

Installation & Operating Manual

Installation and Appliance Setup - Care and Operation

INSTALLER: Leave this manual with party responsible for use and operation.

OWNER: Retain this manual for future reference.

Call your dealer for questions on Installation, Operation, or Service.

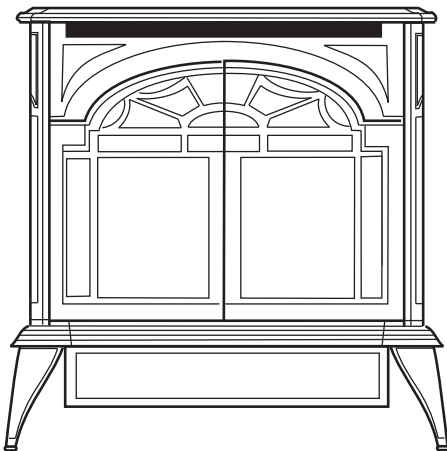
NOTICE: SAVE THESE INSTRUCTIONS

VERMONT  CASTINGS

SDDVT Series Stardance® Direct Vent Gas Heater

Models:

SDDVT-IFT-BD, SDDVT-IFT-BM,
SDDVT-IFT-BS, SDDVT-IFT-CB, SDDVTCBSB,
SDDVTBSSB, SDDVTBDSB, SDDVTBMSB



Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends HHT Factory Trained or NFI certified professionals.



WARNING

FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death or property damage.

- 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.
 - Leave the building immediately.
 - 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.



DANGER

**HOT GLASS WILL
CAUSE BURNS.**



**DO NOT TOUCH GLASS
UNTIL COOLED.**

**NEVER ALLOW CHILDREN
TO TOUCH GLASS.**

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed.

PLEASE READ THE INSTALLATION & OPERATING INSTRUCTIONS BEFORE USING APPLIANCE.

Thank you and congratulations on your purchase of a Vermont Castings stove. IMPORTANT: Read all instructions and warnings carefully before starting installation. Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

Note: Cast iron is an artisan crafted material, which is made the same way today as nearly 2000 years ago. Due to the intrinsic primitive nature of the casting process, part to part variation is normal and adds to the character of a hand built cast iron appliance

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→ = Contains updated information

1 Important Safety Information

A. Massachusetts Safety Information

The Stardance Direct Vent Room Heater, Model Nos. SDDVT-IFT-BD, SDDVT-IFT-BM, SDDVT-IFT-BS, SDDVT-IFT-CB, SDDVTBSB, SDDVTBSSB, SDDVTBDSB, SDDVTBMSB, is a vented gas appliance listed to the ANSI Standard Z21.88-2017 and CSA 2.33-2017 for Vented Room Heaters, and CSA 2.17-M91, Gas-Fired Appliances For Use at High Altitudes.

The installation of the Stardance Direct Vent Room Heater must conform with local codes, or in the absence of local codes, with National Fuel Gas Code, ANSI Z223.1/NFPA 54 — latest edition and CSA B-149.1 Installation Code. (EXCEPTION: Do not derate this appliance for altitude. Maintain the manifold pressure at 3.5 inches w.c. for Natural Gas and 10 inches w.c. for LP gas at maximum input.)

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

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

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

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

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

An accessible tap is located above the pilot/On-Off knob for checking the inlet pressure.

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

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

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

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

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

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

WARNING: This appliance is hot while in operation. Keep children, clothing, and furniture away. Contact may cause burns or ignition of combustible materials.

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a stove or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.

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

If the barrier becomes damaged, the barrier shall be replaced with the manufacturer’s barrier for this appliance.

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

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

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

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

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

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

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

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

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

Verify proper operation after servicing.

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

Requirements for the Commonwealth of Massachusetts

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

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

Installation of Carbon Monoxide Detectors

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

Stardance Direct Vent

Certified to: ANSI Z21.88-2017 / CSA 2.33-2017 Vented Gas Heaters

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 separate from the dwelling, building or structure used in whole or in part for residential purposes.

Manufacturer Requirements

Gas Equipment Venting System Provided

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

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

Gas Equipment Venting System NOT Provided

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

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

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

B. California Safety Information



WARNING

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

2 Framing and Clearances

A. Appliance Dimension Diagram

Stove Dimensions

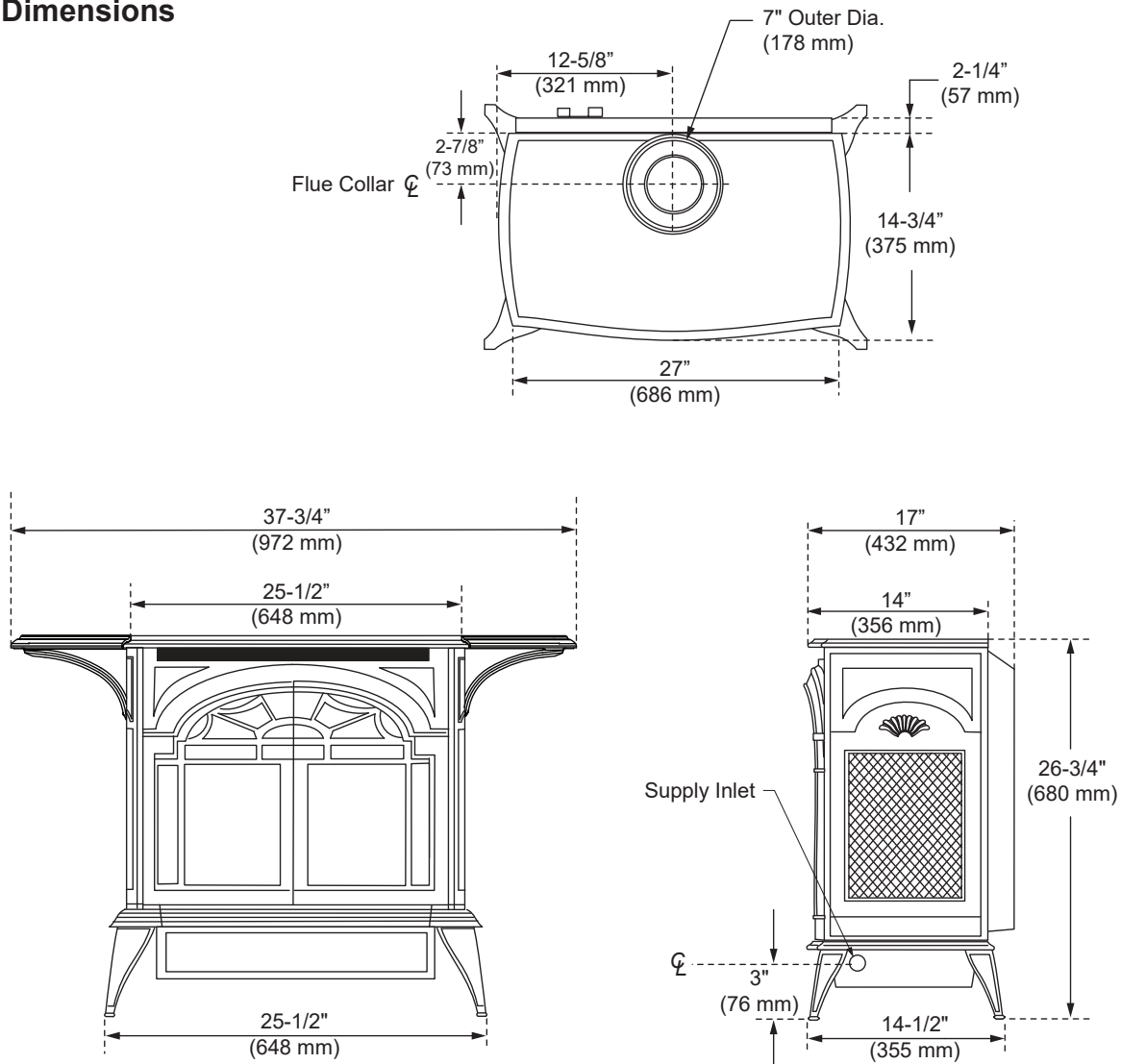


Figure 2.1 - Stardance dimensions. Weight: Fully assembled; 202 lbs.

Disclaimer

The dimensions included are for planning, layout and design purposes only. Final holes for the venting system and any other permanent modifications to the dwelling must only be completed with the unit in the final installed position.

B. Installation Requirements

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

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

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

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

! WARNING

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

! WARNING

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

In choosing a location for the stove, consider:

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

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

This appliance may be installed in an aftermarket,* permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes. This appliance is for use only with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

* Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.

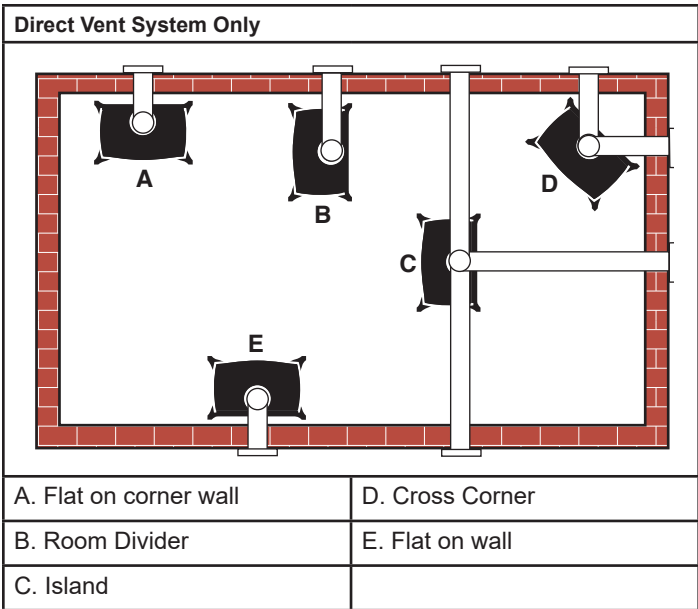


Figure 2.2 - Possible stove locations.

C. Clearance Requirements

Minimum Clearances to Combustible Materials

Measure side clearances as shown in Figures 2.3 thru 2.6 from the outer edge of the cast iron stove top. Measure rear clearances from the outermost surface of the steel rear skirt.

The Stardance heater is approved for installation into an alcove constructed of combustible materials to the dimensions and clearances shown in Figure 2.6.

The same clearances apply in a standard parallel installation.

! WARNING

- Always maintain required clearances (air spaces) to nearby combustibles to prevent fire hazard. Do not fill air spaces with insulation. Horizontal sections of this vent system require a minimum of 3" (76 mm) clearances to combustibles at the top of the flue and 1" (25 mm) clearance at the sides and bottom until the flue penetrates the outside wall. The gas appliance and vent system must be vented directly to the outside of the building and never be attached to a chimney serving a separate solid fuel or gas-burning appliance.
- Refer to the manufacturer's instructions included with the venting system for complete installation procedures.

D. Hearth Requirements

The Stardance Heater can be installed on any type of rigid flooring (e.g. hardwood, ceramic tile, brick, etc). When the heater is installed on a carpeted surface, a metal or wooden panel extending the full width and depth of the unit must be used as the hearth. The purpose of the hearth is to prevent the unit from sinking into the carpet surface and reducing the required clearance to the underside of the unit. There are no other hearth requirements.

E. Clearances to Combustibles

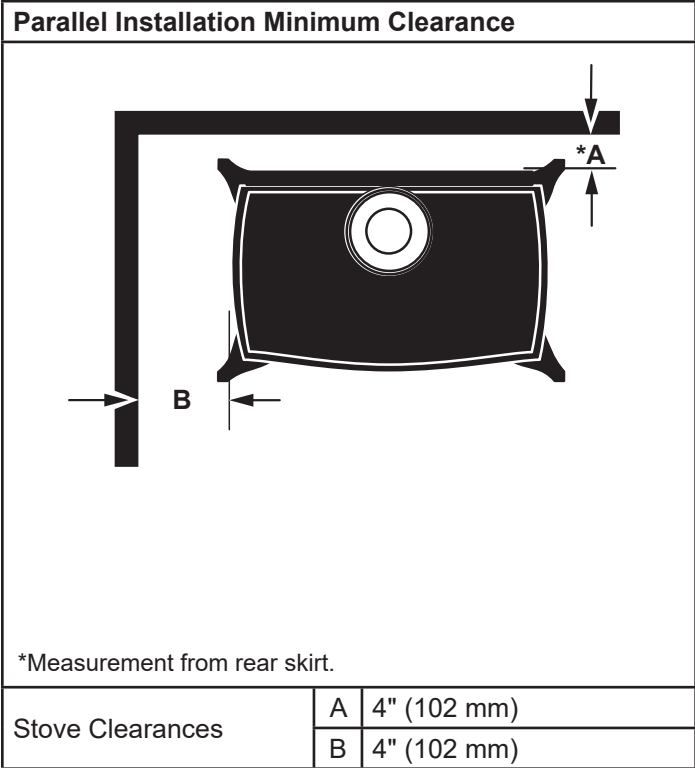


Figure 2.3 - Parallel installation, minimum back and side clearances.

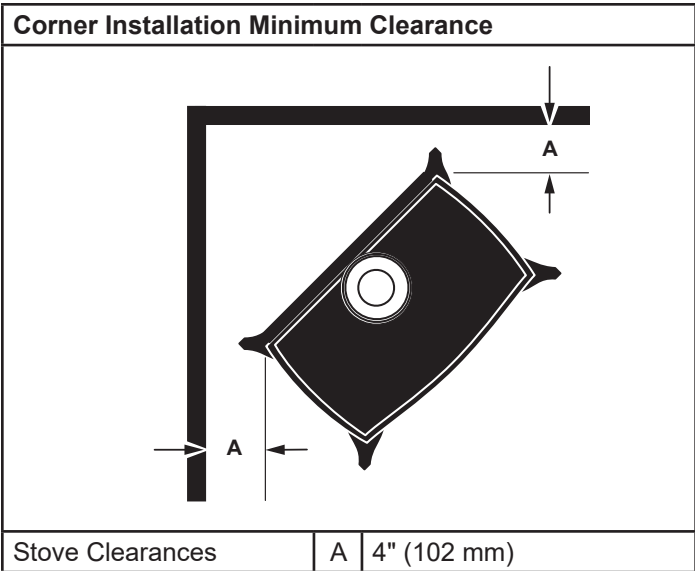


Figure 2.4 - Corner installation, minimum corner clearances.

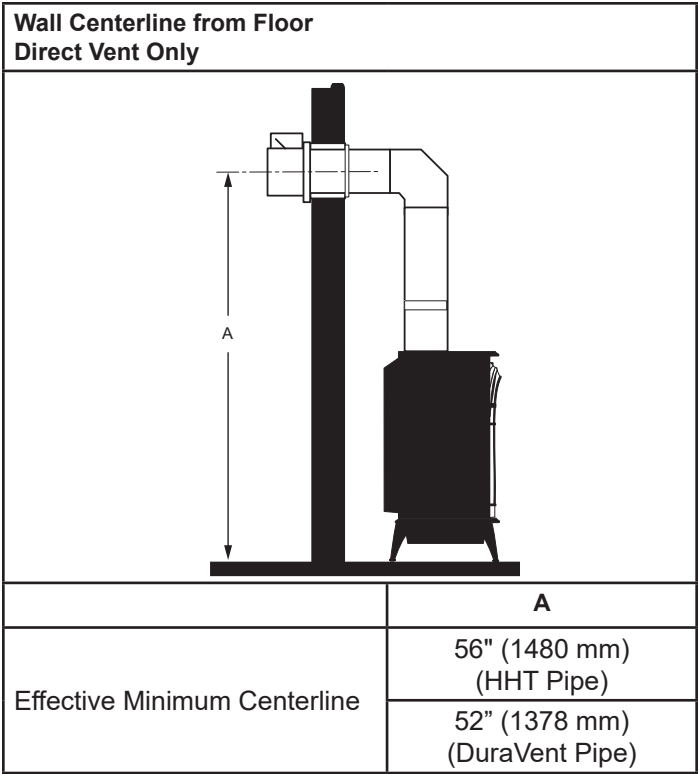


Figure 2.5 - Minimum wall centerline.

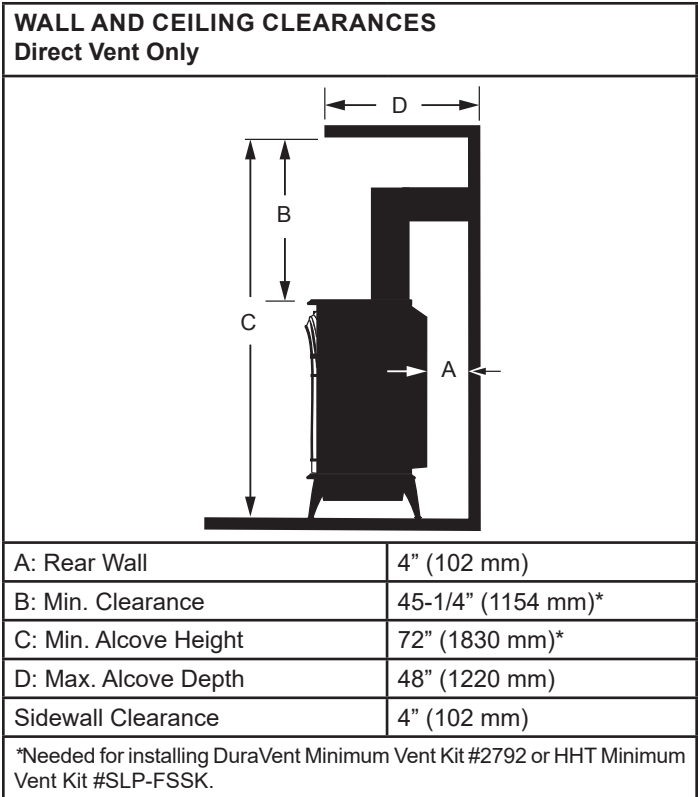


Figure 2.6 - Dimensions and clearances to ceiling or alcove.

F. Gas Specifications

Model	Fuel	Control	Max. Input BTU/h	Min. Input BTU/h
SDDVT	Nat.	Millivolt Manual	28,000	20,000
SDDVT	LP	Millivolt Manual	25,000	21,000
SDVT-IFT	Nat.	IFT	28,000	20,000
SDVT-IFT	LP	IFT	25,000	21,000

Gas Inlet and Manifold Pressures

	Natural	Liquid Propane
Inlet Minimum	5.5" w.c.	11.0" w.c.
Inlet Maximum	10.0" w.c.	13.0" w.c.
Manifold Pressure	3.5" w.c.	10.0" w.c.
Air Shutter Setting	1/2" open	1/2" open

The installation of your Vermont Castings stove must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code ANSI Z223.1/ NFPA 54 - latest edition, or CSA B149.1 Installation code. (EXCEPTION: Do not derate this appliance for altitude up to 2,000 (610 m) for natural gas and 4,500 feet (1,370 m) for LP Gas. Maintain the manifold pressure at 3.5" w.c. for Natural Gas and 10.0" w.c. for LP Gas.

HIGH ELEVATIONS

Input ratings are shown in BTU per hour and are certified without deration for elevations up to 2,000 feet (610 m) for natural gas and 4,500 feet (1,370 m) for LP gas above sea level.

In the USA installations with elevations above 2,000 feet (610 m) for natural gas and 4,500 feet (1,370 m) for LP gas must be in accordance with the current ANSI Z223.1/NFPA 54 and/or local codes having jurisdiction.

In Canada, please consult provincial and/or local authorities having jurisdiction for installations at elevations above 2,000 feet (610 m) for natural gas and 4,500 feet (1,370 m) for LP gas.



WARNING

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

G. Vent Terminations & Clearances

Horizontal Termination

The vent must rise vertically a minimum of 24" (610 mm) off the top of the unit, before the first elbow. The horizontal run may extend up to 20' (6m) and include a vertical rise of up to 40' (12 m). (Figure 7) Horizontal termination must also meet the criteria shown in Figures 2.11 through 2.12.

- Approved vent systems must terminate above and including the heavy line in Figure 2.7.
- Two 45° elbows may be substituted for each single 90° elbow.
- With a rise between 2' - 5', one 90° or two 45° elbows may be used.

