

# INSTALLATION INSTRUCTIONS

This Installation and Operations Manual contains information on three different appliance designs. Some illustrations shown are of one design and are meant to represent a technique or application only.

**"INSTALLER - THESE INSTRUCTIONS MUST BE CONVEYED TO HOMEOWNER."**

**WARNING: IMPROPER OPERATION, 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.**

HOMEOWNER: PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE.

## Installation And Operations Instructions

*For Superior's  
Vented Decorative  
Gas Appliances*

*Millivolt  
Natural Gas Models  
GST-8500N  
GPF-8500N  
GCR-8500RN  
GCR-8500LN*

*Millivolt  
Propane Gas Models  
GST-8500P  
GPF-8500P  
GCR-8500RP  
GCR-8500LP*

This installation manual will help you obtain a safe, efficient, dependable installation for your fireplace and vent system. Please read and understand these installation instructions before beginning your installation.

**WARNING: THE GST, GPF AND GCR SERIES FIREPLACES ARE VENTED DECORATIVE GAS APPLIANCES. DO NOT BURN WOOD OR OTHER MATERIAL IN THESE APPLIANCES.**

Do not attempt to alter or modify the construction of the appliance or its components. Any modification or alteration of construction may void the warranty, certification and approvals of these units.

### FOR YOUR SAFETY

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 or liquids in the vicinity of this or any other appliance.

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

Do not place clothing or other materials on or near the appliance.



Warnock Hersey  
Report No. 606-316300

**SUPERIOR**  
The Fireplace Company

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### GENERAL INFORMATION

#### In United States

These appliances comply with American National Safety Standards and are tested and listed by Warnock Hersey Inc. (Report No. 606-316300) to ANSI Z21.50-1990 as a vented decorative gas appliances.

Installation must conform to local codes. In the absence of local codes installation must conform with the current National Fuel Gas Code, ANSI Z223.1. These appliances, when installed, must be electrically grounded in accordance with local codes, and with the National Electrical Code, ANSI/NFPA No 70-1990.

#### In Canada

These appliances comply with the National Standards of Canada and are certified by Warnock Hersey Inc. (Report No. 606-316300) to CAN/CGA-2.22-M92, CAN/CGA-CR-93-004, and CAN/CGA-2.17-M91 as Vented Decorative Gas Appliances.

Installation must conform to local codes. In the absence of local codes, installation must conform with the current CAN 1-B149 Installation Code. The appliance, when installed, must be electrically grounded in accordance with local codes, or with the current CSA C22.2-1986 Canadian Electric Code.

**Note:** Installation and repair should be done by a qualified service person. The appliance should be inspected annually by a professional service person. More frequent inspections/cleanings may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that the control compartment, burners and circulating air passage ways of the appliance be kept clean.

Provide for adequate ventilation

Provide adequate clearances around air openings and adequate accessibility clearance for service and proper operation. Never obstruct the front opening of the appliance.

If the appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.

Minimum clearances to combustibles are: Sides ½" (13 mm), Floor 0", Back ½" (13 mm), Ceiling 41 ½" (1054 mm), Sidewall 0", B-Vent Surfaces 1" (25 mm), 8" (203 mm) chimney 1" (25 mm) or 2" (51 mm) (Refer to Installation Addendum, P/N 097692).

The systems have been designed to operated on either natural or propane gas only. The use of other fuels or combinations of fuels will degrade the performance of these systems.

Minimum inlet gas pressure is 4.5 inches water column for natural gas and 11 inches water column for propane for the purpose of input adjustment.

Maximum inlet gas supply pressure is 7.0 inches water column for natural gas and 13.0 inches water column for propane.

Input is 47,500 BTU/HR.

A ½" (3 mm) NPT plugged tapping is provided on the gas control along side of the outlet to the main burner for a test gage connection.

These appliances must not be connected to a chimney flue servicing a solid fuel burning appliance.

These appliances must be isolated from the gas supply piping system by closing their individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig.

The appliance 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 ½ psig (kPa).

**DO NOT USE THESE APPLIANCES IF ANY PART HAS BEEN UNDERWATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE APPLIANCE AND TO REPLACE ANY PARTS OF THE CONTROL SYSTEM OR ANY GAS CONTROL WHICH HAS BEEN UNDER WATER.**

### INTRODUCTION

The GST, GPF and GCR units are radiant systems that utilize a millivolt gas control valve and piezo ignition system. Glass door panels are standard equipment.

### SPECIAL PACKAGING

These appliances are shipped with the controls and burner tray installed and pre-wired at the factory. The burner tray is held in place by two (2) screws that secure the bottom flange of the burner tray to the refractory base. The logs, sand/vermiculite, grate and embers have been packed in their own separate carton that has been positioned directly above the control/burner assembly. This carton, in addition to the door package, must be removed before installation can begin.

### ASSEMBLY STEPS

1. Position appliance prior to framing or into prepared framing.
2. Route gas line up to firebox compartment and install the millivolt wall switch.
3. Install chimney or vent system.
4. Complete finished wall material and trim. (Refer to page 6 for Removal of Corner Shipping Posts.)

5. Uncarton and install the sand/vermiculite and logs.

6. Uncarton and install glass doors.

## INSTALLATION

**Step 1.** Frame fireplace enclosures as illustrated in Figures 1, 2, 3 or 4.

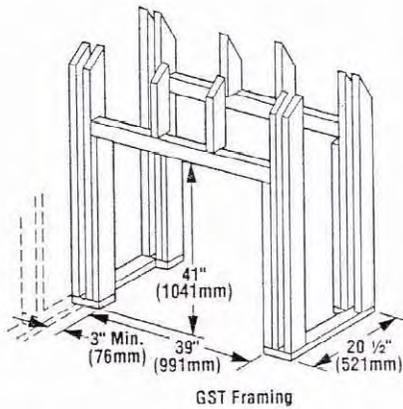


Figure 1

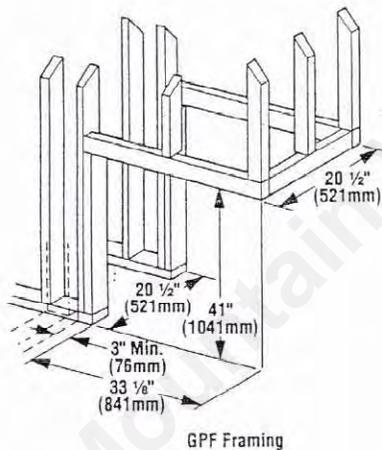


Figure 2

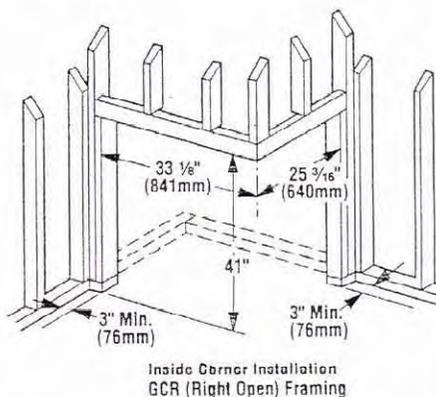
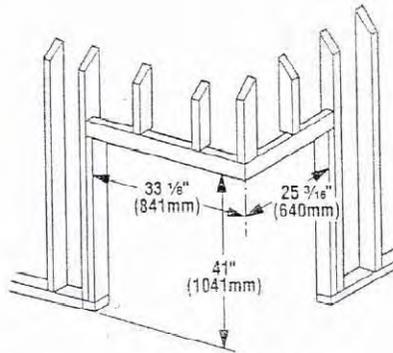


Figure 3



Outside Corner Installation  
GCR (Right Open) Framing

Figure 4

**Step 2.** Route a 1/2" (13 mm) NPT black iron gas line 3 19/16" (97 mm) above the floor surface (if fireplace will be resting on the floor) and 4" (102 mm) behind the face of the rough framing (Figure 5).

