

**INSTALLER / CONSUMER
SAFETY INFORMATION**

PLEASE READ THIS MANUAL
BEFORE INSTALLING AND USING
APPLIANCE.

WARNING!
IF THE INFORMATION IN THIS
MANUAL IS NOT FOLLOWED
EXACTLY, A FIRE OR EXPLOSION
MAY RESULT CAUSING PROP-
ERTY DAMAGE, PERSONAL IN-
JURY OR LOSS OF LIFE.

FOR YOUR SAFETY

Installation and service must be per-
formed by a qualified installer, service
agency or the gas supplier.

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 your neighbor's phone. Follow
the gas supplier's instructions.
- If you cannot reach your gas supplier,
call the fire department.

**DO NOT STORE OR USE GASO-
LINE OR OTHER FLAMMABLE
VAPORS AND LIQUIDS IN THE
VICINITY OF THIS OR ANY OTHER
APPLIANCE.**

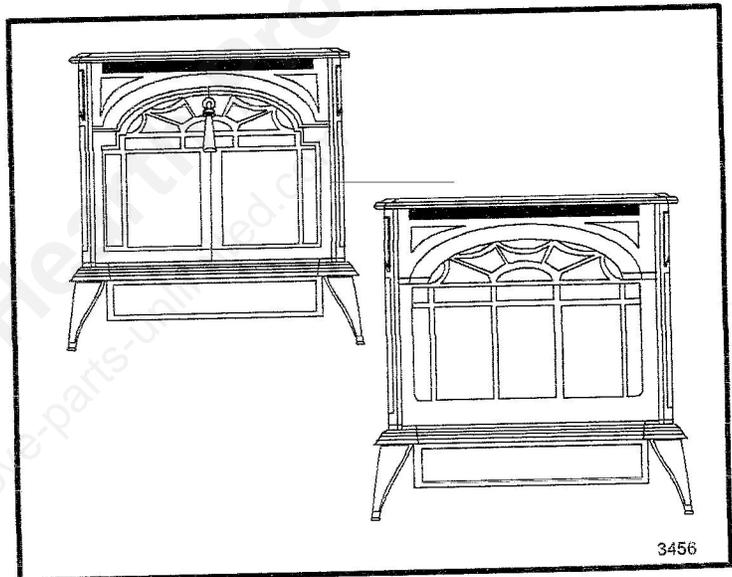
This appliance may be installed in an after
market permanently located manufac-
tured (mobile) home where not prohibited
by local codes.

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.



**Stardance
Direct Vent/Natural
Vent Gas Heater**
Models: 3070, 3071, 3072, 3073



**Homeowner's Installation
and Operating Manual**



Tested and listed to
ANSI Z21.88b-1998 and CSA-2.33b-M98

**INSTALLER: DO NOT DISCARD THIS MANUAL -
LEAVE FOR HOMEOWNER**

20003456 / 0201

ATTENTION CONSUMER:

In order to ensure safe and effective installation, this unit must be installed only by a qualified agency, individual, firm, corporation, or company that is experienced in the installation, repair and servicing of this type of appliance and is familiar with the building codes and installation techniques appropriate in your area. Contact your hearth products dealer or local gas supplier for the name of a qualified service person.

INSTALLER:

Please read this manual carefully before you begin the installation procedures. Failure to follow instructions may result in property damage, bodily injury or loss of life. This manual contains important user information. Keep this manual with the fireplace after installation is complete.

ATTENTION

The Stardance stove is shipped from the factory as a Direct Vent Gas Heater. This heater may be converted into a Natural Vent unit in the field. If a Natural Vent heater is desired, the Vermont Castings Z31D00 FSDHAG Draft Hood must be directly installed to the top of the unit according to the installation instructions.

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

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The Stardance Direct Vent/Natural Vent Room Heater, Model Nos. 3070, 3071, 3072 and 3073, is a vented gas appliance listed to the ANSI standard Z21.88-1998 and CSA-2.33-M98 for Vented Room Heaters, and CAN/CGA 2.17-M91, Gas-Fired Appliances For Use at High Altitudes.

The installation of the Stardance Direct Vent/Natural Vent Room Heater must conform with local codes, or in the absence of local codes, with National Fuel Gas Code, ANSI Z223.1 — latest edition and CAN/CGA B-149.1 Installation Code. Installer l'appareil selon les codes ou reglements locaux, ou, en l'absence de tels reglements, selon les Codes D'Installation CAN/CGA-B.149 (EXCEPTION: Do not derate this appliance for altitude. Maintain the manifold pressure at 7 inches w.c. for Natural Gas and 11 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. 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/Natural Vent Room Heater should be inspected before use and at least annually by a qualified service agency. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean. S'assurer que le bruleur et le compartiment des commandes sont toujours propres. Voir les instructions d'installation qui accompagnent l'appareil.

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

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

A 1/8-inch N.P.T. plugged tapping, accessible for test gauge connection, should be installed on the inlet gas connection.

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

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

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

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the appliance.

Clothing or other flammable materials should not be placed on or near the appliance. Surveiller les enfants. Garde les vêtements, le meubles, l'essence ou autres liquides a vapeur inflammables lin de l'appareil.

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.*

Specifications

Stardance Direct Vent/Natural Vent Gas Heater / NG 3070, 3072 and LP 3071, 3073

| Fuel | NG | LP |
|--|-------------|--------------|
| Manifold Pressure - Min./Max.: | 1.7" / 3.5" | 6.3" / 10.0" |
| Min. Inlet Supply Pressure for adjustment: | 7.0" w.c. | 11.0" w.c. |
| Input BTU/h | 28,000 | 28,000 |

Ignition: Piezo

Thermostat: Not supplied - use only 500 millivolt type

Weight: Fully assembled in Freestanding Shell; 202 lbs.

CSA Design Certified to ANSI Z21.88-1998 and CSA Z.2.33-M98 for Vented Gas Fireplace Heaters by International Approval Services

Accessories

#2767 FK26 Fan Kit

#3335 S30SK Screen Kit

MRC1 ZC1100 Remote Control (ON/OFF w/batteries)

MRC2 ZC1200 Remote Control (ON/OFF thermostat w/batteries)

MRC3 ZC1300 Remote Control (LCD ON/OFF thermostat, timer w/batteries)

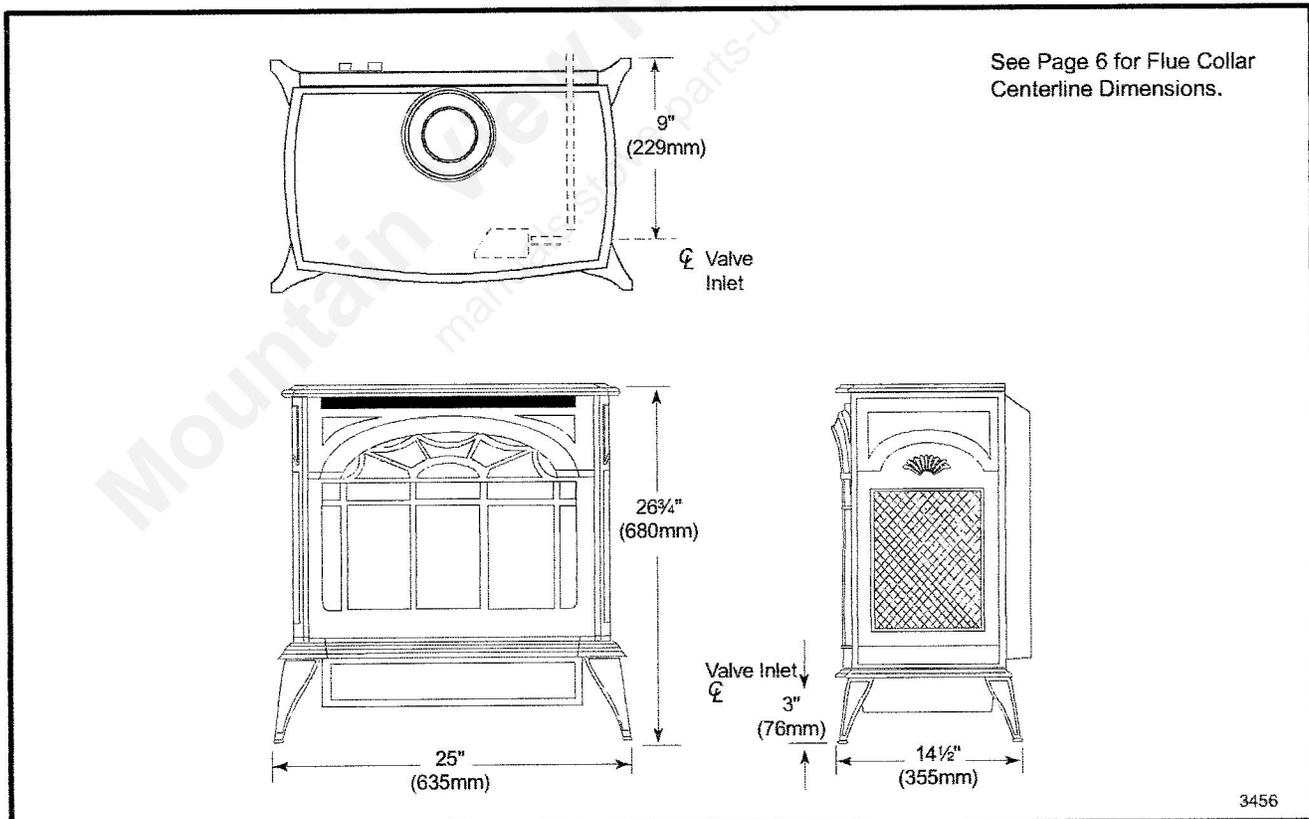


Fig. 1 Stardance dimensions.

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 - latest edition. (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 Propane).

In Canada, installation must be in accordance with the current CAN/CGA 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.

Hearth Requirements

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

Locating The Stove

In choosing a location for the stove, consider:

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

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

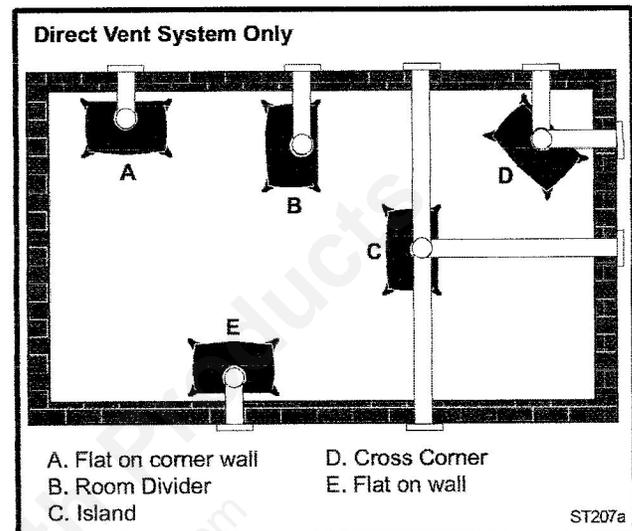


Fig. 2 Possible stove locations.

Surrounding Materials

The Stardance Heater will heat nearby surfaces when operating. A safe installation requires that adequate clearance be maintained between the stove and nearby combustible materials to ensure that such materials do not overheat. The diagrams that follow illustrate the minimum clearances for the appliance in parallel, corner, and alcove installations.

Clearance Requirements

Minimum Clearances to Combustible Materials

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

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

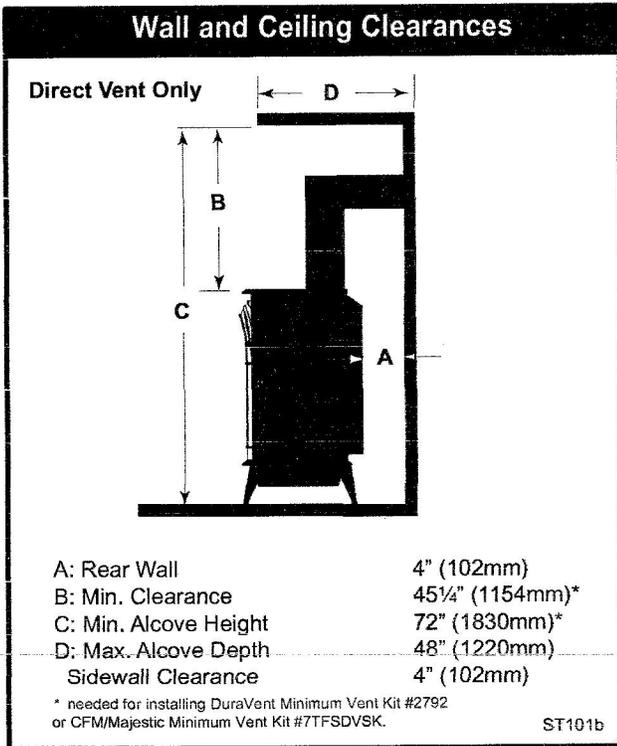


Fig. 3 Dimensions and clearances to ceiling or alcove.

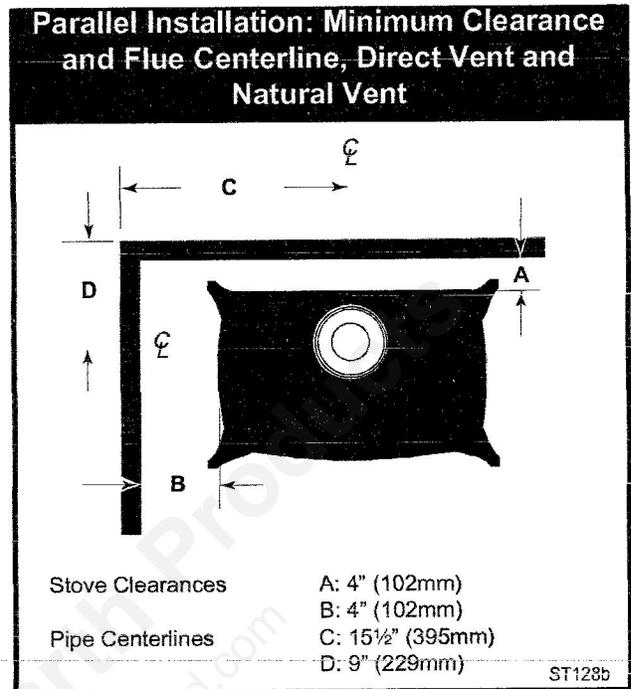


Fig. 5 Parallel installation, minimum back and side clearances, and flue centerlines.

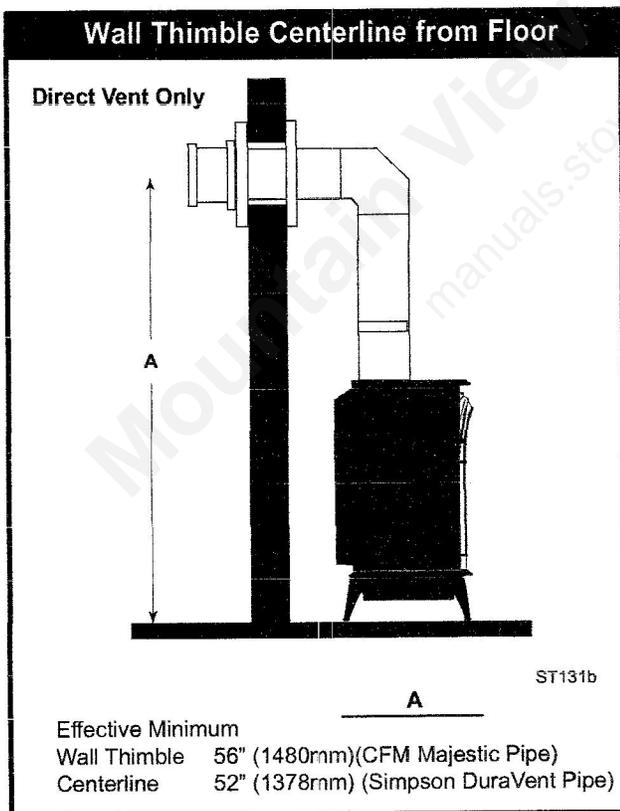


Fig. 4 Minimum wall thimble centerline.

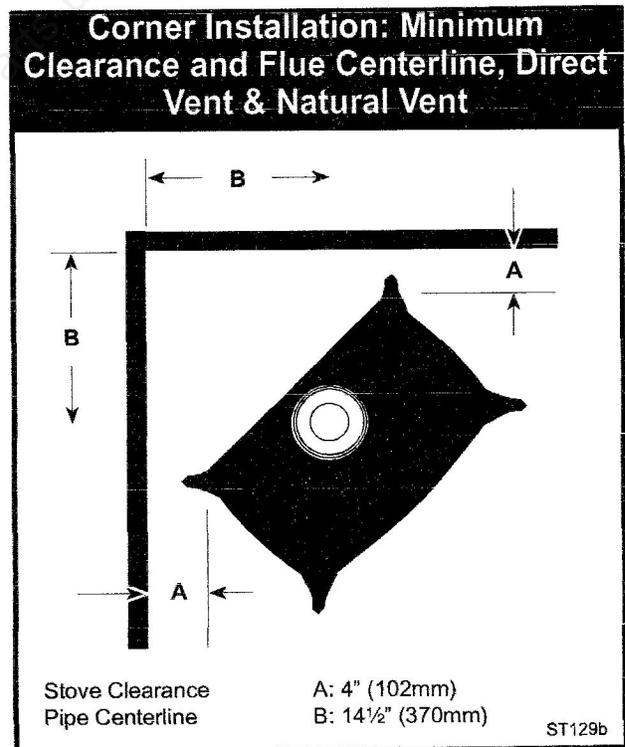


Fig. 6 Corner installation, minimum corner clearances and flue centerline.

**Venting Requirements and Options -
Direct Vent ONLY**

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 Majestic Products Dealer.

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

Simpson DuraVent Components

Minimum Horizontal Vent Kit 2792

| | |
|--|-------|
| Starter Pipe Assembly (incl. inner & outer sections) 2768* | |
| 90° Elbow, Blk. | 990B* |
| 45° Elbow, Gal. | 945 |
| 6" Straight, Blk. | 908B* |
| 9" Straight, Blk. | 907B |
| 11" - 14 ⁵ / ₈ " Adjustable Straight Section | 911B |
| 12" Straight | 906 |
| 24" Straight | 904B* |
| 36" Straight | 903B |
| 48" Straight | 902 |
| Horizontal Vent Cap | 984* |
| Wall Plate* | 940 |
| Vinyl Siding Shield | 950 |
| Snorkel Termination - 14" | 982 |
| Snorkel Termination - 36" | 981 |
| Wall Strap | 988 |
| Cathedral Ceiling Support Box | 941 |
| Storm Collar | 953 |
| Firestop Spacer | 963 |
| Flashing 0/12 - 6/12 | 943 |
| Flashing 6/12 - 12/12 | 943S |
| Vertical Termination Cap | 991 |

*Included in Minimum Horizontal Vent Kit #2792

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

CFM Vent Components

The following kits are available to meet the needs of most installations. All pipe has a 7" outer diameter and includes a 4" diameter inner section. A (CG) designation indicates the part is finished in Charcoal Gray paint. Consult your dealer about other vent parts that may be appropriate to complete the installation.

Min. Through the Wall Vent Kit 7TFSMSK

- (1) 90-Degree Elbow (CG)
- (1) 24" Straight pipe (CG)
- (1) 36" Straight pipe (CG)
- (1) Side Wall Termination

- (1) Firestop
- (1) Zero-clearance sleeve
- (1) Hardware package
- (1) Finishing plate (CG)
- (1) Finishing collar (CG)
- (4) Polished Brass flue pipe rings

Through the Wall Vent Kit 7TFSDVSK

- (1) 90-Degree Elbow (CG)
- (1) 24" Straight pipe (CG)
- (1) 48" Straight pipe (CG)
- (1) Side Wall Termination
- (1) Firestop
- (1) Zero-clearance sleeve
- (1) Hardware package
- (1) Finishing plate (CG)
- (1) Finishing collar (CG)
- (4) Polished Brass flue pipe rings

Through the Wall Vent Kit for Below-Grade Termination 7TFSDVSKS

Includes all of the above parts plus

- (1) Snorkel Termination

Vertical Termination Kit, 1/12-6/12 Pitch 7TDVSKVA

- (1) Combination Horizontal Offset / Roof Support
- (1) Vertical Termination
- (1) Storm Collar
- (1) 1/12-6/12 Flashing
- (1) Finishing Plate (CG)
- (1) Finishing Collar (CG)
- (1) Polished Brass Flue Pipe Ring
- (1) Hardware Package

Vertical Termination Kit, 7/12-12/12 Pitch 7TDVSKVB

- (1) 7/12 - 12/12 Flashing
- and all of the other Vertical Termination parts.

Vertical Termination, Flat Roof 7DVSKVF

- (1) Flat Flashing
- and all of the other Vertical Termination parts.