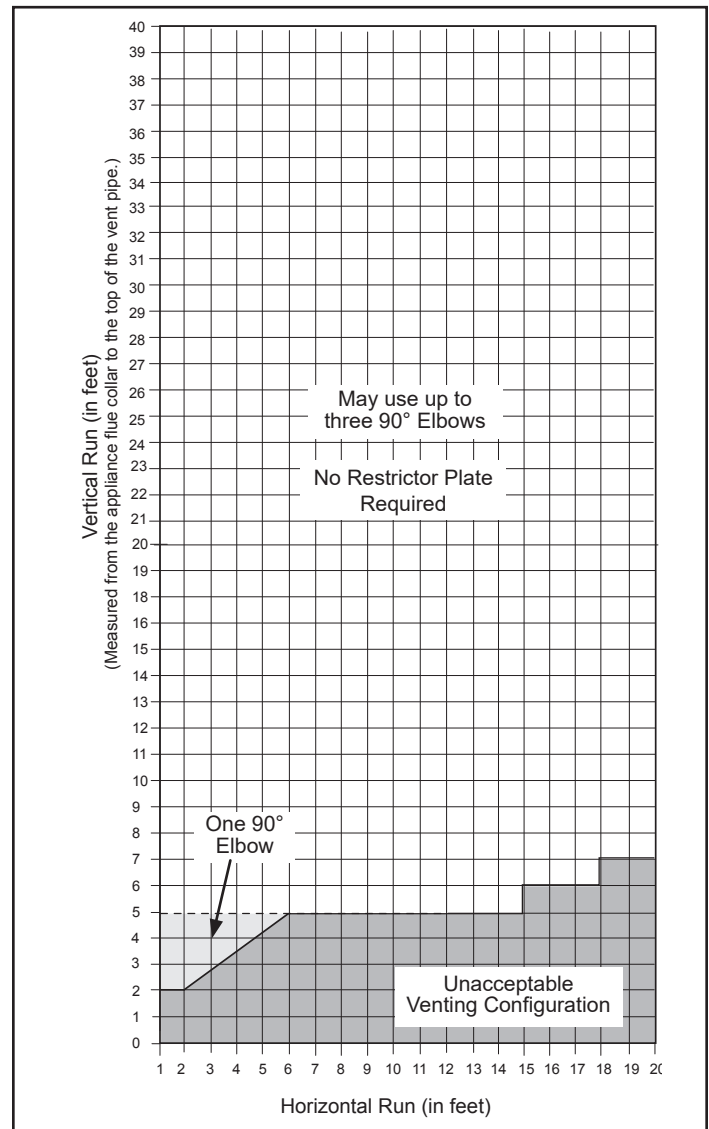


Figure 2.7 - Horizontal vent termination window.

Vertical Termination

A vertical vent system must terminate no less than 8' (2.44 m) and no more than 40' (12 m) above the appliance flue collar. A restrictor plate (supplied) must be used, where specified, in all vertically terminated vent systems. (Refer to Figure 2.8) NOTE: The restrictor plate supplied with the vertical termination should be discarded. Adjust the restrictor plate according to recommendations in Figure 2.10. A vertically terminated vent system must also conform to the following criteria:

- No more than three 90° elbows may be used.
- Two 45° elbows may be substituted for one 90° elbow. No more than six 45° elbows may be used.
- Vent must rise a minimum of 2 feet (305 mm) before offset is used.
- Termination height must conform to roof clearance as specified in Figure 2.11.

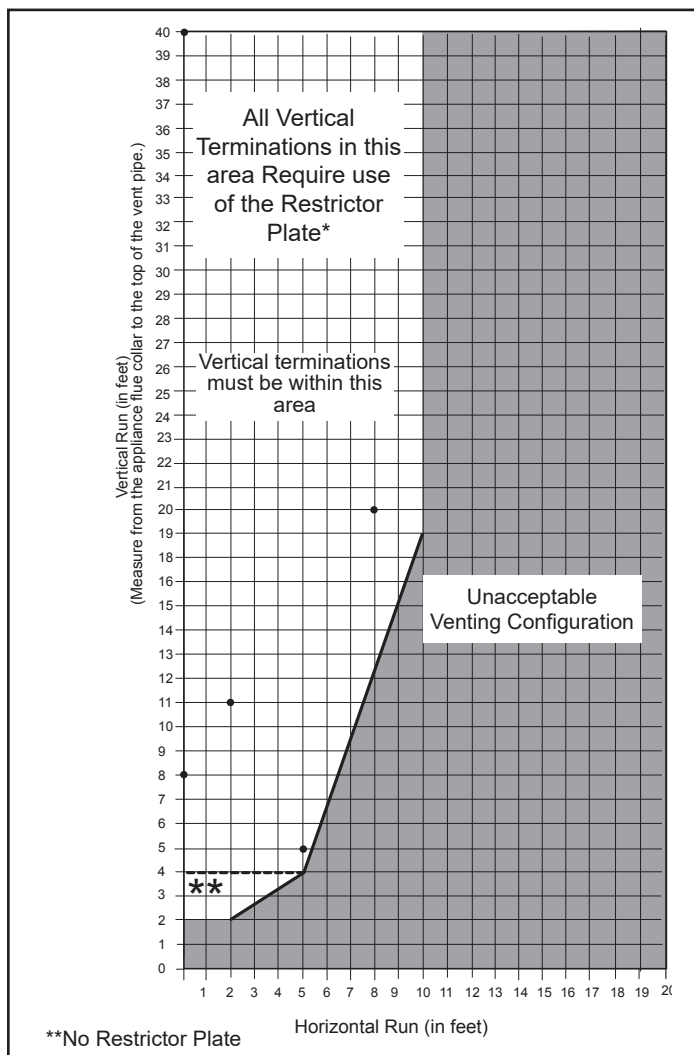


Figure 2.8 - Vertical vent termination window.

Restrictor Plate Adjustment for Extended Pipe Runs

The Stardance stove is shipped with a restrictor plate in the Parts Bag. Adjustments can be made by loosening the adjustment screw to allow the restrictor plate to slide up or down, Figure 2.9. A guide for usage is shown in Figure 2.10.

NOTE: Some installations may require some adjustment by the installer for optimum flame appearance. Optimum flame appearance is a flame that is not subject to tall, dirty yellow flames producing soot or flames lifting off of the ember bed ports.

Restrictor Plate Adjustment

- Remove the screw in the back wall of the firebox.
- Install restrictor plate as shown in Figure 2.9 with cut out on left side. Secure with adjustment screw.
- Measure from center of screw to top edge of diverter (Figure 2.9) to adjust plate according to guidelines in Figure 2.10.
- Tighten attachment screw.
- Install logs following log installation instructions.

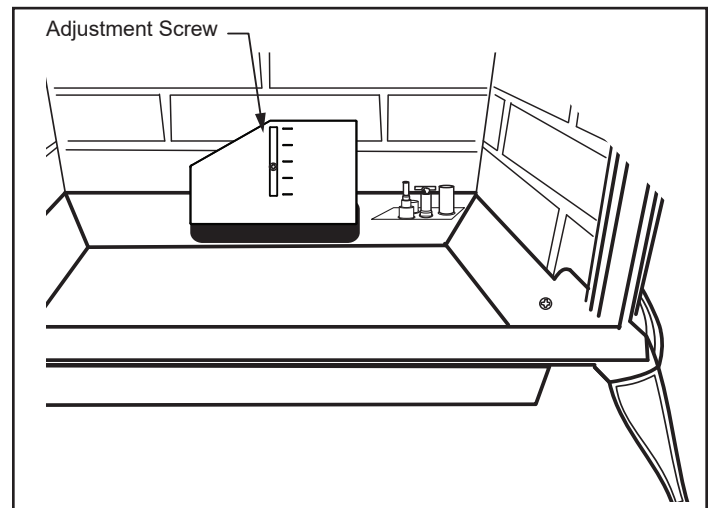


Figure 2.9 - Loosen screw to adjust restrictor plate.

Firebox Restrictor Settings					
	Vertical Vent Run				
	4'-11'	12'-19'	20'-27'	28'-35'	35'-40'
Restrictor Settings	1	2	3	4	5
Note: Numbering system starts with 1 on the bottom					

Figure 2.10

Vent Termination Clearances

When planning the installation, consider the location of the vent terminal and clearances. Some of the most common clearances to keep in mind are shown in Figure 2.11.

Important: All vent clearances must be maintained. Check your vent termination clearances against Figures 2.11 and 2.12.

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

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

Some considerations are:

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

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

IMPORTANT

The horizontal termination must not be recessed into the exterior wall or siding.

Horizontal vent runs must be level toward the vent termination.

Clearances around the vent termination must be maintained.

For installations using DuraVent pipe, parallel installations with minimum wall clearance have restricted access for connecting the Horizontal Vent Cap straps to the vent pipe. See the maker's instructions for recommended installation procedures.

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

- HHT does not require any opening for inspection of vent pipe.
- Only HHT SLP venting components or DuraVent venting components specifically approved and labeled for this stove may be used.
- Maintain minimum clearances between vent pipes and combustible materials.
- Venting terminals shall not be recessed into a wall or siding.
- Any horizontal run must have a 1/4" rise for every one (1) foot of run towards the vent termination. Never run the vent level or down.

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

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

Location of Vent Termination

It is imperative the vent termination be located observing the minimum clearances as shown in this manual.

H. Chimney Diagram

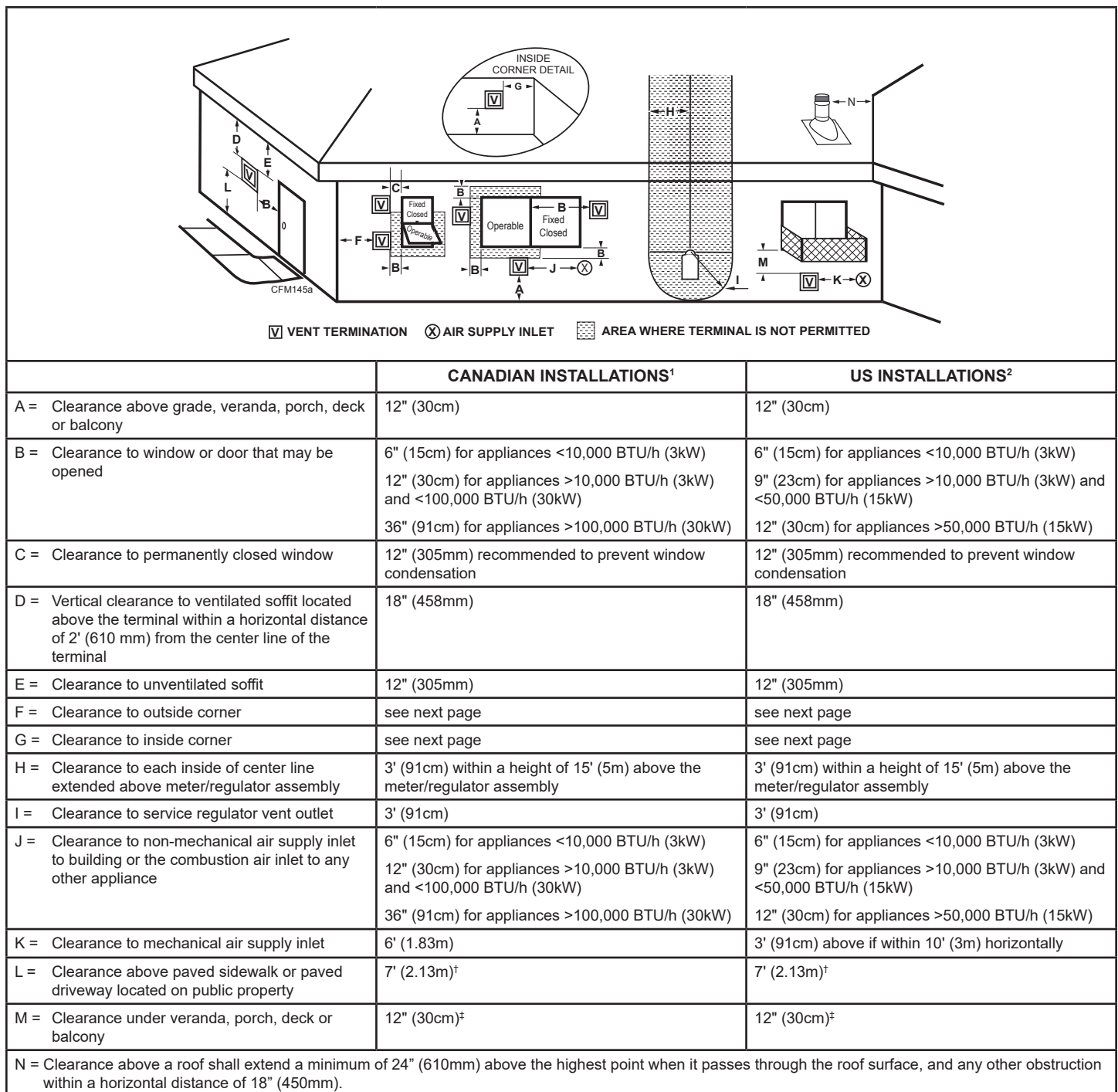


Figure 2.11 - Vent termination clearances.

1. In accordance with the current CSA-B149 Installation Codes
2. In accordance with the current ANSI Z223.1/NFPA 54 National Fuel Gas Codes

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

‡ Only permitted if veranda, porch, deck or balcony is fully open on a minimum 2 sides beneath the floor.

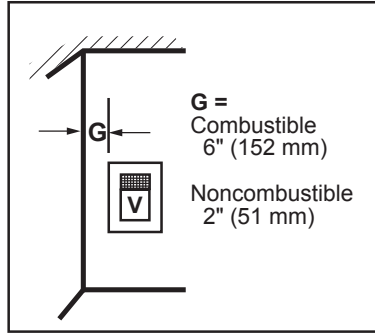
NOTE:

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

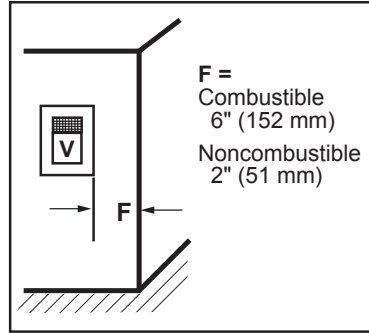
Termination Clearances

Termination clearances for buildings with combustible and noncombustible exteriors.

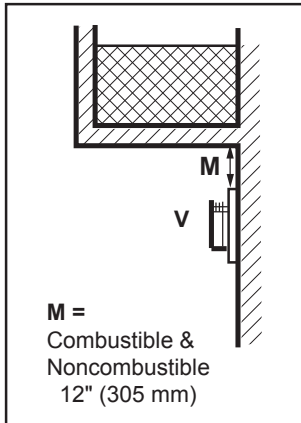
Inside Corner



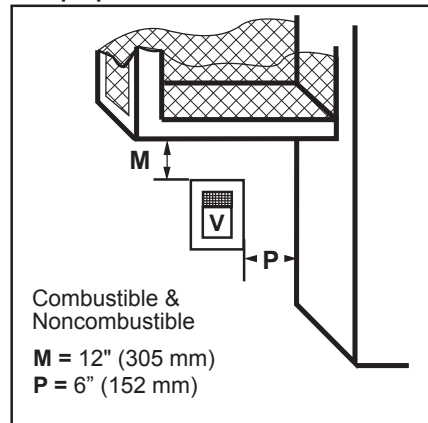
Outside Corner



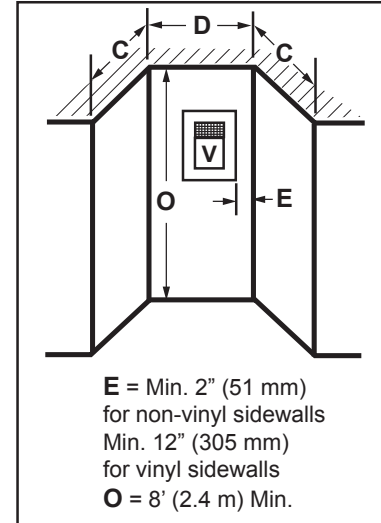
Balcony - with no side wall



Balcony - with perpendicular side wall



Alcove Applications*



# of Caps	D _{Min.}	C _{Max.}
1	3' (914 mm)	2 X D _{Actual}
2	6' (1.8 m)	1 X D _{Actual}
3	9' (2.7 m)	2/3 X D _{Actual}
4	12' (3.7 m)	1/2 X D _{Actual}

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

***NOTE:** Termination in an alcove space (spaces open only on one side and with an overhang) is permitted with the dimensions specified for vinyl or non-vinyl siding and soffits.

1. There must be a 3' (914 mm) minimum between termination caps.
2. All mechanical air intakes within 10' (1 m) of a termination cap must be a minimum of 3' (914 mm) below the termination cap.
3. All gravity air intakes within 3' (914 mm) of a termination cap must be a minimum of 1' (305 mm) below the termination cap.

Figure 2.12 - Termination clearances.

3 Assembly and Installation

A. Venting Requirements & Options

Approved Vent System Components

The Stardance Heater must be vented to the outdoors through an adjacent exterior wall or through the roof. The venting system must be comprised of the appropriate listed venting components specified on this page. These parts are available from DuraVent Corporation or your Vermont Castings Dealer.

See Figure 2.4 for dimensions relevant to the standard minimum-vent kits.

HHT Components*

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

DuraVent Components

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

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

B. Assembling the Stove:

Tools Required

- Phillips screwdriver (stub)
- Utility knife
- Metal drill bit: size 28 (.140"/3.5mm)
- Flat-blade screwdriver
- Power drill
- Reciprocating saw
- 9/16" wrench
- 1/2" Wrench
- 3/8" Wrench

Parts Bag Contents:

- Three (3) Vent Screws
- Wood handle w/insert lifter (handle for operable door)
- Restrictor Plate
- 4" Starter pipe
- Wireless Remote
- Three (3) Phillips round-head bolts, 1/4"- 20 x 1/2"
- One (1) Tube of Vent Gasket Cement
- Four (4) CS, Hex Hd 3/8-16 x 1 Gr 2-Z
- Four (4) Washer, FI 3/8-Z
- LP Conversion Kit
- Owner's Installation and Operating Manual

Unpack Stove

Using the 1/2" wrench remove the (4) lag bolts installed through the shipping brackets and into the skid. Once the lag bolts are removed, remove the shipping brackets from each leg using a 3/8" wrench. These bolts can be discarded after removal. Install the (4) leg levelers provided in the manual bag using a 9/16" wrench as needed.



WARNING

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

C. Venting System Assembly



CAUTION

All HHT Direct Vent Stoves have been tested and approved to ANSI/CSA Standards and will operate safely when installed in accordance with this instruction manual. Read all instructions before starting installation, then follow these instructions carefully to maximize stove performance and safety. Report damaged parts to your dealer.



WARNING

Always maintain minimum clearances around vent systems. Rear/Top Vent Vertical Side wall: Horizontal sections of this vent system require a minimum of 3" (76 mm) clearances to combustibles at the top of the flue and 1" (25 mm) clearance at the sides and bottom until the flue penetrates the outside wall. A minimum 1" clearance all around the flue is acceptable at this point of penetration. If vertical rise is 7 1/2 feet (2.3 m) or higher when top venting, the clearance to combustibles is 1" on all sides of the horizontal run. FOR VERTICAL RUNS ONLY, maintain a 1" (25 mm) minimum clearance to all sides. Do not pack the open air spaces around the stove or flue with insulation or other materials. Any horizontal run must have a 1/4" rise for every one (1) foot of run towards the vent termination. Never run the vent level or down.



WARNING

Failure to follow these instructions may create a possible fire hazard and will void the warranty.



WARNING

Any common venting of this gas appliance with other gas appliances is not allowed.

Important Safety Information

The termination cap **MUST** be vented directly to the outside. The termination kit **MUST NEVER** be connected to a chimney flue(s) servicing a separate solid-fuel burning appliance or any other appliances.

- Termination cap **MUST NOT** be recessed into a wall, Figure 3.1.
- The installation must conform with local codes or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1 (in the United States) or with the current installation code CSA B149 (in Canada).

- These models are approved to use HHT direct vent pipe components, HHT termination kits and DuraVent components. No other venting system components may be used.
- Horizontal runs must be supported every 3 feet (914 mm) using wall straps. Vertical runs must be supported every 8 feet (2.4 m) using wall straps. Slip wall straps loosely on to pipe. Attach straps to framing members using nails or screws. Tighten nut/bolt to secure pipe.
- The stove and venting system should be inspected before initial use and at least annually by a qualified field service person. Inspect the external vent cap on a regular basis to make sure that no debris is interfering with the airflow. Inspect entire venting system to ensure proper function.

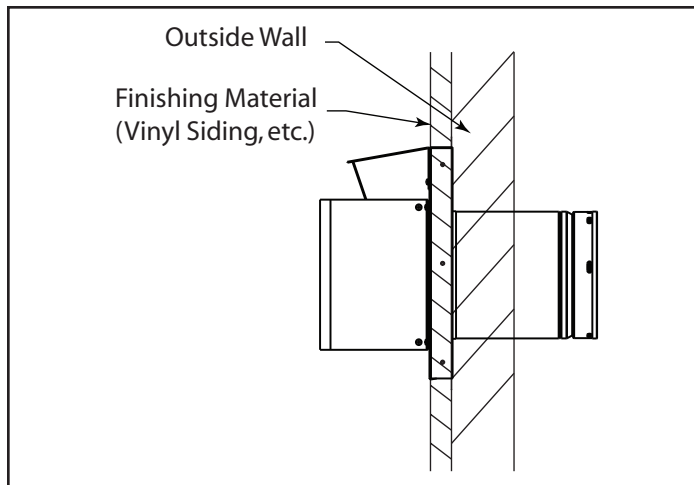


Figure 3.1 - Termination cap on wall

Before You Start

Plan your installation. Set the stove in place and survey how to best vent the unit. Select the appropriate termination kit and vent pipe for the installation. Read these instructions and the stove Owner's Manual before beginning installation. After vent configuration has been decided, begin attaching pipe to unit.

