the next page.

This appliance is equipped with a millivolt control valve.

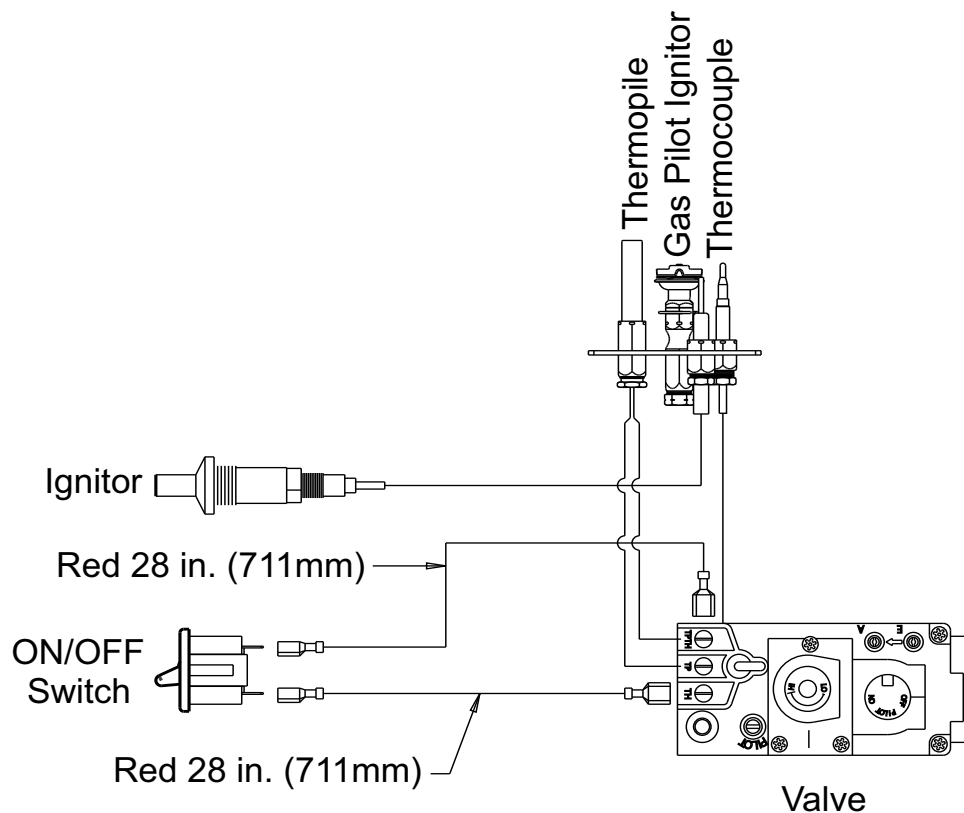


Figure 7.1

CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.



CAUTION

Shock hazard.

- Replace damaged wire with type 105° C rated wire.
- Wire must have high temperature insulation.

8

Appliance Setup

A. Remove Shipping Materials

Remove shipping materials from inside or underneath the firebox.

B. Top and Rear Vent Conversion

KIT CONTENTS: Rear vent grill; .096 NG orifice; .059 LP orifice; Rear Vent Cover Plate, Top Grill Cover Plate

TOOLS REQUIRED: Power drill; #2 Phillips bit; 5/32 in. Allen wrench; 5/8 in. open end wrench; high-temp silicone sealant (optional.)

1. Convert to Rear Vent

At the REAR of the appliance:

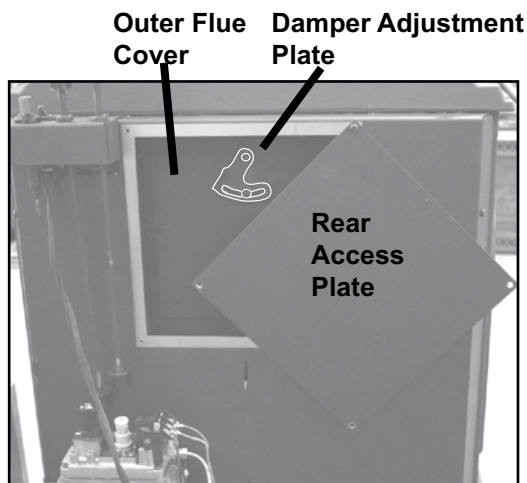


Figure 8.1 Remove rear access plate on the back shield and discard.



Figure 8.2 Remove the rear outer flue cover plate (with the damper adjustment plate attached). Ensure that the gaskets and grommets stay in place.

Remove the inner flue cover plate and set aside.

At the TOP of the appliance, with exceptions noted:



Figure 8.3 Lift out the cast insert piece on top of the appliance.

Remove the outer flue collar and inner collar adapter, and set aside. Ensure that the gasket is intact; if not, high temperature silicone can be used as an alternative to gasket replacement as indicated in **Figure 8.4** on the next page. Remove the screws retaining the inner flue collar.

Lift out the inner flue collar with damper in place.

NOTE: In the Commonwealth of Massachusetts, the word damper shall be replaced with the words flue restrictor.

CAUTION	
	<p>Sharp Edges</p> <ul style="list-style-type: none">• Wear protective gloves and safety glasses during installation.

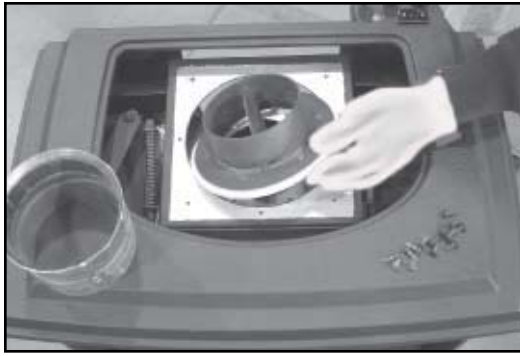


Figure 8.4 Install the inner flue collar **on rear of appliance**, with damper rod pointing up. A dab of high temperature silicone on the gasket will help gasket adhere to the appliance.

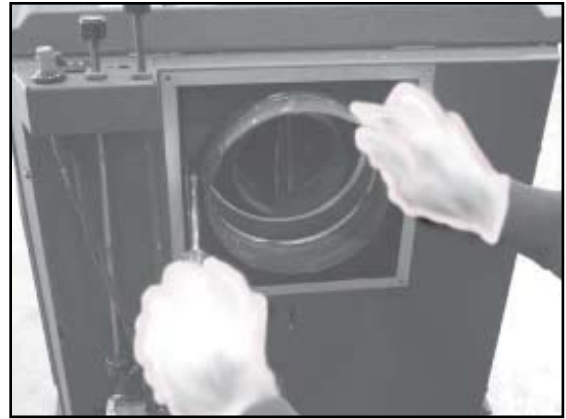


Figure 8.7 Install the inner collar and outer flue collar on the rear of the appliance.

Install the rear vent cover plate, supplied with the kit, on the back shield.

Reinstall the cast insert piece in the top of the appliance.

NOTE: A grill cover plate is shipped with the appliance. This plate may be placed beneath the top grille. The use of the plate increases blower efficiency and also hides the interior of appliance from view. See next page for installation instructions.

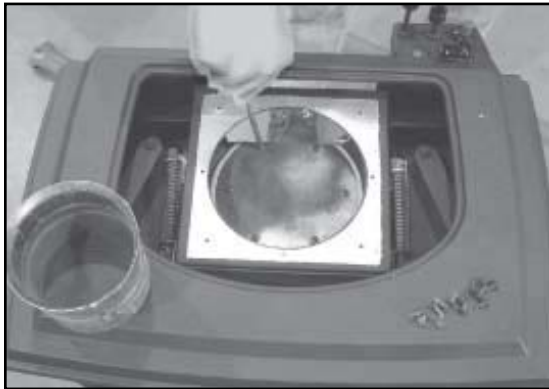


Figure 8.5 Install the inner flue cover on top of the appliance, ensuring that the damper rod is in the up position.

2. Replace Burner Orifice for Horizontal Vent Configurations

Remove front, glass, and logs (if installed).

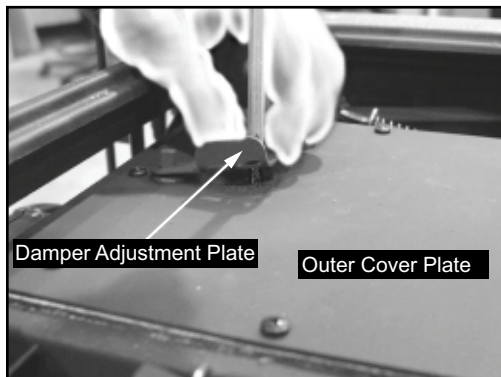


Figure 8.6 Install the outer flue cover, with damper adjustment plate attached, **to the top of the appliance**.

On top of the appliance: Reattach the damper adjustment with screw.

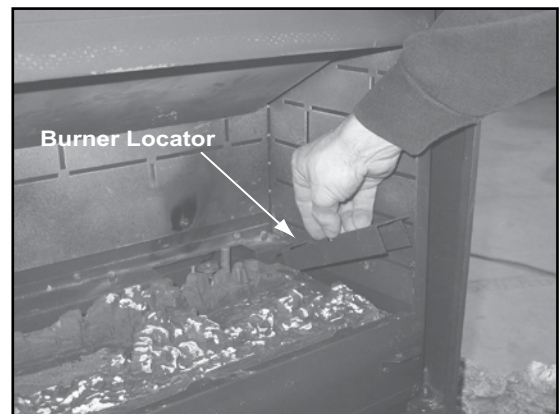


Figure 8.8 To remove the burner pan locators from the left and right sides of the burner, remove one screw from each side, lift locators up and out.



Figure 8.9 Remove burner by sliding the shutter to the right, lifting up the left side of the burner and sliding it the the left.

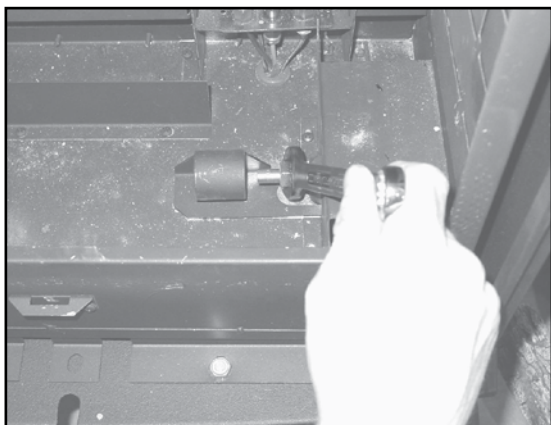


Figure 8.10 Remove the main burner orifice using a 5/8 in. wrench.