Twist Lock 24" Straight Pipe (CG) 7TFSDVP24

- (1) 24" Non-adjustable Pipe
- (1) Polished Brass Flue Pipe Ring

Twist Lock 48" Straight Pipe (CG) 7TFSDVP48

- (1) 48" Nonadjustable Pipe
- (1) Polished Brass Flue Pipe Ring

Twist Lock 45-Degree Elbow (CG) 7TFSDVT45

- for vertical offsets
- (1) 45-degree Elbow
- (1) Polished Brass Flue Pipe Ring

Combination Offset/Roof Support 7DVCS

Attic Insulation Shield 7DVAIS

7" Charcoal Gray Pipe Rings, (4) 7FSDRG

7" Polished Brass Pipe Rings (4) 7FSDRP

Wall Thimble 942G

NOTE: Direct vent pipe may be used on the Natural Vent system from the top of the draft hood adapter to the ceiling.

Horizontal Termination - Direct Vent ONLY

The vent must rise vertically a minimum of 24" (610mm) 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' (12m). (Fig. 7) Horizontal termination must also meet the criteria shown in Figures 10 through 12.

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

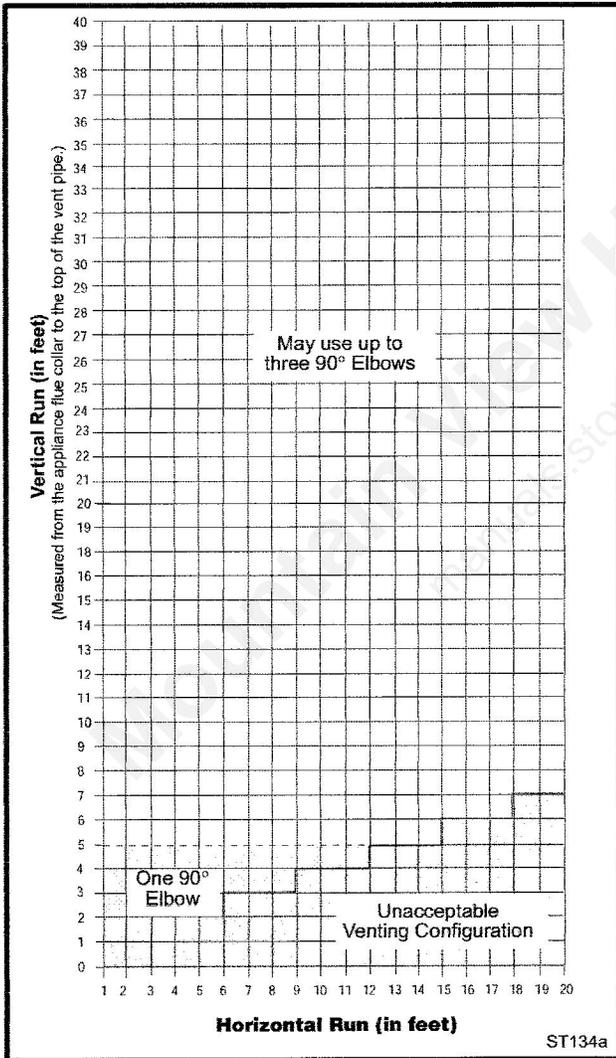


Fig. 7 Horizontal vent termination window.

Vertical Termination - Direct Vent ONLY

A vertical vent system must terminate no less than 8' (2.44m) and no more than 40' (12m) above the appliance flue collar. A 2¼" restrictor plate (supplied) must be used in all vertically terminated vent systems.

NOTE: The restrictor plate supplied with the vertical termination should be discarded. Install restrictor plate supplied with stove directly at stove outlet. A vertically terminated vent system must also conform to the following criteria:

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

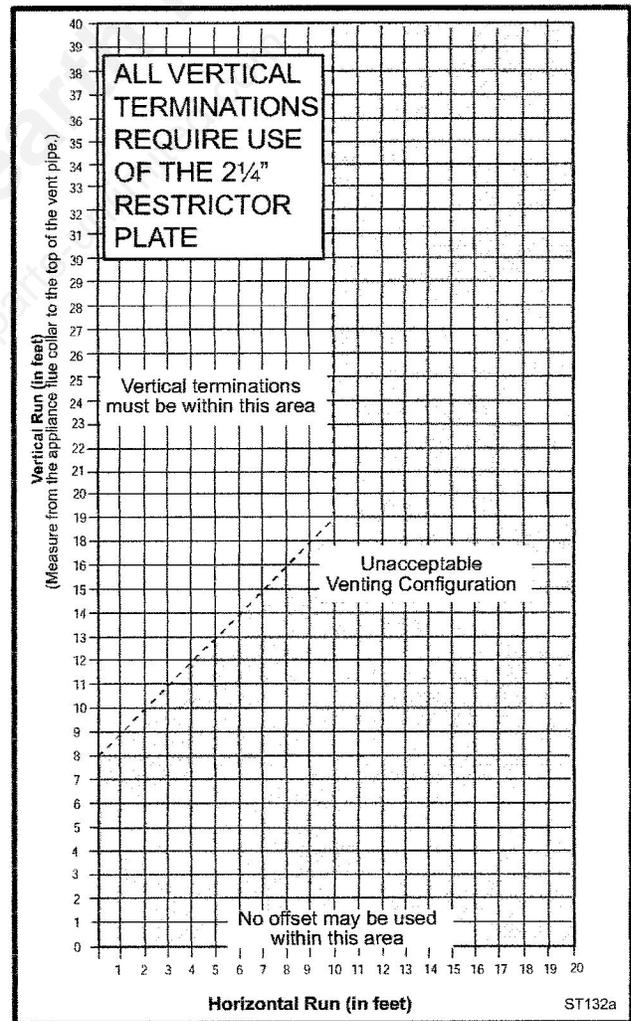


Fig. 8 Vertical vent termination window.

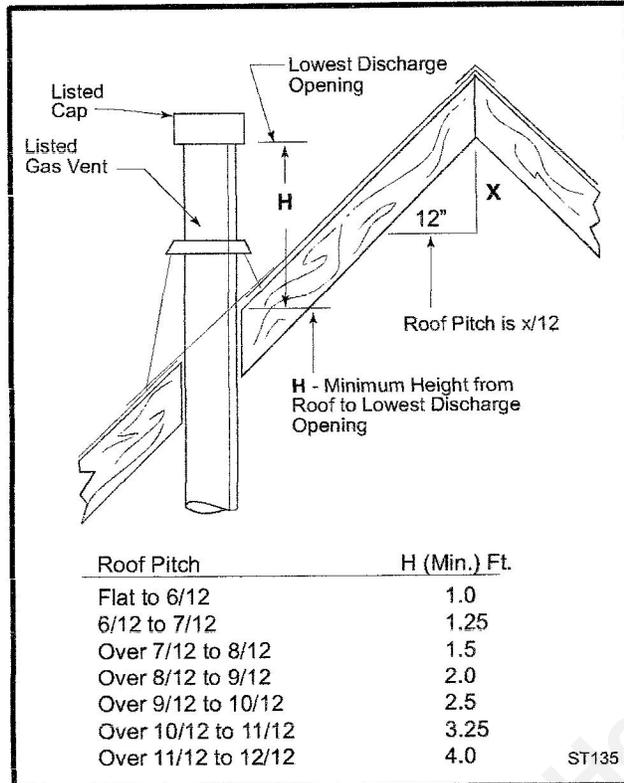


Fig. 9 Vent (chimney) height.

Vent Termination Clearances

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

Important: All vent clearances must be maintained. Check your vent termination clearances against Figures 10 through 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" (305mm)} through which exhaust gas could reenter the building.
- All vegetation within 3' ((76mm) 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.

 **WARNING:**

- Always maintain required clearances (air spaces) to nearby combustibles to prevent fire hazard. Do not fill air spaces with insulation. All venting components must maintain a 1" (25mm) clearance to combustible materials.
- The gas appliance and vent system must be vented directly to the outside of the building and never be attached to a chimney serving a separate solid fuel or gas-burning appliance. Each direct vent appliance must use its own separate vent system. Common vents are prohibited.
- Refer to the manufacturer's instructions included with the venting system for complete installation procedures.

 **IMPORTANT Direct Vent Only**

- The horizontal termination must not be recessed into the exterior wall or siding.
- Horizontal vent runs must be level or rise 1/4" per foot toward the vent termination.
- Clearances around the vent termination must be maintained.
- For installations using Simpson DuraVent pipe, parallel installations with minimum wall clearance have restricted access for connecting the Horizontal Vent Cap straps to the vent pipe. See the maker's instructions for recommended installation procedures.

Vent Termination Clearances

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

- **The Vermont Castings Majestic Products Company does not require any opening for inspection of vent pipe.**
- **Only The Vermont Castings Majestic Products Company venting components specifically approved and labelled for this stove may be used.**
- **Minimum clearances between vent pipes and combustible materials is one (1") inch (25 mm), except where stated otherwise.**

□ Venting terminals shall not be recessed into a wall or siding.

□ Horizontal venting must be installed on a level plane without an inclining or declining slope.

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

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

Location of Vent Termination

It is imperative the vent termination be located observing the minimum clearances as shown on this page.

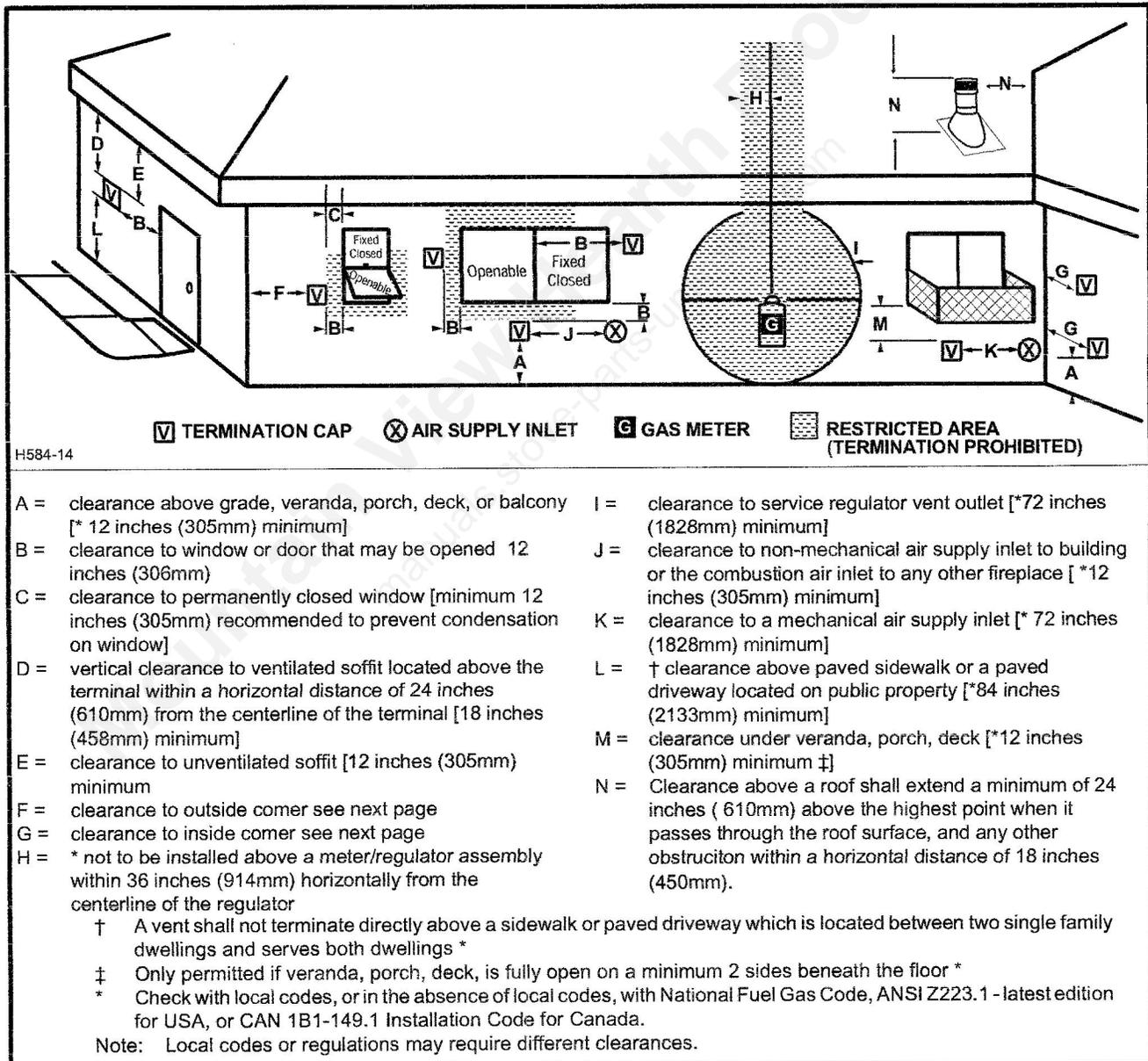


Fig. 10 Vent termination clearances.

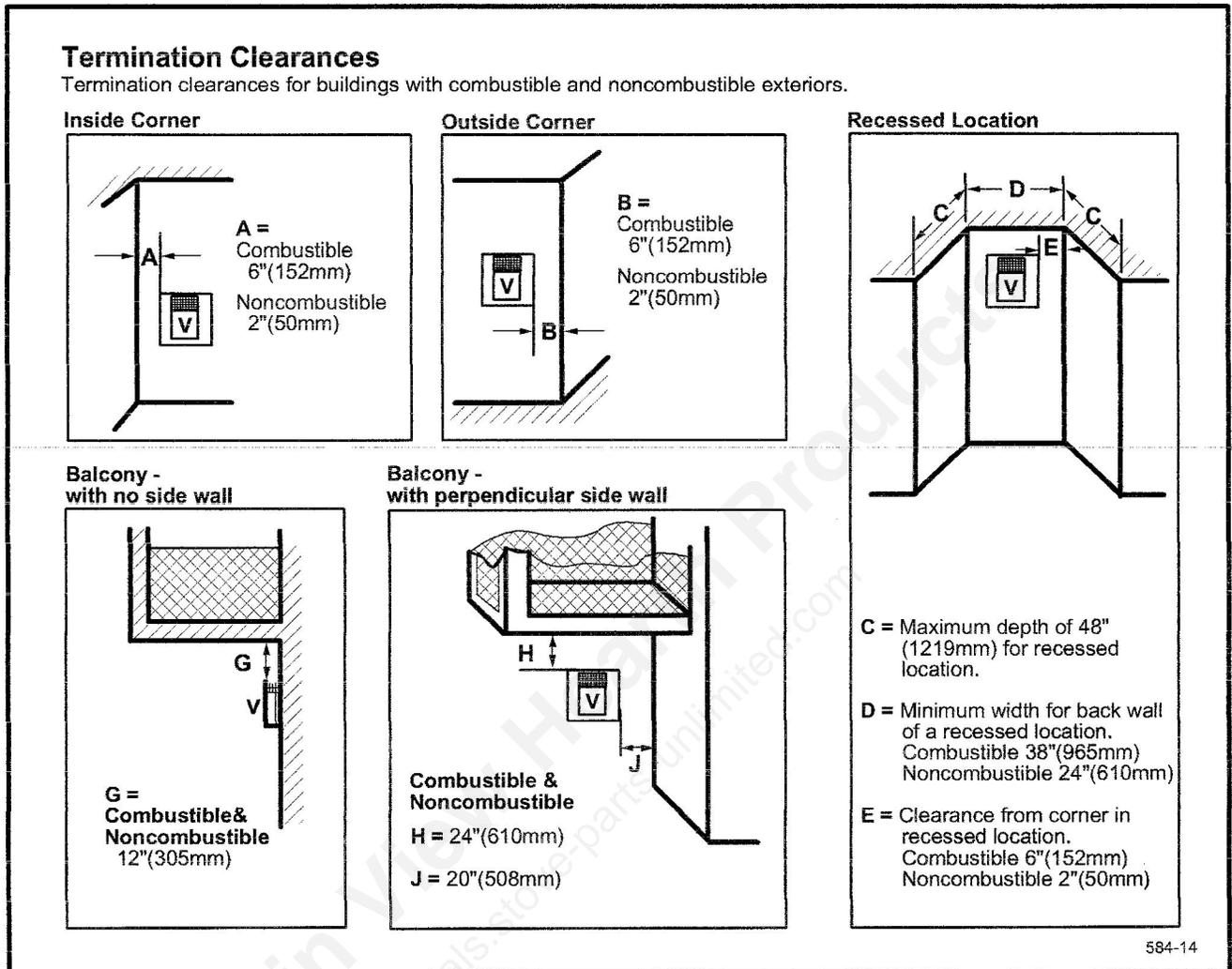


Fig. 11 Termination clearances.

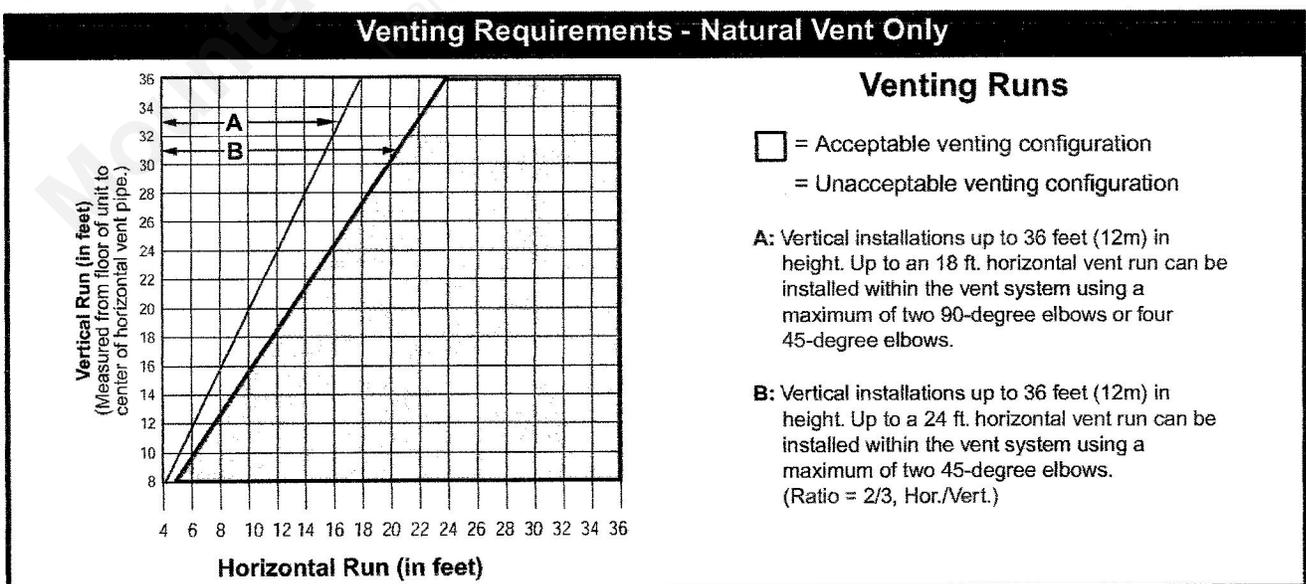


Fig. 12 Vent termination window - Natural Vent ONLY.

Assembly Procedures

Tools Required

- Phillips screwdriver (stub)
- power drill
- utility knife
- reciprocating saw
- metal drill bit: size 28 (.140"/3.5mm)

Unpack the SDV30 Firebox, Logset and Stove Shell

Cut the shipping straps and remove the Rear Skirt from its carton. Remove any packing material from the top of the firebox, Figure 13. Do not remove the firebox from the shipping pallet yet.

Parts Bag Contents:

- On-Off switch, housing, and wiring harness
- (3) Phillips round-head bolts, 1/4"- 20 x 1/2"
- (2) #8 x 1/2" sheet metal screws
- 1 Bag of Lava Rocks
- 1 Wire tie
- 1 Tube of Vent Gasket Cement
- 1 Vent Restrictor Plate, 2 1/4" inside diameter
- Owner Registration Card

Remove the Log Set

The Log Set is inside the firebox in a protective package. The Glass Panel must be removed to install the Log Set in the firebox.

- Swing open the swiveling latches at the top left and right corners of the glass frame. (Fig. 14)
- Pull the top edge of the glass and frame assembly away from the firebox, and lift it off its supports on the bottom of the firebox face. Place the assembly out of the way on a flat, padded surface such as a counter protected by a towel.
- Take the log set and all other loose parts (4" sleeve) out of the firebox, and set them aside in a protected spot, for installation after the venting is complete.

NOTE: Verify the two relief doors (located on top of the firebox) are properly seated on the gasket. The doors should sit flush on the gasket, and should lift easily from the seal around the opening.

