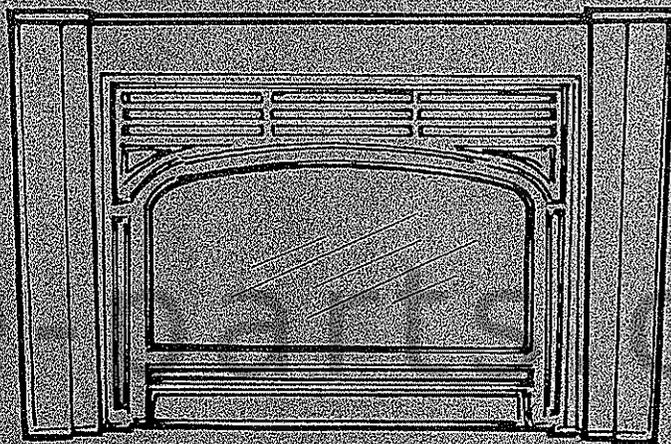


Golden Warm™

Gas Insert

Model 2294



Owner's Guide

For use in the United States and Canada

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life. 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

- Extinguish any open flame. 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.

The Golden Warm 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 Golden Warm 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-B1-149.1 and 2 Installation Code. (EXCEPTION: Do not derate this appliance for altitude. Maintain the manifold pressure at 3.5 inches W.C. for Natural Gas and 10 inches W.C. for LP gas.)

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.

This appliance 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.

The Golden Warm Gas Insert and its individual shut-off 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 Golden Warm Gas Insert must be isolated from the gas supply piping system by closing its individual manual shut-off 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 Golden Warm 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), or of the current Canadian Electrical Code C 22.1.



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.

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.

WARNING: Do not operate the this appliance 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 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.



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.

We are equally committed to your satisfaction as our customer. That is why we maintain an exclusive network of the finest dealers in the industry, chosen for their expertise and dedication to customer service. They are factory-trained to know in detail every Vermont Castings product. Feel free to contact your Vermont Castings Authorized Dealer any time you have a particular question about your fireplace or its performance.

Be assured that your cast iron GoldenWarm Gas Insert has been built 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 to help you maintain your Gas Insert in excellent condition. We urge you to read the manual before installing and operating your GoldenWarm Gas Insert and to keep this manual as a reference.

Sincerely,

All of us at Vermont Castings

fireparts.com

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Installation

The GoldenWarm Gas Insert is listed for installation in built-to-code masonry or factory-manufactured "zero-clearance" fireplaces, (tested and listed to UL 127 and ULC-S610).

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. and CAN 1-B1-149.1 and .2.

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 you to a qualified service person.

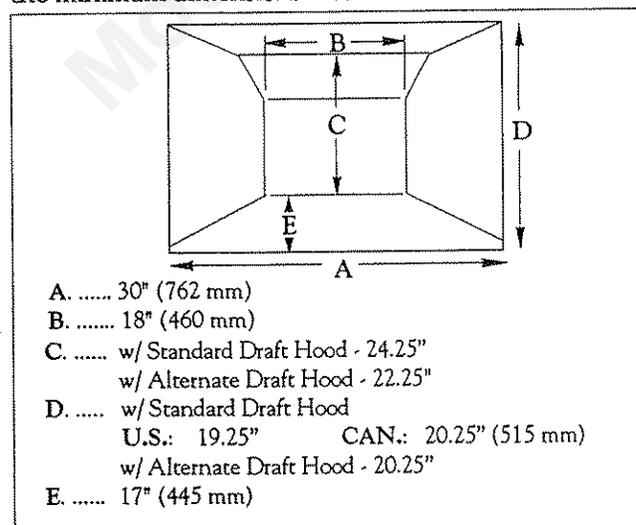
WARNING: DUE TO HIGH TEMPERATURES, THE GOLDENWARM GAS INSERT SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.

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

Step 1. Confirm the fireplace size and clearance requirements.

Refer to Mantel and Hearth Clearance specifications on Page 17.

The GoldenWarm Gas Insert will fit fireplaces having the minimum dimensions illustrated below.



Do not place any combustible materials within 48" (1219 mm) of the front glass.

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. Thoroughly clean the remaining ash, dust and debris from the fireplace, particularly from the rear area, to ensure that the living area remains clean while the Insert is operating.

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.

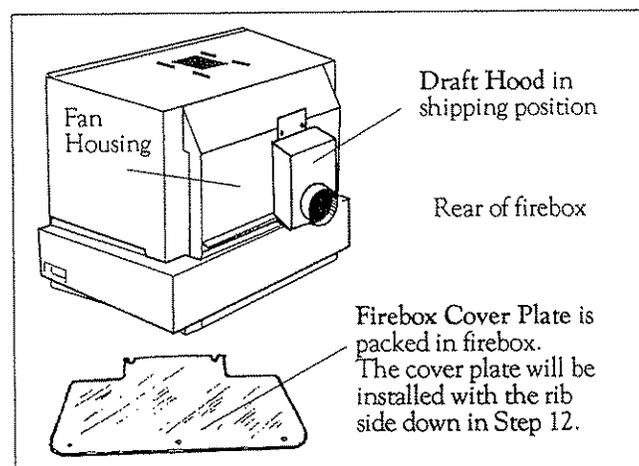
For factory-manufactured "zero-clearance" fireplaces, the listing for the GoldenWarm Gas Insert includes permission to remove the damper, ash lip and smoke shelf. Removal of these components may make installation of the Insert easier. Be sure and save any components which you remove. Put them back in place if the insert is removed and the fireplace will be used as originally manufactured.

Provision should be made for an outside air supply if required by local codes.

Step 3. Unpack the GoldenWarm Insert.

The Gas Insert is shipped in three separate boxes that contain the firebox, the front, and the burner—either a natural gas burner or a propane burner.

The *draft hood* is temporarily attached to the rear of the fan housing for shipment. Detach the draft hood from the fan housing by removing the two screws and place it aside for later installation in Step 7. Replace the two screws into the housing.



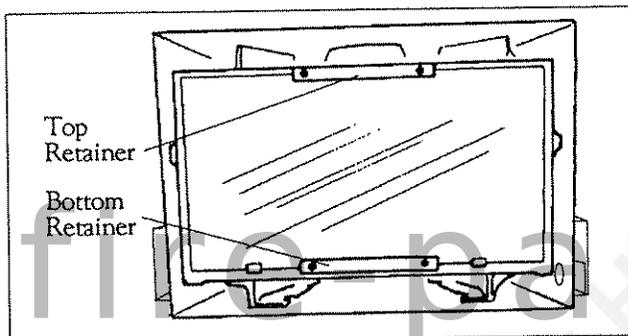
Step 4. Remove the glass.

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

Step 1. Loosen, but do not remove the two $\frac{1}{4}$ -20 X $\frac{3}{8}$ " Phillips screws that secure the *bottom retainer*.

Step 2. Remove the two $\frac{1}{4}$ -20 X 1" Phillips screws and nuts that secure the *top retainer* being careful to support the glass when the second screw is removed. Save the hardware.

