

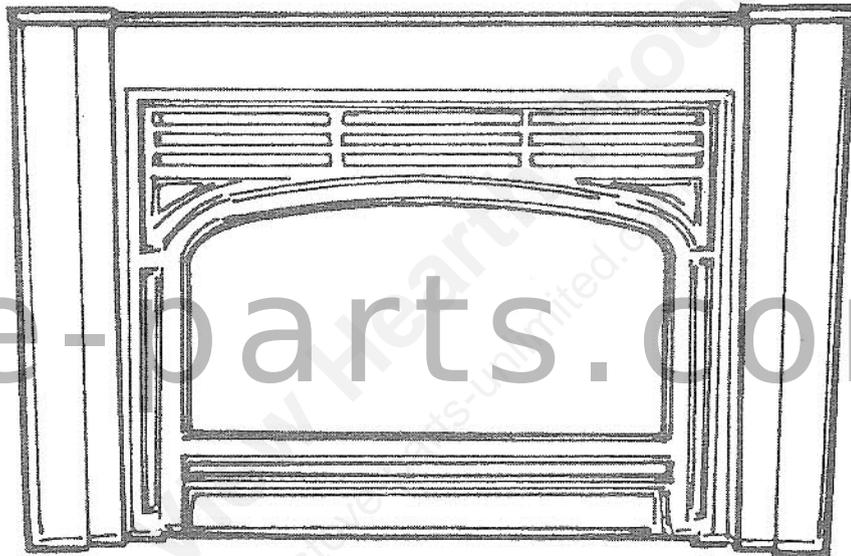
# Golden Warm™

Model 2290

Gas Insert

## Owner's Guide

For use in North America



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

### FOR YOUR SAFETY WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone.  
Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

### FOR YOUR SAFETY

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

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VERMONT CASTINGS, INC.

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The Vermont Castings' GoldenWarm Gas Insert is a vented gas appliance listed to the ANSI standard Z21.50b-1990 and CAN/CGA - 2.22-M86 for Vented Decorative Appliances.

The installation of the GoldenWarm Gas Insert 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 - B/49 Installation Code.

**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 GOLDENWARM GAS INSERT 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 GOLDENWARM GAS INSERT BE KEPT CLEAN.**

The GoldenWarm Gas Insert and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig.

The GoldenWarm Gas Insert 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.

The draft hood relief opening 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.

The GoldenWarm Gas Insert, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with National Electrical Code ANSI/NFPA 70 — latest edition.

**DUE TO HIGH TEMPERATURES THE GOLDENWARM GAS INSERT SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.**

**Warnock Hersey**



**WARNING: THE GOLDENWARM GAS INSERT IS HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING, AND FURNITURE AWAY. CONTACT MAY CAUSE BURNS OR IGNITION OF COMBUSTIBLE MATERIALS.**

**YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE GOLDENWARM GAS INSERT.**

**CLOTHING OR OTHER FLAMMABLE MATERIALS SHOULD NOT BE PLACED ON OR NEAR THE GOLDENWARM GAS INSERT.**

**ANY SAFETY SCREEN OR GUARD REMOVED FOR SERVICING AN APPLIANCE MUST BE REPLACED PRIOR TO OPERATING THE GOLDENWARM GAS INSERT.**

**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.**

**WARNING: DO NOT OPERATE THE GOLDENWARM GAS INSERT 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 THE GOLDENWARM WAS NOT DESIGNED. THE GOLDENWARM IS DESIGNED TO BURN EITHER NATURAL GAS OR PROPANE.**

## 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 LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not 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 on the panel above.
2. Turn off all electric power to the appliance.

3. 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.

4. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in safety information above. If you don't smell gas, go to the next step.

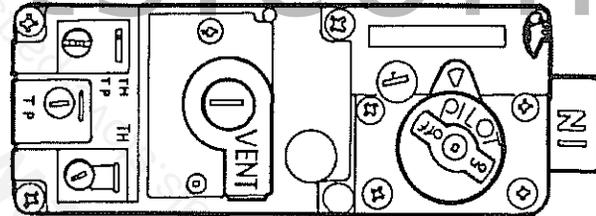
5. Turn knob on gas control counterclockwise  to "PILOT."

6. Push in control knob all the way and hold in. Immediately light the pilot, located under the front log in the lower left hand corner of the firebox, by pushing the red 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 3 through 5.

- 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 tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.

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

8. Turn on all electric power to the appliance.



## 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.

# Welcome

Congratulations on your choice of a Vermont Castings GoldenWarm Gas Insert. 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 joy and appreciation for the hearth, and we show it in all our cast-iron stoves and fireplaces.

At Vermont Castings, we are equally committed to your satisfaction as a customer. That is why we maintain an exclusive network of the finest dealers in the industry. These dealers are chosen for their expertise and dedication to customer service. They are factory-trained to know the most minute detail of every Vermont Castings product. We also maintain an in-house technical service staff to answer questions about your particular installation or product needs. Feel free to contact your Authorized Vermont Castings Dealer or us anytime you have a particular question about your fireplace or its performance.

Be assured that your cast-iron Vermont Castings insert has been made with the utmost care and will provide you with many years of service.

This manual contains valuable instructions on the installation and operation of your Vermont Castings fireplace. It also contains useful information on maintenance and assembly of this product. We urge you to read the manual before installing and operating your GoldenWarm and to keep this manual as a reference.

Sincerely,

*All of us at Vermont Castings*

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# Operation

Because of specific New York state requirements, gas appliances installed and operated in New York state must follow different procedures. The operating procedures for New York residents are explained below in the right column on this page. The different installation procedure for New York installations is explained in Step 18B on page 14 in the installation section.

To gain access to the gas control valve, open the valve control access door below the firebox opening.

## Lighting the Fire

Step 1. Before lighting the pilot, make sure that the valve is in the OFF position by pushing in the gas control knob slightly and turning it clockwise to "OFF." Also, put the remote switch in the OFF position.

Step 2. Smell for gas. Inspect the unit for any obvious sign of damage or deterioration. If damaged, do not attempt to light.

Step 3. Locate the pilot under the front log in the lower left hand corner of the firebox. When lit, the pilot will produce a small but steady flame. If the pilot is lit already, proceed to "Relighting the Fire" below.

Step 4. Turn the knob on the gas control counterclockwise to "PILOT."

Step 5. Light the pilot by pushing the control knob all the way in and holding it there. Immediately push the red ignitor button; push it more than once if required to light the pilot. 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.

Step 6. Turn the gas control knob counterclockwise to "ON."

Step 7. Turn on the remote switch and continue to watch the fire until the entire unit is lit.

Step 8. If you have purchased and installed the fan kit, the fan will come on automatically after approximately 15 minutes, or once the fireplace is producing sufficient heat. It will shut off automatically as well when the fireplace begins to cool. The fan will operate at the same level at which it was set during its previous operation.

## Turning Off the Fire

Step 1. Simply turn off the remote switch. The pilot will remain on. You can leave the pilot running. (It costs less than 1 cent an hour to run.)

