






We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

## **WARNING:**

### **FIRE OR EXPLOSION HAZARD**

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

-  Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
-  **WHAT TO DO IF YOU SMELL GAS:**
  - Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - Leave the building immediately.
  - 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 or 911.
-  A qualified installer, service agency, or gas supplier must perform installation and service of this appliance. In the Commonwealth of Massachusetts, all installation of gas lines and gas fittings must be performed by a licensed gas fitter or licensed plumber.

# CARINA

Series 8960

**DIRECT-VENT GAS FIREPLACE INSERT**

OEM Model# FIN-36N & FIN-36P

## **Owner's Manual**

### **Installation & Operating Instructions**

**Read This Manual in Its Entirety**  
Operate and Maintain This Gas Heater  
According to This Instruction Manual.

**SAVE THESE INSTRUCTIONS**



**Report #0361GN004S**

## **DANGER**




**HOT GLASS WILL  
CAUSE BURNS.**

**DO NOT TOUCH GLASS  
UNTIL COOLED.**

**NEVER ALLOW CHILDREN  
TO TOUCH GLASS.**

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

### **California Prop 65**

 **WARNING:** This product can expose you to chemicals including glass wool fiber and carbon monoxide which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Ce manuel est disponible en Francais a  
[www.hearthstonetech.com](http://www.hearthstonetech.com)

**POÊLE AU GAZ À VENTILATION DIRECTE****Manuel de l'Utilisateur****Lire ce Manuel en Entier**

Utiliser et Entretienir ce Poêle au Gaz  
selon ce Manuel d'Instructions

**CONSERVER CES INSTRUCTIONS!**

**AVERTISSEMENT:****RISQUE D'INCENDIE OU D'EXPLOSION**

**Le non-respect des avertissements de sécurité  
serait exactement entraîner des blessures graves,  
la mort ou des dommages matériels.**

- ☞ Ne pas entresposer ni utiliser d'essence ni d'autre vaperurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.
- ☞ **QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:**
  - Ne pas tenter d'allumer d'appareil.
  - Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le batiment où vous vous trouvez.
  - Quittez le bâtiment immédiatement.
  - Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
  - Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies
- ☞ L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

**DANGER**

**UNE VITRE CHAUDE PEUT  
CAUSER DES BRÛLURES.**

**NE PAS TOUCHER UNE  
VITRE AVANT QU'ELLE NE  
REFROIDISSE.**

**NE JAMAIS LAISSER UN  
ENFANT TOUCHER À LA VITRE.**

Une barrière de sécurité est recommandée pour réduire les risques de brûlures causées par la vitre chaude de cet appareil et doit être installée pour la protection des enfants et d'autres personnes à risque.

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**WE STRONGLY SUGGEST THAT YOU READ THIS MANUAL THOROUGHLY BEFORE BEGINNING THE INSTALLATION OF THE CARINA DIRECT VENT GAS FIREPLACE. ALTHOUGH THE BASIC REQUIREMENTS FOR THE INSTALLATION OF ALL DIRECT VENT GAS FIREPLACES ARE SIMILAR, EACH SPECIFIC PRODUCT HAS ITS OWN UNIQUE SET-UP AND INSTALLATION REQUIREMENTS THAT MUST BE FOLLOWED EXACTLY. PLAN YOUR INSTALLATION IN ADVANCE BY CAREFULLY REVIEWING ALL THE INFORMATION CONTAINED IN THIS MANUAL.**

## Important Safety Information

The installation must conform with local codes or, in the absence of local codes, with the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, or the *Natural Gas and Propane Installation Code, CSA B149.1*.

A manufactured home (USA only) or mobile home OEM installation must conform with the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280* or when such a standard is not applicable, the *Standard for Manufactured Home Installations, ANSI/BCSBCS A225.1*, or *Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4*.

The appliance and its appliance main gas 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 psi (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

The installation must provide for adequate ventilation air to the appliance.

This gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

The appliance, when installed, must be electrically grounded in accordance with local codes, or, in the absence of local codes, with the *National Electrical Code ANSI/NFPA 70*, or the *Canadian Electrical Code, CSA C22. 1*.

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.

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.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies. Installation of a TV or, any other electrical appliance, above this fireplace is not allowed.

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. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or a stove, install an adjustable safety gate to keep toddlers, young children and other at-risk individuals out of the room and away from hot surfaces.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.

Clothing or other flammable material should not be placed on or near the appliance.

Any screen or guard removed for servicing an appliance must be replaced prior to operating the appliance.

Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that the control compartments, burners and circulating air passageways of the appliance be kept clean.

**WARNING: Do not operate the appliance with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.**

**WARNING: Use only glass assembly, pt# 99-58605 which includes the glass panel, frame and gasket.**

# Specifications

**Testing Agency:** OMNI- Test Laboratories, Inc.

PO Box 301367  
Portland, OR 97294

**Listed:** Direct Vent Gas Heater

**Model:** CARINA - 8960

**Tested to:** ANSI Z21.88b – 2014/CSA 2.33b - 2014

Certified for Canada, CSA P.4.1

Approved for Mobile Home Installation

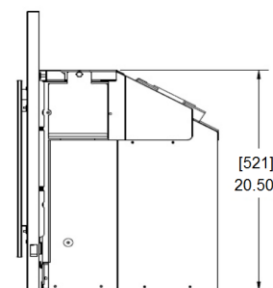
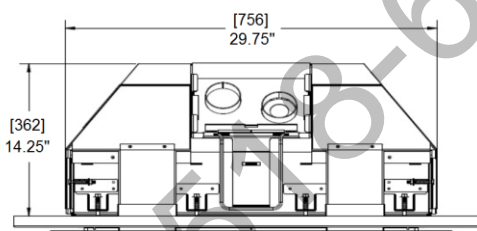
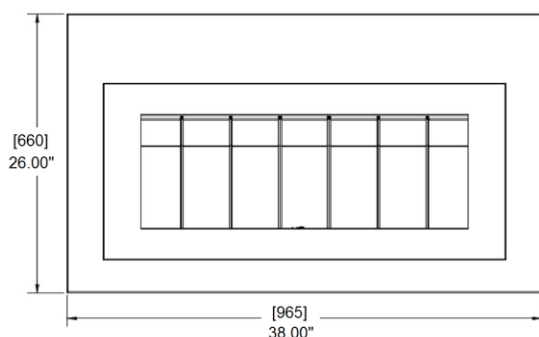
**Certified for use by:**

Board of State Examiners of Plumbers and Gasfitters  
100 Cambridge Street, Room 1511  
Boston, Massachusetts 02202

Manufactured and Warranted by:

**Hearthstone Quality Home Heating Products, Inc.**

317 Stafford Ave.  
Morrisville, VT 05661-8695, USA  
www.hearthstonestoves.com



**CARINA Dimensions**

Specification	NG	LP
Input rating (Btu/hr)	19,500	19,500
Orifice size DMS 0-2000 ft	46	55
Manifold pressure - HI (in.w.c./kPa)	3.4/1.0	10.0/2.5
Manifold pressure – LO (in.w.c./kPa)	1.6/.47	6.0/1.5
Minimum Supply Pressure (in.w.c./kPa)	5.5/1.4	11.0/2.8
Maximum Supply Pressure (in.w.c./kPa)	10.0/2.5	13.0/3.3
Minimum input rating (Btu/hr)	14,000	16,000
Maximum Observed Steady State Efficiency (%)	79.0	80.0
Steady State Efficiency (%)	63.06	65.6
Annual Fuel Utilization Efficiency (AFUE) (%)	61.63	64.3
Canadian P4 Efficiency (%)	59.8	58.8

It is recommended that the pilot flame be turned off if the appliance will not be in use for an extended period of time.

This appliance is equipped for use with the fuel type indicated on the rating plate.

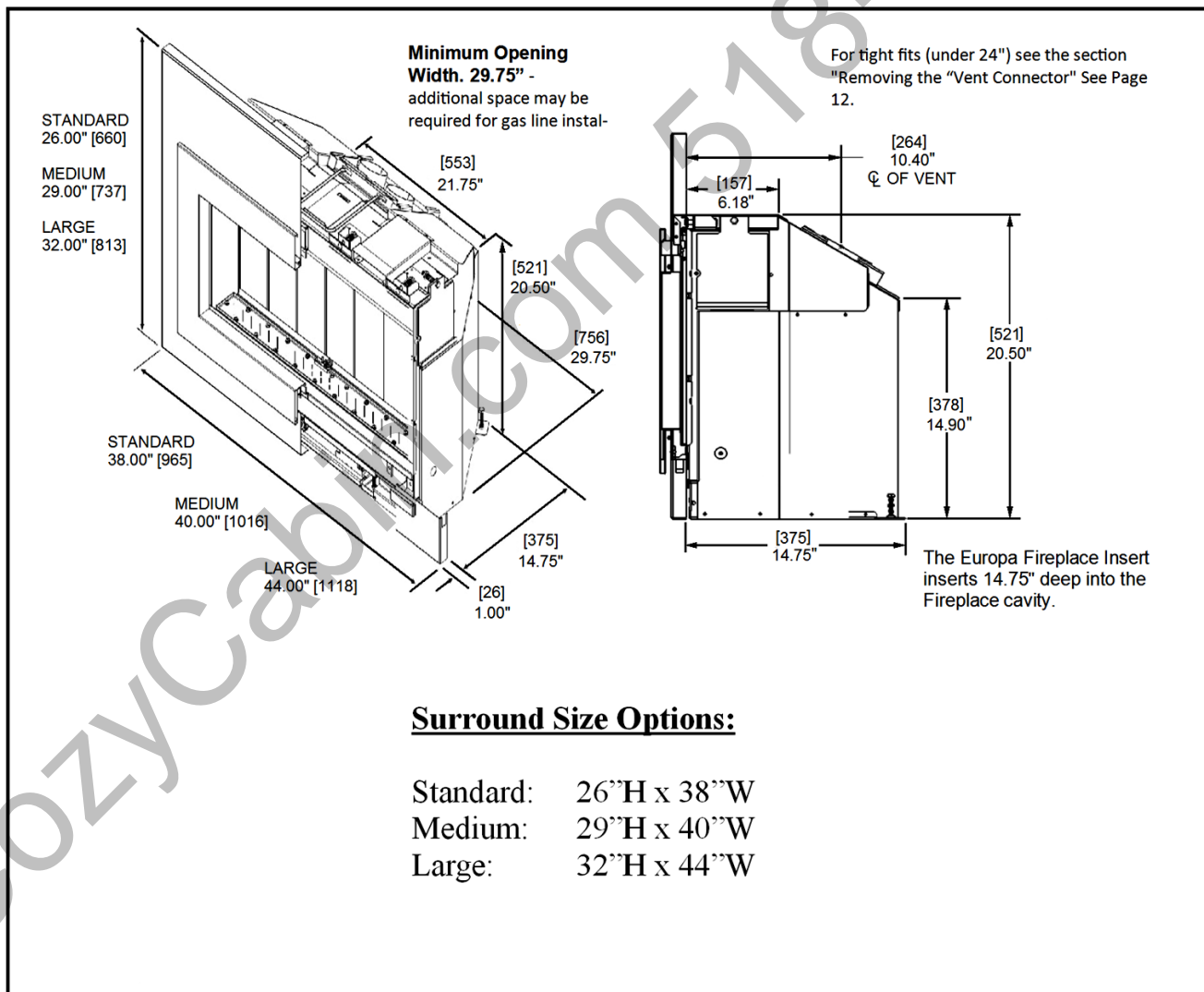
This appliance has been certified by OMNI-Test Laboratories, Inc. to CSA 2.33-2014 Vented Gas Fireplace Heaters and CAN/CGA-2.17-M91(R2009), Gas-Fired Appliances for Use At High Altitudes and CSA P.4.1-09.

The CARINA is approved for installation at elevations up to 2000 feet in the U.S. and 1370 meters (4500 feet) in Canada without change. If your installation is at an elevation greater than these, consult with the local authority having jurisdiction for gas product installations to determine their specific requirements for high altitude installations.

# Installation Requirements

## FIREPLACE REQUIREMENTS

- Insert must be placed within a code-conforming masonry fireplace or tested and listed factory-built (metal) wood-burning fireplace. Repair any fireplace damage prior to installation.
- Because the insert uses a circulation blower, clean the fireplace, smoke shelf, and chimney prior to installation.
- This heater may be placed in a bedroom. Please be aware of the large amount of heat this appliance produces when determining a location.
- Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that the control compartment, burners and circulating air passageways of the appliance be kept clean.





## Factory-Built (Metal) Wood-Burning Fireplace Requirements

**NOTE:** Any parts that are removed must be removed in a way that would allow them to be re-installed if the insert is ever removed (removal of rivets or screws is acceptable).

The damper ("A") and grate (with log set) ("B") must be removed (see the illustration below)

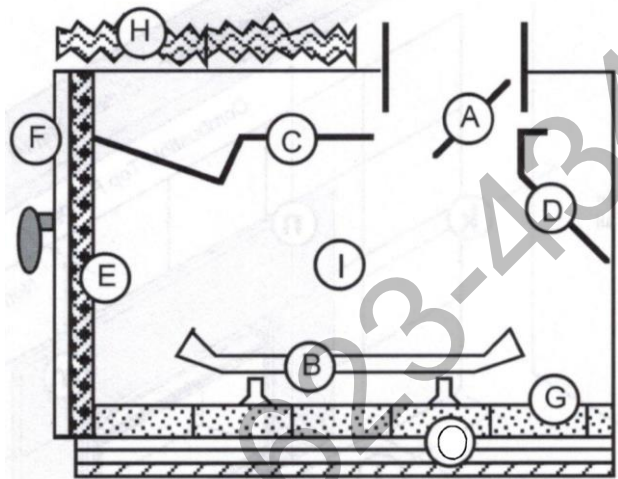
The smoke shelf ("C"), internal baffles ("D"), screen ("E"), masonry lining or refractory ("G" & "I"), and metal or glass doors ("F") may be removed if they are attached by mechanical fasteners (if applicable).