Items required for installation:

Tools:

Phillips screwdriver	Hammer
Saw and/or saber saw	Level
Measuring Tape	Electric drill and bits
Pliers	Square

Building Supplies:

Framing materials
Wall finishing materials
Caulking Material (noncombustible)

WARNING

Any horizontal run must have a 1/4" rise for every one (1) foot of run towards the vent termination. Never allow the vent pipe to run down. This could cause high temperatures and may present a fire hazard.

WARNING

Termination cap must be positioned so the embossed arrow is pointed up.

General Information

The Stardance is approved for installation only with the vent components listed under Section A "*Venting Requirements & Options*". Follow the vent component instructions exactly.

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

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

Install the starter Pipe

1. Attach the starter to the stove.
2. Place a 3/8" bead of sealant around the inside of the cast starter collar. Stove cement is provided in the manual bag for this purpose. Insert the 6-5/8" outer adapter into the cast outer starting collar and press down firmly.
3. Install the CCSLP Outer Adapter Pipe.
4. Place a 3/8" bead of sealant around the 4" crimped end of the starter collar on the stove. Stove cement is provided in the manual bag for this purpose. Attach the SLP pipe to the adapter, and secure by aligning adapter and pipe seams, pressing down firmly until pipe stops, and twisting to lock into place, Figure 3.2.

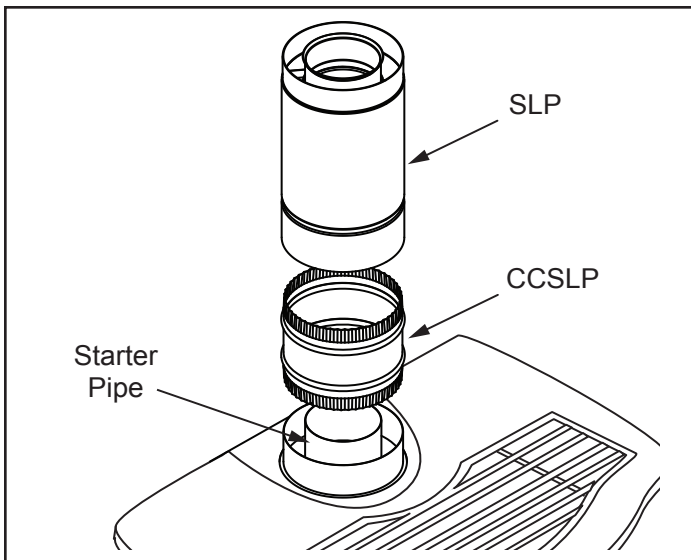


Figure 3.2 - Attach inner assembly to flue collar.

Assemble Slip Sections

The outer flue of the slip section should slide over the outer flue of the pipe section and into (inner flue) the last pipe section, Figure 3.4.

Slide together to the desired length, making sure that a 1-1/2" outer flue overlap is maintained between the pipe section and slip section.

The pipe and slip section need to be secured by driving two 1/2 in. screws through the overlapping portions of the outer flues using the pilot holes, Figure 3.5.

This will secure the slip section to the desired length and prevent it from separating. The slip section can then be attached to the next pipe section.

If the slip section is too long, the inner and outer flues of the slip section can be cut to the desired length.

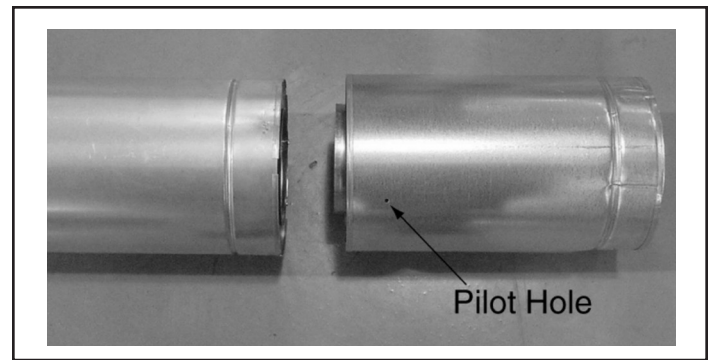


Figure 3.4 - Slip Section Pilot Holes

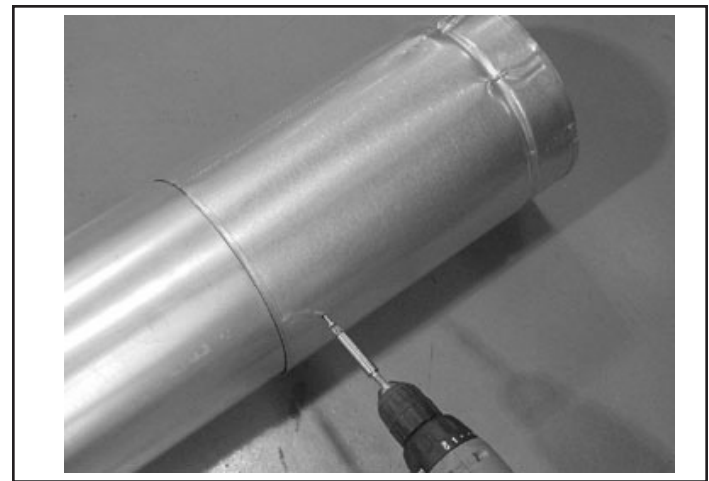


Figure 3.5 - Screws into Slip Section

Secure the Vent Sections

Vertical sections of SLP pipe must be supported every 8 feet.

The SLP firestop includes tabs that may be used to secure vertical sections.

The vent support or plumber's strap (spaced 120° apart) may be used to secure the vertical sections of pipe, Figure 3.6.

Horizontal sections of vent must be supported every 5 feet with a vent support or plumber's strap, Figure 3.7.

 WARNING
Risk of Fire/Explosion! DO NOT break seals on slip sections. Use care when removing termination cap from slip pipe. If slip section seals are broken during removal of the termination cap, vent may leak.

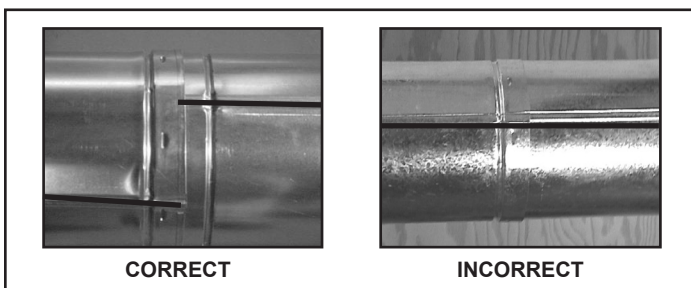


Figure 3.3 - Make sure the seams are not aligned to prevent unintentional disconnection.



WARNING

Risk of Fire/Explosion/Asphyxiation! Improper support may allow vent to sag and separate. Use vent run supports and connect vent sections per installation instructions. **DO NOT** allow vent to sag below connection point to appliance.

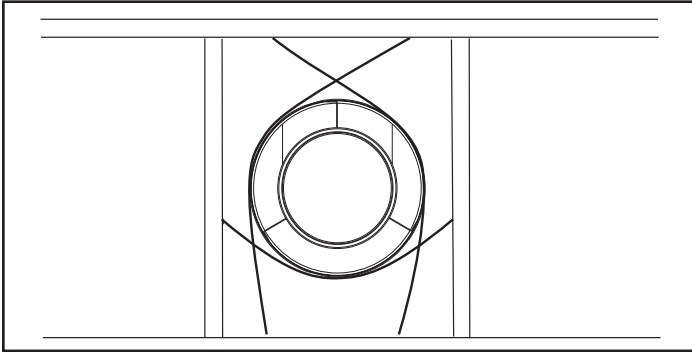


Figure 3.6 - Securing Vertical Pipe Sections

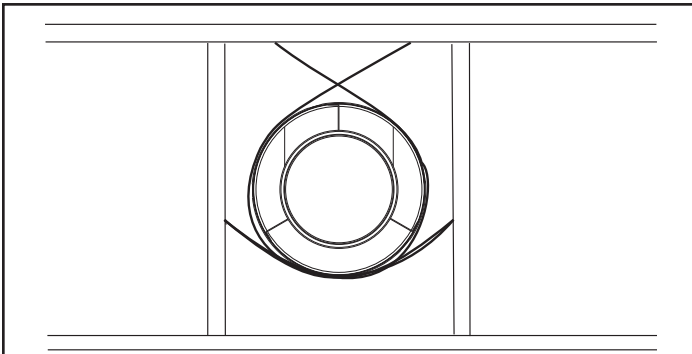


Figure 3.7 - Securing Horizontal Pipe Sections

Disassemble Vent Sections:

To disassemble any two pieces of pipe, rotate either section, Figure 3.8, so that the seams on both pipe sections are aligned, Figure 3.9. They can then be carefully pulled apart.

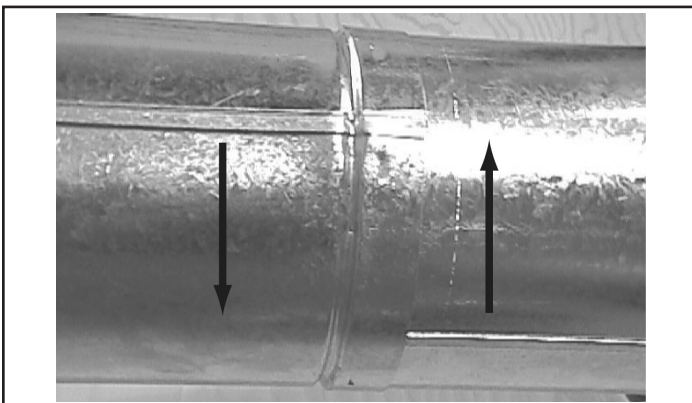


Figure 3.8 - Rotate Seams for Disassembly

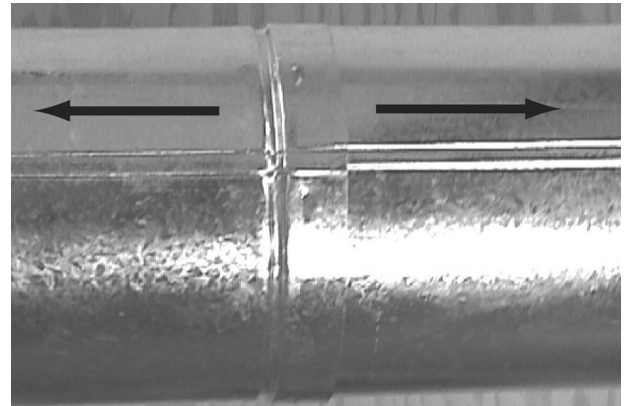


Figure 3.9 - Align and Disassemble Vent Sections

Horizontal Termination Cap:



WARNING

Risk of Fire! The telescoping flue section of the termination cap **MUST** be used when connecting vent.

- 1-1/2" (38 mm) minimum overlap of vent and telescoping flue section is required.

Failure to maintain overlap may cause overheating and fire.

Note: For horizontal vent runs through a combustible wall and framing dimensions, refer to appliance installation manual.

Install the Horizontal Termination Cap

Attach slip section of cap to last vent section. Maintain 1-1/2" overlap between slip and vent sections.

Note: For installations using black pipe, slide the decorative wall thimble over the last vent pipe before connecting the termination to the pipe. When this connection has been made, slide the wall thimble up to the interior wall surface and attach with screws provided.

Secure termination cap to exterior wall using provided holes and fasteners.

Vent termination must not be recessed in the wall. Siding may be brought to the edge of the cap base.



CAUTION

Risk of Burns! Local codes may require installation of a termination guard to prevent anything or anyone from touching the hot cap.

Flash and seal as appropriate for siding material at outside edges of cap.

When installing a horizontal termination cap, follow the cap location guidelines as prescribed by current ANSI Z223.1 and CAN/CGA-B149 installation codes.

Divert Roof Run-off

HHT recommends, where excessive water run-off is possible, use of one of the two options shown in Figure 3.10 to prevent water running off the roof and onto/into the horizontal termination cap.

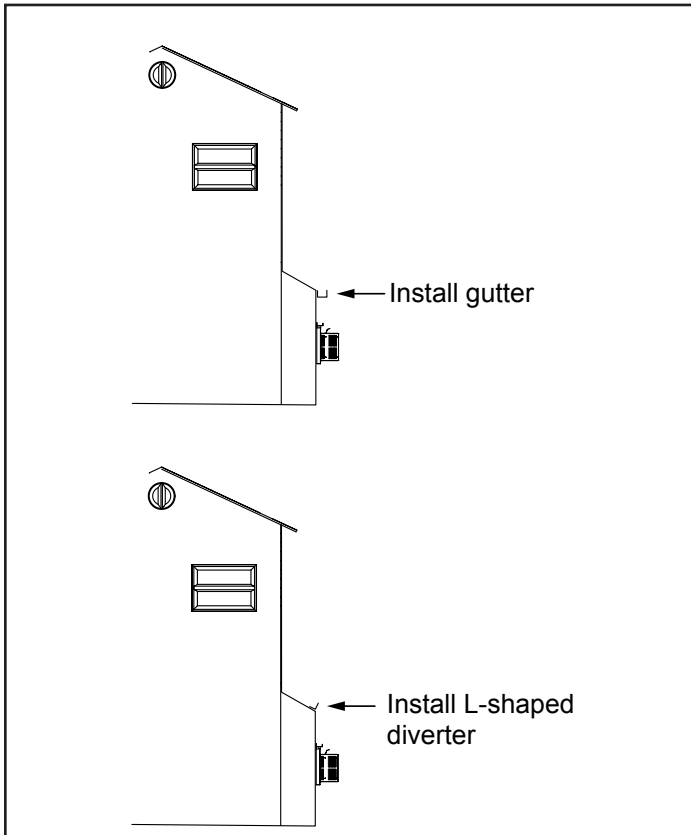


Figure 3.10 - Locate Vent Opening on Wall

Vertical Side Wall Installation:

NOTE: Refer to Figures 2.8 thru 2.10 for restrictor plate adjustments for vertical vent runs.

1. Locate vent opening on the wall. It may be necessary to first position the stove and measure to obtain hole location. Depending on whether the wall is combustible or noncombustible, cut opening to size, Figure 3.11 (For combustible walls first frame in opening.) Combustible Walls: Cut a 9" H x 9" W (244 x 244 mm) hole through the exterior wall and frame as shown, Figure 3.11. Noncombustible Walls: Hole opening must be 7" (178 mm) in diameter.

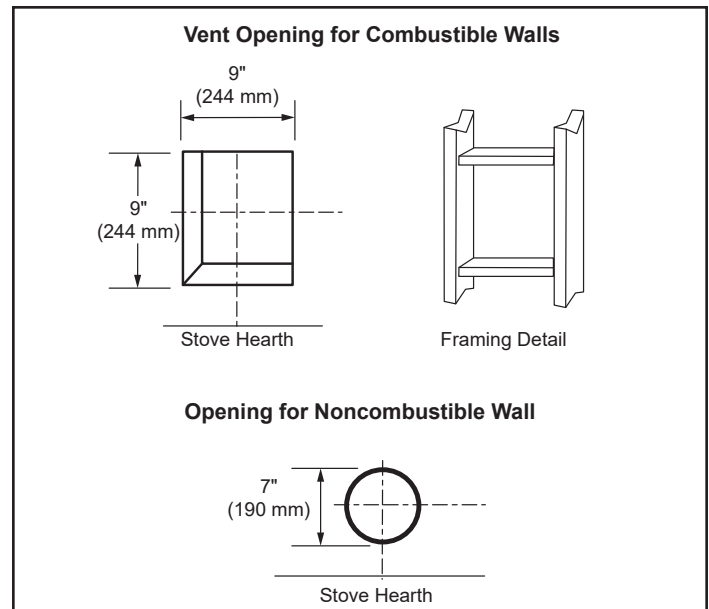


Figure 3.11 - Locate Vent Opening on Wall

2. Secure firestop to the inside frame, center in the 9" x 9" vent opening.
3. Place stove into position. Measure the vertical height (X) required from the base of the flue collars to the center of the wall opening, Figure 3.12

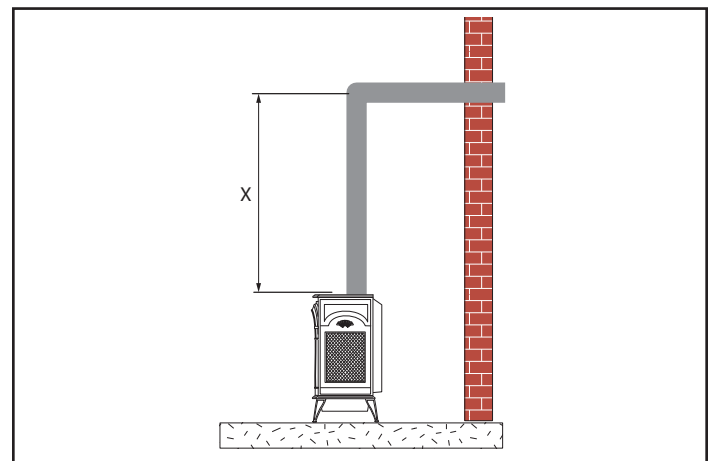


Figure 3.12 - Vertical Height Requirements

4. Using appropriate length of pipe section(s) attach to stove by twisting collar.
5. Measure the horizontal length requirement including a 2" (51 mm) overlap, i.e. from the elbow to the outside wall face plus 2" (51 mm) (or the distance required if installing a second 90° elbow), Figure 3.13.

NOTE: Always install vertical side wall horizontal venting with a 1/4" rise for every 12" of run.

6. Use appropriate length of pipe sections – telescopic or fixed – and install. The sections which go through the wall are packaged with the starter kit, and can be cut to suit if necessary.
7. Guide the vent terminations 4" and 6-5/8" collars into their respective vent pipes. Double check that the vent pipes overlap the collars by 2" (51 mm). Secure the termination to the wall with screws provided and caulk around the wall plate to weatherproof. As an alternative to screwing the termination directly to the wall, you may also use expanding plugs or an approved exterior construction adhesive.

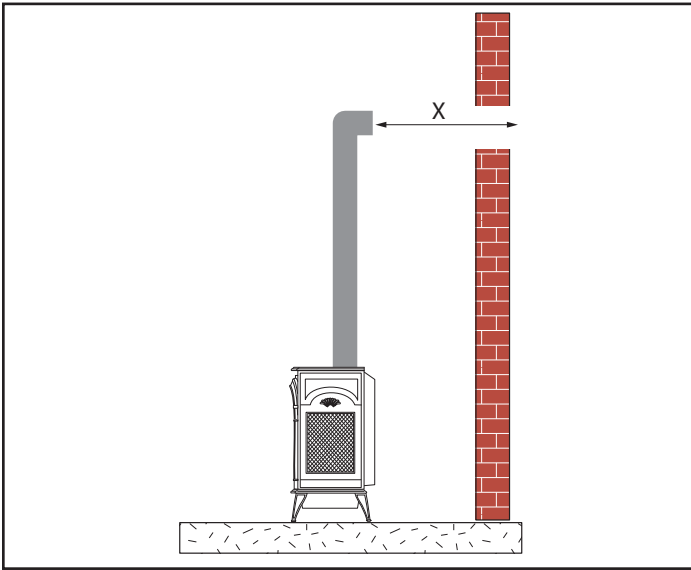


Figure 3.13 - Horizontal Length Requirement

NOTE: Support horizontal pipes every 5' (152 cm) with metal pipe straps.

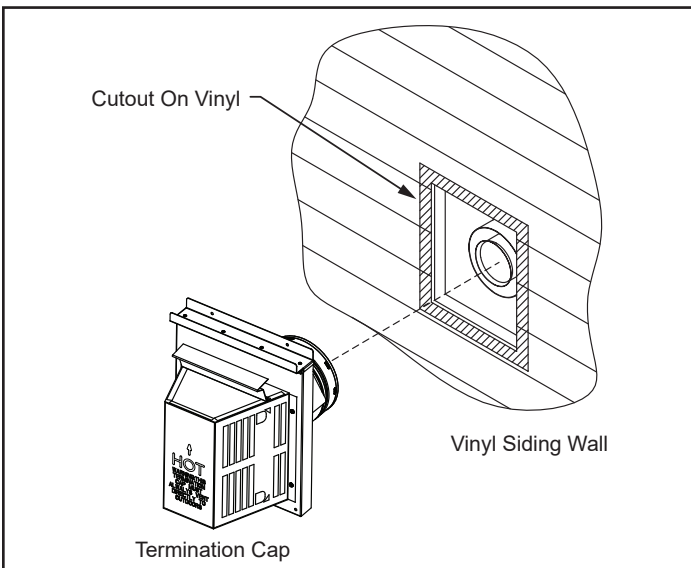


Figure 3.14 - Horizontal Termination Cap on a Vinyl Siding Wall

Vent Termination Below Grade:

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

NOTE: Be sure to maintain side wall clearances and vent run restrictions. Refer to Figures 2.3 thru 2.6.

