



**FMI PRODUCTS, LLC**

**36" CORNER UNIT, B-VENT DECORATIVE GAS FIREPLACE  
OWNER'S OPERATION AND INSTALLATION MANUAL**

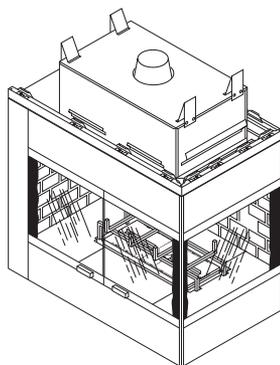


NATIONAL  
FIREPLACE  
INSTITUTE



CERTIFIED  
[www.nficertified.org](http://www.nficertified.org)

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.



**(V)GL36CR(E) Right Side  
Corner, Natural Gas  
(V)GL36CRP(E) Right Side  
Corner, Propane/LP**

**(V)GL36CL(E) Left Side  
Corner, Natural Gas  
(V)GL36CLP(E) Left Side  
Corner, Propane/LP Gas**

**WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.**

**FOR YOUR SAFETY**

- Do not store or use gasoline or any other flammable vapors or 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.
  - 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.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

**INSTALLER: Leave this manual with the appliance.  
CONSUMER: Retain this manual for future reference.**

For more information, visit [www.fmiproducts.com](http://www.fmiproducts.com)

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## SAFETY INFORMATION

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

**NOT FOR USE WITH SOLID FUEL  
CHECK LOCAL CODES PRIOR TO INSTALLATION**

### SAVE THIS BOOK

**This book is valuable. In addition to instructing you on how to install and maintain your appliance, it also contains information that will enable you to obtain replacement parts or optional accessory items when needed. Keep it with your other important papers.**

**This appliance may be installed in an aftermarket\* permanently manufactured (mobile) home, where not prohibited by state or local codes. This appliance is only for use with the type of gas indicated on rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used and installed by a qualified technician.**

\*Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.

## SAFETY INFORMATION

*Continued*

 **WARNING: This product contains and/or generates chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.**

**IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate or service this fireplace. Improper use of this fireplace can cause serious injury or death from burns, fire, explosions, electrical shock and carbon monoxide poisoning.**

 **DANGER: Carbon monoxide poisoning may lead to death!**

This fireplace is a vented product. This fireplace will not produce any gas leakage into your home if properly installed. This fireplace must be properly installed by a qualified service person. If this unit is not properly installed by a qualified service person, gas leakage can occur.

**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the fireplace may not have been installed properly. **Get fresh air at once!** Have fireplace inspected and serviced by a qualified service person. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol and those at high altitudes.

Propane/LP gas and natural gas are both odorless. An odor-making agent is added to each of these gases. The odor helps you detect a gas leak. However, the odor added to these gases can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

 **WARNING: Any change to this fireplace or its controls can be dangerous.**

1. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.
2. For propane/LP fireplace, do not place propane/LP supply tank(s) inside any structure. Locate propane/LP supply tank(s) outdoors. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lbs. capacity.
3. If you smell gas
  - shut off gas supply
  - do not try to light any appliance
  - do not touch any electrical switch; do not use any phone in your building
  - immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions
  - if you cannot reach your gas supplier, call the fire department.
4. Never install the fireplace
  - in a recreational vehicle
  - where curtains, furniture, clothing or other flammable objects are less than 42" from the front, top or sides of the fireplace
  - in high traffic areas
  - in windy or drafty areas
5. This fireplace reaches high temperatures. Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Fireplace will remain hot for a time after shutdown. Allow surfaces to cool before touching.
6. Carefully supervise young children when they are in the room with fireplace.
7. A hearth extension is not required with this appliance. If one is installed, it is for aesthetic purposes only and does not have to meet the standard requirements.
8. Turn fireplace off and let cool before servicing or repairing. Only a qualified service person should install, service or repair this fireplace. Have fireplace inspected annually by a qualified service person.
9. You must keep control compartments, burners and circulating air passages clean. More frequent cleaning may be needed due to excessive lint and dust from carpeting, bedding material, etc. Turn off the gas valve and pilot light before cleaning fireplace.
10. Have venting system inspected annually by a qualified service person. If needed, have venting system cleaned or repaired. See *Cleaning and Maintenance*, page 14.