Replace the orifice with the proper size as indicated for your gas type.

PROPANE	NATURAL GAS
.059 (53 DMS)	.096 (41(DMS)

NOTE: If the venting configuration has no vertical rise, a derating orifice must be installed. The derating orifices are supplied with the rear vent conversion kit.

Reinstall the burner. Slide the burner neck into the shutter and over the orifice. Refer to **Figure 8.10**.

Reinstall the burner pan locators on the left and right side of the burner. Secure with one screw to each side.

Install logs, referring to instructions on page 33.

Replace glass door and front.

C. Grille Cover Plate Installation

Top grill cover is shipped with the appliance and is an optional use item. It may be used with rear or top venting. Primarily its purpose is to hide the interior of the top of the appliance from being viewed through the top grill piece. Its use will also increase the efficiency of the blower, if a blower is installed on the appliance.

To prepare the part for use you will need tin snips, pliers and a hammer.

1. **For use with top venting:** See **Figure 8.11**, below.
Use the tin snips to cut the straight edges.
2. Gently bend the piece until the two attached sections of the circular area snap apart. Discard this piece.
3. Bend the tabs up towards the black painted side.
4. With the top grill lying face down, set the black painted side of grill cover onto the grill.
5. Use the hammer to tap on the four speed nuts (also supplied with the appliance.)
6. **For use with rear venting:** Follow steps 3 through 5, leaving the cover piece intact.

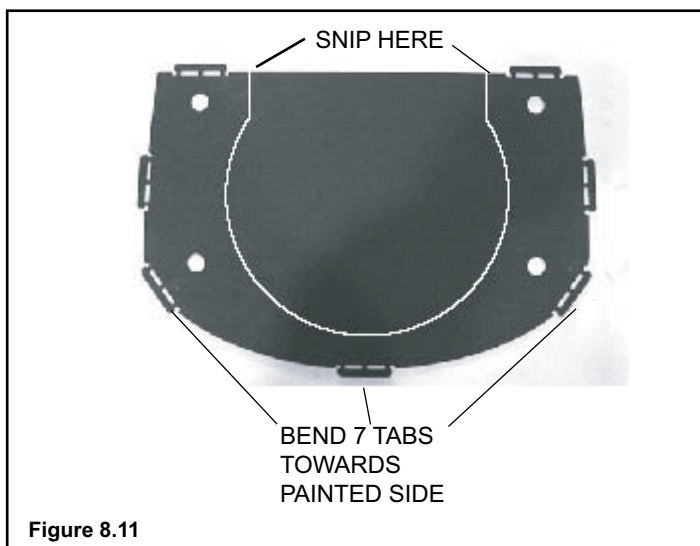


Figure 8.11

D. Accessories

Install approved accessories per instructions included with accessories. Refer to Section 12 for appropriate accessories.



WARNING

Shock or fire risk.

Use **ONLY** optional accessories approved for this appliance.

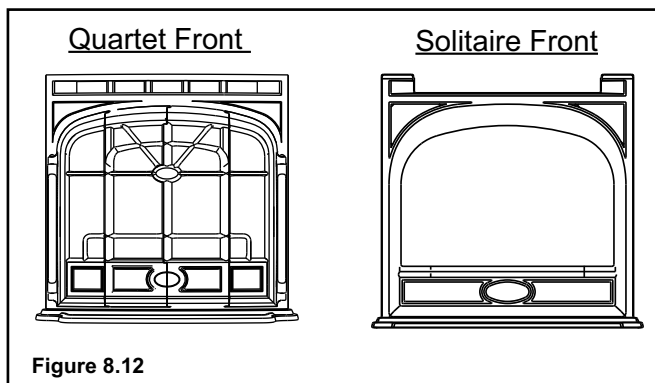
- Using non-listed accessories voids warranty.
- Using non-listed accessories may result in a safety hazard.
- Only Hearth & Home Technologies approved accessories may be used safely.



E. Front Installation

Fronts are shipped attached to the face.

INSTALLATION AND REMOVAL INSTRUCTIONS FOR QUARTET AND SOLITAIRE FACE OPTIONS.



For BOTH Quartet and Solitaire Fronts:



Figure 8.13 To remove the face, loosen the thumb bolt beneath the ashlip.

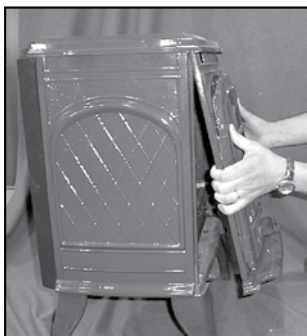


Figure 8.14 Lift up on the top of the Front, gently pulling out on the bottom. Set aside in a safe location.

Instructions continue for Quartet Front only:

Doors ship attached to the face. If they have been removed, follow instructions below.

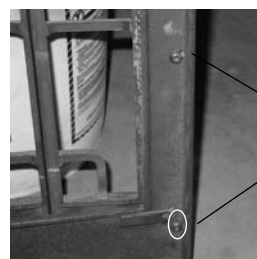
Install one door at a time. Slide the bottom hinge rod into the lower hinge box hole on the face.



Figure 8.15 Place a washer on the top of the door hinge. Line up the hole in the door hinge and the washer with the hole in the hinge box of the face. Place a gold-plated hinge pin in the hole to secure.

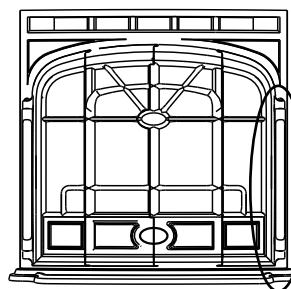
Quartet Door Alignment

Doors are properly aligned at the point of manufacture. However, the possibility exists for them to become out of alignment during shipping. To correct this occurrence, follow the instructions below.



Allen head bolts
on back of Quartet
Face - 2 per side.

Figure 8.16 Back of Quartet Face: Locate the two Allen head bolts connecting the hinge bar to the face. The hinge bar can be adjusted left or right.



Hinge Bar-make
adjustment right
or left.

Figure 8.17 Use a 5/32 in. Allen head wrench and loosen the Allen head bolts. Make necessary adjustment (move hinge to right or left, for proper fit and operation of doors, and retighten Allen bolts.

F. Hearth Legs Installation

NOTE: HEARTH LEGS CANNOT BE USED IF A BLOWER IS INSTALLED AS THERE WILL NOT BE ENOUGH CLEARANCE.

Refer to Section 12 for specific color part numbers.

Hearth legs will allow three additional inches of clearance. Be sure to calculate this distance correctly if necessary to cut wall hole to install horizontally. Refer to Dimensions on in Section 12.

To change legs, use a 1/2 in. wrench to remove and replace one leg at a time while the appliance is in an upright position.

G. Positioning the Logs

While still breakable, the logs do not become fragile until after the appliance is burned and they have cured. After curing, any handling must be done with care as breakage can easily occur.

PLEASE NOTE: Logs have been designed to work specifically with the burner of this appliance. Exact placement will ensure proper operation of your gas appliance and reduce sooting.

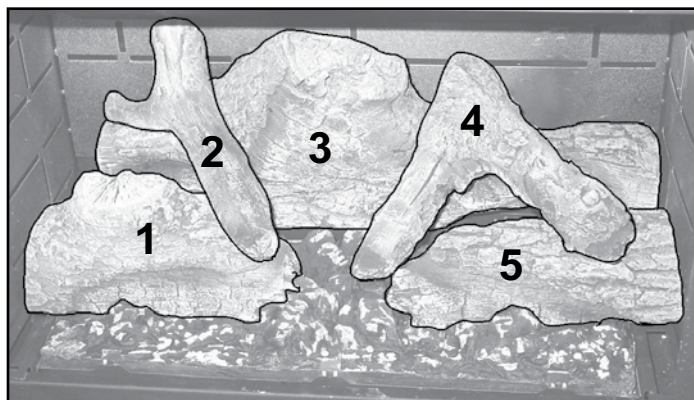


Figure 8.18 The log set is packed in the components box and consists of the following:

Qty.	Description	#
1	Rear Log	3
1	Left Partial Log	1
1	Right Partial Log	5
1	Left Twig	2
1	Right Twig	4



Figure 8.19 Set the rear log on the three locator pins in the back of the firebox.

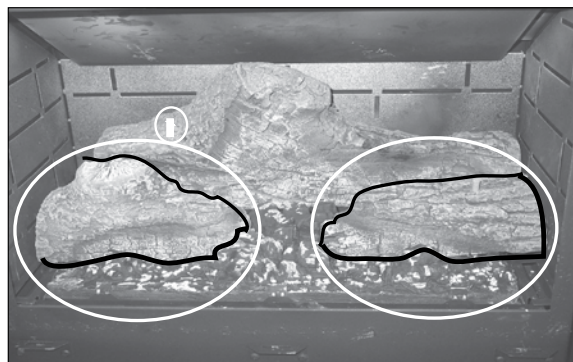


Figure 8.20 Set left and right partial logs (with butt end towards the side of the appliance firebox) in the grooves provided on the burner surface.

Locate the pin hole on the bottom of the right and left twigs and situate them over the white pins, one is located on the rear log and the other is on the right partial log.

H. Mineral Wool

WARNING



Explosion Risk.

- Follow ember placement instructions in manual.
- Do NOT place embers directly over burner ports.
- Replace ember material annually.

Improperly placed embers interfere with proper burner operation.

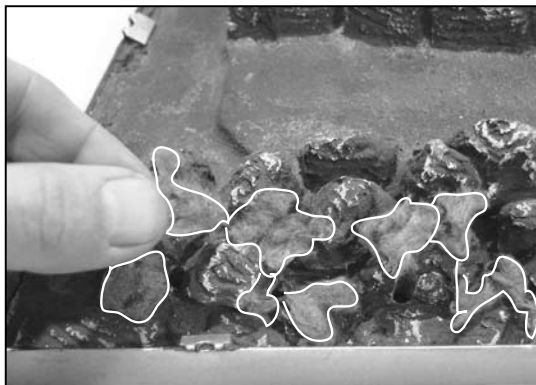


Figure 8.21 Place individual pieces of embers in front of and around the gas log where they can be seen. Space them so that gas can contact them on all sides. Avoid stacking the embers on top of each other.