1. Establish the vent hole through the wall.
2. Remove soil to a depth of approximately 16" (406 mm) below the base of the snorkel. Install a window well (not supplied). Refill the hole with 12" (305 mm) of coarse gravel and maintain a clearance of at least 4" (102 mm) below the snorkel, Figure 3.16.
3. Install the vent system as described in Figures 3.2 thru 3.9.
4. Be sure to make a watertight joint around the vent pipe joint at the inside and outside wall joints.
5. Apply high temperature sealant around the inner and outer snorkel collars. Join the pipes and fasten the snorkel termination to the wall with the screws provided.
6. Level the soil to maintain a 4" clearance below the snorkel.
7. If the foundation is recessed, use extension brackets (not supplied) to fasten the lower portion of the snorkel. Fasten the brackets to the wall first, and then fasten to the snorkel with self-tapping #8 x 1/2" sheet metal screws. Extend the vent pipes out as far as the protruding wall face, Figure 3.15.

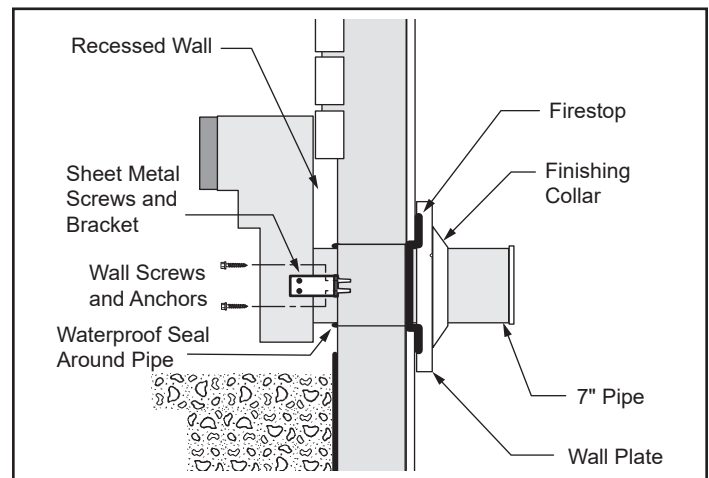


Figure 3.15 - Use extension brackets to mount snorkel against recessed wall.

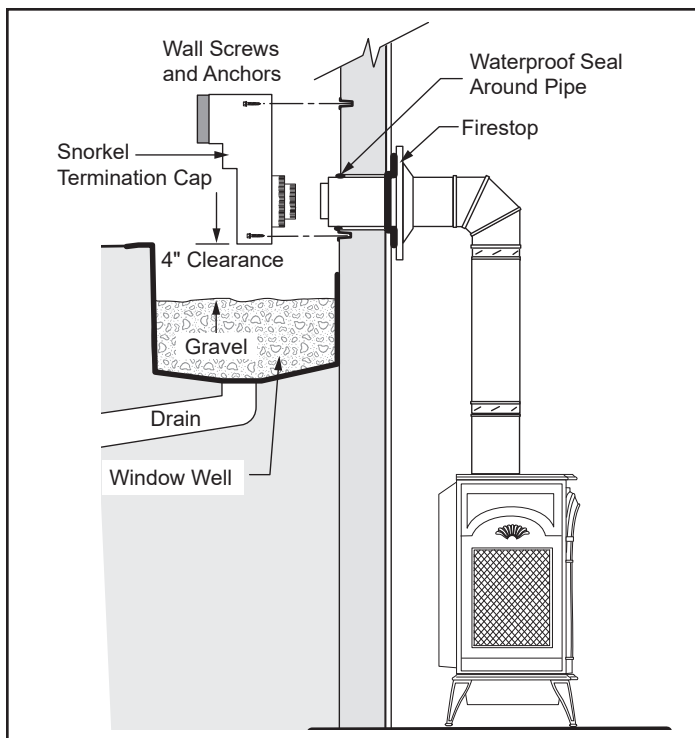


Figure 3.16 - Snorkel kit installation.

Vertical Through-The-Roof Application/Installation:

Note: Refer to Figures 2.8 thru 2.10 for restrictor plate adjustments for vertical vent runs.

This gas stove has been approved for:

- Vertical installations up to 40 feet (12 m) in height. Up to a 10 feet (3 m) horizontal vent run can be installed within the vent system using a maximum of two 90° elbows, Figure 3.17.
- Up to two 45° elbows may be used within the horizontal run. For each 45° elbow used on the horizontal plane, the maximum horizontal length must be reduced by 18" (450 mm).

Example: Maximum horizontal length:

No elbows = 10' (3 m)
 1 x 45° elbow = 8.5' (2.6 m)
 2 x 45° elbows = 7' (2.1 m)

- A minimum of an 8 feet (2.5 m) vertical rise is required, Figure 3.17.
- Two sets of 45° elbow offsets may be used within the vertical sections. From 0 to a maximum of 8 feet (2.5 m) of vent pipe can be used between elbows, Figure 3.17.
- SLP-HVS supports offsets. This application will require that you first determine the roof pitch and use the appropriate starter kit. (Refer to Venting Components list.)
- The maximum angular variation allowed in the system is 270°, Figure 3.18
- For the minimum height of the vent above the highest point of penetration through the roof, Figure 3.18.

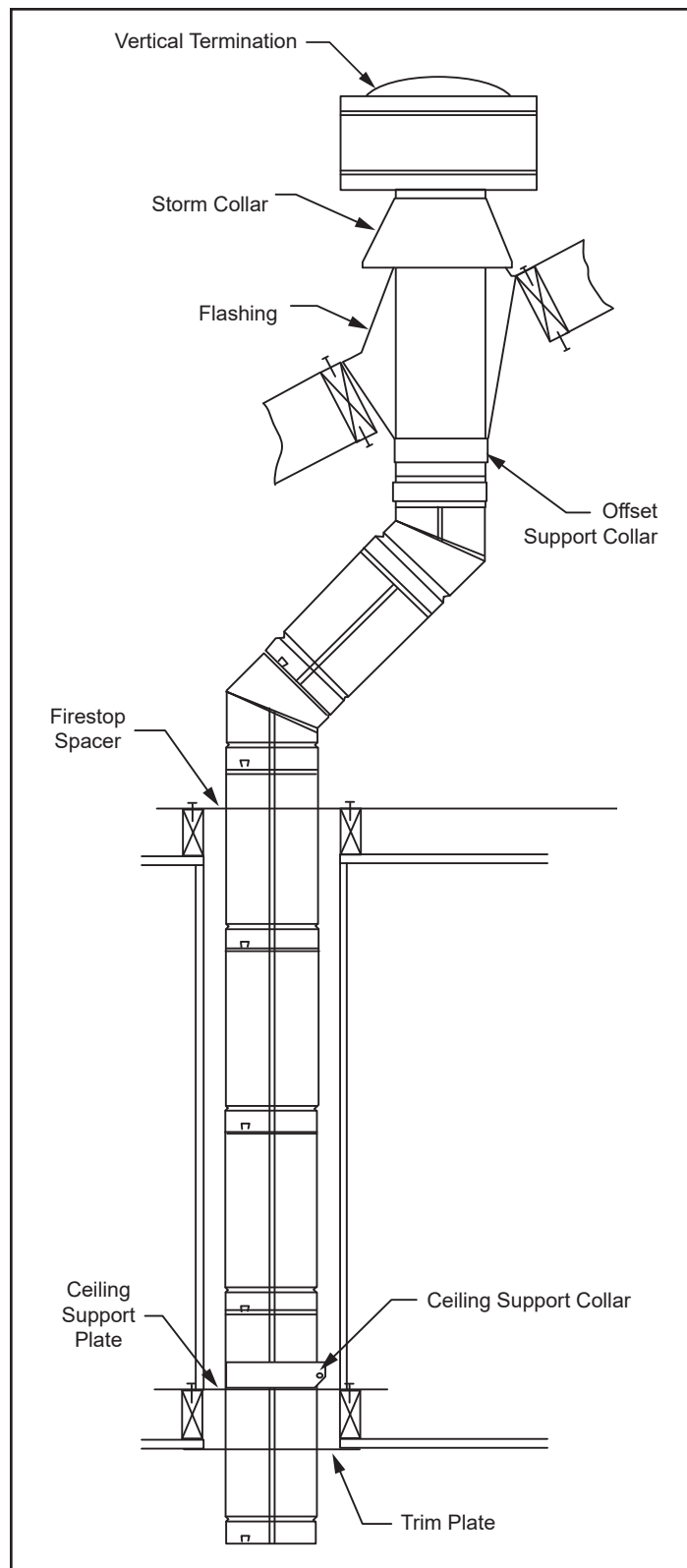
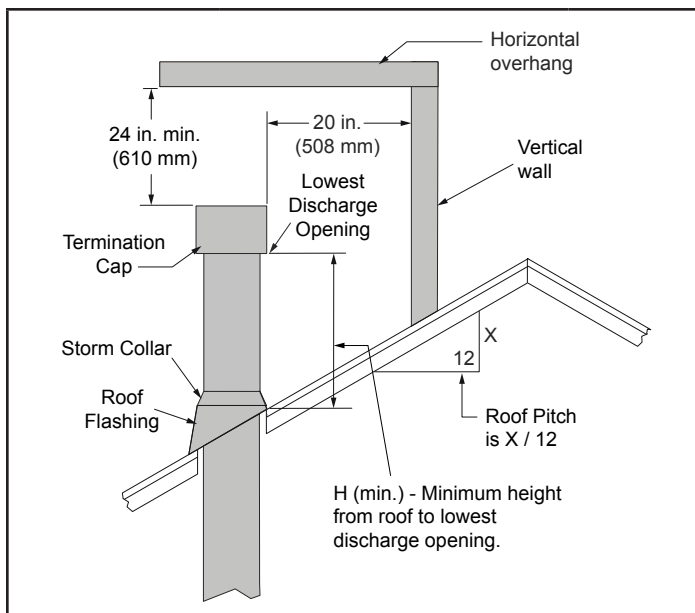


Figure 3.17 - Typical Vertical Venting Configuration



Roof Pitch	H (Min.) Ft.	Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0*	Over 11/12 to 12/12	4.0
Over 6/12 to 7/12	1.25*	Over 12/12 to 14/12	5.0
Over 7/12 to 8/12	1.5*	Over 14/12 to 16/12	6.0
Over 8/12 to 9/12	2.0*	Over 16/12 to 18/12	7.0
Over 9/12 to 10/12	2.5	Over 18/12 to 20/12	7.5
Over 10/12 to 11/12	3.25	Over 20/12 to 21/12	8.0
* 3 Feet. Minimum in Snow Regions			

Figure 3.18 - Minimum Height from Roof to Lowest Discharge Opening

Class A Metal Chimney

Prior to installing the gas stove, ensure that the existing chimney is functionally sound and clean.

- Have the chimney and adjacent structure inspected and cleaned by qualified professionals. Hearth & Home Technologies recommends that NFI or CSIA certified professionals, or technicians under the direction of certified professionals, conduct a minimum of a NFPA 211 Level 2 inspection of the chimney.
- Replace component parts of the chimney and fireplace as specified by the professionals.

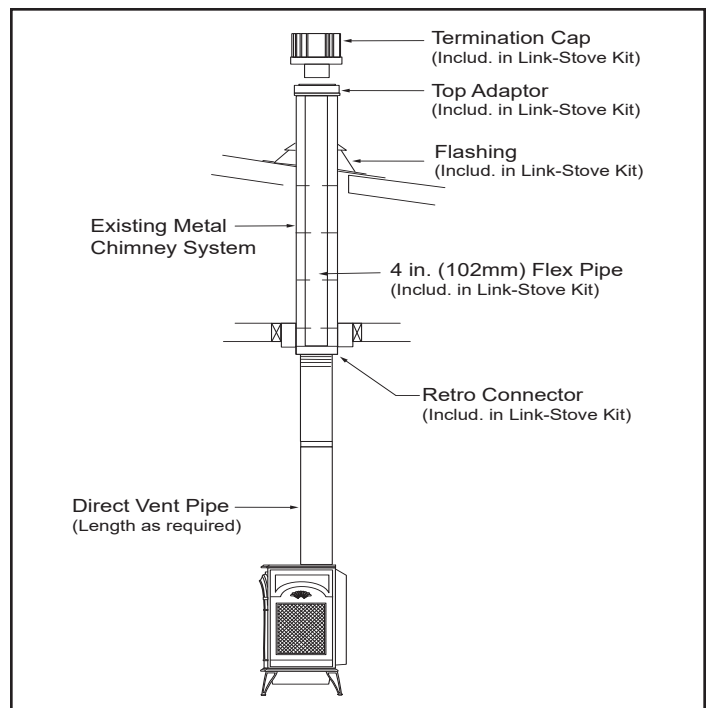


Figure 3.19

1. Remove existing chimney cap.
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).
3. Connect the end of the flex pipe section to the underside of the top adaptor, using four sheet metal screws. See Figure 3.20.
4. Pass the flex pipe down through the center of the chimney system, and center the top adaptor on the top of the chimney pipe. Drill four 1/8 in. (3mm) diameter holes through the top adaptor, 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 adaptor. See Figure 3.21 and Figure 3.22.

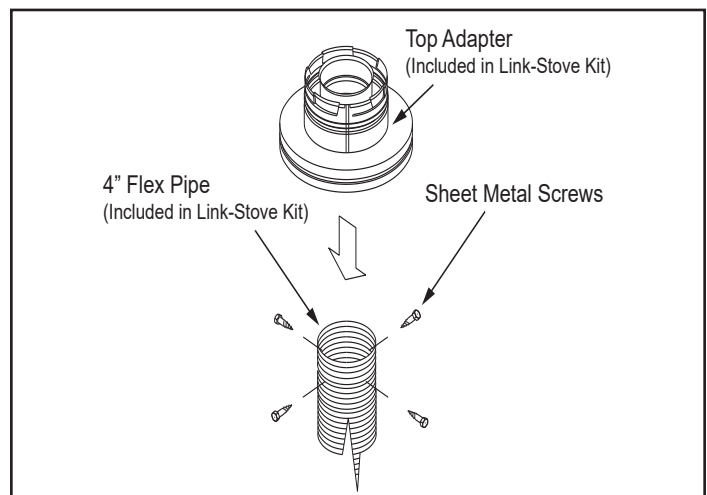


Figure 3.20

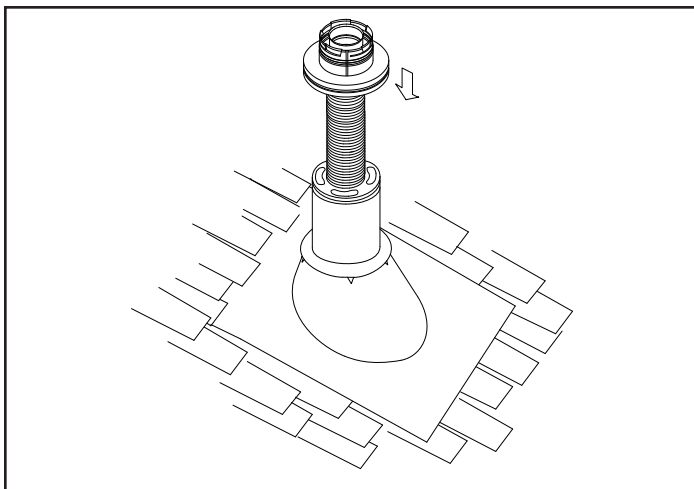


Figure 3.21

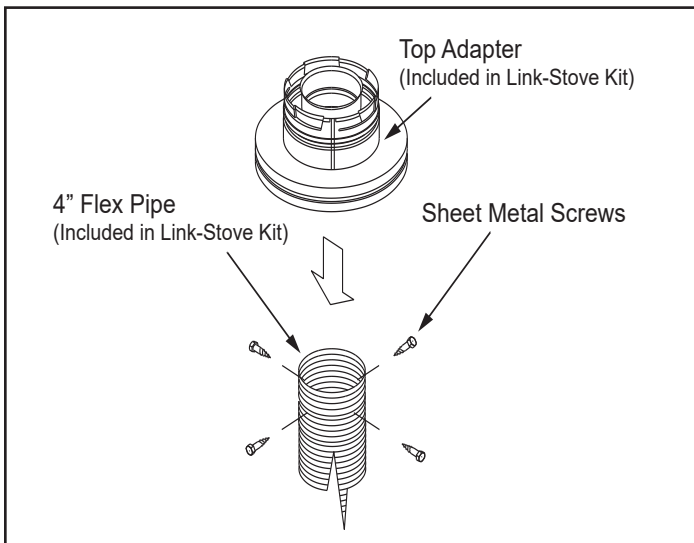


Figure 3.22

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

Existing Masonry Chimney

Prior to installing the gas stove, ensure that the existing chimney is functionally sound and clean.

- Have the chimney and adjacent structure inspected and cleaned by qualified professionals. Hearth & Home Technologies recommends that NFI or CSIA certified professionals, or technicians under the direction of certified professionals, conduct a minimum of a NFPA 211 Level 2 inspection of the chimney.
- Replace component parts of the chimney and fireplaces specified by the professionals.

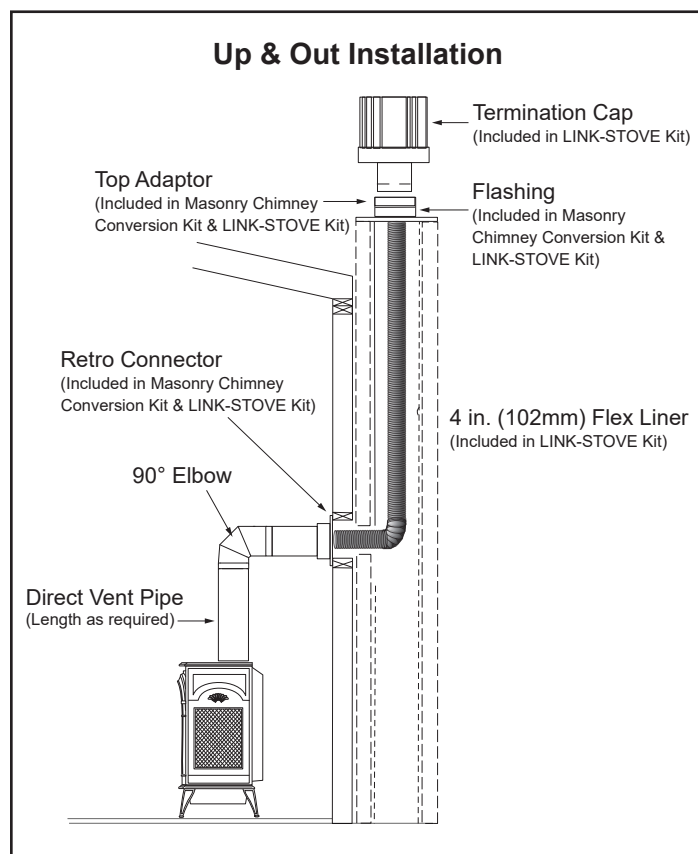


Figure 3.23

D. Log Set Installation

Before beginning log installation, remove stove front and glass frame. Refer to Figures 3.24 and 3.25.

Note: Remove the safety barrier before you remove the glass frame. To remove the barrier, simply lift up and pull out until the tabs are clear of their corresponding slots on the firebox. Then proceed to remove the glass frame by following the steps below.

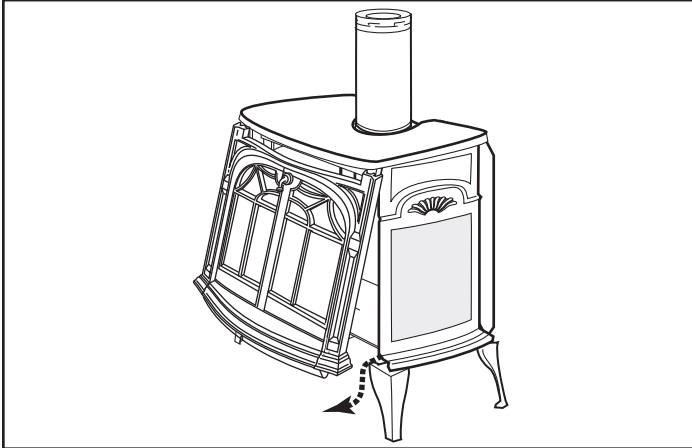


Figure 3.24 - Remove the safety barrier and stove front.