Step 3. Grasp the glass pane and carefully lift it off the support tabs.



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

Step 5. Route the blower power cord.

Run the blower power cord forward from the strain reliever on the side of the shroud to the nearest grounded outlet.

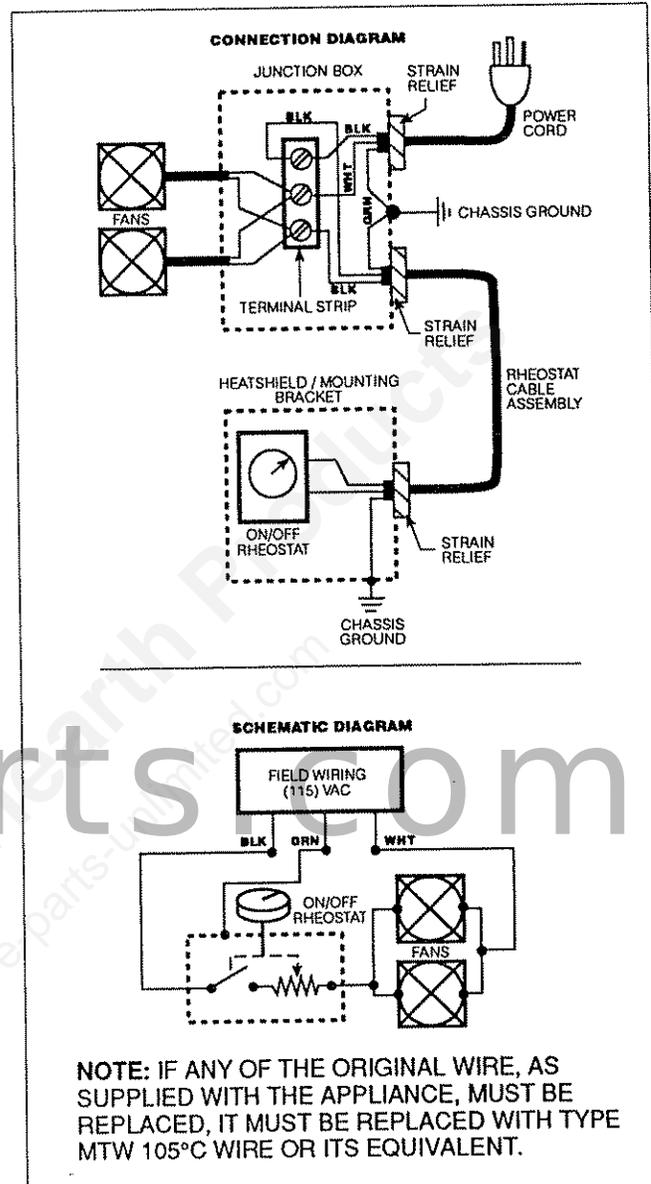
WARNING: This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

Step 6. Install the venting.

This appliance must be properly connected to an approved reline kit for masonry or a factory-built chimney system.

Provision for an airtight seal must be made either at the damper or at the top of the chimney.

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 instructions exactly.



Wiring Diagrams/Blower Assembly

• The venting should be installed so that the bottom of the draft hood, when attached, is 19- $\frac{1}{4}$ " (485 mm) above the hearth. This will allow sufficient clearance to attach the draft hood and install the Insert as described later.

The particular characteristics of some installations may prevent use of the standard draft hood. In these cases, use the optional Alternate Draft Hood, #5041. See Page 16 for specifications.

Step 7. Attach the draft hood to the venting.

Fasten the draft hood to the venting using three sheet metal screws included in the hardware bag.

Step 8. 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 gas control valve once the unit is installed.

With Burner 5082, (propane), use a $\frac{3}{8}$ " or $\frac{1}{2}$ " 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" W.C.

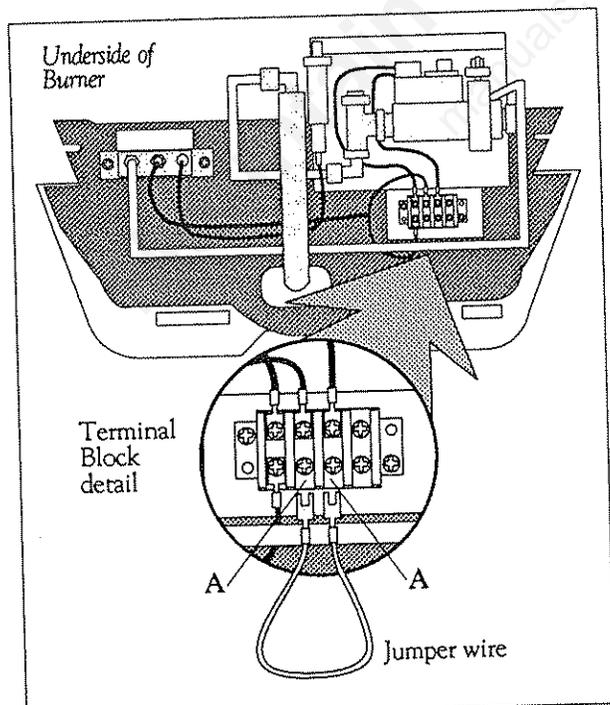
With Burner 5083, (natural gas), use a $\frac{3}{8}$ " or $\frac{1}{2}$ " gas supply line with a capacity of 30,000 Btu/hr. at a minimum inlet supply pressure for adjustment of 11" W.C.

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

Step 9. Install the Burner assembly.

The Gas Insert burns either natural gas or propane, depending on which burner is purchased. Check the box label to be sure you have the correct burner: #5082 for LP or #5083 for natural gas. Installation of either burner assembly is as follows:

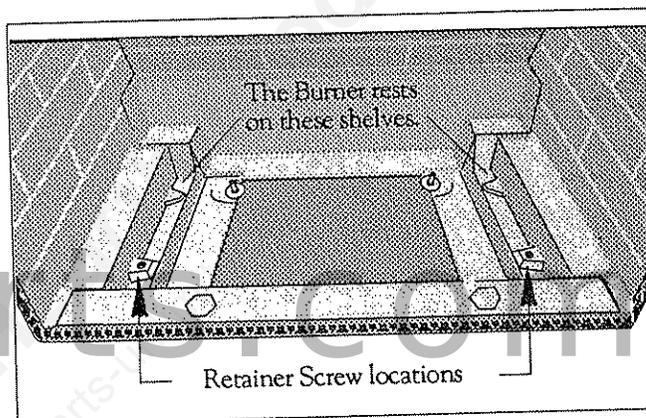
1. **Install the Jumper wire.** Unpack the Burner and lay it upside down on a flat surface. The double-ended Jumper wire is shipped in the hardware bag in the firebox. **IMPORTANT NOTE: The Burner will not function unless the Jumper wire is properly installed across the terminal block on the underside of the Burner as shown below.** Use a small phillips



Install the Jumper wire on the burner terminal block.

screwdriver to attach the ends of the Jumper wire to the terminals, (A), on the terminal block.