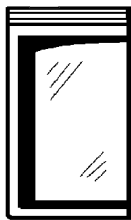
NOTE: Do not block gas ports.

I. Glass Door Assembly Installation

Remove the glass door assembly by opening latches at the bottom front of the appliance, on both the left and right sides. Lift out and away from the appliance.

Replace with a new glass door assembly.

CAUTION



Handle glass assembly with care.

- Inspect the gasket to ensure it is undamaged.
- Inspect the glass for cracks, chips or scratches.
- Do NOT strike, slam or scratch glass.
- Do NOT operate appliance with glass door removed, cracked, broken or scratched.
- Replace glass assembly as a complete assembly.

J. Blower Installation

FROM THE KIT YOU WILL NEED: Blower motor; snap disc bracket with wire harness; rheostat, rheostat nut; knob; screws; 1 zip-tie.

TOOLS REQUIRED: #2 Phillips head bit; hand drill; 11/16 in. wrench.



Figure 8.22 Mount blower to rear of the appliance using two screws.

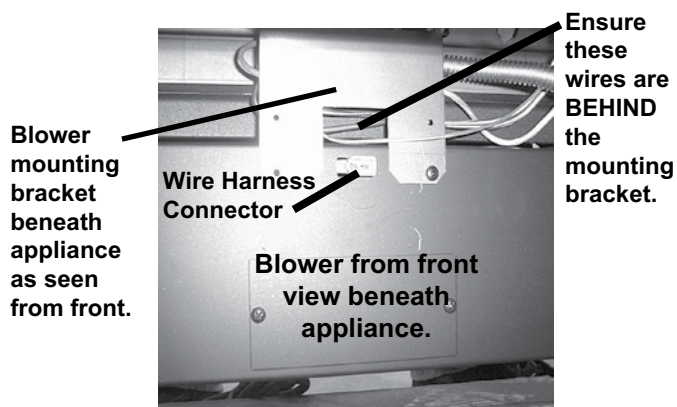


Figure 8.23 Beneath the appliance from its front side, ensure that all wiring is moved behind the blower mounting bracket which already comes installed on the bottom of the appliance. Complete blower mounting by inserting two screws through the blower into the mounting bracket. Make the wire harness connection.

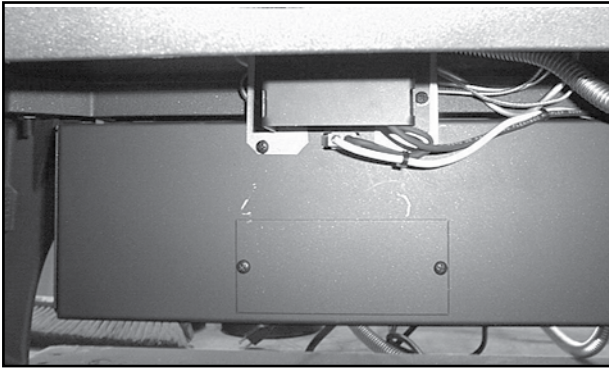


Figure 8.24 Use two screws to connect the snap disc bracket to the blower mounting bracket.

Route the wires from the snap disc to the right, upper edge of the blower.

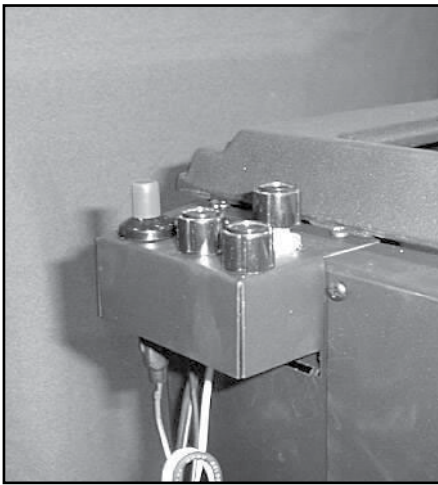


Figure 8.25 Insert the rheostat control into its opening from beneath the control panel. Fit the rheostat nut on top and tighten the nut using an 11/16 in. wrench. Attach the black knob.

Gather any excess in the wiring and zip-tie to the switch wires and piezo wire at the rear of the appliance.

NOTE: This blower utilizes a snap disc to control ON and OFF operation. When the correct temperature is reached, the blower will automatically turn ON. Use the rheostat knob to adjust the fan to High or Low to suit your preferences.

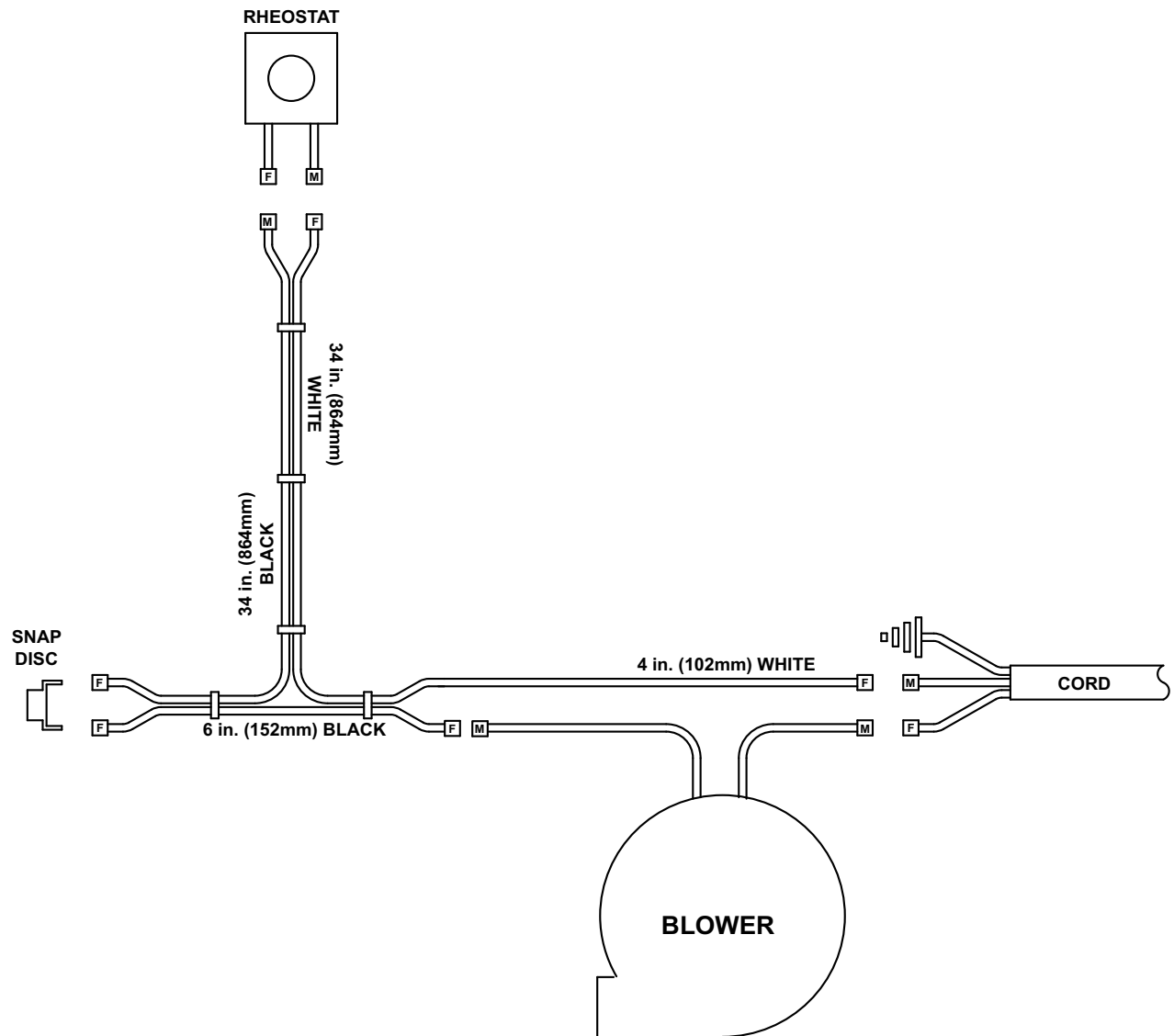


Figure 8.26 Blower Wiring Diagram

K. Damper Adjustment

FOR TOP OR REAR VENT INSTALLATIONS

See vent graph for recommendations on page 11 before you begin your adjustment. If your installation falls within the range of the gray shaded area of graph, it may be necessary to make an adjustment to the vertical damper to improve the flame appearance in your appliance.

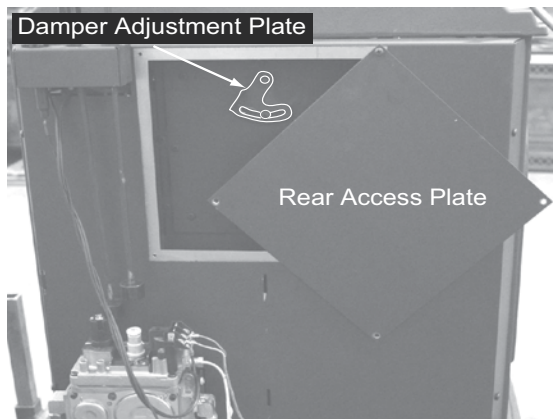


Figure 8.27 TOP VENT INSTALLATIONS: Locate the damper adjustment control at the rear of the appliance behind the rear vent access plate.

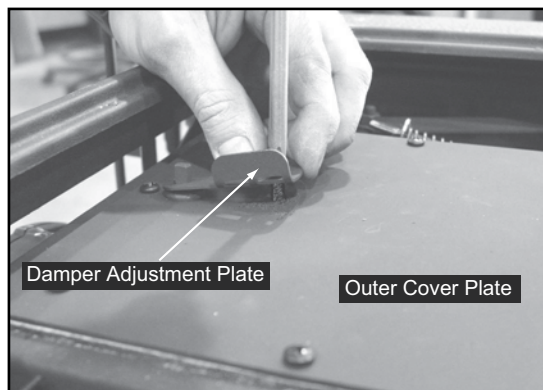


Figure 8.28 REAR VENT INSTALLATIONS: Locate the damper adjustment control on the top of the appliance beneath the grille plate.

Make adjustment:

Let appliance warm up before adjusting.

Loosen screws using a Phillips head screwdriver.