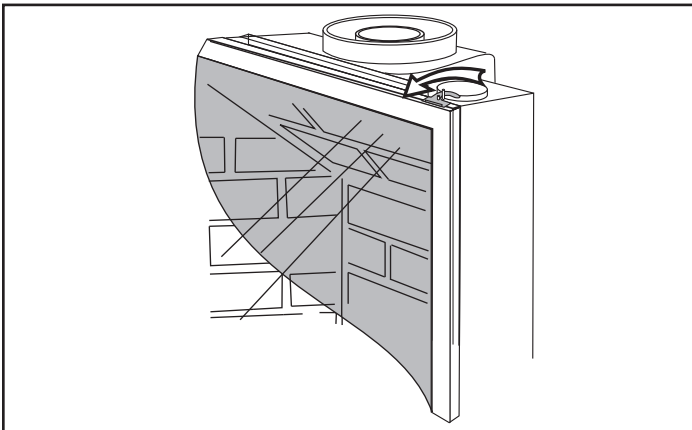


Figure 3.25 - Release the latches to remove the glass frame.



DANGER



HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed.

Before installation, inspect ember bed burner for damage. Do not use ember bed if damaged or cracked. Small, shallow surface cracks are acceptable.

1. Remove the logs from their packaging and inspect each piece for damage. **DO NOT INSTALL DAMAGED LOGS.**
2. Install the rear log by mating the notch on the bottom of the log with the raised notch on the back left side of the ember bed, Figure 3.26. Ensure the cutout in the right side of the log is sitting around the pilot assembly and pilot is not obstructed, Figure 3.27.

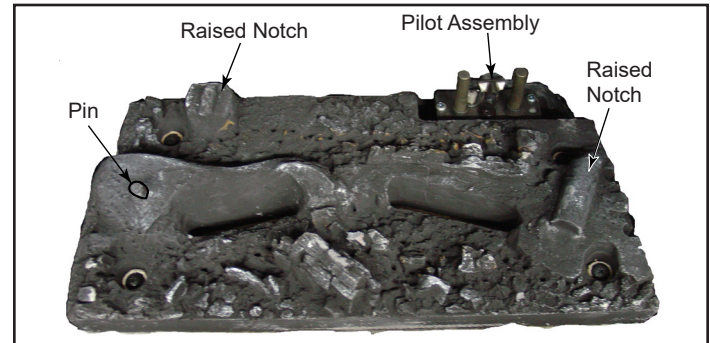


Figure 3.26 - Rear Log

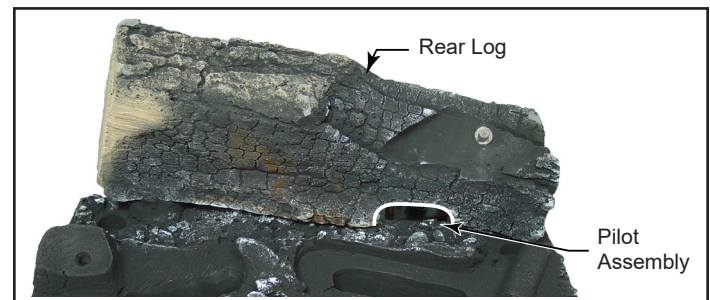


Figure 3.27 - Ribs for Logs

3. Install the left log by mating the hole on the bottom of the log with the pin in the ember bed, Figure 3.28. Position the log over air hole in ember bed.
4. Install the right log by mating the notch on the bottom of the log with the raised notch on the ember bed, Figure 3.28. Position the log over air hole in ember bed.
5. Install top log by mating hole on bottom of log with locating pin on top right side of rear log, Figure 3.29. Position log so it is angled down toward the area where the front two logs meet.



Figure 3.28 - Front Logs

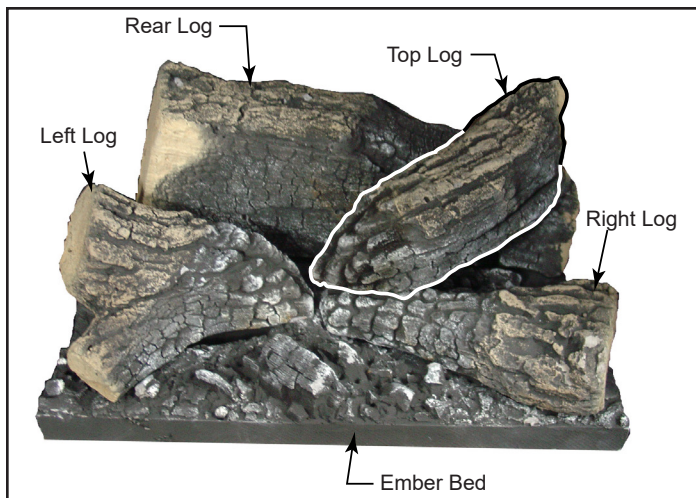


Figure 3.29 - Completed Installation

E. Thermostat Connection (optional):

Use only a thermostat rated for 500 - 750 millivolts.

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

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

1. Install the wall thermostat in the desired location and run the wires to the stove location. Terminate these leads with 1/4" female connectors.
2. Connect the thermostat or wall switch wires to the valve, Figure 3.30.

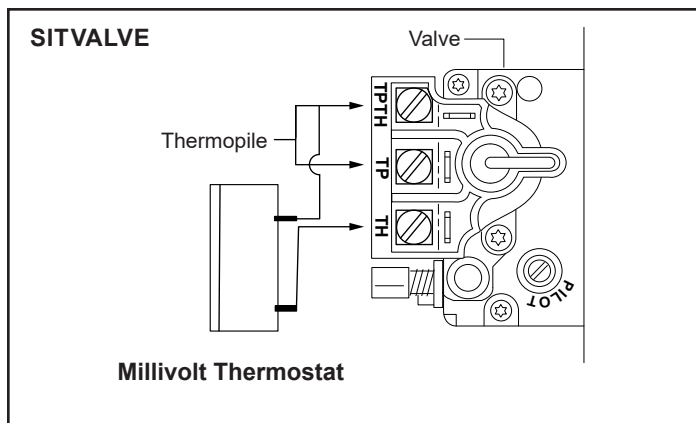


Figure 3.30 - Install wiring to Thermostat before connecting to valve.

⚠ WARNING

Electrical connections should only be performed by a qualified, licensed electrician. Main power must be off when connecting to main electrical power supply or performing service. All wiring shall be in compliance with all local, city and state codes. The appliance, when installed, must be electrically grounded in accordance with local codes or in the absence of local codes, with the National Electrical Code ANSI/NFPA 70 (latest edition) and Canadian Electrical Code, CSA C22.1.

⚠ CAUTION

Label all wires before disconnecting when servicing controls. Wiring errors can cause improper and dangerous operation.

⚠ WARNING

Do not connect wall switch to 110 V circuit.

⚠ CAUTION

Electrical connections should only be performed by a qualified, licensed electrician. Main power supply must be turned off before connecting fans to the main electrical power supply or performing service.



WARNING

Electrical Grounding Instructions: This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle.

Connect the Gas Supply Line

Check the Rating Plate attached by a steel cable to the firebox, to confirm that you have the appropriate firebox for the type of fuel to be used. The Stardance may be converted from one gas to another using the appropriate Fuel Conversion Kit listed in this manual under Replacement Parts.

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

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

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

Light the pilot according to the directions in the Operation section of this manual.

Burner Information

The appliance must only use the gas specified on the rating plate, unless converted using a Vermont Castings Fuel Conversion Kit. To convert from Natural Gas to LP use Kit #20012729 or #20012900. To convert from LP to Natural Gas use Kit #20012899 or #20012902.

Conversion instructions are provided with each kit and in this manual.



CAUTION

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

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

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

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

In order to connect Natural Gas, use a fitting with 1/2" NPT on the valve side and 1/2" natural gas supply line with an input of 38,000 BTUs at a manifold pressure of 3.5" between minimum inlet supply of 5.5" w.c. and maximum of 10.0" w.c.

In order to connect Propane, use a fitting with 1/2" NPT on the valve side and 1/2" propane gas supply line with an input of 36,000 BTUs at a manifold pressure of 10.0" between a minimum inlet supply of 11.0" w.c. and maximum of 13.0" w.c.

THIS APPLIANCE SHOULD BE CONNECTED TO THE GAS SUPPLY ONLY BY A QUALIFIED GAS SERVICE TECHNICIAN. FOLLOW ALL LOCAL CODES.

THERE MUST BE A GAS SHUT-OFF BETWEEN THE STOVE AND THE SUPPLY.

F. SDDVT-IFT Wiring Requirements

Intellifire™ Touch Ignition System Wiring

- Wire the appliance junction box to 110-120 VAC for proper operation of the appliance.

WARNING! Risk of Shock or Explosion! DO NOT wire IFT controlled appliance junction box to a switched circuit. Incorrect wiring will override IFT safety lockout.

- Refer to Figure 3.31, IFT Wiring Diagram.
- This appliance is equipped with an Intellifire™ Touch control valve which operates on a 6 volt/1.5 AMP system.
- Plug the 6 volt transformer plug into the appliance junction box to supply power to the unit OR install 4 AA cell batteries (not included) into the battery pack before use.

NOTICE: Batteries should only be used as a power source in the event of an emergency power outage. Batteries should not be used as a primary long-term power source. Battery polarity must be correct when installing batteries. When using batteries as a power source, the 6-volt transformer must be unplugged from the receptacle.

Do not store batteries in the battery pack when the appliance is powered by the 6 volt transformer connected to permanent electrical service.

Accessories Requirements

- This appliance ships standard with a remote control. Wiring for optional Hearth & Home Technologies approved accessories should be done now to avoid reconstruction. Follow instructions that come with those accessories.

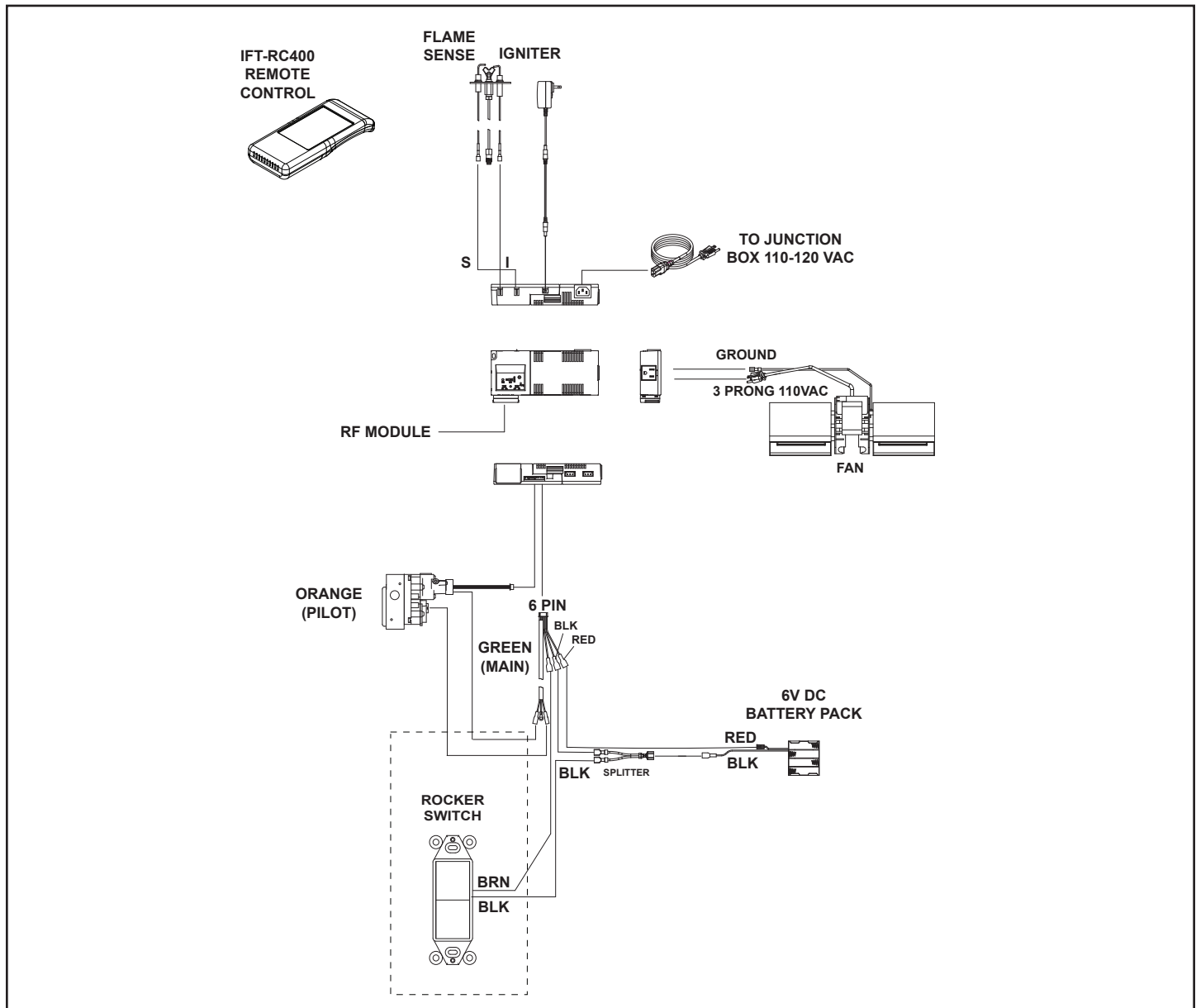


Figure 3.31 - SDDVT-IFT Wiring Diagram

G. Fuel Conversion

- This appliance ships with a NG to LP Conversions Kit with installation instructions included.
- Make sure the appliance is compatible with available gas types.
- Conversions must be made by a qualified service technician using Hearth & Home Technologies specified and approved parts.

H. Install the Safety Barrier



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

** See parts list for model number.*

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

1. Remove screen from packaging.
2. Place the two bottom hooks over the bottom edge of the stove opening, Figure 3.32.
3. Press the screen against the stove snapping the two spring fingers until the screen fits securely in place.

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

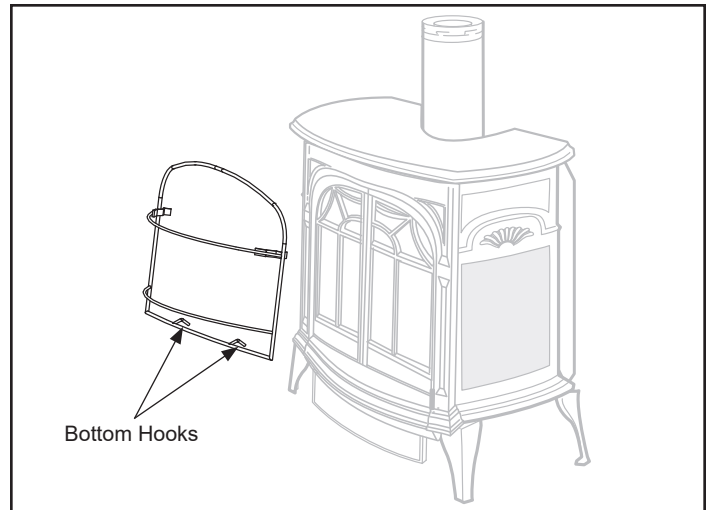


Figure 3.32 - Install safety barrier screen.



WARNING

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

I. Install the Mesh and Grille

Place the mesh and grille on the top of the Radiance stove to complete assembly.



DANGER



**HOT GLASS WILL
CAUSE BURNS.**

**DO NOT TOUCH GLASS
UNTIL COOLED.**

**NEVER ALLOW CHILDREN
TO TOUCH GLASS.**

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed.

4 Operating Instructions

A. Operation

The Stardance is operated with the front plate in place with the doors open or closed. To open the front doors, pull forward to separate the magnetic catch. Ensure the safety barrier screen is in place during operation.

B. Lighting Instructions

Read these instructions carefully and familiarize yourself with the lighting instructions. *Section F, "Lighting and Operating Instructions"*. Locate the pilot assembly, Figure 4.1. Follow the lighting instructions in this manual exactly.

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

C. Pilot and Burner Inspection

Each time you light your heater check that the pilot flame and burner flame patterns are as shown in Figure 4.2. If flame patterns are incorrect, turn the heater off. Contact your dealer or a qualified gas technician for assistance. Do not operate the heater until the pilot flame is correct.

Follow regular maintenance procedures as described in the Cleaning and Maintenance section of this manual.

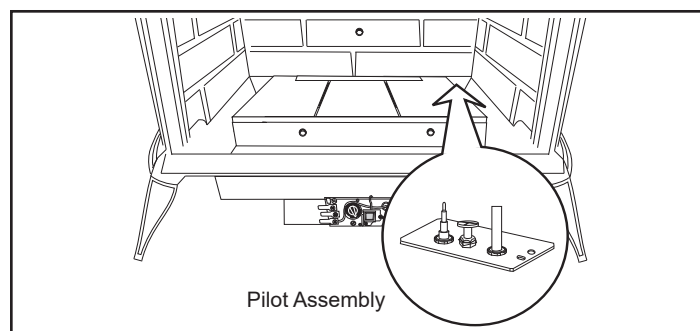


Figure 4.1 - Pilot Assembly location.

D. Flame Characteristics

It is important to periodically perform a visual check of the pilot and the burner flames. Compare them to Figure 4.2. If any of the flames appear abnormal, call a service person.

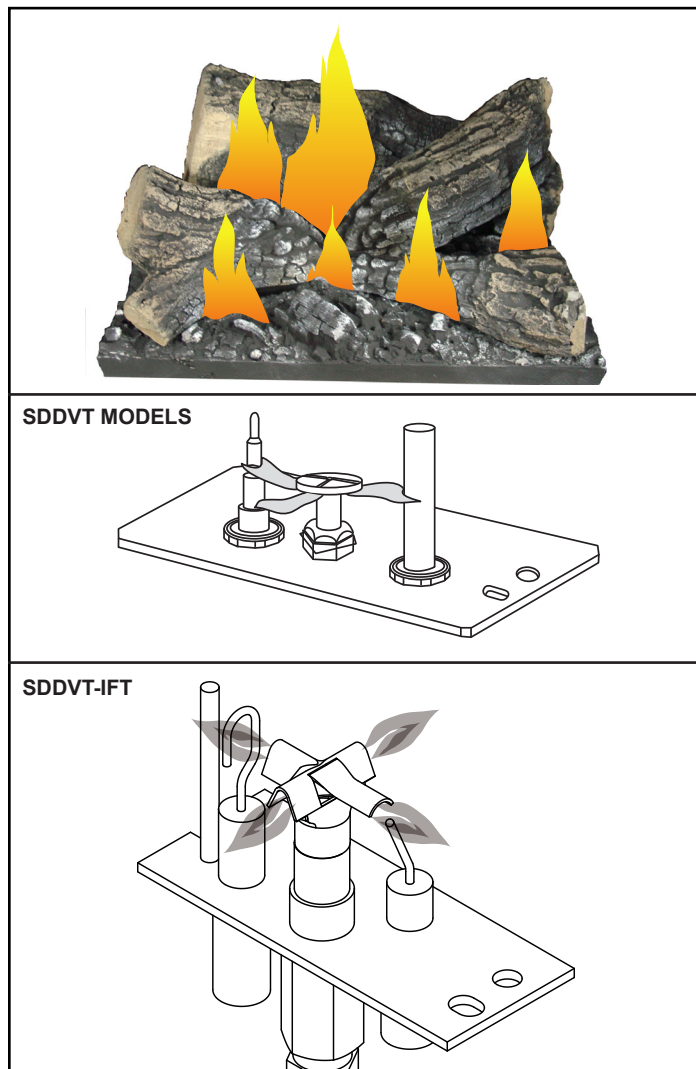


Figure 4.2 - Correct pilot and burner flame appearance.

E. Flame & Temperature Adjustment

For SDDVT models which are equipped with HI/LO valves, flame adjustment is accomplished by rotating the HI/LO adjustment knob located near the center of the gas control valve, Figure 4.3.

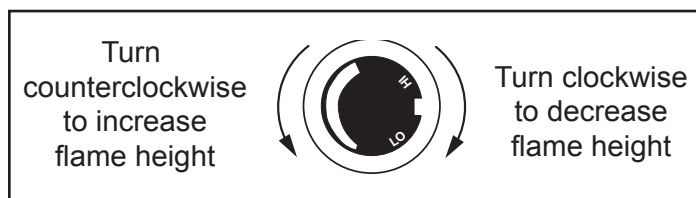


Figure 4.3 - Flame adjustment knob for SIT valve.

F. Lighting and Operating Instructions

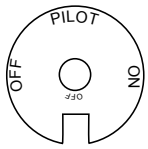
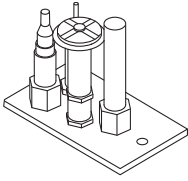
LIGHTING AND OPERATING INSTRUCTIONS FOR SDDVT MODELS (MILLIVOLT ONLY)

FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This heater has a pilot which must be lit manually. When lighting the pilot follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the heater area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS**
- Do not try to light any stove
 - Do not touch any electric switch
 - Do not use any phone in your building
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the Fire Department
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Applying force or any attempted repair may result in a fire or explosion.
- D. Do not use this stove if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.

