

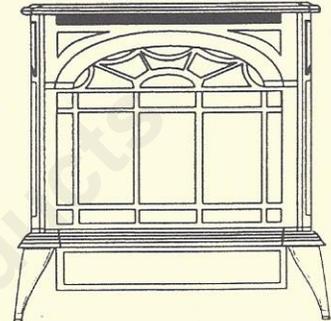
VERMONT CASTINGS STARDANCE NATURAL VENT HEATER SNV30 OWNER'S GUIDE

INSTALLATION, OPERATION AND MAINTENANCE PROCEDURES
FOR USE IN NORTH AMERICA

MODELS 2943 and 2944



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



WARNING

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

FOR YOUR SAFETY:

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS

- Shut off the gas supply.
- Open windows; do not touch any electrical switches.
- Do not try to light any appliance; extinguish any open flame.
- Do not use the 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, phone the fire department.

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

**SAVE THIS MANUAL FOR
FUTURE REFERENCE.**

AVERTISSEMENT

Quiconque ne respecte pas à la lettre les instructions dans le présent manuel risque de déclencher un incendie ou une explosion entraînant des dommages matériels, des lésions corporelles ou la perte de vies humaines.

POUR VOTRE SÉCURITÉ:

Ne pas entreposer ni utiliser d'essence ni d'autre vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.

QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:

- Fermer le gaz alimentation.
- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous trouvez.
- Evacuez la pièce, le bâtiment ou la zone. Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.

L'installation et service doit être exécuté par un qualifié installer, agence de service ou le fournisseur de gaz.

The Stardance Gas Room Heater, Model #SNV30, No. 2943 and 2944, 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 Gas 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 1-B1-149.1 and .2 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 3.5 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.

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 Gas Room Heater should be inspected before use and at least annually by a qualified service agency. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. 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 Gas 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 Gas 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 gage connection, should be installed on the inlet gas connection.

The draft hood must be in the same atmospheric pressure zone as the combustion air inlet. This is achieved when the unit is installed according to the installation instructions.

This heater must be properly connected to a venting system. This heater is equipped with a vent safety shut-off system.

WARNING: Operation of this heater when not connected to a properly installed and maintained venting system or tampering with the vent safety shut-off system can result in carbon monoxide (CO) poisoning and possible death.

The Stardance Gas 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 vetements, le meubles, l'essence ou autres liquides a vapeur inflammables lin de l'appareil.

Any safety screen 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.

Welcome

Thank you for your purchase of a Vermont Castings Stardance Gas Stove. With this purchase, you have made a commitment to make the hearth a place of warmth, beauty, and comfort in your home. At Vermont Castings, we share that appreciation for the hearth.

We have made your Stardance Stove with great care; it will provide you with many years of service.

This manual contains valuable instructions on the installation, operation, and maintenance of your stove. We urge you to read the manual before starting the installation, and to keep it for future guidance.

Sincerely,
All of us at Vermont Castings

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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.

Specifications

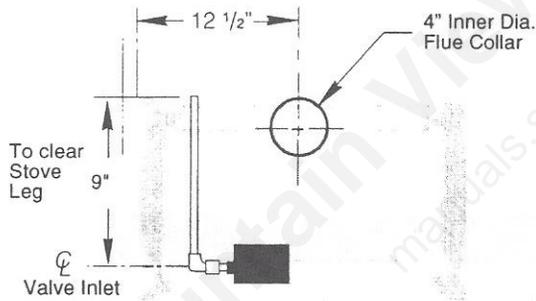
Stardance SNV30 Natural Vent Gas Heater

Fuel:	Natural Gas	Propane
Manifold pressure:	3.5" W.C.	11.0" W.C.
Minimum inlet supply pressure for input adjustment:	5.0" W.C.	11.0" W.C.
Maximum inlet supply pressure:	11.0" W.C.	13.0" W.C.
Input, BTU/hour:	30,000	30,000
A.F.U.E.*	69.4%	72.4%
Steady State Efficiency	69.9%	72.9%
Glass Panel:	High-temperature ceramic	
Weight	200 lbs.	
Ignition:	Standing pilot with piezo ignition	

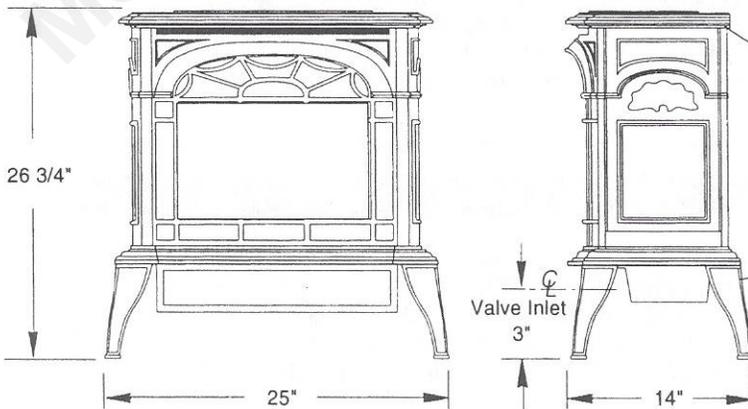
AGA Design Certified to ANSI Z21.88-1998 and CSA 2.33-M98 for Vented Gas Fireplace Heaters by International Approval Services, Inc.

*Seasonal efficiency - minimum vent, no fan

Dimensions



Drawings not to scale. Check local codes for approved supply line fittings. See Page 3 for wall-to-flue collar centerline dimensions.



Installation

The installation of the Stardance Natural Vent stove must conform to 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 11.0 inches for propane (LP).

In Canada, installation must conform to the current CAN-1-B1-149.1 and .2 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 Vermont Castings dealer or your local gas supplier will be able to refer a qualified service person.

WARNING: DUE TO HIGH TEMPERATURES, THE VERMONT CASTINGS STARDANCE SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.

THE SURFACE OF THE STARDANCE IS HOT WHEN IT IS IN USE. YOUNG CHILDREN SHOULD BE WATCHED CAREFULLY WHEN THEY ARE IN THE SAME ROOM WHEN THE STARDANCE IS IN USE, AND THEY SHOULD BE TAUGHT TO AVOID THE HOT SURFACE. KEEP ANY OBJECTS THAT CAN BURN WELL AWAY FROM THE STARDANCE, AND OBSERVE THE RECOMMENDED CLEARANCES THAT FOLLOW.

Hearth Requirements

The Stardance must be installed on rigid flooring. When the Stardance 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.

Keep the Stove a Safe Distance from Surrounding Materials

The Stardance 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 Stardance in two typical installations. Measure the 5" minimum rear clearance from the outer steel rear skirt; measure the minimum 6" side and corner clearance from the outer edge of the cast iron top.

Outside Air Adapter

Some installations or localities require a source of outdoor air connected to the stove. Vermont Castings Outside Air Adapter kit #5076 provides a convenient way to connect such a source directly to the back of the stove.

Parallel Installation: Minimum Clearance and Flue Centerline

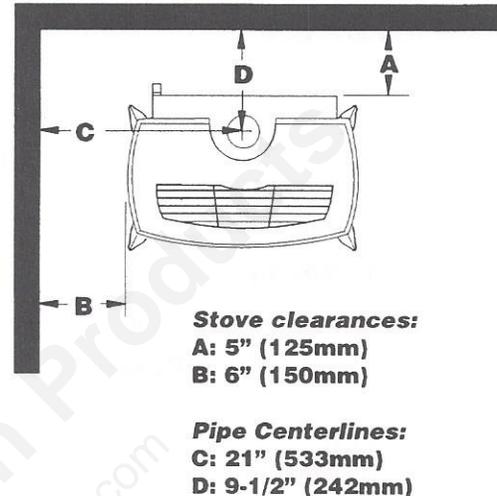


Figure 1. Parallel installation requirements.

Corner Installation: Minimum Clearance and Flue Centerline

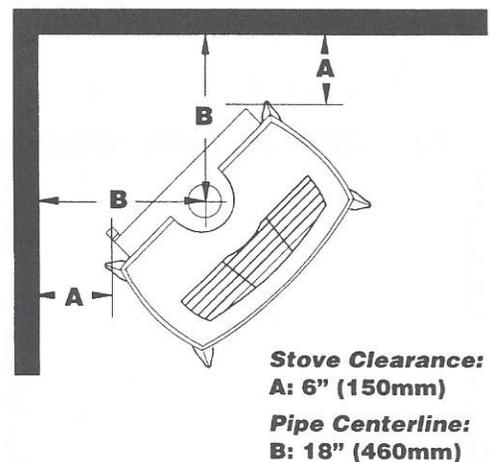


Figure 2. Corner installation requirements.

Clearances

Measure side clearances from the outermost left and right edges of the stove top. Measure rear clearances from the outermost surface of the steel rear shroud.

Ceiling Clearance

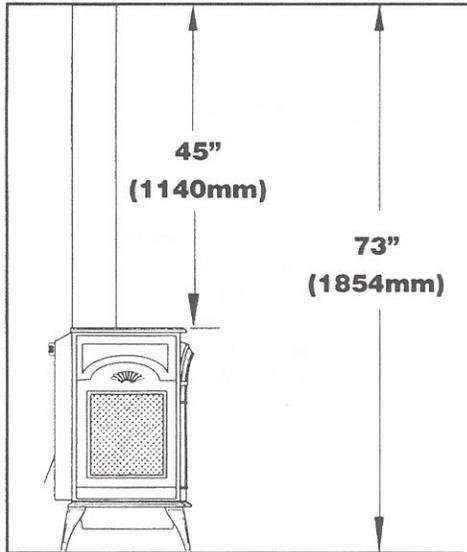
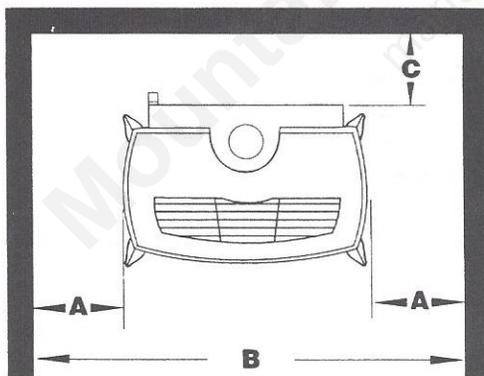


Figure 3. Minimum ceiling clearance; minimum alcove height.