Pivot the vertical damper adjustor in 1/4 in. (6mm) increments while observing the flame activity.

Turning clockwise to open damper = less flame height and more blue in flame color.

Turning counterclockwise to close damper = increased flame height and more yellow in flame color.

Make adjustment until flame size and activity suits your personal preference, and then retighten screws on adjustment control.

Reattach the rear vent access plate (rear vent) OR the grille plate (top vent).

NOTE: In the Commonwealth of Massachusetts, the word damper shall be replaced with the words flue restrictor.

L. Shutter Adjustment

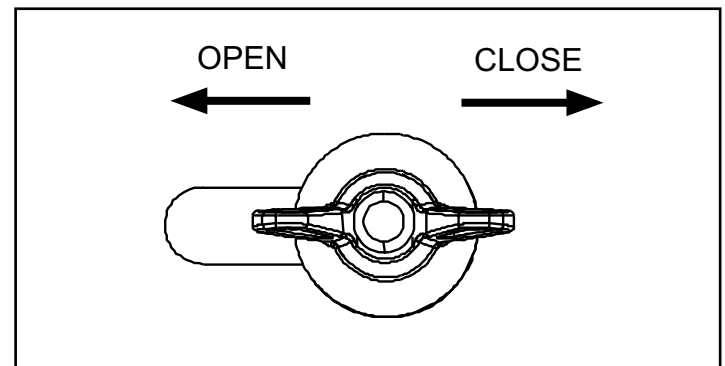


Figure 8.29 The shutter is located on the underside of the appliance, on the right side. To adjust the shutter, loosen the wingnut. Retighten the wingnut after adjustment.

Moving the shutter bolt to the right closes the shutter. Moving the shutter bolt to the left, will open the shutter. Opening the shutter causes flames to become shorter and blue. Closing the shutter creates taller orange/yellow flames.

NOTE: Do not close so much as to cause a sooty flame. Improper adjustment can cause sooting in the firebox and/or on the outside of a house with a horizontal termination.

After adjustment, tighten nut to lock in place.


9



Operating Instructions

A. Before Lighting Appliance

Read this entire manual prior to using the appliance. Failure to follow the instructions may result in property damage, bodily injury, or even death.

- Remove all shipping materials from inside and/or underneath the firebox.
- Review proper placement of logs, mineral wool.
- Check the wiring.
- Check the baffle adjustment.
- Ensure that there are no gas leaks.
- Ensure that the glass is sealed and in the proper position.
- Ensure that the flow of combustion and ventilation air is not obstructed (front grilles and vent caps).

**WARNING**




Glass door must be in place when appliance is operating.


Risk of:

- Combustion Fumes
- Fire

Do NOT operate appliance with glass door removed.

- Open viewing glass for servicing only.
- Glass door **MUST** be in place and sealed before operating appliance.
- Only use glass door certified for use with appliance.
- Glass replacement should be done by qualified technician.

**WARNING**



HOT! DO NOT TOUCH.
SEVERE BURNS MAY RESULT.
CLOTHING IGNITION MAY RESULT.

Glass and other surfaces are hot during operation and cool down.

- Keep children away.
- **CAREFULLY SUPERVISE** children in same room as appliance.
- Alert children and adults to hazards of high temperatures.
- Do NOT operate with protective barriers open or removed.
- Keep clothing, furniture, draperies and other combustibles away.

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

WARNING

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.

B. Controls

FAN SPEED: This knob controls the speed of the blower that pushes the heated air into the room.

MAIN BURNER: This control is used to turn the appliance on and off.

PILOT IGNITOR: The pilot ignitor is used only to start the pilot. When the valve control knob is turned to the pilot position and fully depressed press the piezo ignitor repeatedly creating a blue spark directly next to the pilot, igniting the pilot flame.

VALVE CONTROL: This knob is used to control gas to the appliance and for starting the pilot. There are three positions, **ON, OFF, & PILOT**. The indicator on the valve indicates the position of the knob.

COMFORT CONTROL: This knob controls the flame height from low ("LO") to high ("HI").

NOTE: If using a remote control wall switch, or thermostat, the On/Off Switch must be left "OFF". Turning the On/Off Switch to "ON" will keep the appliance on continually.

C. Lighting Appliance

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

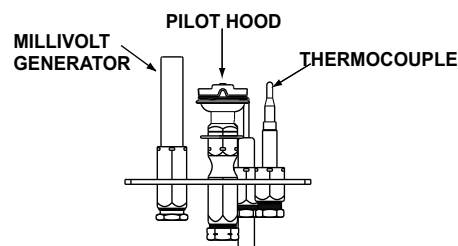
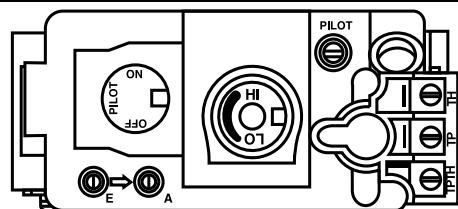
- A. This appliance has a pilot that must be lit manually. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING**, smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:


- * Do not try to light any appliance.
 - * 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, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. 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.

LIGHTING INSTRUCTIONS

1. **STOP! Read the safety information above on this label.**
2. Set the thermostat to the lowest setting (if applicable) and turn off the switch at the control panel.
3. Disconnect the power from the appliance.
4. Open the door of the appliance. May need to remove face/front first.
5. Push in gas control knob slightly and turn clockwise  to the "OFF" position. Do not force.
6. Wait five (5) minutes to clear out any gas. Smell for gas, including near the floor. If you smell gas, STOP! Follow "B" of the safety information above. If you don't smell gas go to the next step.
7. Push gas control knob in and turn counterclockwise  to the pilot position. NOTE: Knob cannot be turned unless knob is pushed in slightly. Do not force.
8. **PIEZO IGNITER:** Press down on the gas control knob in pilot position and simultaneously press the piezo igniter. (This may take many repetitions for lighting.)
ELECTRONIC IGNITER: If the unit is equipped with an electronic igniter it should begin sparking right away.
9. The pilot should be visible through the door opening.
10. After the pilot is lit, continue holding control knob down for approximately 30 seconds. Release the knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 7 through 9.
 - * If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - * If the pilot will not stay lit after several tries, turn the gas control knob clockwise  to "OFF" and call your service technician or gas supplier.
11. Reinstall door and face. Wait five minutes to allow pilot flame to stabilize and establish proper draft.
12. Push down and turn gas control knob counterclockwise  to "ON".
13. Push burner rocker switch on the control panel to "ON". If thermostat is to be used, leave switch in "OFF" position and set the thermostat to desired setting.
14. Reconnect electrical power to appliance.



TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Push in gas control knob slightly and turn clockwise  to "OFF" position.



D. After Appliance is Lit

Initial Break-in Procedure

When you light your appliance, you may notice that it produces heat which does have an associated odor or smell. If you feel this odor is excessive it may require the initial three to four hour continuous burn on high followed by a second burn up to 12 hours to fully drive off any odor from paint and lubricants used in the manufacturing process. Condensation on the glass is normal.



NOTE: The appliance should be run three to four hours on the initial start-up. Turn it off and let it cool completely. Remove and clean the glass. Replace the glass and run the appliance for an additional 12 hours. This will help to cure the products used in the paint and logs.

During this break-in period it is recommended that some windows in the house be opened for air circulation. This will help avoid setting off smoke detectors, and help eliminate any odors associated with the appliance's initial burning.

	 WARNING
	Fire Risk. High Temperatures.
Keep combustible household items away from appliance. Do NOT obstruct combustion and ventilation air.	
<ul style="list-style-type: none">• Do NOT place combustible items on top of or in front of appliance.• Keep furniture, draperies away from appliance.	

CAUTION
<ul style="list-style-type: none">• Prevent accidental appliance operation when not attended.• Unplug or remove batteries from remote control if absent or if appliance will not be used for an extended period of time.• Property damage possible from elevated temperatures.

CAUTION
Smoke and odors released during initial operation. <ul style="list-style-type: none">• Open windows for air circulation.• Leave room during initial operation.• Smoke may set off smoke detectors. Smoke and odors may be irritating to sensitive individuals.

	 WARNING
	Fire Hazard. Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.
<ul style="list-style-type: none">• Do NOT store flammable materials in the appliance's vicinity.• Do NOT use gasoline, lantern fuel, kerosene, charcoal lighter fluid or similar liquids in this appliance.• Combustible materials may ignite.	

E. Frequently Asked Questions

ISSUE	SOLUTIONS
Condensation on the glass	This is a result of gas combustion and temperature variations. As the appliance warms, this condensation will disappear.
Blue flames	This is a result of normal operation and the flames will begin to yellow as the appliance is allowed to burn for 20 to 40 minutes.
Odor from appliance	When first operated, this appliance may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing. If appliance has not been used for some time, dust can build up and cause an odor.
Film on the glass	This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 3 to 4 hours of initial burning to remove deposits left by oils from the manufacturing process. A non-abrasive cleaner such as gas appliance cleaner may be necessary. See your dealer.
Metallic noise	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the appliance.

10

Troubleshooting

With proper installation, operation, and maintenance your gas appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service person in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician.