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

Step 1. Check to see if the pilot is on.

Step 2. Turn on the remote switch and watch to be sure the entire burner lights.

## Lighting the Fire — (New York State)

*Because of state energy codes, decorative gas appliances installed in New York cannot have a standing pilot. The GoldenWarm New York model will completely shut off each time you turn off the unit. The pilot will have to be re-lit each time the appliance is used. Follow the directions below:*

Step 1. Before lighting, make sure that the valve is in the OFF position by pushing in the gas control knob slightly and turning it clockwise to "OFF." Also, put the remote switch in the OFF position.

Step 2. Smell for gas. Inspect the unit for any obvious sign of damage or deterioration.

Step 3. Locate the pilot under the front log in the lower left hand corner of the firebox. When lit, the pilot will produce a small but steady flame.

Step 4. Place the remote switch in the "ON" position.

Step 5. Turn the knob on the gas control counterclockwise to "PILOT."

Step 6. Light the pilot by pushing the control knob all the way in and holding it there. Immediately push the red ignitor button; push it more than once if required to light the pilot. 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.

Step 6. Turn the gas control knob counterclockwise to "ON."

## Turning Off the Fire

Step 1. Simply turn off the remote switch.

## Installer:

See Step 18B on page 14 of the Installation section for specific information for New York installations.

NOTE: If the unit will not be used for a few days, turn on the gas control to "OFF." If the insert won't be used for an extended period of time, it is a good idea to turn the gas supply manual valve to OFF as well.

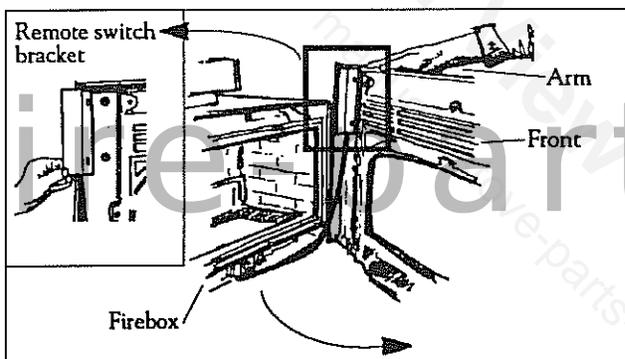
# Maintenance

## Removing the Front

The front is held to the firebox by Z-shaped clips that extend from the back side of the front, and slide over ears cast on the outside of the right and left sides of the firebox.

Step 1. Carefully lift the front so that the hooks disengage from the firebox and move it away from the firebox a few inches.

Step 2. Place padding (such as a piece of carpet remnant) under the right side of the front, and then pivot the left side forward as though you were opening a door hinged on the right side.



Pivot the left side of the front outward to gain access to the switch cover plate.

Step 3. Detach the switch mounting bracket from the upper left corner of the front's inside by removing the two screws.

Step 4. Move the front to a safe, padded area.

## Installing the Front

Step 1. Position the front perpendicular to the firebox, with the right sides of both close together. Re-connect the switch bracket that was detached previously; the bracket must be centered to install correctly.

Step 2. Pivot the left side backward so that it is close to the left side of the firebox. Carefully lift and position the front so that the retainer clips are behind the ears.

Step 3. Push the front down so that the clips extend as far as possible behind the ears. **CAUTION:** Do not grasp the front with your fingers positioned behind it to avoid chance of injury.

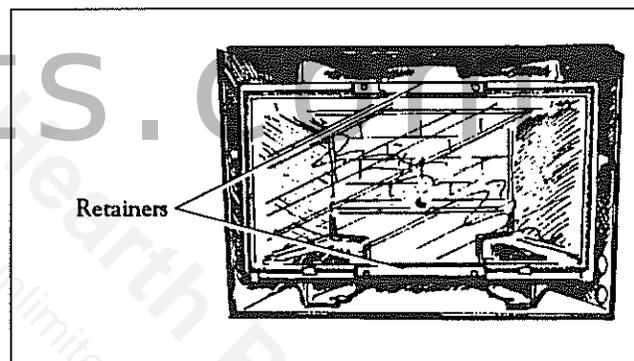
Step 4. To confirm that the clips are properly engaged, pull the front away from the firebox. If the front does not stay in place, go through the procedure once again.

## Removing the Glass

The glass is held in place by retainers at the top and bottom of the firebox opening, and is supported at the bottom by tabs extending from the bottom frame. Removal and installation of the glass is necessary to install the logs and the burner, as well as to gain access to the firebox for inspection and cleaning.

In the event that the glass panel is cracked or damaged, **REPLACEMENT SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON.** Use only Vermont Castings' glass panel part no. 160-1342.

Step 1. Remove the two 1/4-20 X 3/8" Phillips screws that secure the bottom retainer. Save the hardware for use in putting the glass back in place.



The glass is held in place at the top and bottom by retainers.

Step 2. Remove the two 1/4-20 X 1" Philips screws and nuts that secure the top retainer, being careful to support the glass to keep it from falling out when the second screw is removed. Save the hardware.

## Installing the Glass

Step 1. Carefully center the glass in position on the support tabs.

Step 2. Attach the top retainer with the two 1/4-20 X 3/8" Phillips screws and nuts that were removed previously. Secure it finger-tight, or sufficient to keep the glass from falling out.

Step 3. Attach the bottom retainer finger-tight with the two 1/4-20 X 3/8" Phillips screws that were removed previously.

Tighten the screws on the top and bottom retainers evenly and firmly, but do not over tighten them.

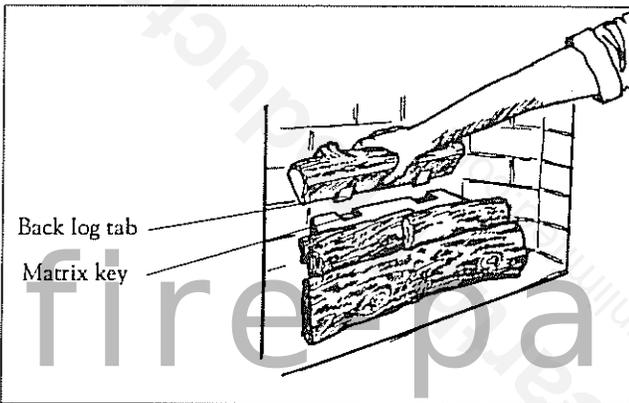
## Clean the Log Assembly and Burner Annually

Before you begin, close the manual shut-off valve located "upstream" of the appliance. Spread newspapers or a drop cloth in front of the fireplace, and use a soft-bristled brush, such as a paint brush.

The logs and the matrix are extremely fragile and must be handled carefully and brushed gently. When moving them, support them evenly. Use only a soft-bristled brush to clean them. Do not use a vacuum cleaner.