The fireplace must be permanently marked to indicate that it has been altered and is no longer suitable for burning solid fuel (wood), unless the removed parts are re-installed.

Cutting of any sheet metal parts is prohibited.

The insulation ("H"), and any structured rigid frame

members must not be removed or altered (side and top of door frame, side and top of the face of the fireplace, metal sides, etc.).



**Attach the "This fireplace has been altered" tag to the fireplace (use two screws or other suitable method). You may wish to place it in a location where it will be covered by the surround panel.**

\* Measured from the base of the insert.

### MINIMUM CLEARANCES

Due to the high temperature of the heater, it should be located out of traffic and away from furniture and draperies.

## Minimum Clearances

K	Sidewall to Insert	4-1/2"
I	Side Facing	4-1/2"
M	Top Facing	35" *
N	Mantel	35" *
F	To combustible Floor	1"
X	Extension onto Hearth	1"

### Mantel Clearances

The maximum mantel depth is 12".

**NOTE:** The combustible area above the facing must not protrude more than 3/4" from the facing. If it

## Hearth Requirements

The heater and face must not contact any combustible surfaces. A minimum 1" clearance to a combustible floor is required. A non-combustible hearth extension is not required. However, if the heater is installed close to the floor, we recommend a hearth to protect the flooring surface from discoloration or other negative impacts from the heater.

The gas fireplace is shipped with a 3/8" tube OD (male) connection. The gas supply piping should have a separate gas shutoff valve and a 1/8" NPT plugged tapping upstream of the valve. The stove and its main control 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 psi (3.5 kPa). The stove must be isolated from the gas supply piping system by closing the main control valve during any pressure testing of the gas supply system at test pressures equal to or greater than 1/2 psi (3.5 kPa). After the gas supply has been connected, use a commercial gas leak detector or apply a soapy water solution to all the fittings to check for gas leaks. Never use a flame to test for leaks.

### REQUIREMENTS FOR THE COMMONWEALTH OF MASSACHUSETTS

This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts. If this appliance is installed in a dwelling, building or structure used in whole or in part for residential purposes and the installation includes a horizontal vent termination that is less than seven (7) feet above the finished grade in the area of the venting, including but not limited to decks and porches, a hard-wired carbon monoxide detector with an alarm and battery back-up must be installed on the floor level of the dwelling, building or structure where the appliance is to be installed.

Additionally, a hard-wired or battery operated carbon monoxide detector with an alarm must be installed on each additional level of the dwelling, building or structure served by the appliance. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard-wired carbon monoxide detectors.

In the event that the horizontally vented appliance is installed in a crawl space or attic, the hardwired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

In the event that this requirement cannot be met at the time of completion of the installation of the appliance, the owner shall have a period of thirty (30) days to comply with the requirement. However, during said thirty (30) day period, a battery operated carbon monoxide detector with alarm must be installed.

Each carbon monoxide detector as required in accordance with the above provisions must comply with NFPA 720 and be ANSI/UL 2034 and IAS certified.

In addition when the vent termination is less than seven (7) feet above finished grade a metal or plastic identification plate must be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal. The sign shall read, in print size no less than one-half (1/2) inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

A COPY OF THESE INSTRUCTIONS PLUS ALL VENTING INSTRUCTIONS WHICH INCLUDE PARTS LISTS, AND/OR ALL VENTING DESIGN INSTRUCTIONS MUST REMAIN WITH THE STOVE AT THE COMPLETION OF THE INSTALLATION.

**ATTENTION INSTALLERS:** Mark below which venting system was used in the installation. These instructions must remain with the Orion Installation & Operation Manual.

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Simpson DuraVent GS/PRO® | <input type="checkbox"/> Selkirk Direct-Temp® | <input type="checkbox"/> Security Secure Vent™ |
| <input type="checkbox"/> AmeriVent Direct™        | <input type="checkbox"/> Metal Fab Direct     | <input type="checkbox"/> ICC Direct Vent       |



## Assembly and Installation

**WARNING:** Failure to position the parts in accordance with the diagrams shown on pages 9 thru 19 of this manual, or failure to use the parts specifically approved with the appliance may result in property damage, or personal injury.

### UNPACKING THE CARINA FIREPLACE INSERT

The fireplace components are shipped in two cartons. The crate contains the fireplace insert and the carton contains the surround you have selected. Start by opening the crate. Locate and remove the box containing the accessory items. The following items are packed in the accessory box:

- Installation and operating instructions
- Convection Air Ducts (x 2)
- Glass Media for burner
- Remote Control with batteries
- "Fireplace Altered" Tag
- Vent Restrictors (x 2)



Set these items to one side for use later in the installation process.

- 1) Remove the packaging materials from around the unit and unbolt the unit from the pallet.
- 2) Remove the Fireplace Insert from the pallet, and position it in front of the fireplace opening.
- 3) Finally, unpack the fireplace surround with screen from the second carton and set aside on a soft surface for later use.

## **Venting**

### **Preliminary steps to prepare for the installation of the CARINA Fireplace Insert**

- Remove the chimney cap if one exists so that the flue may be cleaned and the venting installed.
- Remove any existing hearth accessories such as glass doors, spark screens, andirons and grates.
- Clean the chimney thoroughly to remove ash, soot, and any obstructions, and then clean ash, soot, dust and debris from the fireplace.
- Chimney cleanouts must fit properly
- The damper must be locked open to allow the 2 x 3" venting to pass through. If it is necessary to modify the damper area to allow passage of the venting, the modifications should be allowed under local codes. Confirm any planned changes with local building officials.

### **Use Only Approved Venting**

Observe local codes when venting the CARINA Fireplace Insert.

Please consult the installation instructions supplied by the venting manufacturer you are using. Additional brand specific installation requirements may apply, follow the installation instructions included by the venting manufacturer with the venting system components you have chosen. **The venting manufacturer's installation instructions must be followed exactly.**

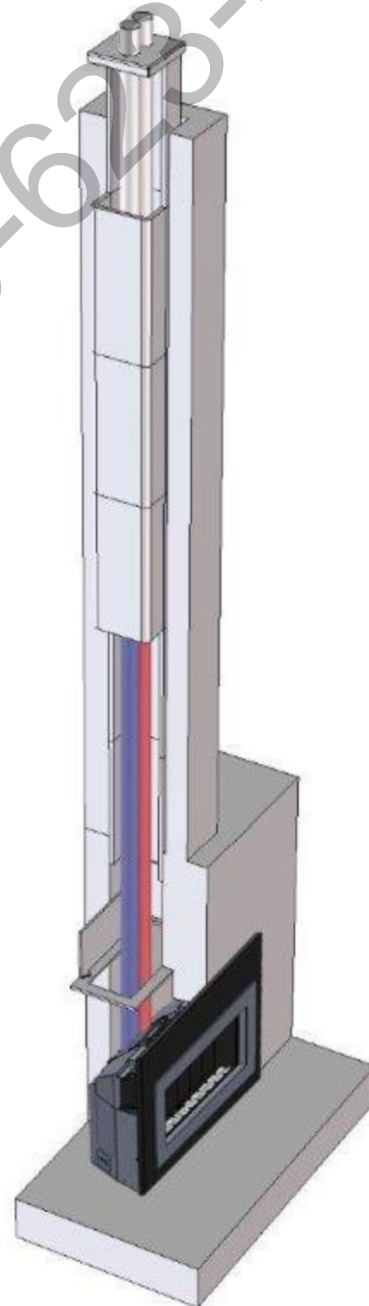
Do not connect the venting to the flue of a chimney that serves a separate solid fuel burning appliance.

The most efficient venting systems are those that have a minimum number of bends and minimal horizontal runs.

**WARNING:** Operation of this heater when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death.

**Exhaust restrictor plates must be installed depending on type of gas and chimney height. See Page 13 to determine restrictor requirements.**

**The fireplace and fireplace chimney must be clean and in good working order and constructed of non-combustible materials.**



### Use Only Approved Venting

This appliance has been tested and is listed for installation with Simpson Duravent Duraflex AL venting components. The warranty will be voided, and serious fire, health, or other safety hazards may result from any of the following actions:

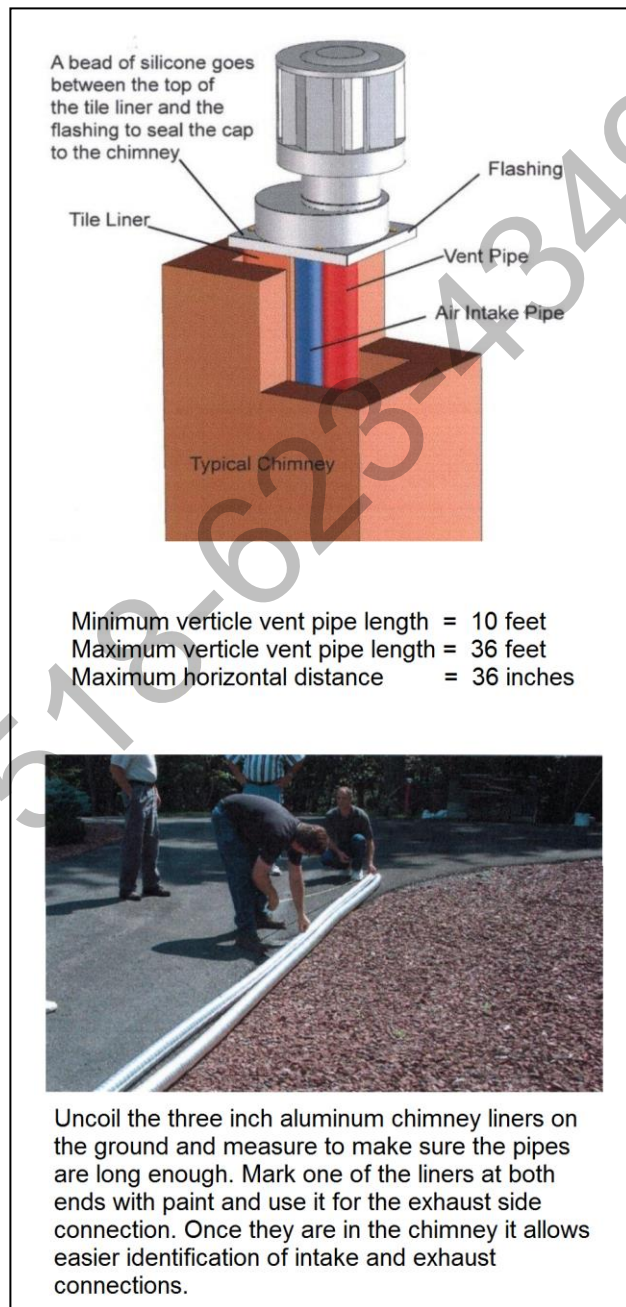
- Installation of any damaged Simpson Duravent component.
- Unauthorized modification of the Simpson Duravent System.
- Installation of any component part not manufactured or approved by Simpson Duravent.
- Installation other than as instructed by Simpson Duravent and the appliance manufacturer.

Consult your local building codes before beginning the installation, and follow the manufacturer's instructions exactly.

The Following Vertical Termination Caps are the only ones approved for use on this appliance:

- Simpson Duravent #46DVA-VC
- Selkirk Direct Temp 1604802
- Amerivent Direct 4DVC
- ICC ExcelDirect TM4VT

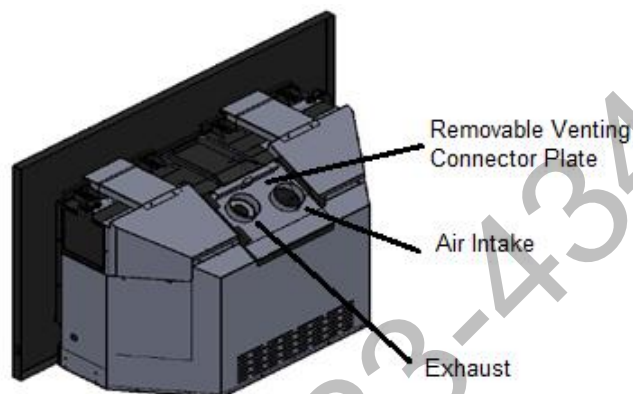
This unit is intended for Vertical Termination only. Horizontal Termination not allowed.



Feed chimney liners down the chimney and through the damper.



Position the CARINA Fireplace Insert in front of the fireplace opening to prepare for Installation.