Unpack the cast iron stove shell parts from the shipping carton (separate carton). Inspect each part for shipping damage and set it aside on a protective surface. **Porcelain enamelled surfaces are fragile. Handle porcelain enamelled castings tenderly.**

Before you begin assembly, read this section of the manual to familiarize yourself with the procedures. The installation will be easiest if you follow the steps in the order presented.

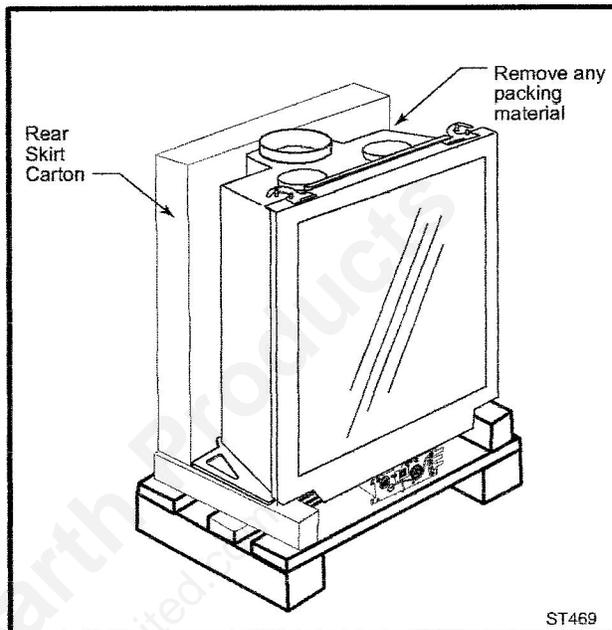


Fig. 13 Stardance firebox as shipped.

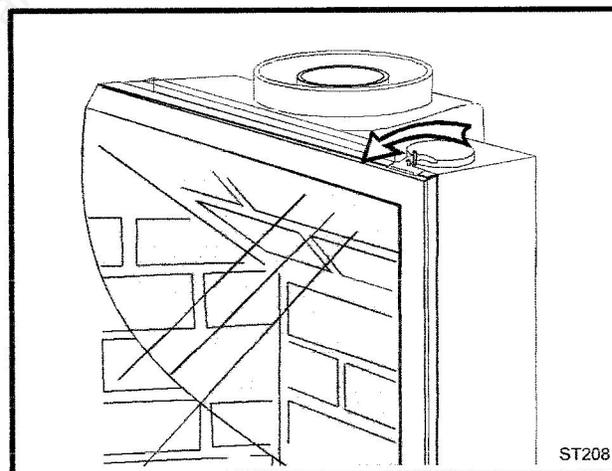


Fig. 14 Swivel the latches to release the glass frame.

Shell Assembly

1. Attach the Rear Skirt to the Left End plate by aligning the key holes with the two wingbolts in the side. If necessary, turn the wingbolts to orient the blades vertically. (Fig. 15) Slide the skirt downward to engage it behind all three washers on the side plate bolts and then tighten both wingbolts.
2. Attach the Right Side Plate to the Rear Skirt. (Fig. 16) Move this assembly close to the stove's final position. Align the two side plates at right angles to the Back Panel as in Figure 17.

NOTE: The firebox is shipped with three bolts and spacers on the bottom to prevent any damage to the bottom assembly. The two front bolts should be removed after installation. Use a 7/16" wrench.

3. Lift the firebox assembly and slide it into the shell. The base of the firebox should rest on the side support shelves as in Figures 17 and 18. The side plates interlock with the firebox by use of a pair of steel tabs that engage with the ribs on the base of the firebox. (Fig. 18) Properly positioned, the firebox will be level and locked in place. If not, adjust the levelling screw in the foot of each leg as needed.

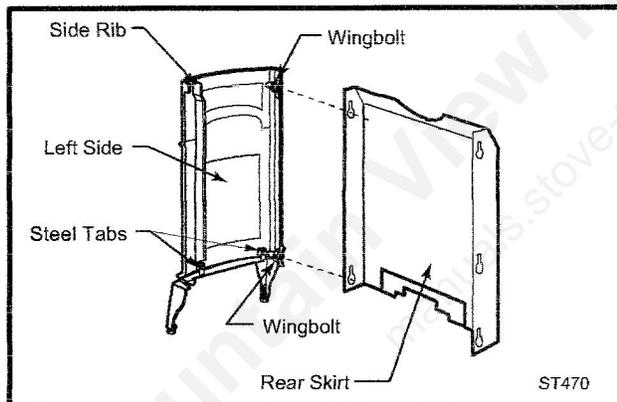


Fig. 15 Fasten left end to rear skirt.

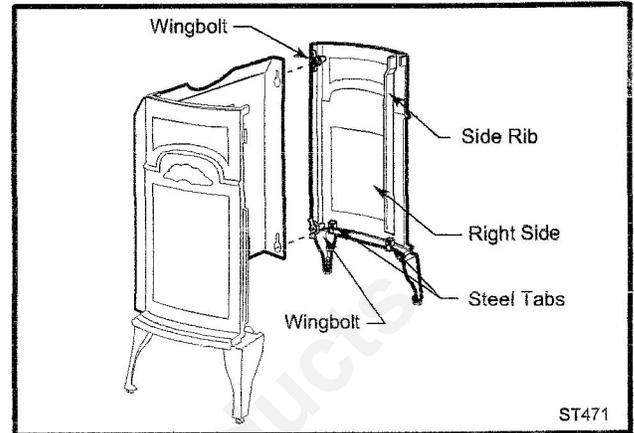


Fig. 16 Fasten right end to rear skirt.

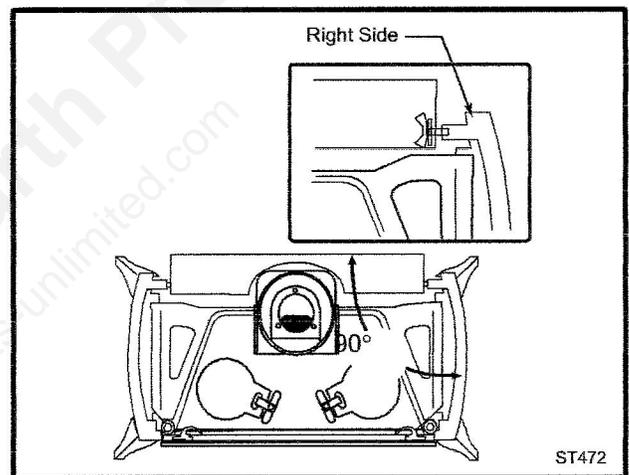


Fig. 17 Align both sides with the rear skirt.

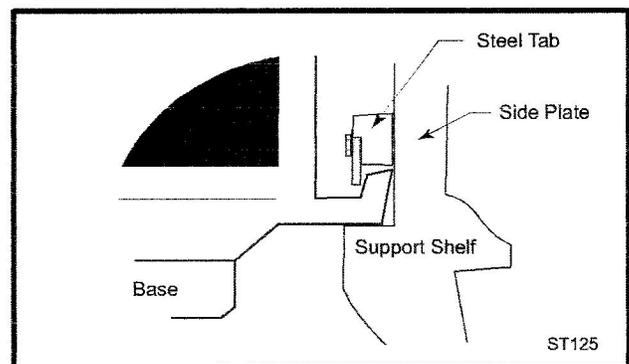


Fig. 18 Install firebox assembly.

Install the Optional Fan

If you are installing the optional convection Fan Kit #2767 (FK26), continue here. If you are not installing a Fan Kit, go to page 15, Venting System Assembly.

1. The fan kit includes a Blower Assembly and a Rheostat Assembly, connected by a cable. (Fig. 19) The Blower Assembly mounts to the bottom rear of the stove, and the Rheostat mounts to the valve coverplate. The assembly includes a 'snapstat' which automatically turns the fan On (or Off) above (or below) approximately 109°. The Rheostat also provides a range of fan speed settings from Off (which overrides the snapstat function) to High. Unpack and inspect the Blower assembly. Confirm that the fan spins freely.

WARNING

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

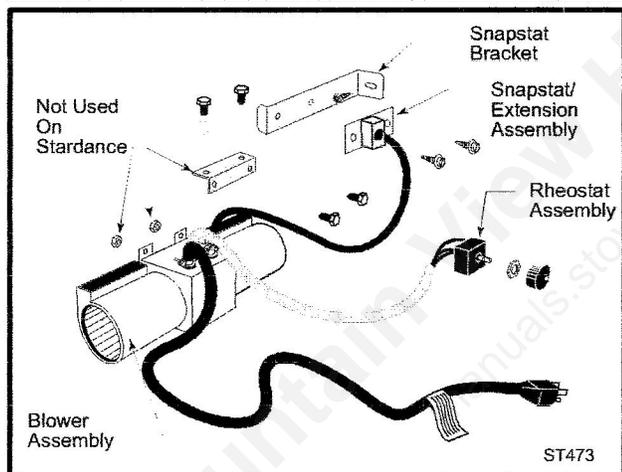


Fig. 19 Fan kit components.

2. Remove the rear skirt insert panel at the bottom of the Rear Skirt (Fig. 20) and fasten the blower assembly to the firebox back with the two Phillips pan-head bolts originally installed in the firebox back. ('1', Fig. 21)
3. Attach the snapstat assembly to the snapstat bracket with two sheet-metal screws. ('2', Fig. 21) Attach the snapstat bracket to the stove with a hex-head bolt passing through the bracket and into the stove base. ('3', Fig. 21)
4. The rheostat control switch attaches to the left side of the valve bracket at the front of the stove.

- Remove the plug from the rheostat bracket.

- Insert the switch box shaft through the hole in the back of the right side of the valve bracket, aligning the locator pin with the smaller hole in that bracket.
- Attach the control knob to the rheostat shaft.
- Use the wire tie to secure the fan and rheostat wire harnesses together.

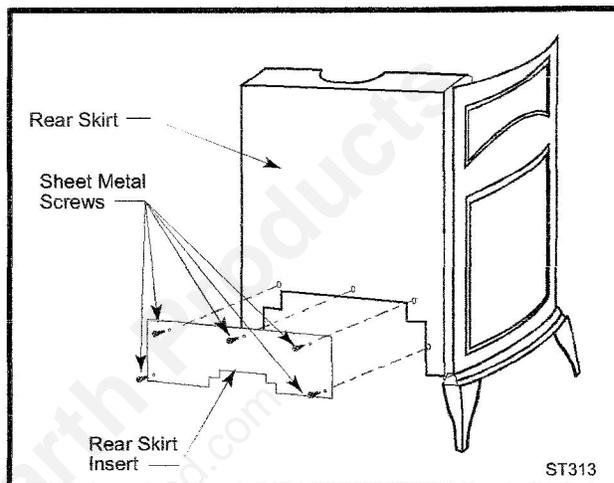


Fig. 20 Remove rear skirt insert.

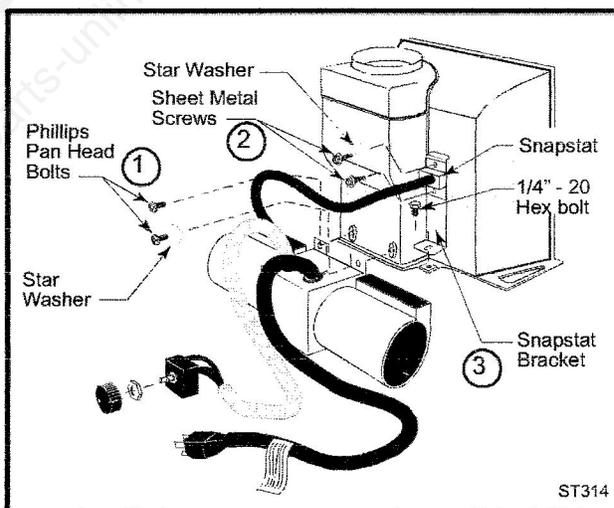


Fig. 21 Attach the fan assembly and the snapstat.

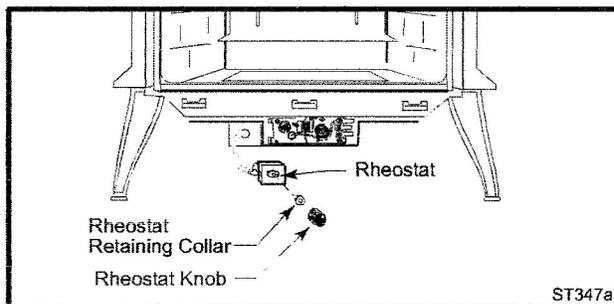


Fig. 22 Attach the fan rheostat.

Venting System Assembly - Direct Vent General Information

The Stardance is approved for installation only with the vent components listed on page 7. 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

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

Install the Vent Adapter Pipe

(CFM Vent Components)

- 1. Install the Restrictor Plate.** Consult the 'Vent Run Specifications' on page 8 to determine whether the restrictor plate is needed. If so, put the restrictor plate in place within the inner flue collar as shown in Figure 23.

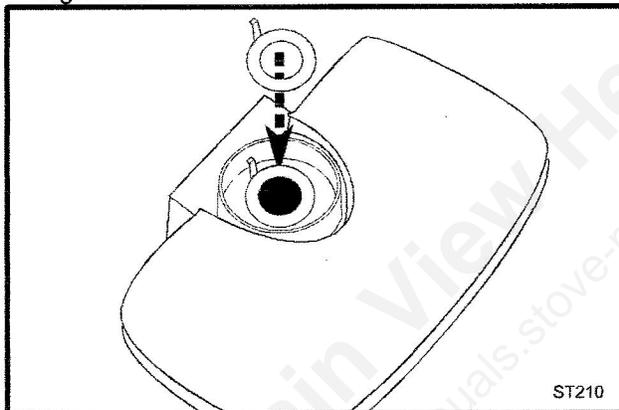


Fig. 23 Install the restrictor plate only if required for the venting configuration. Refer to page 8.

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

- Run a bead of sealant about 1/2" from the upper end of the Inner starter pipe and join the two sections together.
- Drill three pilot holes into the Inner Starter and secure the assembly with three sheet metal screws. (Fig. 24)

- 3. Dry fit the Inner pipe assembly to the stove and determine the required vent length.**

- Insert the vent assembly into the flue collar, but do not attach. Measure to determine the correct length required for your installation and cut the upper end of the pipe as necessary.
- Dry fit the outer vent section and cut to match the height of the Inner assembly.

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

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

- Run a bead of sealant around the bottom end of the starter pipe and attach the assembly to the stove using three 1/4"-20 x 3/8" Phillips screws provided in the parts bag. (Fig. 25)

- 5. Install the Outer Adapter Pipe.** Apply a 1/4" bead of cement around the inside wall of the pipe, about 1" from the end. Insert the pipe over the stove flue collar, keeping the vertical seam oriented to the back of the stove. Also, be sure to align holes on the pipe with the holes on the flue collar of the firebox. Fasten the pipe to the holes in the flue collar with the #12 x 1/2" sheet metal screws provided. (Fig. 26)

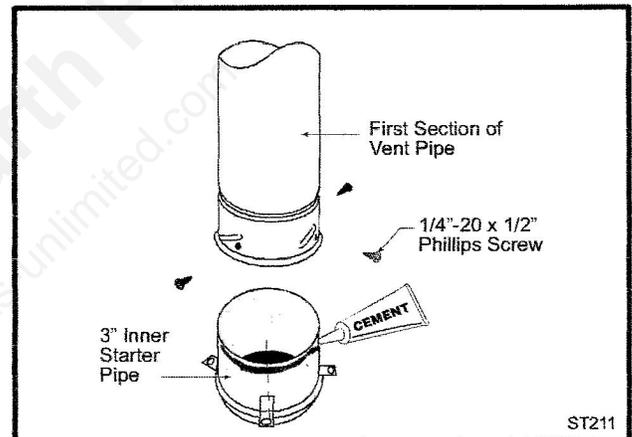


Fig. 24 Connect the inner starter with the next section of inner vent pipe.

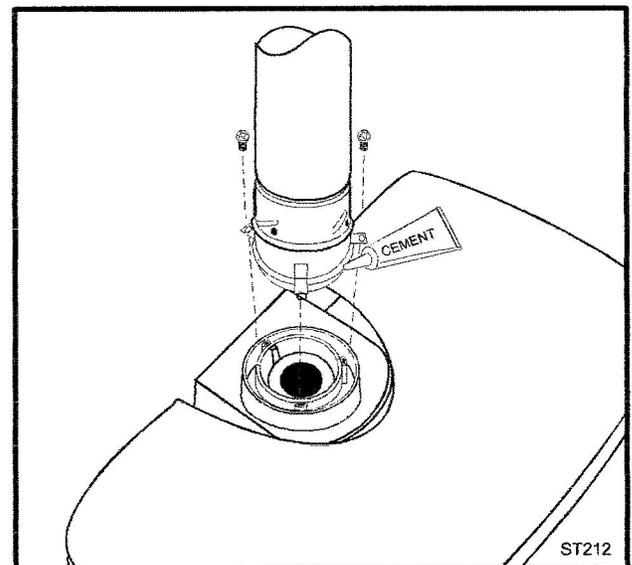


Fig. 25 Attach inner assembly to flue collar.

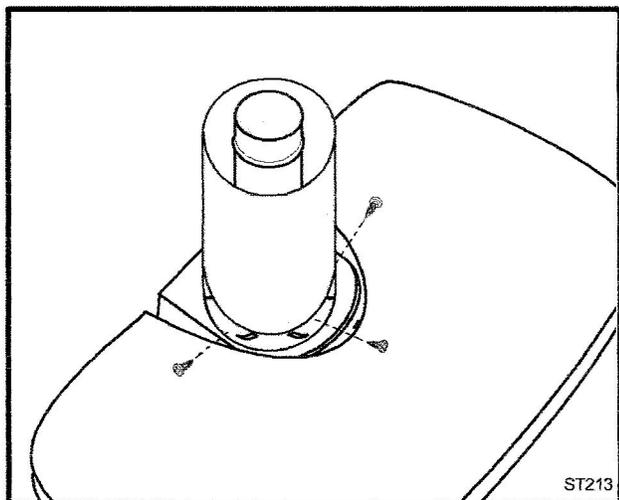


Fig. 26 Fasten outer pipe with #12 x 1/2" sheet metal screw.

Install the Vent Adapter Pipe

(Simpson Dura-Vent Components)

1. **Install the Restrictor Plate.** Consult the 'Vent Run Specifications' on page 8 to determine whether the restrictor plate is needed. If so, put the restrictor plate in place within the inner flue collar as shown in Figure 23.
2. **Discard the inner starter pipe** shipped with the logset. Using the starter pipe assembly listed on page 7, slide the inner section out to allow access.
 - Run a bead of sealant around the bottom end of the starter pipe and attach the assembly to the stove using three 1/4-20 x 3/8" Phillips screws provided in the parts bag. (Fig. 27)
3. **Install the Outer Adapter Pipe.** Apply a 1/4" bead of cement around the outside surface, about one inch from the crimped end. (Fig. 28) Orient the vertical seam to the rear, and insert the crimped end of the outer pipe into the flue collar. Fasten with three sheet metal screws provided.

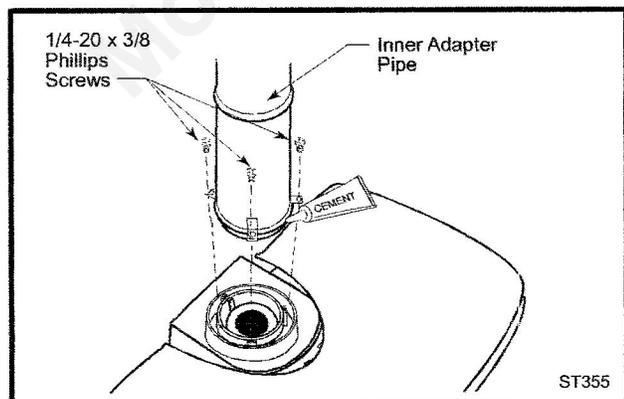


Fig. 27 Simpson Dura-Vent - install inner adapter pipe.

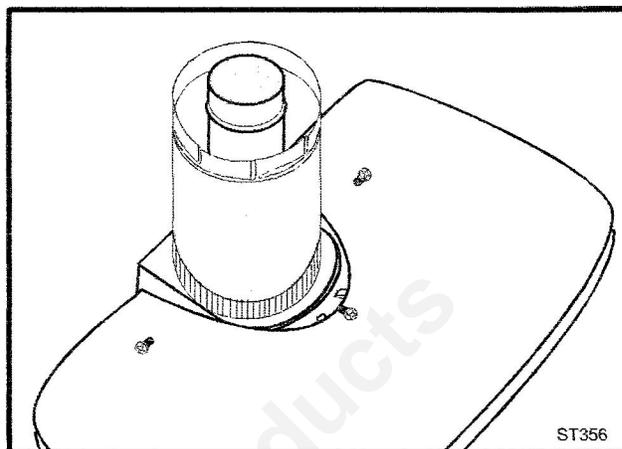


Fig. 28 Simpson Dura-Vent - install outer adapter pipe.