Alcove Minimum Dimensions



- A. 6" (150mm)**
- B. 42" (1070mm)**
- C. 5" (125mm)**

Figure 4. The Stardance Natural Vent Stove is approved for installation into alcoves built of combustible materials.

Venting Requirements and Options

The Stardance must be properly connected to a listed 4" (100mm) Type B venting system or to an approved Class A masonry or factory-built chimney system. In Canada, a complete relining of Class A chimney systems is required.

The Stardance Natural Vent stove will accept decorative 6" (150mm) stove pipe around the Type B venting system, for aesthetic purposes.

Complete Type B vent systems are available from a number of manufacturers, and your dealer can usually supply one. Pipe sections from different makers are not interchangeable; do not mix pipe or vent sections from different makers. Follow the vent system maker's instructions exactly.

The vent system should conform specifications of the National Fuel Gas Code, latest edition.

If connecting to a Class A chimney system, use 4" (100mm) single wall or 4" Type B vent connector. Single wall vent connector requires a minimum 6" (150mm) clearance to combustible surfaces.

Exterior chimneys may be subject to flow reversal or condensation. To lessen these conditions, enclose Type B vents in an insulated chase, or reline exterior Class A chimneys.

An approved pass-through device is always required, whether the vent system passes through a wall or a ceiling. Use a pass-through device from the same maker who supplies the venting system.

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

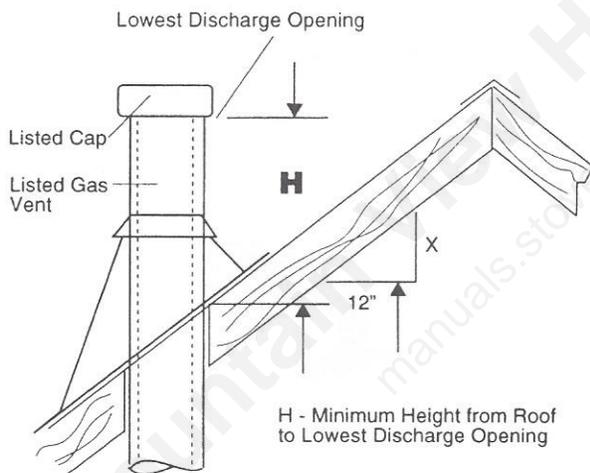
Vent Layout and Height Requirements

Venting for a Stardance can rise vertically through the home, or can pass through an exterior wall and rise along the outside of the home. Some codes require that a Type B vent system rising on the outside of the home be enclosed in a chase. Check your local codes for requirements.

The minimum vent system height for the Stardance Natural Vent Stove is 12 feet (3.66m), measured from the floor. To determine the minimum height the vent system must extend through or past the roof, see Figure 5 below (from the 1993 edition of the National Fuel Gas Code).

Taller vent heights allow longer horizontal runs. Choose a vent layout with the smallest possible number of elbows and/or offsets, to encourage good performance. For each additional elbow or offset over two, a 10% reduction in overall vent capacity must be calculated. Consult the most recent edition of the National Fuel Gas Code for complete venting information.

Minimum Termination Requirements for Type B Venting Systems



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

Figure 5. Determine minimum vent height over the roof according to roof pitch.

Passing Through a Combustible Wall or Ceiling

An approved pass-through device is always required when a vent passes through a combustible wall or ceiling. Check with the maker of the vent system for the correct listed devices that are available. A listed pass-through device is required whether or not the installation includes decorative pipe around the Type B venting system. **NOTE:** it is essential to seal between the ceiling support (sometimes called a 'firestop spacer') and the decorative pipe, if installed, with a high-temperature silicone sealant. See Figure 6.

Complete the venting system installation according to the maker's directions.

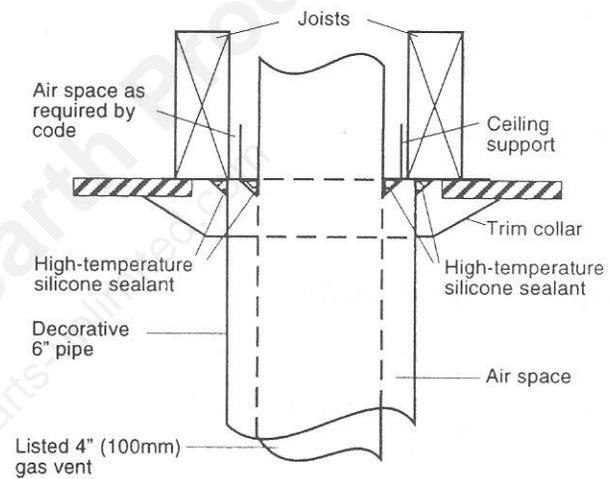


Figure 6. A ceiling pass-through, with decorative pipe around the vent.

Assembly Procedures

WARNING

FAILURE TO POSITION THE PARTS IN ACCORDANCE WITH THESE DIAGRAMS OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED FOR USE WITH THIS HEATER MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY.

THIS HEATER AND COMPONENTS ARE HEAVY. HAVE HELP AVAILABLE FOR ASSEMBLY.

Read this section of the manual to familiarize yourself with the procedures before you begin assembly. The installation will be easiest if you follow the steps in the order given.

Tools Required

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

Unpack the SNV30

Cut the shipping straps and remove the Rear Shroud from its carton. Remove the Parts Bag and any packing material from the top of the firebox, Figure 7. Do not remove the firebox from the shipping pallet yet.

Parts Bag Contents:

- Control Panel
- Control Panel Hole Plug
- (2) Side Heat Shields
- On/Off Switch, Housing, and Wiring Harness
- On/Off-T'Stat Switch Label
- 1 Pipe Bracket
- (16) #10 x 1/2" phillips sheet metal screws
- (4) #10 x 1" phillips sheet metal screws
- 1 Bag of Lava Rocks
- 1 Wire Tie
- 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.

1. Swing open the swiveling latches at the top left and right corners of the glass frame. Figure 8.
2. Pull the top edge of the glass and frame assembly away from the firebox and lift it off the 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.
3. Take the log set and all other loose parts out of the firebox, and set them aside in a protected spot.

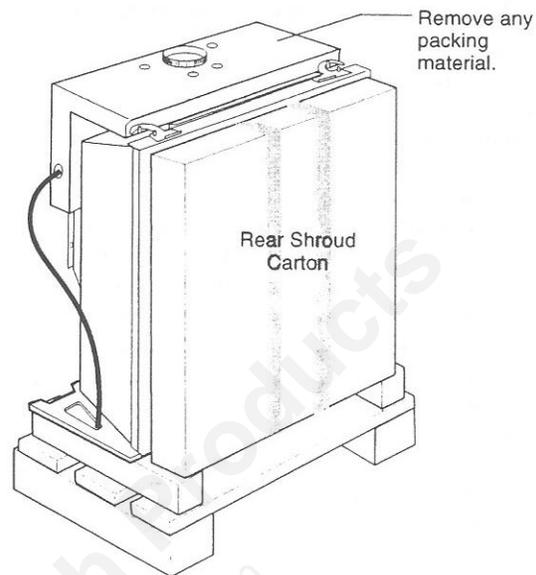


Figure 7. SNV30 Firebox as shipped.

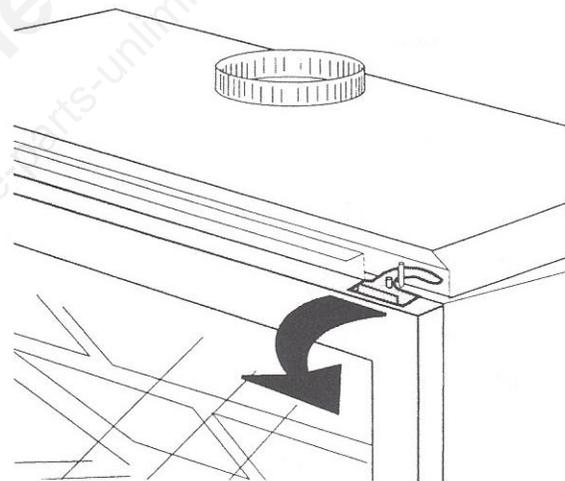


Figure 8. Swivel the latches to release the glass frame from the firebox.

Unpack the cast iron stove shell parts from the shipping 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.**

Shell Assembly

- 1. Install the Side Heat Shields.** Use two #10 x 1/2" sheet metal screws to attach each heat shield to the sides of the rear shroud as shown in Figure 9.
- 2. Attach the Rear Shroud to the Left Side plate** by aligning the key holes with the two wingbolts in the side. If necessary, turn the wingbolts to orient the blades vertically. Figure 9. Slide the shroud downward to engage it behind all three washers on the side plate bolts and then tighten both wingbolts.
- 3. Attach the Right Side Plate to the Rear Shroud.** Figure 10. 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 13.