## SAFETY INFORMATION

### Continued

- Keep the area around your fireplace clear of combustible materials, gasoline and other flammable vapor and liquids. Do not run fireplace where these are used or stored. Do not place items such as clothing or decorations on or around fireplace.
- Do not use this fireplace to cook food or burn paper or other objects.
- Do not use any solid fuels (wood, coal, paper, cardboard, etc.) in this fireplace. Use only the gas type indicated on fireplace nameplate.
- This 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*.
- Do not obstruct the flow of combustion and ventilation air in any way. Provide adequate clearances around air openings into the combustion chamber along with adequate accessibility clearance for servicing and proper operation.
- Do not install fireplace directly on carpeting, vinyl tile or any combustible material other than wood. The fireplace must set on a metal or wood panel extending the full width and depth of the fireplace.
- Do not use fireplace if any part has been exposed to or under water. Immediately call a qualified service person to arrange for replacement of the unit.
- Do not operate fireplace if any log is broken.
- Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this fireplace.
- Provide adequate clearances around air openings.

## DIMENSIONS

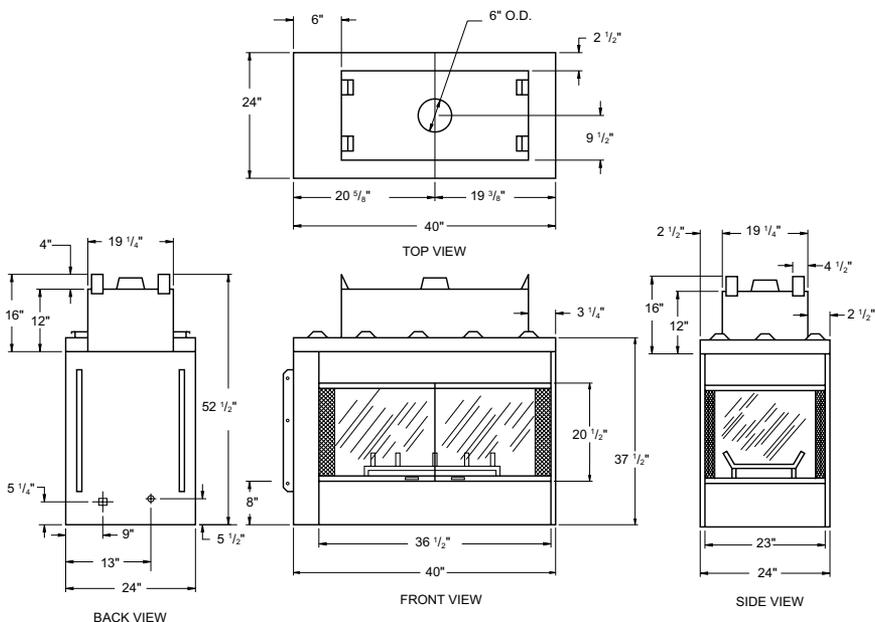


Figure 1 - Fireplace Dimensions

## INTRODUCTION

Models (V)GL36CR(P)/CL(P) are decorative gas fireplaces that use a millivolt gas control valve with millivolt ignition system. Models (V)GL36CR(P) E/CL(P)E use an electronic gas control valve with electronic ignition system.

These systems require a 6" B-type vent that is not supplied by FMI PRODUCTS, LLC. For installation guidelines, check your B-vent instructions.

**WARNING: This gas appliance must not be connected to a chimney flue servicing a solid fuel burning appliance.**

If you are uncertain as to what gas your unit is approved and tested for, check rating plate on inside of fireplace opening or consult your local distributor of FMI PRODUCTS, LLC products.