The CARINA Fireplace Insert is equipped with a removable Venting Connector Plate. Remove this plate from the unit as follows:



Locate the Vent Connector Plate locking bar on the top of the unit



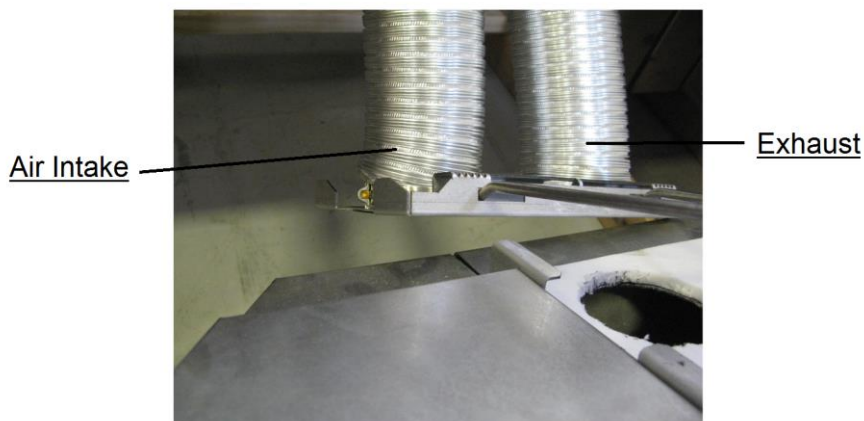
Lift up on the locking bar to release



Push bar towards the rear, sliding the Vent Connector Plate halfway down in its locating track. At this point it will be possible to remove the plate from the fireplace insert body by lifting the plate upwards

**Take care not to damage the sealing gasket affixed to the insert body.**

With the Vent Connector Plate separated from the unit, attach the flex liners you have dropped into the fireplace cavity to the plate using hose clamps, making sure that the Intake and Exhaust are connected to the correct collars. Remember the exhaust liner is the one that was marked with paint earlier.





## Vent Restrictors

Installations with extended vent runs may experience over-drafting and require the addition of a Vent Restrictor (E or F). The best indication of over-drafting is a hyper-active flame pattern (flames that move too quickly). Over-drafting may affect the pilot, causing it to lift off the flame sensing rod shutting off the unit.

Too much restriction will lead to ghosting or lifting flames - in this case less restriction is required.

The CARINA Fireplace Insert is supplied with two restrictor plates and provide restriction as follows:

No Restrictor Plate —No Restriction

Plate “E” 1.75” diameter—Maximum Restriction

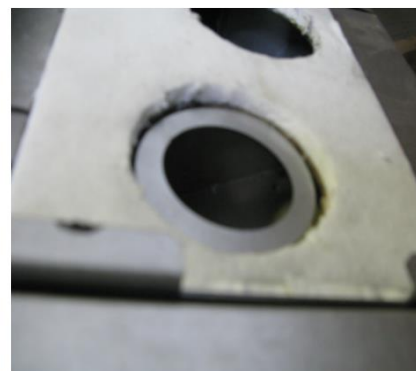
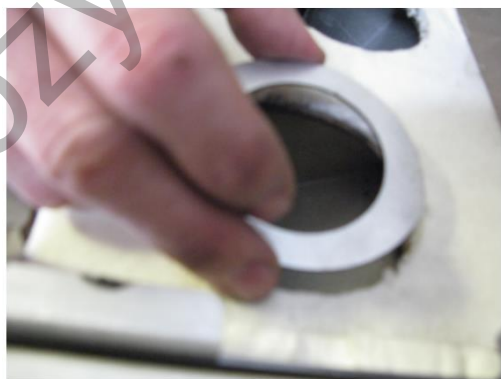
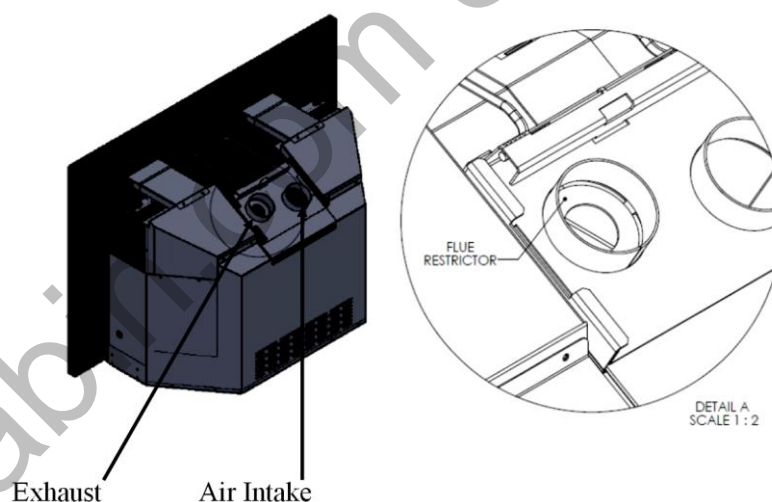
Plate “F” 2.00” diameter. —Minimum Restriction

Determine the flue restrictor needed for this application and install into the exhaust port on the insert body.

- Natural gas uses no restrictor from 10’ to 22’ and the 1.75”ID (E) restrictor from 22’ to 36’.

- Propane uses no restrictor for 10’ to 22’ and the 2.0” ID (F) for the 22’ to 36’ chimneys.

If you determine that a restrictor is required in your installation, place either the “E” or “F” restrictor into the exhaust port of the fireplace insert body PRIOR to reconnecting the Vent Connector Plate to the insert body as shown:



## **Electrical Wiring**

This fireplace insert requires 110V AC electrical supply for normal operation in order to power up the Ignition Control Module that is required to operate the Remote Control. However, during a power outage situation, its electronic system (Ignition Control) can temporarily be powered with 4 AA batteries. The convection blower will not function when the unit is operating on backup battery power.

### **WARNING**

Electrical connections should only be performed by a qualified, licensed electrician. Main power must be off when connecting to main electrical power supply or performing service.

All wiring shall be in compliance with all local, city, and state codes, or in the absence of local codes, with the National Electrical Code ANSI/NFPA 70 (latest edition) and Canadian Electrical Code, CSA C22.1.

### **Caution**

Label all wires before disconnecting when servicing controls. Wiring errors can cause improper and dangerous operation.

### **Warning**

Electrical Grounding Instructions. This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged into a properly grounded three prong receptacle. DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THIS PLUG.

**Always verify operation after servicing.**

## **Gas Connection.**

1. The gas line must be installed in accordance with all local codes, if any; if not, follow ANSI 223.1 and the requirements listed below.
2. Verify that the gas type is correct for the fireplace insert by looking at the rating plate that is attached to the control area of the appliance, adjacent to the control valve. Note: The fireplace insert is shipped from the factory equipped to burn the fuel listed on the rating plate. Fuel conversion in the field is not allowed.
3. The gas inlet is located on the bottom left side of the appliance. Connection should now be made from the gas supply line to the inlet flex connector on the fireplace. Use only a qualified gas installer to make the connection.
4. The fireplace is shipped from the factory with a 1/2" female flare fitting on the 3/8" flex connector.
5. The gas supply piping should have a separate gas shut-off valve and a 1/8 NPT plugged tapping upstream of the valve. We recommend installing a shut-off valve between the gas supply line where it penetrates the wall / fireplace the flex on the fireplace insert. This will allow gas to be shut-off to the fireplace by simply removing the fireplace surround to gain access to the shut-off valve.
6. The fireplace and its inlet regulator and main burner 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 psi (3.5kPa).
7. The fireplace must be isolated from the gas supply piping system by closing the gas shut-off valve during any pressure testing of the gas supply system at test pressures equal to or less than 1/2 psi (3.5kPa). After the gas supply has been connected, use a commercial gas leak detector or apply a soapy water solution to all the fittings to check for gas leaks. Never use a flame to test for leaks.

**If the factory built fireplace has no gas access hole(s) provided, an access hole of 1.5" (37.5mm) or less may be drilled through the lower sides, or bottom of the firebox in a proper workmanship like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed.**



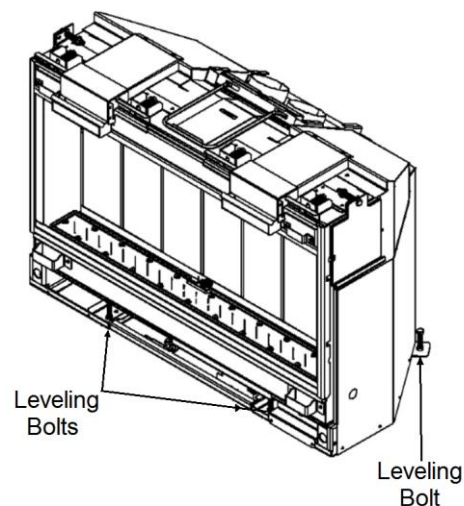
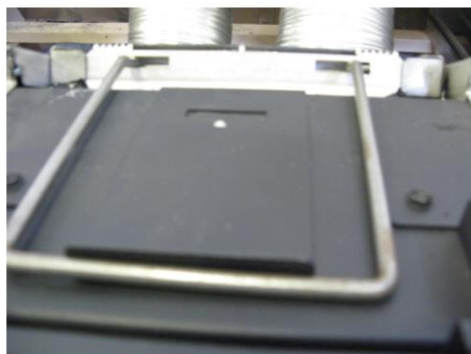
Once the gas connection and electrical hook up have been complete you can start to process of connecting the venting to the insert body, and pushing the insert into the fireplace cavity. Locate the Vent Connector Plate locking bar and pull it forward until you can align the plate with its locating track on the top of the insert body.

**Take care not to damage the sealing gasket affixed to the insert body.**

Pull the locking bar forward to fully engage the vent connector plate to the insert body.

Lock the bar over the front locking tab, making sure the vent connector plate is fully engaged in its track, and sealed to the insert body.

Push the fireplace insert fully into the fireplace cavity, and using the 4 leveling bolts on the unit, level the insert as necessary.



## Fuel Conversion

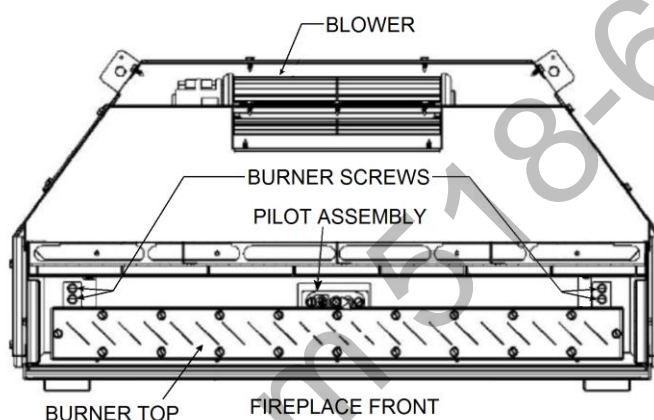
**This appliance ships from the factory configured for use with Natural Gas.** If use with Propane is desired, the unit is field convertible to Propane by using a fuel conversion kit.

**WARNING: Gas connections must be performed by a qualified service technician.**

PART #	DESCRIPTION	CONVERSION KIT CONTENTS		
99-56601	Carina Fuel Conversion Kit	#27 Pilot Orifice - 1ea.	#55 LP Burner Orifice - 1ea.	#8 Screw - 1ea.

**WARNING: Before servicing the appliance, shut off gas and electrical power to the unit.**

1. To access the burner, follow the screen and glass removal procedure shown on page 32.



**Location of the burner mounting screws.**

2. Using a 5/16" nut driver, remove the four (4) #10 burner mounting screws indicated in the image above.
3. Slide the burner to the right and lift up to remove.



4. Remove the two (2) #10 sheet metal screws holding the pilot assembly in place and carefully lift the assembly into the firebox.
5. Using a 10mm wrench, remove the pilot gas line to access the orifice.

**Pilot Orifice****Pilot Mechanism Re-assembled**

6. Remove the existing pilot orifice and replace with the #27 provided in this kit.
7. Reinstall and tighten the pilot gas line then reinstall the pilot assembly making sure the gasket is intact.
8. Remove the #8 screw holding the NG air collar to the burner tube and remove the collar. Reinstall the #8 screw in the burner tube (a replacement screw is included in this kit).

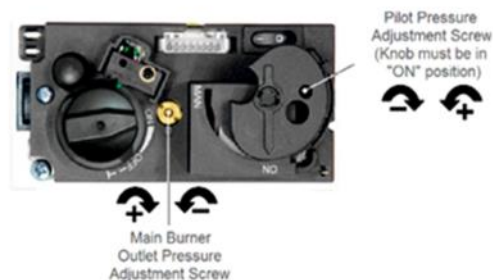
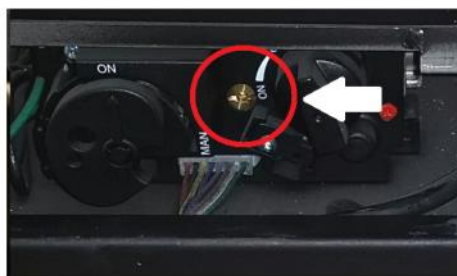
**NG Air Collar Installed****NG Air Collar Removed (Set for LP)**

9. Using a 9/16" deep socket, replace the burner orifice in the firebox with the #55 orifice included in this kit.
10. Reinstall the burner in the fireplace and tighten four (4) screws removed in step #2 above.
11. Locate the valve tray just under the center of the firebox front. Remove the two screws circled in the picture below and carefully slide the tray out until the entire valve is exposed.

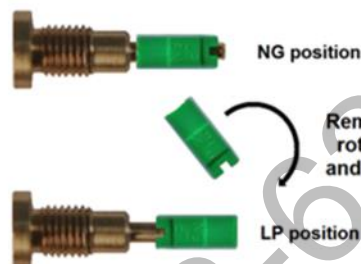
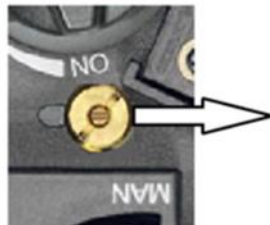
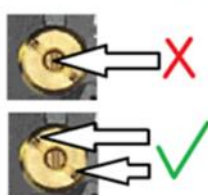


12. Using a flat tip screw driver, remove the fuel conversion screw from the valve, switch the plug to LP and reinstall as shown below.