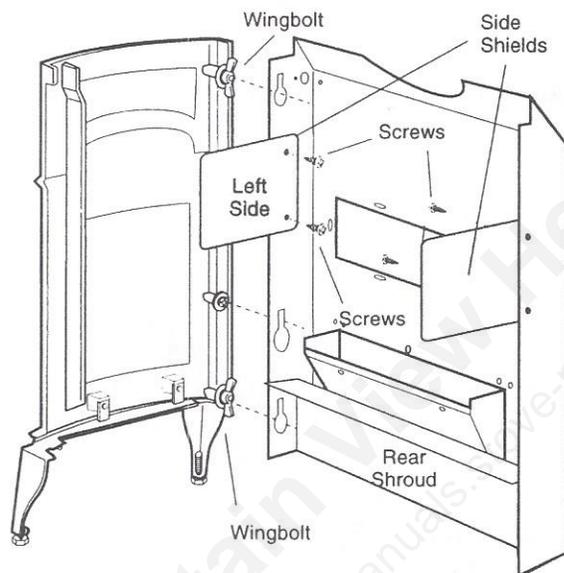


Figure 9. Fasten the side shields to the rear shroud, and the left end to the rear shroud.

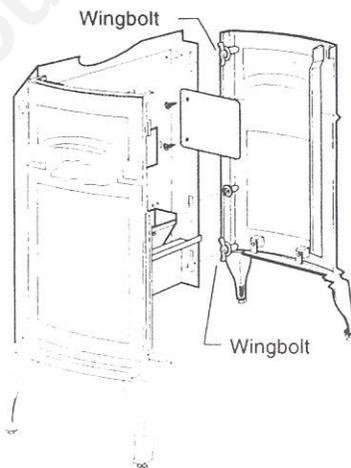


Figure 10. Fasten Right End to the rear shroud.

Install the On/Off Switch

1. Pass the end of the Switch Wiring Harness with three female connectors through the larger hole in the upper left side of the Rear Shroud. See Fig. 11.
2. **Attach the three female connectors** to the terminals on the On/Off Switch as in Fig. 11.
 - **red** wire to the center post
 - **black** wire to the forward post
 - **white** wire attaches to the rear post.
3. **Attach the switch housing to the rear shroud** with two #10 x 1/2" sheet-metal screws, from the parts bag. See Fig. 12.
4. **Attach the self-adhesive "T'Stat/Off/On" label** to the housing as shown in Fig. 12.
5. Position the wire harness between the Side Plate and the Side Shield. See Figs. 13.

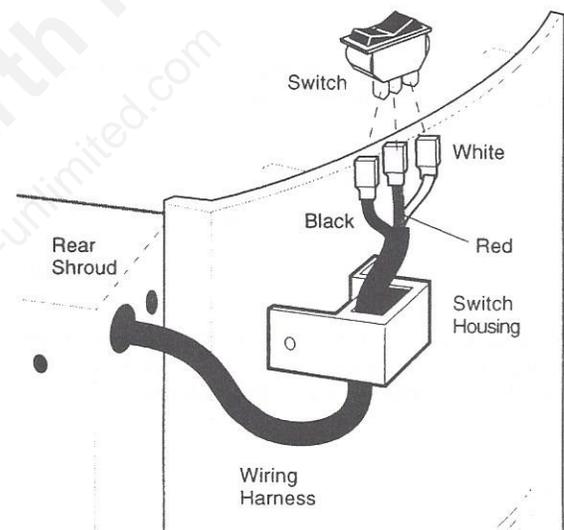


Figure 11. Attach the wire harness terminals to the switch.

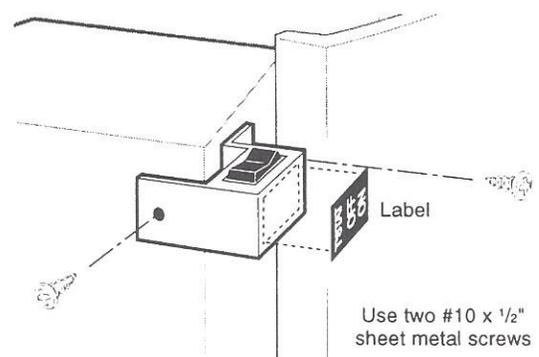


Figure 12. Attach the switch to the Rear Shroud.

Install the Firebox

CAUTION! The Firebox is heavy. You should have assistance available to install this unit.

1. Before lifting the firebox into place, be sure that the Rear Shroud and Side Plates are properly aligned at 90° to each other. See Fig. 13.
2. Lift the firebox assembly and slide it into the shell assembly, resting the base of the firebox on the side support shelves as in Figures 13 and 14. Each Side Plate has two steel retainer tabs that engage the rail in the left and right edges of the firebox Base as shown in Figure 14. Properly positioned, the firebox will be level and locked in place. If not, adjust the levelling screw in the foot of each leg. The levelers should not extend further than may be necessary to accommodate irregular surfaces and bring the assembly together.

3. **Locate both Wire Harnesses between the Side Plate and Heat Shield** as shown in Fig. 13. The *Off/On Switch* harness should be located behind the heat shield and routed down through the hole in the firebox Base for connection to the Control Valve.

The *Vent Safety Switch* wire harness has been installed on the firebox at the factory. Be sure to loop this wire harness around behind the Side Heat Shield also.

Wire harnesses should not contact the side of the firebox. Use a wire tie to keep them together at the base of the stove.

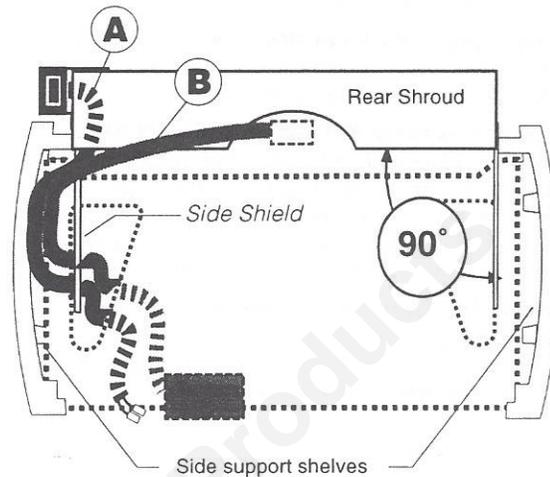


Figure 13. Locate both Wire Harnesses between the Side Shield and the Left Side Plate.

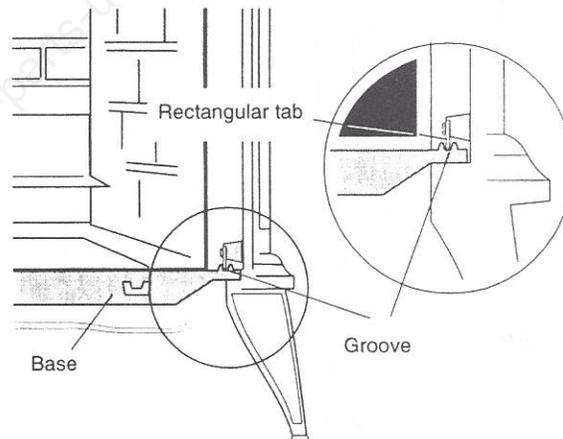


Figure 14. Install the Firebox Assembly. Be sure that the tabs on the stove sides engage the grooves on both ends of the Base.

If you are installing the optional convection Fan Kit #2767 (FK26), continue here. If you will not install a Fan Kit, proceed to page 10, Secure the Shroud.

Installing the Optional Fan

The fan kit includes a blower assembly with a rheostat control. The blower assembly mounts to the two studs at the lower rear shroud. The rheostat attaches to the front control panel. The blower 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.

NOTE: The #2726 / FK26 Fan Kit includes mounting hardware that is not used on your Stardance Natural Vent heater. Use only those parts shown in Fig. 16.

1. Unpack and inspect the Fan Kit. Confirm that the fan spins freely.
2. Remove the cover plate (A) at the bottom of the rear shroud. Fig. 15.
3. Remove the hex nuts (B) from the two mounting studs located at the lower center of the rear shroud. Fig. 13.
4. Insert one end of the snapstat into the seam at the lower shroud and secure it with one #10 x 1/2" sheet-metal screw from the parts bag, (A, Fig. 16). Use another sheet metal screw to fasten the shroud at the adjacent hole, (B, Fig. 16). Fasten the blower assembly to the studs with the two hex nuts previously removed and one of the star washers from the Fan Kit parts bag, (C, Fig. 16).
5. Pass the rheostat cord under the firebox. Set the Control Panel (found in the Parts Bag) in rough position in front of the firebox. See Figure 17. Align the locating pin on the rheostat stem with the smaller hole in the Control Panel. Fasten the rheostat stem to the Control Panel with the retaining collar. Leave the Control Panel off until after you have attached the gas line and connected the switch wires.

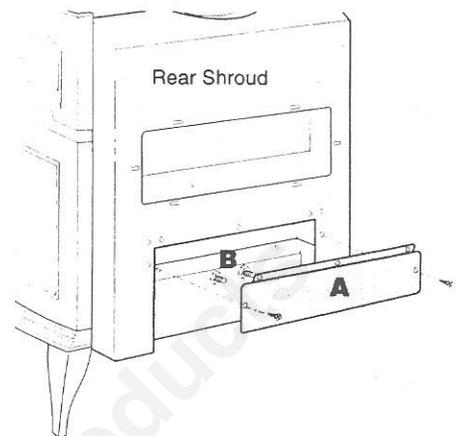


Figure 15. Remove the cover plate, and hex nuts from the rear shroud.