### BEFORE YOU BEGIN

Before beginning the installation of your appliance, read these instructions through completely. This FMI PRODUCTS, LLC appliance and its approved components are safe when installed according to this installation manual and are operated as recommended by FMI PRODUCTS, LLC. Unless you use FMI PRODUCTS, LLC approved components tested for this appliance, **YOU MAY CAUSE A FIRE HAZARD!**

The FMI PRODUCTS, LLC warranty will be voided by and FMI PRODUCTS, LLC disclaims any responsibility for the following actions :

- A) Modification of the appliance or any of the components manufactured by FMI PRODUCTS, LLC unless otherwise permitted by FMI PRODUCTS, LLC.
- B) Use of any component part not approved by FMI PRODUCTS, LLC in combination with this appliance.
- C) Installation and/or operation in a manner other than instructed in this manual.
- D) The burning of anything other than the type of gas approved for use in this gas appliance.

This 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*.

The installation must conform with local codes or, in the absence of local codes, with the current *National Fuel Gas Code, ANSI Z223.1/NFPA 54*.

This fireplace complies with the National Safety Standards and is listed and tested by PFS Corporation to ANSI Z21.50 standard as vented gas fireplace.

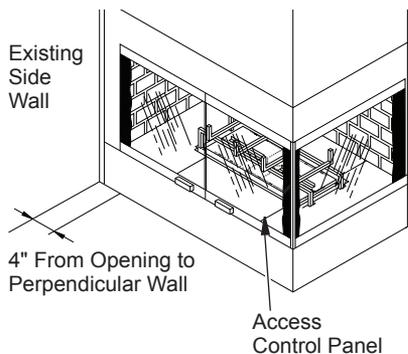
**WARNING: Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually thereafter by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding etc. It is important that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

**NOTICE: Decorative product not for use as a heating appliance.**

### SELECTING LOCATION

To determine the safest and most efficient location for your appliance, you must take into consideration the following guidelines:

1. The location must allow for proper clearances (see *Clearances*, page 6).
2. The location should be in a place where drafts, air conditioning ducts, windows or doors will not affect fireplace heat output.
3. A location that avoids the cutting of joists or roof rafters will make installation easier. Figure 2 shows a typical two-sided fireplace installation.



**Figure 2 - Typical Two Sided Fireplace Installation**

# SELECTING LOCATION

## Continued

In selecting a location, the following precautions must be observed:

1. Do not connect this appliance to a chimney system used for a solid fuel burning fireplace.
2. Install in an area providing ventilation and adequate combustion air.
3. Due to high temperatures, do not locate this appliance in high traffic areas or near furniture and draperies.
4. Never obstruct the front opening of the appliance or the flow of combustion and ventilation air. Keep control compartments accessible.
5. DO NOT locate in the vicinity where gasoline or other flammable liquids may be stored. The appliance area must be kept clear and free from these combustible materials.

# FIREPLACE INSTALLATION

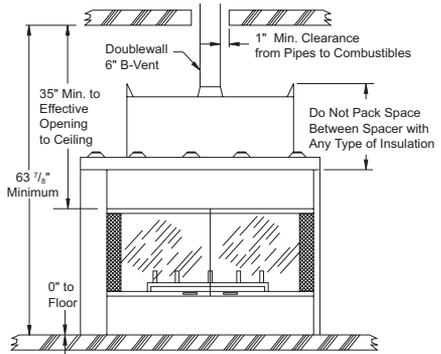
## CLEARANCES

Minimum clearances to combustibles are:

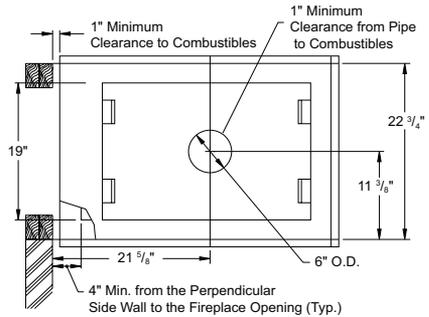
- Back and side . . . . . 1"
- Vent surfaces (side and bottom) . . . . . 1"
- Ceiling to opening . . . . . 35"
- Floor . . . . . 0"
- Wall to front of glass . . . . . 36"
- Perpendicular wall to opening of unit . . . . 4"
- Top spacer . . . . . 0"

See Figures 3 and 4.