Do not remove using small, center screw head. USE ONLY THE OUTER SLOTS.

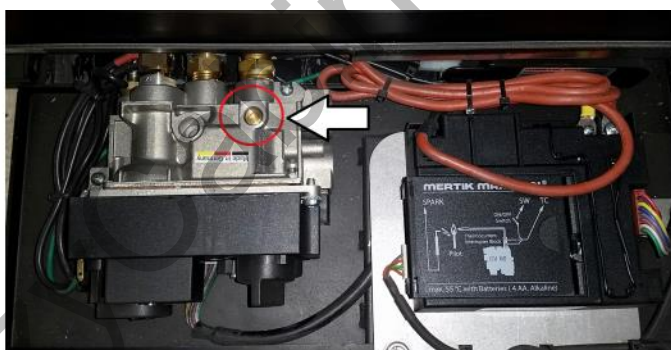


Remove Fuel Conversion Screw, slide plug off, flip, re-install plug and screw

## Gas Flow Adjustment

After completion of the fuel conversion, it is necessary to check the HI and LO pressures at the valve and may be necessary to adjust one or both.

1. Install a gas gauge (Manometer) on the outlet pressure tap on the valve.
2. Light the fireplace using the remote handset.
3. With the fireplace on HI, set the maximum pressure to **10.0" w.c. (2.5kPa)** by adjusting the small flat head screw in the center of the fuel conversion screw. Use only an appropriately sized jeweler's screwdriver. When complete, return the valve tray to original position and re-install screws.



Location of Low Pressure Adjust Screw (under the fireplace)

4. Quickly press the small flame button on the remote to set the fireplace to LO. Adjust the minimum rate to **6.00" w.c. (1.5kPa)** by turning the low pressure adjustment screw with a 4mm allen key as shown above.
5. When Hi and Lo pressure adjustments are complete, close the pressure tap(s) on the valve by turning the screws clockwise. Check all connections/pressure taps for leaks.

### **Placing the Burner Glass Media**

In order to place the glass media on the burner assembly, you will need to remove the glass front from the unit.

Glass Front removal:

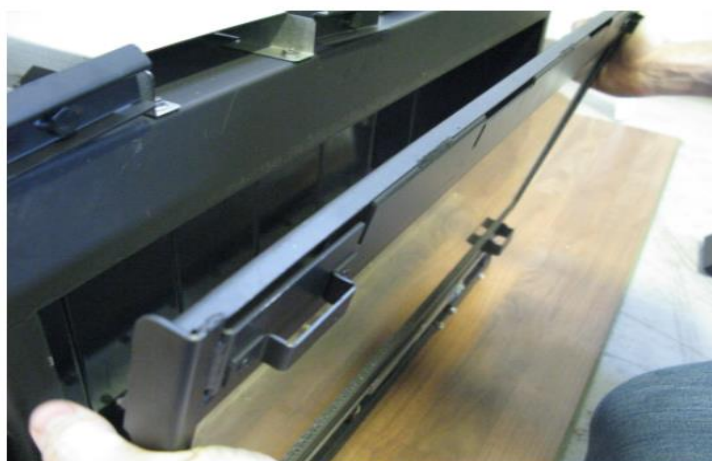
The glass front is retained by four springloaded glass retaining clips.



Pull each of these clips forward, rotating 180 degrees as you do so.



Once all four retaining clips have been released, the glass frame can be tipped forward and lifted out of the bottom retaining rail. The glass is retained in the frame with retaining tabs, so remove the glass and frame as a complete assembly. Place your thumbs on the outside of the glass frame and wrap your fingers around the frame and onto the glass. Squeeze the frame and glass while moving. Carefully lift the glass frame and glass up and off the fireplace. Set the glass and frame aside on a padded surface.



The burner glass media poly-bag that you set aside when you unpacked the fireplace contains the correct amount of glass material to cover the burner. The entire contents of the bag should be evenly distributed over the burner tray.

1. Locate the burner in the fireplace insert. Refer to the adjacent illustration.
2. Starting at one end, pour the glass media onto the burner tray, keeping the pouring spout on the poly-bag toward the center of the burner to avoid spillage of glass pieces over the sides of the burner. See the adjacent illustrations.
3. Once you have poured all of the glass burner media into the burner tray, carefully smooth the glass pieces out so they have a uniform depth over the entire surface of the burner. When the burner glass media is properly placed, it should look like the adjacent illustrations.
4. Note: If a few pieces of glass escape over the edges of the burner tray during installation, it is not a problem. They will simply land in the area below the burner and will do no harm.

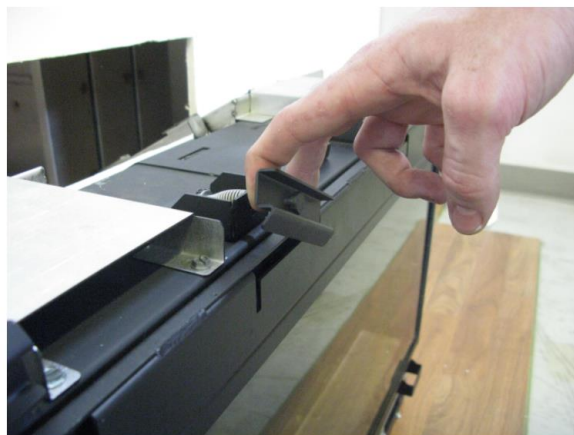


With the glass media in place, refit the front glass panel.

Carefully pick up the glass and glass frame assembly by grasping the sides of the frame and using your thumbs and fingers to hold the glass and frame as a complete assembly.

Place the bottom edge of the frame in its retaining track on the bottom of the firebox opening, centering the glass frame left to right in the track.

Then reengage the 4 spring loaded retaining clips, by pulling them forward and rotating them 180 degrees so that the bottom angled lip of each clip fully engages in its corresponding notch on the glass front.





### **Installing or Replacing the Batteries**

1. The valve control module is powered by four “AA” batteries. The batteries are mounted within the Valve Receiver Module located underneath the fireplace, behind the surround, attached to a slide-out mounting bracket for easy accessibility.
2. Loosen the thumb screw on the module slide-out mounting bracket by turning counter-clockwise until the threads are fully disengaged from the base bracket.
3. Rotate the Valve Receiver Module and mounting bracket. Toward you 90 degrees.
4. Slide off the Battery compartment cover.
5. Install the 4 “AA” batteries, supplied, using the guides inside the battery pack to show you the correct battery orientation.
6. Replace the battery compartment cover. Rotate the Valve Receiver Module and mounting bracket into its home position and tighten the thumb screw to secure.
7. The remote handset is powered by three “AAA” batteries. The access panel is located on the back of the handset and simply snaps open to provide access to the battery compartment. Install the three batteries as shown on the label inside the remote control battery compartment
8. Replace the remote handset access panel

### **Installing Convection Air Ducts:**

With the front glass panel fitted, you now need to install the two convection air ducts that were shipped in the accessory box with the fireplace insert.

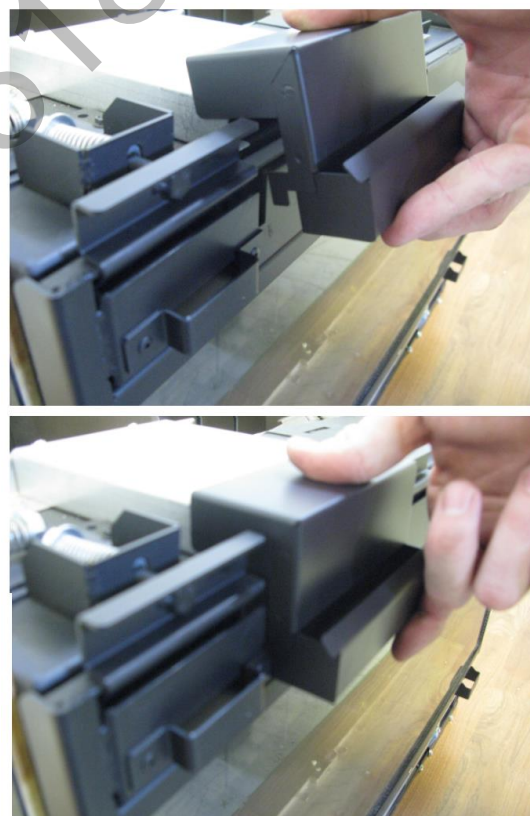
Align the top of the duct with the air channel on the top of the insert.

Insert the “keyed” tabs into the slots provided on the insert front frame, and seat in place.

Only trim kit(s) supplied by the manufacturer shall be used in the installation of this appliance.

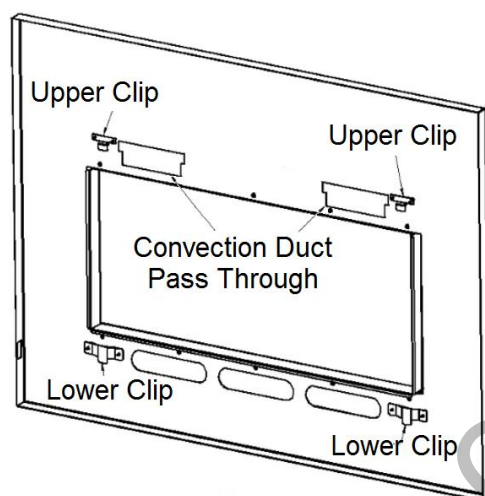
Draft relief openings must not be covered or blocked.

**Both Convection air ducts need to be in position before the Fireplace Surround with Integrated Screen can be installed**

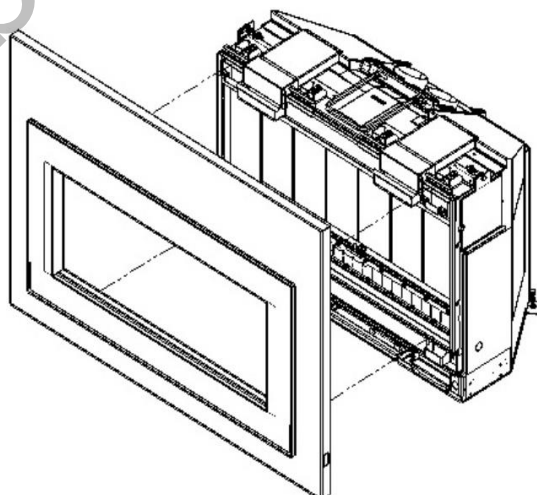
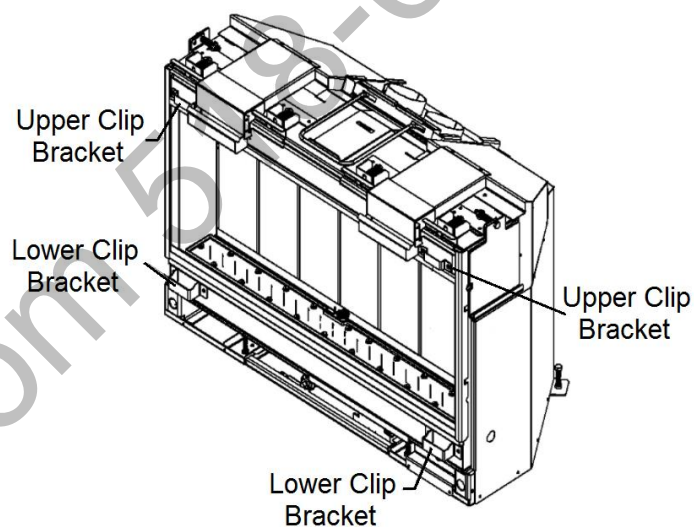


**Installing Front Face Surround with Integrated Screen:**

- Locate the On/Off switch connecting cable on the back side of the Front Face.
- Locate the connection point for the switch cable on the front of the fireplace insert. Plug the cable into the connection point on the unit
- Engage the hanging hooks on the back side of the front face surround with integrated screen on the hangers located on the top left and right side and bottom left and right side of the insert.



Rear View



# Lighting and Operation

## 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.**

When lighting this appliance, follow these instructions exactly:

- A. This appliance is equipped with an ignition device that automatically lights the pilot. Do not try to light the pilot by hand.
- B. **BEFORE OPERATING THE BURNER SYSTEM**, smell 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 the appliance.
  - 🔥 Do not touch any electric switch; do not use any telephone in your building.
  - 🔥 Immediately call your gas supplier from a neighbor's telephone. Follow the gas supplier's instructions
  - 🔥 If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to operate the gas controls. Never use tools. If a knob will not push in or 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 which has been under water.

## OPERATING INSTRUCTIONS


1. STOP! Read the safety information above on this label.
2. This appliance is equipped with an ignition device that automatically lights the pilot. Do not try to light the pilot by hand.
3. Using the Remote Handset, or the optional Wall Switch, push the "OFF" ⏻ button until you hear an audible signal to insure the appliance is Off.
4. Wait five (5) minutes to clear out any gas. Then smell for gas including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you don't smell gas, proceed to step 5.
5. Using either the Remote Handset, or the optional Wall Switch, simultaneously press the "ON" ⏻ and "High Flame" ⬆ buttons. An audible signal confirms the start sequence has begun.
6. Continuing beeps confirm the ignition is in process. Once lighting the pilot flame should appear as shown in Fig.2. Once the pilot is confirmed, the main burner ignites on high.