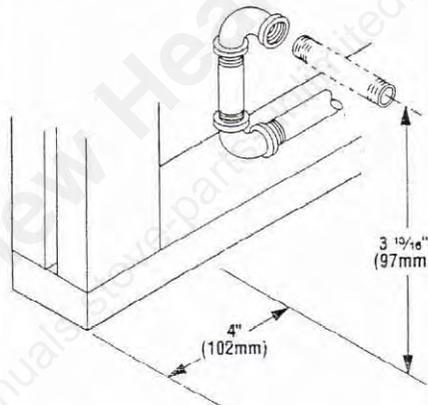


Figure 5

**Note:** Always install a sediment trap in the black iron pipe just outside the appliance (Figure 6).

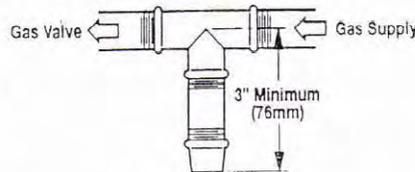


Figure 6

**Note:** Gas piping should be routed to the front side of framing in line with the gas controls (Refer to Figures 10 and 11 and to appliance specifications on pages 8, 9 and 10). The back side is framed for the right hand open GCR. This gas line should extend at least 2" (51 mm) into the control compartment at the time connection is to be made (Figure 7).

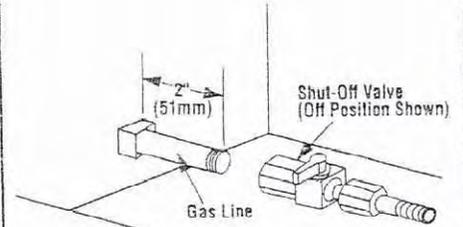


Figure 7

**Step 3.** Position the appliance into prepared framing, nailing with 6d nails through the nailing flange holes (Figure 8).

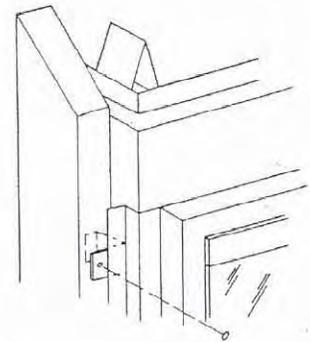


Figure 8

**Note:** The nailing flange and the area directly behind the nailing flanges are exempt from the clearance described on the clearance label.

**Step 4.** Install the remote wall switch – The appliance is shipped with all the internal wiring completed at the factory. Select a convenient location for the remote wall switch and connect the wiring found at the appliance (Figure 9).

**CAUTION: DO NOT CONNECT THE REMOTE SWITCH TO A 120V SUPPLY.**

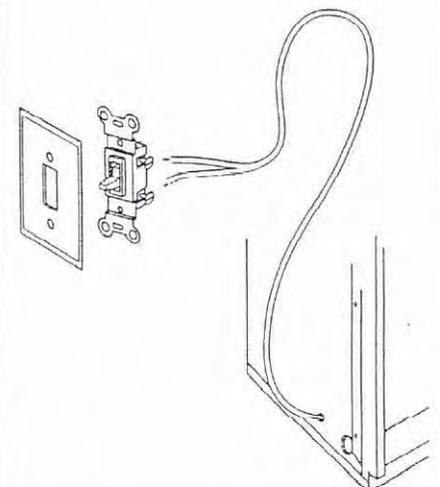


Figure 9

**Step 5.** Connect a listed 8" (203 mm) Type B<sup>+</sup> vent system to the appliance flue collar with a listed draft hood connector to start the vent. Install remainder of vent to the outside. Minimum height of the vent and appliance should be 12' (3.7 m).

**Note:** Refer to the vent manufacturers installation instructions for variations of Type B venting techniques.

**Note:** Before installing the complete vent system, it is important that the flue damper operates correctly after the vent has been installed. When installing a Type B venting system, it is suggested that a draft hood connector (DHC) be the first vent component attached to the appliance flue collar (Figure 10). It may be necessary to trim or crimp the DHC skirt in order to properly adapt to the collar without interfering with the flue damper. After the first vent component has been attached to the flue collar, check the flue damper to ensure that there is no interference.

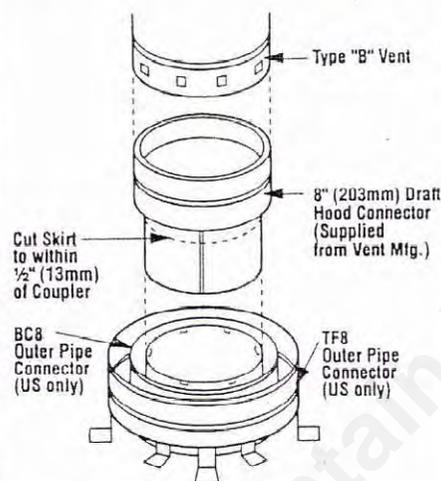


Figure 10

### Installing Gas Line

**Note:** The logs, grate, mineral fiber, and sand/vermiculite are packaged in their own carton and are shipped with each appliance model. The burner tray has been secured to the appliance at the factory.

**Step 6. 1/2" Flex Connector Procedure –** Attach a 1/2" (13 mm) x 12' (305 mm) length flex connector with a shut-off valve to the 1/2" (13 mm) gas supply stub. Use a wrench and pipe joint compound (where required). Tighten fitting securely (Figure 11).

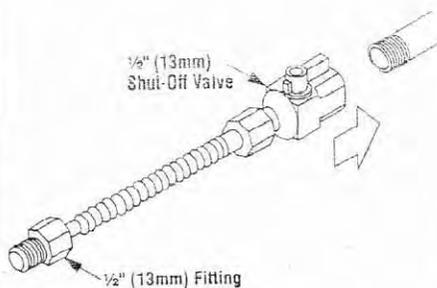


Figure 11

**Note:** Do not damage or kink the flex connector.

**Step 7.** Carefully bend and shape the flex gas connector so that a connection can be made to the gas valve. Caution should be used so as not to kink the gas connection.

**Note:** Check for gas leaks with soap and water solution.

**DO NOT USE OPEN FLAME FOR LEAK TESTING.**

**Step 8. Rigid Pipe Connection Procedure –** Extend previously installed 1/2" (13 mm) NPT gas supply pipe to the gas control valve. Figures 12 and 13 illustrate the sequence of connection. Secure all fittings tightly using a wrench and pipe joint compound where necessary.

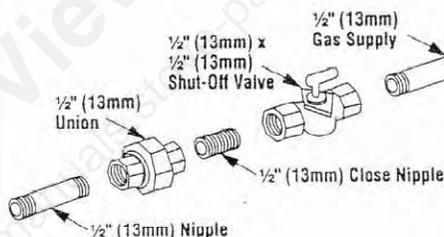


Figure 12

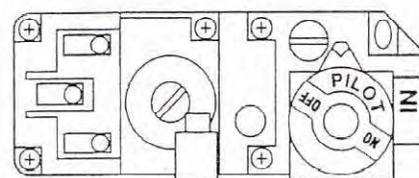


Figure 13

**Note:** Check for gas leaks with soap and water solution.

**DO NOT USE OPEN FLAME FOR LEAK TESTING.**

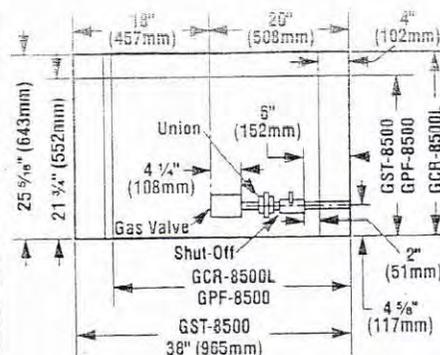


Figure 14

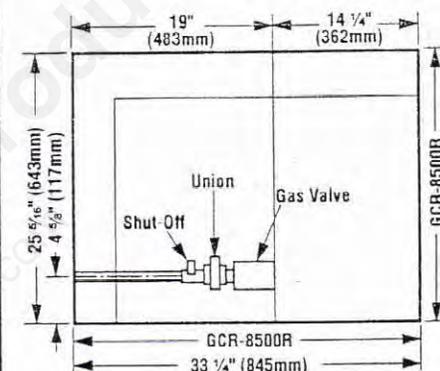


Figure 15

### Millivolt Wall Switch Wiring

**Step 9. Millivolt Wiring –** The burner tray has been fixed in place and has been pre-wired at the factory. The only required wiring is to locate and install the wall switch in a desired location and connect the millivolt wire to the wall switch. (Refer to Figure 16).