Symptom	Possible Cause	Corrective Action
1. After repeated triggering of the piezo button, the spark ignitor will not light the pilot.	a. Defective ignitor.	Check the spark at the electrode and pilot. If no spark and electrode wire is properly connected, replace the ignitor.
	b. Defective pilot or misaligned electrode (spark at electrode).	Using a match, light the pilot. If the pilot lights, turn off the pilot and trigger the piezo button again. If the pilot lights, an improper gas/air mixture caused the bad lighting and a longer purge period is recommended. If the pilot will not light, ensure the gap at the electrode and pilot is one-eighth (1/8) inch to have a strong spark. If the gas is OK, replace the pilot.
	c. No gas or low gas pressure.	Check the remote shut-off valve from the appliance. Usually, there is a valve near the gas main. There can be more than one (1) valve from the appliance and the main.
	d. No LP in tank.	Check the LP (propane) tank. You may be out of fuel.
2. The pilot will not stay lit after carefully following the lighting instructions.	a. Defective thermocouple.	<p>Check that the pilot flame impinges on the thermocouple. Clean and /or adjust the pilot for maximum flame impingement.</p> <p>Ensure that the thermocouple connection at the gas valve is fully inserted and tight (hand tighten plus 1/4 turn).</p> <p>Disconnect the thermocouple from the valve, place one millivolt lead wire on the tip of the thermocouple and the other meter wire on the thermocouple copper lead. Start the pilot and hold the valve knob in. If the millivolt reading is less than 15mV, replace the thermocouple.</p>
	b. Defective valve.	If the thermocouple is producing more than 15 millivolts, replace faulty valve.
3. The pilot is burning, there is no gas to the burner, the valve knob is in the ON position, and the ON/OFF switch is in the ON position.	a. ON/OFF switch or wires defective.	Check the ON/OFF switch and wires for proper connections. Place the jumper wires across the terminals at the switch. If the burner comes on, replace the defective switch. If the switch is OK, place the jumper wires across the switch wires at the gas valve. If the burner comes on, the wires are faulty or connections are bad.
	b. Thermopile may not be generating sufficient millivoltage.	<p>If the pilot flame is not close enough physically to the thermopile, adjust the pilot flame.</p> <p>Be sure the wire connections from the thermopile at the gas valve terminals are tight and that the thermopile is fully inserted into the pilot bracket.</p> <p>Check the thermopile with a millivolt meter. Take the reading at TH-TP&TP terminals of the gas valve. The meter should read 325 millivolts minimum, while holding the valve knob depressed in the pilot position, with the pilot lit, and the ON/OFF switch in the OFF position. Replace the faulty thermopile if the reading is below the specified minimum.</p> <p>With the pilot in the ON position, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 325 millivolts minimum. Replace the thermopile if the reading is below the minimum.</p>

Symptom	Possible Cause	Corrective Action
3. (Continued)	c. Defective valve.	Turn the valve knob to the ON position. Place the ON/OFF switch in the ON position. Check the millivolt meter at the thermopile terminals. The millivolt meter should read greater than 125mV. If the reading is acceptable, and if the burner does not come on, replace the gas valve.
	d. Plugged burner orifice.	Check the burner orifice for stoppage. Remove stoppage.
	e. Wall switch or wires are defective.	Follow the corrective action in Symptom and Possible Cause 1.a. Check the switch and wiring. Replace where defective.
4. Frequent pilot outage problem.	a. Pilot flame may be too high or too low, or blowing (high), causing safety pilot to drop out.	Clean and adjust the pilot flame for maximum flame impingement on thermocouple. Follow lighting instructions carefully.
5. The pilot and main burner extinguish while in operation.	a. No LP in tank.	Check the LP (propane) tank. Refill the fuel tank.
	b. Inner vent pipe leaking exhaust gases back into the system.	Check for proper vent connection at flue collar and all vent joints.
	c. Horizontal vent improperly pitched.	The horizontal vent termination cap should slope down only enough to prevent any water from entering the appliance.
	d. Bad thermopile or thermocouple.	Replace if necessary.
	e. Improper vent cap installation.	Check for proper installation and freedom from debris or blockage.
6. Glass soots.	a. Flame impingement.	Adjust the log set so that the flame does not excessively impinge on it. Check that logs are placed according to installation instructions.
	b. Improper shutter setting.	Adjust the air shutter at the base of the burner.
	c. Debris around opening at base of burner.	Inspect the opening at the base of the burner. NO MATERIAL SHOULD BE PLACED IN THIS OPENING.
7. Flame burns blue and lifts off burner.	a. Insufficient oxygen being supplied.	<p>Ensure that the vent termination cap is installed properly and free of debris. Ensure that the vent system joints are tight and have no leaks.</p> <p>Ensure that no debris has been placed at the base of, or in the area of the air holes in the center of the base pan beneath the burner.</p> <p>Ensure that the glass is tightened properly on the appliance, particularly on top corners.</p>

11

Maintaining and Servicing Appliance

Although the frequency of your appliance servicing and maintenance will depend on use and the type of installation, a qualified service technician should perform an appliance check-up at the beginning of each heating season.



WARNING

Risk of injury or property damage.

Before servicing:

- Turn off gas.
- Turn off electricity to appliance.
- Ensure appliance is completely cooled.

After servicing:

- Replace front and glass, if removed.
- Reseal and reinstall any venting removed for servicing.



WARNING

Annual inspection by qualified technician recommended.

Check:

- Condition of glass, glass assembly and glass seal.
- Obstructions of combustion and ventilation air.
- Obstructions of termination cap.
- Burner ignition and operation.
- Burner air shutter adjustment
- Gas connections and fittings.

Clean:

- Glass
- Air passageways, grilles, control compartment
- Burner, burner ports. **USE CAUTION WHEN CLEANING/HANDLING CERAMIC BURNER.**



Risk of:

- Fire
- Delayed ignition or explosion
- Exposure to combustion fumes
- Odors

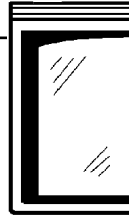


WARNING



Inspect external vent cap regularly.

- Ensure no debris blocks cap.
- Combustible materials blocking cap may ignite.
- Restricted air flow affects burner operation.



CAUTION

Handle glass assembly with care.

NOTE: Clean glass after initial 3-4 hours operation. **Longer operation without cleaning glass may cause a permanent white film on glass.**

When cleaning glass door:

- Avoid striking, scratching or slamming glass.
- Do NOT use abrasive cleaners.
- Use a hard water deposit glass cleaner on white film.
- Do NOT clean glass when hot.
- Turn off appliance after 3-4 hours of operation and **ALLOW TO COOL.**
- Remove and clean glass assembly.
- Replace glass assembly and operate appliance for additional 12 hours.

Refer to maintenance instructions.

A Maintenance Tasks

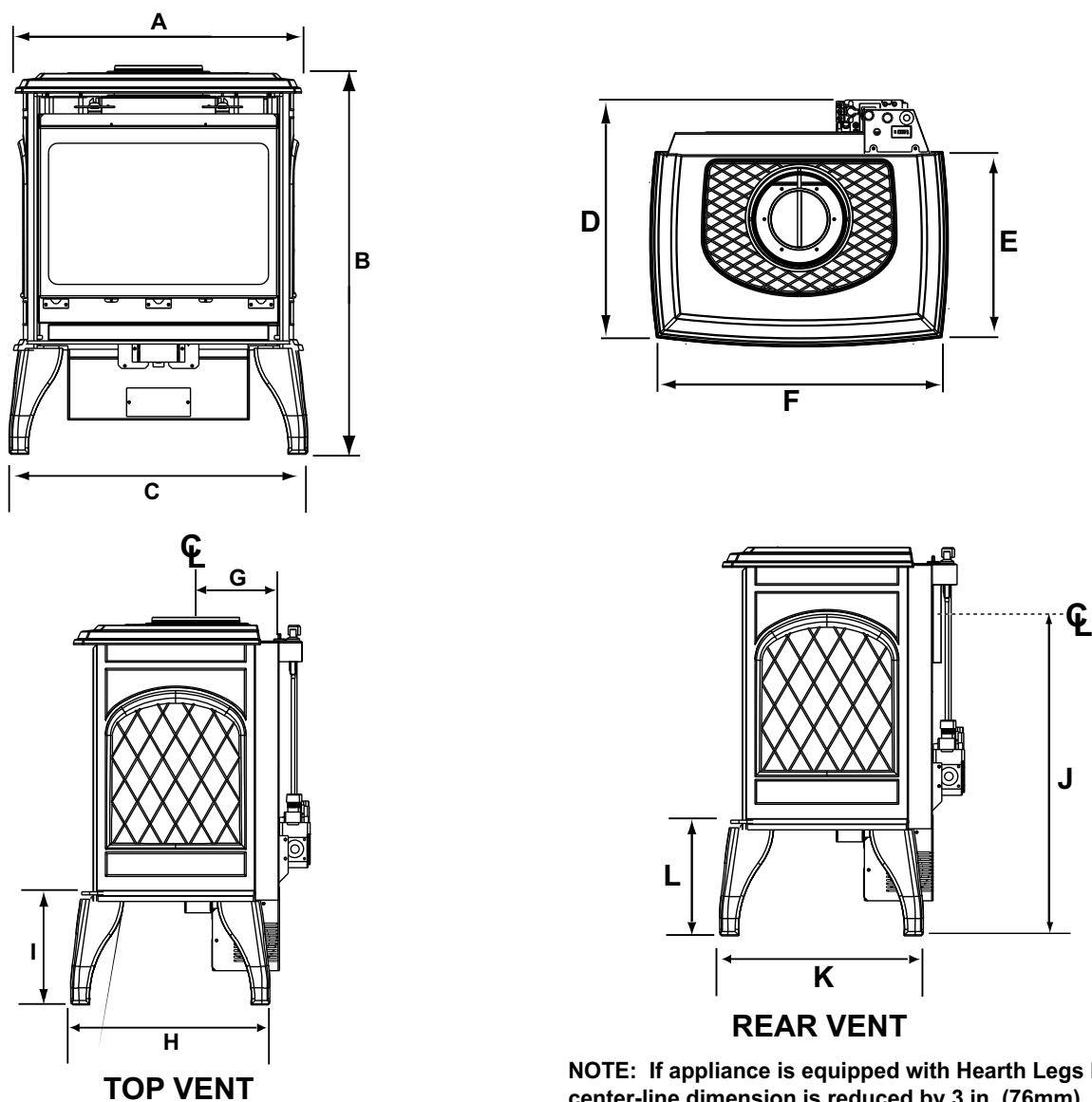
Inspect	Maintenance Tasks
Doors	1. Inspect for scratches, dents or other damage and repair as necessary.
	2. Verify no obstructions to air flow.
	3. Verify maintenance of proper clearance to combustible household objects.
Gasket Seal, Glass Assembly and Glass	1. Inspect gasket seal and its condition.
	2. Inspect glass for scratches and nicks that can lead to breakage when exposed to heat.
	3. Confirm there is no damage to glass or glass frame, Replace as necessary.
	4. Verify that latches engage properly and glass attachment components are intact and operating properly. Replace as necessary.
	5. Clean glass. Replace glass assembly if severely coated with silicate deposits that cannot be removed.
Valve Compartment and Firebox Top	1. Vacuum and wipe out dust, cobwebs, debris or pet hair. Use caution when cleaning these areas. Screw tips that have penetrated the sheet metal are sharp and should be avoided.
	2. Remove any foreign objects.
	3. Verify unobstructed air circulation.
Logs	1. Inspect for broken, damaged, or missing logs. Replace as necessary.
	2. Verify correct log placement and no flame impingement causing sooting. Correct as necessary.
Firebox	1. Inspect for paint condition, warpage, corrosion or perforation. Sand and repaint as necessary.
	2. Replace appliance if firebox has been perforated.
Burner Ignition and Operation	1. Verify burner is properly secured and aligned with pilot or igniter.
	2. Clean off burner top, inspect for plugged ports, corrosion or deterioration. Replace burner if necessary. USE CAUTION WHEN CLEANING/HANDLING CERAMIC BURNER.
	3. Replace ember material with new dime-size and shape pieces. Do not block ports or obstruct lighting paths.
	4. Check for smooth lighting and ignition carryover to all ports. Verify there is no ignition delay.
	5. Inspect for lifting and other flame problems.
	6. Inspect orifice for soot, dirt or corrosion.
	7. Verify manifold and inlet pressures. Adjust regulator as required.
	8. Inspect pilot flame strength. Clean or replace orifice as necessary.
	9. Inspect thermocouple/thermopile sensor rod for soot, corrosion and deterioration. Clean with emery cloth or replace as required.
	10. Verify millivolt output. Replace as necessary.
Venting	1. Inspect venting for blockage or obstruction such as bird nests, leaves, etc.
	2. Confirm that termination cap remains clear and unobstructed by plants, etc.
	3. Verify that termination cap clearance to subsequent construction (building additions, decks, fences or sheds) has been maintained.
	4. Inspect for corrosion or separation.
	5. Verify weather stripping, sealing and flashing remains intact.
Remote Controls	1. Verify operation of remote.
	2. Replace batteries in remote transmitters and battery-powered receivers.