**NOTE: If the pilot does not stay lit after several tries, proceed to step 9.**

7. Use the flame height adjustment buttons on either the Remote Handset or the optional Wall Switch to adjust the flame. Press the ⬇ button twice to decrease the flame height to its lowest setting, press the button twice to increase flame height to the highest setting. Pressing the ⬆ or ⬇ button once will module the flame to intermediate settings. The Remote Handset can also be used to control the appliance thermostatically.

8. Press and hold the  button on the Remote Handset or optional Wall Switch to set the appliance to Pilot flame only.
9. If the appliance will not operate, follow the instructions "TO TURN OFF GAS TO THE APPLIANCE" and call your gas service technician or gas supplier.

### TO TURN OFF GAS TO THE APPLIANCE

1. To turn off gas to the appliance, push and release the  "OFF" button on either the Remote Handset or on the optional Wall Switch. You will hear an audible signal confirming the off setting.
2. TO TURN OFF THE GAS SUPPLY TO THE APPLIANCE, close the shut-off valve on the gas supply line to the appliance.

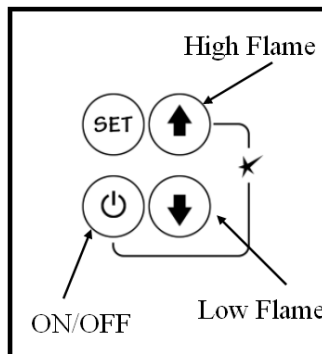


FIG. 1

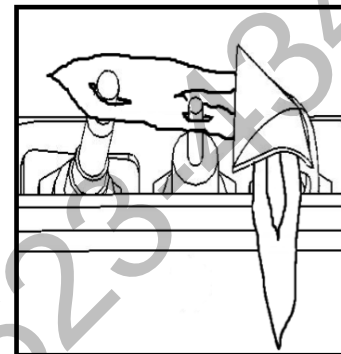


FIG. 2

### OPERATING YOUR FIREPLACE FOR THE FIRST TIME

When operating your new fireplace for the first time, some vapors may be released due to the burning of curing compounds used in the manufacture of the appliance. They may cause a slight odor and could cause the flames to be the full height of the firebox, or even slightly higher, for the first few hours of operation.

It is also possible that these vapors could set off any smoke detection alarms in the immediate vicinity. These vapors are quite normal on new appliances. We recommend opening a window to vent the room. After a few hours use, the vapors will have disappeared and the flames will be at their normal height.

### FLAME SUPERVISION DEVICE

For your safety, this appliance is fitted with a flame supervision device which will shut-off the gas supply if, for any reason, the pilot flame goes out. This device incorporates a fixed probe, which senses the heat from the pilot flame. If the probe is cool, the device will prevent any gas flow unless manually lighting the pilot. See full lighting instructions. Periodically check the pilot flame and compare to figure 2 above.

### LIGHTING, OPERATION AND RATING INFORMATION

The Lighting, Operation and Rating information is located on a plate under the firebox.

To access the plate, remove any fret or access panel and grab the plate and slide it out to read it. There is important information on both sides of the plate.

## WARNING

**DO NOT ATTEMPT TO TOUCH THE DATA PLATE WHILE THE FIREPLACE IS STILL HOT!**  
Let the fireplace cool first before touching it.

### SERVICING

If any attention is required for your appliance, contact your dealer quoting the model number. It will be helpful if the appliance's serial number can also be quoted. This number is on the rating plate, which is located under the burner. The replacement parts are shown at the end of this manual. Please always quote the part number and description when requesting spare parts.

## FIREPLACE CONTROL DEVICES

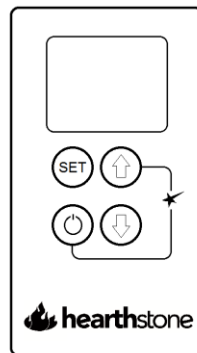
There are two ways to control your fireplace.

1. Thermostatic Remote Control
2. Optional Wall Switch

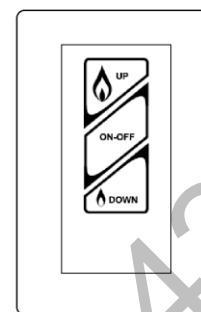
The Thermostatic Remote Control can be programmed to function automatically—see pages 28-31.

The Wall Switch (optional) can be used to turn on, off and to increase or decrease the flame height.

**NOTE: The remote control in the AUTO mode will override the optional wall switch.**



Programmable Thermostatic Remote Control



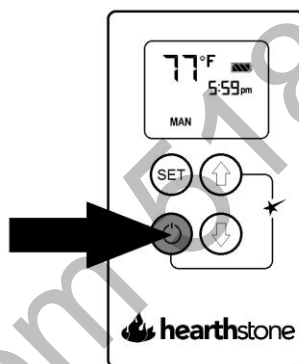
Optional Wall Switch

## HOW TO TURN YOUR FIREPLACE OFF (INCLUDING PILOT)

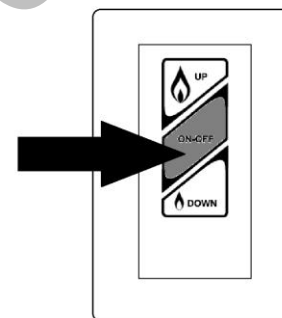
Familiarize yourself with each of these methods before operating your fireplace.

**Handset and Wall Switch:** Press and hold the OFF button for a second (either on the handset or the wall switch).

If the flames are on, they go down and you hear the valve motor wind down. You hear a clunk and a beep indicating that the valve has received the signal from the remote control.



Programmable Thermostatic Remote Control



Optional Wall Switch

## HOW TO ENSURE YOUR FIREPLACE CANNOT BE TURNED ON INADVERTENTLY

You can use the following method to ensure that your fireplace will not turn on when you don't want it on.

**First, ensure your fireplace is turned off—including the pilot—and cold BEFORE going ahead.**

- Close the shut-off valve on the gas supply line to the appliance.
- Remove all batteries from the receiver as well as the battery from the handset.

### Automatic Shut-Off (in certain conditions)

Your fireplace's remote control is equipped with an automatic shut-off mechanism which is activated in certain conditions. See page 31 in the *Remote Control Operation* section for a description of this feature.

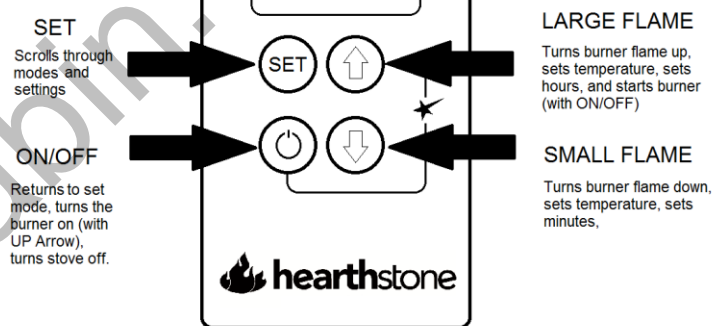
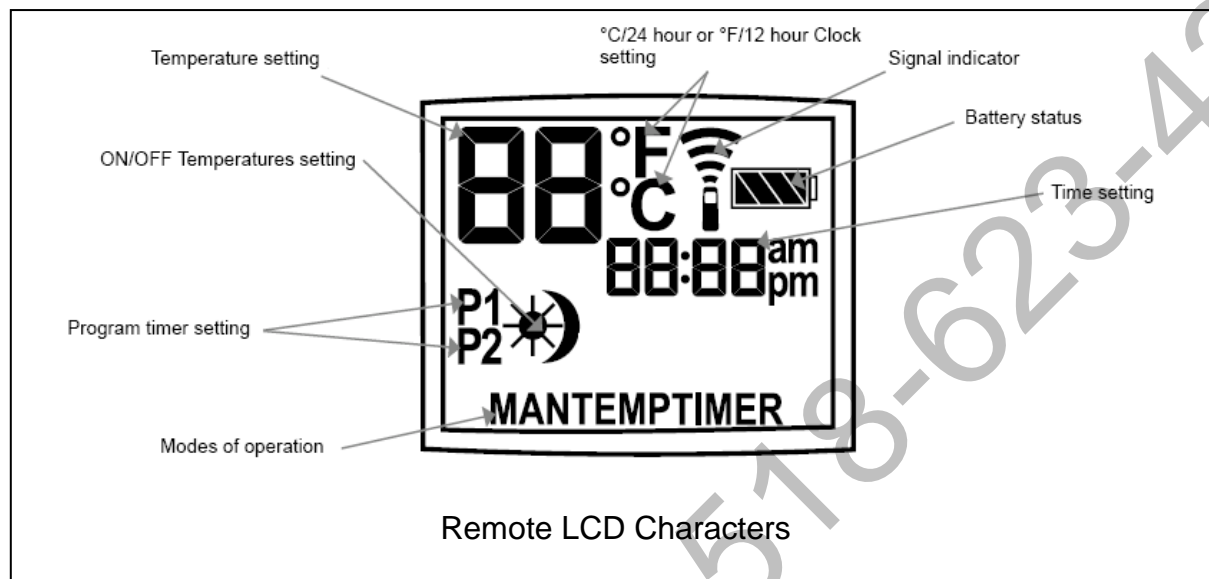
**NOTE: Before using the remote control system for the first time,** the receiver and the handset are synchronized at the factory. See the *Synchronizing the Remote and Valve Receiver Module* section under *Maintenance* on page 33 of this manual if the receiver and handset lose synchronization.

**IMPORTANT: BEFORE YOU BEGIN,** please note that on this system, the settings of time, temperature and automatic ON/OFF **can only be programmed when the function display is flashing.** Be patient when programming as it can take a few seconds to set.



# Maxitrol Control System

## Remote Control Layout



Handset Overview

Note: In the TEMP or TIMER modes, the remote handset senses the room temperature and adjusts the flame accordingly.

To communicate, the handset should be within 15 feet (4.5 meters) of the fireplace.

**Do not leave the handset on the hearth, mantel, or on top of the fireplace.**




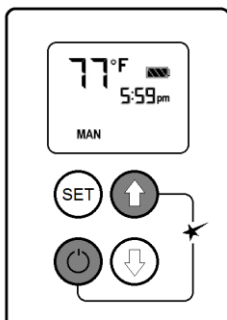
## BASIC REMOTE COMMANDS


### TO TURN ON THE APPLIANCE

#### CAUTION

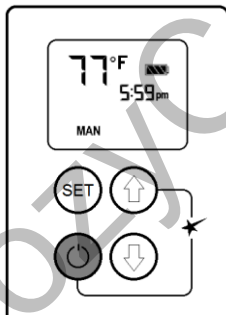
When pilot ignition is confirmed, motor turns automatically to maximum flame height.

- On the valve, turn MAN knob on the ON, full counterclockwise  position.



- Simultaneously press the OFF and  (large flame) buttons until a short beep confirms the start sequence has begun; release buttons.
- Continuing beeps confirm the ignition is in process.
- Once pilot ignition is confirmed, there is main gas flow.
- After main burner ignition the handset will automatically go into manual (MAN) control mode.

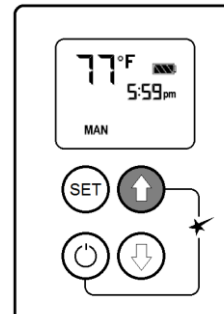
### TO TURN OFF THE APPLIANCE




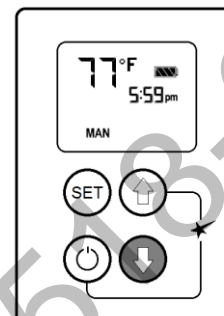
- Press OFF button.




When the pilot is off, it will take 2 minutes before it can be lit again.

## FLAME HEIGHT ADJUSTMENT

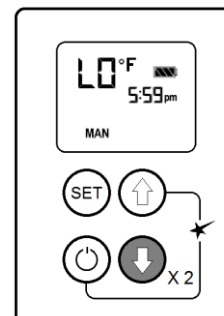



- In standby mode: Press and hold  (large flame) button to increase flame height.

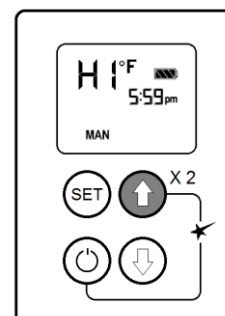



- Press and hold  (small flame) button to decrease flame height or to set the appliance at pilot flame.
- For fine adjustment tap the  (large flame) or  (small flame) buttons.

## Express LO and HI Fire

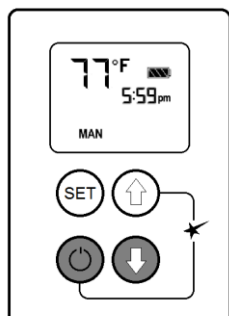


- Double-click  (small flame) button. "LO" will be displayed. NOTE: Flame goes to high fire first before going to designated low fire.



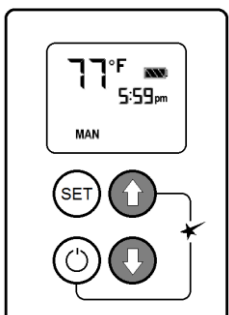
- Double-click  (large flame) button. Flame automatically goes to high fire. "HI" will be displayed.