2. Attach the flexible connector to the inlet side of the gas control valve unless this was done previously in Step 8.
3. Tilt the burner, forward edge down, and place it inside the firebox, guiding the control valve through the front opening. At the same time, guide the flexible gas line to the large cut-out in the bottom right corner of the shroud. The burner will rest evenly on the side shelves.
4. Secure the Burner to the shelves using the two 1/4-20 x 1" round head phillips retainer screws provided in the hardware bag.



5. Connect the flexible connector to the gas supply line if this was not done previously in Step 8.

Step 10. Slide the firebox partially into the fireplace and connect the gas line to the valve.

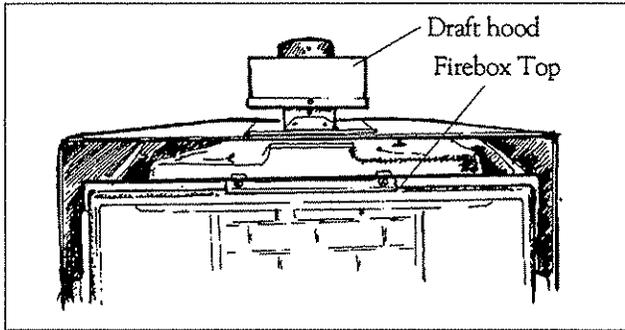
The gas valve is connected to the supply line with a flexible connector that is packed in the firebox for shipment.

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 Insert shroud and the fireplace wall. If sufficient room is available to make the connection after the unit is installed, the connection can be made at that time. If insufficient room is available, the connection will have to be made at this time.

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

Step 11. Attach the draft hood to the firebox shroud.

The screws that secure the draft hood pass up through the top of the firebox. To install the draft hood, pass four 1/4-20x3/4" screws with washers up through the top of the firebox and through the hex nuts welded to the base of the draft hood. Tighten the screws.



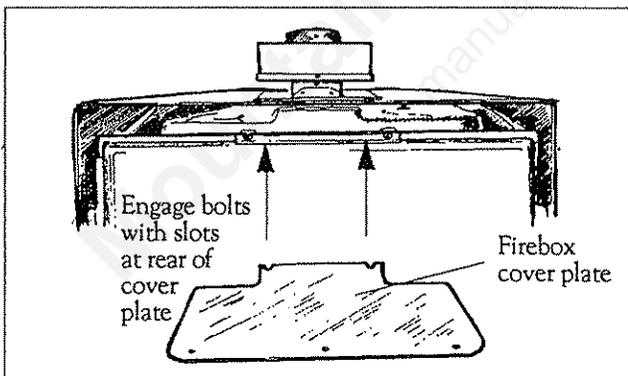
Attach the Draft Hood

If you are using Alternate Draft Hood #5041, follow the installation instructions provided with the kit.

Step 12. Install the firebox cover plate.

Partially screw two 1/4-20x 3/4" hex head bolts and washers into the holes inside the rear of the firebox top. Lift the firebox cover plate, rib side down, and engage the slots with the bolts. Use the three remaining bolts and washers to secure the front of the cover plate to the top of the firebox.

Tighten all five screws.



Step 13. Level the unit as needed.

Use the leg levelling bolts to adjust the unit to accommodate uneven hearths. When fully extended, the levelling bolt is approximately the depth of a single brick.

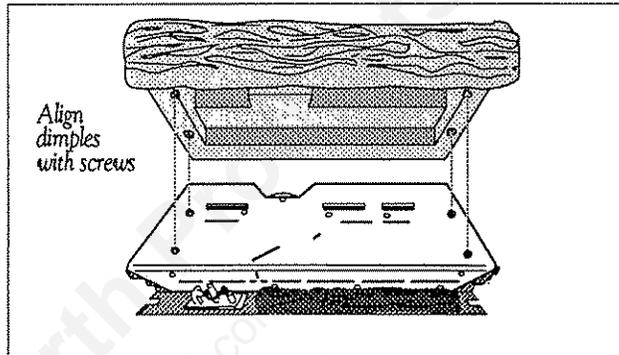
For fireplaces with an ash pit recessed greater than the depth of a brick, additional brick shims should be used under the levellers as needed.

Step 14. Install the Log Set.

The log set is composed of Base Assembly and a Back Log. Follow this procedure:

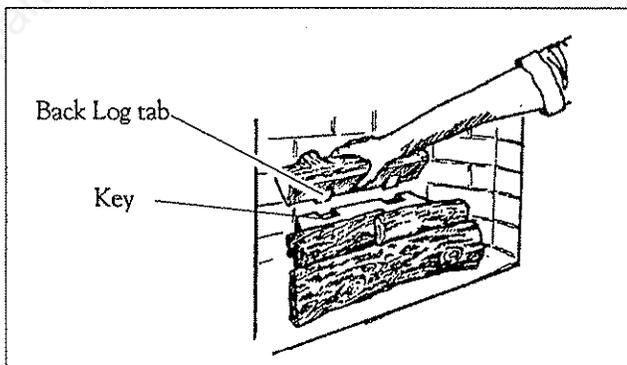
1. Place the Base Assembly in position.

Center the assembly on the burner and slide it as far as possible to the rear. Take care that the dimples on the underside of the Base Assembly align with the screw heads on the burner plate.



2. Install the Back Log.

The tabs on the bottom of the Back Log fit into the keys on the top of the Base Assembly. Slide the Back Log as far to the rear as possible.



The back log tabs fit into the keys on top of the base assembly.

Step 15. Slide the firebox into position.

Step 16. Install the andirons. (Optional)

Insert an andiron into each of the sockets in the bottom of the firebox frame.

Step 17. Adjust the burner and pilot.

The manifold pressure and pilot flame are set at the factory. If any adjustment is necessary, it must be done by a qualified service technician.

Step 18. Re-install the glass.

The glass is held in place by retainers at the top and the bottom of the firebox opening. Cast iron tabs at the bottom of the opening support the glass in the correct position.

Carefully place the glass in position behind the bottom retainer, resting on the cast iron support tabs.

The top retainer is held in place by two ¼-20 X 1" Phillips screws and nuts. Pass the screws through the retainer and install the nuts. Slide the assembly into the slots in the top of the firebox, and tighten the screws finger tight.

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

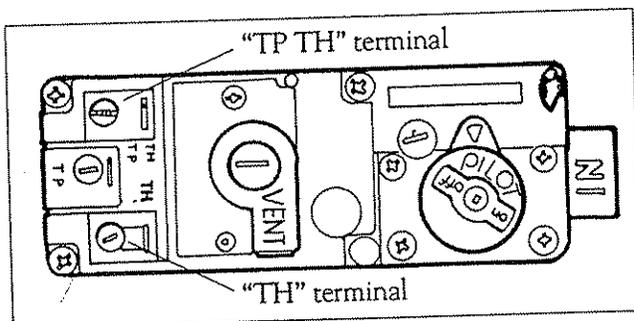
Step 19A. Connect the wires for the ON/OFF Rocker Switch. (Not pertinent to installations in New York State or new construction in California)

The ON/OFF switch and blower control bracket has been temporarily taped to the side of the Insert for shipment. Remove the tape and set the switch bracket aside.