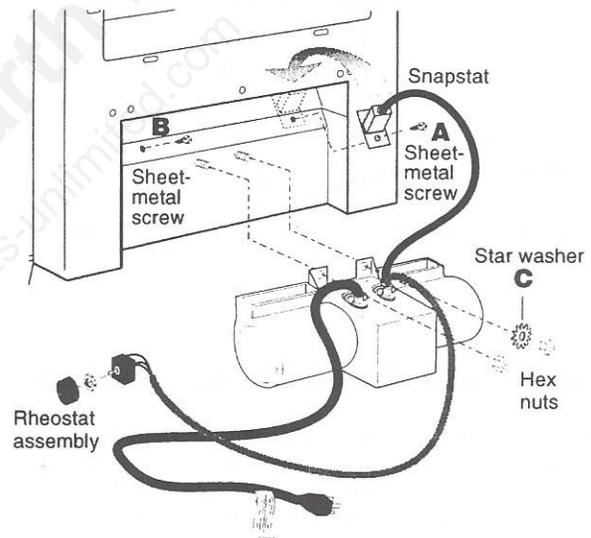


Figure 16. Attach the snapstat and fan assembly to the rear shroud.

WARNING

THIS APPLIANCE IS EQUIPPED WITH A THREE-PRONG (GROUNDED) PLUG FOR YOUR PROTECTION AGAINST SHOCK HAZARD AND SHOULD BE PLUGGED DIRECTLY INTO A PROPERLY GROUNDED THREE-PRONG RECEPTACLE. DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THIS PLUG.

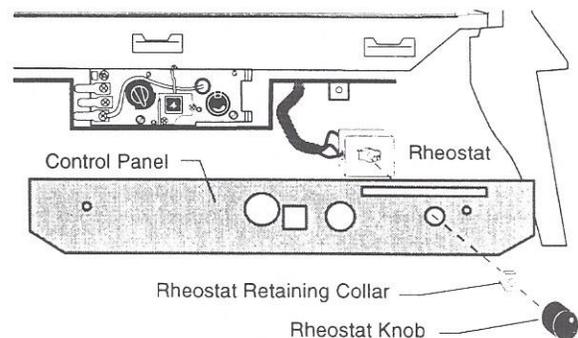


Figure 17. Attach the fan rheostat to the Control Panel.

Fan Kit Assembly, cont'd.

- Use three of the #10 x 1/2" sheet metal screws to reattach the rear shroud cover plate as shown in Fig. 18. Finish securing the shroud to the firebox draft hood assembly using first four #10 x 1" sheet metal screws (A) and then six #10 x 1/2" sheet metal screws (B) and at the locations shown in Fig. 16.

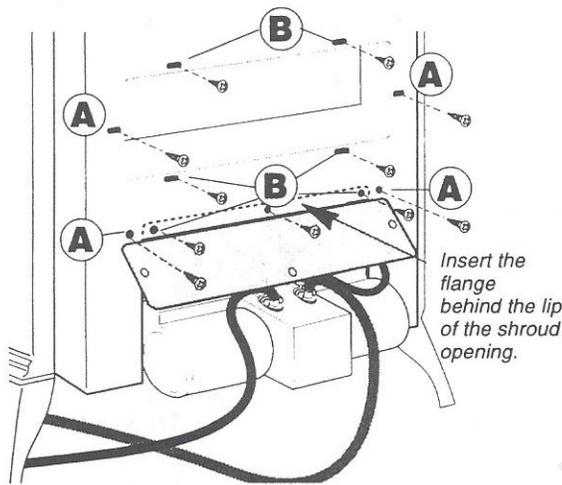


Figure 18. Reattach the cover plate and secure the rear shroud to the firebox draft hood assembly.

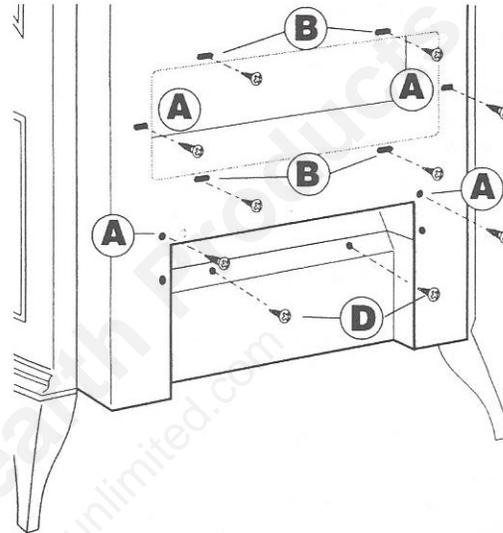


Figure 18a. Fasten the rear shroud to the firebox heat exchanger panels.

Secure the Shroud to the Firebox

If you are not installing a fan kit, follow this procedure to complete the stove assembly. Be sure that the firebox is pushed fully back against, and in contact with, the shroud. You may find that fastening the shroud panel to the firebox draft hood ducting proceeds most easily if you secure the screws in the following sequence.

- Remove the cover plate from the rear shroud as shown in Figure 15. You do not need to remove the hex nuts from the studs.
- Secure two #10 x 1" sheet metal screws (A) at the midpoint of the upper opening.
- Fasten four #10 x 1/2" sheet metal screws (B) around the upper opening, the upper two first.
- Use the remaining two #10 x 1" sheet metal screws at the lower outermost left and right holes (C). It may be necessary to push against the flange from the inside to get the screws started.
- Secure the two lower, inside screws (D).
- Use two #10 x 1/2" sheet metal screws to replace the lower cover plate as shown in Fig. 18b.

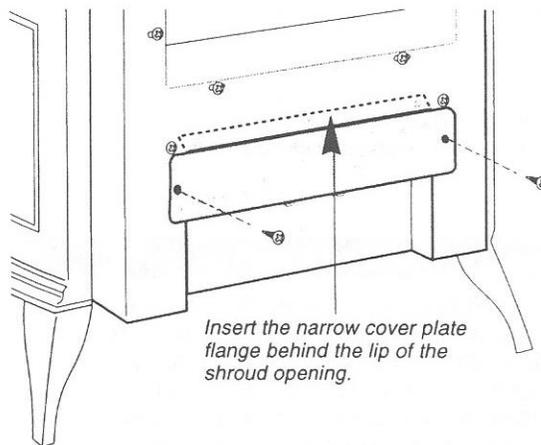


Figure 18b. Secure the cover plate with two #10 x 1/2" sheet metal screws.

Venting System Assembly

General Information

The Stardance SNV30 Heater is approved for installation only with listed 4" (100mm) Type B venting components. Do not mix types of 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 6" (150mm) diameter pipe, around the Type B venting, for decorative purposes only.

The SNV30 stove includes a vent safety switch. 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.

A mounting bracket (and #10 x 1/2" sheet metal screw) is included in the parts bag for installing decorative 6-inch (150mm) diameter round stove pipe around the Type B vent pipe, for appearance purposes only. The decorative pipe need not be concentric with the Type B vent pipe. See Fig. 20.

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 or .2) installation code.

Paint Option for Enamelled Stoves

If you wish to match the decorative or vent pipe to the color of the stove, paint the pipe before installation. Use only a high-temperature paint. Paint only in a well-ventilated area. Mask the surroundings to prevent overspray. Apply the paint lightly; two light coats will result in a better finish than a single heavy coat. Let the paint dry thoroughly before handling painted parts.

Install the Vent Pipe

The connecting collar for the venting system is on the top of the draft hood/heat exchanger assembly. Use a B-vent adapter, from the same source as the rest of the B-vent components, to join the first section of venting to the draft hood.

Insert the B-vent adapter into the flue collar and drill three 1/8" (3mm) pilot holes through both the adapter and the stove's collar. Attach the adapter to the collar with sheet metal screws, (not provided). See Figure 19.

Attach the first section of venting to the B-vent adapter. 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. See Figure 6, page 5, for details on joining the decorative pipe at the ceiling. Complete the venting according to the vent maker's instructions.

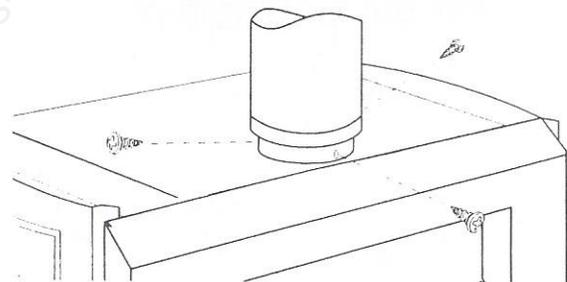


Figure 19. Use three sheet metal screws (not supplied) to attach the B-vent adapter to the flue outlet.

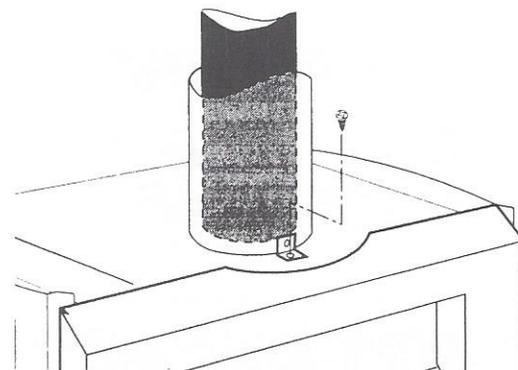


Figure 20. Install mounting bracket and decorative pipe over the B-vent pipe.

Install the Log Set

1. Remove the logs from their container, and inspect each piece for damage. **DO NOT INSTALL DAMAGED LOGS.**
2. Push the burner assembly fully to the rear, by hand. Place the Right (1) and Left (2) front Ember Log sections in the slot at the front of the firebox, as in Fig. 21. Reach to the back of the burner and pull the burner tray fully forward against the Ember Logs.
3. Install the Rear Log (3) by engaging it with the pins on the sheet metal shelf at the back of the firebox as in Fig. 21.
4. Install the Right and Left Middle Logs (4 & 5) by engaging the pockets in the bottoms with the pins on the burner brackets. Fig. 22.
5. Loosely sprinkle some of the lava rocks directly on top of the burner between the Ember Logs and the Middle Logs. Do not place any lava rocks behind the middle logs. See 6, Fig. 23.
6. Engage the right Upper Log (7) with the Rear Log and the left Middle Log as shown in Fig. 23. Lastly, engage the Top Log (8) with the right Upper Log and left Middle Log as shown in Fig. 23.