**Step 1.** Remove the front and glass as described on page 6.

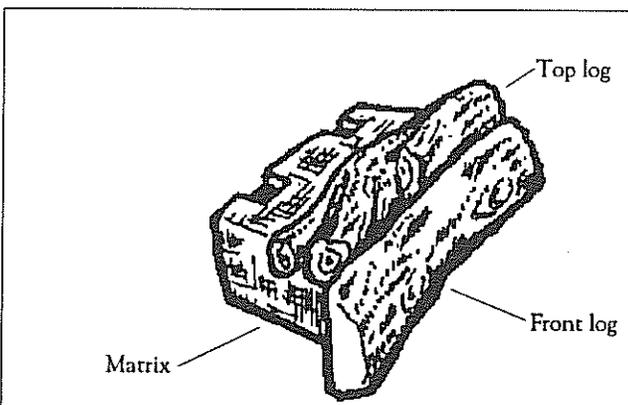
**Step 2.** Reach into the firebox and carefully remove the back log. Clean it gently with a soft-bristled brush, and place the piece to the side.



*Lift the back log carefully from the matrix.*

**Step 3.** The matrix, front log, and top log are assembled as a unit. Remove this assembly and gently brush the surfaces of the three components.

**Step 4.** Clean the burner by gently brushing the top surface, taking care not to damage or clog with debris the burner holes.



*The matrix, front log, and top log are assembled as a unit.*

**Step 5.** Replace the assembly; center it on the burner and push it to the rear as far as possible, making sure that the rib on the back of the front log is seated on top of the burner and that the sides sit flat on top of the burner.

**Step 6.** Replace the back log on the matrix so that the tabs on its bottom fit into the keys in the matrix. Push the back log as far back as possible until it rests against the fireback.

**Step 7.** Replace the glass and the front.

## Replace the Gaskets as Needed

Your gas insert uses 5/16" rope-type fiberglass gaskets to make a tight seal between the glass panel and the firebox, and between the front and the firebox. With use, these gaskets can become brittle and compressed and will need replacement.

Should you need to change the gaskets, first obtain an appropriate replacement from your Vermont Castings' Authorized Dealer.

Wait until the fire has been out sufficiently long for the fireplace to have cooled, and follow the standard safety procedure for working with dusty materials: Wear safety goggles and a dust mask.

The procedure for replacing gaskets is the same, regardless of the gasket location: Eight easily-accomplished steps are involved:

**Step 1.** Remove the existing gasket by grasping an end and pulling firmly.

**Step 2.** Use a wire brush or the tip of a screwdriver to clean the channel of any remaining cement or bits of gasket. Remove stubborn deposits of cement with a cold chisel if necessary.

**Step 3.** Determine the correct length of the appropriate-sized gasket by laying it out in the channel. Allow an extra 1-2" (25-50 mm), and mark the spot to be cut.

**Step 4.** Remove the gasket from the channel, place it on a wood cutting surface, and cut it at the marked spot with a utility knife.

Twist the ends slightly to discourage the gasket from unraveling.

**Step 5.** Lay an unbroken 1/8" (3 mm) bead of gasket cement in the newly-cleaned channel.

**Step 6.** Starting at one end, press the gasket into the channel.

Ensure a good joint where the gasket meets before trimming any excess. Do not overlap the gasket ends or leave ends with ragged edges.

**Step 7.** Press the gasketed part firmly against its normal mating surface to seat the gasket evenly in its channel.

**Step 8.** Clean any excess cement from around the channel, then let the cement that holds the new gasket dry thoroughly for at least 24 hours.

## Cleaning a Golden Warm's Painted Cast Iron Surface

An occasional dusting with a dry rag will keep the painted surface of a classic black GoldenWarm front looking new.

The paint can be touched up as needed. First, remove the mantel and/or fireplace front and place them carefully on a protected work area. Clean the areas to be painted with a wire brush. Cover any controls or trim with masking tape.

Then, touch up the cast iron with Vermont Castings' high temperature stove paint. Apply the paint sparingly: Two light coats of paint will give better results than a single heavy coat.

## Cleaning the Surface of a Porcelain Enamel Front

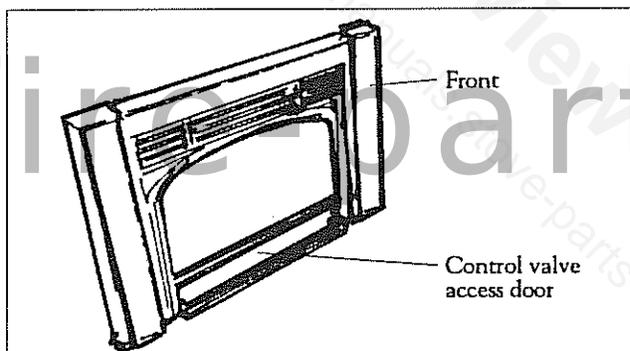
Use a dry or slightly damp rag or soft brush to clean a porcelain enamel surface. For difficult jobs that require a cleaning agent, use only a kitchen appliance cleaner or polish recommended for use on enamel surfaces.

## Cleaning the Glass

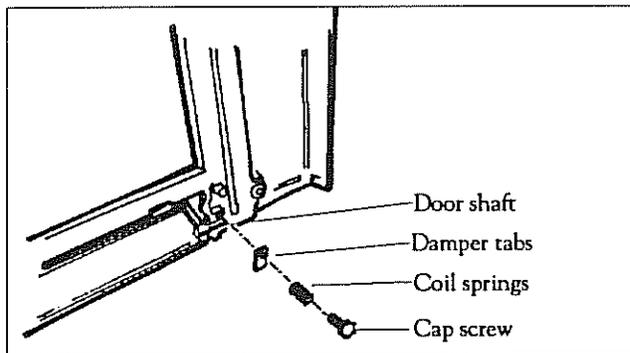
If operating on propane, it may be necessary to clean the inside of the glass occasionally. **DO NOT USE ABRASIVE CLEANERS.** A window cleaning fluid will work adequately.

## Adjusting the control valve access door

The Control Valve Access Door is located on the front of the insert, below the firebox opening. Opening the door gives access to the valve control for lighting the burner and shutting it off.



The door is hinged on the bottom. Shafts on the ends of the door are held against the rear of the front by damper tabs. Coil springs under the heads of the cap screws that hold the tabs in place put pressure on the tabs.



The door should be adjusted so that it stays closed when in the up position, but not so tight that it can't be lowered easily for access to the control. To make the door stay more firmly in position, reach in through the open door with a 7/16" wrench and tighten the screws on either end of the shaft 1/4 turn. To make the door open and close more easily, loosen the screws.

## Inspection of Venting System

The vent system must be inspected yearly by a qualified technician to confirm that it is unobstructed and in good condition.