The wires from the on/off switch connect to terminals on the red box at the front of the control valve as follows:

- 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".

NOTE: The 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, or the current Canadian Electrical Code C 22.1.



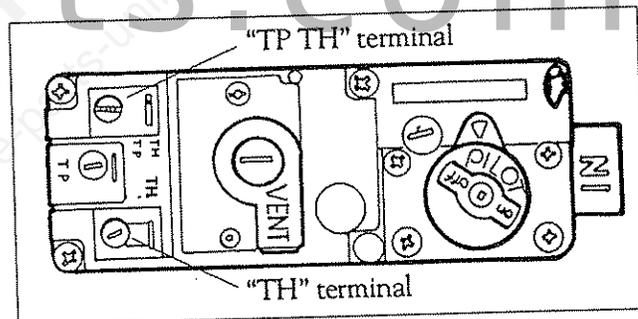
Step 19B. Connect the wires for the ON/OFF Rocker Switch. (For installations in New York State and in new construction in California*)

The ON/OFF switch and blower control bracket has been temporarily taped to the side of the Insert for shipment. Remove the tape and set the switch bracket aside.

The wires from the on/off switch connect to terminals on the red box at the front of the control valve as follows:

- 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 the terminal.
- Connect the other wire from the ON/OFF switch to the "TP TH" terminal.

NOTE: The 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.

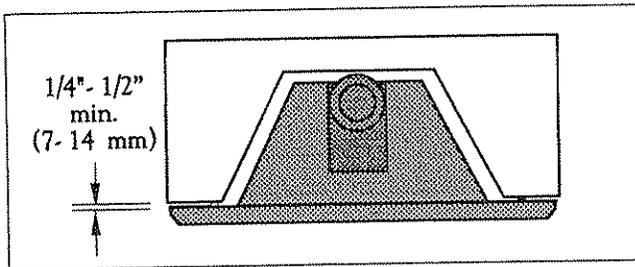


NOTE: Refer to Page 9 for special Operation Instructions pertaining to installations in New York State and in new construction in California.

*** California Residents Note:** This procedure is required for units installed in new construction. It is not required for those units installed in existing buildings.

Step 20. Install the Front.

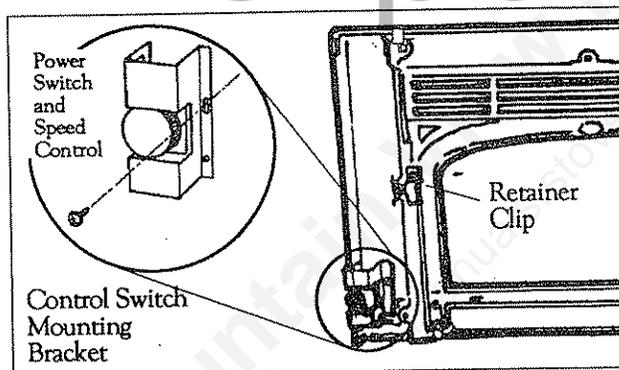
All installations using the Small Front require that the Gas Insert be positioned to maintain a $1/4$ " air space between the Front plate and the fireplace face.



All installations using Alternate Draft Hood #5041 require that the Insert be positioned to maintain $1/2$ " air space between the Front Plate and the fireplace face.

Install the Control Switch.

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

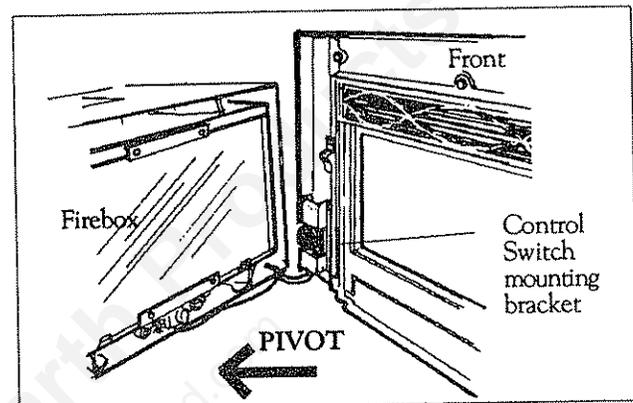


2. Install the Control Switch mounting bracket to the inside lower right front with one $1/4$ -20 x $3/8$ " Phillips pan head screw.

Attach the Front Assembly.

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

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 retainer 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, gently 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.

Operation

NEW YORK AND CALIFORNIA RESIDENTS NOTE: Gas appliances must be installed and operated in conformance with specific requirements and procedures in New York and California. The operating procedures for New York State and California residents are explained on Page 9. The specific installation requirements for New York State and California are explained in Step 19B on Page 6 in the Installation Section.

Lighting the Fire

To gain access to the *gas control valve*, open the *access door* below the firebox opening. Also, be sure that the *rocker switch* is in the "OFF" position. Fig. 1.

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." Fig. 2.

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

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 "Re-lighting the Fire" on Page 9.

Step 4. Turn the gas control knob counter-clockwise to "PILOT." Fig. 3.

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 counter-clockwise to "ON." Fig. 4.

Step 7. Turn the rocker switch on and watch the fire until the entire unit is lit.

CAUTION

If the entire burner is not lit within 5 seconds of turning on the rocker switch, immediately turn the rocker switch "OFF". Allow 5 minutes for the gas to clear from the firebox. Repeat from Step 2.

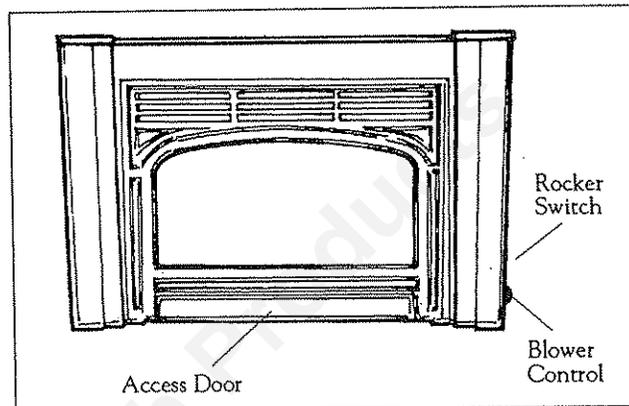


Fig. 1. Control Locations

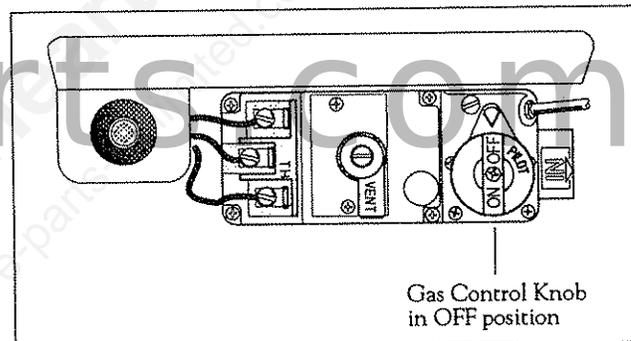


Fig. 2. Gas Control Valve / "OFF"