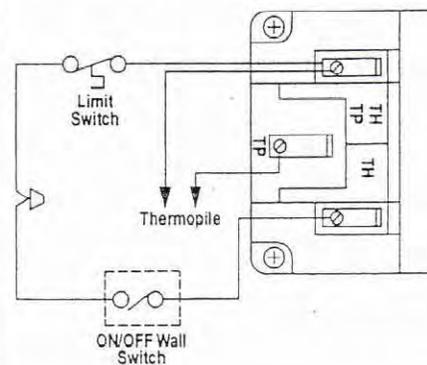


Figure 16

**CAUTION: DO NOT WIRE REMOTE WALL SWITCH TO A MAIN POWER SUPPLY — GAS VALVE WILL BE DAMAGED BEYOND REPAIR.**

\* Note: In the U.S. a TF8 or BC8 chimney may be used (Refer to Installation Addendum, P/N 097692).

## Preparing Burner Tray

**Step 10.** Fill the burner tray completely with sand for natural gas or vermiculite for propane gas. Be sure to cover and protect the pilot or ignitor before pouring the fill material.

**IMPORTANT: DO NOT USE SAND IN A PROPANE GAS SYSTEM.**

Slope this fill material to the same angle as the burner tray (Figure 17). It is recommended that the fill material be allowed to flow over the end of the burner tray to completely hide the metal tray from view. The fill material should also be allowed to cover part of the hearth directly in front of the burner tray.

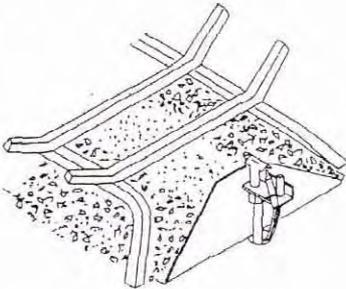


Figure 17

**Step 11.** Sprinkle the ember material, starting 2" (51 mm) from the center of the tray, evenly and lightly over the entire surface of the fill material. Add ember material directly in front of the grate to achieve an authentic ember bed.

**Step 12.** Carefully center the two (2) large fiber logs on the grate at least 1 1/2" (38 mm) apart. The space between these two (2) logs should be maintained. The remaining four (4) smaller logs can be arranged on the two (2) larger lower logs in any random manner which does not block the flame. The knot holes in the smaller log should be positioned as to allow the flame to be channeled out through the knot hole.

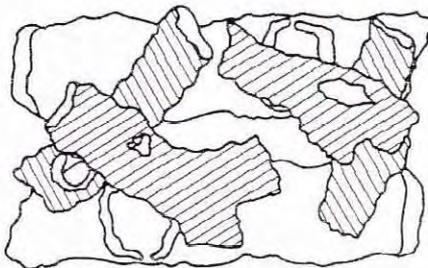


Figure 18

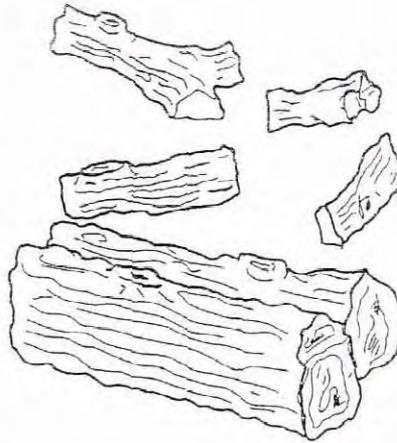


Figure 19

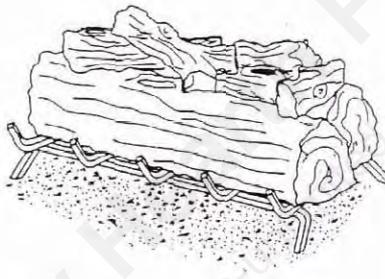


Figure 20

**CAUTION: THESE CERAMIC FIBER LOGS MUST BE HANDLED CAREFULLY. THEY WILL STAND UP INDEFINITELY TO EXTREME TEMPERATURES. HOWEVER, THEY ARE VERY FRAGILE AND ARE SUSCEPTIBLE TO CRUSHING AND/OR BREAKAGE IF HANDLED ROUGHLY.**

## COLD CLIMATE INSULATION

If you live in a cold climate, seal all cracks around your appliance with noncombustible material and wherever cold air could enter the room. It is especially important to insulate the outside chase cavity between studs and under floor on which it rests, if floor is above ground level.

Surround material must be caulked where it meets the black metal facing of the appliance to avoid air intrusion. Use noncombustible caulking material only on appliance facing to seal.

Do not place insulation materials in the gas vent or chimney system clearance spaces.

## HIGH ELEVATION DERATING

When installing these appliances above 4,000 foot level, it is recommended that the appliance burner be derated by changing the existing orifice to a smaller one. Order and install the appropriate high altitude orifice kit, P/N 040618 for natural gas or P/N 040616 for propane gas (Figure 21).

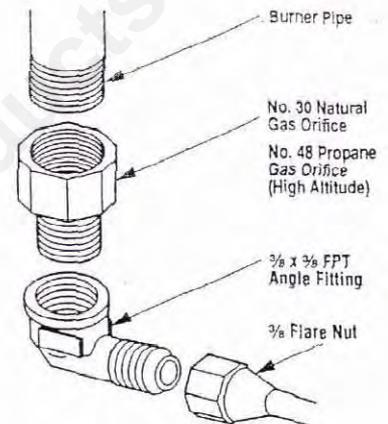


Figure 21

## FINISHED WALL DETAILS

It is best to frame your appliance after it is positioned. Frame with 2 x 4's or heavier lumber. Frame in accordance with local prevailing building codes.

*Note: The header may rest on the top metal spacers but must not be notched to fit around them.*

To install the appliance facing flush with the finished wall position framework to accommodate the thickness of the finished wall (Figure 22).

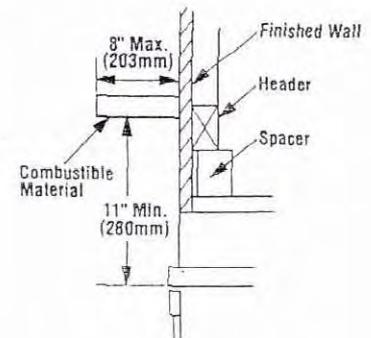


Figure 22

Noncombustible surround materials can be placed around the appliance facing to provide a flush surface between the surround materials and the fireplace facing (Figure 23).

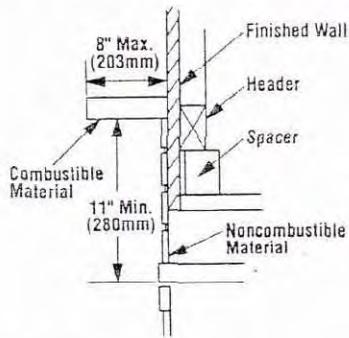


Figure 23

A combustible mantel shelf projecting a maximum of 8" (203 mm) from the wall may be installed a minimum distance of 11" (279 mm) above the appliance opening (Figure 24).

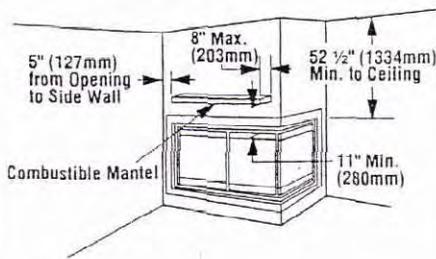


Figure 24

There are two (2) screws above the trim bar on the fireplace where facing material is applied. These screws may be removed once the installation of the appliance is complete.

### CORNER SHIPPING POSTS AND SYSTEM BRACING

Models GPF-8500 and GCR-8500L/R are shipped from the factory with metal shipping corner posts attached to the open corner(s). Model GPF has two (2) posts and Model GCR has one (1) post attached.

Do not remove the corner posts or any system bracing until after the appliance has been installed and secured to the framing materials. This precaution will reduce the chances of misalignment.

After installation is complete, the screws from the appliance bracing should be reinstalled into the holes in the fireplace framing.

### Removal of Shipping Posts

**Step 1.** Lift up on the door panels closest to the corner. Carefully tilt the bottom of the door toward you and down to remove.