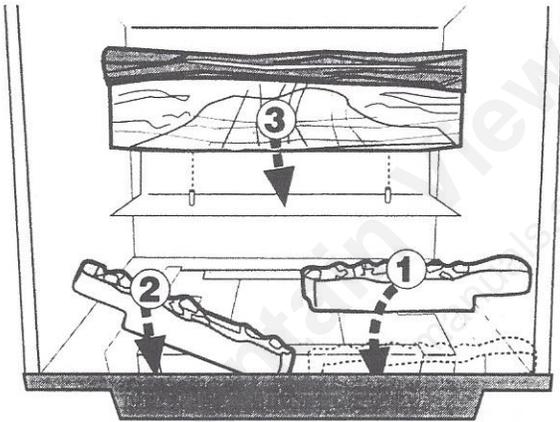


Figure 21. Install the Ember Logs and Rear Log.

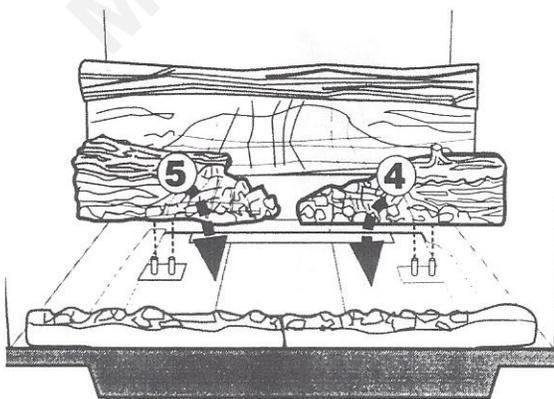


Figure 22. Install the back, left, and right logs.

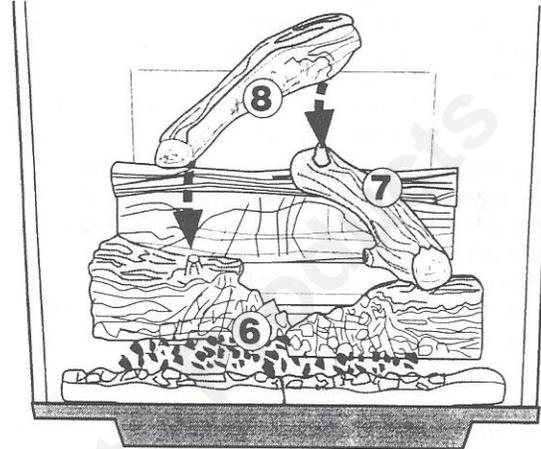


Figure 23. Install the two top logs; engage pegs on the middle logs with pockets on the bottoms of the top logs.

Connect the Gas Supply Line

Check the rating plate attached to the firebox by a cable, to confirm that you have the appropriate firebox for the type of fuel to be used. The SNV30 stove is not convertible between fuels.

In the U.S., gas connections 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 your local authority.

In Canada, consult the local authority and the CAN/CGA-B149 (.1 or .2) 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. **NEVER test with an open flame.** Light the pilot according to the directions on page 16, before going to the next step.

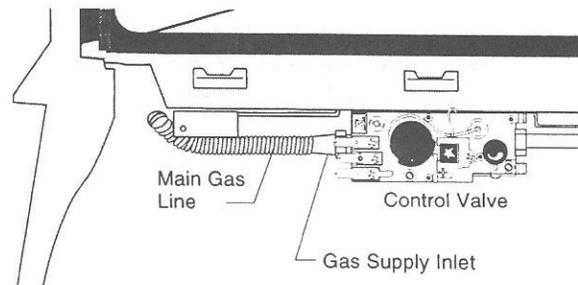


Figure 24. Attach the gas line to the left side of the valve.

CAUTION

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

The SNV30 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 SNV30 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 (3.5 kPa).

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

With Natural Gas, use a 3/8" or 1/2" natural gas supply line with an input of 30,000 BTUs at a manifold pressure of 3.5" and minimum inlet supply for adjustment of 5.0" W.C.

With Propane, use a 3/8" or 1/2" propane gas supply line with an input of 30,000 BTUs at a manifold pressure of 11.0" and minimum inlet supply for adjustment of 11.0" W.C.

Replace the Glass Panel

Position the glass panel frame against the firebox placing its bottom edge on the brackets at the bottom face of the firebox. Push the assembly against the firebox, and close the latches firmly around the retainer pins on the firebox top.

Connect the Wiring Harness to the Control Valve

1. Run the wiring harness down through the interior, between the firebox and the rear shroud, behind the back edge of the firebox base, and under the firebox to the valve.
2. Attach the female flag connector with the black and white wires to the top terminal (the 'TP/TH' terminal) on the gas control valve. Attach the connector with the red wire to the bottom terminal (the 'TH' terminal). See Figure 25.

Any loose wire may be coiled up and positioned between the valve wiring and tubing coil or use a wire tie to keep it up out of the way.

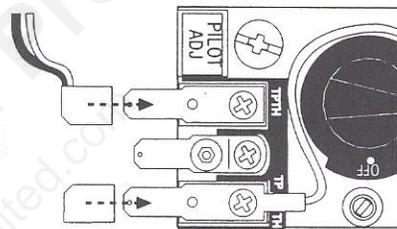


Figure 25. Attach the switch wires to the valve.

Install the Valve Cover Plate

Use the two remaining sheet metal screws from the parts bag to attach the Cover Plate over the control valve at the front of the stove. See Fig. 26.

The bottom ends of the Rating Plate and Operating Instruction Plate should protrude through the slot on the right upper side of the valve cover plate. These plates are permanently attached to the stove bottom by a wire cable.

Capture the wiring harness (and the fan rheostat cord, if a fan is installed) against the left rear corner of the assembly with the wire tie from the parts bag.

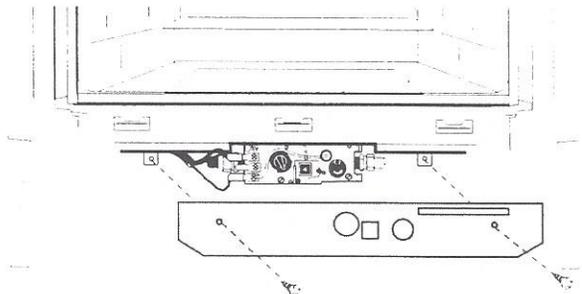


Figure 26. Replace the valve cover plate with two bolts and two nuts.

Install the Front and Top Plates

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. Figure 27. Then seat the Front against the sides so that 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 edge of the side plates should seat into the channel in the underside of the Top. Figure 27a.
3. Place the cast iron Grille on the Top plate.
4. (Optional) Attach the decorative pipe (if installed) to the draft hood/heat exchanger with the small bracket and last sheet metal screw provided in the parts bag. The decorative pipe and the vent pipe need not be concentric.

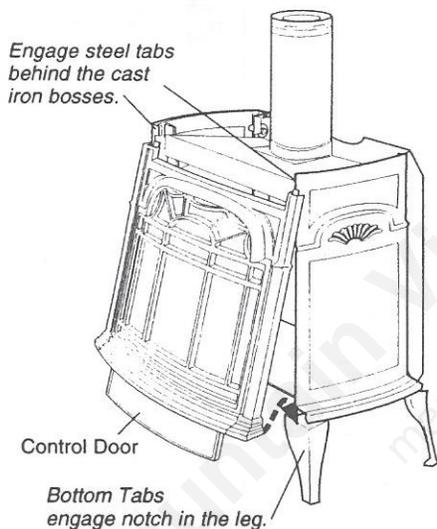


Figure 27. Install the Front Plate.

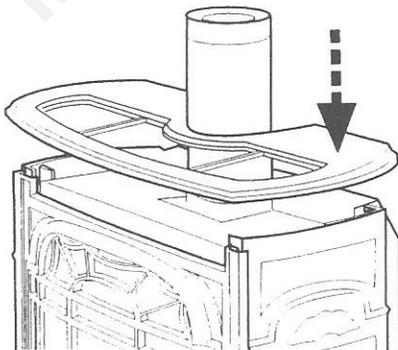


Figure 27a. Install the Top Plate.

Thermostat Connection (optional)

Use only a thermostat rated at 500 millivolts. Check the table below for the appropriate gauge thermostat wire to use for the length of lead required in your installation.

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. The two leads with 1/4" female connectors extend from the wire harness, accessible from under the left rear side of the stove. Either thermostat wire may connect to either terminal. Figure 28.

Thermostat Wire Gauge	Maximum Run
18	40 ft.
20	25 ft.
22	16 ft.

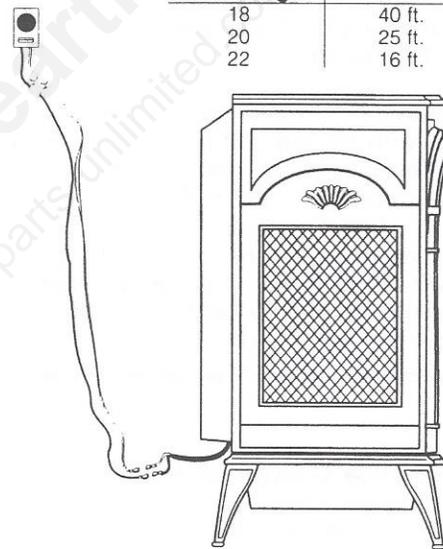


Figure 28. Attach leads for an optional thermostat to the connectors at the lower left rear corner of the stove.