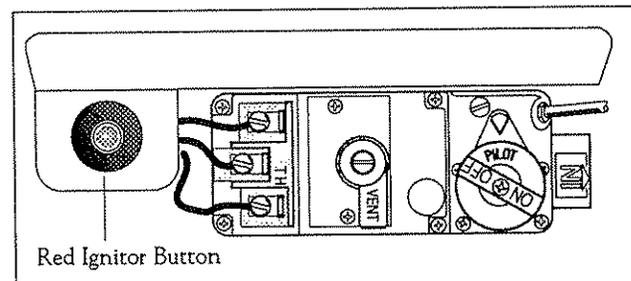


Fig. 3 Gas Control Valve / "PILOT"

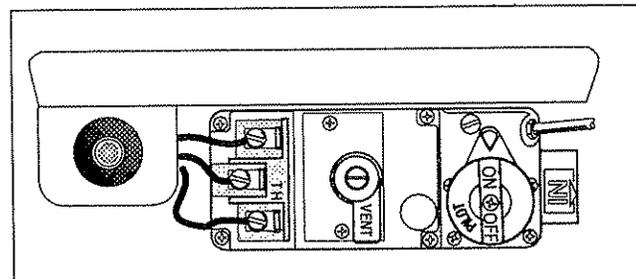


Fig. 4 Gas Control Valve / "ON"

WARNING

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

Turning Off the Fire

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

You may hear a popping noise from within the firebox a few seconds after shutting the GoldenWarm off. This is normal and does not indicate a problem.

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.*

Lighting the Fire - New York State and California*

In conformance with state energy codes, decorative gas appliances installed in New York State and new construction in California may not have a standing pilot. These GoldenWarm models 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 rocker 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.
- Step 4.** Place the rocker switch in the "ON" position.
- Step 5.** Turn the knob on the gas control valve 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 7.** Turn the gas control knob counter-clockwise to "ON." The entire burner will now ignite.

Re-lighting the Fire

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

Step 2. Push the rocker switch "ON" and watch to be sure that the entire burner ignites. If the burner does not ignite within 5 seconds, push the rocker switch "OFF" and go to Step 2, Page 8.

CAUTION

If the entire burner is not lit within 5 seconds, immediately turn the rocker switch "OFF". Allow 5 minutes for the gas to clear from the firebox. Repeat from Step 2.

Turning Off the Fire

Step 1. Simply turn off the rocker switch.

NOTE: *If the unit will not be used for a few days, turn the gas control to "OFF". If the Gas 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.*

***California Installations:**

Follow this procedure if your GoldenWarm is installed in **new construction**. If your unit is installed in **existing construction**, you should follow the preceding instructions on Page 8.

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

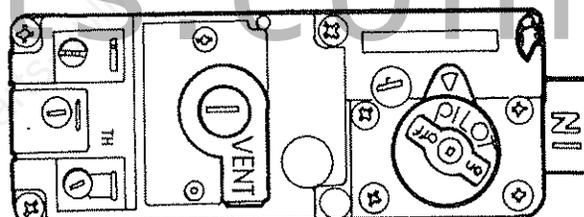
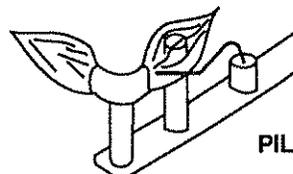
- Extinguish any open flame. Do not try to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.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

**GAS CONTROL VALVE****PILOT LIGHT****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".

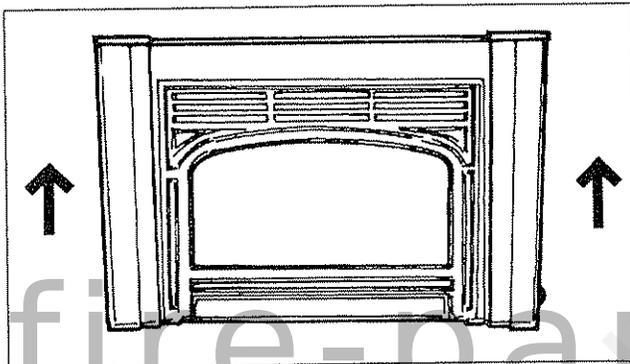
NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

Maintenance

Removing the Front

The front of the Gas Insert must be removed to gain access to the firebox for cleaning, inspection or repair. The front is held to the firebox by two Z-shaped clips that slide over ears cast into the sides of the firebox.

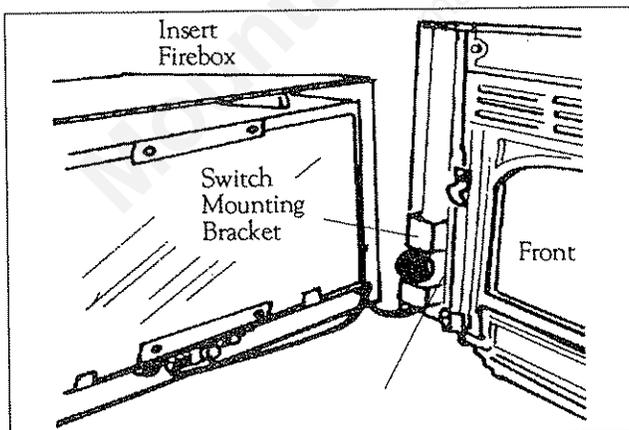
Step 1. Carefully lift the front so that the clips disengage from the firebox. Move it a few inches away from the firebox.



Grasp the Front and lift it up off of the Firebox.

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.

Step 3. Detach the Control Switch mounting bracket from the lower right corner of the front by removing the ¼-20x¾" Phillips pan head screw.



Pivot the left side of the front outward to gain access to the Control Switches mounting bracket.

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. Reconnect the Control Switch bracket that was detached previously.

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 cast iron ears on the firebox.

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

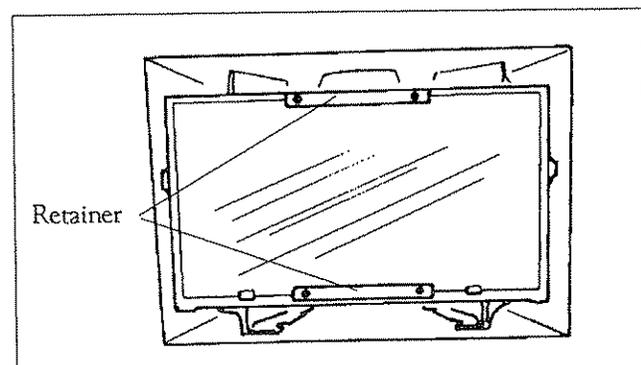
Step 4. To confirm that the clips are properly engaged, pull the front away from the firebox. If the front does not stay in place, repeat the procedure once again.

Removing the Glass

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.

