



MADE IN CONNECTICUT !



# INSTALLATION AND OPERATION INSTRUCTIONS

## VERONA Gas Burner System by FIAMMA Manufacturing llc

If for any reason, you cannot follow these instructions, **FOR**

### **ANY REASON WHATSOEVER**

Please hire a plumber or Qualified Installer **"PLEASE"** do not use this product if you cannot follow these instructions.

The Verona Burner System is designed, and intended, for installation in an existing approved, fully vented, wood-burning fireplace, which includes gas hook-up. Gas Control Valve units may be fueled by, either Natural Gas or Liquid Propane. Liquid Propane must be ordered as such, **DO NOT** Connect the Unit with any fuel other than is intended !

**DO NOT INSTALL IN A WOOD BURNING STOVE**  
**NEVER OPERATE WITH CLOSED GLASS DOORS !**

### **GENERAL INFORMATION**

These instructions are intended as a general guide and do not supersede national or local codes in any way. Authorities having jurisdiction should be consulted before installation.

Installation and provision for combustion and ventilation air must conform to the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, or *CAN/CGA-B149.1, Natural Gas Installation Code*, or *CAN/CGA-B149.2, Propane Installation Code*.

### **!!! IMPORTANT !!!**

Read these instructions carefully before installing or operating this gas appliance. These instructions should be left with the homeowner for future reference.

**INSTALLER:** Leave this manual with the appliance.

**CONSUMER:** Retain this manual for future reference.

### **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 can not reach your gas supplier, call the fire department.

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

**Installation and service must be performed by a: Qualified technician, service agency, or the gas supplier.**

**Your unit was test fired and Inspected prior to shipment.**  
**Any discoloration on the Burner or pilot is due to the test fire**

### **!!! WARNING !!!**

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



### **!!! WARNING !!!**

This appliance must be installed only in a solid-fuel burning fireplace with a working flue and constructed of non-combustible materials. This unit is **NOT** for use with solid fuel. Solid fuels shall **NOT** be burned in a fireplace where a decorative appliance is installed.



### **!!! DANGER !!!**

**NEVER OPERATE THIS APPLIANCE WITH FIREPLACE GLASS DOORS CLOSED !**

## SAFETY INFORMATION



- < **WARNING:** Follow all gas leak check procedures in this manual, prior to operation.
- < **WARNING:** Fuels used in gas or oil – fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm. This warning is issued pursuant to California Health & Safety Code Sec. 25249.6.
- < While this appliance is not in use, the gas must be turned off at the gas supply.
- < **DO NOT ATTEMPT TO DISCONNECT THE GAS OR ANY GAS FITTING WHILE THIS APPLIANCE IS IN OPERATION.**
- < **NEVER** leave this decorative gas appliance unattended while in operation.
- < **NEVER** allow children to operate this decorative gas appliance.
- < **NEVER** place hands or fingers on the front edge of this decorative gas appliance.
- < **NEVER** use liquid propane gas in a natural gas unit.
- < **DO NOT** use solid-fuel or lighter fluid in any decorative gas appliance.

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

During manufacturing, fabrication, and shipping, various components of this appliance are treated with certain oils, films, or bonding agents. These chemicals ARE NOT harmful, but may produce annoying smoke and smells, as they are burned off, during the initial operation of the appliance. This may possibly cause headaches, and eye or lung irritation. This is a normal and temporary occurrence. The initial break-in period should last three ( 3 ) to four ( 4 ) hours. During this period, provide maximum ventilation by opening a window or door, to allow odors to dissipate. Any odor remaining after this initial break-in period, will be slight and will disappear with continued use.