Side Wall Termination Assembly

1. Locate the vent opening on the wall. Refer to Figure 4, Page 6, to determine the opening centerline. It may be necessary to first position the stove and measure to find the hole location. Depending on whether the wall is made of combustible materials, cut the opening to the size shown in Figure 29. Combustible wall openings must be framed as shown in Figure 29.

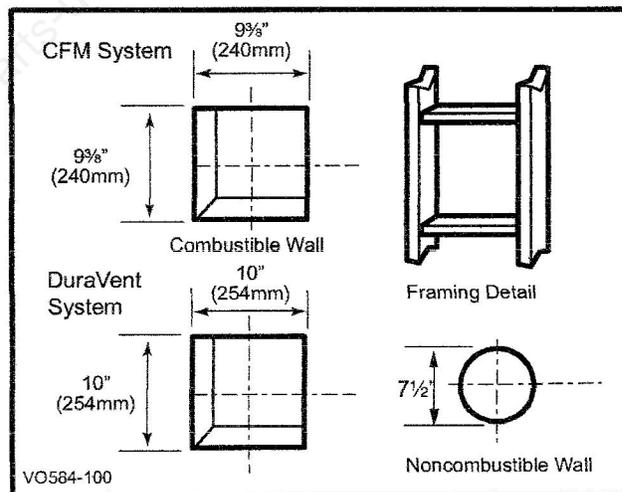


Fig. 29 Locate vent opening.

2. Measure the wall thickness and cut the wall sleeve sections to proper length (**MAXIMUM 12"**). Assemble the sleeve with the #8 sheet metal screws supplied. Attach the firestop plate to the sleeve end with the holes. (Fig. 30) **NOTE:** The wall sleeve is required in combustible walls only.
3. Install the Wall Firestop/Sleeve assembly into the wall cutout and fasten the firestop to the wall cutout framing members. (Fig. 30)

10. For both CFM and DuraVent Systems: Install the vent terminal. (Fig. 34) Apply high temperature sealant one inch from the ends of the inner and outer collars. Guide the inner and outer vent termination collars into the adjacent pipes. Double check that the vent pipes overlap the collars by 2". Fasten the termination to the wall with the screws provided, and caulk the joint with weatherproof sealant.

11. For CFM only: Install Charcoal Gray Pipe Rings (#7FSDRG) or Polished Brass Pipe Rings (#7FSDRP) at pipe joints, if desired.

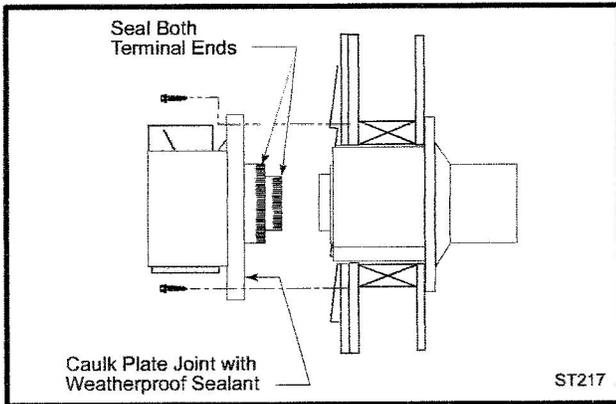


Fig. 34 Install the vent terminal.

Vent Termination Below Grade

Install Snorkel Kit #7FSDVSKS when it is not possible to meet the required vent termination clearances of 12" (305mm) above grade level. The snorkel kit will allow installation depth of down to 7" (178mm) 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.** (Fig. 35)

NOTE: Be sure to maintain side wall clearances and vent run restrictions. Refer to Figures 5, 6, 7, and 8.

1. Establish the vent hole through the wall.
2. Remove soil to a depth of approximately 16" (400mm) below the base of the snorkel. Install a window well (not supplied). Refill the hole with 12" (305mm) of coarse gravel and maintain a clearance of at least 4" (100mm) below the snorkel. (Fig. 35)
3. Install the vent system as described on pages 15-18.
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.
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. (Fig. 36)

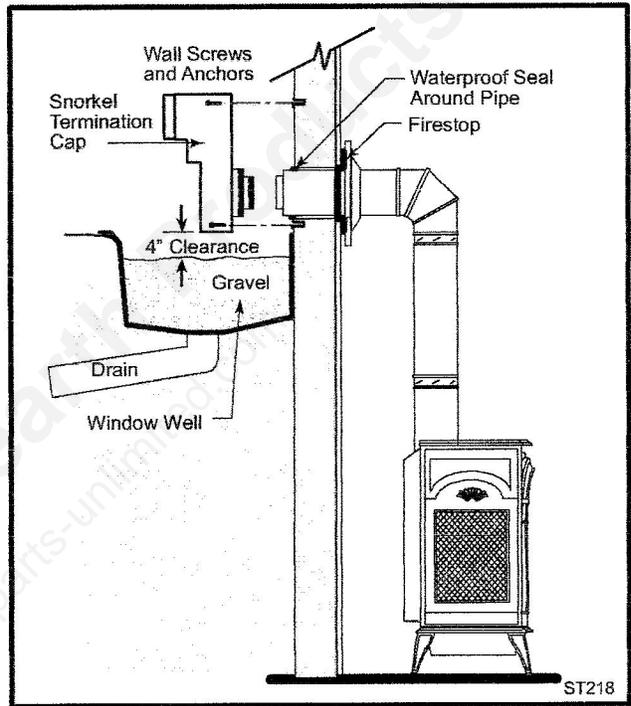


Fig. 35 Snorkel kit installation.

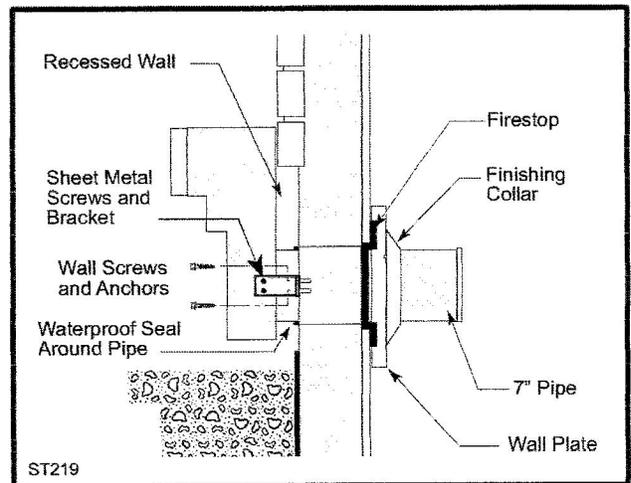


Fig. 36 Use extension brackets to mount snorkel against recessed wall.

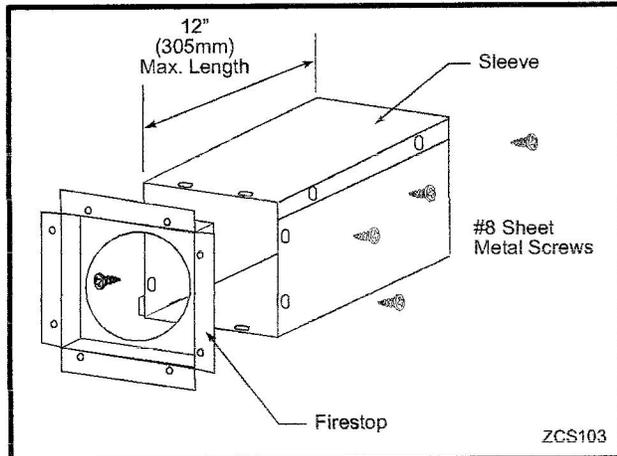


Fig. 30 Assemble the wall sleeve and firestop.

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

Install 90° elbow. Twist lock as before.

Slide the wall plate over horizontal run before attaching the horizontal run to the elbow. Fasten wall plate to wall.

4. For CFM Vent Pipe only: If necessary, measure to determine the vertical length (X) of pipe required from the adapter pipe to the wall cutout centerline, including a 2" overlap at the joint. (Fig. 31) use a hacksaw or tin snips to trim the pipe as needed.

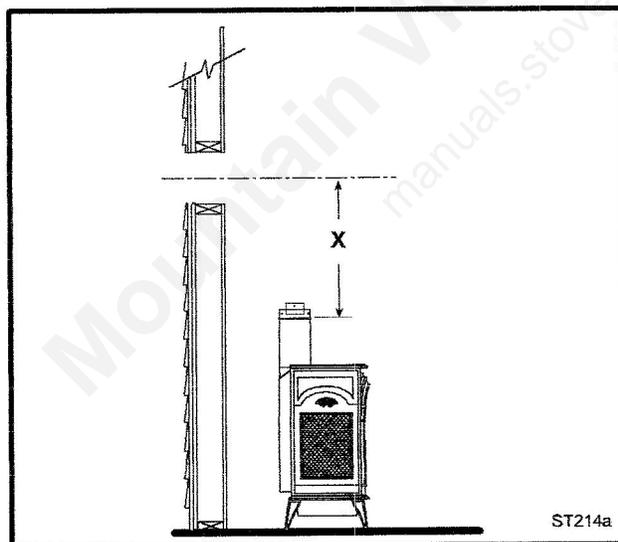


Fig. 31 Determine the vertical pipe length.

5. Install first the inner then the outer straight pipe section(s), trimmed end down, to the point of the elbow. Drill 3 holes through each joint and fasten with sheet metal screws.
6. Seal and install the elbow using 3 sheet metal screws at each joint.
7. Measure, and cut if needed, the appropriate length of pipe section needed to make the connection through the wall. Include a 2" overlap; i.e. from the elbow to the outside wall face, about 2" or the distance required if installing a second 90° elbow. (Fig. 32)
8. Slip the wall plate and trim collar over the interior end of the horizontal pipe and install into the wall sleeve. Seal the joint inside the wall plate if needed to keep cold air from being drawn into the home.
9. Seal the ends and connect the horizontal pipe to the elbow. Fasten the wall plate to the pipe with three sheet metal screws. Slide the trim collar up against the wall plate to cover the screws. (Fig. 33)

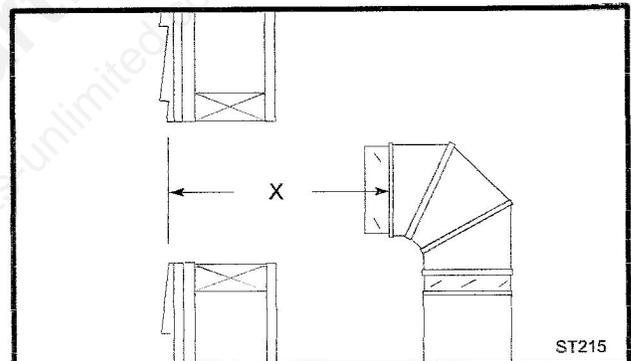


Fig. 32 Measure the horizontal length.

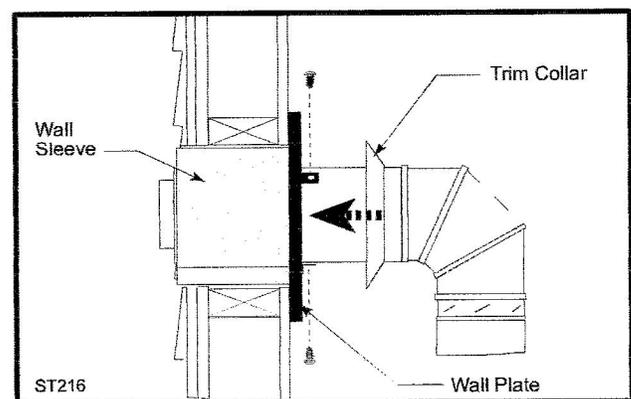


Fig. 33 Install the horizontal pipe and wall plate parts.

Vertical (Through the Roof) Vent Assembly

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

Make certain the vent system conforms to all other requirements for vertical termination as specified on Page 8.

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

1. Locate the final position of the stove, observing all clearances for both the vent and the stove.
2. Plumb to the center of the inner (4") flue collar from the ceiling above, and mark that location.
3. **Cut the opening:**
CFM System: 9 $\frac{3}{8}$ " x 9 $\frac{3}{8}$ " (240mm x 240mm)
DuraVent System: 10" x 10" (254mm x 254mm)
4. Plumb any additional opening through the roof or other construction that may be needed. In all cases, the opening must provide a minimum of 1" (25mm) clearance to the vent pipe.
5. Place the stove in its final position.
6. Install firestop(s) #7DVFS and Attic Insulation Shield #7DVAIS as needed. (Fig. 37) If there is a room above ceiling level, a firestop must be installed on both the bottom and top sides of the ceiling joists. If an attic is above ceiling level, an attic insulation shield must be installed.
7. Install the appropriate roof support and flashing, making certain that the upper flange of the flashing base is below the shingles. (Fig. 38)
8. Install appropriate pipe sections until the vent run reaches above the flashing. The enlarged ends of the vent sections always face downward.
9. Install the storm collar and seal around the joints. (Fig. 38)
10. Add additional vent lengths to achieve the proper overall height.
11. Apply cement to the inner and outer termination collars and install the terminal cap.

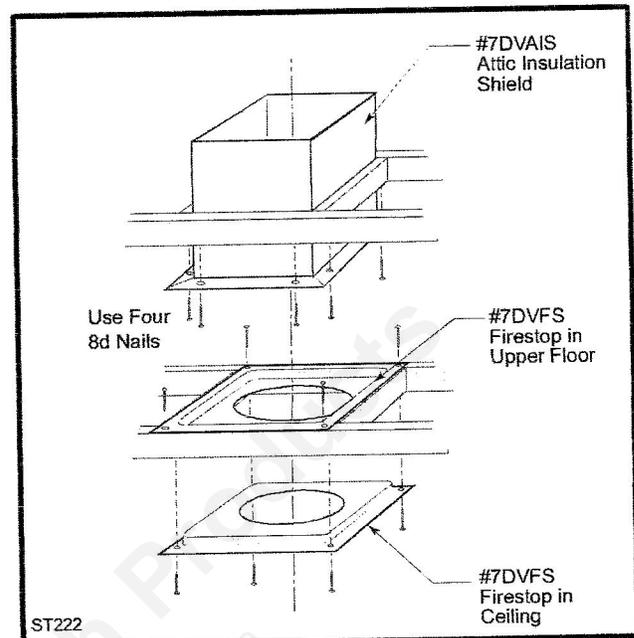


Fig. 37 Install firestops and attic insulation shield.

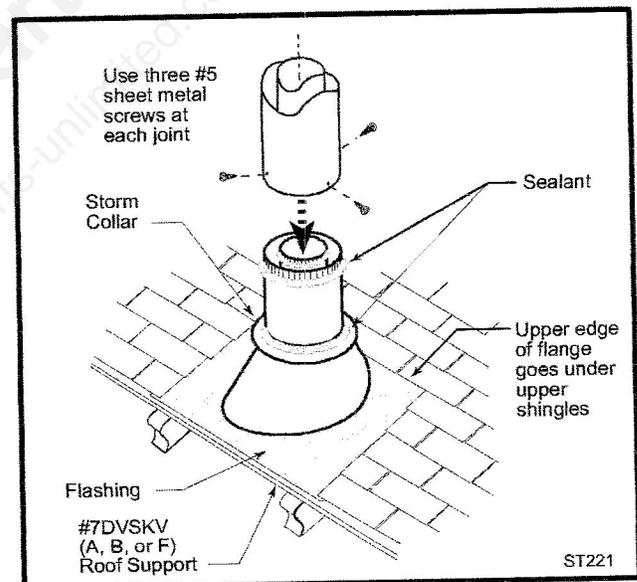


Fig. 38 Roof support and flashing.

Venting System Assembly - Natural Vent

General Information

The Stardance Heater is shipped from the factory as a Direct Vent Heater. It may be converted to a Natural Vent heater by installing the Vermont Castings Model Z31D00 FSDHAG Draft Hood Adapter.

The Stardance Heater is approved for installation as a Natural Vent. CFM Direct Vent pipe could be used directly after the Draft Hood Adapter up to the ceiling, then B-vent pipe must be used. Do not mix types of B-vent pipe; use components from one maker or the other. Follow the vent component maker's instructions exactly. The heater will also accept standard or enamelled 7" (150mm) diameter pipe, around the Type B venting, for decorative purposes only. (Fig. 39)

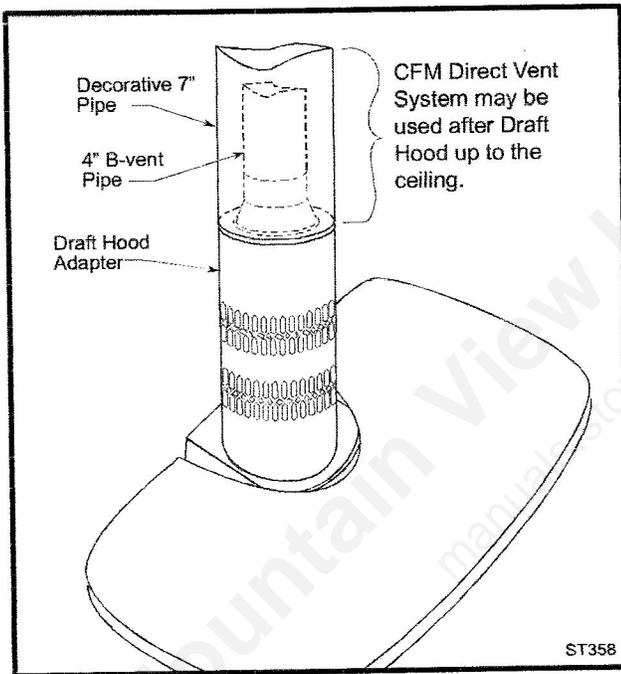


Fig. 39 Decorative 7" pipe may be fitted around the B-vent pipe.

The Stardance stove, when installed as a Natural vent heater, includes a vent safety switch. (Fig. 74 , Page 38) Operating the stove when it is not connected to a properly installed and maintained venting system, or tampering with or disconnecting the vent safety switch, can result in carbon monoxide (CO) poisoning and possible death.

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

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

Install the Vent Pipe

Apply a bead of sealant around bottom end of inner starter pipe (found in bag with logset) and attach to stove. Apply a bead of sealant around top of inner starter pipe and install the Z31D00 FSDHAG Draft Hood according to Draft Hood instructions. (Fig. 40)

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

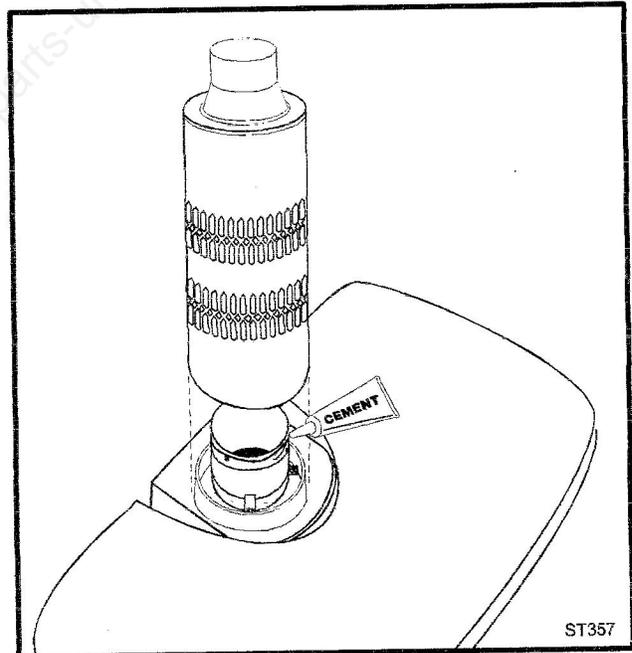


Fig. 40 Install draft hood adapter.

Install the Log Set

1. Remove the logs from their packaging, and inspect each piece for damage. **DO NOT INSTALL DAMAGED LOGS.**
2. Install the rear log centering it side to side on the sheet metal shelf at the back of the firebox. (Fig. 41) The log will touch both sides and the back wall of the firebox.
3. Install the right log by engaging hole on bottom with pin on the rear log. (Fig. 41) Then set right bottom side on the burner so the edge of the log touches the right side of the firebox. The right log does not use the locator pins on the burner to stay in place.
4. Install the left log by engaging hole on bottom with pin on rear log. (Fig. 41) Then set left bottom side on the burner so the edge of the log touches the left side of the firebox.
5. Loosely sprinkle the lava rocks directly on top of the burner in front of and between the decorative grate and the right and left logs. Use the lava rock to cover brackets on the burner. (Fig. 42)

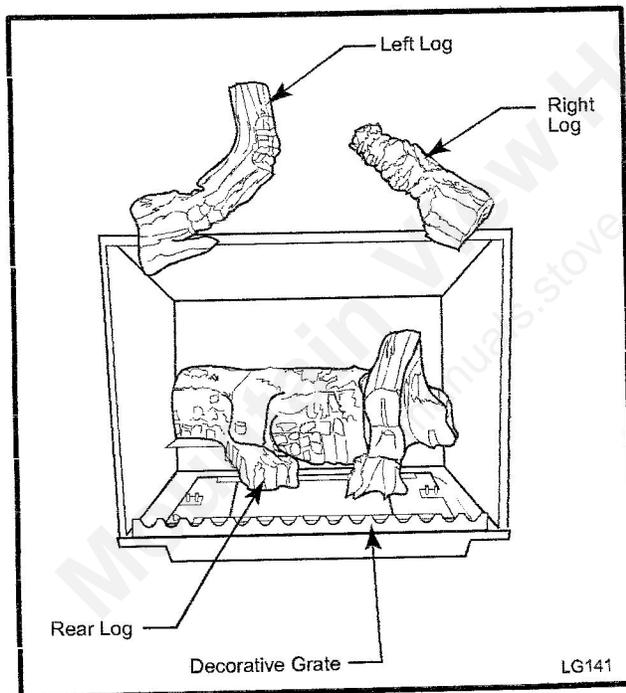


Fig. 41 Install the back, left and right logs.