## SETTING C/24 HOUR OF F/12 HOUR



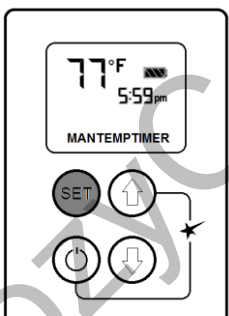
- In MAN mode, press OFF and (small flame) buttons until display changes from Fahrenheit/12-hour clock to Celsius/24-hour clock and vice versa.

## SETTING THE TIME

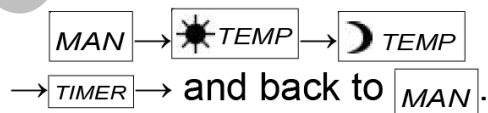


- The time display will flash after either:  
Installing the battery or simultaneously pressing the (large flame) and (small flame) buttons
- Press (large flame) button to set the hour.
- Press (small flame) button to set the minute.
- Press OFF or simply wait to return to MAN mode.

## MODES OF OPERATION

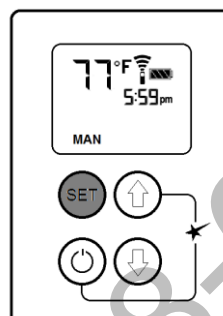


- Briefly pressing the SET button changes the mode of operation in the following order:



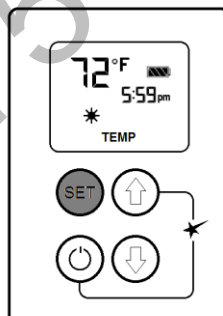
**NOTE:** Manual mode can also be reached by pressing either the (large flame) or the (small flame) buttons. **Whatever mode the remote is left in (MAN, TEMP, TIMER) is the mode the appliance will operate in until the mode is manually changed.**

## MANUAL MODE



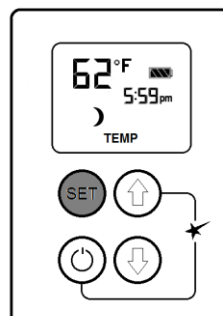
- In MAN mode, flame height is controlled by the up and down arrows. HO and LO commands function but otherwise is a “more or less flame” mode only.

## DAYTIME TEMP MODE



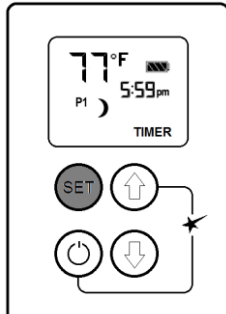
- (Appliance must be in standby mode; pilot ignited) - The room temperature is measured and compared to the set temperature. The flame height is then automatically adjusted to achieve the Daytime Set Temperature.

## NIGHTTIME SETBACK TEMP MODE



- (Appliance must be in standby mode; pilot ignited) - The room temperature is measured and compared to the set temperature. The flame height is then automatically adjusted to achieve the Nighttime Setback Temperature.

## TIMER MODE

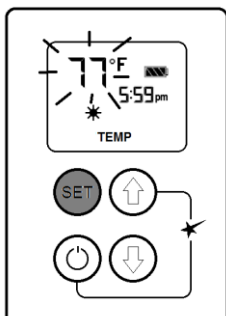


(Appliance must be in standby mode; pilot ignited)  
The timers P1 and P2 (Program 1, Program 2) each can be programmed to go ON and OFF at specific times. For instructions see Timer Programming Mode.

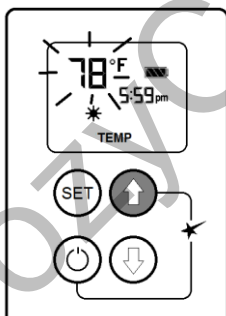
**NOTE:** The display shows the set temperature every 30 seconds.

## SETTING ON/OFF TEMPERATURES

### SETTING THE “DAYTIME” TEMPERATURE

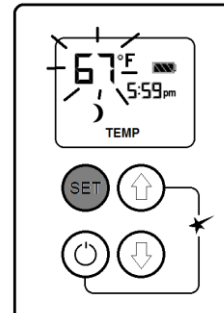


- Briefly press SET button to scroll to TEMP (sun) mode. Once there, hold the SET button down until the TEMP flashes.

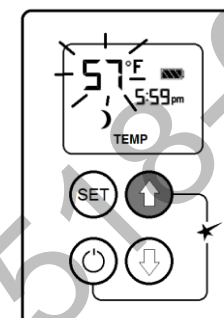


- Press (large flame) button to increase the Daytime Set Temperature or press (small flame) button to decrease Daytime Set Temperature.
- When finished, press OFF or wait for remote to re-set.

## SETTING “NIGHTTIME SETBACK” TEMPERATURE



- Briefly press SET button to scroll to TEMP (moon) mode. Once there, hold the SET button until the TEMP flashes.



- Press (large flame) button to increase the Nighttime Set back Temperature or press (small flame) button to decrease Nighttime Setback Temperature.
- When finished, press OFF or wait for remote to re-set.

### Tip

Set the different parameters only when they are flashing. For the Nighttime setback mode, pressing the down arrow until the LCD reads “- -” turns the Nighttime Setback Temp feature off.














## SETTING PROGRAM TIMERS

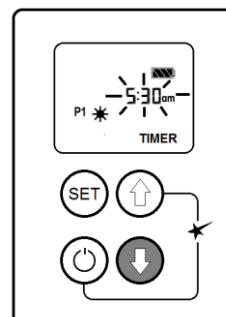
Program timer mode allows the user to program a set time of day during which the appliance will operate to maintain a preset temperature (the Daytime Temp set above). When the appliance is not operating within this programmed time, it will revert to the Nighttime Setback Temp as programmed above.


### Default settings:

Program 1: <b>P1</b>	6:00 am	<b>P1</b>	8:00 am
Program 2: <b>P2</b>	11:50 pm	<b>P2</b>	11:50 pm

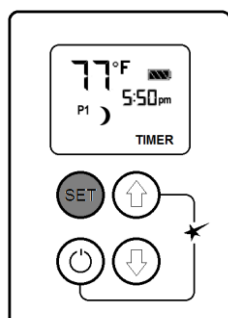
### Additional Information:

- 2 ON times can be programmed  per day.
- C/24hr. mode: The day starts at 0:00, ends at 23:50.
- F/12hr. mode: The day starts at 12:00<sup>am</sup>, ends at 11:50<sup>pm</sup>.
- The ON/OFF times have to be programmed in the order  $P1 \text{  } \leq P1 \text{  } < P2 \text{  } \leq P2 \text{  }$ .
- If  $P1 \text{  } = P1 \text{  }$  or  $P2 \text{  } = P2 \text{  }$  the timer is deactivated.
- To have the fire over night, it can be set:  
C/24hr. mode:  $P2 \text{  } 23:50$  and  $P1 \text{  } 0:00$   
F/12hr. mode:  $P2 \text{  } 11:50^{\text{am}}$  and  $P1 \text{  } 12:00^{\text{am}}$

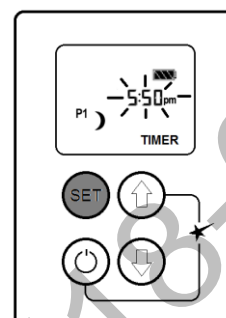


- Press the small flame arrow  to set the minute.

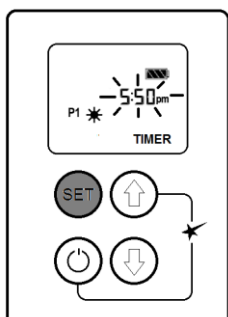
### Setting P1 On Time:



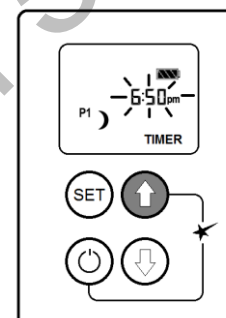
- Briefly press SET button to scroll to TIMER mode. P1 and the moon icon will also appear on the screen.




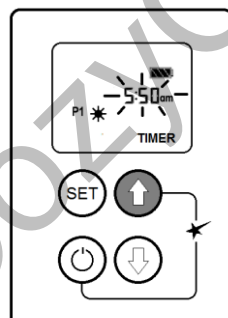
- Briefly press SET button to scroll to TIMER P1 mode (moon) while the time is still flashing.




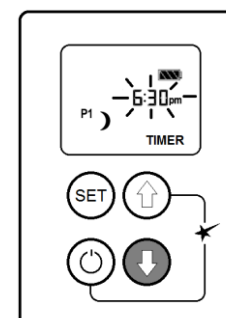
- Once there, hold the SET button down until the time of day flashes.




- Press the large flame arrow  to set the hour.




- Press the large flame arrow  to set the hour.



- Press the small flame arrow  to set the minute.

### Setting P2 On Time

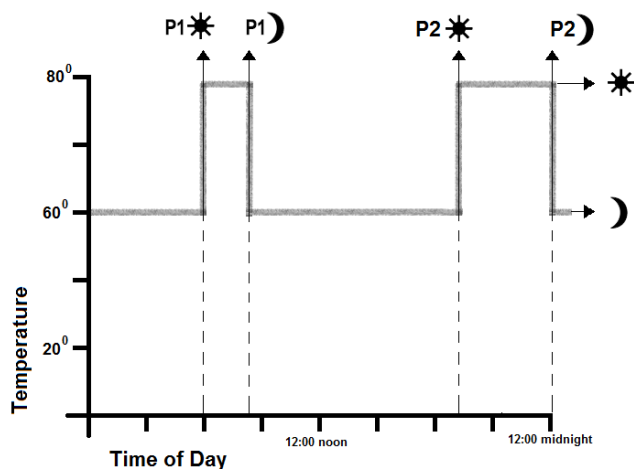
- While the time of day is still flashing, briefly press SET to scroll to TIMER mode **P2**  (sun).

- Follow the instructions given to set P1 ON time.

### Setting P2 Off Time

- While the time of day is still flashing, briefly press SET to scroll to TIMER mode **P2** (moon).
- Follow the instructions given to set P1 OFF time.

### Programming Example:



Appliance set to the following conditions will:

Increase temperature to 78 degrees from 6am to 8:45am each day, then return to 60 degrees until 7:30pm, at which time it will increase to 78 degrees until 12:00am, when it will return to 60 degrees and modulate there until 6:00am the following morning.

☀ Daytime temp set to 78°

☾ Nighttime temp set to 60°

P1☀ Program 1 daytime timer set to 6:00am

P1☾ Program 1 nighttime timer set to 8:45am

P2☀ Program 2 daytime timer set to 7:30pm

P2☾ Program 2 nighttime timer set to 12:00am

### Tip

If you want to program only one period, program **P1** day and **P1** night with desired times and program **P2** day and **P2** night with the same time.

### AUTOMATIC TURNDOWN

- No communication.** If there is no communication between the receiver and the

handset for a period of 6 hours, the appliance goes into pilot mode.

- No change in flame height.** If there is no change in flame height for a period of 6 hours, the appliance goes into pilot mode.

**NOTE:** In **TEMP** or **TIMER** modes, the flame height will vary according to room temperature. The appliance will continue to work normally. However, if the room temperature remains the same for 6 hours, the appliance will go into pilot mode.

### AUTOMATIC SHUT OFF

- Low batteries in the receiver.** With low battery power in the receiver the system shuts off completely.


**NOTE:** This does not apply when the power supply is interrupted.

- No change in pilot.** The appliance shuts off completely when it is continually in pilot position— without any change—for a period of 5 days.

### LOW BATTERY INDICATION

#### CAUTION

**DO NOT USE** a screwdriver or other metallic object to remove the batteries from the battery box or the handset! This could cause a short circuit.

- Remote handset:** The battery icon  will show when the battery needs to be replaced. Replace with one 3 “AAA” **alkaline** batteries.
- Receiver:** Three short ‘beeps’ will sound when the motor turns when the batteries need to be replaced. Replace with four 1.5 V **alkaline** batteries.
- HANDSET / RECEIVER MATCH**  
The remote control handset and receiver are program- med to function together. In case of a replacement of the handset or the receiver, you will need to reset the receiver to allow them to function together. Contact your dealer for details.

# Maintenance

A qualified service agency should conduct an annual inspection and maintenance of your CARINA including the overall installation and venting to keep it running safely. The following procedures should be performed only by a qualified service person. The gas supply should be turned off and the stove should be completely cool whenever a maintenance procedure is performed. All parts of the appliance that are removed for servicing must be replaced prior to operation.

**WARNING:** Do not operate the appliance with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

**WARNING:** Use only glass assembly, pt# 99-58605 which includes the glass panel, frame and gasket. Do not use substitute materials. Do not strike or slam the glass front. The appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.

## REPLACING THE GLASS

The glass mounting system consists of the glass panel, special glass gasket and the metal glass frame. Should the glass need to be replaced, you must replace the entire glass/glass frame pt# 99-58605. See page 37 for information on obtaining replacement parts. Use the following procedure and refer to the illustrations on page 16 of this manual.

1. Turn the fireplace completely off and allow it to cool to room temperature.
2. Remove the fireplace surround. See instructions on page 19.
3. If the glass is broken, be sure to wear gloves and eye protection.
4. Remove the glass frame fasteners from the top edge of the glass frame.
5. This will allow the glass frame to tip slightly forward. The glass may be loose in the frame, so it is very important to support both the glass and the frame when handling. Place your thumbs on the outside of the glass frame and wrap your fingers around the frame and onto the glass. Squeeze the frame and glass while moving. Carefully lift the glass frame and glass up and off the fireplace. Set the glass and frame aside on a padded surface. If the glass is broken, do this over spread out newspaper to catch all loose material. Wrap the old glass frame, glass and gasket in several layers of newspaper and discard.