**Step 2.** Remove the end panel by lifting up and tilting out.

**Step 3.** Remove the three (3) screws in the shipping post as illustrated in Figure 25. The top screw is located behind the post.

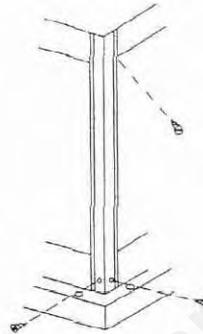


Figure 25

**Step 4.** Reverse Steps 1 and 2 to replace the end panel and glass door panel(s). Replace screws removed from corner shipping posts.

### GLASS DOOR INSTALLATION AND ADJUSTMENTS

Your appliance is provided with a set of glass door panels that must be installed and adjusted before the appliance is considered complete. These door panels have been shipped installed inside a protective wrapper that must be carefully unpacked. Discard the protective washers on the lower pins and inspect each door panel for signs of damage.

The GST appliance has two (2) door panels. The GCR L/R appliances have one (1) door panel and one (1) left or right end panel. The GPF appliance has two (2) door panels and one (1) end panel.

The end panels for the GCR and GPF should be installed first and the door panels should be installed last.

The door panels have pins that insert into the top trim and hexagonal bottom pins that drop into holes in the lower trim. The end panels have an upper trim bracket (Figure 26) that will engaged the support screw (Figure 27) on the back of the door panel.

### To Adjust

The door panels for the GCR and GPF are aligned by connecting the upper trim to the upper trim brackets of the end panels. After all panels have been installed visually check to determine if the upper door panel and end panels are aligned with each other. Individual panels can be raised or lowered by turning the bottom pins of the door panels either clockwise or counterclockwise as required.

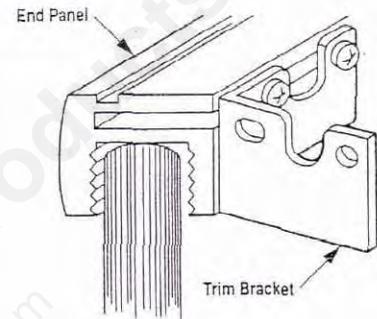


Figure 26

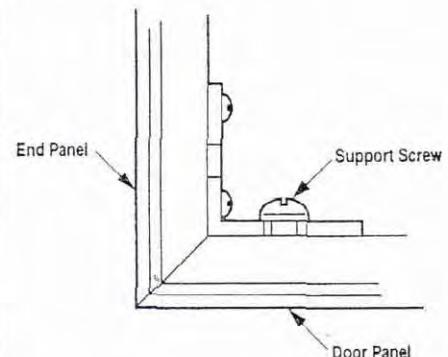


Figure 27

## APPLIANCE OPERATION

To operate the appliance, refer to the lighting instructions located on the bottom of the control compartment or on pages 12 and 13 of this manual.

Your appliance control system is a millivolt type. It consists of a pilot burner, piezo ignition, a gas control valve and a manual ON/OFF wall switch. A temperature limit switch is wired in series with the millivolt wall switch. If a higher than normal temperature is sensed, due to a blocked vent or a prolonged downdraft, the limit switch will open resulting in a burner shut-off.

To obtain proper operation, it is imperative that the pilot and main burner flame characteristics are steady, not lifting or floating.

Approximately the top  $\frac{3}{8}$ " (10 mm) of the pilot generator (thermopile) should be engulfed in the pilot flame (Figure 28).

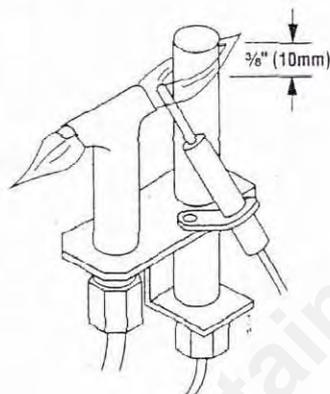


Figure 28

**WARNING: 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 SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.**

## OPERATION GUIDELINES AND MAINTENANCE INSTRUCTIONS

1. Upon completing your gas line connection, a small amount of air will be in the lines. When first lighting the appliance, it will take a few minutes for the lines to purge themselves of this air. Once purging is complete, the pilot and burner will light and operate as indicated in the instruction manual. Subsequent lightings of the appliance will not require such purging.

2. When lit for the first time, the appliance will emit a slight odor for an hour or two. This is due to the "curing" of the logs and "Burn-in" of internal paints and lubricants used in the manufacturing process.

3. Keep control compartment, logs, burners and area surrounding the logs clean by vacuuming or brushing at least twice a year. Use care when handling logs, they are fragile. Do not vacuum the mineral wool located in the front of the burner assembly.

**CAUTION: THE LOGS CAN GET VERY HOT — HANDLE ONLY WHEN THE LOGS ARE COOL.**

4. Always turn off gas to pilot before cleaning. Before re-lighting, refer to the lighting instructions.

5. The appliance and venting system should be inspected before use or at least annually by a qualified service person.

6. Always keep the appliance area clear and free from combustible materials, gasoline and other flammable liquids.

7. Never obstruct the flow of ventilation air. Keep the front of the appliance clear of all obstacles and materials.

## Maintenance

**IMPORTANT: TURN OFF GAS BEFORE SERVICING APPLIANCE. IT IS RECOMMENDED THAT A QUALIFIED SERVICEMAN PERFORM THESE CHECKUPS AT THE BEGINNING OF EACH HEATING SEASON.**

In order to properly clean the burner and pilot assembly, remove the logs and expose the burner and pilot assembly.

### Cleaning Burner and Pilot

Clean all foreign materials from top of burner and from bottom control compartment below burner. Check to make sure that burner orifice is clean.

Visually inspect pilot. Brush or blow away any dust or lint accumulations. If pilot orifice is plugged, disassembly may be required to remove any foreign material from orifice or tubing. When appliance is put back in service, check pilot flame patterns with Figure 28.

### Pilot Burner Adjustments

1. Remove pilot adjustment cap screw on main valve.
2. Adjust pilot screw to provide properly sized flame (Figure 28).
3. Replace pilot adjustment cap screw.

### Testing/Replacement of Limit Switch

**Note:** To test and/or replace the limit switch, the switch assembly must be detached from the appliance. The switch assembly is located in the control opening side of the GST, GPF and GCR Models. Remove the two (2) Phillips head screws from under the trim bar. The switch plate assembly can be lowered to test or replace the switch (Figure 29). Refer to pages 14 and 15 to identify switch.

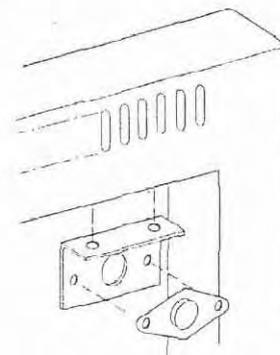


Figure 29

## OPTIONAL EQUIPMENT

### Combustion Air Kit

When outside combustion air is desired, Model CAK-4 or Model CAK-4LD must be used. Refer to the installation instructions packed with the combustion air kit for specific installation information. The outside air kit must be installed before the appliance is framed and enclosed in the finished walls. With the combustion air kit installed, the outside air will flow into the appliance on demand. The heat from the flame will create a negative pressure in the appliance, causing the internal air damper to open and allow outside air to flow. When there is no flame present, the air damper will automatically shut and stop outside air from entering. The GST Models have a provision that enables the installer to switch the outside combustion air damper to the opposite side, in the event that the desired orientation calls for the combustion air source to be located on the reverse end.

### Wireless Remote Control Switch

A wireless remote control kit, Model RCK, can be used in lieu of the manual ON/OFF wall switch. The kit consists of a receiver and a hand held transmitter. The receiver can be operated either in a manual ON/OFF mode or in the remote position. Both the receiver and transmitter operate on 9 volt batteries (not supplied by Superior). Refer to the wireless remote control switch kit installation instructions (P/N 095002) for specific installation details.

## TROUBLESHOOTING

With proper installation and maintenance, your new gas fireplace should provide years of trouble free service. If you do experience a problem, trouble shooting guides are provided in this manual. These guides will assist you or a qualified service person in the diagnosis of problems and the corrective action to be taken.

## WARRANTY

Your gas fireplace is covered by a one year limited warranty. You will find a copy of the warranty in this manual. Please read the warranty to be familiar with its valuable coverage and file it with others you save for future reference.