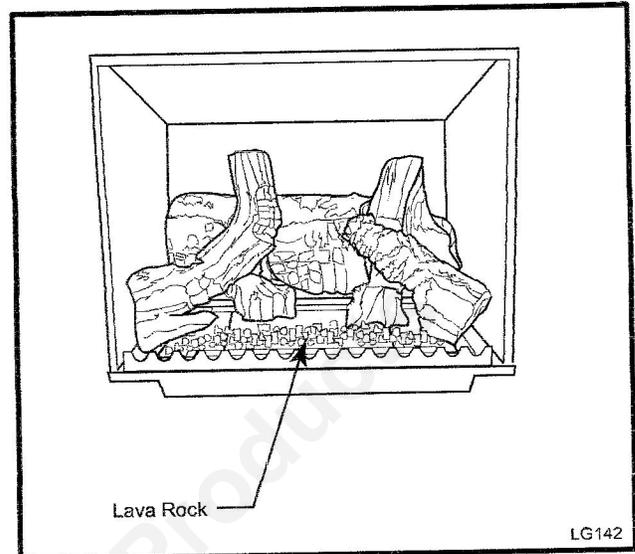


Fig. 42 Completed log installation.

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 on page 40.

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 3/8" NPT on the valve side and 3/8" or 1/2" natural gas supply line with an input of 28,000 BTUs at a manifold pressure of 3.5" and minimum inlet supply for adjustment of 7.0" w.c.

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

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

In Canada; consult the local authority and CAN/CGA-B149.1 installation code.

Connect the gas supply and test for leaks. Use a 50/50 solution of liquid soap and water to test for leaks at gas fittings and joints. Apply water/soap solution with brush only - *do not over apply*. **NEVER test with an open flame**. Light the pilot according to the directions on page 30, before going to the next step.

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 LP to Natural Gas use Kit #000-5021. To convert from Natural Gas to LP use Kit #000-5022.

Conversion instructions are provided with each kit and beginning on Page 24 in this manual.

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

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

In order to connect Natural Gas, use a fitting with 3/8" NPT on the valve side and 3/8" or 1/2" natural gas supply line with an input of 28,000 BTUs at a manifold pressure of 3.5" and minimum inlet supply for adjustment of 7.0" w.c.

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

Air Shutter Adjustment

The Stardance is shipped from the factory with the air shutter fully open. The stove is tested and certified to accept an air shutter adjustment. For some high altitude installations, an air shutter adjustment is recommended in order to enhance flame color appearance.

The air shutter is designed to keep the front injector air inlet fully open to maintain radiant area. The rear injector air inlet is designed to close. The air shutter on the rear injector air inlet could be adjusted from fully open to a 1/2" opening.

NOTE: When the air shutter is adjusted refer to Table 1 for minimum rear injector air inlet openings. (Figs. 45 & 46)

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

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

Air Shutter Adjustment Instructions

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

1. Remove stove front. Lift stove front up and then swing bottom out and away to disengage from the stove body. (Fig. 43)
2. Swing open the swiveling latches at the top left and right corners of the glass frame. (Fig. 14, Page 12)

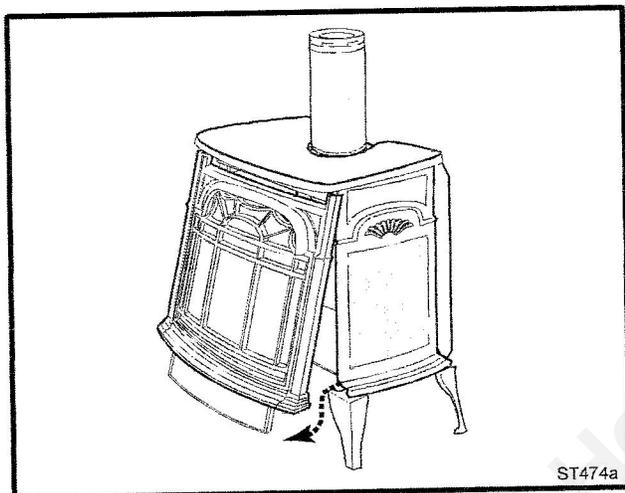


Fig. 43 Remove stove front.

3. Pull the top edge of the glass and frame assembly away from the firebox, and lift it off its supports on the bottom of the firebox face. Place the assembly out of the way on a flat, padded surface such as a counter protected by a towel.
4. Take the logset out of the firebox if previously installed.
5. Remove the rear log bracket by unfastening the screw. (Fig. 44)
6. Remove the right and left log bracket assembly by unfastening the two screws which hold the burner in place. (Fig. 44)

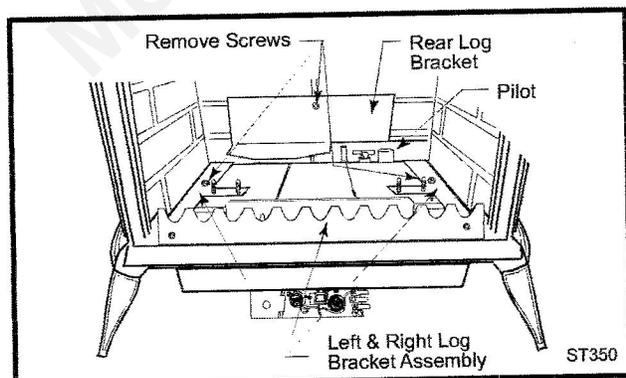


Fig. 44 Remove rear log bracket and left and right log bracket assembly.

7. Hold the burner at the right hand side and lift to clear the right burner leg. Then pull to the right to clear the injectors on the left hand side.
8. The air shutter is located on the bottom of the burner to the left. (Fig. 42) Unfasten the two nuts holding the shutter in place. The shutter is shipped backwards to allow the fully open position. Reassemble the shutter to allow the rear injector air inlet to close from fully open to a minimum 1/2" opening. See Table 1 for rear injector air inlet minimum openings. (Fig. 46) You may have to try more than once to find the correct air shutter opening for best results depending on your altitude.

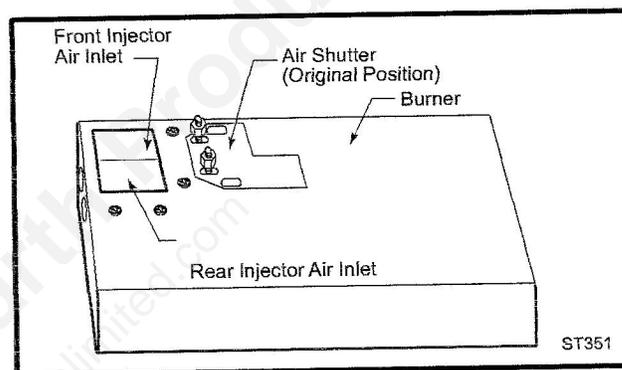


Fig. 45 Air shutter in original from-the-factory position.

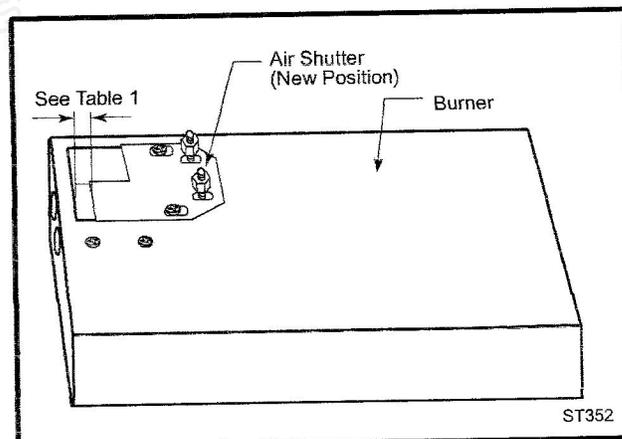


Fig. 46 Air shutter in new position.

9. Refasten the two nuts and assemble the burner into the unit by sliding the burner in at an angle with the left side lower than the right side. Slide the left side onto the injectors. Lower the right hand side down into place. Make sure the burner is as far left as possible and the injector shoulders are inside the burner. **NOTE:** It is very critical to keep the left burner leg, which holds the injectors, at a 90° angle to the base. (Fig. 47) This keeps the orifices aligned with tubes on the inside of the burner. Failure to do so could affect the flame appearance and performance of the unit.

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

Follow lighting instructions on page 30. Check flame color appearance. **NOTE:** Allow stove to burn for at least 1/2 hour to establish full flame color.

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

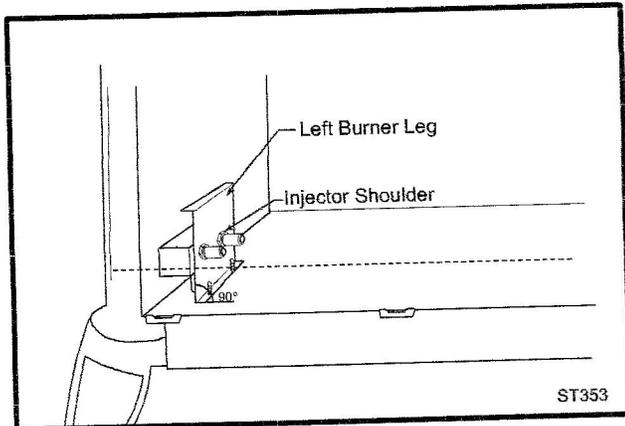


Fig. 47 Be sure to maintain 90° angle at left burner leg.

Fuel Conversion Instructions

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

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

Avertissement: Cette trousse de conversion ne doit être installée que par le représentant d'un organisme qualifié et conformément aux instructions du fabricant et aux codes et exigences pertinentes de l'autorité compétente. Quiconque ne respecte pas à la lettre les instructions du présent guide risque de déclencher un incendie, une explosion ou le dégagement de monoxyde de carbone entraînant des dommages matériels, des lésions corporelles ou la perte de vies humaines. L'organisme qualifié qui effectue les travaux est responsable de l'installation de cette trousse. L'installation n'est pas terminée tant que le fonctionnement de l'appareil converti n'a pas été vérifié selon la notice du fabricant qui accompagne la trousse.

ATTENTION: Avant d'effectuer la conversion, coupez d'abord l'alimentation en gaz, ensuite, coupez l'alimentation électrique.

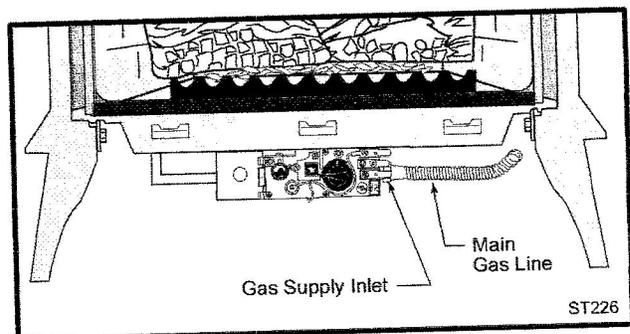


Fig. 48 Attach the gas line to the left side of the valve.

Conversion Precautions

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

Conversion Procedure

1. Remove stove front. Lift stove front up and then swing bottom out and away to disengage from the stove body. (Fig. 58, Page 27)
2. Swing open the swiveling latches at the top left and right corners of the glass frame. (Fig. 14, Page 12)
3. Pull the top edge of the glass and frame assembly away from the firebox face. Place the assembly out of the way on a flat, padded surface such as a counter protected by a towel.
4. Remove the logset from the firebox.
5. Remove the rear log bracket by unfastening the screw. (Fig. 49)
6. Remove the right and left log bracket assembly by unfastening the two screws which hold the burner in place. (Fig. 49)

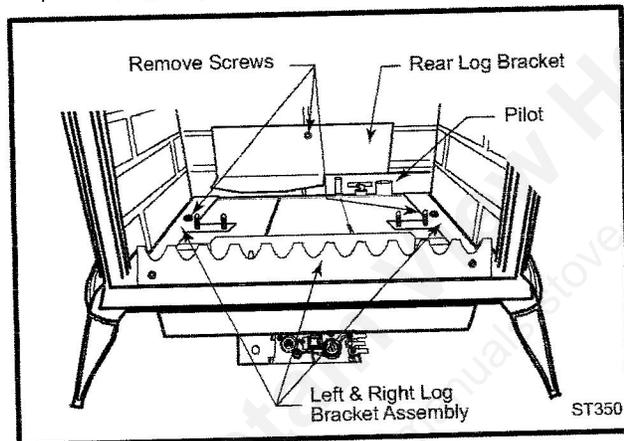


Fig. 49 Remove rear log bracket and left and right log bracket assembly.

7. Hold the burner at the right hand side and lift to clear the right burner leg. Then pull to the right to clear the injectors on the left hand side.
8. Remove injector orifices from left burner leg using 1/2" wrench. (Fig. 55)
9. Install conversion orifices. (Refer to Table 2)

Models 3070, 3071 (R Models) Only

10. Remove cap from Hi-Lo knob. This can be accomplished by lifting the plastic cap off the screw. (Fig. 50)
11. Remove the screw from center of Hi-Lo knob with small screwdriver turning counterclockwise. (Fig. 50)
12. Insert blue painted screw when converting to natural gas and red painted screw when converting to LP.

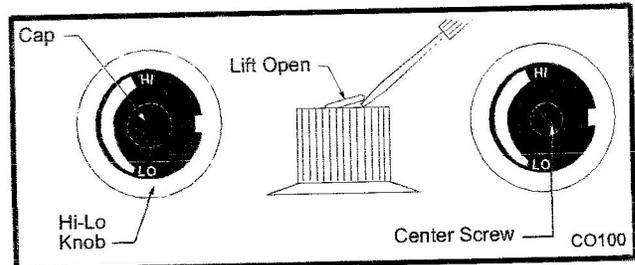


Fig. 50 Remove center screw from Hi-Lo knob.

13. Tighten screw (do not over tighten), replace cap.
14. Locate pilot. (Fig. 49)
15. Replace pilot orifice.

Pilot Type 1

- Remove pilot hood by lifting up. (Fig. 51) **NOTE:** It is not necessary to remove the pilot tube for conversion.
- Remove pilot orifice with allen wrench. (Fig. 52)
- Install the conversion orifice.
- Reinstall pilot hood. Be sure to align hood with index tab.

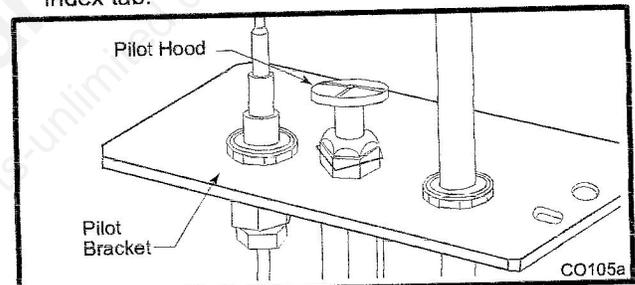


Fig. 51 Remove pilot hood.

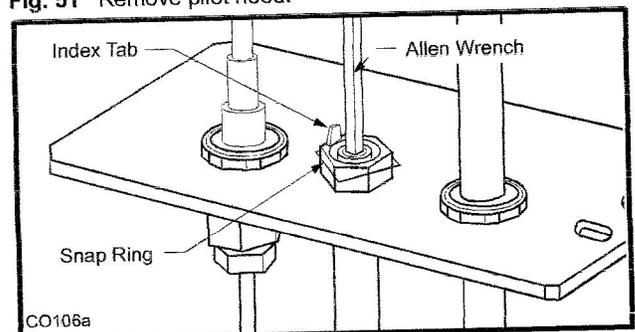


Fig. 52 Remove pilot orifice.

Pilot type 2

- Loosen pilot hood turning counterclockwise using a 7/16" wrench. (Fig. 53)
- Remove pilot orifice with needlenose pliers. (Fig. 54)
- Install the conversion orifice.
- Reinstall pilot hood and tighten until mark on pilot hood aligns with mark on pilot bracket.

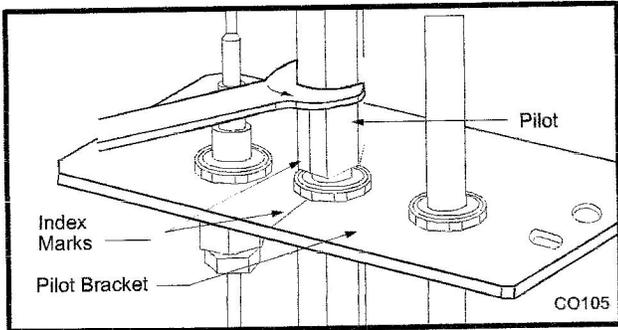


Fig. 53 Remove pilot hood. (Your pilot may have a different appearance.)

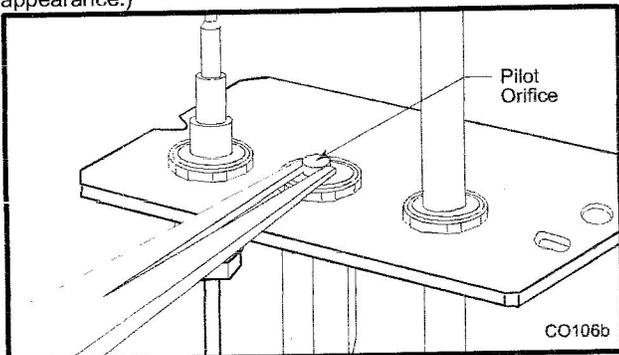


Fig. 54 Remove pilot orifice.

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

Models 3072, 3073 (RF Models) Only

16. Follow procedure for pilot type 2 to replace pilot orifice.
17. Remove and replace plug on right hand side of the PC board; Red for LP and Blue for NG. (Fig. 66, Page 31)
18. Remove motor top cap. Depress and turn center plunger until arrow points to correct screw. Red for LP and Blue for NG. **NOTE:** Plunger will "snap" into NG position when arrow is close to blue screw. It will not "snap" at LP position. (Fig. 54a)
19. Replace motor top cap.

All Models

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

NOTE: It is very critical to keep the left burner leg, which holds the injectors, at a 90° angle to the base. (Fig. 55) This keeps the orifices aligned with the tubes inside burner. Failure to do so could affect the flame appearance and performance of the unit.

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

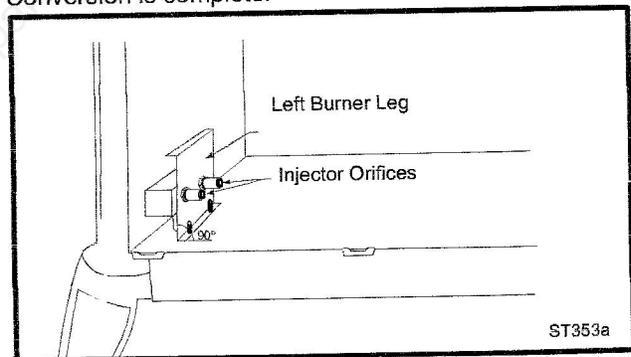


Fig. 55 Remove and replace injector orifices.

| Table 2. Injector Orifice Size Matrix | | | | | | |
|---------------------------------------|-------------|----------|-------------|---------------|---------|---------|
| Conversion to Natural Gas | | | | Input (BTU/h) | | |
| Kit # | Front | Part # | Rear | Part # | Minimum | Maximum |
| 000-5021 | #54 / .055" | 30000514 | #43 / .089" | 30000512 | 19,000 | 28,000 |
| 000-5011 | | | | | | |
| Conversion to LP | | | | Input (BTU/h) | | |
| Kit # | Front | Part # | Rear | Part # | Minimum | Maximum |
| 000-5022 | #68 / .031" | 30000694 | #54 / .055" | 30000514 | 20,000 | 28,000 |
| 000-5012 | | | | | | |

Complete the Assembly

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

Install ON/OFF Switch

The switch assembly parts are found in the parts bag.