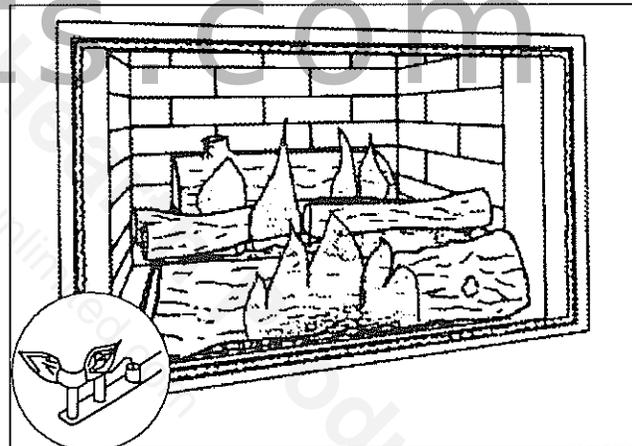
A flue inspection mirror, usually with a pivoting mirror head and a telescoping handle, can be used to check the vent connection. Insert the mirror through the narrow channel in the sheet metal above the firebox, angle it to provide an upward view, and use a flashlight to check the vent connection.

## Check the Gas Flame Regularly

To ensure that your GoldenWarm Gas Insert is operating properly, check the flames periodically to confirm that they are consistent with the description provided in the illustration below. The flames will be blue during the first few minutes, but will gradually change to yellow after about 15 minutes.

It is normal for an audible "pop" to occur after shutting off the burner as residual gas ignites.

If the flame is other than that described here, do not operate your GoldenWarm. Contact your Vermont Castings' Dealer or a qualified gas technician for assistance.



When it is operating properly, the GoldenWarm's flame pattern will resemble that shown above.

# Installation

The GoldenWarm Gas Insert is listed for installation in built-to-code masonry or pre-fabricated zero-clearance fireplaces (one tested and listed to UL 127).

The installation must conform with local codes or, in the absence of local codes, with the latest edition of the National Fuel Gas Code, ANSI Z223.1.

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.

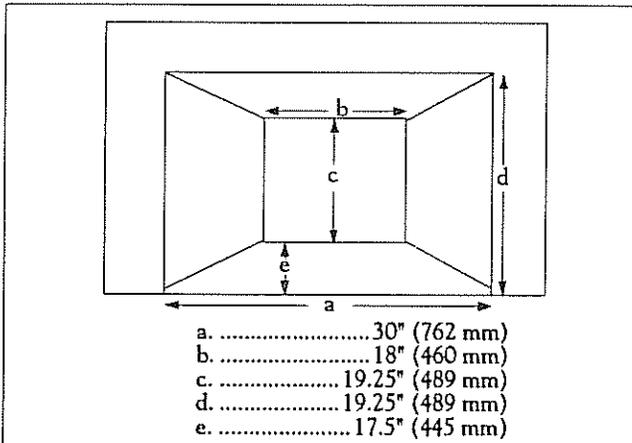
Your Vermont Castings dealer or your local gas supplier will be able to refer a qualified service person.

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

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

## Step 1. Confirm the fireplace size requirements.

The GoldenWarm Insert has been designed to fit into most fireplaces. The minimum fireplace dimensions into which it will fit are illustrated below.



## Step 2. Prepare the fireplace and chimney.

Remove any andirons, grates, glass doors, spark screen, etc. from the fireplace. Remove the chimney cap, if there is one, to allow cleaning of the flue and the later installation of the venting.

Thoroughly clean the chimney of any soot, ash, or obstructions, and clean the remaining ash from the fireplace.

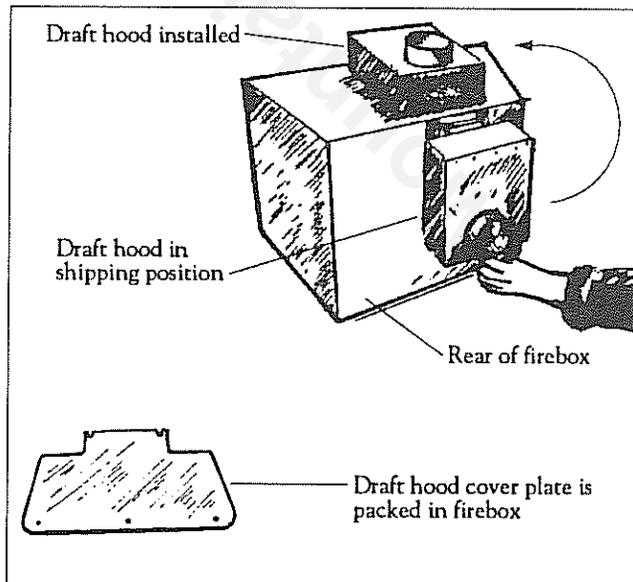
Lock the damper in the open position so that the 4" venting can pass through. If the damper opening is too small to allow passage of the 4" venting, it may be necessary to modify the area in a way that local codes allow. Check with local building officials before making any modifications.

## Step 3. Unpack the GoldenWarm Insert.

The GoldenWarm is shipped in three separate boxes that contain the firebox, the front, and the burner—either a natural gas burner or a propane burner. If the optional blower has been purchased, it will be in a fourth box.

The draft hood is temporarily attached to the rear of the firebox shroud for shipment. Unscrew the draft hood from the shroud, and place it aside until it is ready to be connected to the venting in Step 6. Replace the two (2) screws used to attach the draft hood during shipment.

The top cover plate is packed inside the firebox. This will be needed for Step 11.



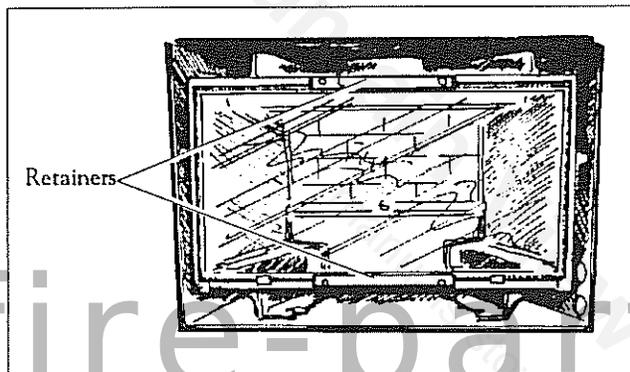
## Step 4. Install the optional blower.

If it has been purchased, the optional blower should be installed at this time before the burner, log set, glass or front are put in place, and before the gas line is connected. If it has not been purchased, proceed to Step 5.

Follow the procedure below to install the blower; the directions assume that you face the front of the firebox.

### a. Remove the glass

The glass is held in place by retainers at the top and bottom of the firebox opening, and is supported at the bottom by tabs extending from the bottom frame.



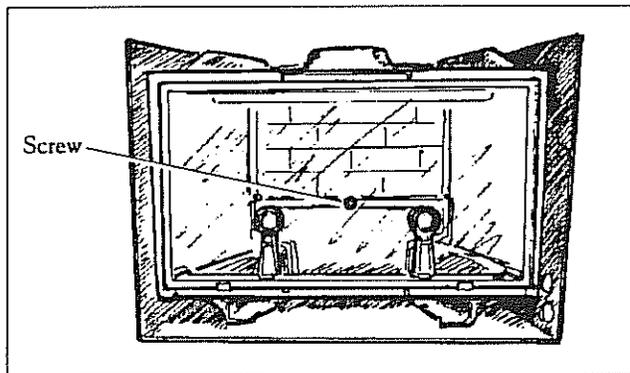
The glass is held in place by retainers at the top and bottom.