This completes the assembly of the Stardance SNV30 stove.

Operation

Your First Fire

Read these instructions carefully and familiarize yourself with the burner controls shown in Figures 29 and 33. Locate the pilot assembly shown in Fig. 30. Follow the lighting instructions on Pages 16-17 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 pattern appear as shown in Figures 31 and 32. 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 flame is correct.

Follow regular maintenance procedures as described on Page 19-21.

3-Way Switch Settings

ON: Continuous burning.

OFF: Gas is shut off.

T'STAT: Gas flow to burner is controlled by external thermostat setting.

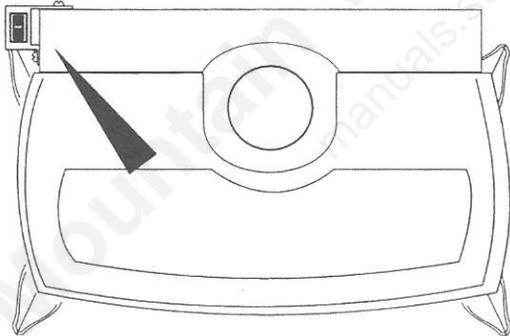


Figure 29. 3-way Control Switch location.

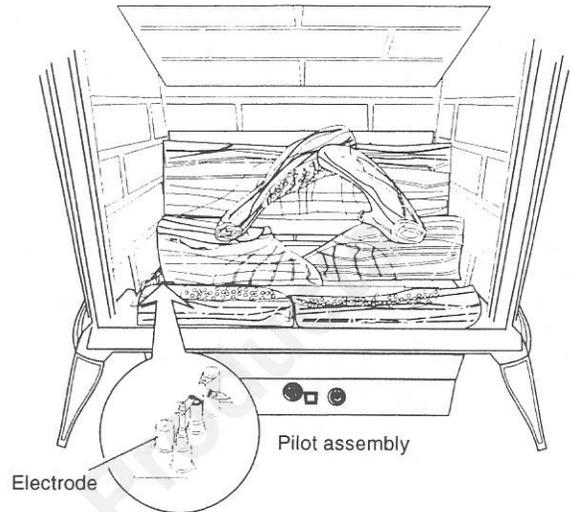


Figure 30. Pilot Assembly location.

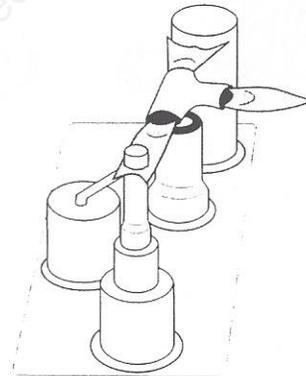


Figure 31. Correct pilot flame pattern.

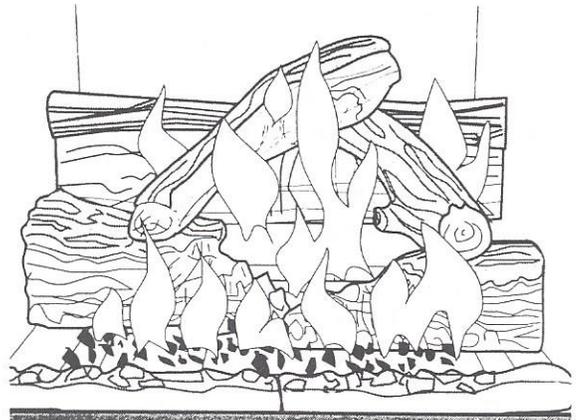


Figure 32. Correct burner flame pattern.

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 Access Door below the glass panel.

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

Before lighting the pilot, make sure that the valve knob is in the OFF position by pushing in the gas control knob slightly and turning it clockwise to "OFF." Also, set the T'STAT/OFF/ON rocker switch, located at the rear of the appliance, in the OFF position.

3. Turn the Regulator Control Knob clockwise to HI.
4. 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.

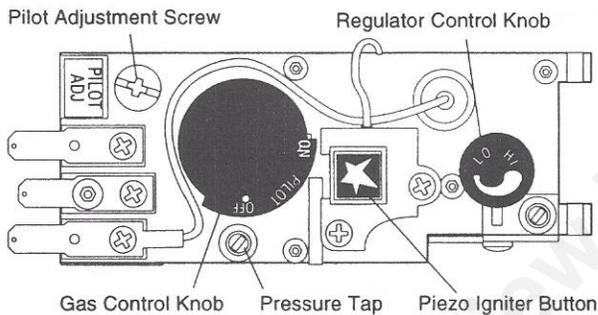


Figure 33. Valve Controls (Cover plate removed)

5. Locate the pilot under the front log in the lower forward left hand corner of the firebox. 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 spring 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. Set the T'STAT/OFF/ON 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 3-way control switch ON, immediately set the switch to OFF. Allow fifteen (15) minutes for the gas to clear from the firebox. Repeat from Step 2.

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

WARNING

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

Turning Off the Fire

1. Simply push the T'STAT/OFF/ON to 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. Set the T'STAT/OFF/ON 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:

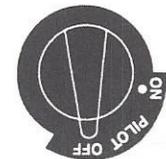
- Shut off all gas to the appliance.
- Do not try to light any gas appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call 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, don't try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

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

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Turn off all electric power to the appliance.
3. Turn the thermostat to the lowest setting, (if applicable).
4. Place the T'STAT/OFF/ON switch in the OFF position.
5. Push in gas control knob slightly and turn clockwise  to "OFF."



Control Knob

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 on this label. If you don't 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 logset in the forward lower left area of the firebox.

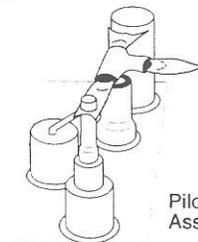
9. Push in control knob all the way and hold in. Immediately light the pilot by pushing the ignitor button. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 9.

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

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

11. Place the T'STAT/OFF/ON switch in the ON or T'STAT position.

12. Turn on all electric power to the appliance.



Pilot Assembly

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.

Troubleshooting / Honeywell #8420 Gas Control System

NOTE: Before troubleshooting the gas control system, be sure the external gas shut-off 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 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 100 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 an/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 SNV30 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 log set 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 Front Plate up and then swing the bottom out to disengage it from the heater shell. Figure 34.
3. Carefully remove the glass and frame assembly by pulling the swivel latches out to the sides. Place the panel 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.**

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.**

5. Replace the Glass panel and frame assembly.
6. Replace the Front Plate.

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, and cover plate. Apply the paint sparingly; two light coats of paint will give better results than a single heavy coat.



CAUTION

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

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.

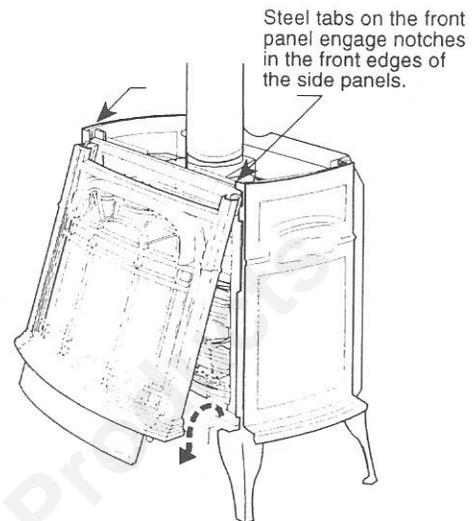


Figure 34. Remove the front plate.

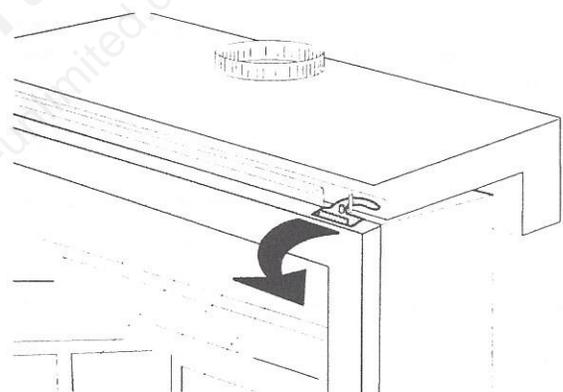


Figure 35. Release the latches to release the glass frame.

Cleaning the Glass

Clean the glass only with a soft, damp cloth. Do not use abrasive cleaning agents. Take care to avoid striking the glass.

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

Glass Replacement

Replace glass only with Vermont Castings Part #160-1691. Do not use substitutes. See Figure 58 and previous instructions for removal of the damaged glass panel. Do not operate the heater with the glass that is damaged, cracked, or missing.

Gasket Replacement

The SNV30 Gas Heater uses a 'tadpole' type gasket to seal between the glass panel and the frame. The gasket material has a self-adhesive inside surface that is applied to the glass panel. The gasket is then glued to the steel frame. In time, this gasket can become brittle and compressed and should be replaced. New gasket is available from your dealer; specify part number 120-3702.

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

1. Remove the Front, Glass Frame and Glass Panel. Figures 34 and 35. 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.
2. Determine the correct length of gasket by laying it out around the edge of the glass. Allow an extra 1-2" (25-50 mm), and mark the spot to be cut. Use a utility knife.

IMPORTANT NOTE:

On the SNV30 **with NG burner, the gasket is applied all around the glass perimeter.** See Fig. 36a.

On the SNV30 **with LP burner, the gasket is applied to wrap around only one long side and the two short sides.** The ungasketed edge should be oriented in the bottom of the steel frame. See Fig. 36b.

Check the Rating Plate (protruding from the control panel on the front of the stove) to confirm fuel type.