1. Attach switch assembly to left rear side of stove shroud (when facing shroud) using two screws and existing holes in shroud. (Fig. 56)
2. Run wires down back of stove, under bottom of rear shroud to valve.
3. Attach wires to valve terminals. (Fig. 57)

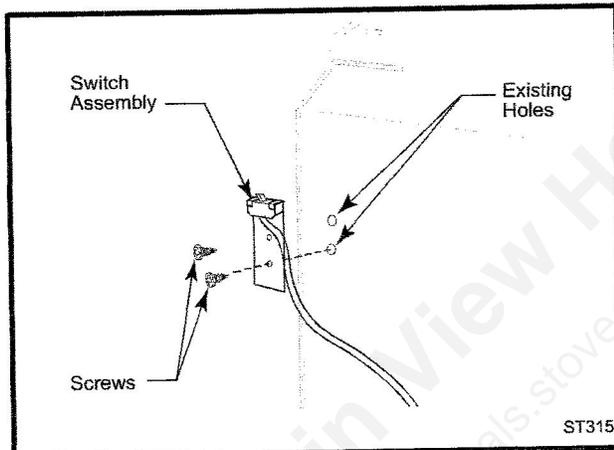


Fig. 56 Attach switch assembly to rear shroud.

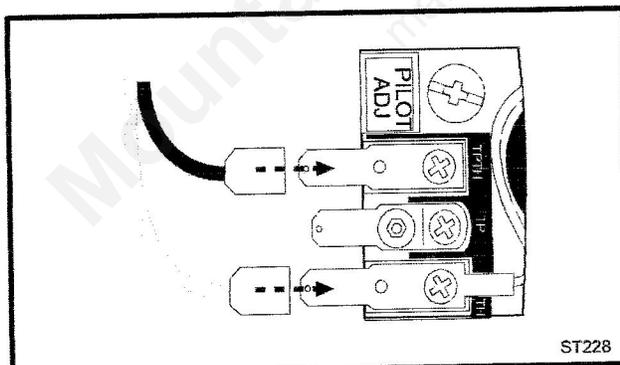


Fig. 57 Attach switch wires to valve.

Thermostat Connection (optional)

Use only a thermostat rated for 500 millivolts.

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

| Thermostat Wire / Gauge | Maximum Run |
|-------------------------|-------------|
| 18 | 40 feet |
| 20 | 25 feet |
| 22 | 16 feet |

1. Install the wall thermostat in the desired location and run the wires to the stove location. Terminate these leads with 1/4" spade connectors.
2. Connect the thermostat wires to the valve. (Fig. 57)

Install the Front and Top Plates

The Stardance stove is available with either a solid front plate or operable doors front plate. The front plates are installed in the same manner.

1. Hold the front plate by the window bars and lift it into position, engaging the two steel tabs on the top corners behind the adjacent bosses in the side plates. (Fig. 59) Then seat the Front against the sides so the tabs at the bottom lip engage with the notches in the stove legs. When properly installed, the bottom of the Front Plate cannot be pulled away from the sides without also lifting it.
2. Place the top plate over the sides and front. The upper edges of the side plate should seat into the channel in the underside of the top. (Fig. 58)

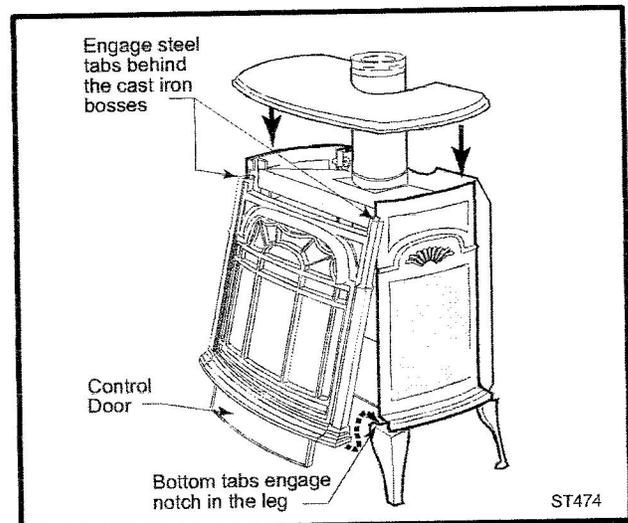


Fig. 58 Install the front plate.

This completes assembly of the Stardance stove.

Operation

The Stardance may be operated with the solid front plate in place or with the operable door front plate in place with the doors open or closed. To open the front doors, insert the handle into the door latch stub and turn it to the left and up. (Fig. 59) When not in use, the handle may be stored in the handle holder on the right side of the rear shroud. (Fig. 60)

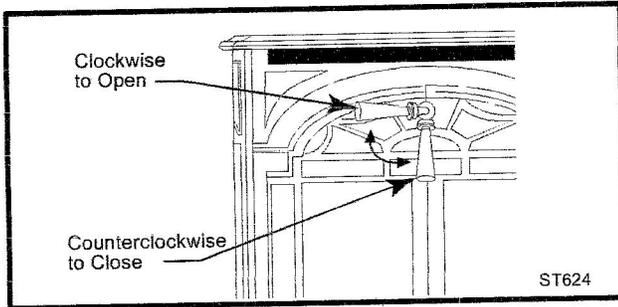


Fig. 59 To open the front doors, turn handle clockwise.

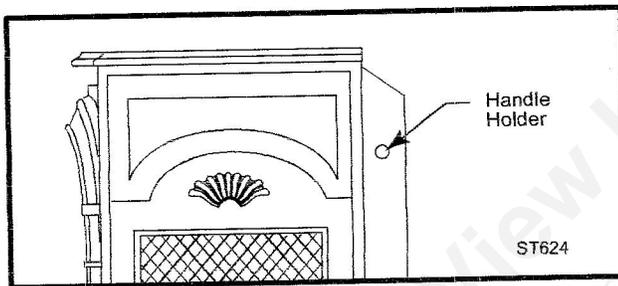


Fig. 60 When not in use, store handle in the handle holder.

Your First Fire

Read these instructions carefully and familiarize yourself with the burner controls shown in Figure 65. Locate the pilot assembly, Figure 61. Follow the lighting instructions on Page 30 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 an hour or so, however, you can open a window to provide fresh air to alleviate the condition.

Pilot and Burner Inspection

Each time you light your heater check that the pilot flame and burner flame patterns are as shown in Figure 62 or Figure 63 and Figure 64. 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 on Page 36.

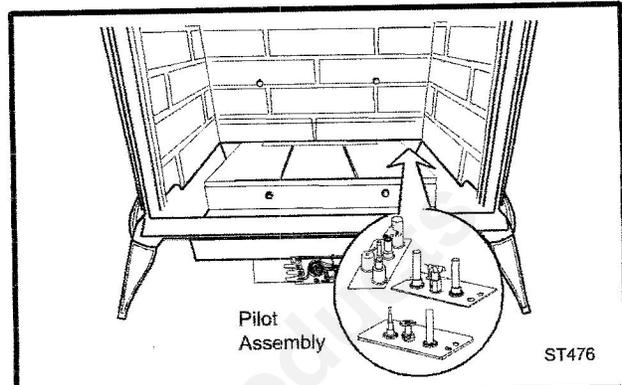


Fig. 61 Pilot Assembly location.

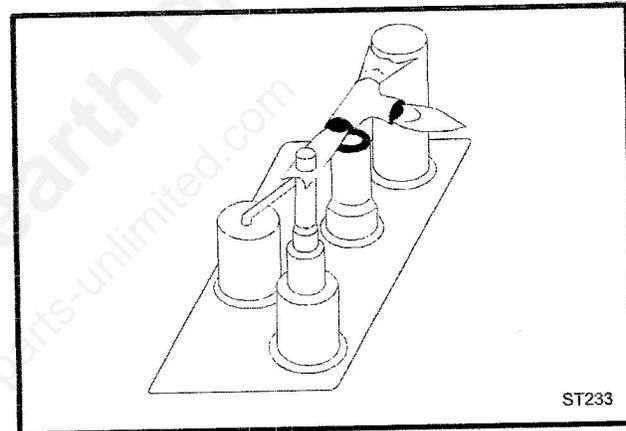


Fig. 62 Correct pilot flame pattern. PSE Pilot.

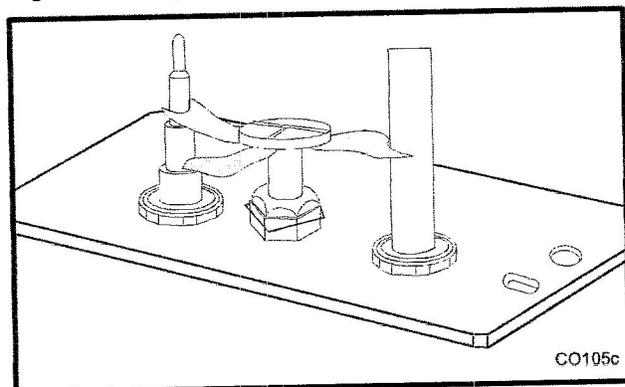


Fig. 63 Correct pilot flame pattern. SIT pilot.

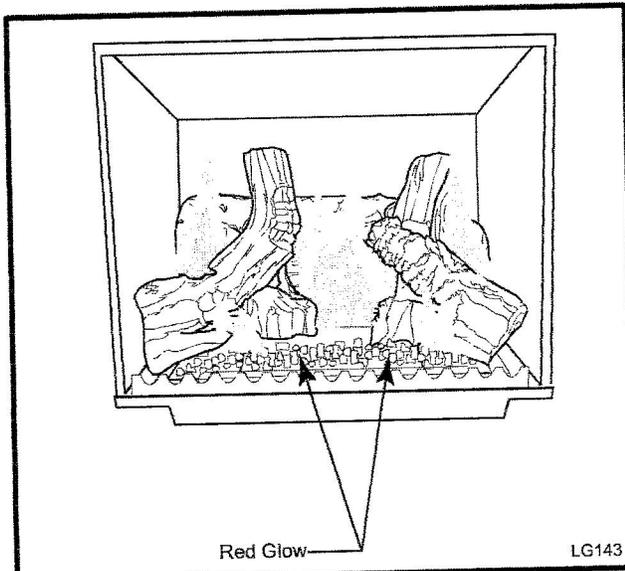


Fig. 64 Correct burner flame pattern.

Lighting the Fire

The control valve is equipped with a variable regulator that lets you adjust the gas input rate. To gain access to the gas control valve, swing open the valve control Access Door below the firebox opening.

1. Turn the wall thermostat, if any, to its lowest setting.
2. If the pilot is already lit, proceed to "Relighting the Fire" below.

Remove the stove front and the glass panel as shown on page 31. Wait fifteen (15) minutes to clear out any residual gas before trying to light the pilot. Before lighting the pilot, make sure the valve knob is in the OFF position by pushing in the gas control knob slightly and turning it clockwise to "OFF." Also, put the ON/OFF remote rocker switch, located at the rear of the appliance, in the OFF position.

3. Turn the Regulator Control Knob to HI. (Fig. 65). Smell for gas. Inspect the unit for any obvious sign of damage or deterioration. If it is damaged, do not attempt to light the pilot or burner.

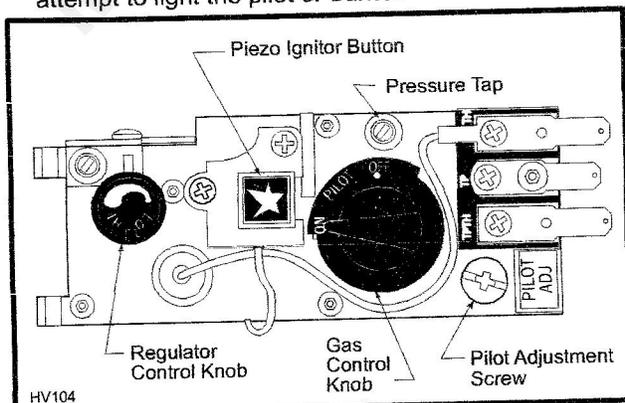


Fig. 65 Valve controls.

5. Locate the pilot in the right rear corner of the firebox under the rear log. When lit, the pilot will produce a small steady flame.
6. Turn the knob on the gas control counterclockwise to "PILOT."
7. Light the pilot by pushing the control knob all the way in and holding it there. Immediately push the piezo ignitor button; push it more than once if required to light the pilot. The ignitor produces a small spark at the pilot assembly. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Then, release the knob and it will pop back up. The pilot should remain lit.
NOTE: Once the pilot has been lit, it will remain lit continuously. Replace the glass and the front panel.
8. Turn the gas control knob counterclockwise to "ON."
9. Place the ON/OFF rocker switch in the ON position and continue to watch the fire until the entire unit is lit. Adjust the Regulator Control Knob to maintain the desired level flame intensity.
10. Adjust the wall thermostat, if any, to your desired heat level.

CAUTION



If the entire fire is not lit within five (5) seconds of turning the remote rocker switch ON, immediately push the remote rocker switch to OFF. Allow fifteen (15) minutes for the gas to clear from the firebox. Repeat from Step 2.

If unsuccessful, completely turn off all gas to the unit. Call your local Dealer.

WARNING



Do not attempt to decrease the gas flow to the stove by closing the manual gas supply valve. A hazardous condition may result when operating or attempting to operate the stove if this valve is in a position other than fully open.

Turning Off the Fire

Simply push the rocker switch OFF. The pilot will remain on. You can leave the pilot running.

NOTE: If you do not intend to operate the unit for an extended period of time, it is a good idea to turn the gas control knob to OFF and to turn the manual gas valve on the supply line to OFF as well.

Re-lighting the Fire

1. Check to see if the pilot is on.
2. Turn the remote rocker switch to ON and watch to be sure the entire burner lights.

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE

- A. This appliance has a pilot. When lighting the pilot, follow these instructions exactly.
 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:

- Shut off all gas to the appliance.
- Do not try to light any gas 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 turn the gas control knob. Never use tools. If the knob will not 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 that has been under water.

LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information above.
2. Turn off all electric power to the appliance.
3. Turn the thermostat to the lowest setting (if applicable).
4. Place the OFF/ON switch to the OFF position.
5. Push in gas control knob slightly and turn clockwise to "OFF".

NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

6. Wait fifteen (15) minutes to clear out any gas. If you then smell gas, **STOP!** Follow "B" in the safety information above. If you do not smell gas, go to the next step.

7. Turn knob on gas control counterclockwise to "PILOT".

8. Find pilot. The pilot is located below the rear log in the back right corner of the firebox.

9. Push in control knob all the way and hold in. Immediately light the pilot by pushing the ignitor button.

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 9.

If knob does not pop up when released, stop and immediately call your service technician or gas supplier.

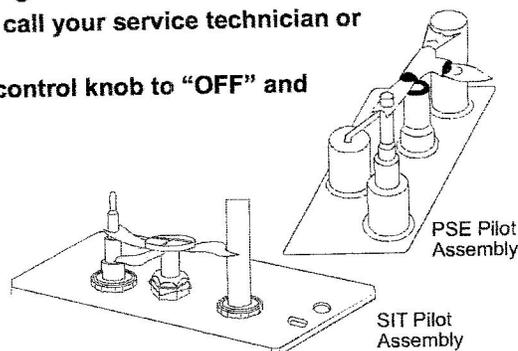
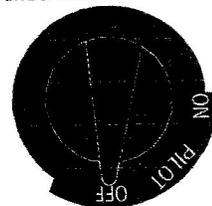
If the pilot will not stay lit after several attempts, turn the gas control knob to "OFF" and call your service technician or gas supplier.

10. Turn gas control knob counterclockwise to "ON".

11. Place the OFF/ON switch in the ON position.

12. Turn on all electric power to the appliance.

Control Knob



TO TURN OFF GAS TO APPLIANCE

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

NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

Instructions for RF Comfort Control Valve

The Comfort Control valve allows remote control of temperature, fan and flame appearance.

NOTE: The antenna should hang in free air away from grounded metal.

Operation

1. If the manual switch is in remote position, switch it to LOCAL. (Fig. 65)
2. Turn the pilotstat knob counterclockwise from OFF to the PILOT position, push the knob down, and hold in position. The pilot valve opens and allows gas to flow to the pilot burner.
3. Push plunger on the piezo until the pilot burner is lit. When the pilot burner is lit, the LED on the control will come on after approximately 40 seconds and will provide 1 short blink continuously in the normal mode. When the light turns off which will be approximately 10 seconds after it has been continuously red, the receiver/valve is fully powered.

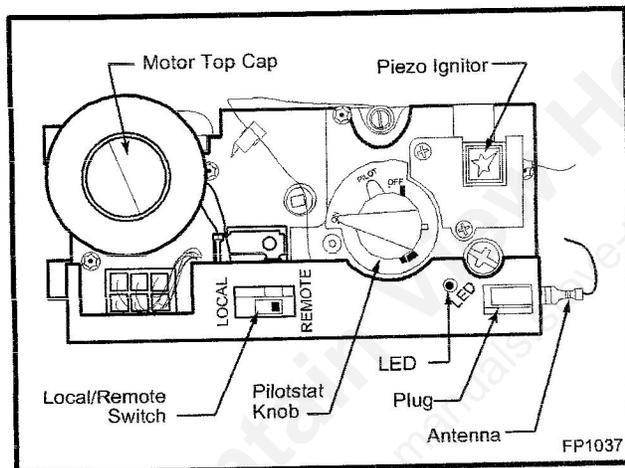


Fig. 66 Comfort control valve.

4. Release the knob. The shaft will move upward. The pilot burner should now stay burning. If the pilot burner goes out, repeat step 2.
5. Turn the knob counterclockwise to the ON position. If the manual switch is in the LOCAL position, the main burner will turn on immediately.
6. ON the initial use of a transmitter, a recognition operation is required between the receiver/valve and transmitter. Change the switch from LOCAL to REMOTE. Press the fan or flame button on the transmitter within 30 seconds. The LED will blink indicating the transmitter will now work with the receiver/valve. If the switch continues in the REMOTE position, the transmitter will now control the main valve, flame modulation level and fan control.

7. If the manual switch is in the LOCAL position, the valve will be at the highest fixed pressure setting and the fan will be at the highest fixed speed. The transmitter will control the fan only.

Shut Off Procedure

If the manual switch is in the REMOTE position, the transmitter can shut off the main burner and fan. However, the control is still on and a command from the transmitter can turn on the main burner or fan.

To shut off the system, turn the pilotstat knob clockwise to the OFF position. This action closes the main gas and safety valves. The transmitter cannot turn on the main burner or fan.

Transmitter Operation

Off Mode

In the OFF mode, the fireplace flame and fan are off, the display will show OFF and displays the room temperature. If the receiver is in REMOTE mode, the fireplace will shut off.

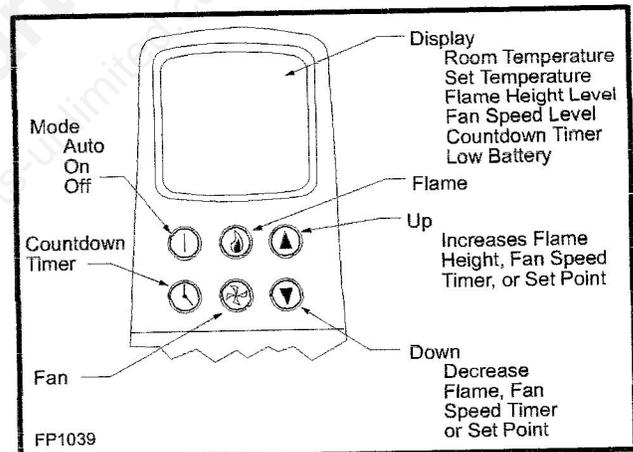


Fig. 67 Transmitter diagram.

On (Manual) Mode

In the ON mode, the room temperature, flame and fan levels will be shown. MANUAL will appear next to both the flame and fan icons.

When the control is in the ON mode, the flame and fan levels, and delay timer are changed with the up and down buttons. To change the flame level, press the flame button followed by an arrow key. To change the fan level, press the fan key followed by an arrow key. Pushing the arrow key once will change the level by one unit.

Delay Timer Mode

The shut off delay timer has a maximum of 2 hours and a minimum of zero minutes. To change the timer level, press the time key followed by an arrow key. Pushing the key once will change the timer by 10 minutes.

Auto Mode

In the AUTO mode, the room temperature, set temperature, flame and fan levels will be shown. AUTO will appear next to both the flame and fan icons.

When the control is in the AUTO mode, the main burner will turn on/off or modulate based on the heat needed to maintain the set temperature. The flame level will change automatically to optimize the heat output needed to maintain the set temperature. To change the set temperature, press the up or down key. Pushing a key once will change the temperature by one degree.

In the AUTO mode, the fan speed will increase with increasing flame height or decrease with decreasing flame height. "AUTO" is displayed next to the flame and fan icons.