**⚠ CAUTION: Do not block required air spaces with insulation or any other material. Do not obstruct effective opening of appliance with any type of facing material.**



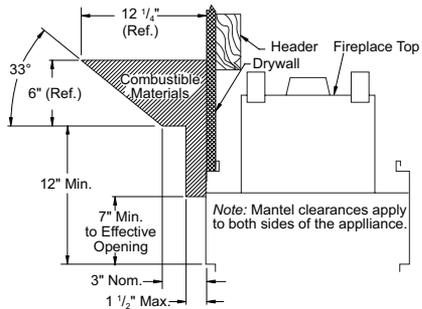
**Figure 3 - Minimum Clearances, Side View**



**Figure 4 - Clearances from Top View**

## MANTEL CLEARANCES

Woodwork, such as wood trims, mantels and other combustible materials, should not be placed within 7" of the opening of this appliance (see Figure 5). Combustible material above the fireplace projecting more than 1 1/2" from the appliance's front face must not be less than 12" from the appliance opening (ref. NFPA Standard 211 Sec. 7-3.3.3).



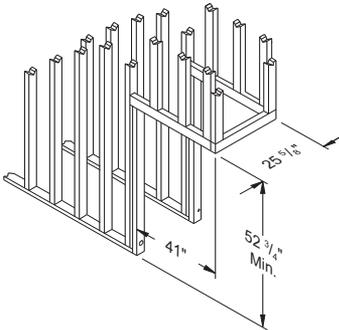
**Figure 5 - Mantel Clearances**

# FIREPLACE INSTALLATION

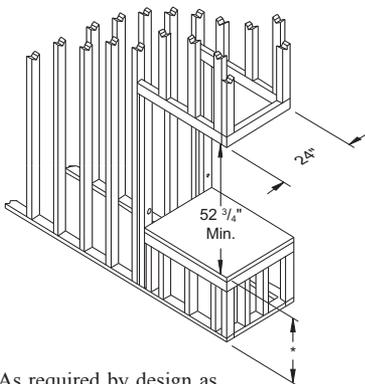
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## FRAMING

Construct framing using dimensions shown in Figures 6, 7 and 8. (Use the figure applicable to your application.) Figure 6 shows the framing dimensions prior to having the appliance in place. If installing on a platform, platform must be solid, flat and fully supported (see Figure 7). Once the unit has been fitted, bring studs against nailing flanges located on the side of the appliance making sure a 1" clearance is maintained as shown in Figure 8. If the fireplace is to be installed directly on carpeting, tile (other than ceramic) or any combustible material other than wood flooring the fireplace must be installed upon a metal or wood panel extending the full width and depth of the fireplace.

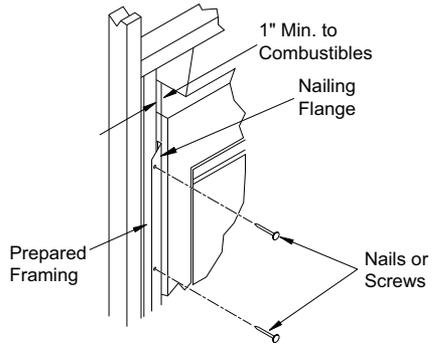


**Figure 6 - Framing Dimensions Prior to Placing Appliance**



\*As required by design as long as ceiling clearance is maintained

**Figure 7 - Framing Dimensions Prior to Placing Appliance Using a Platform**

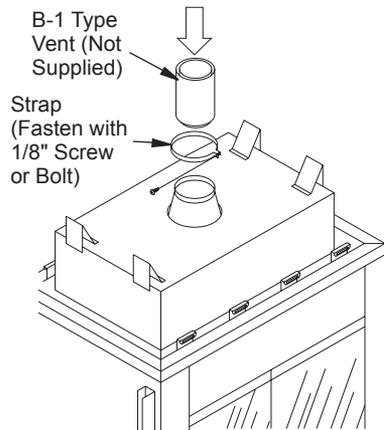


**Figure 8 - Securing Appliance with Nailing Flanges**

## VENT PIPE INSTALLATION

A 6" B-1 type gas vent pipe is a double wall, venting system (not supplied) which must be installed during rough framing of the appliance. Any B-1 type gas vent system may be used for proper venting as long as the vent system is installed per the vent manufacturer's recommendations.