Lighting Instructions

1. **STOP!** Read the safety information above.
 2. Turn off all electrical power to the stove.
 3. Turn the On/Off switch to "OFF" position, set the remote to OFF or set thermostat to lowest level.
 4. Open control access panel.
 5. Push in gas control knob slightly and turn clockwise  to "OFF".
- 
- SIT NOVA**
6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you do not smell gas, go to the next step.
 7. Remove glass door before lighting pilot. (See Glass Frame Removal section).
 8. Visibly locate pilot by the main burner.
 9. Turn knob on gas control counter-clockwise  to "PILOT".
 10. Push the control knob all the way in and hold. Immediately light the pilot by repeatedly depressing the piezo spark ignitor until a flame appears. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.
- 
- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - If after several tries, the pilot will not stay lit, turn the gas control knob to "OFF" and call your service technician or gas supplier.
11. Replace glass door.
 12. Turn gas control knob to "ON" position.
 13. Turn the On/Off switch to "ON" position or set thermostat to desired setting.
 14. Turn on all electrical power to the stove.

To Turn Off Gas To Heater

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

G. Troubleshooting

Gas Control System (SDDVT models)

SIT NOVA 820 Millivolt Valve

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

Symptom	Possible Causes	Corrective Action
Spark Ignitor will not light	1. Defective or misaligned electrode at pilot	1. Using a match, light pilot. If pilot lights, turn off pilot and push the red button again. If pilot will not light - check gap at electrode and pilot-should be 1/8” to have a strong spark.
	2. Defective ignitor (push button)	2. With the control knob in the pilot position, push the control knob all the way and hold. Check for spark at electrode and pilot. If no spark to pilot, and electrode wire is properly connected, replace the battery in the ignitor module and try again. Refer to Maintenance Section. If the problem still exists, replace the ignitor module box.
Pilot will not stay lit after carefully following lighting instructions	1. Defective pilot generator (thermocouple), remote wall switch	1. Check pilot flame. Must impinge on thermocouple/thermopile. NOTE: This pilot burner assembly utilizes both a thermocouple and a thermopile. The thermocouple operates the main valve operation (On and Off). Clean and or adjust pilot for maximum flame impingement on thermopile and thermocouple.
	2. Defective automatic valve	2. Turn valve knob to “Pilot”. Maintain flow to pilot; millivolt meter should read greater than 10mV. If the reading is okay and the pilot does not stay on, replace the gas valve. NOTE: An interrupter block (not supplied) must be used to conduct this test.
Pilot burning, no gas to main burner	1. Wall switch or wires defective	1. Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch, if burner comes on, replace defective wall switch.. If okay, jumper wires across wall switch wires at valve, if burner comes on, wires are faulty or connections are bad.
	2. Thermopile may not be generating sufficient millivoltage	• Be sure wire connections form thermopile at gas valve terminals are tight and thermopile is fully inserted into pilot bracket. • One of the wall switch wires may be grounded. Remove wall switch wires form valve terminals if pilot now stays lit, trace wall switch wiring for ground. May be grounded to stove or gas supply. • Check thermopile with millivolt meter. Take reading at thermopile terminals of gas valve. Should read 250-300 millivolts (minimum 150) while holding valve knob depressed in pilot position and wall switch “Off”. Replace faulty thermopile if reading is below specified minimum.
	3. Plugged burner orifice	3. Check burner orifices for debris and remove.
	4. Defective automatic valve operator	4. Turn valve knob to “On”, place wall switch to “On” millivolt meter should read greater than 150mV. If the reading is okay and the burner does not come on, replace the gas valve.
Frequent pilot outage problem	1. Pilot flame may be too low or blowing (high) causing the pilot safety to drop out	1. Clean and/or adjust pilot flame for maximum flame impingement on thermopile and thermocouple.
	2. Possible blockage of the vent terminal	2. Check the vent terminal for blockage (recycling the flue gases)

H. Read Before Lighting

FOR YOUR SAFETY READ BEFORE LIGHTING



WARNING

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

- A.** This appliance is equipped with an ignition device which automatically lights the pilot. Refer to the instructions.
- B.** BEFORE OPERATING smell all 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 attempt 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 finger to push in the master switch. Never use tools. If the switch will not function by hand, do not 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 of it 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 that has been under water.

I. Lighting Instructions (IFT)

FOR YOUR SAFETY READ BEFORE LIGHTING



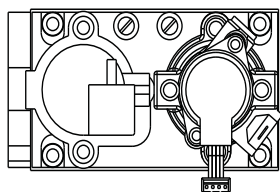
WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This appliance is equipped with an intermittent pilot ignition (IPI) device which automatically lights the burner. **DO NOT** try to light the burner by hand.
- B. **BEFORE LIGHTING**, smell all 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, **DO NOT** 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 (IPI)

1. This appliance is equipped with an ignition device which automatically lights the burner. **DO NOT** try to light the burner by hand.
2. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the Safety Information located on the top of this label. If you do not smell gas, go to next step.
3. To light the burner:
Equipped with wall switch: Turn ON/OFF switch to ON.
Equipped with remote or wall control: Press ON or FLAME button.
Equipped with thermostat: Set temperature to desired setting.
4. If the appliance does not light after three tries, call your service technician or gas supplier.

**GAS
VALVE**



TO TURN OFF GAS TO APPLIANCE

1. Equipped with wall switch: Turn ON/OFF switch to OFF.
Equipped with remote or wall control: Press OFF button.
Equipped with thermostat: Set temperature to lowest setting.
2. Service technician should turn off electric power to the control when performing service.



DANGER



**HOT GLASS WILL CAUSE BURNS.
DO NOT TOUCH GLASS UNTIL COOLED.
NEVER ALLOW CHILDREN TO TOUCH GLASS.**

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

WARNING:

DO NOT CONNECT LINE VOLTAGE (110/120 VAC OR 220/240 VAC) TO THE CONTROL VALVE.

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.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.



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

Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

CAUTION:

Hot while in operation. **DO NOT** touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.

DO NOT operate the appliance with fixed glass assembly removed, cracked or broken. Replacement of the fixed glass assembly should be done by a licensed or qualified service person.

NOT FOR USE WITH SOLID FUEL

For use with natural gas and propane. A conversion kit, as supplied by the manufacturer, shall be used to convert this appliance to the alternate fuel.

Also Certified for Installation in a Bedroom or a Bedsitting Room.

This appliance must be installed in accordance with local codes, if any; if none, follow the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, or the *National Gas and Propane Installation code, CSA B149.1*.

**For additional information on operating your
Hearth & Home Technologies fireplace, please
refer to www.hearthnhome.com.**

593-913J

J. Operation During A Power Outage - IntelliFire™ Touch

The IntelliFire™ Touch intermittent pilot ignition system comes with a battery backup system that enables the system to operate in a power outage. The system offers seamless transition from household AC power to battery backup. A factory-installed battery pack is located in the control cavity of the appliance. See Figure 3.5. Battery longevity and performance will be affected by long term exposure to the service temperatures of this appliance.

NOTICE: Batteries should only be used as a power source in the event of an emergency power outage. Batteries should not be used as a primary long-term power source.

To Operate Fireplace Using Battery Power (DC):

1. Access the control cavity of the appliance. The magnetic vanity plate may need to be removed.
2. Locate the battery tray (located on the back of the ECM bracket) and insert four AA cell batteries, Figure 4.4. Battery polarity must be correct or module damage will occur, Figure 4.5. A complete wiring diagram is included in the Electrical section of the appliance Installation Manual.
3. Turn the appliance on according to the instructions below for the appropriate type of control:

Standard Wall Switch:

- Toggle the switch as you would under normal circumstances.

Wireless Remote:

- Remote receiver is integrated into the ignition module
- Use the remote to turn the appliance on.
- To preserve battery life, do not use the HI/LO flame or THERMOSTAT options.

Ignition Module:

- Locate the ignition module in the control cavity.
- Slide the ON/REMOTE/OFF switch to the ON position

NOTICE: Some functionality will be lost when using battery backup including remote control, fan, lights, or any other auxiliary functions that require household 110-120 VAC power

To Return to Operation Using Electrical (AC) Power
Standard Wall Switch or Factory-Installed ON/OFF

Switch:

- Toggle the switch to OFF and remove the batteries from the battery tray. Replace magnetic vanity plate on appliance.

Wireless Remote:

- Slide the ON / REMOTE / OFF switch to the REMOTE position. Remove the batteries from the battery tray. Replace decorative front on appliance.

Ignition Module:

- Slide the ON / REMOTE / OFF switch to the REMOTE position.
- Remove the batteries from the battery tray. Replace decorative front on appliance.

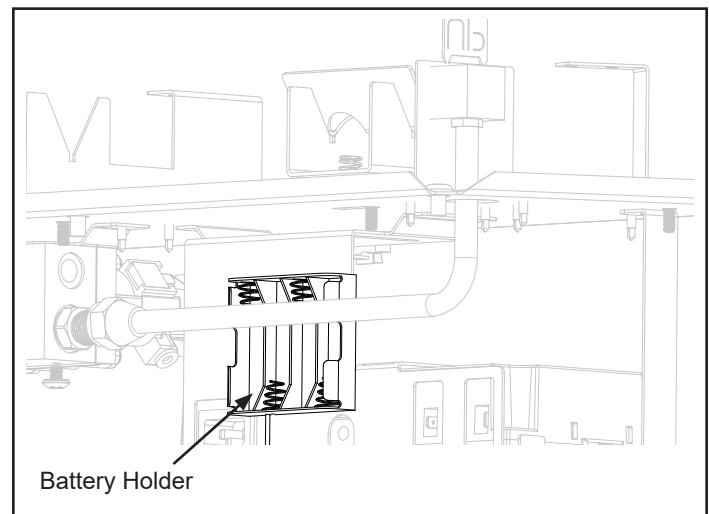


Figure 4.4 - Battery Holder

K. Detailed Component Operating Instructions - IntelliFire™ Touch

IFT-ECM Detailed Operating Instruction

This model is shipped from the factory equipped with the IFT-RC400 remote.

1. The Electronic Control Module (IFT-ECM) has a three-position ON/OFF/REMOTE selector switch that must be set for proper operation, Figure 4.5. When changing switch positions, it is important to pause in each position for 1-2 seconds.

OFF Position:

The appliance will not respond to any commands from a wired wall switch or IFT-RC400 remote controls. The unit should be in the OFF position during service, fuel conversion, and to reset the IFT-ECM in the event the system goes into a LOCK-OUT mode as the result of a system error. When switched to the OFF position while the appliance is operating, the system will shut down.

ON Position:

The appliance will ignite and run continuously at the HI flame setting. No adjustment in flame height is possible.

Remote Position:

The remote position allows operation of the appliance from a wired wall switch or IFT-RC400 remote controls. The IFT-ECM switch must be in this position to pair the IFT-ECM with the IFT-ACM (if installed), and/or IFT-RC400 remote controls. See the IFT-RC400 installation manual for detailed instructions on pairing the IFT-ECM with the remote controls.

After successfully pairing a IFT-RC400, all installed accessories can be controlled by the IFT-RC400 (see IFT-RC400 user manual). The IFT-ECM has a safety feature that will automatically shut down the fireplace after 9 hours of continuous operation without receiving a command from the IFT-RC400.

The IFT-ECM has a safety feature that will automatically shut down the fireplace after 9 hours of continuous operation in the ON position, except when operated in active thermostat mode.

2. If multiple control options are installed, the IFT-ECM will respond to the last command from the wired wall switch or IFT-RC400. The wired wall switch is NOT available if a Power Vent is used.

3. The Pilot button on the IFT-ECM activates the Cold Climate function of the fireplace. This function lights the pilot flame ONLY to provide enough heat in the firebox to reduce condensation in cool, high humidity ambient conditions. To activate the Cold Climate press and hold the Pilot button for one second and release. The IFT-ECM will flash two green LED blinks, beep twice and light and rectify the pilot flame when pressed to activate. To turn off Cold Climate, press and hold the Pilot button for one second and release. The IFT-ECM will flash one green LED blink, beep once and shut down the pilot flame. If remote controls are paired with the IFT-ECM, this feature can also be activated with the IFT-RC400.

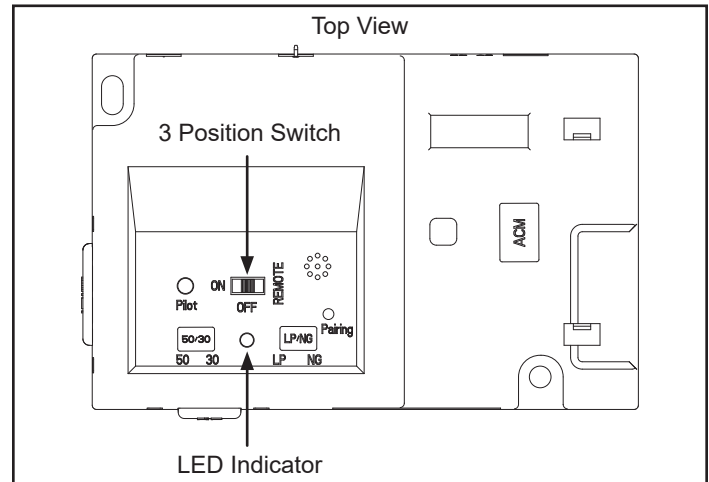


Figure 4.5 - IFT-ECM



DANGER



Risk of Explosion

DO NOT cycle the ON/OFF/REM selector switch more than one time within a five minute period. Gas may accumulate in firebox. Call a qualified service technician.

4. An IFT-ECM reset is required if the module is in a lock-out condition. When this occurs, the appliance is shut down and the IFT-ECM status indicator LED will be blinking a RED/GREEN error code along with a one-time audible double- beep. If the IFT-ECM is in a lock-out condition, refer to the troubleshooting chart to interpret the error code and take corrective action as required. To reset the IFT-ECM after a lock-out error:

CAUTION! Risk of burns! Appliance surfaces are hot when operating and during cool down. Use care and wear gloves when opening the front and accessing components inside the appliance.

- Be aware the appliance may be HOT, use care in accessing the IFT-ECM.
- Set the IFT-ECM 3-position selector switch to OFF position.
- Wait five (5) minutes to allow possible accumulated gas to clear.
- Set the IFT-ECM 3-position selector switch to ON or REMOTE position. Module will beep once and flash a three GREEN LED code on successful startup.
- If placed in ON position, the appliance will ignite normally if the error condition was corrected.
- If placed in REMOTE position, use the paired IFT-RC400 or wired wall switch to start the appliance; appliance will ignite normally if the error condition was corrected.
- If the IFT-ECM re-enters the lock-out condition after these steps, call your dealer for service.

IntelliFire™ Touch Ignition System

NOTICE: Batteries should not be placed in the battery pack while using the transformer. Remove batteries before using the transformer, and unplug the transformer before installing the batteries. Battery polarity must be correct or module damage will occur.

Appliance ON/OFF:

This model is supplied with a fully functional remote control. This remote controls:

- ON/OFF Functions
- Flame height adjustments
- Thermostat
- Cold Climate Feature
- Fan Speed

Please refer to the instructions included with the remote control for more detailed operating instructions.

L. Frequently Asked Questions - IntelliFire™ Touch Controls (IFT-RC400)

Symptom	Possible Cause	Corrective Action
The appliance does not respond to commands from the remote control display does not light up when screen is touched.	Batteries are depleted.	Verify batteries are new.
	Batteries are incorrectly oriented.	Verify batteries are installed in correct orientation as shown on batteries receptacle.
The display on remote lights up when screen is touched but it does not respond to commands.	Touchscreen has lost calibration.	Touchscreen needs to be re-calibrated. Call dealer to have screen re-calibrated.
	Child Lock is ON.	Check child lock icon located at the top of the remote display. If ON, it will show as a 'locked' symbol. To unlock, remove battery compartment door, locate child lock switch and move to 'unlock' position. Verify child lock icon on screen is now displayed in 'unlock' position.
The remote displays the following message on-screen: No dealer info available	Dealer information not programmed into remote.	Remote will still provide all available functions, and appliance is fully available for use. Call dealer to have them program.
The remote displays the following message on-screen: Call "Dealer Name & Number" to schedule maintenance.	300 hours of use. Appliance is still fully functional.	The appliance has been burning for 300 hours and is due for a regular maintenance. Call dealer to have them perform maintenance.
The room temperature displayed on the remote is either slow or quick to respond while operating in thermostat mode.	Remote is placed at a very short distance or too far away from the appliance.	Try to keep the remote close to the appliance but not directly in front of it. The remote acts as the thermostat.
	Remote is placed in the path of an air draft or vent.	Move the remote away from the direct path of air flow. The remote acts as the thermostat.
	Flame Modulation	The control system is designed to automatically adjust the flame intensity based on the difference between the desired room temperature, and actual temperature. In thermostat mode, the hearth appliance will start in HI flame, but as the actual temperature approaches the desired set temperature on the remote, the flame intensity will automatically decrease. Automatic flame modulation will result in more control of the temperature, and will cause the appliance to cycle OFF/ON less.
The appliance turns OFF the flame after extended periods of operation	9 hour safety shutdown timer	This is normal behavior. The appliance has a safety timer that will automatically turn OFF the flame after nine hours of uninterrupted operation.
The remote displays the following message on-screen: Fan will turn on within 3 minutes	Functioning as intended.	The appliance has a three minute delay timer before the fan is turned ON. This allows the air surrounding the appliance to be heated before being pushed into the room.
The remote displays the following message on-screen: "Replace remote batteries."	Low batteries in remote.	Install new batteries in the remote.
The remote is displaying an incorrect brand.	Remote was programmed incorrectly.	Call dealer to have them program the remote with correct branding. Remote is still fully functional and the appliance is unaffected.
After turning flame ON using remote, the flame does not turn ON immediately and instead a two minute timer is displayed.	Power vent is installed on the appliance.	This is expected behavior and the two minute timer is called a pre-purge timer. The flame will turn ON at the expiration of the timer.
The remote displays the following message on-screen: "Remote Control Communication Error."	No power to appliance.	Verify home circuit breaker is on and master reset is on (if equipped).
	Power outage.	Install new batteries in battery backup.
The remote displays the following message on -screen: Sorry your appliance did not start. Try again by pressing Flame On.	No power to appliance. No gas to appliance. Accumulation of air in gas line from extended period of appliance inactivity. Gas control system failure.	Verify that appliance has power and gas. Verify that the appliance accepts flame ON commands with an audible beep, and successfully turns flame on within 90 seconds. If this failure persists, contact dealer for service.

M. 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 technician 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. Contact your dealer to arrange a service call by a qualified service technician.

IntelliFire™ Touch

Error Codes

ECM LED Error Codes	Description
3 Red: 1 Green	IFT-RC400 error message: 'Appliance Safely Disabled', pilot sparks for 90 sec, no flame-rectification.
2 Red: 1 Green	IFT-RC400 display: 'Error Pilot Flame', pilot valve solenoid not detected.
2 Red: 2 Green	Sparkling feedback signal error, spark coil failure.
5 Red: 1 Green	IFT-RC400 display: 'Error Power Vent' (if installed).

See Troubleshooting matrix for more detail on Lock-out Error Codes, Possible Causes and Corrective Actions.

Troubleshooting:

Symptom	Possible Cause	Corrective Action
Pilot won't light, module clicks but no spark 90 sec, 3 Red/1 Green Lock out.	Incorrect wiring.	Verify 'S' (White) sense wire and 'I' (orange) ignitor wire are connected to correct terminals on IFT-ECM.
	Loose connections or electrical shorts in wiring.	Verify no loose connections or electrical shorts in wiring from module to pilot assembly. Verify wire insulation is not damaged. Verify wires are not grounding out to chassis, pilot burner, or any other metal object. Replace any damaged wires.
	Ignitor gap is too large.	Verify spark gap is approximately 0.095" (2.41 mm) to 0.135" (3.43 mm).
Pilot won't light, there is no noise or spark.	No AC power, AC/DC adaptor faulty, backup batteries (if being used) depleted, IFT-ECM slider switch in OFF position.	Verify IFT-ECM slider switch is in ON or REM position. Verify AC power available to junction box. Verify AC/DC adaptor is plugged into junction box and ECM. Verify AC/DC adaptor output voltage is between 5.7-6.3 Vdc. If battery pack is used, check battery pack voltage is >4.2 V (if not, replace batteries).
	Shorted or loose connection in system wiring or wiring harness.	Verify system wiring configuration. Remove and reinstall wiring harness that plugs into module. Check continuity of wires in valve wiring harness. Replace any damaged components.
	Poor or no system ground.	Verify black ground wire in valve harness is connected to metal chassis of fireplace.
Pilot won't light, there is no noise or spark, 2 Red/1 Green Lockout.	Pilot solenoid not detected.	Check if valve harness orange wire is connected to pilot solenoid valve. Check pilot solenoid resistance, nominal is 40 ohms. If open or shorted, replace valve. Check valve harness wire continuity, if open replace 6-pin harness.
Pilot won't light, there is no noise or spark, 2 Red/2 Green Lockout.	Spark coil failure.	Replace ECM.