3. Starting on a long edge, (or a short side corner of LP heater) remove about 6" of the protective paper strip and apply the flat adhesive face of the gasket around the outside-facing edge of the panel. Continue around the panel, applying about 6" at a time and being careful to not stretch the material. Do not overlap the gasket ends. Figure 36.
4. Apply a thin bead of silicone rubber sealant along the inside surface of the steel frame, as indicated in Figs. 36a or 36b, whichever is appropriate for your fuel type.
5. Orient the glass panel so that the **flat side** of the gasket contacts the sealant within the frame. The glass panel should be centered within the width and resting on the bottom shelf of the frame. See Fig. 36c. **For LP heaters, the ungasketed edge of the glass should be at the bottom of the frame.** See Fig. 36d. Pinch the rounded inside-facing gasket material to bulk it up.
6. Replace the frame and glass assembly on the front of the stove, and fasten it by engaging the two pivot latches with the retainer posts at the top corners.
7. Replace the front as shown in Figure 34. Swing the bottom of the front panel into place against the sides panels, and engage prongs on the bottom corners with notches in the tops of the stove legs. The front is in place properly when you cannot pull it toward yourself without also lifting it.

Figure 36. Wrap the gasket material around the edge of the glass.

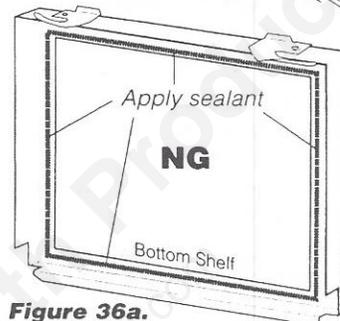
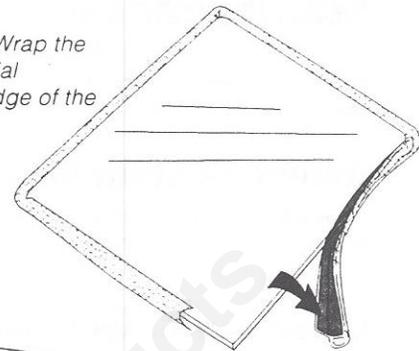


Figure 36a.

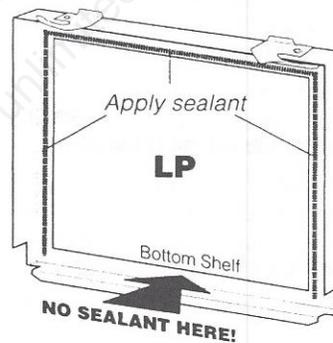
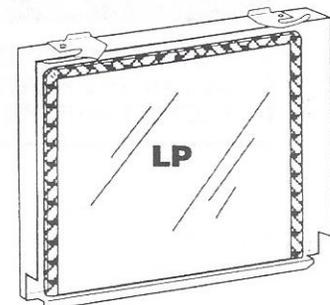


Figure 36b.

Figure 36c. Center the glass panel within the opening and rest it on the bottom shelf.



Figure 36d. No gasket on the bottom.



Check the Gas Flame Regularly

To ensure that the stove is operating properly, check the flames periodically to confirm that they match Figure 37. The flame pattern should be evenly distributed throughout the log set. The flames will be blue during the first 15-20 minutes of operation, and will gradually turn to yellow after that.

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

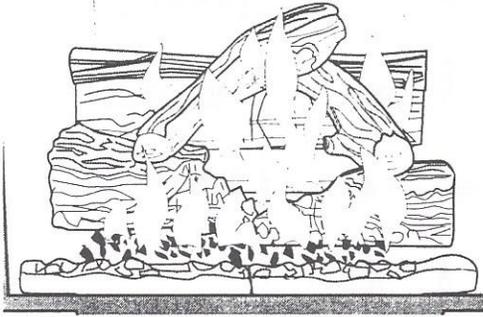


Figure 37. Correct flame pattern.

Stove Disassembly

If there is ever a need to remove the firebox assembly from the stove shell, support the firebox with solid blocks, approximately 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.

Remove the Firebox

1. Disconnect the on/off switch wires from the valve.
2. If the assembly includes the optional fan, disconnect the fan rheostat from the valve cover plate.
3. If the installation includes a wall thermostat, disconnect the thermostat leads from the connections shown in Figure 28, page 14.
4. Remove all twelve sheet metal screws that fasten the rear shroud to the firebox draft hood. See Figs. 18a-b, page 10.

Disconnection and re-connection of the gas line should only be done by a qualified gas service technician.

On re-installation, the vent system must be secured to the firebox as shown in the installation chapter, page 11. Also be sure the logs are placed in the firebox correctly, as shown in Figures 21-23, page 12.

CAUTION

THE APPLIANCE AREA MUST BE KEPT FREE AND CLEAR OF COMBUSTIBLE MATERIALS, GASOLINE, AND OTHER FLAMMABLE VAPORS AND LIQUIDS.

THE FLOW OF COMBUSTION AND VENTILATION AIR MUST NOT BE OBSTRUCTED.

Burner Adjustment

Two air shutters, located on the burner, have been set at the factory for either Propane or Natural gas and should not require further adjustment. Installation characteristics vary, however, and adjustment may be necessary to improve flame picture or eliminate sooting. Generally, the shutter openings should be set to the dimensions noted in Fig. 38. Closing the shutters, (less air), produces a yellow flame, (more prone to sooting). Opening the shutters, (more air), produces a bluer flame. After adjusting the shutters, the stove should be burned for at least one hour to see the effect of the setting change. If soot appears on the glass, logset, or firebox, the air shutters must be opened to eliminate the condition.

Adjustment should be made only by a qualified gas technician.

1. Shut off the gas supply to the stove. Turn off all power to the stove. Remove the Front Panel, Glass, and Log Set as described on Page 19.
2. Remove the left and right log brackets. Lift the left end of the burner, slide it to the left and lift it out of the firebox to access the air shutters on the right end of the burner.
3. Loosen the shutter locking screws enough to adjust the setting as needed and re-tighten. Figure 62.
4. Set the burner back into the firebox, taking care to ensure that the ends of the shutter tubes fully engage with the injectors.
5. Replace the log brackets, logs, glass, and Front Panel. Refer to the assembly chapter for details.

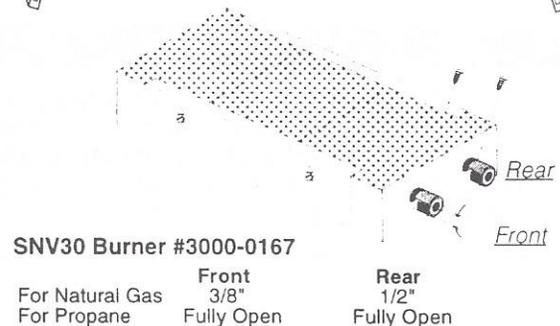
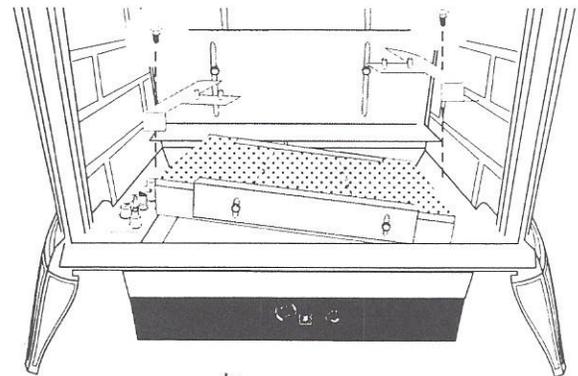
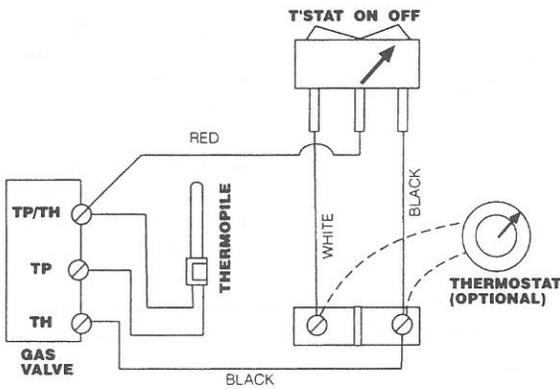


Figure 38. Burner removal and air shutter settings.

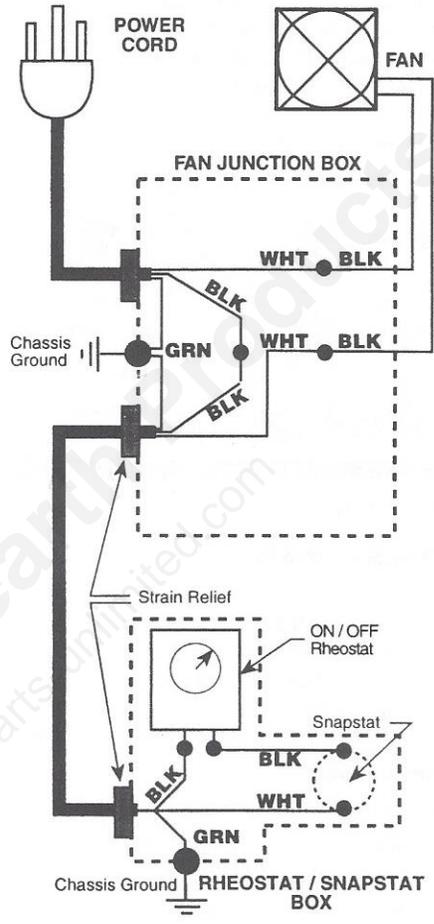
Wiring Diagrams

Figure 39. SNV30 Firebox Circuit.