Fan Override During Auto Mode

If a lower or higher fan speed is desired when operating in the AUTO mode, the fan speed can be overridden by pushing the fan button followed by the up or down key. Pushing a key once will change the fan level by one unit. In this mode "AUTO" is displayed next to the flame icon and "MANUAL" is displayed next to the fan icon.

Change Between F/C Temperature Units

Push the up and down arrow keys simultaneously for at least 3 seconds to toggle between Fahrenheit and Celsius units.

Disable Thermostat Function

To disable the thermostat function in the AUTO mode, push the time and down keys simultaneously for at least 3 seconds.

To Change Batteries

1. Remove cover on the backside of the transmitter. Install 3 AAA batteries as shown and reattach cover.
2. Once steps 1-3 in OPERATION are completed, receiver/valve and transmitter are now ready. Press any button on transmitter for recognition process to occur between the receiver/valve and transmitter.
3. Use functions as described in TRANSMITTER section.

Troubleshooting

1. Locate LED light on valve.
2. LED will blink after every valid command received by the transmitter; this is not an error.
3. Failure codes may occur anytime after pilot burner is lit.
4. Sequence is failure code followed by light not blinking for 30 seconds.
5. In the event of multiple failure codes, next failure code follows previous failure code by approximately 3 seconds.

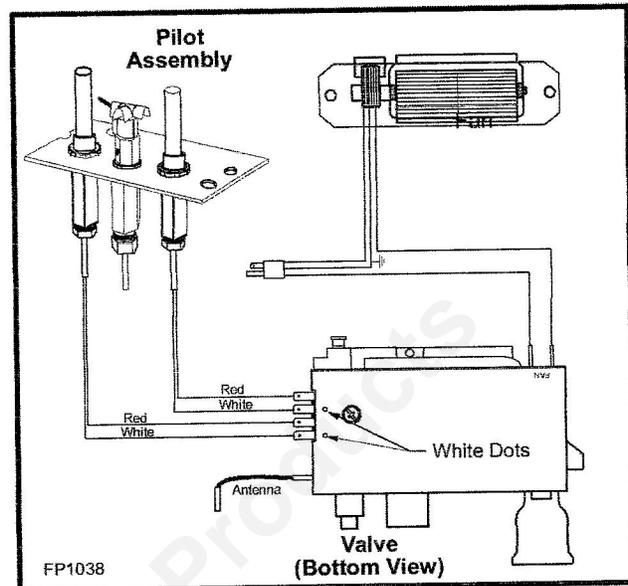


Fig. 68 Comfort Valve wiring diagram.

If an Error Code 3 is observed while performing the testing, complete the following:

1. Make sure the spade connectors are pushed all the way on. If the Error Code 3 is still showing, then go to the next step.
2. Switch the front two thermopile leads with the back two. Be sure the white lead is connected to the spade with the white dot next to it. If the Error Code 3 is still showing, replace the thermopiles.

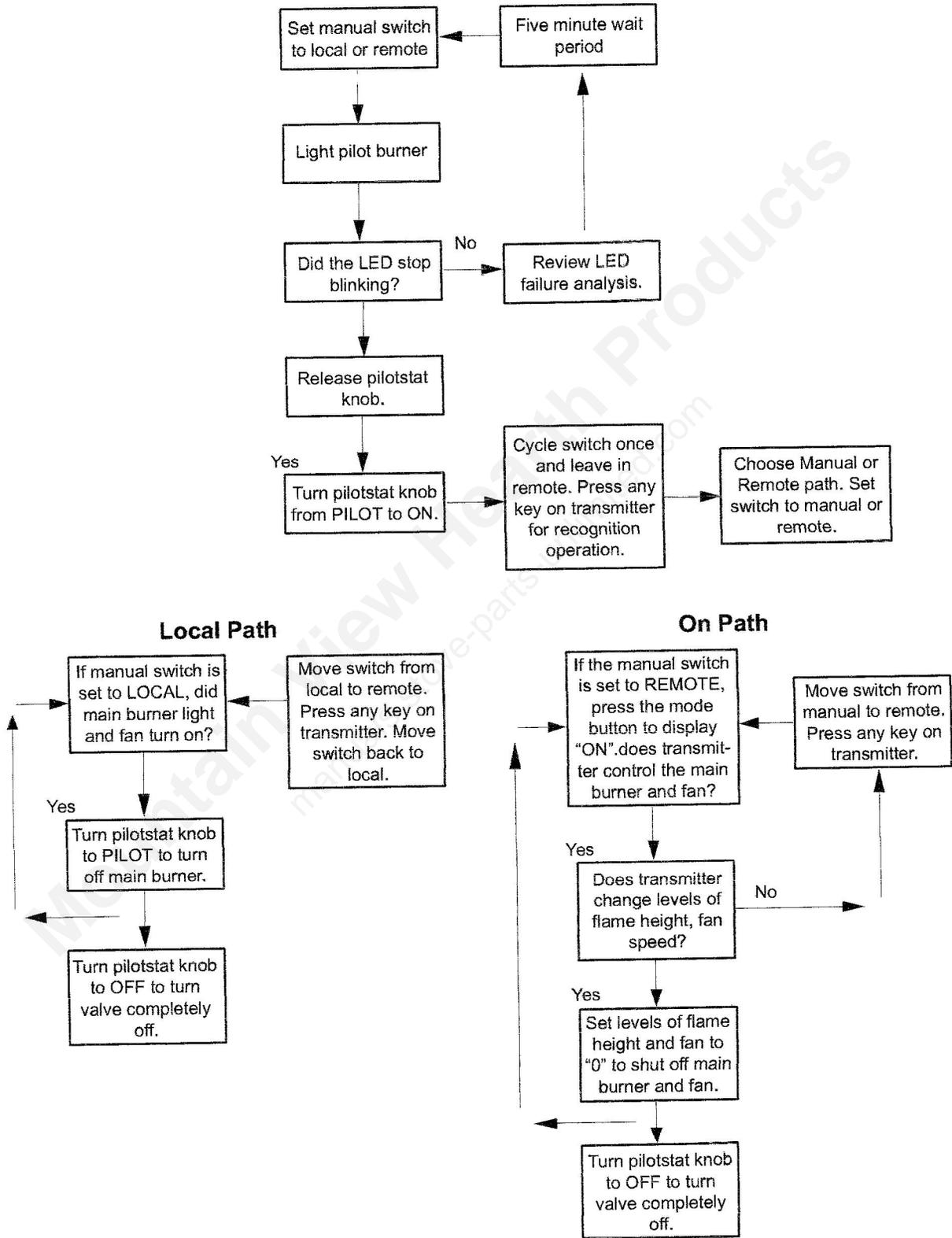
If an Error Code 8 is observed while performing the testing, complete the following:

1. Confirm the valve is not in REMOTE mode.
 - If the valve is producing Error Code 8 and in REMOTE mode, the valve is defective and should be replaced.
 - If the valve is in LOCAL mode and producing Error Code 8, then go to the next step.
2. Slide the Remote/Local switch to REMOTE and teach the valve a transmitter (see item 6, page 32). The Error Code will clear itself after approximately 1.5 minutes and return to normal operation.

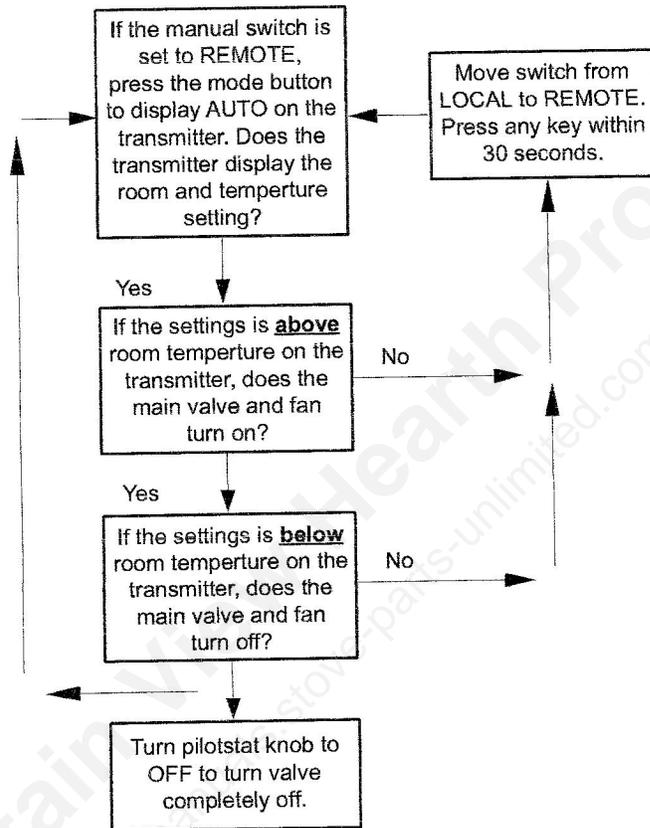
| LED Count | Service Action |
|-----------|---|
| 8 | Replace valve |
| 7 | Confirm stepper motor connection exists |
| 5 | Confirm fan connection exists and works |
| 4 | Confirm gas type; jumper in place |
| 3 | Replace thermopiles |
| 2 | Turn fan ON |

NOTE: Some keys are not active.

Comfort Valve System Control Sequence Of Operation With Transmitter



Auto Path



Troubleshooting / Honeywell #8420 Gas Control System

NOTE: Before troubleshooting the gas control system, be sure the external gas shutoff is in the "ON" position.
WARNING: REMOVE THE GLASS PANEL BEFORE PERFORMING ANY GAS CONTROL SERVICE WORK.

| SYMPTOM | POSSIBLE CAUSES | CORRECTIVE ACTION |
|--|--|---|
| 1. Spark ignitor will not light | A. Defective or misaligned electrode at the pilot | Using a match, light pilot. If pilot lights, turn off pilot and push the ignitor button again. If pilot will not light, check gap at electrode and pilot - it should be 1/8" to have a strong spark. |
| | B. Defective ignitor (push button) | Push piezo ignitor button. Check for spark at electrode and pilot. If there is no spark at the pilot, and electrode wire is properly connected, replace ignitor. |
| 2. Pilot will not stay lit after carefully following the lighting instructions | A. Defective pilot generator (thermocouple) | Check pilot flame. It must impinge on the thermocouple or thermopile. NOTE: This pilot burner assembly uses both a thermocouple and a thermopile. The thermocouple operates the pilot flame. Tighten the thermocouple. The thermopile operates the main valve (ON and OFF). Clean and/or adjust pilot for maximum flame impingement on thermocouple and thermopile. |
| | B. Defective automatic valve operator | Turn valve knob to 'Pilot'. Maintain flow to pilot; millivolt meter should read greater than 10mV. If the reading is okay and the pilot does not stay on, replace the gas valve. NOTE: An interrupter block (not supplied) must be used to conduct this test. |
| 3. Pilot lights, no gas to burner, valve knob ON, remote switch (rocker switch) ON | A. Remote switch or wires defective | Check rocker switch and wires for proper connection. Use jumper wires across terminals at rocker switch. If burner lights, replace rocker switch. If okay, use jumper wires across rocker switch wires at the valve; if burner lights, wires are faulty or connections are bad. |
| | B. Thermopile may not generate sufficient voltage | 1. Be sure wire connections from thermopile at gas valve terminals are tight and thermopile is fully inserted into pilot bracket. |
| | | 2. One of the rocker switch wires may be grounded. Remove rocker switch wires from valve terminals. If burner now stays lit, trace rocker switch wiring from ground. It may be grounded to the appliance or the gas supply line. |
| | | 3. Check the thermopile with a millivolt meter. Take reading at thermopile ("TP" and "TP/TH") terminals of gas valve. Should read 325 millivolts minimum while holding valve knob depressed in PILOT position and with rocker switch OFF. Replace faulty thermopile if reading is below specified minimum. |
| C. Plugged burner orifice | Check burner orifices for debris, and remove. | |
| D. Defective automatic valve operator | Turn knob to ON, place rocker switch to ON, millivolt meter should read greater than 10 mV. If the reading is okay and the burner does not light, replace the valve. | |
| 4. Frequent pilot outage | A. Pilot flame may be too low or high, (blowing or lifting), causing the pilot to drop out | Clean and/or adjust pilot flame for maximum flame impingement on thermocouple and thermopile. |
| | B. Possible blockage of the vent terminal | Check the vent terminal for blockage. |

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.

Annual System Inspection

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

Logset and Burner / Cleaning and Inspection

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

1. Turn the burner OFF and let the heater cool completely before cleaning.
2. Lift the Stove Front up and then swing the bottom out to disengage it from the heater shell. (Fig. 69)
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. **DO NOT OPERATE THE HEATER WITH DAMAGED LOGS.**
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. **DO NOT USE A VACUUM TO CLEAN THE LOGS OR BURNER.**
6. Replace the glass panel and frame assembly.
7. Replace the Stove Front.

Care of Cast Iron

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

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

CAUTION

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

Cleaning the Glass

Clean the glass only with a soft, damp cloth. Do not use abrasive cleaning agents.

WARNING: Let the glass cool completely before attempting to clean.

Glass Replacement

Replace glass only with Vermont Castings approved parts. Refer to page 39 for Replacement Parts. Refer to Figure 70 and previous instructions for removal of the damaged glass frame.

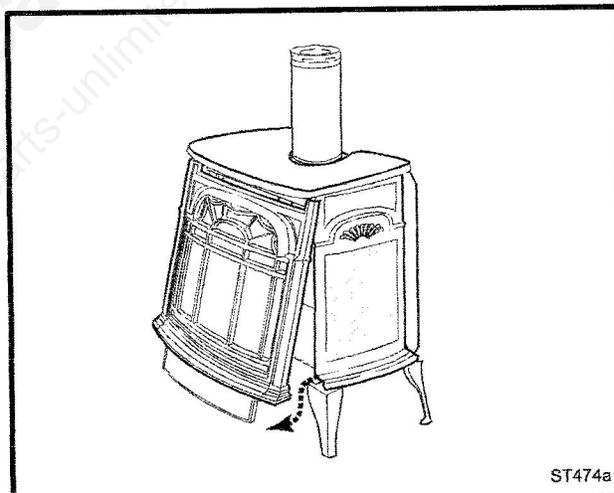


Fig. 69 Remove the Stove Front.

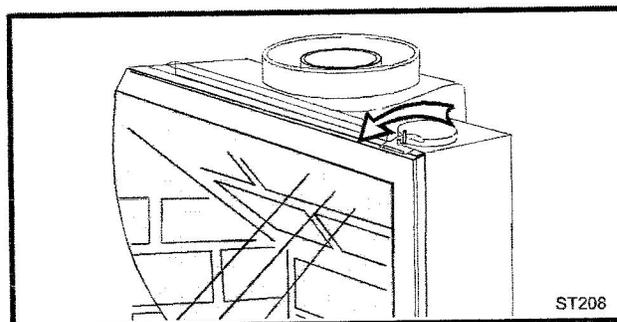


Fig. 70 Release the latches to release the glass frame.

Gasket Replacement

The Stardance 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. (Figs. 69 & 70) 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 a bout 6" at a time and being careful to not stretch the material. Do not overlap the gasket ends. (Fig. 71)
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.

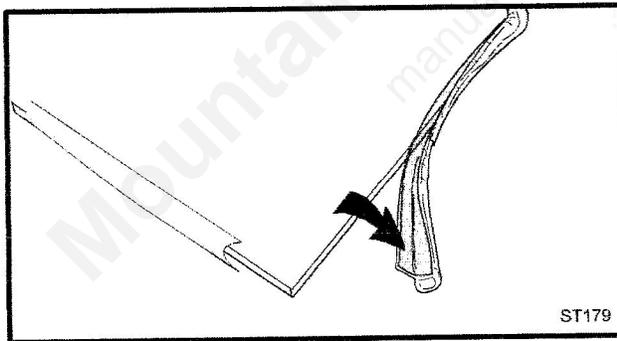


Fig. 71 Wrap the gasket material around the outside edge of the glass.

Inspect the Vent System Annually

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

Check the Gas Flame Regularly

To ensure that the stove is operating properly, check the flames periodically to confirm that they match Figure 72. 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.

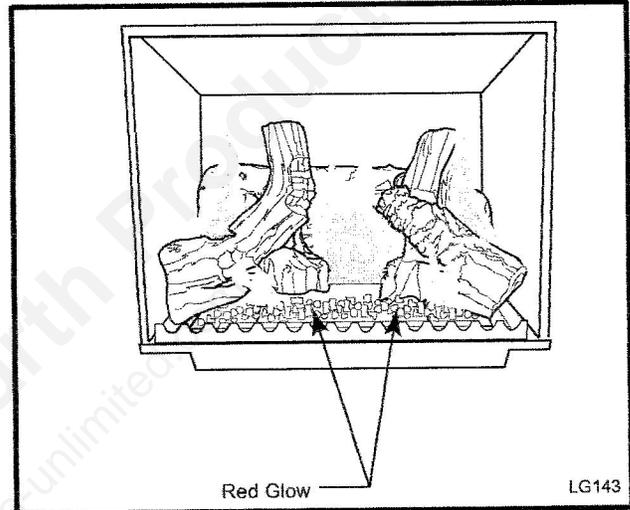


Fig. 72 Correct flame pattern.

Stove Disassembly

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

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

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

Upon reinstallation, the vent system must be sealed to the firebox as shown in the installation section, page 15. Also be sure the logs are placed in the firebox correctly, as shown in Figures 42 & 43, page 21.

Wiring Diagrams

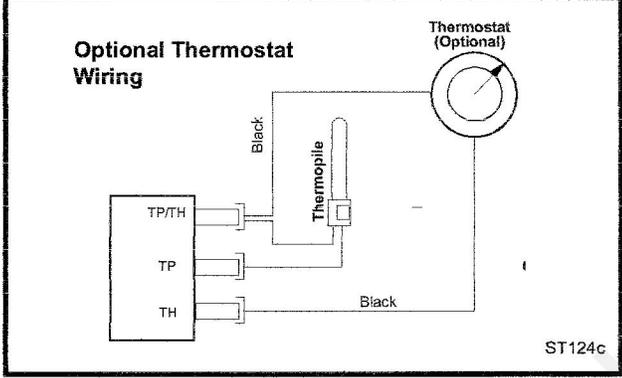
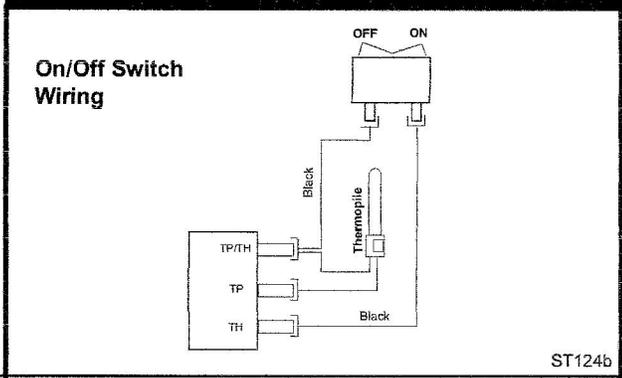


Fig. 73 On/off switch and optional thermostat circuit.

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.

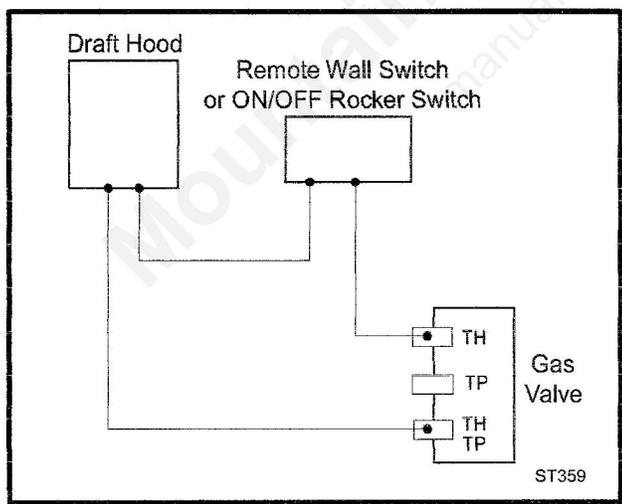


Fig. 74 Draft Hood Adapter wiring.