M. Troubleshooting - (Continued)

Symptom	Possible Cause	Corrective Action
Pilot sparks but does not light, after 90 sec, 3 Red/1 Green Lockout	No gas supply.	Verify incoming gas line ball valve is 'Open'. Verify inlet pressure is within requirement for gas type used. Contact gas supplier.
	ECM has poor ground.	Verify wiring, check valve harness black wire is securely grounded to metal chassis.
	Gas valve defective.	Check pilot valve solenoid kick and hold voltages during ignition cycle. Kick V should be >1 V, hold V minimum 0.26 V. If voltages are OK, replace gas valve.
Pilot lights but main burner does not light. Pilot continues to spark for 90 sec then goes into 3 Red/1 Green Lockout.	No flame detected. Flame rectification issue.	Check if white sense lead is securely connected to 'S' terminal of IFT-ECM. Check resistance of sense lead between sense rod tip and connector to IFT-ECM, should be less than 1 ohm - if not, replace pilot assembly. Check system ground, ensure black valve harness wire is securely attached to metal chassis. Check wiring for damage. With system OFF, check resistance between tip of sense rod and pilot hood, should be resistance (>1 M-ohm).
	No flame detected or sense rod contamination.	With glass assembly installed, verify pilot flame is engulfing flame sense rod on pilot assembly. Verify inlet gas pressure is correct for gas type. Polish flame sense rod with fine steel wool to remove any contaminants that may have accumulated.
Pilot lights and rectifies, but main burner does not light.	Main valve solenoid.	Check if green wire in valve harness is connected to green main valve solenoid. Check main valve solenoid resistance, nominal is 60 ohms. If open or shorted, replace valve. Verify valve inlet pressure is correct for gas type.
Pilot and main do not light, ECM goes into 5 Red/1 Green Lockout.	Power Vent (PV) Failure.	Power Vent blower defective - check wiring to IFT-ACM, check if blower is working. Check if PV pressure switch is connected to brown and black wire in 6-pin valve wire harness. Check if pressure switch is closed (shorted) when PV blower is running. Refer to PV troubleshooting instructions.
Appliance lights and runs for a few minutes then shuts down and/or appliance cycle ON and OFF with less than 90 sec of ON time.	Shorted or loose connection in flame detection circuit.	Check if white sense lead is securely connected to 'S' terminal of IFT-ECM. Check resistance of sense lead between sense rod tip and connector to IFT-ECM, should be less than 1 ohm - if not, replace pilot assembly. Check system ground, ensure black valve harness wire is securely attached to metal chassis. Check wiring for damage. With system OFF, check resistance between tip of sense rod and pilot hood, should be resistance (>1 M-ohm).
	Poor flame rectification or contaminated sense rod.	With glass assembly installed, verify pilot flame is engulfing flame sense rod on pilot assembly. Verify inlet gas pressure is correct for gas type. Polish flame sense rod with fine steel wool to remove any contaminants that may have accumulated. Verify no soot deposits are in sense rod to pilot hood gap.
	Logs are set up wrong.	Remove and re-install logs per the log placement instructions.
	Damaged pilot assembly.	Verify the pilot assembly ceramic insulator around the flame sensing rod is not cracked, damaged or loose. Check resistance between tip of sense rod and IFT-ECM connector, should be less than 1 ohm. Replace pilot assembly if damage is detected.

N. Burner, Pilot & Control Compartment



WARNING

Turn off gas before servicing stove. It is recommended that a qualified service technician perform these check-ups at the beginning of each heating season

Keep the control compartment, stones and burner areas surrounding the stones clean by vacuuming or brushing at least twice a year. Make sure the burner porting, pilot air opening and burner air opening are free of obstructions at all times.

Pilot Flame

The flames from the pilot should be visually checked as soon as the heater is installed and periodically during normal operation. The pilot flame must always be present when the stove is in operation, Figure 4.6. The pilot flame has three distinct flames, one engulfing the sensor, one engulfing the thermopile, and the other reaching to the main burner.

Burner

Inspect area around the injector. Remove any lint or foreign material with a brush or vacuum.

Burner Flame

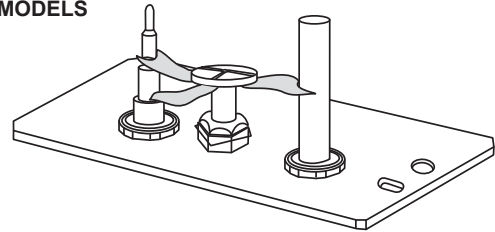
The flames from the burner should be visually checked as soon as the heater is installed and periodically during normal operation. In normal operation, at full rate, and after operating for about 15 to 30 minutes, the flame should be yellow.

If the flame is blue and candle-like in appearance, adjust glass or add more glass over ports.

NOTE: The type of installation, vent system configuration, and wind effects may cause the flame patterns to vary.



RADVT MODELS



RADVT-IFT

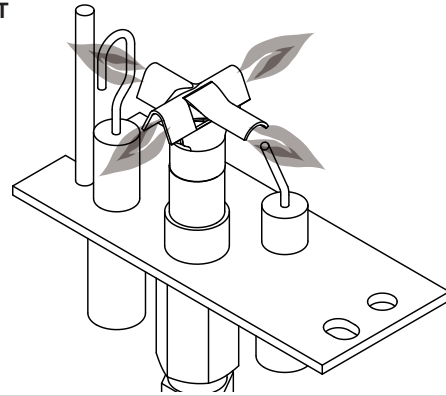


Figure 4.6 - Correct pilot and burner flame appearance.

5 Cleaning and Maintenance

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

A. Annual System Inspection

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

B. Logset & Burner / Cleaning and Inspection

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

1. Turn the burner OFF and let the heater cool completely before cleaning.
2. Remove the safety barrier and lift the stove front up and then swing the bottom out to disengage it from the heater shell.
3. Carefully remove the glass and frame assembly and place it out of the way on a flat, padded surface such as a counter protected by a towel.
4. Carefully inspect the Logs for damage. Contact your local dealer if any damage is evident.
5. Use a soft bristled brush to sweep dust or debris from the Logs, Pilot and Burner. Use care as the logs are fragile and susceptible to damage.
6. Replace the glass panel and frame assembly.
7. Replace the stove front and safety barrier.

C. Care of Cast Iron

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

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



CAUTION

Turn the pilot off before painting. Allow the heater to cool completely before painting.

D. Glass Cleaning and Replacement

It will be necessary to clean the glass periodically. During start-up, condensation, which is normal, forms on the inside of the glass and causes lint, dust and other airborne particles to cling to the glass surface. Also initial paint curing may deposit a slight film on the glass. It is therefore recommended that the glass be cleaned two or three times with a non-ammonia household cleaner and warm water (we recommend gas stove glass cleaner). Allow the glass to cool completely before attempting to clean. To access the glass, remove the front and glass frame, Figures 5.1 and 5.2. After that the glass should be cleaned two or three times during each heating season depending on the circumstances present.

NOTE: Clean glass after first two weeks of operation.

Glass Replacement

Replace glass only with HHT approved parts. Refer to Section 7 "Service Parts List" for correct glass. Remove the front, glass frame and glass panel, Figures 5.1 & 5.2. Use a razor blade to separate the glass and gasket from the frame.

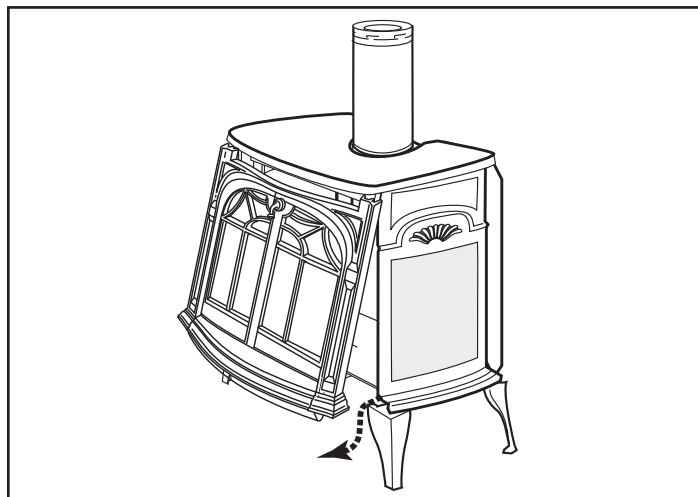


Figure 5.1 - Remove the stove front.

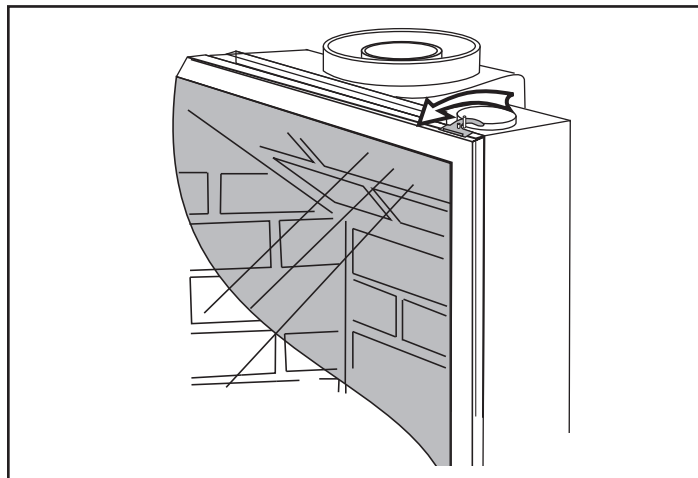


Figure 5.2 - Release the latches to remove the glass frame.


DANGER



**HOT GLASS WILL
CAUSE BURNS.**

**DO NOT TOUCH GLASS
UNTIL COOLED.**

**NEVER ALLOW CHILDREN
TO TOUCH GLASS.**

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed.

E. Gasket Replacement

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

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

1. Remove the front, glass frame and glass panel, Figures 5.1 & 5.2. To remove the old gasket, use a razor blade to separate the glass and gasket from the frame, and to clean the glass of any remaining cement or bits of gasket. Use a cold chisel if necessary.
2. Determine the correct length of gasket by laying it out around the edge of the glass. Allow an extra 1 - 2" (25-50mm). Mark the spot to be cut. Use a utility knife.
3. Starting on a long edge, remove about 6" of the protective paper strip and apply the flat adhesive face of the gasket around the outside-facing edge of the panel. Continue around the panel, applying about 6" at a time and being careful to not stretch the material. Do not overlap the gasket ends, Figure 5.3.
4. Apply a thin bead of high temperature silicone rubber sealant along the inside corner of the glass frame, all around the perimeter. Place the flat gasketed side of the glass panel back into the steel frame. Pinch the rounded inside-facing gasket material to bulk it up.
5. Replace the glass frame and front panel as previously described.

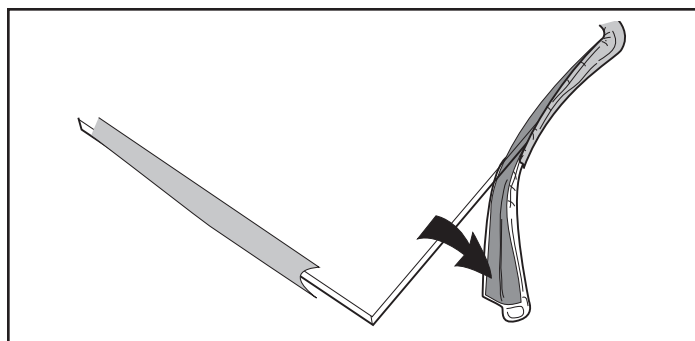


Figure 5.3 - Wrap the gasket material around the outside edge of the glass.

F. Inspect the Vent System Annually

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

G. Check the Gas Flame Regularly

To ensure that the stove is operating properly, check the flames periodically to confirm they match Figure 5.4. The flames will be blue during the first 15-20 minutes of operation, and will gradually turn to yellow after that.

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

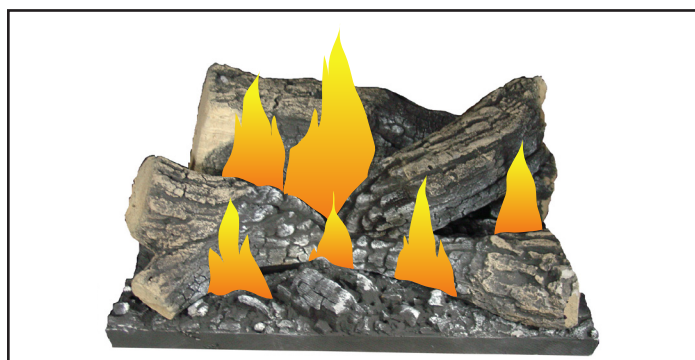


Figure 5.4 - Proper flame appearance

6

SDDVT Models (Millivolt Only)

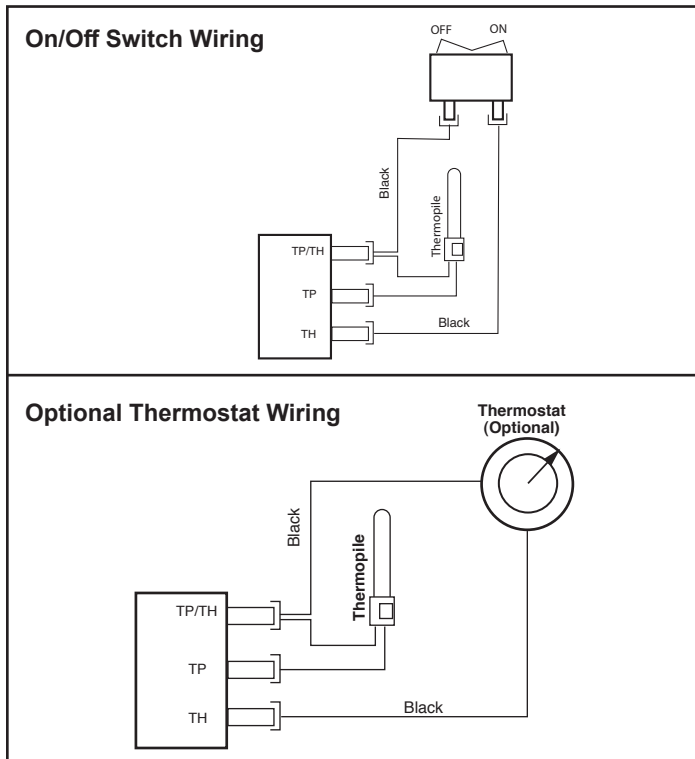


Figure 6.1 - On/off switch and optional thermostat circuit.

NOTE: If any of the original wire, as supplied with the appliance, must be replaced, it must be replaced with type SF-2, 200°C wire or its equivalent.

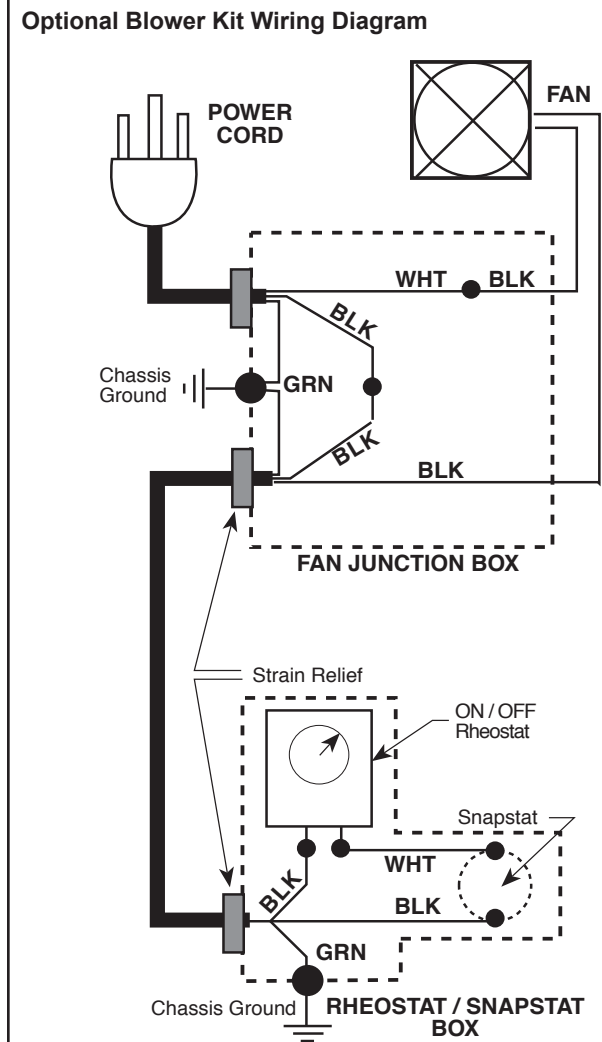


Figure 6.2 - Fan circuit.