The bottom retainer is held to the tie bar by two 1/4-20 X 3/8" Phillips screws, and washers and nuts. Remove the washers and nuts. Save the hardware for use in putting the glass back in place.

The top retainer is held in place by two 1/4-20 X 3/8" Phillips screws that screw into the top of the firebox. Remove these two screws, being careful to support the glass when the second screw is removed. Save the hardware.

### b. Remove the lower back

One screw and washer at the top, center of the lower back hold the back in place. Use a 7/16" wrench to remove the screw. Lift the lower back from the firebox.



### c. Put the blower cable in position

The cable has a 3-prong plug on one end, two connectors for the blower motor about 6" from the other end, and two connectors for the snap-stat and a grounding eyelet at the end. A plastic strain relief is attached to the cable between the 3-prong plug and the connectors for the motor.

The strain relief will be inserted into the large hole in the right front corner of the sheet metal after the cable has been connected to the motor and snap-stat, and after the blower assembly has been attached to the back of the firebox. Do not install the strain relief yet.

Pass the end of the cable with the two connectors and the grounding eyelet through the hole in the sheet metal. Then lead the cable to the back of the firebox through the passageway between the right side of the firebox and the sheet metal shroud. Pull enough cable through the passageway so the two connectors for the blower motor are accessible in the opening where the lower fireback was removed.

### d. Connect the wires to the motor and snap-stat

Place the blower assembly at the rear of the firebox. The motor is at the right end of the blower, and the snap-stat is mounted at the right end of the housing.

Connect the two wires that are about 6" from the end of the cable to the motor.

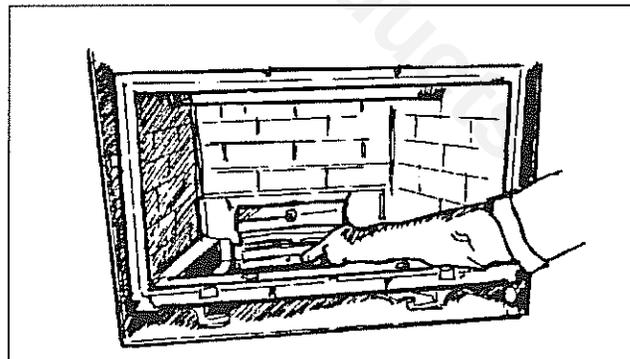
Connect the two wires that are at the end of the cable to the snap-stat.

Connect the grounding eyelet at the end of the green wire to the hole in the blower mounting bracket.

### e. Install the blower

Slide the right end of the blower assembly into the opening made by the removal of the lower back.

Position the assembly so the motor is behind the cast iron back. Push the left end of the assembly against the sheet metal at the rear of the firebox. Attach the assembly to the sheet metal shroud with two #10 - 1/2" Phillips sheet metal screws.



The blower and the mounting bracket are installed as a unit.

### f. Install the strain relief

Gently pull the cable from the outside of the sheet metal so there is no extra slack in the cable. Push the strain relief into the sheet metal.

### g. Install the lower back.

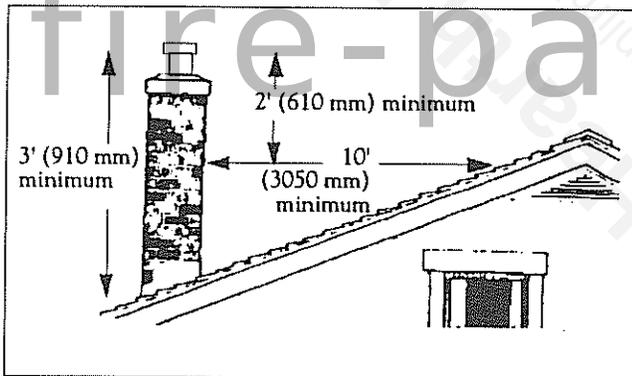
Put the lower back in place in the opening at the bottom of the back. Secure the lower back with a 1/4-20 X 1/2" cap screw and washer.

## Step 5. Install the venting.

This appliance must be properly connected to a listed Class B venting system or to an approved reline kit for masonry or a factory-built chimney system. The venting must be 4" diameter, and can be either flex or rigid. Flex vent may make installation through the fireplace damper easier. When installing a venting system, follow the venting manufacturer's instruction exactly.

The venting should be installed so that the bottom of the draft hood, when attached, is 19-1/4" (489 mm) above the hearth. This will allow enough room to attach the draft hood and install the GoldenWarm as described later in the installation procedure.

The venting must rise at least 3' (910 mm) above the point at which it passes the roof line, and must rise at least 2' (610 mm) above any portion of the roof within 10' (3050 mm).



Do not place any combustible materials within 48 (910 mm) of the front glass.

## Step 6. Attach the draft hood to the venting.

Fasten the draft hood to the venting using three sheet metal screws.

## Step 7. Bring the gas supply line to the fireplace.

Bring the gas supply line to the fireplace at this time so that it will be ready for connection to the GoldenWarm's gas control valve once the unit is installed.

With natural gas, use a 3/8" or 1/2" gas supply line with a capacity of 30,000 Btu/hr. at a nominal supply pressure of 7" W.C. and minimum inlet supply pressure for adjustment of 5.0" W.C.

With propane, use a 3/8" or 1/2" gas supply line with a capacity of 28,000 Btu's/hr. at a minimum inlet supply pressure for adjustment of 11.0" W.C.

There must be a manual shut-off valve installed upstream of the appliance

## Step 8. Slide the firebox part-way into the fireplace and connect the gas line to the valve.

The GoldenWarm's gas valve is connected to the supply line with a section of flexible line that is packed in the firebox during shipment.

The flexible line must be first attached to the burner's gas valve, and then to the supply line.

The point in the installation at which the flexible line is attached to the supply line depends on how much working room there is between the GoldenWarm shroud and the fireplace wall. If sufficient room is available to make the connection after the unit is installed, the connection can be made after the firebox is installed. If insufficient room is available, the connection will have to be made at this time.

If the connection is to be made at this time, refer to Step 12 for details on burner installation as well.

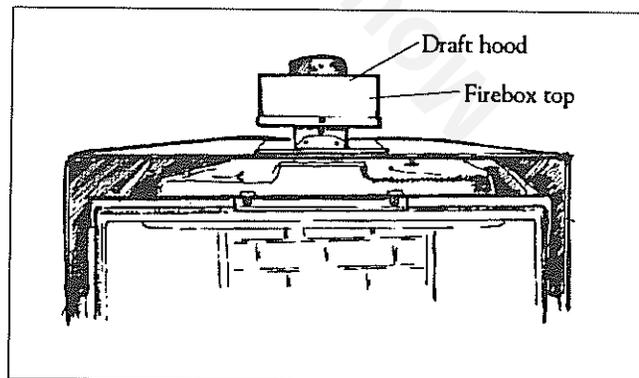
**CAUTION:** The gas line must be connected only by a qualified gas technician.