### **!!! WARNING !!!**

**DO NOT USE SAND OR ANY OTHER GRANULAR MATERIAL AS A BURNER MEDIUM! USE ONLY THE APPROVED MEDIUM, EITHER PROVIDED, OR AS AN APPROVED ACCESSORY.**

**PROPER CLEARANCES FROM COMBUSTIBLE CONSTRUCTION AND MATERIALS MUST BE MAINTAINED FROM ALL SIDES, TOP, AND BOTTOM OF THIS APPLIANCE.**

**THIS APPLIANCE SHOULD NEVER BE PLACED NEAR ANY COMBUSTIBLE SURFACE.**

**THIS APPLIANCE SHOULD NEVER BE PLACED UNDER ANY COMBUSTIBLE CONSTRUCTION OR MATERIALS.**

**NEVER PLACE ANY COMBUSTIBLE MATERIAL WITHIN 24" OF THE FIREPLACE ENCLOSURE.**

### !!! WARNING !!!

The damper clamp, must be installed, in a manner, which will maintain the minimum permanent damper vent opening at all times. SEE FIGURE 1. See the Decorative Hearth System Specifications on page 3.

### !!! WARNING !!!

The State of Massachusetts requires that the chimney flue damper, when used with decorative gas appliances, be welded open or completely removed. In the Commonwealth of Massachusetts, this appliance must be installed by a licensed plumber or gasfitter.

### !!! WARNING !!!

Improper installation, adjustment, alteration, service or maintenance, can cause property damage, personal injury or loss of life. Refer to the owner's information manual, provided with this appliance. Installation and service, must be performed, by a qualified installer, service agency or the gas supplier.

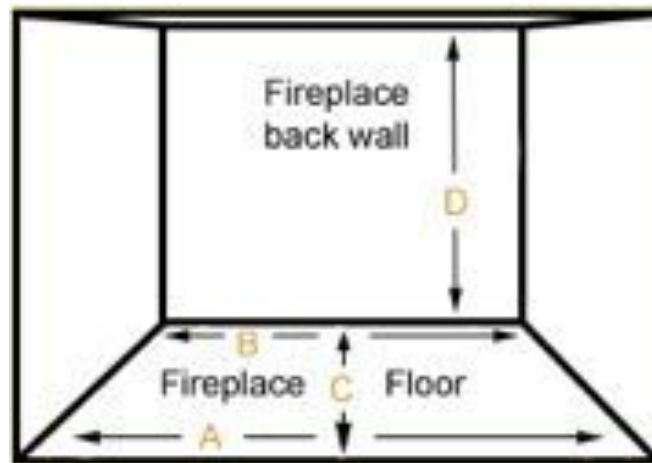
#### HIGH ALTITUDE DERATE

In the U.S.A., input BTU shall be de-rated 4% ( 1 orifice size ) per 1000 ft. for altitudes above 2000 ft.. In Canada, input BTU shall be de-rated 10% ( 2 orifice sizes ) at altitudes from 2000 ft. to 4500 ft..

### Flue Damper Clamp NOT OPTIONAL !



FIGURE 1



**A Front Width = Minimum 6" larger than unit size**

**B Center Width = Not Less than unit size**

**C Depth = All Verona Burners are 8.5 inches deep**

**D Height = Minimum 16"**

## INSTALLATION



### LOCATION

This appliance, must be installed only in a solid-fuel burning fireplace, with a working flue, and constructed of noncombustible materials.

### !!! IMPORTANT !!!

Before installing this appliance, have the fireplace and chimney, professionally cleaned, to remove any ashes, soot, creosote, or other obstructions. Perform this cleaning annually, after installation.

### !!! IMPORTANT !!!

Seal any fresh air vents or ash clean-out doors located on the floor or wall of the fireplace. If this is not performed, drafting may cause pilot outage or sooting. Use a heat-resistant sealant; DO NOT seal the chimney flue damper.

### !!! WARNING !!!

Gas supply system must be installed in accordance with the U.S. National Fuel Gas Code.

This appliance and its individual shut off valve must be disconnected from the gas supply piping system during any system pressure test in excess of ½ PSI ( 3.5 KPA ).

Use a system manual shut off valve to shut off the gas supply to this gas appliance before continuing with installation procedures.