12

Reference Materials

A. Appliance Dimension Diagram

Dimensions are actual appliance dimensions. Use for reference only. For clearances refer to Section 3.



Location	Inches	Millimeter	Location	Inches	Millimeter
A	21-1/2	546	G	6-1/4	159
B	28-5/8	727	H	14-5/8	371
C	22-1/8	562	I	8	203
D	17-1/2	445	J	22-1/4	565
E	14-3/8	365	K	14-5/8	371
F	21-1/2	546	L	8	203

Figure 12.1 Appliance Dimensions

B. Vent Components Diagram

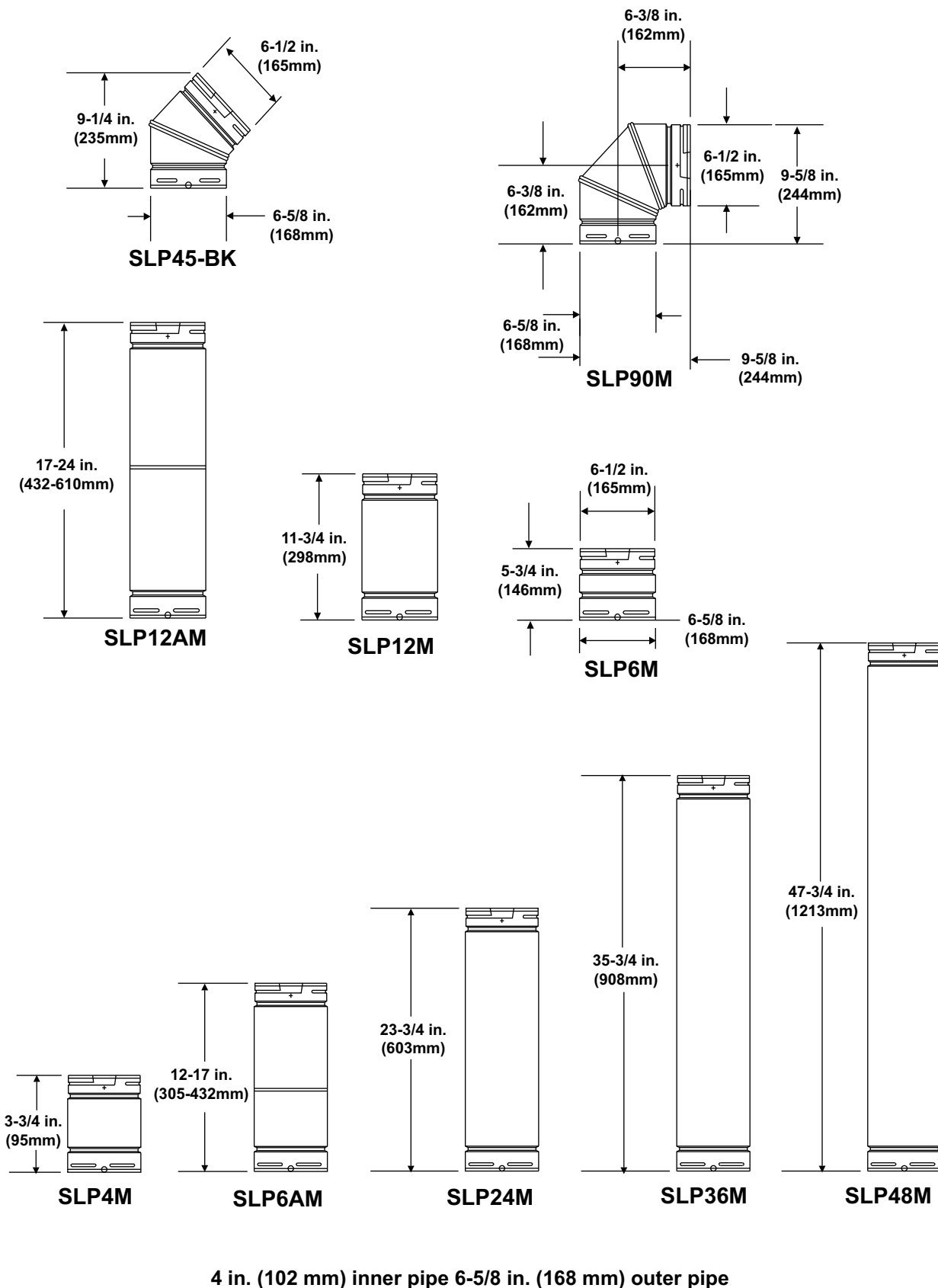


Figure 12.2 SL-D Series Vent Components

C. Vent Components List

Description	HHT SL-P M= Multi Pack (6)	Simpson Dura-Vent® DirectVent Pro	Selkirk® Direct-Temp	Amerivent Direct®	Security Secure Vent®
4" Pipe Length, Galvanized	SLP4M	-	-	-	-
4" Pipe Length, Black	SLP4-BK	-	-	-	-
6" Pipe Length, Galvanized	SLP6M	46-DVA-06	4DT-6	-	SV4L6
6" Pipe Length, Black	SLP6-BK	46-DVA-06B	4DT-6B	-	SV4LB6
7" Pipe Length, Galvanized	-	-	-	4D7	-
7" Pipe Length, Black	-	-	-	4D7B	-
9" Pipe Length, Galvanized	-	46-DVA-09	4DT-9	-	-
9" Pipe Length, Black	-	46-DVA-09B	4DT-9B	-	-
12" Pipe Length, Galvanized	SLP12M	46-DVA-12	4DT-12	4D12	SV4L12
12" Pipe Length, Black	SLP12-BK	46-DVA-12B	4DT-12B	4D12B	SV4LB12
18" Pipe Length, Galvanized	-	46-DVA-18	4DT-18	-	-
18" Pipe Length, Black	-	46-DVA-18B	4DT-18B	-	-
24" Pipe Length, Galvanized	SLP24M	46-DVA-24	4DT-24	4D2	SV4L24
24" Pipe Length, Black	SLP24-BK	46-DVA-24B	4DT-24B	4D2B	SV4LB24
36" Pipe Length, Galvanized	SLP36M	46-DVA-36	4DT-36	4D3	SV4L36
36" Pipe Length, Black	SLP36-BK	46-DVA-36B	4DT-36B	4D3B	SV4LB36
48" Pipe Length, Galvanized	SLP48M	46-DVA-48	4DT-48	4D4	SV4L48
48" Pipe Length, Black	SLP48-BK	46-DVA-48B	4DT-48B	4D4B	SV4LB48
Adjustable Length, 3"-6", Black	SLP6A-BK	-	-	-	-
Adjustable Length, 3"-6", Galvanized	SLP6AM	-	-	-	-
Adjustable Length, 3"-7", Galvanized	-	46DVA-08A	-	-	-
Adjustable Length, 3"-7", Black	-	46DVA-08AB	-	-	-
Adjustable Length, 3"-12", Black	SLP12A-BK	-	-	-	-
Adjustable Length, 3"-12", Galvanized	SLP12AM	-	-	-	-
Adjustable Length, 3"-14.5", Galvanized	-	46DVA-16A	-	-	-
Adjustable Length, 3"-14.5", Black	-	46DVA-16AB	-	-	-
Adjustable Length, 7", Galvanized	-	-	-	4D7A	-
Adjustable Length, 7", Black	-	-	-	4F7AB	-
Adjustable Length, 11"-14", Galvanized	-	-	4DT-AJ	-	-
Adjustable Length, 11"-14", Black	-	-	4DT-AJB	-	-
Adjustable Length, 12", Galvanized	-	4DTAJ12	-	4D12A	SV4LA12
Adjustable Length, 12", Black	-	4DTAJ12-B	-	4D12AB	SV4LBA12
Adjustable Length, 16", Galvanized	-	46DVA-16A	-	4D16A	-
Adjustable Length, 16", Black	-	46DVA-16AB	-	-	-
Adjustable Length, 24", Galvanized	-	-	-	-	SV4LA24
Adjustable Length, 24", Black	-	-	-	-	SV4LBA24
2' Flexible Pipe Length	SLP-FLEX-2	-	-	-	-
3' Flexible Pipe Length	SLP-FLEX-3	-	-	-	-
5' Flexible Pipe Length	SLP-FLEX-5	-	-	-	-
10' Flexible Pipe Length	SLP-FLEX-10	-	-	-	-
3" x 35' Flex Extension	-	2280	-	-	-
4" x 35' Flex Extension	-	2281	-	-	-
45° Elbow, Galvanized	SLP45M	-	-	-	-
45° Elbow, Black	SLP45-BK	See Swivel	4DT-EL45B	4D45LB	SV4EBR45
45° Elbow, Swivel, Galvanized	-	46DVA-E45	-	-	SV4E45