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

Do not operate the Gas Insert if the glass is removed, cracked, broken or damaged in any way. In the event that the glass panel is cracked or damaged, REPLACEMENT SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON. Use only glass panel part no. 160-1342.



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

Use gloves to handle broken glass. Thoroughly inspect the firebox and burner areas and dispose of all broken glass or debris.

Step 1. Loosen, but do not remove the two $\frac{1}{4}$ -20 X $\frac{3}{8}$ " Phillips screws that secure the bottom retainer.

Step 2. Remove the two $\frac{1}{4}$ -20 X 1" Phillips 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.

Step 3. Grasp the glass pane and carefully lift it off the support tabs.

Installing the Glass

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

Step 2. Replace the top retainer with the two $\frac{1}{4}$ -20 X 1" Phillips screws and nuts that were removed previously. Be sure that the retainer overlaps the edge of the glass. Secure it finger-tight, sufficient to keep the glass from falling out.

Step 3. Secure the bottom retainer by finger-tightening with the two $\frac{1}{4}$ -20 X $\frac{3}{8}$ " Phillips screws that were loosened previously. Tighten the screws on the top and bottom retainers evenly and firmly, but do not over tighten them.

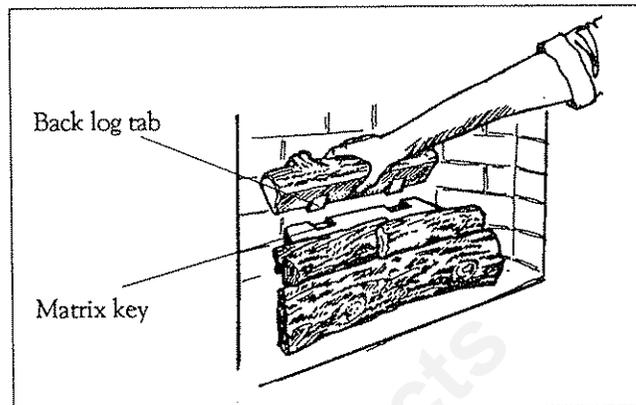
Clean the Log Assembly and Burner Annually

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.

The logs and the matrix are extremely fragile and must be handled carefully and brushed gently. While handling, take care to support them evenly. Use only a soft-bristled brush to clean them, such as a paint brush. Do not use a vacuum cleaner.

Step 1. Remove the Insert front and glass as described previously.

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.

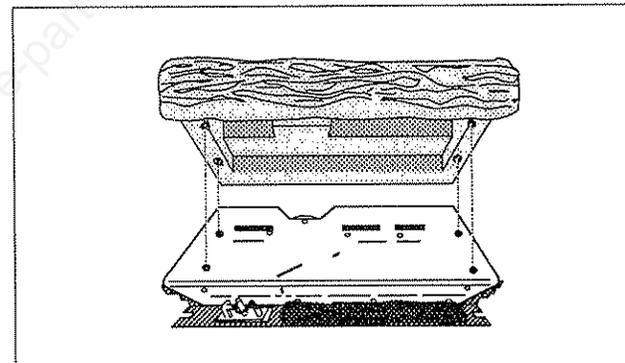


Lift the back log carefully from the matrix.

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 the burner holes with debris.

Step 5. Replace the log assembly. Center it on the burner and slide it to the rear as far as possible. Take care to align the dimples on the underside of the matrix with the bolt heads on the burner plate.



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

Step 7. Replace the glass and the front.

Replace the Glass Gasket as Needed

Your Gas Insert uses 5/16" rope-type fiberglass gasket to make a tight seal between the glass panel and the firebox. In time, the gasket can become brittle and compressed and should be replaced. New gasket material is available from your Vermont Castings Authorized Dealer.

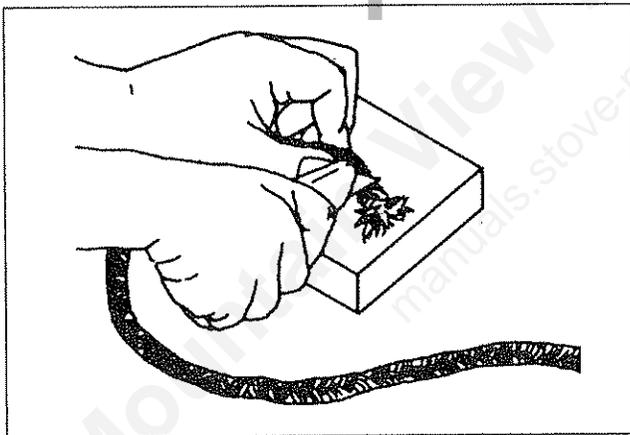
- Allow the Gas Insert to cool completely.
- Wear safety goggles and a dust mask.

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 hammer and screwdriver 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. Cut the gasket at the marked spot with a utility knife. Twist the ends slightly to prevent 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 ends meet before trimming any excess. Do not overlap the gasket ends or leave ends with ragged edges.

Step 7. Firmly and evenly press the gasket to seat it in its channel.

Step 8. Clean any excess cement from around the channel. Allow the cement to dry thoroughly for 24 hours.

Cleaning the 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. Remove or cover over any controls or trim.

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 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.

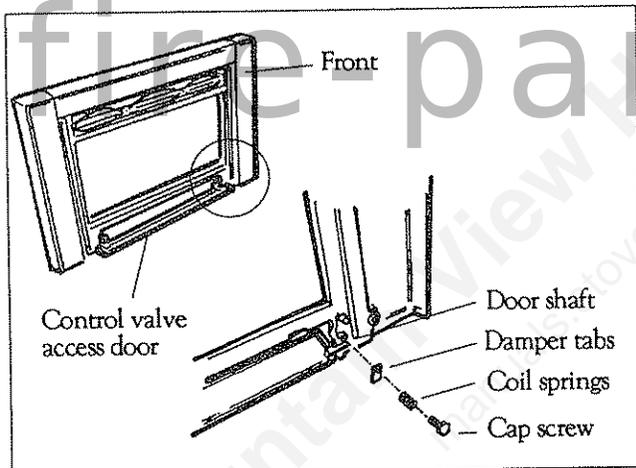
Adjusting the Control Valve Access Door

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 metal tabs. Coil springs under the heads of the cap screws hold the tabs in place and put pressure on the tabs.

NOTE: The tabs at opposite ends of the shaft are different in shape, but the adjustment procedures are the same for both 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 $\frac{1}{16}$ " wrench and tighten the screws on either end of the shaft $\frac{1}{4}$ turn. To make the door open and close more easily, loosen the screws.