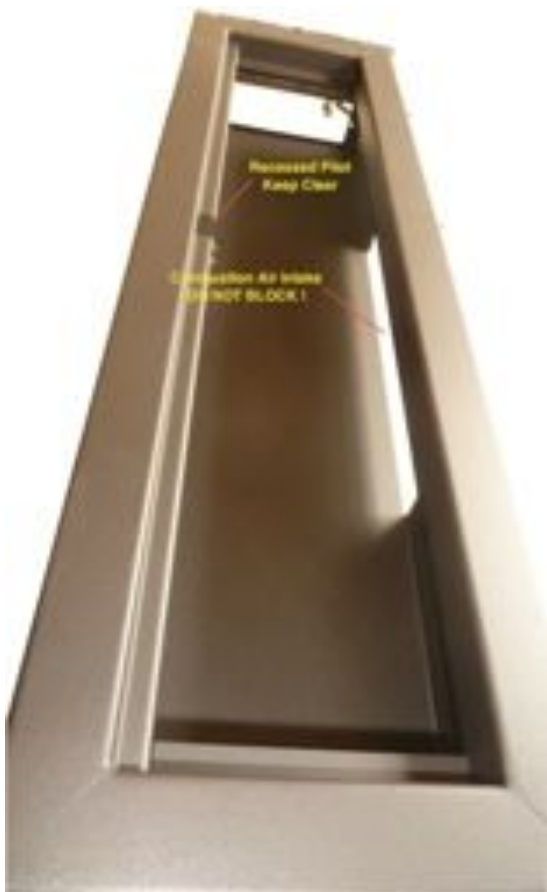
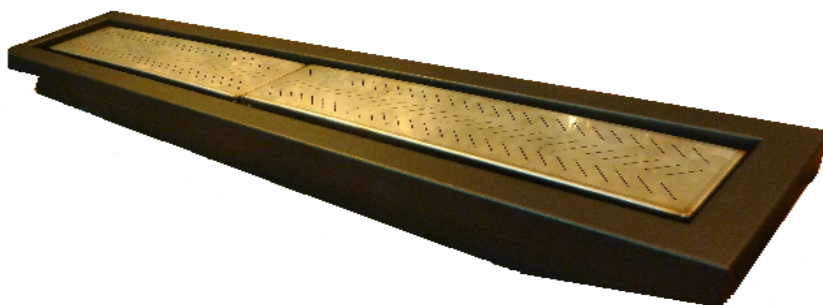


FIGURE 3 – VERONA BURNER SYSTEM

FIGURE 2 VERONA 30 BURNER SYSTEM FRONT VIEW



NEVER OPERATE UNIT WITHOUT MEDIA ON BURNER  
The Burner May warp and will not be covered under warranty.



VERONA 42 BURNER SYSTEM FRONT VIEW

**NOTE: Verona 23" and 30" are a single Burner.  
Verona 42" is A double Burner system, All  
Controls and functions are the same.**



WHEN INSTALLING THE APPLIANCE, DO NOT OBSTRUCT THE FLOW OF COMBUSTION AND VENTILATION AIR.

## SET UP AND ASSEMBLY

Your Verona Burner System comes assembled, ready for the gas connection, with the exception of the medium.

### !!! IMPORTANT !!!

Decorative Gas Hearth Systems are shipped with the appropriate gas connections. If you have purchased an inappropriate unit for your application, contact your installer

- 1- Remove all contents from the Hearth Kit shipping container.
- 2- Check the contents of the shipping container against the shipping and packing list, or the parts list in this manual. Report any missing or damaged parts to your retailer.
- 3- Remove any and all protective wrapping from the appliance.

### TOOLS THAT YOU WILL NEED

- 2- Adjustable wrenches; at least one of which has a range of 3/4" ( for gas fittings )
- 2- Adjustable Pipe Wrenches
- 1- 3/8" Nut Driver or socket ( for damper clamp )

- 1- **TURN OFF THE GAS SUPPLY SYSTEM!**
- 2- Place the fireplace damper in the fully open position, and install the damper clamp over the lip of the damper ( **The damper must be in a fully open position, any time that this appliance is in operation** ). Using a 3/8" nut driver or socket, and turning in a clockwise direction, tighten the damper clamp bolt until the clamp is secure. The damper clamp must be in place to maintain the minimum permanent vent opening. See the chart " MINIMUM FIREPLACE DIMENSIONS " on page 3, for correct venting. ( SEE FIGURE 1, page 3 )
- 3- Using two adjustable pipe wrenches ( one wrench on the gas stub, and one wrench on the fitting ), remove the existing cap or gas jet assembly from the gas stub in your fireplace, by turning the wrench on the gas cap, in a counter-clockwise direction.
- 4- Clean the pipe threads, on the gas stub, using either, a wire brush or steel wool. Apply Teflon tape or pipe dope to the steel fittings before making any connection.