## Step 9. Slide the firebox the remaining distance into the fireplace.

## Step 10. Attach the draft hood to the firebox shroud.

The screws that secure the draft hood pass up through the top of the firebox, and to install them it is necessary to remove the draft hood cover plate at the top of the firebox.

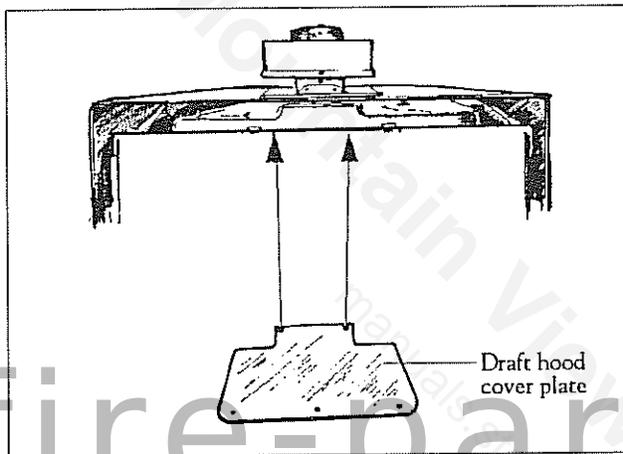
To install the draft hood, pass four 1/4-20 X 3/4" screws up through the top of the firebox and through the base of the draft hood. Tighten the screws.



### Step 11. Install the draft hood cover plate.

Slide the rear of the panel over the washers on the two panel support screws at the back of the firebox. The slots in the panel will fit around the screws. Use three screws and washers passing upward through holes in the front edge of the panel and into the top of the firebox to support the front edge of the panel.

Tighten all five screws.



### Step 12. Level the unit as needed.

The GoldenWarm Gas Insert is equipped with leg levelling bolts so that the unit may be adjusted to accommodate uneven hearths. When fully extended, the levelling bolt is approximate depth of a single brick.

For fireplaces with an ash pit recessed greater than the depth of a brick, additional brick shims should be used under the levellers as needed.

### Step 13. Install the burner.

The Gas Insert burns either natural gas or propane, depending on which burner is purchased. Be sure you have the correct burner.

Installation of the burner and burner tray is the same for both burners. In either case, the tray rests on shelves protruding from the bottoms of the side plates. Tabs screwed to the side plates hold the burner tray in position.

The burner is fragile and must be handled with care.

NOTE: The optional blower must be installed before the burner. If the blower has not yet been installed, return to Step 4.

**a. Attach the flexible connector to the inlet side of the valve unless this was done previously in Step 7.**

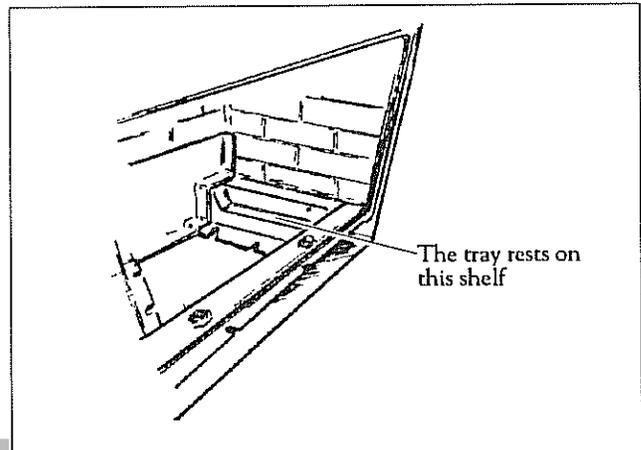
**b. Install the burner tray and the burner**

The burner and burner tray are pre-assembled as a single piece. Extend the valve control and front of the burner/tray assembly through the firebox opening and tilt the front of the unit downward.

Guide the valve control through the opening below the firebox and lower the entire unit onto the shelves on

either side of the firebox. At the same time, guide the flexible gas line to the cut-out in the bottom right corner of the shroud.

The left and right sides of the tray will rest evenly on the shelves. The tray should be pushed to the rear as far as possible. The flange at the back of the burner tray is slanted to match the slant of the stop at the rear of the shelves.



The tray should be pushed to the rear as far as possible.

**c. Install the L-shaped brackets that secure the burner tray.**

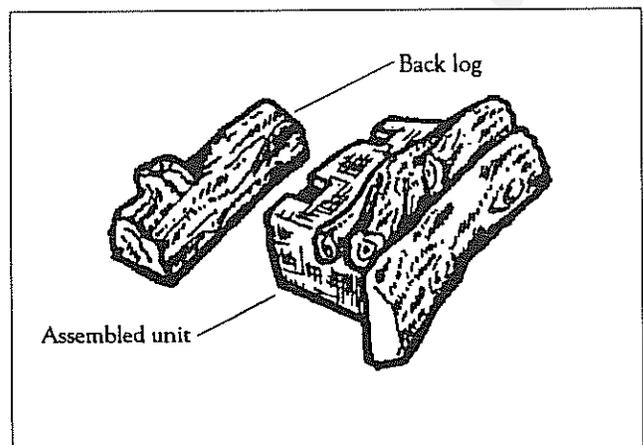
Locate two 1/4 - 20 X 3/8" Phillips head screws and two L-shaped brackets in the parts bag that was packed in the firebox. Secure the tray in place by installing the brackets in the front corners of the left and right sides.

**d. Connect the flexible connector to the gas supply line if this was not done previously in Step 7.**

Refer to Step 7 for details on making the connection.

### Step 14. Install the log assembly.

The log set comes assembled except for placing the back log in position. To install the log set, follow this procedure:

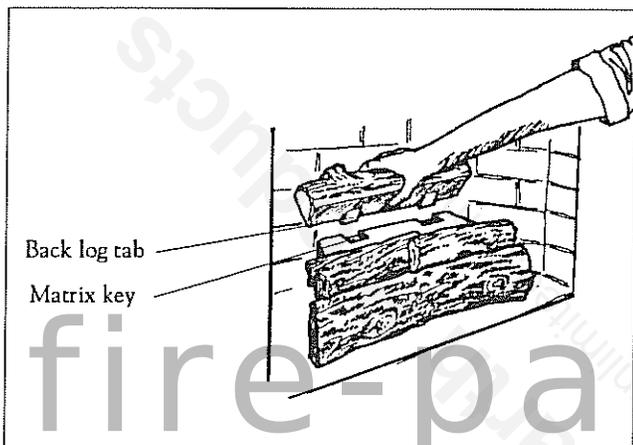


**a. Place the assembly in position**

The matrix, front log and top log are already assembled, and may be placed in position as one unit. Center the assembly on the burner and push it as far as possible to the rear.

**b. Install the back log**

Place the back log on the matrix with the tabs on the bottom of the back log fitting in the keys in the matrix. Push the back log as far to the rear as possible. It will rest against the back.



The back log tabs fit into the matrix keys.

**Step 15. Install the andirons.**

The andirons are optional. To install them, insert one into each of the sockets in the bottom of the firebox frame.