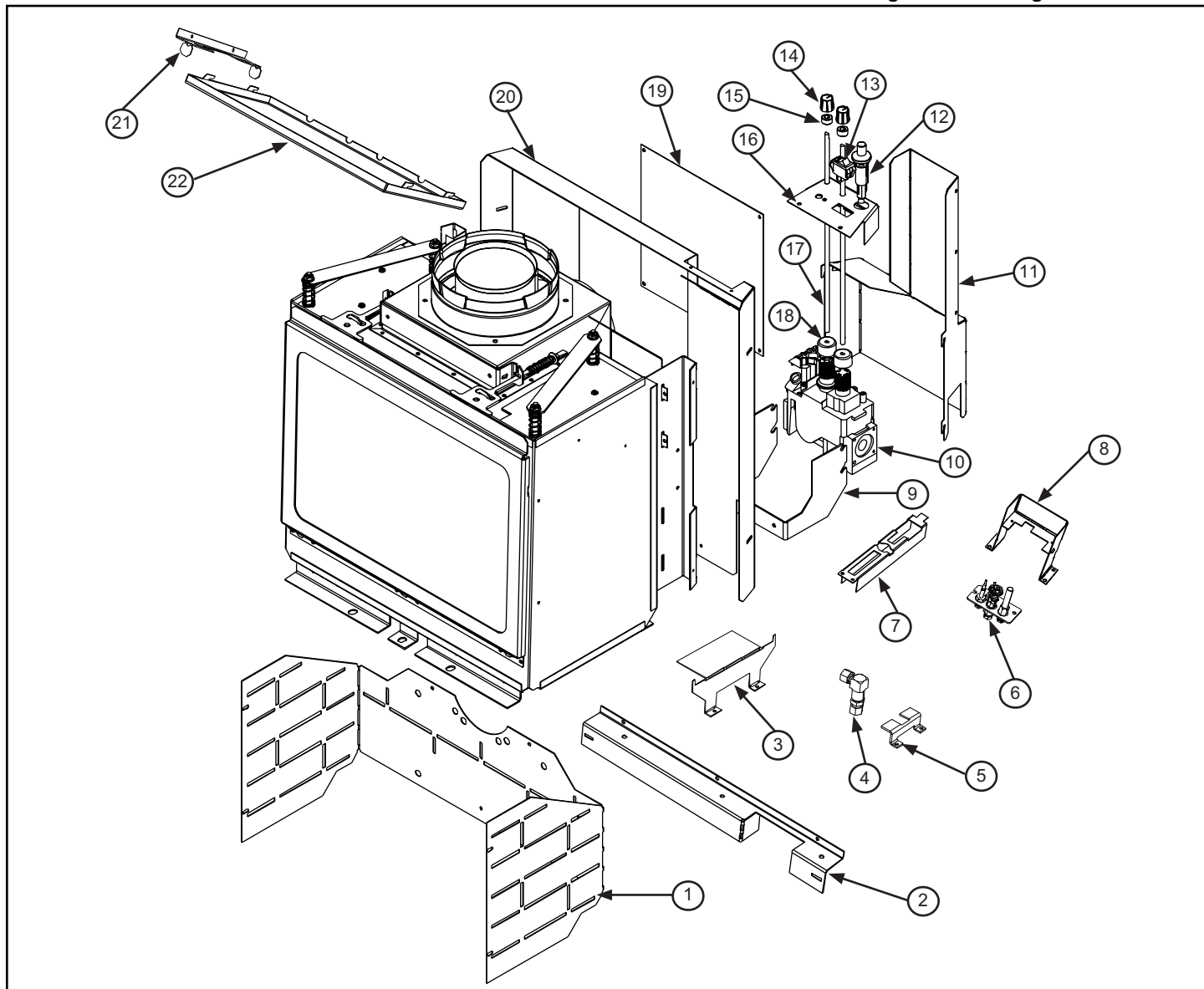
Description	HHT SL-P M= Multi Pack (6)	Simpson Dura-Vent® DirectVent Pro	Selkirk® Direct-Temp	Amerivent Direct®	Security Secure Vent®
45° Elbow, Swivel, Black	-	46DVA-E45B	-	-	SV4EB45
90° Elbow, Galvanized	SLP90M	See Swivel	4DT-EL905	4D90LS	-
90° Elbow, Black	SLP90-BK	See Swivel	4DT-EL90SB	4D90LBS	SV4EBR90
90° Elbow, Swivel, Galvanized	-	46DVA-E90	-	-	SV4E90
90° Elbow, Swivel, Black	-	46DVA-E90B	-	-	SV4EB90
Adjustable Flashing, 0/12-6/12	SLP-RF6M	46DVA-F6	4DT-AF6	4DF	SV4FA
Adjustable Flashing, 7/12-12/12	SLP-RF12M	46DVA-F12	4DT-AF12	4DF12	SV4FB
Attic Insulation Shield - Cold Climates 36"	-	-	-	4DAIS37	-
Attic Insulation Shield 12"	SLP-AS2M	-	-	4DAIS12	SV4RSA
Attic Insulation Shield, Adjustable 11"-20"	-	46-DVA-IS	-	-	-
Cathedral Support Box	SLP-CCS-BK	46DVA-CS	4DT-CSS	4DRSB	SV4CSB
Ceiling Support	-	46DVA-DC	4DT-CS	4DFSP	SV4SD
Co-Axial to Co-Lineal Appliance Connector	-	46DVA-GCL	-	-	-
Decorative Ceiling Firestop - Black	SLP-DCF-BK	-	-	-	-
Decorative Radius Cover	DRC-RADIUS	-	-	-	-
Firestop Spacer/Ceiling Firestop	SLP-FSM	46DVA-FS	4DT-FS	4DFSP	SV4BF
Flex Trap Cap with Firestop	SLP-FLEX-TRAP	-	-	-	-
Flex Trap Cap with Firestop and 30' Flex Pipe	SLP-FLEX-TRAP30	-	-	-	-
Masonry Chimney Conversion Kit	-	46DVA-KMC	-	-	-
Offset Support	-	46DVA-ES	4DT-OS	-	SV4SU
Offset Wall Thimble, Black	SLP-WT-BK	-	-	-	-
Silicone Roof Flashing, 4" to 8" pipes (6)	RF4-8M	-	-	-	-
Storm Collar	SLP-SCM	46DVA-SC	4DT-SC	4DSC	SV4FC
Trim Plate, Black	-	-	4DT-TP	4DFPB	SV4LA
Wall Support Band	SLP-HVSM	46-DVA-WS	4DT-WS/B	4DWS	SV4BM
Wall Thimble Support Box/Ceiling Support	-	-	-	-	SV4PF
Wall Thimble, Black	SLP-WSM	46DVA-WT	4DT-WT	4DWT	SV4RSM
TERMINATION CAPS & KITS					
Basic Horizontal Termination Kit (A)	-	46DVA-KHA	4DT-HKA	4DHTK2	SV-SHK
Chimney Liner Termination Kit	-	46DVA-GK	-	-	-
Horizontal Square Termination Cap	SLP-HHW2	46DVA-HC	4DT-HHC	4DHC	SV4CHC
Horizontal Termination Kit (B)	-	46DVA-KHC	4DT5-HKB	4DHTK1	SV-HK
RHVK Snorkel Kit	-	844-8921	-	-	-
Snorkel Termination 14"	SLK-SNKD	46DVA-SNK14	4DT-ST14	4D12S	SV4STC14
Snorkel Termination 36"	-	46DVA-SNK36	4DT-ST36	4D36S	SV4STC36
* Stove Adaptor Kit (Vertical Cap Kit)	LINK-STOVE	-	-	-	-
Trapezoid Termination Kit (3-1/8"-4-3/4")	SLP-TRAP1	-	-	-	-
Trapezoid Termination Kit (5-1/4" X 9-1/4")	SLP-TRAP2				
Vertical Termination Cap	SLP-TVHW	46DVA-VCH	4DT-VKC	4DVT	SV4CGV

* Stove Adaptor Kit (Vertical Cap Kit) Includes 30'-4" flex, adapters, wall thimble, masonry, ZC flashing, 991DA vertical cap.

NOTES: ¹Before cutting any holes check pipe manufacturers current instructions.

²Each pipe manufacturer has their own list of parts for kits.

³SL is not interchangeable with SLP.



Item #	Description	Item #	Description
1	Refractory, Metal	12	Igniter, Piezo
2	Log Support, Rear	13	Switch, Rocker, ON/OFF
3	Burner Support	14	Knob, Rheostat
4	Bulkhead	15	Set Collar, 1/4 in.
5	Bulkhead Stop	16	Switch Plate
6	Pilot Assembly	17	Control Rod
7	Burner Pan, Side	18	Adapter, Valve Extension
8	Pilot Bracket	19	Back Shield Cover Plate
9	Valve Bracket	20	Back Shield
10	Valve, Gas	21	Baffle Hanger
11	Valve Cover	22	Baffle

IMPORTANT: THIS IS DATED INFORMATION. The most current information is located on your dealer's VIP site. When ordering, supply serial and model numbers to ensure correct service parts.

Item #	Part Description Alphabetical Order	SKU
	Adapter, DV	7000-162
18	Adapter, Valve Extension	450-6330
	Air Shutter Assembly	468-5060
	Ash Lip	454-0070
20	Back Shield	455-0200
19	Back Shield Cover Plate	455-0220
22	Baffle	455-0290
21	Baffle Hanger	455-0300
	Blower	BK-GAS
4	Bulkhead	26457
5	Bulkhead Stop	474-0090
	Burner Assembly	SN# 007777105 and lower 844-9280
	Burner Assembly	SN# 007777106 and higher SRV455-5320
7	Burner Pan, Side	455-0530
	Burner Stop	7010-152
3	Burner Support	455-0420
	Component Pack, Matte Black (Includes ON/OFF Valve; LP Orifice, .063; Mineral Wool; LP Pilot Injector, EZ, LP, 35; LP Conversion Label; Owner's Manual; Warranty Card; Touch-up Paint and Fastener.)	MBK: 455-5130 PMB: 455-5290 PMH: 455-5300 CSB: 455-5340 CWL: 455-5350
17	Control Rod	455-0340
	Conversion Kit, LP	844-9730
	Conversion Kit, NG	844-9020
	Door Assembly	455-5180
	Door Assembly, Left	See page 52
	Door Assembly, Right	See page 52
	Elbow, .375 ML FLR x .375	200-0720
	Elbow, Brass, 3/8 COMP x 3/8 MPT	17524A
	Electrode, S.I.T., EZ, Flush	842-4580
	Exhaust Cover Plate	455-0730
	Face Assembly, Solitaire	See page 52
	Face, Quartet	See page 52
	Flex Line, 3/8 Flare x 22L	7000-197
	Flue Collar Assembly	455-5120
	Gasket, Elbow	460-0610
	Gasket, Glass, 10 ft.	844-3010
	Glass Assembly	7010-017
	Grille Cover	455-0390
	Grille, Top Vent	See page 52

IMPORTANT: THIS IS DATED INFORMATION. The most current information is located on your dealer's VIP site. When ordering, supply serial and model numbers to ensure correct service parts.