NOTE: All gas connections ( except for brass to brass ) require Teflon tape or pipe dope.

**The Verona has 2 access openings and one air intake. Under NO circumstances, can either the Valve access or the air intake in rear of Unit be Blocked. A cover Panel is included for the Remote receiver on Opposite side of Verona Burner!**

### INSTALLING THE APPLIANCE INTO THE FIREPLACE

- 1- Place the VERONA BURNER into the fireplace ( unit is packaged completely assembled ). The unit should be centered from both side to side, and front to back. ( SEE FIGURE 2 & 3 )
- 2- Using an adjustable wrench, and turning in a clockwise direction, attach a 1/2" Female Flare X 3/8" Male Flare Brass Reducer Fitting ( included on some models ), to the gas stub.
- 3- Using two adjustable wrenches, and turning in a clockwise direction, attach one end of the gas line, extending from the unit, to the brass reducer fitting that you have just installed on the gas stub. ( One wrench on the brass gas line fitting, and one wrench on the brass reducer fitting )

BE CAREFUL! Make sure all gas connections are snug, but DO NOT over tighten!

- 4- **It is our recommendation that, at this point of the installation, lighting the pilot, and test ignition should take place, before attempting any installation of medium for under 1 minute**

**FOR UNITS WITH GAS CONTROL VALVES**, see "UNITS WITH REMOTE SYSTEMS" section, on page 6 and "LIGHTING INSTRUCTIONS WITH SAFETY PILOT" on page 9.

- 5- **CHECK FOR LEAKS!** Apply soapy water to each connection and watch for bubbles. If bubbles are seen, turn off the gas supply; retighten the connections, and CHECK AGAIN! DO NOT use a lighted match or other source of ignition to check for leaks. Repeat this procedure until you are sure that there are no leaks in the gas connections.
- 6- When you are assured that there are no gas leaks present, you may proceed to the " FINAL SET UP " section, on page 8.

### !!! WARNING !!!

**DO NOT USE SAND OR ANY OTHER GRANULAR MATERIAL AS A BURNER MEDIUM! USE ONLY THE PROPER MEDIUM, EITHER PROVIDED, OR AS AN APPROVED ACCESSORY.**



## REMOTE SYSTEMS

All burner systems are capable of operation with a latching solenoid, remote control system or Variable Flame Height motor.

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

All VERONA Vented Burner Systems use:

- 1- The American Flame, AF-1000 Series Valves ( AF-1010 shown here with remote solenoid shown separately in diagram ). All systems use a safety pilot, with a thermocouple.  
( SEE FIGURE 4 & 5 )
- 2- One of the following, latching solenoid, battery operated Variable Flame Height systems:
  - A- On/off hand held remote
  - B- Variable Flame remote

One is necessary for operation with any of the above remote systems.

### CONNECTING THE RECEIVER TO THE VALVE

- 1- The wire harness should already be installed, in the terminal block, on the rear of the remote receiver.
- 2- Connect the BLACK 18 gauge wire, with the 1/4" female terminal, from the receiver, to the BLACK wire with the 1/4" male terminal, from the valve solenoid.
- 3- Connect the RED 18 gauge wire, with the 1/4" female terminal, from the receiver, to the RED wire with the 1/4" male terminal, from the valve solenoid.

**IMPORTANT NOTE:** Operation of these controls is dependent upon which wire is attached to which terminal. If operation does not correspond to operating buttons on the transmitter, reverse the wire installation at the receiver, or at the transmitter.