## Installing the replacement glass/glass frame assembly.

1. Unpack the new glass/glass frame assembly taking care when handling.
2. Carefully pick up the glass and glass frame assembly by grasping the sides of the frame and using your thumbs and fingers to hold the glass in place within the gasket and frame.
3. With the glass frame (and glass) at a slight angle (leaving room for your fingers between the frame and the firebox) insert the bottom edge of the frame into the frame retainer located on the bottom front of the firebox. Take care to center the frame from left to right. Once the bottom edge is in place, move your fingers out of the way and press the top of the frame against the firebox while pushing down to be sure the frame is fully engaged in the frame retainer. Hold the frame in place with one hand and reinstall the glass frame fasteners, leaving them loose.
4. Tighten the glass frame fasteners in stages working from the center out. Continue the process until all fasteners are uniformly tight. Do not over-tighten the fasteners.
5. Replace the fireplace surround. See instructions on page 19.



## **Cleaning the Glass**

**WARNING:** Never clean the glass while it is hot. Do not use abrasive cleaners or cleaners containing ammonia.

**NOTE:** A micro-fiber cleaning cloth and plain water is recommended by the glass manufacturer.

## **Inspecting the Venting**

An inspection of both the inner and outer vent pipes and the vent terminal should be made as part of the annual service appointment. The venting must have no blockage and be in good repair. The vent manufacturer's instructions may provide specific details on vent inspection. Any vent sections that are disassembled must be reassembled and sealed as required.

***Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the appliance.***

**This appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive dust or lint from carpeting, bedding materials, pets, etc. It is imperative that control compartments and circulating air passageways of this appliance be kept clean.**

## **Cleaning the Burner and Firebox**

During the annual inspection and maintenance appointment, the service person should clean the burner and firebox. To gain access to the firebox and burner, follow the instructions beginning on pages 16-19 of this manual.

**DO NOT USE A VACUUM CLEANER TO CLEAN THE GLASS BURNER MEDIA.**

A vacuum cleaner may be used to clean the metal parts of the firebox. Leave the glass burner media in place. Use a soft brush to clean the burner glass media. If the burner media does need to be removed, carefully scoop it off the burner and avoid dropping glass pieces in the air gaps around the burner. Follow the instructions on page 17 of this manual when replacing the burner media on the burner top.

## **Air Flow**

The CARINA utilizes a convection air heat exchange system to maximize heat delivered from the fireplace. It is important that air flows freely through the convection air system and out the top and side air grills. Do not place objects under the fireplace that will block the convection air inlet flow or in front of any air outlet.

## **Synchronizing the Remote and Valve Receiver Module**

A code is selected automatically for all Mertik Maxitrol electronics from among 65,000 random codes available. The receiver must learn the code of the handset, which is performed at the factory. If for any reason your appliance stops responding to remote commands, it may be necessary to re-sync the two components. To access the Valve Receiver Module, follow the instructions on pages 18-19. Once you have access to the Receiver,

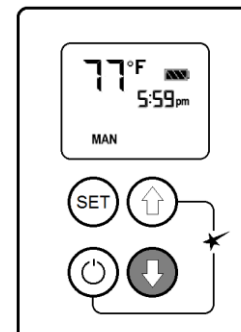
press and hold the receiver's reset button (see figure below) until you hear two (2) beeps. The first beep is short and the second beep is long. After the second beep, release the reset button. Within 20 seconds press the Small Flame button on the handset until you hear two additional short beeps confirming the code is set. If you hear one long beep, this indicates the code has failed or the wiring is incorrect.



**Step 1: Locate Reset Button on Receiver**



**Step 2: Press and hold Reset button until second beep is finished**



**Step 3: Within 20 seconds, press Small Flame button on the remote**

## Maintenance Log

We strongly recommend that you keep a log of the regular maintenance that is performed on your fireplace. We have provided the forms below to make it easy. Simply ask your qualified service person to fill out one of the maintenance record forms below, each time the fireplace is serviced. This will help insure that all of the required maintenance procedures have been completed, at least annually. Regular maintenance will help keep the fireplace functioning in a safe and reliable manner. Additional forms are available from your installer or service person when needed.

Date of Service _____ Serviced By _____
<u>Service Performed</u>
<input type="checkbox"/> Inspect Venting
<input type="checkbox"/> Clean Burner & Firebox
<input type="checkbox"/> Clean Control Area
<input type="checkbox"/> Clean Convection Air System
<input type="checkbox"/> Leak Test Gas Connections
<input type="checkbox"/> Other _____

Date of Service _____ Serviced By _____
<u>Service Performed</u>
<input type="checkbox"/> Inspect Venting
<input type="checkbox"/> Clean Burner & Firebox
<input type="checkbox"/> Clean Control Area
<input type="checkbox"/> Clean Convection Air System
<input type="checkbox"/> Leak Test Gas Connections
<input type="checkbox"/> Other _____

Date of Service _____ Serviced By _____
<u>Service Performed</u>
<input type="checkbox"/> Inspect Venting
<input type="checkbox"/> Clean Burner & Firebox
<input type="checkbox"/> Clean Control Area
<input type="checkbox"/> Clean Convection Air System
<input type="checkbox"/> Leak Test Gas Connections
<input type="checkbox"/> Other _____

Date of Service _____ Serviced By _____
<u>Service Performed</u>
<input type="checkbox"/> Inspect Venting
<input type="checkbox"/> Clean Burner & Firebox
<input type="checkbox"/> Clean Control Area
<input type="checkbox"/> Clean Convection Air System
<input type="checkbox"/> Leak Test Gas Connections
<input type="checkbox"/> Other _____

Date of Service _____ Serviced By _____
<u>Service Performed</u>
<input type="checkbox"/> Inspect Venting
<input type="checkbox"/> Clean Burner & Firebox
<input type="checkbox"/> Clean Control Area
<input type="checkbox"/> Clean Convection Air System
<input type="checkbox"/> Leak Test Gas Connections
<input type="checkbox"/> Other _____

Date of Service _____ Serviced By _____
<u>Service Performed</u>
<input type="checkbox"/> Inspect Venting
<input type="checkbox"/> Clean Burner & Firebox
<input type="checkbox"/> Clean Control Area
<input type="checkbox"/> Clean Convection Air System
<input type="checkbox"/> Leak Test Gas Connections
<input type="checkbox"/> Other _____

## Installation Record

The installer should complete the form below that describes the details of the installation. Having this written record of installation information available will greatly expedite trouble-shooting should any problem arise with your stove. The installer should keep a duplicate of this form for their records.

DATE PURCHASED:			
DEALER:			
INSTALLER:			
FIREPLACE S/N:			
DATE INSTALLED:			

FUEL:	NAT. GAS	LP GAS
-------	----------	--------

INLET PRESSURE MEASURED AFTER INSTALLATION:		IN. WC
MANIFOLD PRESSURE MEASURED AFTER INSTALLATION:		
HIGH FIRE:		IN. WC
LOW FIRE:		IN. WC

**VENTING:**

VENT BRAND:

Simpson DuraVent GS/Pro® <input type="checkbox"/>	Selkirk Direct-Temp® <input type="checkbox"/>	Security Secure Vent™ <input type="checkbox"/>
AmeriVent Direct™ <input type="checkbox"/>	Metal Fab Direct Vent <input type="checkbox"/>	ICC EXCELDirect <input type="checkbox"/>

VENT TERMINATION (CAP):	HORIZONTAL <input type="checkbox"/>	VERTICAL <input type="checkbox"/>	SNORKEL <input type="checkbox"/>
VENT CAP MODEL NO:			

CONFIGURATION

TOTAL HORIZONTAL RUN:		FEET/INCHES
TOTAL VERTICAL RISE:		FEET/INCHES
QTY. 90° ELBOWS:		
QTY. 45° ELBOWS:		

**ALTITUDE:**  FEET ABOVE SEA LEVEL

WAS STOVE DERATED?  Y or N? IF YES, TO WHAT ORIFICE SIZE?

UNUSUAL STRUCTURE NEAR VENT TERMINATION - DESCRIBE: PREVALENT WIND CONDITIONS? OTHER INSTALLATION NOTES:	INSIDE CORNER	TREES/SHRUBS	OTHER

## Replacement Parts List

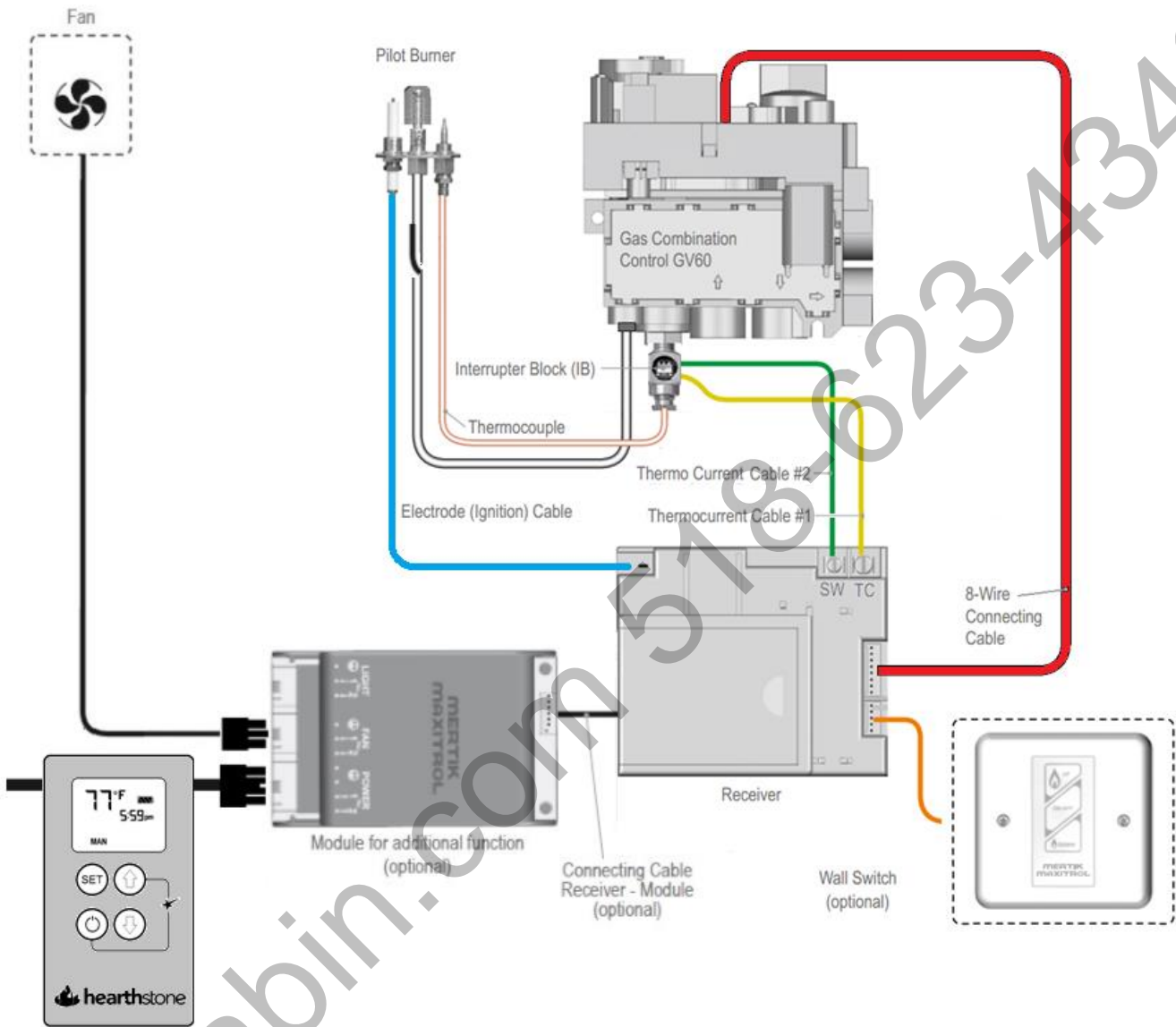
PART NAME	P/N	PART NAME	P/N
Pilot Head NG/LP	7211-070	Burner Orifice (NG)	7200-206
Pilot Thermocouple*	7211-473	Burner Orifice (LP)	7200-207
Pilot Injector (NG)	7211-071	Burner Glass Media – Black	7211-761
Pilot Injector (LP)	7211-072	Burner Module (NG)	99-74600
Receiver Module (Maxitrol)	7000-381	Burner Module (LP)	99-74601
Remote Handset (Maxitrol)	7000-362	Firebox Panel – Rear	99-76601
Gas Valve (Maxitrol)	7211-308	Firebox Panel – Left	99-76602
TC Line Red	7000-069	Firebox Panel – Right	99-76603
TC Line Yellow	7000-068	Thermocouple Interrupter Block	7000-067
8-Wire Connecting Cable	7000-044	Replacement Blower	99-57100
Flue Restrictor (E & F)	99-64300	Module for Additional Function	7000-382
Power Cord Assembly	7000-075	Blower Wire Harness	7000-076
Convection Duct	5700-002	Connecting Cable, Receiver	7000-043
Glass Assembly (Including Glass frame, Glass, and Gasket. Replace only as assembly)			99-58605