## REPLACEMENT PARTS

Contact the factory for questions concerning prices and policies covering replacement parts. Parts will be shipped at prevailing prices. Normally, all parts can be ordered through your Superior distributor or dealer.

When ordering repair parts, always give the following information:

1. The model number of the appliance
2. The part number
3. The description of the part.
4. The quantity required.
5. The installation date of the appliance.

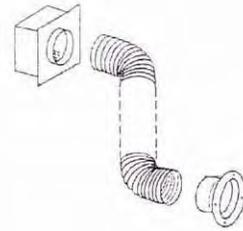
### SUPERIOR'S ACCESSORY PARTS AND COMPONENT LIST FOR THE GST-8500, GPF-8500 AND GCR-8500L/R SERIES APPLIANCES

The following accessory parts and components are to be used only with these appliance systems. Separate installation instructions are packaged with these items.

If you encounter any problems or have any questions concerning the installation or application of these systems, please contact your local distributor. For the name of your nearest distributor contact:

**SUPERIOR FIREPLACE COMPANY**  
4325 Artesia Avenue  
Fullerton, CA 92633  
(714) 521-7302

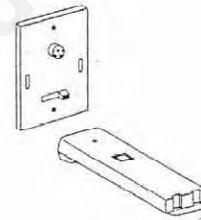
Model	Part Number	Weight
GST-8500N	P/N 048211	265 lbs.
GST-8500P	P/N 048212	265 lbs.
GPF-8500N	P/N 050451	240 lbs.
GPF-8500P	P/N 050452	240 lbs.
GCR-8500LN	P/N 050473	250 lbs.
GCR-8500LP	P/N 050474	250 lbs.
GCR-8500RN	P/N 050471	250 lbs.
GCR-8500RP	P/N 050472	250 lbs.



Combustion Air Kit  
(Less Duct)

P/N 008373  
P/N 045341

CAK-4  
CAK-4LD



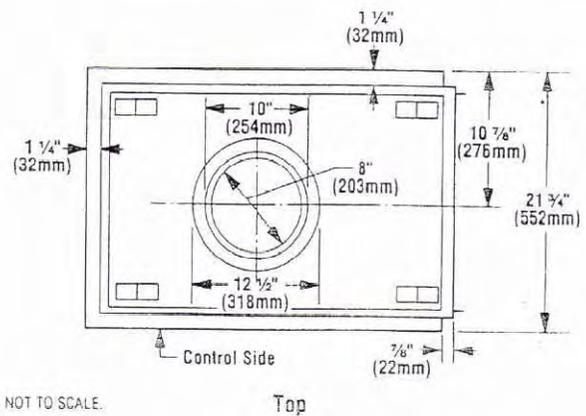
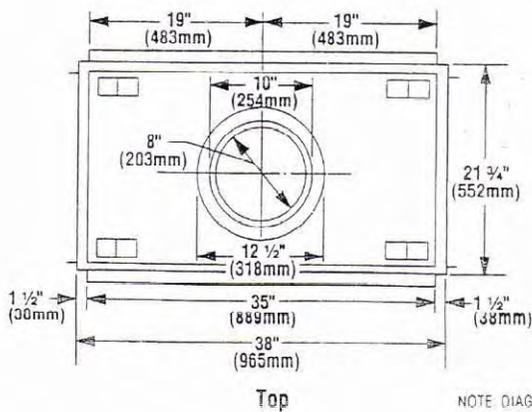
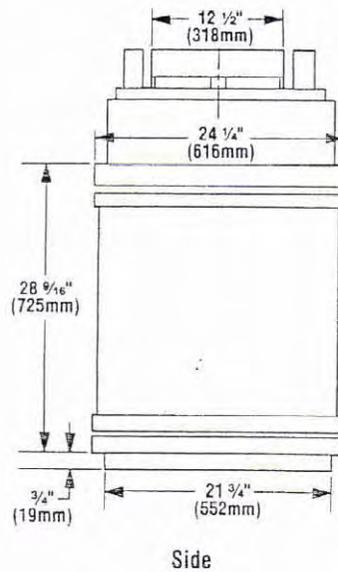
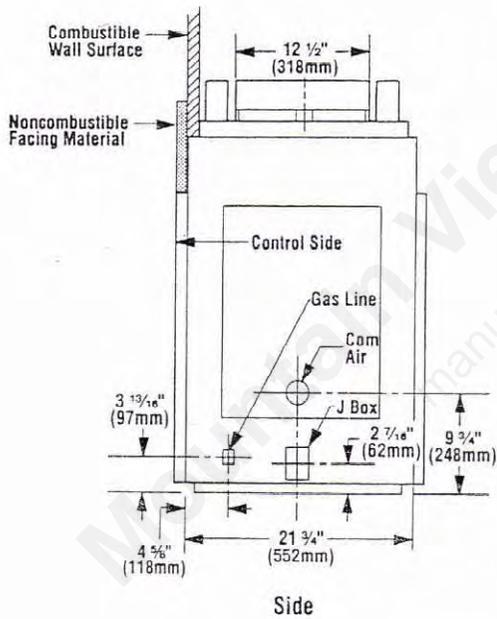
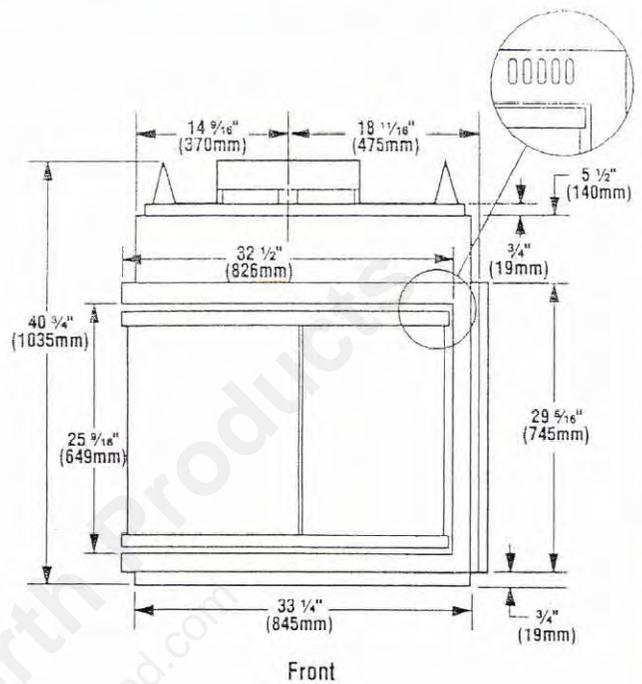
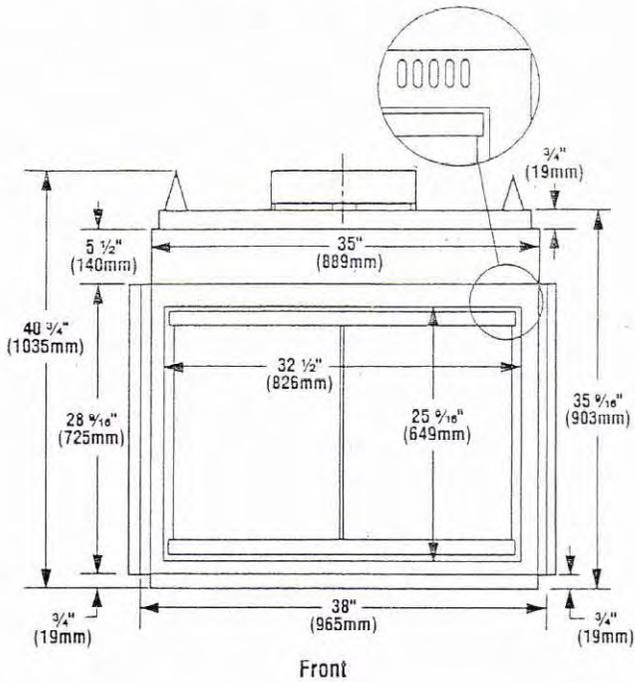
Remote Control Kit