**BEFORE TURNING KNOB TO "ON" POSITION, PRESS THE OFF BUTTON ON THE REMOTE !**

**NOTE:** Up to 6.3 VDC of power is provided at the receiver terminal.

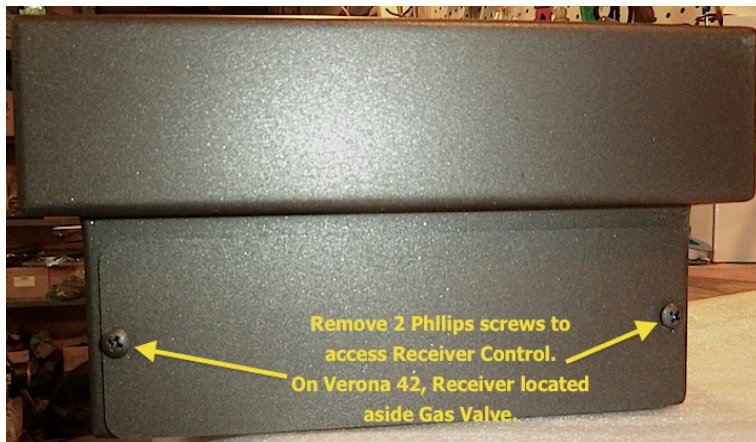


FIGURE 6

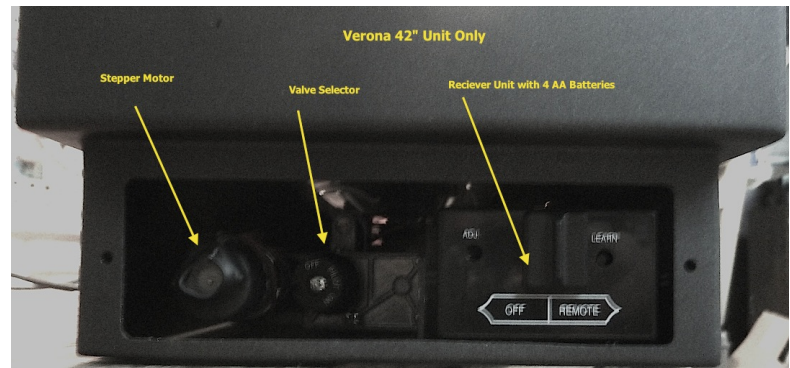


FIGURE 4 NOTE: The Verona 42 has Receiver on the side of Gas Valve on one side

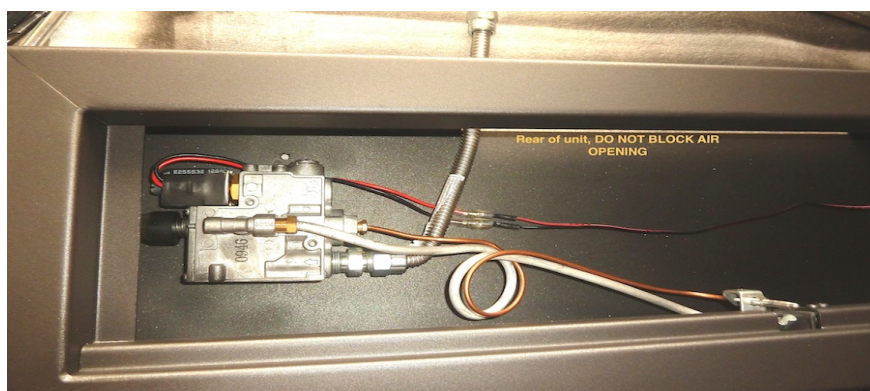
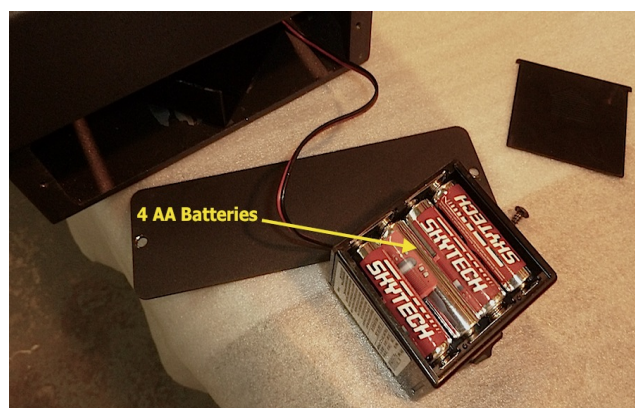
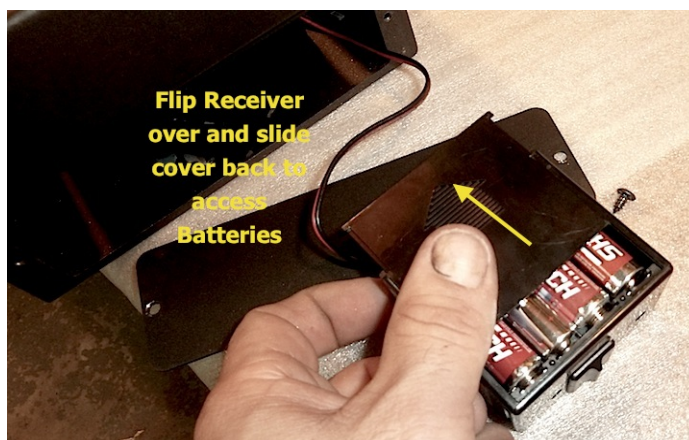