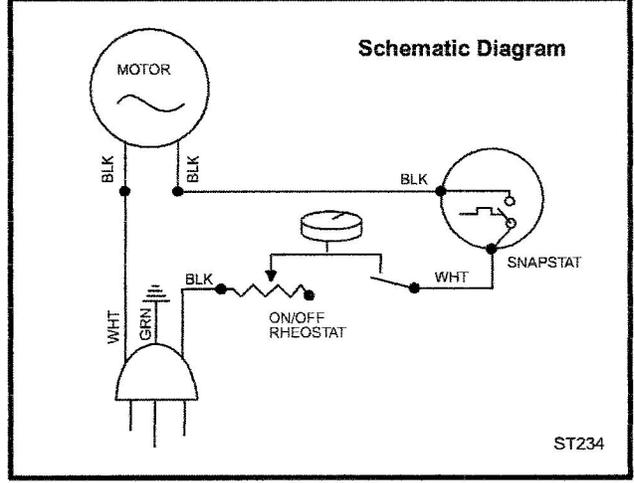
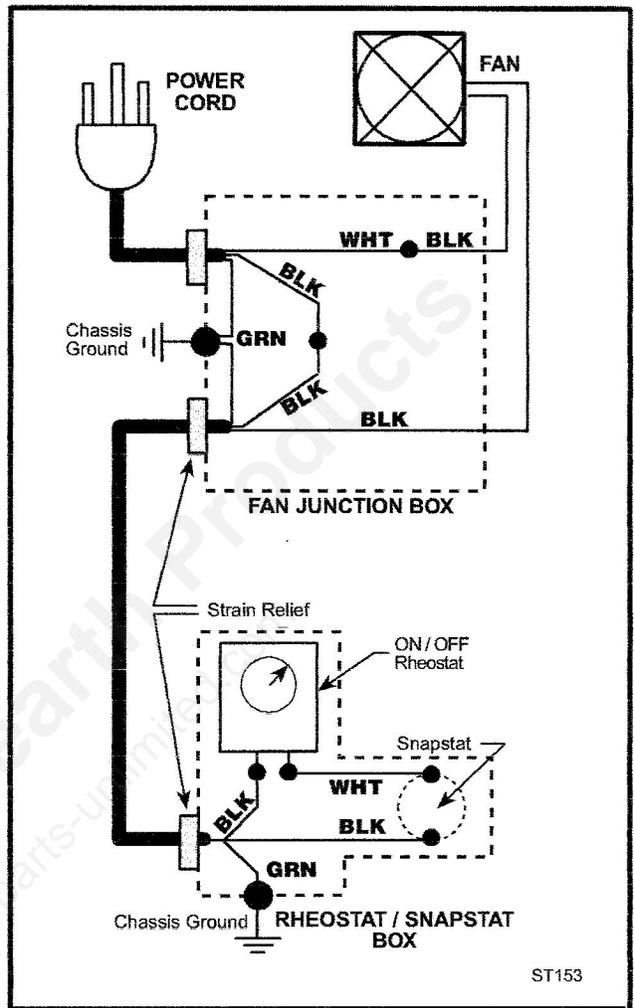
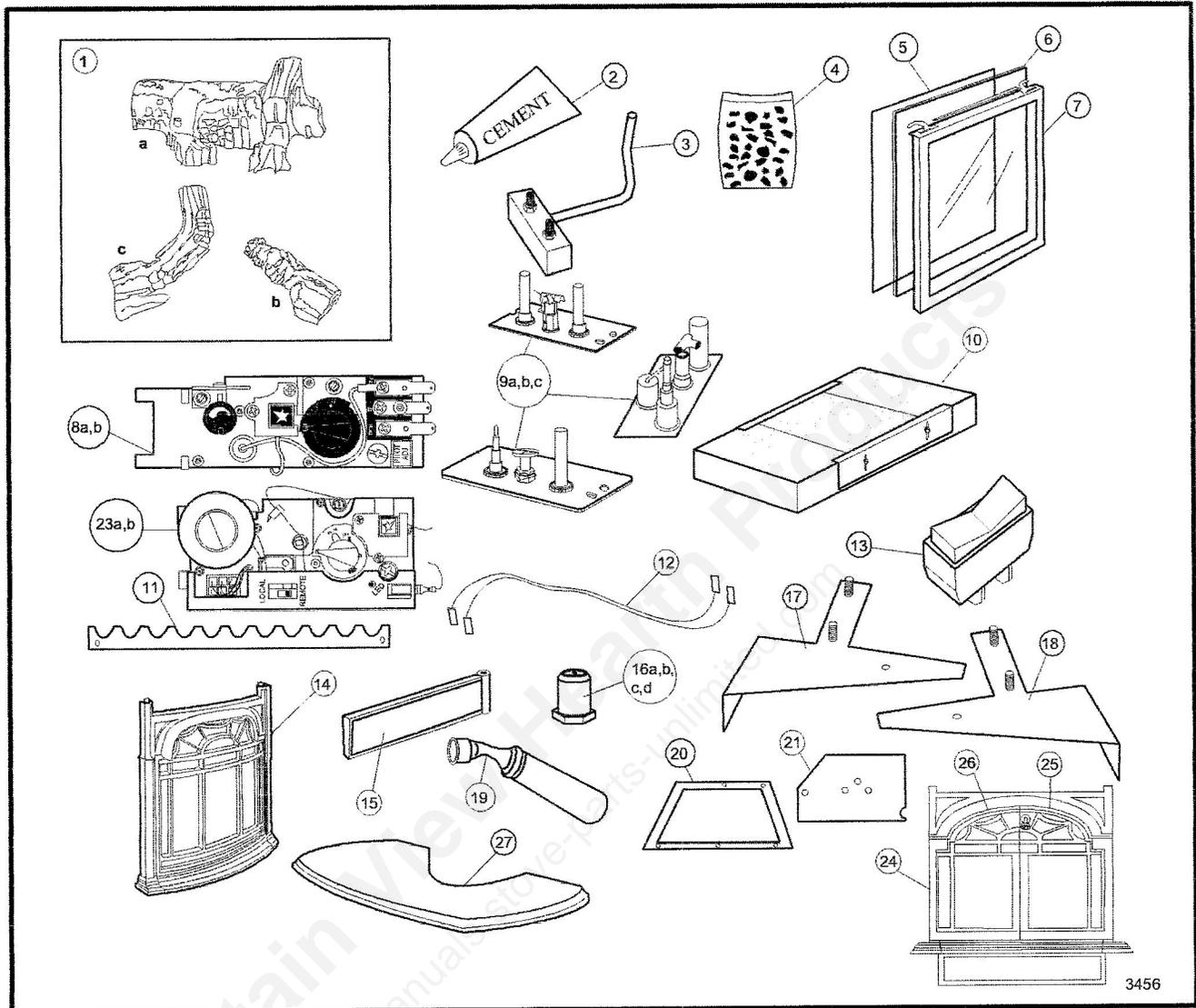


Fig. 75 Stardance Fan circuit.



The Vermont Castings Majestic Products Company reserves the right to make changes in design, materials, specifications, prices and discontinue colors and products at any time, without notice.

Stardance Direct Vent/ Natural Vent Heater

| Item/Model Number | Part Number |
|--------------------------------------|-------------|
| 1. Log Set Complete | 20003458 |
| 1a. Back Log | 20003459 |
| 1b. Right Log | 20003460 |
| 1c. Left Log | 20003461 |
| 2. Cement | 1206150 |
| 3. Manifold Assembly | 20002161 |
| 4. Small Lava Rock Package | 57897 |
| 5. Glass Gasket | 1203702 |
| 6. Glass | 1601691 |
| 7. Glass Frame Assembly | 30000127 |
| 8a. Honeywell Valve VS8420E, Natural | 10001782 |
| 8b. Honeywell Valve VS8420E, LP | 10001759 |
| 9a. Pilot - SIT, Natural | 10002264 |
| Pilot - PSE, Natural | 20001115 |
| 9b. Pilot - SIT, LP | 10002265 |
| Pilot - PSE, LP | 20001116 |

Stardance (continued)

| Item/Model Number | Part Number |
|--|-------------|
| 9c. RF Model Pilot Assy - Natural | 20002266 |
| RF Model Pilot Assy - LP | 20002268 |
| 10. Burner Assembly | 2002214 |
| 11. Burner Decorative Grate | 20002167 |
| 12. Wire Harness | 57265 |
| 13. Switch ON/OFF | 53606 |
| 14. Stove Front* | 30001350 |
| 15. Control Door | 1301087 |
| 16a. Front Orifice - LP | 30000694 |
| 16b. Front Orifice - Natural | 30000514 |
| 16c. Rear Orifice - LP | 30000514 |
| 16d. Rear Orifice - Natural | 30000512 |
| 17. Right Log Bracket | 20002166 |
| 18. Left Log Bracket | 20002165 |
| 19. Front Handle Assembly | 5004282 |
| 20. Base Pan Gasket | 20002282 |
| 21. Base Pan Inner Gasket | 20002566 |
| 22. Draft Hood Safety Sensor Switch | 10002013 |
| 23a. RF Models Honeywell Valve (RV8310E1107) - Natural | 20003719 |
| 23b. RF Models Honeywell Valve (RV8310E1115) - LP | 20003720 |
| 24. Double Door Front* | 30001137 |
| 25. Right Door* | 30001138 |
| 26. Left Door* | 30001139 |
| 27. DV Top* | 30001276 |

Fuel Conversion Kits:

| | |
|------------------------------|---------------|
| Natural Gas to LP - SDV30RN | Kit #000-5022 |
| Natural Gas to LP - SDV30RFN | Kit #000-5012 |
| LP to Natural Gas - SDV30RP | Kit #000-5021 |
| LP to Natural Gas - SDV30RFP | Kit #000-5011 |

* Specify color when ordering.

Mountain View Hearth Products
manuals.stove-parts-unlimited.com

Limited Three Year Warranty

The Vermont Castings, Majestic Products Company warrants that this Stardance Room Heater will be free of defects in material and workmanship for a period of three years from the date you receive it, except that the glass door panel, ceramic logs and gasketing shall be warranted for one year as described below.

The Vermont Castings, Majestic Products Company will repair or replace, at its option, any part found to be defective upon inspection by a Vermont Castings, Majestic Products authorized Dealer. The customer must return the defective part or the stove, with shipping prepaid, to the Authorized Dealer or pay for any Authorized Dealer in-home travel fees or service charges for in-home repair work. It is the dealer's option whether the repair work will be done in the customer's home or in the dealer's shop. If, upon inspection, the damage is found to be the fault of the manufacturer, repairs will be authorized at no charge to the customer for parts and/or labor.

Any Stardance Room Heater or part thereof that is repaired or replaced during the limited warranty period will be warranted for a period not to exceed the remaining term of the original limited warranty or six (6) months, whichever is longer.

Limited One Year Warranty

The following parts of the Stardance Room Heater are warranted to be free of defects in material and workmanship for a period of one year from the date you receive it. These parts are the glass panel, ceramic logs and gasketing. Any of these items found to be defective will be repaired or replaced at no charge, upon the return of said part to a Vermont Castings, Majestic Products Authorized Dealer with postage prepaid.

Exclusions and Limitations

1. This warranty is transferable; however, proof of original purchase is required.
2. The Vermont Castings, Majestic Products Company offers no warranty on chipping of enamel surfaces. Inspect your Stardance Room Heater prior to accepting it for any damage to the enamel.
3. This warranty does not cover misuse of the Stardance Room Heater as described in the Owner's Guide, nor does it cover a Stardance Room Heater that has been modified unless authorized by a Vermont Castings, Majestic Products representative in writing.
4. This warranty does not cover a stove repaired by someone other than either a Vermont Castings, Majestic Products Authorized Dealer or an authorized, qualified gas agency.
5. Damage to the unit while in transit is not covered by this warranty but is subject to claim against the common carrier. Contact The Vermont Castings, Majestic Products Company Authorized Dealer from whom you purchased your Stardance Room Heater. (Do not operate the Stardance Room Heater as this may negate the ability to process the claim with the carrier.)
6. Claims are not valid where the installation does not conform to local building and fire codes or, in their absence, to the recommendations in the Owner's Guide.
7. The salt air environment of coastal areas or a high humidity environment can be corrosive to the porcelain enamel finish. These conditions can cause rusting of the cast iron beneath the

porcelain enamel finish which will cause the porcelain enamel finish to flake off.

8. The Vermont Castings, Majestic Products Company shall have no obligation to enhance or update any unit once manufactured.

IN NO EVENT SHALL The Vermont Castings, Majestic Products COMPANY BE LIABLE FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES. ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. THIS WARRANTY SUPERSEDES ALL OTHER ORAL OR WRITTEN WARRANTIES.

Some states do not allow the exclusion or limitations of incidental and consequential damages or limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty gives you specific rights and you may have other rights which vary from state to state.

How to Obtain Service

If a defect is noted within the warranty period, the customer should contact a Vermont Castings, Majestic Products Authorized Dealer with the following information:

1. Name, address and telephone number of the purchaser.
2. Date of purchase
3. Serial number from the label on the back of the stove.
4. Nature of the defect or damage.
5. Any relevant information or circumstances, i.e., installation, mode of operation when defect was noted.

A warranty claim process will then begin. The Vermont Castings, Majestic Products Company reserves the right to withhold final approval of a warranty claim pending a visual inspection of the defect by authorized representatives.

Please record the following information for future reference

Serial No. _____

Fuel Type: NG _____ LP _____

Manifold Pressure: _____

Inlet Supply Pressure: _____

Dealer: _____

Phone: _____

Date of Purchase: _____

Installer: _____

Phone: _____

Date Installed: _____

LIMITED WARRANTY & EXTENDED LIFE TIME PROTECTION

For Vermont Castings Gas Appliance Products*

BASIC WARRANTY:

The Vermont Castings, Majestic Products Company (hereinafter referred to collectively as the "Company") warrants that your new Vermont Castings Gas Appliance is free from manufacturing and material defects for a period of one year from date of installation, subject to the following conditions and limitations.

EXTENDED LIFE TIME WARRANTY:

The heat exchanger, combustion chamber and ceramic burner parts of every *The Vermont Castings, Majestic Products Company products are warranted for life to the original owner, subject to proof of purchase and the following conditions and limitations:

1. This new Vermont Castings product must be installed by a competent, authorized service contractor. It must be installed and operated at all times in accordance with the Installation and Operating instructions furnished with the product. Any alteration, willful abuse, accident, or misuse of the product shall nullify this warranty.
2. This warranty is non-transferrable, and is made to the original owner, provided that the purchase was made through an authorized supplier of the Company.
3. This warranty is limited to the repair or replacement of part(s) found to be defective in material or workmanship, provided that such part(s) have been subjected to normal conditions of use and service, after said defect is confirmed by the Company's inspection.
4. The Company may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of the defective part(s).
5. Any installation, labour, construction, transportation, or other related costs/expenses arising from defective part(s), repair, replacement, or otherwise of same, will not be covered by this warranty, nor shall the Company assume responsibility for same. Further, the Company will not be responsible for any incidental, indirect, or consequential damages, except as provided by law.
6. All other warranties - expressed or implied - with respect to the product, its components and accessories, or any obligations/liabilities on the part of the Company are hereby expressly excluded.
7. The Company neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this Vermont Castings product.
8. The warranties as outlined within this document do not apply to chimney components or other non Vermont Castings accessories used in conjunction with the installation of this product.
9. **The Company will not be responsible for . . .**
 - a) Down drafts or spillage caused by environmental conditions such as near-by trees, buildings, roof tops, hills, or mountains.
 - b) Inadequate ventilation or negative air pressure caused by mechanical systems such as furnaces, fans, clothes dryers, etc.
10. **This warranty is void if:**
 - a) The fireplace has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals.
 - b) The fireplace is subjected to prolonged periods of dampness or condensation.
 - c) Any damage to the fireplace, combustion chamber, heat exchanger or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.
 - d) Any alteration, willful abuse, accident, or misuse of the product.

GLASS DOORS & BRASS PLATED PARTS

Glass doors are not warranted for breakage due to misuse or accident. Brass parts should be cleaned with lemon oil **only**. Brass cleaners **cannot** be used. Mortar mix and masonry cleaners may corrode the brass finish. The Company will not be responsible for, nor will it warrant any brass parts which are damaged by external chemicals or down draft conditions.

IF WARRANTY SERVICE IS NEEDED . . .

- 1) Contact your supplier. Make sure you have your warranty, your sales receipt, and the model/serial number of your Vermont Castings product.
- 2) **DO NOT ATTEMPT TO DO ANY SERVICE WORK YOURSELF.**

*The Vermont Castings, Majestic Products Company products bearing this special Warranty Seal of Approval carry a comprehensive Limited Lifetime Warranty. This includes the *Insta-Flame* Ceramic Burners, Heat Exchange System and Combustion Chamber. All other parts are covered for one year.



MAJESTIC
VERMONT
Castings

410 Admiral Blvd.
Mississauga ON L5T 2N6

GARANTIE DE BASE:

The Vermont Castings, Majestic Products Company (aux présentes nommée la "Société") garantit votre nouveau foyer au gaz Vermont Castings contre tous défauts de fabrication et de matières premières pour une période d'un an à compter de la date d'installation, sujet aux conditions et limitations suivantes.

GARANTIE A VIE PROLONGEE:

Les pièces de l'échangeur de chaleur, de la chambre à combustion et du brûleur en céramique de tout produit *The Vermont Castings, Majestic Products Company sont garanties pour la vie de l'acheteur d'origine, le tout sujet à une preuve d'achat et aux conditions et limitations suivantes:

1. Ce nouveau produit Vermont Castings doit être installé par un entrepreneur de service autorisé et compétent. Il doit être installé et utilisé en tout temps selon les instructions d'installation et de fonctionnement fournies avec le produit. Toute altération, abus volontaire, accident ou mauvais usage du produit annulera cette garantie.
2. Cette garantie n'est pas transférable et est offerte à l'acheteur au détail d'origine, à condition que l'achat soit effectué par l'entremise d'un détaillant autorisé de la Société.
3. Cette garantie est limitée à la réparation ou au remplacement de(des) pièce(s) trouvée(s) défectueuse(s) en matières premières ou main-d'œuvre, à condition que lesdites pièces aient été sujettes aux conditions normales d'usage et de service, après que ledit défaut a été confirmé par une inspection par la Société.
4. La Société peut, à sa discrétion, se décharger entièrement de toutes obligations se rapportant à cette garantie en remboursant le prix de gros de la(des) pièce(s) défectueuse(s).
5. Tous les frais/dépenses d'installation, de main-d'œuvre, de construction, de transport ou autres causés par une (des) pièce(s) défectueuse(s), une réparation, un remplacement ou autre, ne seront pas couverts sous cette garantie, et la Société n'assume aucune responsabilité pour ceux-ci. De plus, la Société ne pourra être tenue responsable pour tous dommages fortuits ou indirects sauf la ou prévu par la loi.
6. Toutes autres garanties, exprimées ou sous-entendues, en ce qui a trait au produit, ses composants et accessoires, ou toutes obligations/responsabilités de la part de la Société sont aux présentes expressément exclues.
7. La Société n'assume et n'autorise personne à assumer, en son nom, toutes responsabilités en ce qui a trait à la vente de ce produit Vermont Castings.
8. Les garanties, telles que décrites dans ce document, ne s'appliquent pas aux compasants de cheminée ou aux autres accessoires non Vermont Castings utilisés conjointement pour l'installation de ce produit.
9. **La Société n'encourra aucune responsabilité pour . . .**
 - a) Les refoulements de cheminées ou débordements causés par les conditions environnementales comme par les arbres, les édifices, les toits, les côtes ou les montagnes adjacentes.
 - b) Une ventilation inadéquate ou une pression d'air négative causée par des systèmes mécaniques comme les fournaies, les ventilateurs, les sècheuses, etc.
10. **Cette garantie est nulle si:**
 - a) Le foyer a été utilisé dans une atmosphère contaminée par du chlore, du fluor ou tous autres produits chimiques.
 - b) Le foyer est assujéti à de longues périodes d'humidité ou de condensation.
 - c) Des dommages sont causés au foyer, à la chambre de combustion, à l'échangeur de chaleur ou aux autres composants par de l'eau ou par la température qui est le résultat mais sans y être limité, d'une mauvaise installation de cheminée/ventilation.
 - d) Toute altération, abus volontaire, accident ou mauvais usage du produit annulera cette garantie.

PORTES EN VERRE & PIÈCES PLAQUÉES LAITON

Les portes en verre ne sont pas garanties contre le bris causé par un mauvais usage ou un accident.

Les pièces en laiton devraient être nettoyées qu'avec de l'essence de citron. Les nettoyeurs de laiton ne peuvent pas être utilisés. La Société ne sera pas responsable pour, et ne garantit pas les pièces en laiton qui sont endommagées par des conditions chimiques externes ou de refoulement.

SI UN SERVICE SOUS GARANTIE EST REQUIS . . .

1. Communiquez avec votre détaillant. Assurez-vous que vous avez votre garantie, votre reçu de caisse ainsi que le numéro de modèle/série de votre produit Vermont Castings.
2. **NE TENTEZ PAS D'EFFECTUER DES REPARATIONS VOUS-MEME.**

*Les foyers à gaz The Vermont Castings, Majestic Products Company portant ce sceau d'approbation de la garantie spéciale sont couverts par une garantie limitée à vie. Celle-ci inclut les brûleurs en céramique Insta-Flame, l'échangeur de chaleur et la chambre à combustion. Toutes les autres pièces sont couvertes pour un an.