P/N 035591

RCK

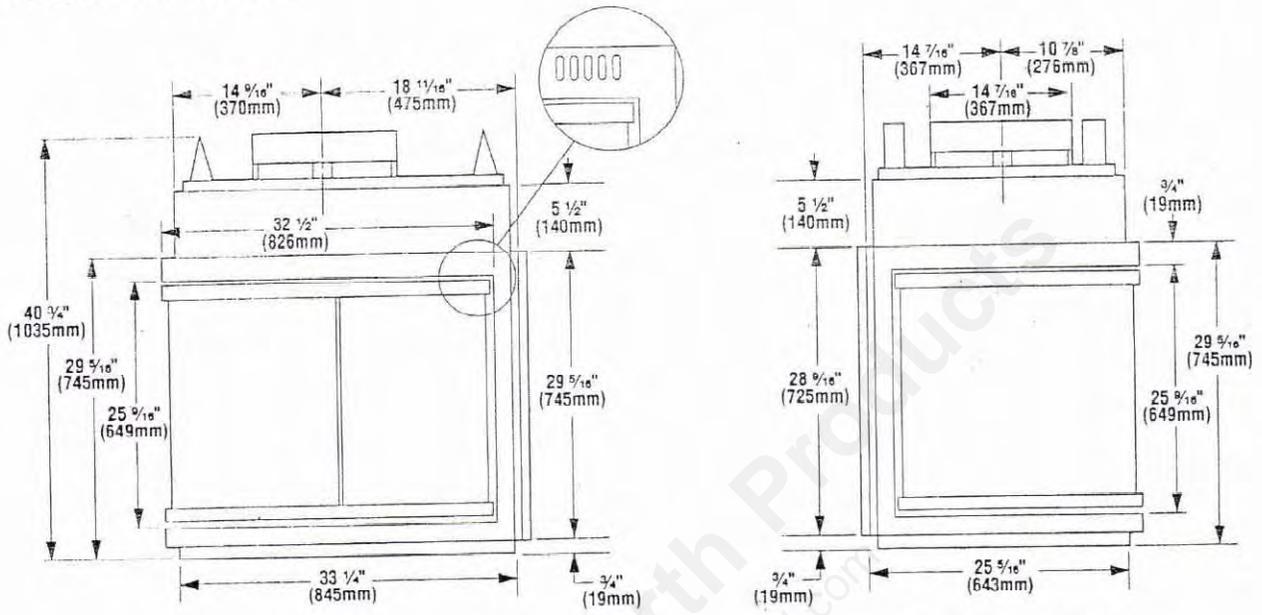
# GST-8500 FIREPLACE SPECIFICATIONS

# GPF-8500 FIREPLACE SPECIFICATIONS



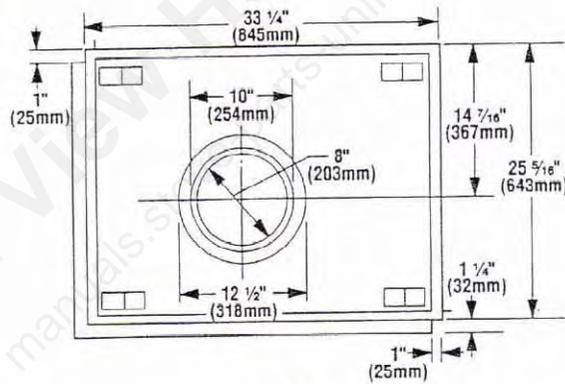
NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE.

# GCR-8500L/R FIREPLACE SPECIFICATIONS

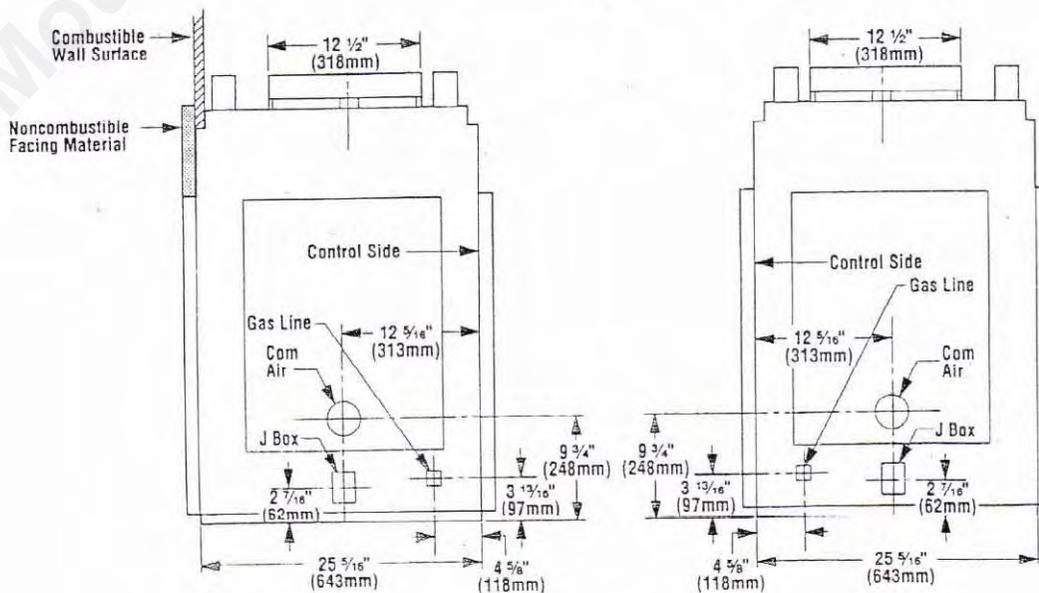


Left Front Open Shown

Left End Open Shown



Top



Right Side

Left Side

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE.

## TROUBLESHOOTING THE MILLIVOLT PIEZO IGNITION AND GAS CONTROL SYSTEM

MODELS GST-8500N/P, GPF-8500N/P, GCR-8500RN/P, GCR-8500LN/P

**Note:** Before trouble shooting the millivolt piezo ignitor system, be sure that the external gas shut-off valve, located at the gas supply inlet, is in the "ON" position.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Spark ignitor will not light pilot after repeated triggering of red button.	A. Defective ignitor. (No spark at electrode)	Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace the ignitor.
	B. Defective or misaligned electrode at pilot. (Spark at electrode.)	Using a match, light the pilot. If pilot lights, turn off pilot and trigger the red button again. If pilot lights - an improper gas mixture caused the bad lighting and a longer purge period is recommended. If pilot does not light - check gap at electrode and pilot - should be 1/8" to have a strong spark. If OK, replace pilot assembly (Figure 28).
2. Pilot will not stay lit after carefully following lighting instructions.	A. Defective pilot generator (thermopile) or remote wall switch wiring.	<p>Check Pilot flame. It must impinge on pilot generator (Figure 28). Clean and/or adjust pilot for maximum flame impingement on generator.</p> <p>Be sure wire connections from generator at gas valve terminals are tight and generator is fully inserted into pilot bracket.</p> <p>One of the wall switch wires may be grounded. Remove wall switch wires from valve terminals. If pilot now stays lit, trace wall switch wire for a ground. May be grounded to appliance or gas supply.</p> <p>Check pilot generator with millivolt meter. Take reading at generator terminals of gas valve. Should read 325 millivolts minimum while holding valve knob depressed in pilot position and wall switch "OFF." Replace faulty generator if reading is below specified minimum.</p>
	B. Defective automatic valve operator.	Turn knob to "ON," place wall switch to "ON." Millivolt meter should read greater than 100 mV. If the reading is OK and the burner does not come on, replace the gas valve..
3. Pilot burning, no gas to burner, valve knob "ON," wall switch "ON."	A. Wall switch or wires defective.	Check wall switch and wires for proper connections. Jump wires for proper connections. Place jumper wire across terminals at wall switch. If burner comes on, replace defective wall switch. If OK, place jumper wires across wall switch wires at gas valve. If burner comes on, wires are defective or connections are bad.
	B. Limit switch defective.	Check limit switch and wires* for proper connection. Place jumper wire across terminals at limit switch. If burner comes on, replace defective limit switch.
	C. Pilot generator may not be generating sufficient millivoltage.	Recheck Symptom #2.
	D. Plugged burner orifice.	Check burner orifice for blockage and remove.
4. Frequent pilot outage problem.	A. Pilot flame may be too low or blowing (high) causing the pilot safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on pilot generator (Figure 28).