FIGURE 5



FIGURE 7

One Side of the Verona has a steel cover with 2 Phillips screws, This conceals the Remote Receiver ( FIGURE 6 ) This is an Inside View of the Receiver behind the steel cover ( FIGURE 7 ) To replace 4 AA Batteries, remove this cover and gently pull out the receiver. Replace batteries and cover.



## FINAL SET UP

### !!! WARNING !!!

Failure to position the parts in accordance with all included pictures, diagrams, and drawings, or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

FIGURE 12

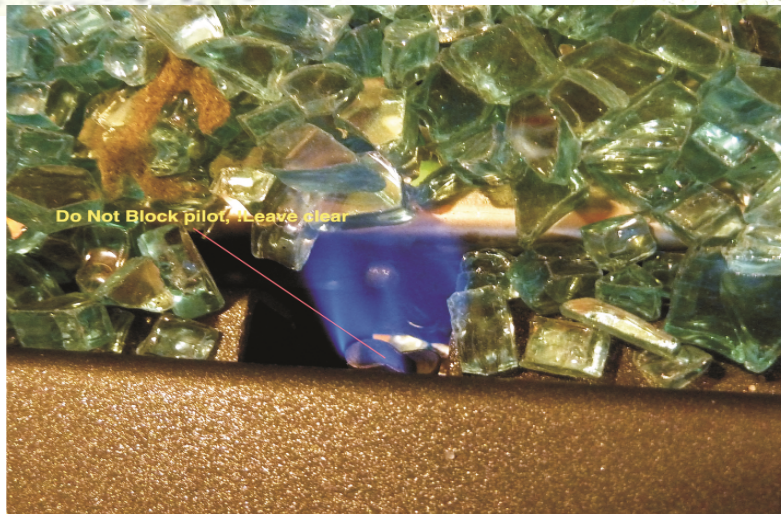


FIGURE 13

**WARNING:** DO NOT apply extra material not supplied or approved with this appliance.

**CAUTION:** DO NOT place glass medium, directly in the area of the safety pilot assembly!

## OPERATION – UNITS WITH GAS CONTROL VALVE

### FOR YOUR SAFETY – READ BEFORE LIGHTING

### !!! WARNING !!!

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

All units with gas control valves, must be lit by a Safety Pilot. The Pilot is located in the middle front, do not Block pilot with media. ( SEE FIGURE 13 )

Follow these instructions exactly when lighting the appliance. BEFORE LIGHTING, smell around the appliance area for gas. Be sure to smell next to the floor, as LP gas is heavier than air and will settle to the floor. Use only your hand to rotate the gas control knob. Never use tools. If the knob will not turn by hand, do not try to repair it; call qualified service technician or installer. Force or attempted repair, may result in a fire or explosion.

### !!! WARNING !!!

All gas burning appliances produce smoke and carbon monoxide gas during operation. These fumes can be harmful if the appliance is used in any other than a fully vented fireplace.