**Step 16. Adjust the burner and pilot.**

Adjustment of the burner and pilot must be done by a qualified gas technician.

Attach a manometer to the inlet side of the valve and to the manual pressure tap of the valve.

The supply pressure should be adjusted to 7" W.C., or a minimum of at least 5" W.C. (natural gas) or 11" (propane) in the manifold.

With the burner operating, the regulator should be adjusted to provide 3.5" W.C. pressure for natural gas or 10" W.C. for propane. At the same time, the pilot flame should be adjusted so that a robust flame results.

Once this procedure is complete, turn off the manual shut-off valve. Remove the manometer, plug the pressure taps, and test the system for leaks with soapy water.

**Step 17. Re-install the glass.**

The glass is held in place by retainers at the top and the bottom of the firebox opening. Tabs extending outward toward the front from the tie bar at the bottom of the opening will support the glass in the correct position.

Carefully place the glass in position on the support tabs.

The bottom retainer is held to the tie bar by two 1/4-20 X 3/8" Philips screws, and washers and nuts. Pass the screws through the tie bar, place washers on the screws and turn hex nuts finger tight onto the screws.

The top retainer is held in place by two 1/4-20 X 3/8" cap screws that screw into the top of the firebox. Thread the screws into the holes on the top of the firebox.

Tighten all the screws firmly, but do not over-tighten them.

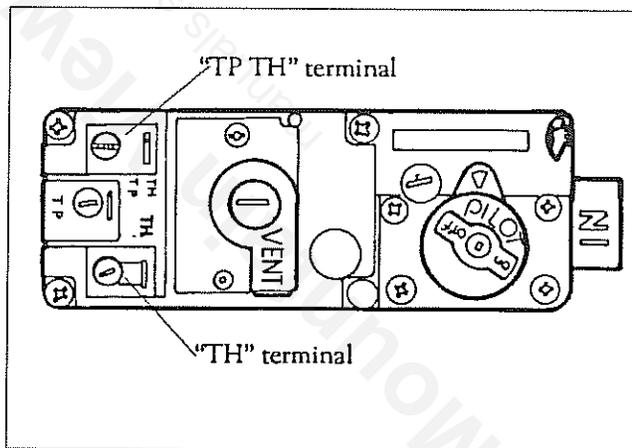
**Step 18A. Connect the wires for the ON/OFF switch. (Except New York State)**

Position the GoldenWarm Gas Insert Front so that it is perpendicular to the firebox and its right side is nearest the right side of the firebox.

The wires from the on/off switch will be connected to terminals on the red box at the front of the control valve.

Connect one wire to the terminal marked "TH."

Connect the other wire to the terminal marked "TP TH". This terminal already has one wire connected to it, and this wire must remain connected. Loosen the terminal screw, and connect the other wire from the on/off switch to the terminal marked "TP TH".



Wrap the plastic wire tie around the wire and force the tie into the small hole in the right front corner of the sheet metal shroud.

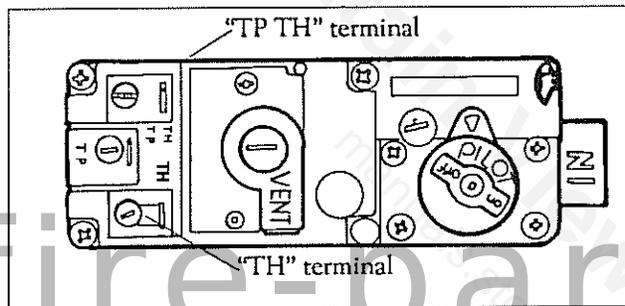
The GoldenWarm, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with National Electrical Code, ANSI/NFPA 70 — latest edition.

## Step 18B. Connect the wires for the ON/OFF switch. (New York State only)

Position the GoldenWarm Gas Insert Front so that it is perpendicular to the firebox and its right side is nearest the right side of the firebox.

Follow this procedure to connect the wiring:

- Disconnect the wire from the "TP TH" terminal and connect it to the "TH" terminal.
- Connect one of the two wires from the ON/OFF switch to the "TH" terminal. Two wires will now be connected to this terminal.
- Connect the other wire from the ON/OFF switch to the "TP TH" terminal.



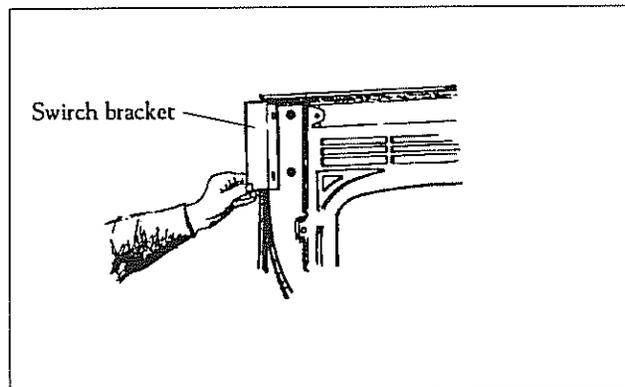
Wrap the plastic wire tie around the wire and force the tie into the hole in the right front corner of the sheet metal shroud.

The GoldenWarm, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with National Electrical Code, ANSI/NFPA 70 — latest edition.

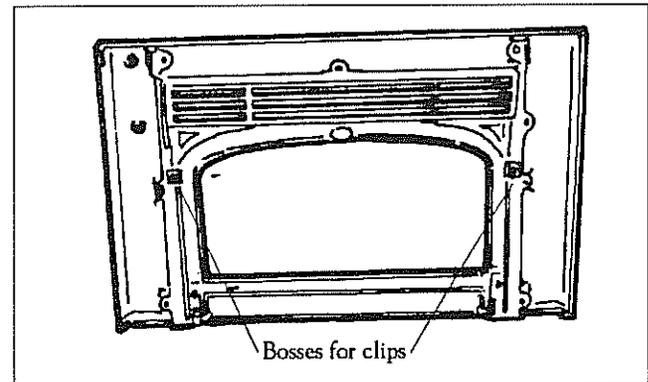
**NOTE: REFER TO PAGE 5 FOR SPECIAL NEW YORK STATE OPERATING INSTRUCTIONS.**

## Step 19. Install the Front.

Before proceeding with this final step, connect the switch bracket to the front with two screws.

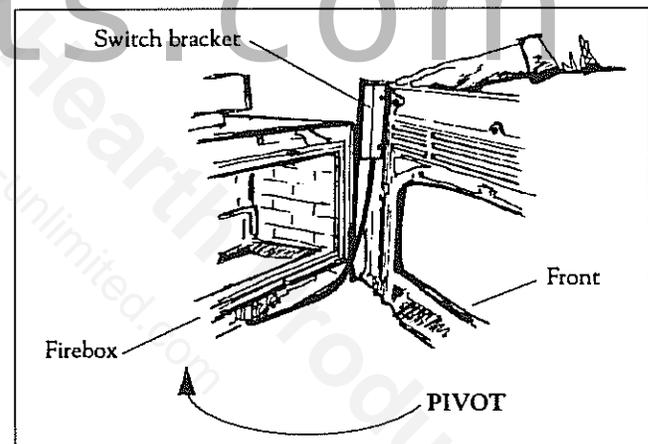


The front is held to the firebox by front retainer clips that are screwed to bosses on the back side of the front. When the front is installed, the clips slide over ears cast into the sides of the firebox.