## GCR/GPF/GST-8500 SERIES — MILLIVOLT SYSTEM LIGHTING INSTRUCTIONS

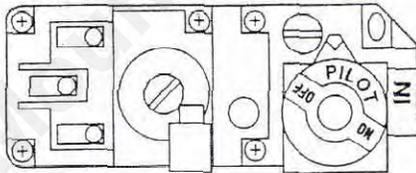
### FOR YOUR SAFETY READ BEFORE LIGHTING

**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 which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE OPERATING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS:**
- 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.
- C. Use only your hand to push in or turn the gas control lever. Never use tools. If the lever will not push in or turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or an explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

### LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information above on this page.
  2. Turn remote wall switch to "OFF."
  3. Remove access panel.
  4. Push in gas control knob slightly and turn clockwise to "OFF."
  5. Wait five (5) minutes to clear out any gas. If you then smell gas, **STOP!** Follow "B" in the safety information above on this page. If you do not smell gas, go to the next step.
  6. Push knob on gas control counterclockwise to "PILOT."
  7. Push in control knob all the way and hold in. Immediately light the pilot by triggering the spark ignitor (pushing red button) until pilot lights. Continue to hold the control knob in for about 1 1/2 minutes after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat Steps 4 through 7.
  8. Replace access panel.
  9. Turn gas control knob counterclockwise to "ON."
- Note: Knob cannot be turned from "PILOT" to "OFF" unless the knob is pushed in slightly. Do not force.*



### TO TURN OFF GAS TO APPLIANCE

1. Turn remote wall switch "OFF." The pilot will remain lit for return to normal service.
2. For complete shut-down, turn remote wall switch to "OFF."
3. Remove access panel.
4. Push in gas control knob slightly and turn clockwise to "OFF." Do not force.
5. Replace access panel.

## POUR VOTRE SURETE LISEZ AVANT L'ALLUMAGE

**AVERTISSEMENT: SI VOUS NE SUIVEZ PAS EXACTEMENT CES INSTRUCTIONS, UN FEU OU UNE EXPLOSION POURRA CAUSER DOMMAGE DE PROPRIETE, BLESSURE PERSONNELLE OU PERTE DE VEI.**

- A. Cet appareil a un pilote qui doit être allumé manuellement. Quand vous allumez le pilote, suivez exactement les instructions.
- B. **AVANT D'ALLUMER** sentez autour de l'appareil pour le gaz. Assurez vous de la senteur près du plancher parce que certain gaz est plus pesant que l'air et se déposera sur le plancher.

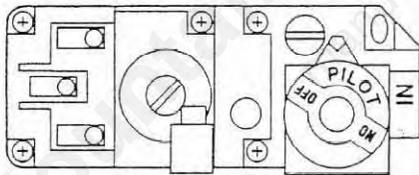
## QUOI FAIRE SI VOUS SENTEZ LE GAZ:

- N'essayez pas d'allumer l'appareil.
- Ne touchez pas aucun connecteur électrique; ne vous servez pas d'aucun téléphone dans votre édifice.

- Appelez votre fournisseur de gaz immédiatement d'un téléphone voisin. Suivez les instruction du fournisseur de gaz.
  - Si vous ne pouvez pas atteindre votre fournisseur de gaz, appelez le département d'incendie.
- C. Servez vous seulement de votre main pour engager ou tourner le levier de réglage à gaz. N'employez jamais d'outils. Si le levier n'engage pas ou tourne pas à la main, n'essayez pas de le réparer, appelez un technicien de service qualifié. Force et essai de réparation peut aboutir à un feu ou à une explosion.
- D. Ne vous servez pas de cet appareil si une partie à trappé dans l'eau. Appelez un technicien de service qualifié immédiatement pour inspecter l'appareil et remplacer n'importe quelle partie du système de commande et n'importe quel commande à gaz qui on été sous l'eau.

## INSTRUCTIONS D'ALLUMAGE

1. **ARRETEZ!** Lisez l'information de sûreté au dessus de cette étiquette.
2. Tournez le télerupteur à "FERME."
3. Enlevez le panneau d'access.
4. Engagez le bouton de réglage à gaz légèrement et tournez dans le sens des aiguilles d'une montre à "FERME."



*Note: Le bouton ne doit pas être tourné de "PILOT" à "FERME" moins que le bouton soit légèrement engagé. Ne forcez pas.*

5. Attendez (5) minutes pour libérer le gaz. Si vous sentez du gaz, **ARRETEZ!** Poursuivez "B" dans l'information de sûreté au dessus de cette étiquette. Si vous ne sentez pas de gaz, allez donc au prochain gradin.

6. Tournez le bouton sur le réglage à gaz en sens inverse des aiguilles d'une montre à "PILOT."
7. Engage le bouton de réglage à gaz tout le long et retenez. Allumez le pilote immédiatement avec une allumette allumée ou en déclenchant l'étincelleuse (engagant le bouton rouge) avant que le pilote s'allume. Continuez se retenir le bouton de réglage pour à peu pres 1 1/2 minutes après que le pilote est allumé. Relachez le bouton et il va se relever sueitement. Le pilote devra rester allumé. Si el s'eteint, repetez le gradin 4 jusqu'a 7.

- Si le bouton ne se relève pas après été relâché, arrêtez immédiatement et téléphonez votre technicien de service ou votre fournisseur de gaz.
- Se le pilote ne veut pas rester allumé après quelques essais. Tournez le bouton de réglage à gaz à la position "FERME" et téléphonez votre technicien de service ou votre fournisseur de gaz.

8. Remplacez le panneau d'accès.
9. Tournez le bouton de réglage à gaz en sens inverse des aiguilles d'une montre à "OUVERT."

## FERMER LE GAZ A L'APPAREIL

1. Tournez le télerupteur mural à "FERME." Le pilote va resté allumé jusqu' au retour du service normal.
2. Pour une fermeture complete, tournez le télerupteur mural à "FERME."
3. Enlevez le panneau d'accès.

4. Engagez le bouton de réglage à gaz légèrement et tournez dans le sens des aiguilles d'une montre à "FERME." Ne forcez pas.
5. Remplacez le panneau d'accès.