### !!! WARNING !!!

When this decorative gas appliance is used in a fireplace equipped with a combustion air kit and glass doors, the glass doors MUST remain open during operation. This will provide to the surrounding area, and minimize overheating of any valve installation. The glass doors may be closed when the appliance is not in use.

## LIGHTING INSTRUCTIONS

- 1- **STOP!** Read all warnings and safety information in this manual.
- 2- **WARNING:** BE SURE THAT THE CHIMNEY DAMPER IS FULLY OPEN!

### LIGHTING THE PILOT

- 3- Push in the gas control knob slightly, and turn it in a clockwise direction to the OFF position. DO NOT FORCE! NEVER USE ANY TOOL, TO ROTATE THE GAS CONTROL KNOB! If gas control knob will not rotate, contact your installer or the Service Center. ( SEE FIGURE 14 )

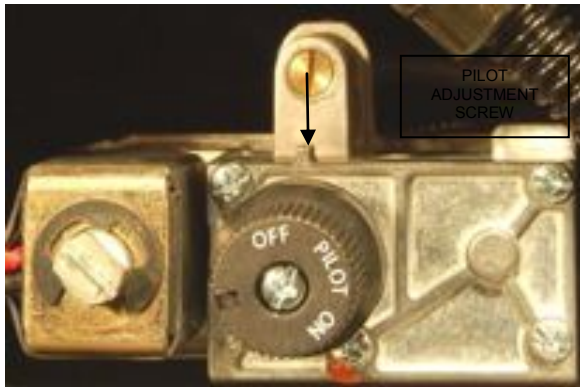


FIGURE 14

- 4- Slowly, turn on the gas, at the manual shut-off valve, beside the fireplace.
- 5- **STOP! WAIT FIVE ( 5 ) MINUTES!**
- 6- If you smell gas, **STOP!**
- 7- Turn off the gas at the manual shut-off valve, and recheck all gas connections for leaks. Do not continue until all leaks are corrected. Once you are assured that there are no leaks, proceed with step eight ( 8 ).
- 8- Locate the pilot. Pilot is located at the rear, right-hand side of the unit. ( SEE FIGURE 13 )
- 9- While holding a burning, long hearth match or hand fire starter, near the pilot head, depress the gas control knob all the way down, and turn the knob in a counter-clockwise direction, to the pilot position. Continue to hold the gas control knob down for approximately one ( 1 ) minute, after the pilot is lit.
- 10- Pilot should remain lit, and control knob should pop back out when released. If not, repeat the aforementioned steps. If pilot ignition does not take place, contact your installer or the **Fiamma** Service Center.

### LIGHTING THE BURNER SYSTEM

See the instructions that are packaged with the remote, and/or instructions on Page 6, of this manual.

**WARNING:** If ignition does not take place, **TURN THE GAS OFF**, at the manual shut-off valve, and wait five ( 5 ) minutes, before attempting to relight the appliance. If after repeated attempts, the appliance does not ignite, contact your installer, or the **firegear** Service Center.

### PILOT FLAME ADJUSTMENT

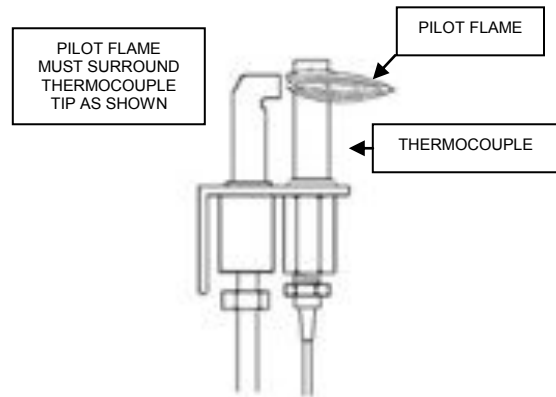


FIGURE 15

The pilot flame should be a soft blue in color, and should surround the last 1/2" of the thermocouple tip.

### MAINTENANCE & SERVICE

Your Verona Burner should be thoroughly inspected on a regular basis, at least once a year, by a qualified installer.