To attach the clips, position them so that they face down and then secure them to the bosses on the front with Phillips screws.

To complete the installation of the front, pivot the left side backward so that it is close to the left side of the firebox.



Carefully lift and position the front so that the clips extend behind the ears. **CAUTION:** Do not grasp the front with your fingers positioned behind it to avoid chance of injury.

Push the front down so the clips extend as far as possible behind the ears.

To confirm that the clips are properly engaged, pull the front away from the firebox. If the front does not stay in place, go through the procedure once again.

If the engagement is secure, push the front back against the firebox until the two surfaces make contact.

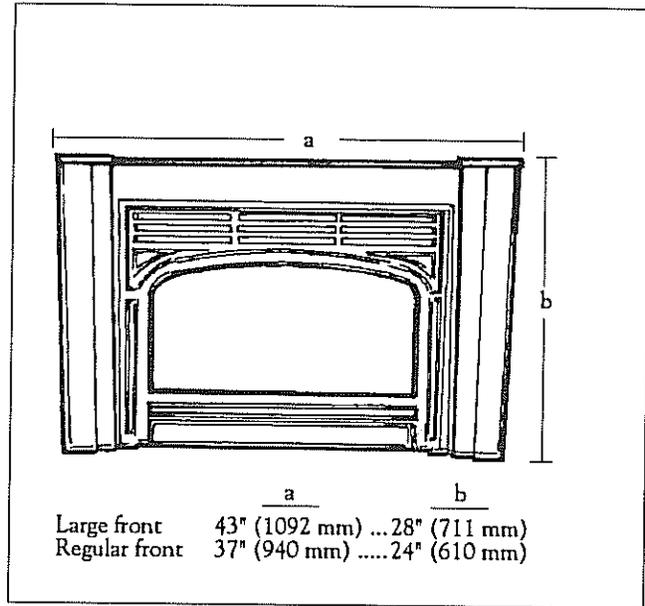
# Specifications

GoldenWarm  
Gas Insert

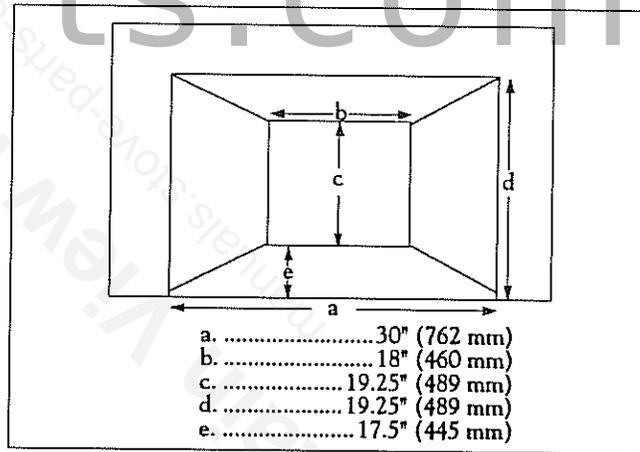
by Vermont Castings

- Fuel .... Natural gas, with burner #NG30
- ..... Propane, with burner #LP28
- Btu/hr, Natural gas .....30,000
- Btu/hr, Propane .....28,000
- Manifold pressure .....Natural gas, 3.5"
- ..... Propane, 10"
- Minimum inlet supply pressure for  
the purpose of input adjustment .....
- .....Natural gas, 5.0"
- ..... Propane, 11"
- Vent length, minimum .....1'
- Vent length, maximum .....3'
- Electrical rating ... 120 v., 60 Hz., 2 amp
- Ignition system: Standing pilot with Piezo ignition
- Weight ..... Firebox, 130 lbs (60 kg.)
- ..... Small front, 60 lbs. (27.3 kg)
- ..... Small front, 90 lbs. (41 kg)

Warnock Hersey Design Certified to ANSI Z21.50b-1990  
for Vented Decorative Appliances, and CAN/CGA 2.22 -  
M86-1991.



Front elevation



Minimum fireplace dimensions for installation

# Parts List

Description	Part #
Right Side	130-1022
Left Side	130-1023
Top	130-1024
Tie Bar	130-1025
Andiron	130-1026
Upper Back	130-1027
Lower Back	130-1028
Top Cover Plate	130-1029
Top Shell	140-8690
Bottom Shell	140-8691
Side Shell	140-8692
Draft Hood	140-8693
Front Heatshield	140-8698
Rear Standoff	140-8699
Glass	160-1342
Glass Retainers	140-8637
5/16" fiberglass gasket for glass (6.5 feet)	120-3588
Log Set	500-2866

## All Burners

Burner Tray	140-8674
Injector Bracket	140-8661
Chunky Ember Strip	140-8682
Thermopile	160-1311
Valve Control Bracket	140-8668
Piezo Igniter	160-1304
1/4" Pilot Tubing	160-1305
5/16" Burner Injector Tubing	160-1306
3/8 NPT X 5/16 Compression Elbow	160-1307

## Natural Gas Burners

Burner, NG 30	160-1312
Bray Injector #82-900	160-1313
Natural Gas Pilot Orifice	160-1301
Valve-Natural Gas	160-1303

## LP Gas Burners

Burner, LP 28	160-1353
Bray Injector #82-320	160-1340
LP Pilot Assembly	500-2858
LP Gas Valve Assembly	500-2859

For replacement parts, or for information about parts or service, contact your local Vermont Castings' Authorized Dealer. For the name of the Vermont Castings' dealer nearest you, contact :

Vermont Castings, Inc.  
Route 107 • P.O. Box 501  
Bethel, Vermont 05032

# Vermont Castings Warranty

## Limited Three Year Warranty

Vermont Castings' warrants that this GoldenWarm 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 pay for any Authorized Dealer in-home travel fees or service charges. 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 GoldenWarm or part thereof that is repaired or replaced during the limited warranty period will be warranted under the terms of the limited warranty 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 GoldenWarm 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 door 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 if required.
2. Vermont Castings offers no warranty on chipping of enamel surfaces. Inspect your GoldenWarm prior to accepting it for any damage to the enamel.
3. This warranty does not cover misuse of the GoldenWarm as described in the Owners' Guide, nor does it cover a GoldenWarm 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 GoldenWarm. (Do not operate the GoldenWarm 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.

## 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 will then start in process. Vermont Castings reserves the right to withhold final approval of a warranty claim pending a visual inspection of the defect by authorized representatives.

fire-parts.com

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

**Vermont Castings, Inc.**  
Route 107 • P.O. Box 501  
Bethel, Vermont 05032

**VCW International Ltd.**  
1, Smythe Road  
Bristol BS3 2BX  
England

#200-2823

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