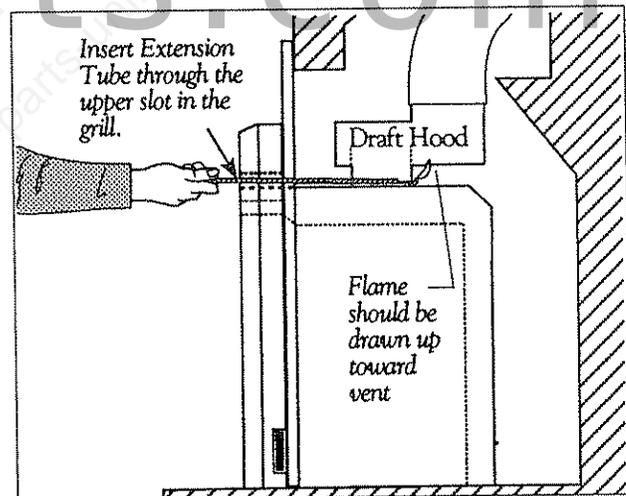
Access Door Hinge Adjustment

Inspection of Venting System

The vent system must be inspected annually by a qualified technician to confirm that it is unobstructed and in good condition. You can quickly check the integrity of the vent connection at any time by holding a match flame near the draft hood on top of the firebox. The flame will be drawn toward or into the draft hood if the vent connection is properly secured and no obstruction exists. Use the extension tube, which is stored in the control valve compartment under the firebox, to hold the match.

Inspection Procedure

- Insert a lit, wooden match into the end of the extension tube and insert the tube through the uppermost opening of the front grille. Extend the match until it is near the draft hood. Sighting through the grille, confirm that the flame is pulled toward the draft hood.
- If the flame is not obviously pulled up into the draft hood, pull the front off of the fireplace and determine the source of the flue blockage.
- Keep the extension tube in the control compartment under the firebox for future use.



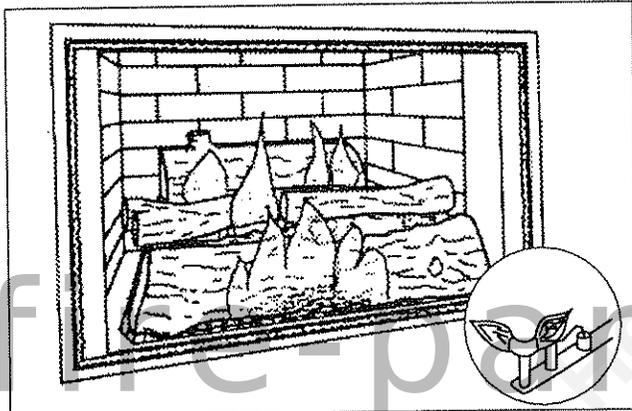
Use the Extension Tube and lit match to check the vent for obstruction.

Check the Gas Flame Regularly

To ensure that your 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 Gas Insert. Contact your Vermont Castings Authorized Dealer or a qualified gas technician for assistance.



When the Gas Insert is operating properly, the flame pattern will resemble that shown above.

Specifications

GoldenWarm Gas Insert Model 2294

Fuel

Natural gas, with burner NG30

Propane, with burner LP30

Btu/hr, Natural gas 30,000

Btu/hr, Propane 30,000

Manifold pressure: Natural Gas, 3.5"

..... Propane, 10.0"

Minimum inlet supply pressure for the purpose of input adjustment:

..... Natural Gas, 5.0"

..... Propane, 11.0"

Maximum inlet supply pressure

..... Natural Gas, 11.0"

..... Propane, 13.0"

Electrical rating 115 v., 60 Hz., 2 amp

Ignition system: Standing pilot* with Piezo ignition

*where allowed by code

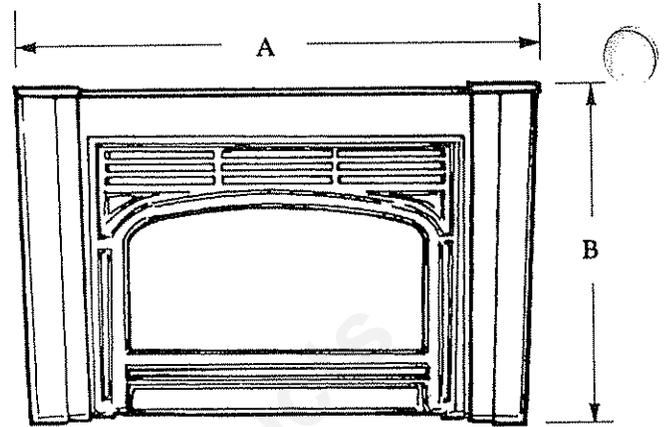
Weight:

Firebox, 130 lbs. (60 kg)

Small front, 60 lbs. (27.3 kg)

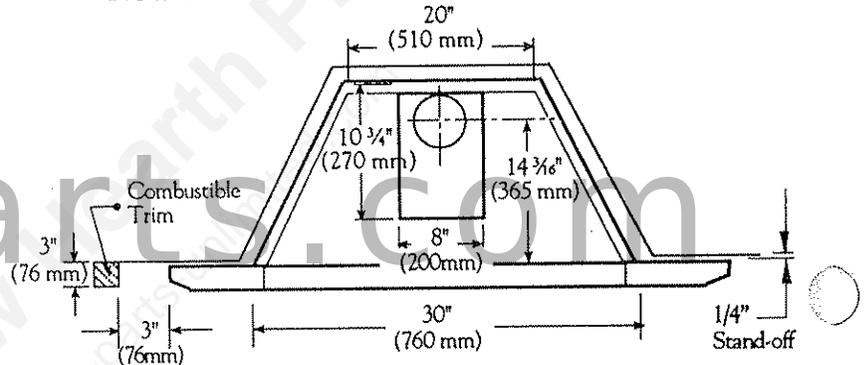
Large front, 90 lbs. (41 kg)

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



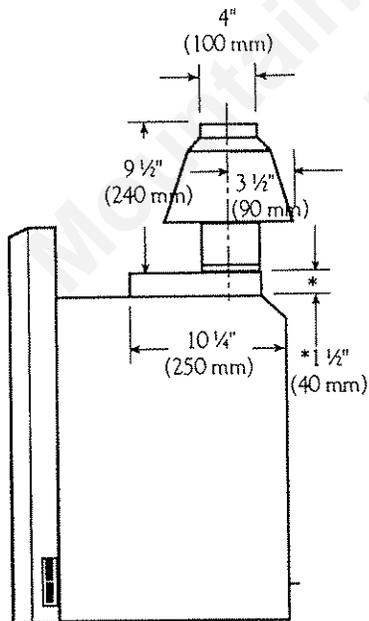
	A	B
Large Front	43" (1090 mm)	28" (710 mm)
Small Front	37" (940 mm)	24" (610 mm)