**\*This is a quick response thermocouple. Replace it only with Hearthstone Part Number 7211-473.**

For replacement parts and customer service, contact your Aurora dealer or:

Hearthstone Quality Home Heating Products, Inc.  
 Technical Services  
 317 Stafford Avenue  
 Morrisville, VT 05661  
[www.hearthstonestoves.com](http://www.hearthstonestoves.com)





Maxitrol GV-60 Control System

## Troubleshooting

Symptom	Possible Cause	Corrective Action
1. Pilot will not light.	<p>A. Optional Power supply not plugged in and/or batteries are dead.</p> <p>B. Insufficient gas pressure, air in the pilot line, or dirty or kinked gas line.</p> <p>C. Pilot orifice plugged.</p> <p>D. Defective or misaligned igniter element in pilot assembly.</p> <p>E. Defective igniter.</p> <p>F. After sitting for "off" season (summer), pilot assembly may be dirty.</p>	<p>A. Ensure power supply is plugged in and receiving 120V AC. Replace all batteries with known good batteries.</p> <p>B. Allow time for system to purge air in line. Check the inlet gas pressure. Make sure it is within the Min/Max. allowable pressures.</p> <p>C. Clean or replace the pilot assembly.</p> <p>D. If a flame lights the pilot, check the electrode gap and location. The gap should be 1/8" in the flame area.</p> <p>E. Check for a good connection between igniter and electrode. Check wire insulation. If everything is properly connected and still no spark, replace the Ignition Module.</p> <p>F. Clean or replace the pilot assembly.</p>
2. Pilot in Manual or Standby mode and will not stay lit after carefully following lighting instructions.	<p>A. Low or too high gas pressure</p> <p>B. Faulty connections.</p> <p>C. Pilot dirty or plugged.</p> <p>D. Thermocouple damaged.</p> <p>E. Thermocouple Interrupter circuit damaged.</p>	<p>A. Check for proper inlet pressure for the fuel gas in use.</p> <p>B. Check connections on the valve.</p> <p>C. Clean or replace the pilot assembly.</p> <p>D. Check for appropriate MV at thermocouple interrupter.</p> <p>E. Check thermocouple interrupter circuit for damage or loose connections.</p>
3. Pilot burning, no gas to main burner.	<p>A. Gas control system may be damaged.</p> <p>B. No power and/or batteries may be dead.</p> <p>C. Plugged burner orifice.</p>	<p>A. Check wiring for proper connections. Check components for proper operation. Check for appropriate MV output from thermocouple and check connections at thermocouple interrupter.</p> <p>B. Restore 120V service or replace batteries in receiver.</p> <p>C. Inspect burner.</p>
4. Pilot and burner come on, but go out after some warm-up.	<p>A. Inconsistent draft.</p> <p>B. Insufficient gas pressure.</p> <p>C. Excessive draft.</p>	<p>A. Check flue for blockage or other damage to venting.</p> <p>B. Check line pressure to ensure that the correct inlet pressure is present for the type of gas being used. If propane pressure is inconsistent, check for water condensation at the regulator.</p> <p>C. Check Restriction settings per this manual.</p>

Symptom	Possible Cause	Corrective Action
5. Frequent pilot outage.	A. Pilot flame may be too low or blowing, (high), causing the pilot safety to drop out. B. Excessive draft	A. Clean and/or adjust the pilot flame for maximum impingement on the thermocouple. B. Check Restriction settings per this manual.
6. Glass fogs	A. A normal result of gas combustion in a cold stove.	A1. After the heater has warmed up, the glass should clear. A2. Leave pilot in standby mode to keep stove warmer.
7. Blue Flames	A. A normal result during the first 20 minutes.	A. Flames should begin to turn more yellowish after 20 minutes of burning. B. If the blue color stays; adjust the air shutter for a proper burn.
8. Floating flames, lazy ill-defined, quiet flames, which roll around, sometimes completely off of the port, sometimes with overly, yellow tips. Possible sooting. Usually accompanied by the odor of aldehydes.	A. Potentially dangerous incomplete combustion due to incorrect air to fuel ratio (lack of combustion air or excessive fuel delivery I.e. excessive gas pressure, overrating of appliance). B. Incorrect air intake/exhaust flow system. Causes may be: B1. Blocked burner. B2. Blocked primary air B3. Blocked secondary air inlets C. Incorrect vent restrictor setting.	A. Check the appliance input rate and reduce if necessary. The air intake/exhaust flow system may be too restrictive or blocked (the rate at which the exhaust leaves [draft] determines the rate at which the combustion air is delivered). Poor draft results in insufficient air delivery or a restricted exhaust. Correct air intake/exhaust flow system. B1. Clear ports. B2. Clear obstructions. B3. Clear obstructions. C. If gas pressures are correct and the flames stay the same, check vent restrictor settings for a proper burn.
9. Burner flashback. Air-gas mixture ignites inside the burner near the orifice, usually creating a roaring noise like a blowtorch. The problem is an imbalance of gas flow velocity and burning speed pattern.	A. Excessive primary air. B. Burner input underrated. C. Valve leak if flashback occurs with burner valve in off position. D. Improper gas pipe size.	A. Adjust the air shutter for a proper burn. B. Check input rate. Check input pressure using a manometer. Confirm correct gas pressure at house meter or tank (call gas company). Confirm burner orifice size. C. Replace valve. If above corrections do not eliminate flashback, replace burner. D. Correct plumbing.
10. Delayed ignition (makes a sudden "whoosh" noise as the burner lights). This is a buildup of gas prior to ignition. This is more prevalent with propane (LP) fuel.	A. Incorrect air-to-fuel ratio. A1. Primary air incorrect. A2. Burner ports plugged.	A1. Adjust the air shutter for a proper burn. A2. Open ports to allow for proper travel of flames. B. Reposition media to eliminate interference with flame travel.

## Limited Warranty

**These warranties give you specific legal rights. You may also have other rights which vary from State to State.**

Hearthstone Quality Home Heating Products, Inc. (Hearthstone) warrants to the original retail purchaser only (the "Original Purchaser") the new appliance manufactured by Hearthstone, purchased by the Original Purchaser and installed by an authorized Hearthstone dealer or their designated representative against any of the occurrences listed in this document that result from defects in material or workmanship. This warranty is not transferrable. All obligations of Hearthstone under this document commence on the date of the Original Invoice (the "Purchase Date"). The term "Limited Lifetime" is defined as 10 years from the beginning of warranty coverage.

Hearthstone appliances are designed to be operated only with the fuels listed in your owner's manual.

**Burner** – Repair or replacement for three years from date of installation.

**Gas components & electrical components** – Repair or replacement for one year from date of installation.

**Blowers & remote controls** – Repair or replacement for one year from the date of installation.

**Porcelain Firebox Liners** – Replacement for one year against cracking or breakage due to thermal stress from date of installation. Excludes surface and hairline cracks and scratches or slight color changes that do not affect the operation or safety of the unit.

**Gaskets** – Repair or replacement for one year from the date of installation.

**Surrounds** – Replacement for one year against cracking or breakage due to thermal stress. Excludes surface and hairline cracks and scratches or slight color changes that do not affect the operation or safety of the unit.

Any parts repaired or replaced during the limited warranty period will be warranted under the terms of the limited warranty for a period not to exceed the remaining term of the original limited warranty or one year, whichever is longer.

**Parts:** Hearthstone will replace through an authorized dealer, defective parts covered by the foregoing warranty at no charge.

**Labor:** Within the first (1<sup>st</sup>) year after the Purchase Date, Hearthstone will pay for warranty labor performed by an authorized Dealer at Hearthstone's published labor rates in effect at the time the labor is performed only if the appliance is installed by an authorized dealer or their designated representative. Otherwise or thereafter, the Original Purchaser is responsible for the cost of labor.

**Shipping cost for parts:** Within the first ninety (90) days after the Purchase Date, Hearthstone will pay for the shipping of appliance parts covered by any of the foregoing warranties to and from Hearthstone or an authorized Dealer, as the case may be. Thereafter, the Original Purchaser is responsible for all shipping costs related to shipping appliance parts to and from Hearthstone or an authorized Dealer, as the case may be.

**Shipping cost for the appliance:** Within the first (1<sup>st</sup>) year after the Purchase Date, if the Original Purchaser is instructed to return the appliance to Hearthstone or an authorized Dealer for repair, Hearthstone will pay fifty percent (50%) and the Original Purchaser will pay fifty percent (50%) of the shipping costs related to shipping the appliance to and from Hearthstone or an authorized Dealer, as the case may be. Thereafter, the Original Purchaser is responsible for one hundred percent (100%) of all of the shipping costs related to shipping the appliance to and from Hearthstone or an authorized Dealer, as the case may be. Notwithstanding any other provision of this document, in no event will Hearthstone pay

for any Dealer fees or other fees for pick up or delivery of the appliance returned for repair; the Original Purchaser shall be responsible for any such fees.

### EXCLUSIONS & CONDITIONS

The warranties contained in this document do not cover, nor is Hearthstone responsible for:

1. Damages resulting from:
  - a. Failure to install, operate, or maintain the appliance in accordance with the owner's manual, operating instructions, installation instructions, or safety rating label provided with the appliance.
  - b. Over-firing the appliance. Over-firing can be identified by, but not limited to, warped cast iron or steel, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
  - c. Failure to install the appliance in accordance with all national or local building codes.
  - d. Shipping or improper handling.
  - e. Improper operation, abuse, misuse, continued operation with damaged, corroded, or failed components, accident, or improper/incorrect service or repairs.
  - f. Environmental conditions, inadequate ventilation, negative pressure, or improper drafting caused by tightly sealed constructions, insufficient make-up air supply, or air handling devices such as exhaust fans, forced air furnaces, or other such causes.
  - g. Damage caused by direct exposure to water.
  - h. Use of fuels other than those specified in the owner's manual.
  - i. Installation or use of components not supplied with the appliance, or any other components not expressly authorized and approved by Hearthstone.
  - j. Modifications of the appliance not expressly authorized and approved by Hearthstone in writing
  - k. Interruptions or fluctuations of electrical power supplied to the appliance.
2. All stones are warranted against cracking or breakage due to thermal stress, excluding surface and hairline cracks and scratches that do not affect the operation, or safety of the appliance.
3. Repair or replacement of wear parts. Such parts that are subject to normal wear and tear during the warranty period such as paint, gaskets, baffles, refractory materials, ash grates, and glass.
4. Damage resulting from installation, modification, alteration, repair or service of the appliance by any party other than an authorized Hearthstone dealer (a "Dealer") or their designated representative, or Hearthstone.
5. Damage due to water or condensation due to installation of the appliance in a high moisture area.
6. Damage due to installation of the appliance in an atmosphere contaminated by damaging chemicals, including but not limited to chlorine, fluorine or salts.
7. Scratches on glass, enameled surfaces or stones due to mechanical abrasion.
8. Noise caused by expansion or contraction caused by the heating and cooling of the appliance.
9. Odors caused by the heating of the appliance, or surrounding materials
10. Consequential damage caused by leaking of condensate during startup
11. A defect in any part of the appliance if the Original Purchaser fails to comply with Hearthstone's or a Dealer's request to ship the part or the appliance to Hearthstone or a Dealer, as the case may be.
12. Replacement stones and enameled parts are taken from current stock, and may not match originals in color, grain, or pattern. Hearthstone will supply replacement parts for discontinued parts in finishes or colors as available, or at their discretion.
13. Hearthstone's obligation under this warranty does not extend to the appliance's ability to heat the desired space. Information is provided to assist the customer and the dealer in selecting the appropriate appliance for the application. Consideration must be given to appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

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### **QUALIFYING FOR WARRANTY COVERAGE**

To obtain performance of any obligation under this document, the Original Purchaser must, within the applicable warranty time period, contact their original Hearthstone dealer, or the current responsible local Hearthstone dealer, for instructions regarding the return of defective parts for repair, the return of the appliance for repair, or to schedule a Dealer service call. The Original Purchaser should refer to the Dealer Network search engine contained on Hearthstone's Web site ([www.hearthstonestoves.com](http://www.hearthstonestoves.com)) if the original dealer is not available, to find a Hearthstone dealer nearest to the Original Purchaser's location.

### **REMEDY**

The remedy for any breach of the foregoing warranties will consist of repair or replacement, at Hearthstone's option, of any covered defect in the appliance. When the Original Purchaser contacts a Hearthstone Dealer, the Dealer on behalf of Hearthstone, as the case may be, will instruct the Original Purchaser to either return the defective part, or the entire appliance (if requested), to the Dealer or Hearthstone or allow a Dealer to make a service call at the place where the appliance is located. Hearthstone may require that a digital picture be provided to support the claim. Notwithstanding any other provision of this document, the Original Purchaser shall pay for any fees and service charges related to a Dealer's service call or the shipping charges associated with the return.

### **WARRANTY REGISTRATION**

The Original Purchaser can complete their warranty registration on our website at [www.hearthstonestoves.com](http://www.hearthstonestoves.com). Hearthstone's physical address is:

Hearthstone Quality Home Heating Products, Inc.  
Warranty Department  
317 Stafford Avenue  
Morrisville, VT 05661

**NOTE: ON-LINE REGISTRATION IS *NOT REQUIRED* AS A CONDITION OF WARRANTY COVERAGE OR HEARTHSTONE'S PERFORMANCE.**