### REPLACEMENT PARTS LIST

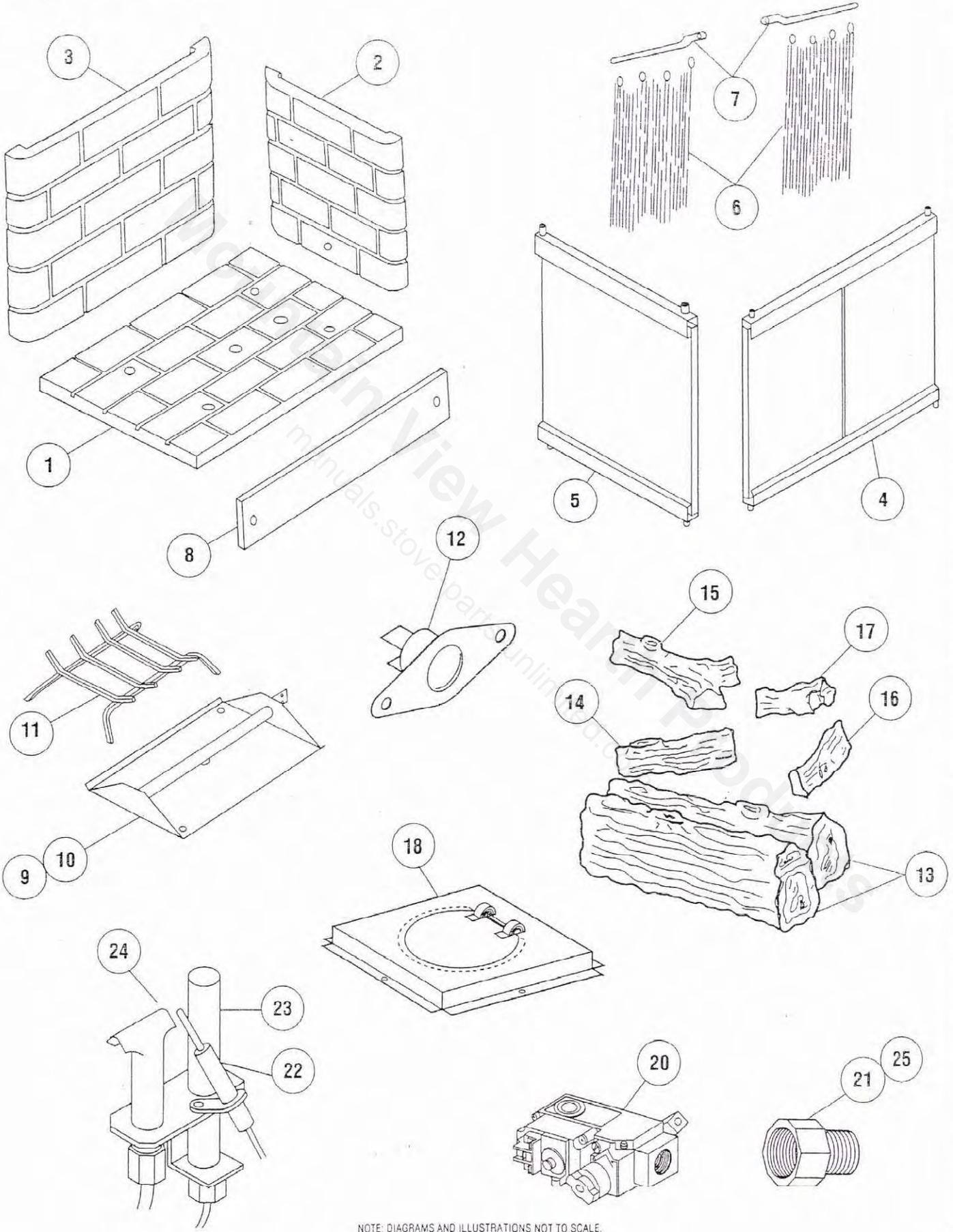
Item	Description	GST-8500		GPF-8500		GCR-8500(L)		GCR-8500(R)	
		Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
1	Refractory, Bottom	048831	1	048831	1	048831	1	048831	1
2	Refractory, Sides	033081	2	033081	1	-	-	-	-
3	Refractory, Rear	-	-	-	-	050681	1	050681	1
4	Glass Panel	050711	2	050711	2	050711	1	050711	1
5	Glass Panel, End	-	-	050731	1	-	-	-	-
	Glass Panel, End (Left)	-	-	-	-	050732	1	-	-
	Glass Panel, End (Right)	-	-	-	-	-	-	050733	1
6	Panel, Screen/Pull	093074	4	093074	2	093074	2	093074	2
7	Rod, Screen	094841	4	094841	2	094841	2	094841	2
8	Cover Plate Assy.	048931	1	048931	1	048931	1	048931	1
9	Burner Pan Assy., Natural Gas	048851	1	048851	1	048851	1	048851	1
10	Burner Pan Assy., Propane Gas	048853	1	048853	1	048853	1	048853	1
11	Grate, Assy.	048841	1	048841	1	048841	1	048841	1
12	Switch, Limit	097367	1	097629	1	097367	1	097367	1
13	Base Logs	041205	2	041205	2	041205	2	041205	2
14	12" Top Log (With Hole)	041191	1	041191	1	041191	1	041191	1
15	12" Top Log (Y With Hole)	041192	1	041192	1	041192	1	041192	1
16	8" Top Log (Straight)	041196	1	041196	1	041196	1	041196	1
17	8" Top Log (Straight)	041193	1	041193	1	041193	1	041193	1
18	Bi-Metal Damper Assy.	044981	1	044981	1	044981	1	044981	1

### ROBERTSHAW CONTROLS REPLACEMENT PARTS LIST

Item	Description	8500N		8500P	
		Part No.	Qty.	Part No.	Qty.
20	Valve, Gas	009737	1	093771	1
21	Orifice (#29 Nat., #46 Pro.)	096913	1	097971	1
22	Ignitor, Piezo	091301	1	091301	1
23	Generator	094699	1	094699	1
24	Pilot Assy., (#.018 Nat., #.010 Pro.)	093763	1	093764	1
25*	High Altitude Orifice Kit	040618	1	040616	1

\* Item 25 intended for high altitude installation.

# REPLACEMENT PARTS



NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE.

## Superior 8500 Series Gas Fireplace Limited Warranty 1 Year

### THE WARRANTY

Superior Fireplace Company warrants this 8500 Series Vented Decorative Gas Appliance to be free from defects in materials and workmanship at the time of manufacture.

### REMEDY AND EXCLUSIONS

The coverage of this Warranty is limited to all components of the vented decorative gas appliance manufactured by Superior Fireplace Company, with the exception of flame colorization devices, ceramic fiber logs, and Superior glass enclosure panel.

This Warranty only covers Superior vented decorative gas appliances installed in the United States or Canada.

If the vented decorative gas appliance covered by this Warranty is found to be defective within one year from the date of installation (see Superior's right of investigation outlined below), Superior will, at its option, replace or repair defective components of the vented decorative gas appliance manufactured by Superior Fireplace Company at no charge and will also pay for reasonable labor costs incurred in replacing or repairing such components. If repair or replacement is not commercially practical, Superior will, at its option, refund the purchase price of the Superior vented decorative gas appliance. With respect to the glass enclosure panel, the remedies of this paragraph are available for 90 days from the date of installation.

This Warranty covers only parts and labor as provided above. In no case shall Superior Fireplace Company be responsible for materials, components, or construction which are not manufactured or supplied by Superior Fireplace Company; or for the labor necessary to install, repair, or remove such materials, components or construction. All replacement or repair components will be shipped F.O.B. the nearest Superior Fireplace Company factory.

### QUALIFICATIONS TO THE WARRANTY

The vented decorative gas appliance Warranty outlined above is further subject to the following qualifications:

- (1) The vented decorative gas appliance must be installed in accordance with Superior Fireplace Company installation instructions and local building codes. The Warranty on this Superior vented decorative gas appliance covers only the component parts manufactured by Superior Fireplace Company. The use of components manufactured by others with this Superior vented decorative gas appliance (except for a listed venting system as prescribed in the installation instructions) could create serious safety hazards, may result in the denial of certification by recognized national safety agencies, and could be in violation of local building codes. This Warranty does not cover any damages occurring from the use of any components not manufactured or supplied by Superior Fireplace Company.
- (2) The Superior vented decorative gas appliance must be subjected to normal use. The vented decorative gas appliances are designed to burn either natural or propane gas only. Burning conventional fireplace fuels such as wood, coal, or any other solid fuel will cause damage to the vented decorative gas appliance, will produce excessive temperatures and will result in a fire hazard.

### LIMITATION ON LIABILITY

It is expressly agreed and understood that Superior Fireplace Company's sole obligation and purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above.

In no event shall Superior Fireplace Company be responsible for any incidental or consequential damages caused by defects in its products, whether such damage occurs or is discovered before or after replacement or repair, and whether or not such damage is caused by Superior Fireplace Company's negligence. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. The duration of any implied warranty with respect to this Superior vented decorative gas appliance is limited to the duration of the foregoing warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above may not apply to you.

### INVESTIGATION OF CLAIMS AGAINST WARRANTY

Superior Fireplace Company reserves the right to investigate any and all claims against this Warranty and to decide upon method of settlement.

### SUPERIOR FIREPLACE COMPANY NOT RESPONSIBLE FOR WORK DONE WITHOUT WRITTEN CONSENT

Superior Fireplace Company shall in no event be responsible for any warranty work done without first obtaining Superior's written consent.

### DEALERS HAVE NO AUTHORITY TO ALTER THIS WARRANTY

Superior Fireplace Company's employees and dealers have no authority to make any warranties nor to authorize any remedies in addition to or inconsistent with those stated above.

### HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this Warranty to be valid, Superior Fireplace Company must be notified of the claimed defect in writing or by telephone to Superior Fireplace Company, attention Customer Service Department, 4325 Artesia Avenue, Fullerton, California 92633, Telephone: 714-521-7302, as soon as reasonably possible after the defect is discovered. Claims against this Warranty in writing should include the date of installation, and a description of the defect.

### OTHER RIGHTS

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Superior reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also in discontinued colors, styles and products. Consult your local distributor for fireplace code information.

 **SUPERIOR**  
The Fireplace Company

4325 Artesia Avenue • Fullerton, CA 92633-2522  
(800) 854-0257