At the beginning of each heating season, the system should be checked as follows:

- 1- Check the chimney flue or vent pipe to make sure that the flue is drawing properly, and that any vent pipe connections are tight.
- 2- Check to see that there are no blockages at the chimney or vent termination.
- 3- Check for creosote, or soot build up in chimney or vents, and clean if necessary.
- 4- Pilot and burners should be inspected annually, at the beginning of each heating season.

### ADJUSTMENTS

The burner system has been adjusted for proper operation at the factory. No adjustment is necessary, other than altitude de-rate, or pilot flame.

NEVER enlarge valve orifices or burner ports.

# SYSTEM TROUBLE SHOOTING

PROBLEM OBSERVED	POSSIBLE CAUSE	CORRECTIVE MEASURE
Gas odor during set up	Gas leak	See " What to do if you smell gas " page 1 Check all gas connections
Gas odor before first ignition	Gas leak	See " What to do if you smell gas " page 1 Check all gas connections
Pilot will not ignite, or will not stay lit	No gas to pilot Thermocouple not hot Improper pilot flame adjustment Loose connections on thermocouple Faulty pilot or thermocouple Faulty Valve	Make sure gas is on, in pilot position Depress valve knob for at least 1 minute See Pilot Characteristics - adjust flame Check gas connections Replace Safety Pilot Replace Valve
Delayed ignition	Low gas pressure Clogged or dirty burner ports Blocked orifice Faulty Valve	Check gas supply pressure Clean burner ports Check orifice opening Replace Valve
Burner does not light but pilot remains on	Low gas pressure Clogged or dirty burner ports Blocked orifice Faulty pilot or thermocouple Faulty Valve	Check gas supply pressure Clean burner ports Check orifice opening Replace Safety Pilot Replace Valve
Burner lights but does not stay lit while pilot remains on	Low gas pressure Faulty Valve Faulty pilot or thermocouple Clogged or dirty burner ports	Check gas supply pressure Replace Valve Replace Safety Pilot Clean burner ports
Burner & pilot light but will not stay on	Low gas pressure Not enough fresh air for pilot Faulty Valve Faulty pilot or thermocouple Clogged or dirty burner ports Remote control overheating Remote control batteries failing	Check gas supply pressure Open door or window - ventilate Replace Valve Replace Safety Pilot Clean burner ports Move away from flame Replace batteries
Incorrect burner flame	Incorrect gas supply or pressure Blocked orifice Clogged or dirty burner ports Faulty Valve High altitude	Check gas supply pressure Check orifice opening Clean burner ports Replace Valve Adjust orifice size for altitude
Backfire of burner	Blocked orifice Clogged or dirty burner ports Low gas pressure	Check orifice opening Clean burner ports Check gas supply pressure
Appliance produces unwanted odors	Vapors from paint, hair spray, glues, etc Initial burn off of manufacturing chemicals	Ventilate room Ventilate room
Whistle noise from appliance	Air in gas line Control knob not in fully open position Spiral gas flex line	Bleed lines Open control knob to full open Replace gas feed line



## 1 YEAR LIMITED WARRANTY

**This Limited Warranty shall be valid and limited to, the original purchaser only, within the confines of the original site installation. This warranty is Limited to one Year from date of purchase**

**WARNING:** Any modification to this burner or its controls will void the warranty!

The item listed are warranted as follows for the period of time specified.

This Limited Warranty does not cover any failures or operating difficulties due to accident, abuse, misuse, alteration, misapplication, vandalism, improper installation or improper maintenance or service, or failure to perform normal and routine maintenance.

Deterioration, discoloration due to heat, or damage due to severe weather conditions such as hail, hurricanes, earthquakes, tornadoes, discoloration due to exposure to chemicals ( including salt ), either directly or in the atmosphere, or very high humidity, is not covered by this Limited Warranty.

Before returning any parts, contact Fiamma Customer Service Center. If Fiamma confirms the defect and approves the claim, Fiamma will replace such parts without charge. If you are required to return defective parts, transportation charges must be prepaid. Fiamma will require form of payment for the return of the product.

There are no other express warranties except as set forth herein and any applicable implied warranties of merchantability and fitness are limited in duration to the period of coverage of this express written Limited Warranty. Some states do not allow limitation on how long an implied warranty lasts, so this limitation may not apply to you.

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