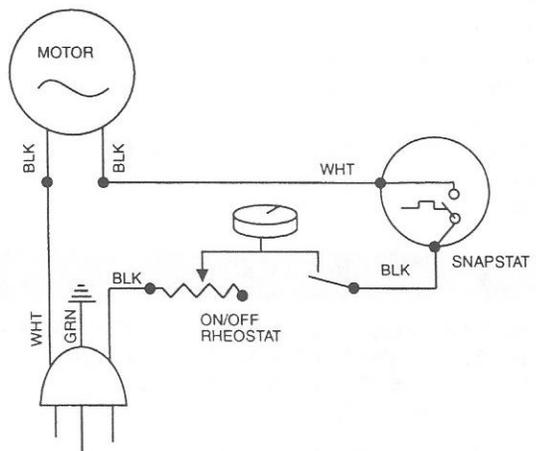


NOTE: IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THE APPLIANCE, MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE SF-2, 200°C WIRE OR ITS EQUIVALENT.

Figure 40. SNV30/ Convection Fan Circuit



CONNECTION DIAGRAM



SCHEMATIC DIAGRAM

CAUTION
 LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

STARDANCE SNV30 PARTS ILLUSTRATION

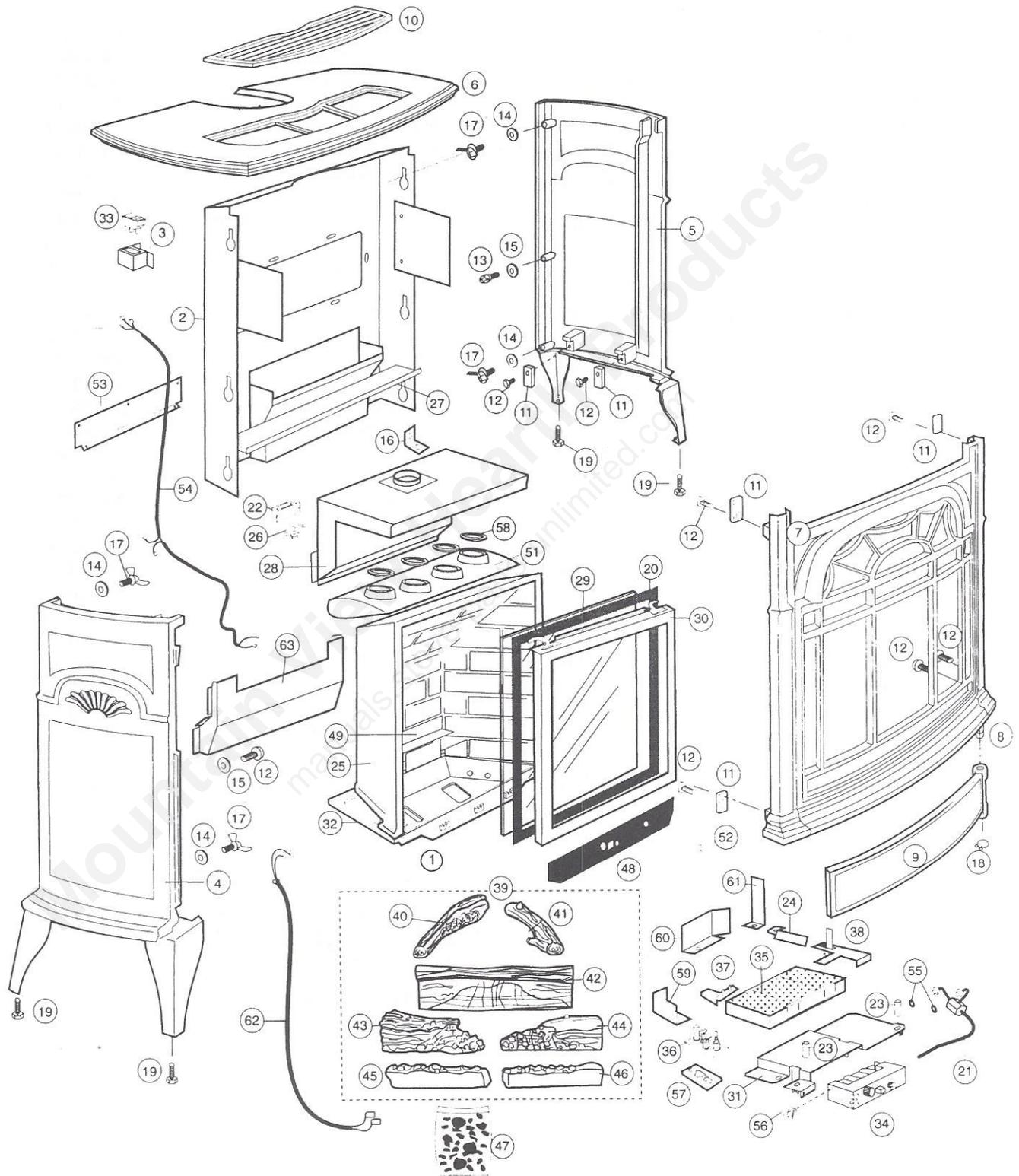


Figure 41. Illustrated Parts Diagram.

STARDANCE SNV30 PARTS LIST

SNV30 FIREBOX #2943 (NG) AND #2944 (LP)

1.	Firebox Assembly / NG	000-2943	33.	OFF/ON Switch	160-1597
	Firebox Assembly / LP	000-2944	34.	Control Valve (NG)	3000-0029
2.	Rear Shroud	3000-0082		Control Valve (LP)	3000-0030
3.	Switch Housing	3000-0224	35.	Burner Assembly (NG or LP)	3000-0167
4.	Left End*	130-1113	36.	Pilot Assembly (NG)	160-1979
5.	Right End*	130-1114		Pilot Assembly (LP)	160-1980
6.	Top Plate*	3000-0079	37.	Left Log Bracket	3000-0191
7.	Front Plate *	130-1084	38.	Right Log Bracket	3000-0222
8.	Control Door Hinge	160-1670	39.	Gas Log Set (Includes #40-46)	3000-0066
9.	Control Door	130-1087	40.	Top Left Log	3000-0133
10.	Top Grille	3000-0159	41.	Top Right Log	3000-0132
11.	Steel Tab	160-1488	42.	Rear Log	3000-0129
12.	1/4-20 x 3/8" Phillips Screw	120-0993	43.	Middle Left Log	3000-0131
13.	1/4-20 x 1/2" Phillips Screw	120-1338	44.	Middle Right Log	3000-0130
14.	Washer, Wingbolt	120-2470	45.	Left Ember Strip	3000-0135
15.	Washer	120-2474	46.	Right Ember Strip	3000-0134
16.	Pipe Bracket	3000-0151	47.	Lava Rocks (1 package)	57897
17.	1/4-20 Wingbolt	120-3110	48.	Control Panel	3000-0210
18.	Snap Ring	120-1987	49.	Rear Log Bracket	3000-0067
19.	Levelling Bolt	120-1745	50.	Side Shield, 2	140-9065
20.	Glass	160-1691	51.	Firebox Cap	3000-0078
21.	Manifold Assembly (NG)	3000-0070	52.	Hole plug	160-0561
	Manifold Assembly (LP)	3000-0071	53.	Rear Shroud Cover Plate	3000-0196
22.	Vent Safety Switch Bracket	3000-0150	54.	Wire Harness	160-1913
23.	Spacer	3000-0139	55.	Injector Seals	120-3697
24.	Air Deflector (NG only)	3000-0242	56.	ECO Connector	3000-0069
25.	Firebox	3000-0057	57.	Pilot gasket	120-3685
26.	Vent Safety Switch	51866	58.	Tower Gasket, 4	3000-0197
27.	Air Inlet	3000-0118	59.	Pilot shield	3000-0213
28.	Draft Hood/Heat Exchanger	3000-0080	60.	Inlet Air Deflector	3000-0218
29.	Glass Panel Gasket	120-3702	61.	Rear Log Air Deflector	3000-0220
30.	Glass Frame Assembly	3000-0127	62.	Vent safety switch wiring harness	3000-0108
31.	Bottom Heat Shield/Valve Bracket	3000-0211	63.	Upper fan air channel	3000-0237
32.	Firebox Bottom	3000-0190			

Note: In this parts list and throughout the manual, 'left' and 'right' mean *as you face the stove*.

*When ordering exterior parts, be sure to specify color.

For replacement parts, or for information about parts or service, contact your local dealer. For the name of the dealer nearest you, call or write:

The Majestic Products Co.
1000 E. Market St.
Huntington, IN. 46750-2579 U.S.A.
1-219-356-8000

Warranty

Limited Three Year Warranty

Vermont Castings, Inc. 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.

Vermont Castings, Inc. will repair or replace, at its option, any part found to be defective upon inspection by a Vermont Castings 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 Authorized Dealer with postage prepaid.

Exclusions and Limitations

1. This warranty is transferable; however, proof of original purchase is required.
2. Vermont Castings 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 representative in writing.
4. This warranty does not cover a stove repaired by someone other than either a Vermont Castings 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 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. Vermont Castings shall have no obligation to enhance or update any unit once manufactured.

8. 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.

IN NO EVENT SHALL VERMONT CASTINGS 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 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. Vermont Castings 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 Purchased _____
Installer _____

Phone _____
Date Installed _____

**INSTALLER:
PLEASE KEEP THIS MANUAL
WITH THE HEATER
AFTER INSTALLATION.**

**IT CONTAINS IMPORTANT
OPERATION, MAINTENANCE,
AND
WARRANTY INFORMATION.**



VERMONT
CASTINGS

THE
MAJESTIC
PRODUCTS COMPANY

1000 East Market St. • Huntington, IN 46750-2579 • 219-356-8000