Front Elevation

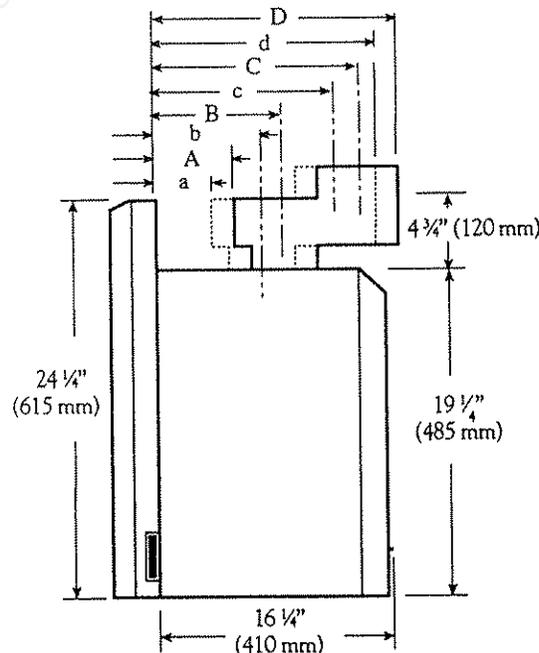


Firebox with Standard Draft Hood

Max. Adjustment Range: 2" (50mm)



Optional Alternate Draft Hood #5041



Standard Draft Hood

Min. Adj.:

a - 4 1/4" (105mm)

b - 6 3/4" (170mm)

c - 12" (300mm)

d - 15" (380mm)

Max. Adj.:

A - 6 1/4" (155 mm)

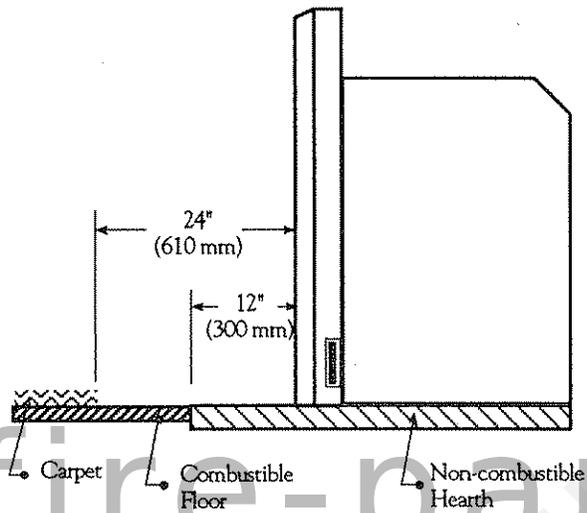
B - 8 3/4" (220 mm)

C - 14" (360 mm)

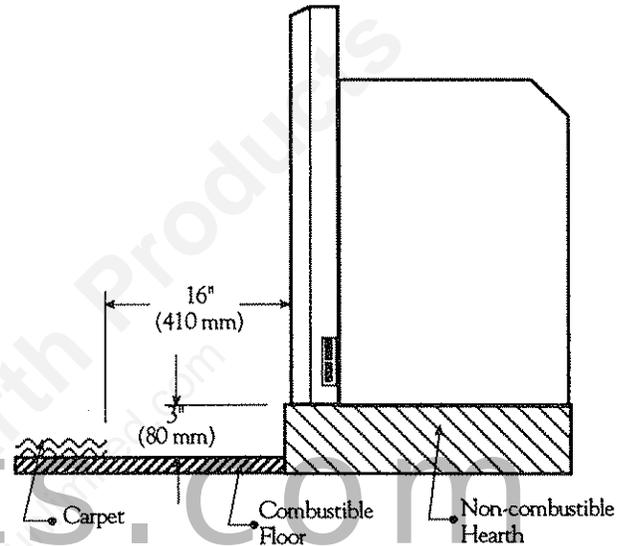
D - 17" (410 mm)

Drawings not to scale.

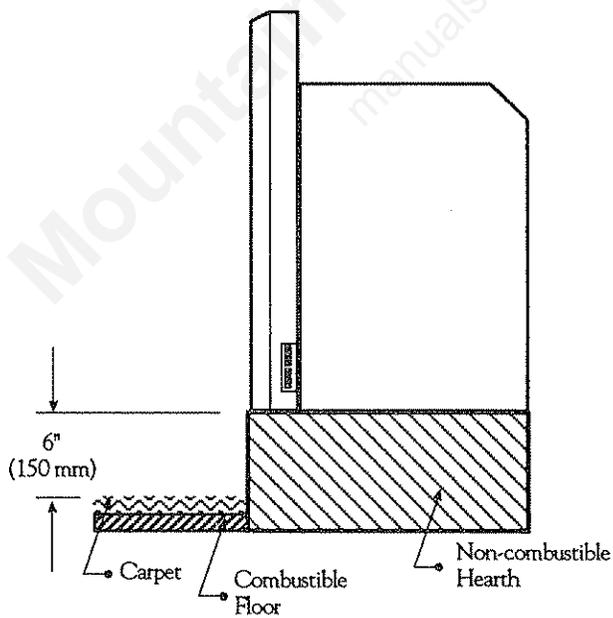
Clearances



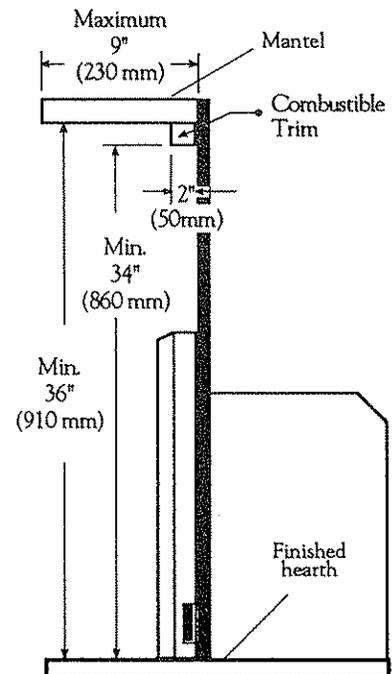
Floor Level Installation



3" Raised Hearth Installation



6" Raised Hearth Installation



Mantel Clearances

Parts List

Description	Part #
Right Side	130-1022
Left Side	130-1023
Top	130-1052
Tie Bar	130-1025
Andiron	130-1026
Lower Back	130-1028
Upper Back	130-1051
Top Cover Plate	130-1053
Bottom Shell	140-8751
Back Shell	140-8752
Top Shell	140-8753
Front Heatshield	140-8757
Draft Hood	140-8758
Glass	160-1342
Glass Retainers	140-8637
5/16" fiberglass gasket for glass (6.5 feet)	120-3588
Log Set	500-2933
On/Off Switch Cable	500-2857
Blower	160-1578
Noise Absorber	160-1479
Noise Absorber Clamp	160-1480

Burners

NG30	000-5082
LP30	000-5083

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

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

Warranty

Limited Three Year Warranty

Vermont Castings, Inc. warrants that this GoldenWarm Gas Insert 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 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 GoldenWarm Gas Insert 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 GoldenWarm Gas Insert 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 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 GoldenWarm Gas Insert prior to accepting it for any damage to the enamel.
3. This warranty does not cover misuse of the GoldenWarm Gas Insert as described in the Owner's Guide, nor does it cover a GoldenWarm Gas Insert 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 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 Dealer from whom you purchased your GoldenWarm Gas Insert. Do not operate the GoldenWarm Gas Insert 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.

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 SUPERCEDES 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 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.

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: _____

Burner Conversion: _____ LP/NG

Golden Warm™

Gas Insert
SKU # 2294

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

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