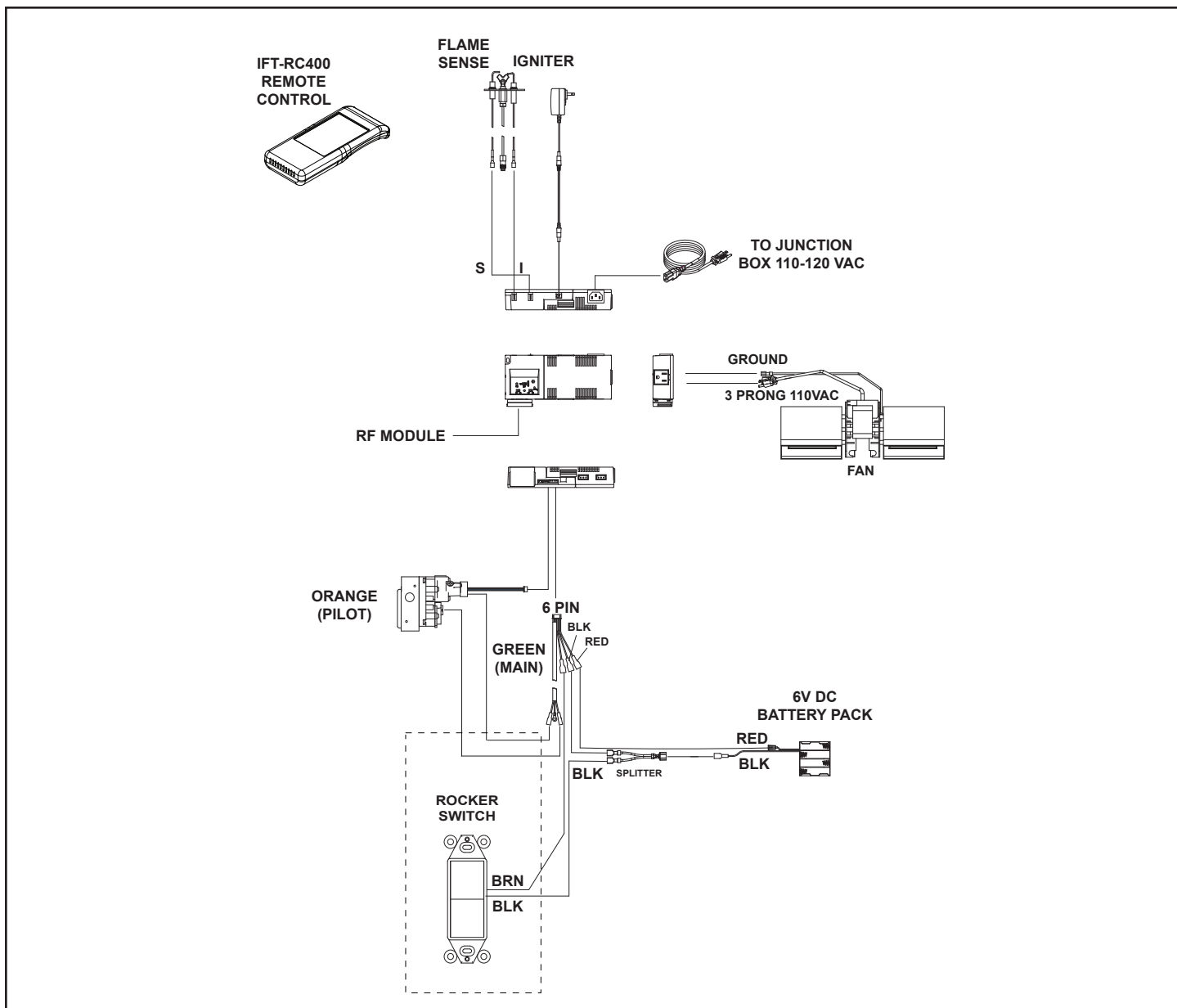


Figure 6.3 - SDDVT-IFT Wiring Diagram

7 Service Parts List



Service Parts

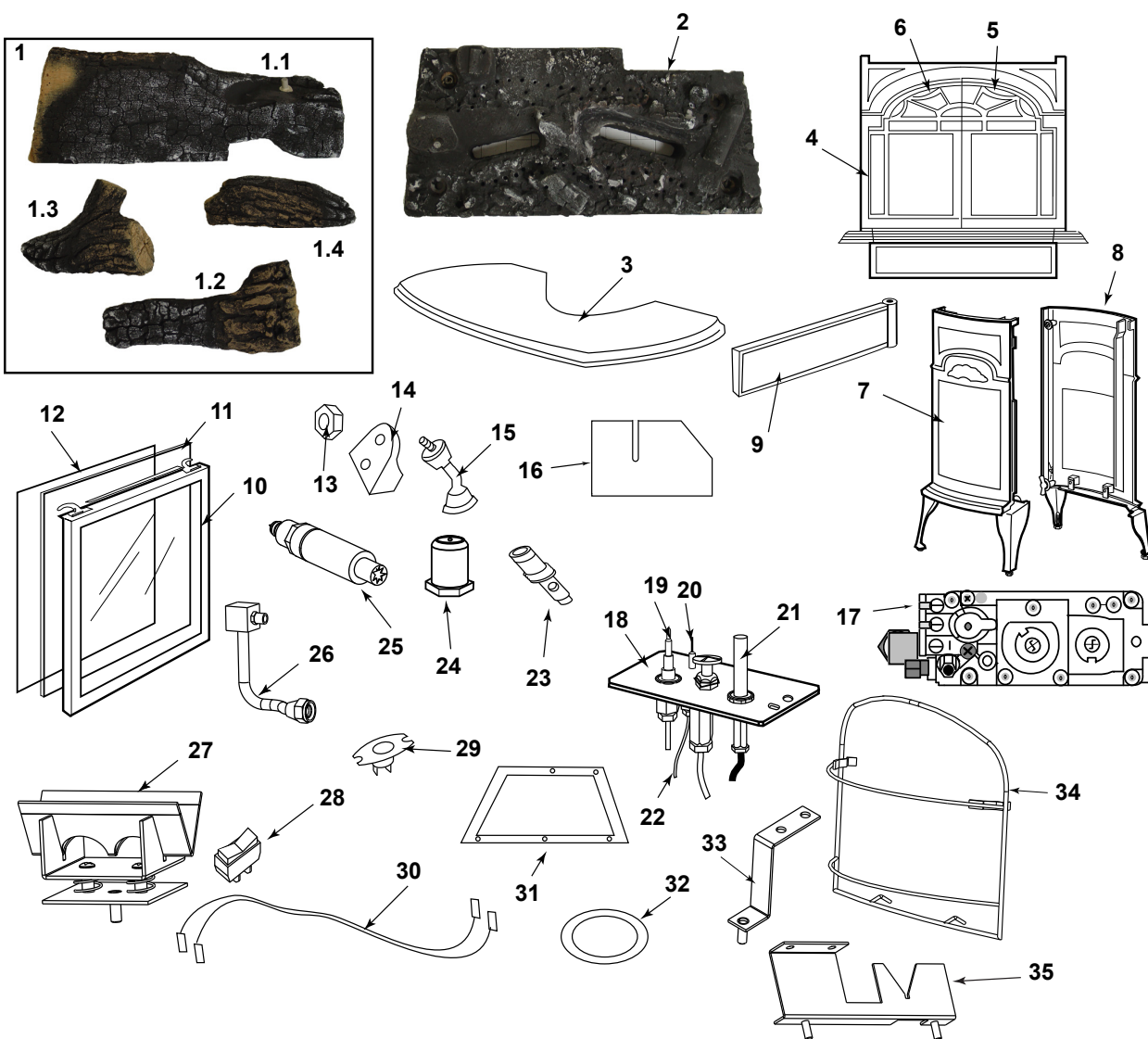
Direct Vent Gas Heater
With Standing Pilot Ignition

STARDANCE DV

Beginning Manufacturing Date: NA
Ending Manufacturing Date: Active

SDDVTCBSB (Classic Black)
SDDVTBSSB (Biscuit)

SDDVTBMSB (Majolica Brown)
SDDVTBDSB (Bordeaux)



Part number list on following page.

07/20

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.


**Stocked
at Depot**

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Log Set, Complete		20012551	Y
1.1	Log, Rear	No longer available, Must order complete assembly	20012546	
1.2	Log, Right		20012548	
1.3	Log, Left		20012547	
1.4	Log, Top		20012915	
2	Ember Bed Assembly		20012492	Y
3	Top	Classic Black	30001276A	
		Biscuit	30003305A	
		Bordeaux	30006752A	
		Brown Majolica	30004897A	
4	Front, Operable Door	Classic Black	30001496A	
		Biscuit	30003302A	
		Bordeaux	30006753A	
		Brown Majolica	30004899A	
5	Door, Right (Use Magnet) (Pre 7/2007 units must order Left and Right together)	Classic Black	30004081A	
		Biscuit	30004089A	
		Bordeaux	30006754A	
		Brown Majolica	30004901A	
6	Door, Left (Use Magnet) (Pre 7/2007 units must order Left and Right together)	Classic Black	30004082A	
		Biscuit	30004090A	
		Bordeaux	30006755A	
		Brown Majolica	30004900A	
7	End, Left	Classic Black	30001280A	
		Biscuit	30003300A	
		Bordeaux	30006750A	
		Brown Majolica	30004895A	
8	End, Right	Classic Black	30001279A	
		Biscuit	30003301A	
		Bordeaux	30006751A	
		Brown Majolica	30004896A	
9	Door, Control		1301087A	
10	Glass Frame Assembly		30000127	Y
11	Glass		1601691	Y
12	Gasket, Glass (Medium Knit)		1203702K	
13	Nut, Hex Jam 3/8-16 TOPLK-Z	Pkg of 10	1203290-10	
14	Pawl Assembly, Ash Door		30002362	
15	Front Steel Handle/Shaft - NI/VER		30002717	Y
16	Restrictor Plate		20013026	

Additional service parts on following page

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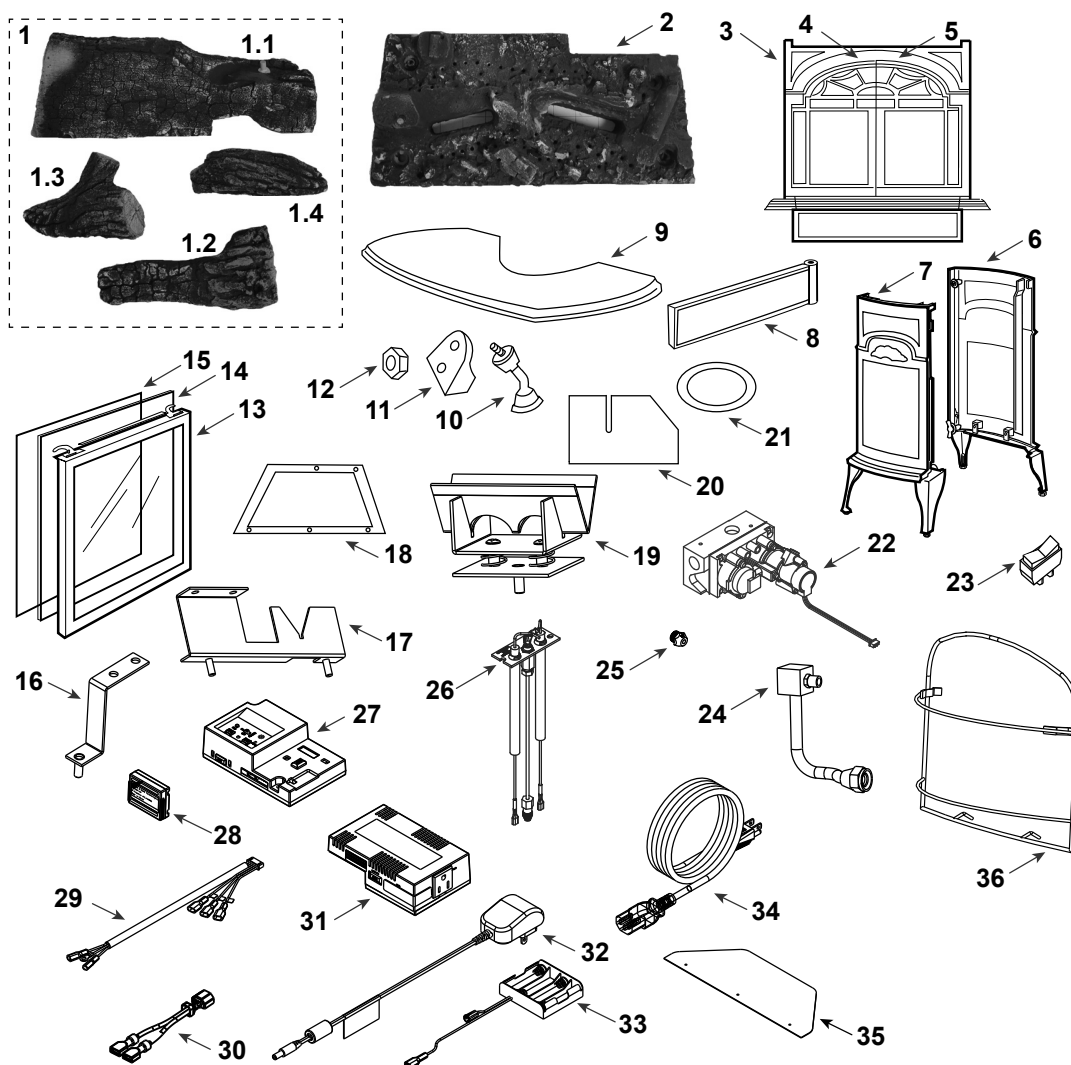

**Stocked
at Depot**

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
17	Valve, Nova SIT 820.852 RN		20012218	Y
18	Pilot Assembly 3 Way	N/DV RN 0.199.706	SRV10002264	Y
		N/DV RP 0.199.703	SRV10002265	Y
19	Thermocouple, 24"		SRV24D0808	Y
20	Electrode Ignitor w/Cable SIT24		10001297	
21	Thermopile, 18" RS		SRV26D0566	Y
22	Tubing Pilot w/Fittings 1/8 x 24"		26D0665	Y
23	Pilot Orifice, Top Convertible	NG, #62	37D0022	
		LP, #35	SRV200-2630	Y
24	Orifice Hood	NG, 2.4 mm	4604-316	
		LP, 1.45 mm	20308650	
25	Ignitor Piezo w/Nut SIT		057958A	Y
26	Manifold Assembly		20012553	Y
27	Air Shutter Assembly		20012517	
28	Trim On/Off Switch		30000874	Y
29	Sensor1450 CMG-8184-0032	Only for FSDHAG	10002013	Y
30	Wiring Harness		10002582	Y
31	Gasket, Base Pan		20002282	Y
32	Gasket HE Door		1203687A	Y
33	Tie Bracket Assembly		20012514	
34	Safety Screen Barrier		30007254	Y
35	Right Burner Support Assembly		20012512	
	Handle Package w/Screw	Wood	30004175K	Y
	Switch Bracket		53821K	
	Starter Pipe		20307738K	
	Rear Shroud		20003802	
	Fiberglass Gasket, 1/4"		1-00-1203560	Y
	Magnet, Door (Use super glue/silicone to attach)		30004112	
	Touch-Up Paint	Classic Black	3-42-19905	
		Bordeaux	0001341	
		Biscuit	0001277	
		Majolica	0001270	
	Control Plate Assembly (Burner, Valve, Pilot)		20012493	
	Finish Bag		SRV30007263	
Conversion Kits				
	Conversion Kit, NG to LP		20012735K	Y
	Conversion Kit, LP to NG		4604-012	Y

Direct Vent Gas Heater w/IFT Controls

SDDVT-IFT-CB (Classic Black)
SDDVT-IFT-BD (Bordeaux)

SDDVT-IFT-BM (Majolica Brown)
SDDVT-IFT-BS (Biscuit)



Part number list on following page.

07/20

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**Stocked
at Depot**

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Log Set, Complete		20012551	Y
1.1	Log, Rear	No longer available, Must order complete assembly	20012546	
1.2	Log, Right		20012548	
1.3	Log, Left		20012547	
1.4	Log, Top		20012915	
2	Ember Bed Assembly		20012492	Y
3	Front, Operable Door	Classic Black	30001496A	
		Biscuit	30003302A	
		Bordeaux	30006753A	
		Brown Majolica	30004899A	
4	Door, Left (Use Magnet)	Classic Black	30004082A	
		Biscuit	30004090A	
		Bordeaux	30006755A	
		Brown Majolica	30004900A	
5	Door, Right (Use Magnet)	Classic Black	30004081A	
		Biscuit	30004089A	
		Bordeaux	30006754A	
		Brown Majolica	30004901A	
6	End, Right	Classic Black	30001279A	
		Biscuit	30003301A	
		Bordeaux	30006751A	
		Brown Majolica	30004896A	
7	End, Left	Classic Black	30001280A	
		Biscuit	30003300A	
		Bordeaux	30006750A	
		Brown Majolica	30004895A	
8	Door, Control		1301087A	
9	Top	Classic Black	30001276A	
		Biscuit	30003305A	
		Bordeaux	30006752A	
		Brown Majolica	30004897A	
10	Front Steel Handle/Shaft - NI/VER		30002717	Y
11	Pawl Assembly, Ash Door		30002362	
12	Nut, Hex Jam 3/8-16 TOPLK-Z	Pkg of 10	1203290-10	
13	Glass Frame Assembly		30000127	Y
14	Gasket, Glass (Medium Knit)		1203702K	
15	Glass		1601691	Y

Additional service parts on following page

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.


**Stocked
at Depot**

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
16	Tie Bracket Assembly		20012514	
17	Right Burner Support Assembly		20012512	
18	Gasket, Base Pan		20002282	Y
19	Air Shutter Assembly		20012517	
20	Restrictor Plate		20013026	
21	Gasket HE Door		1203687A	Y
22	Valve Assembly	NG	2166-302	Y
		Propane	2166-303	Y
23	Trim On/Off Switch		30000874	Y
24	Manifold Assembly		20012553	Y
25	Orifice Hood	NG	4604-316	Y
		Propane	20308650	Y
26	Pilot Assembly	NG	SRV4602-300	Y
	Pilot Orifice	NG	SRV582-880	Y
		Propane	SRV4602-301	Y
27	Control Module		SRV2326-130	Y
28	Module, RF		2326-120	Y
29	Wiring Harness, 6 Pin		SRV2326-132	Y
30	Jumper Wire		SRV2187-198	Y
31	Module, AC		2326-150	Y
32	Transformer, 6 Volt		SRV2326-131	Y
33	Battery Pack**		SRV2326-134	Y
34	Cable, Module AC		SRV2326-152	Y
35	Front Cover		SRV30007460	
36	Safety Screen Barrier		30007254	Y
	Magnet, Door	Use super glue/ Silicone to attach	30004112	
	Power Cord		SRV30005079	Y
	Rear Shroud Assembly		SRV30007464	
	RC400 Remote		SRV2326-110	Y
	Switch Bracket		53821K	
	Starter Pipe		20307738K	
	Finish Bag		SRV30007263	

**Fuse for battery pack can be sourced locally, not a warranty item. Specs are 250v, 3A fuse, 3/4" long

Additional service parts on following page

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.



Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
	Touch-Up Paint	Classic Black	3-42-19905	
		Bordeaux	0001341	
		Biscuit	0001277	
		Majolica	0001270	
	Warming Shelf Kit	Classic Black	0002702	
		Bordeaux	0002686	
		Biscuit	0002684	
		Majolica	0002681	
	Shelf	Classic Black	1301133A	
		Bordeaux	SRV30006758	
		Biscuit	SRV30003227	
		Majolica	SRV30004853	
	Shelf Bracket	Classic Black	1301132A	
		Bordeaux	SRV30006757	
		Biscuit	SRV30003226	
		Majolica	SRV30004852	
	Shelf Clip	Qty 2 req	1409035	
	Hardware Pack		30007019K	
Conversion Kits				
	Conversion Kit	NG to Propane	SRV30007468	Y
		Propane to NG	SRV30007469	Y
	Regulator	NG	NGK-DXV-50	Y
		Propane	SRVLPK-DXV-50	Y

8 Optional Accessories

Fan Kit - SDDVT Series

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

Remote Controls - SDDVT

The remote control allows you to turn the heater on or off from anywhere in the room. Refer to Page 40 for wiring diagrams. These remote controls are for use with standard millivolt models.

ON/OFF Remotes

RCB,RCMT

ON/OFF Thermostat Remote

TSST, RCST

Warming Shelf

Warming shelves add versatility to your stove; they can be used to keep foods warm at mealtime.

Model Color

1560	Classic Black
1553	Brown Majolica
1555	Biscuit
1571	Bordeaux

Shelf Installation

1. Attach the shelf loosely to the stove, leaving the screws loose enough to allow final adjustments.
2. Position the shelf and adjust the brackets so the shelf fits correctly.
3. Tighten the screws.

Refer to the instructions included with each warming shelf for complete installation procedures.

9 Warranty Policy

Hearth & Home Technologies LIMITED LIFETIME WARRANTY

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

WARRANTY COVERAGE:

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

WARRANTY PERIOD:

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

The term "Limited Lifetime" in the table below is defined as: 20 years from the beginning date of warranty coverage for gas appliances, and 10 years from the beginning date of warranty coverage for wood and pellet appliances. These time periods reflect the minimum expected useful lives of the designated components under normal operating conditions.

Warranty Period		HHT Manufactured Appliances and Venting					
Parts	Labor	Gas	Pellet	Wood	Electric	Venting	Components Covered
1 Year		X	X	X	X	X	All parts including handles, external enameled components and other material except as covered by Conditions, Exclusions, and Limitations listed
2 years			X	X			Igniters, Auger Motors, Electronic Components, and Glass
		X					Electrical components limited to modules, remotes/wall switches, valves, pilots, blowers, junction boxes, wire harnesses, transformers and lights (excluding light bulbs)
		X		X			Molded Refractory Panels, Glass Liners
3 years			X				Firepots, burnpots, mechanical feeders/auger assemblies
5 years	1 year	X					Vent Free Burners, Vent Free Logs
			X	X			Castings, Medallions and Baffles
6 years	3 years			X			Catalyst - Limitations Listed
7 years	3 years		X	X			Manifold tubes, HHT Chimney and Terminations
10 years	1 year	X					Burners, logs and refractory
Limited Lifetime	3 years	X	X	X			Firebox and heat exchanger, FlexBurn® System (engine, inner cover, access cover and fireback)
1 Year	None	X	X	X	X	X	All replacement parts beyond warranty period

See conditions, exclusions and limitations on the next page

WARRANTY CONDITIONS:

- This warranty only covers HHT appliances that are purchased through an HHT authorized dealer or distributor. A list of HHT authorized dealers is available on the HHT branded websites.
- This warranty is only valid while the HHT appliance remains at the site of original installation.
- This warranty is only valid in the country in which the HHT authorized dealer or distributor that sold the appliance resides.
- Contact your installing dealer for warranty service. If the installing dealer or distributor is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the product.
- Check with your dealer in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this warranty.
- Limited Catalyst Warranty
 - o For wood burning products containing a catalyst, the catalyst will be warranted for a six-year period to the original purchaser at the site of original installation. The purchaser must provide the name, address, and telephone number of the location where the product is installed, proof of original purchase date, date of failure, and any relevant information regarding the failure of the catalyst.

WARRANTY EXCLUSIONS:

This warranty does not cover the following:

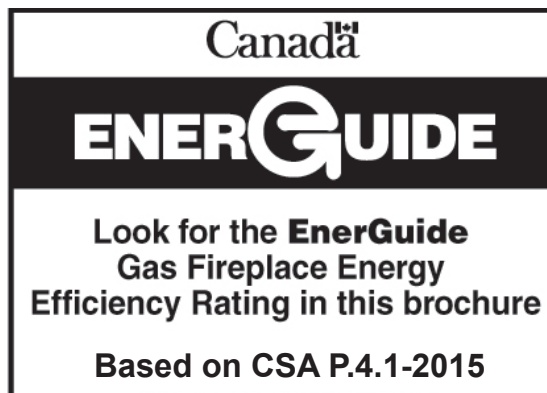
- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse,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

This warranty is void if:

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

LIMITATIONS OF LIABILITY

- The owner's exclusive remedy and HHT's sole obligation under this warranty, under any other warranty, express or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above. In no event will HHT be liable for any incidental or consequential damages caused by defects in the appliance. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific rights; you may also have other rights, which vary from state to state. EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE.



EFFICIENCY RATINGS

MODEL	ENERGUIDE RATINGS	
	STOVE EFFICIENCY PERCENTAGE	D.O.E. (AFUE PERCENTAGE)
SDDVT Series	58.4	66.5
SDDVT-IFT Series	63.3	66.5



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FIREPLACE
INSTITUTE**

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www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

VERMONT  CASTINGS

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