Item #	Part Description Alphabetical Order	SKU
	Hinge Assembly	454-5030
	Hinge Pins, Gold	72171
12	Igniter, Piezo	230-0612
	Injector, Pilot, EZ, LP, 35	200-2630
14	Knob, Rheostat	100-512
	Leg	See page 52
	Line, Gas, T6-18	450-6360
	Log Set	844-9270
	Log, Front, Right	455-0840
	Log, Front, Left	455-0850
	Log, Top, Right	455-0860
	Log, Top, Left	455-0870
	Log, Rear	455-0880
2	Log Support, Rear	455-0520
	Magnet, Round	SRV7000-140
	Mineral Wool	200-2550
	ON/OFF Valve	15697A
	Orifice, LP, (.059), Rear Vent	13845
	Orifice, LP, (.063)	17236
	Orifice, NG, (.096), Rear Vent	13844
	Orifice, NG, (.106)	19837
6	Pilot Assembly, NG	230-1781
6	Pilot Assembly, NG, EZ with Injector	842-4280
8	Pilot Bracket	474-0100
	Pilot Hood Only, 3 Flame	200-3000
1	Refractory, Metal	455-0510
	Regulator, Conversion, S.I.T., NG	230-1570
	Regulator, Conversion, S.I.T., LP	230-1520
	Relief Door Assembly, Left	455-5200
	Relief Door Assembly, Right	455-5190
	Hinge Pins, Gold (Qty. 2)	844-5750
15	Set Collar, 1/4 in.	229-0750
	Side	See page 52
	Snap Disc (Fan)	230-0960
	Speed Control	842-0370
16	Switch Plate	455-0550
13	Switch, Rocker, ON/OFF	230-0730
	Thermocouple, 34 in.	200-2950
	Thermopile/Generator, Millivolt	842-0250

IMPORTANT: THIS IS DATED INFORMATION. The most current information is located on your dealer's VIP site. When ordering, supply serial and model numbers to ensure correct service parts.

Item #	Part Description Alphabetical Order	SKU
	Top	See page 52
	Touch-up Paint, Matte Black (4oz.)	7000-304
	Touch-up Paint, Porcelain Crème	855-0390
	Touch-up Paint, Porcelain Green	855-0420
	Touch-up Paint, Porcelain Mahogany	855-1450
	Touch-up Paint, Powder Coat Crème	TOUCHUP-CCR
	Touch-up Paint, Powder Coat Linden Green	TOUCHUP-CLG
9	Valve Bracket	455-0190
11	Valve Cover	455-0310
10	Valve, Gas, LP	842-0230
10	Valve, Gas, NG	842-0240
	Wire Harness	7009-114

CAST PARTS - INDIVIDUAL PIECES					
Add color code to SKU. Example 454-0070MBK					
Ash Lip	454-0070	Grille, Top Vent	455-0370	MBK - Matte Black	PMB - Porcelain Midnight Blue
Door Assembly, Left	454-5020	Leg	26404	PBK - Porcelain Black	CCR - Powder Coat Cream
Door Assembly, Right	454-5010	Side	455-0440	PBL - Porcelain Blue	CLG - Powder Coat Linden Green
Face Assembly, Solitaire	455-5160	Top	455-0350	PCR - Porcelain Creme	CSB - Powder Coat Sienna Bronze
Face (Quartet)	454-0010			PGR - Porcelain Green	CWL - Powder Coat Willow
Standard Leg	26404			PMH - Porcelain Mahogany	

E. Accessories

DESCRIPTION	PART #
Decorative Glass Accent for Solitaire Front - Gold	844-0120
Rear Vent Kit, Matte Black	844-8870
Rear Vent Kit, Porcelain Mahogany	844-9760
Rear Vent Kit, Porcelain Midnite Blue	844-9771
Rear Vent Kit, Powder Coat Creme	RV-SA-CCR
Rear Vent Kit, Powder Coat Linden Green	RV-SA-CLG
Rear Vent Kit, Powder Coat Sienna Bronze	RV-SA-CSB
Rear Vent Kit, Powder Coat Willow	RV-SA-CWL
Warming Shelf - WS1-2, Matte Black	844-7850
Warming Shelf - WS1-2, Porcelain Mahogany	844-9740
Warming Shelf - WS1-2, Porcelain Midnite Blue	844-9751
Warming Shelf Bracket - WSB1-2, Black	844-7950
Warming Shelf Bracket - WSB1-2, Gold	844-7960

F. Service and Maintenance Log

[illegible]

G. Warranty Policy

Hearth & Home Technologies LIMITED WARRANTY

Hearth & Home Technologies ("HHT") and its respective brands extends the following warranty for HHT gas, wood, pellet and electric appliances purchased from an authorized HHT dealer and installed in the United States of America or Canada. Warranty starts with date of purchase by the original owner (End User) except as noted for replacement parts.

Warranty Period		HHT Manufactured Appliances and Venting						Components Covered
Parts	Labor	Gas	Wood	Pellet	EPA Wood	Electric	Venting	
1 Year		X	X	X	X	X	X	All Parts and Material Except as covered by Conditions, Exclusion, and Limitations listed
2 years				X	X			Igniters, Electronic Components, and Glass
		X	X	X	X			Blowers
			X					Molded Refractory Panels
3 years				X				Firepots
5 years	3 years			X	X			Castings & Baffles
7 years	3 years		X	X	X			Firebox, HHT Chimney, Termination & Heat Exchanger
10 years	1 year	X						Burners, Logs & Refractory
Limited Lifetime	1 year	X						Firebox & Heat Exchanger
90 Days		X	X	X	X	X	X	All Replacement Parts
See Conditions, Exclusions, and limitations.								9-01-08

CONDITIONS, EXCLUSIONS & LIMITATION OF LIABILITY

- This warranty applies to the original owner and is transferable up to two years from date of purchase to the new homeowner, provided the purchase was made through an authorized dealer or distributor of HHT, and the appliance remains in its original place of installation.
- The maximum amount recoverable under this warranty is limited to the purchase price of the product.
- In no event shall HHT be liable for any incidental or consequential damages caused by defects in the product.
- Adjustments, regular maintenance, cleaning and temporary repairs, or the failure to duplicate the problem in the home is not covered under this warranty.
- This limited warranty does not extend to or include surface finish on the appliance or terminations, door gasketing, glass gasketing, glass discoloration, firebrick, pellet logs, kaowool or other ceramic insulating materials. Rust and/or corrosion on any of the metal surfaces, cast iron components, baffles, firepots, doors, or firebox area are not covered by this warranty.
- Noise resulting from minor expansion, contraction, or movement of certain parts is normal and complaints related to this noise are not covered by this warranty.

Hearth & Home Technologies LIMITED WARRANTY (Cont'd)

- HHT's obligation under this warranty does not extend to damages resulting from: (1) installation, operation or maintenance of the appliance not in accordance with the installation instructions; operating instructions and the listing agent identification label furnished with the appliance; (2) installation which does not comply with local building codes; (3) shipping, improper handling, improper operation, abuse, misuse, accident or unworkmanlike repairs; (4) environmental conditions, inadequate ventilation or drafting caused by tight sealing construction of the structure or handling devices such as exhaust fans or forced air furnaces or other such causes; (5) use of fuels other than those specified in the operating instructions; (6) installation or use of components not supplied with the appliance or any other components not expressly authorized and approved by HHT; and/or (7) modification of the appliance not expressly authorized and approved by HHT in writing.
- This warranty does not apply to non-HHT venting components, hearth components or other accessories used in conjunction with the installation of this product.
- This warranty is void if the appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals the appliance is subject to prolonged periods of dampness or condensation, or 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.
- HHT's liability under this warranty is limited to the replacement and repair of defective components or workmanship during the applicable period. HHT may fully discharge all of its obligations under such warranties by repairing the defective component(s) at HHT's discretion. Shipping costs are not covered under this warranty.
- Some states do not allow exclusions or limitation of incidental or consequential damages, so those 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 WARRANTY SPECIFIED ABOVE.

This Limited Warranty is effective on all HHT appliances sold after September 01, 2008 and supersedes any and all warranties currently in existence.

If warranty service is needed, you should contact your installing dealer. If the installing dealer is unable to provide necessary parts or components, contact the nearest authorized HHT dealer or supplier.



H. Contact Information



CONTACT INFORMATION:

Hearth & Home Technologies
1445 North Highway
Colville, WA 99114
Division of HHT INDUSTRIES

Please contact your Quadra-Fire dealer with any questions or concerns.
For the number of your nearest Quadra-Fire dealer
please visit our web site at www.quadrafire.com

CAUTION	
	Do NOT discard this manual.
	• Important operating and maintenance instructions included.
	• Read, understand and follow these instructions for safe installation and operation.
	• Leave this manual with party responsible for use and operation.



Your Records for Model: Sapphire

DEALERSHIP WHERE PURCHASED:

SERIAL NUMBER: _____

DATE PURCHASED: _____

DATE INSTALLED: _____

DEALER TELEPHONE: _____

This product may be covered by one or more of the following patents: (United States) 4593510, 4686807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 5429495, 5452708, 5542407, 5601073, 5613487, 5647340, 5688568, 5762062, 5775408, 5890485, 5931661, 5941237, 5947112, 5996575, 6006743, 6019099, 6048195, 6053165, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439226, 6484712, 6543698, 6550687, 6601579, 6672860, 6688302B2, 6715724B2, 6729551, 6736133, 6748940, 6748942, 6769426, 6774802, 6796302, 6840261, 6848441, 6863064, 6866205, 6869278, 6875012, 6880275, 6908039, 6919884, D320652, D445174, D462436; (Canada) 1297749, 2195264, 2225408, 2313972; (Australia) 780250, 780403, 1418504 or other U.S. and foreign patents pending.