FMI PRODUCTS, LLC supplies this appliance with a tapered starter pipe for a snug fit. Slide B-1 type vent pipe over this starter pipe until vent pipe is fully seated. Secure this first section of B-vent pipe by strapping the connector around the vent pipe and then tightening the strap with any 1/8" nut and bolt (see Figure 9). **Note:** Visually inspect for proper vent connection by looking inside top of appliance. If connection does not appear to be correct, contact your local service technician.



**Figure 9 - Installing B-Vent Pipe**

# FIREPLACE INSTALLATION

*Continued*

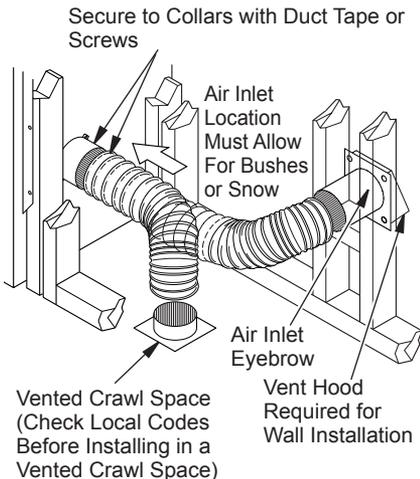
## OPTIONAL OUTSIDE AIR KIT (MODEL AK4)

The installation of an outside air kit should be completed during the rough framing of the fireplace due to the nature of its location. Outside combustion air is accessed through a vented crawl space.

**CAUTION:** Air inlet ducts must not be terminated in an attic space.

Avoid installing outside air eyebrow in areas where inlet opening may be blocked by snow, bushes or other obstacles (see Figure 10).

The maximum height for the air inlet termination cannot exceed 3 feet below the B-vent termination exhaust height.



**Figure 10 - Outside Air Kit**

## WALL SWITCH INSTALLATION

**CAUTION:** Do not connect this millivolt system wall switch to a regular 120v power source! Gas valve will be damaged beyond repair.

1. Remove the J-box cover plate from side of appliance's outer surround.
2. Connect the 18 ga. millivolt wire and wall switch (not supplied). For more detail, see *Wiring Diagrams* on page 15.

**Note:** If any of the original 15 feet supplied wire must be replaced, use Thermostat Millivolt Wire 18 AWG Type CL2-105 C or equivalent only.

**IMPORTANT:** Do not hook up to standard 120 VAC household wiring.

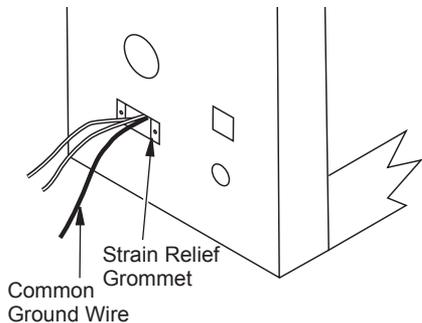
## ELECTRONIC MODELS

(V)GL36CR(E), (V)GL36CRP(E),  
(V)GL36CL(E), (V)GL36CLP(E)

This appliance must be properly wired to standard 120v household current through wall switch before its remote control unit can be used to activate the automatic pilot ignition (turn fireplace flames ON).

## Wall Switch Installation

1. Remove the J-box cover plate from side of appliance's outer surround.
2. Connect the 18 ga. wires coming through strain relief grommet on side of appliance's outer wall to standard household 120 VAC current through the wall switch (not supplied), as shown in Figure 11. For more detail, see *Wiring Diagrams*, page 15.



**Figure 11 - Wiring Through Outer Surround**

## GAS SUPPLY TESTING

**Note:** This section is intended as a guide for qualified technicians installing gas to this appliance.

**CAUTION:** Do not connect appliance before pressure testing gas piping. Damage to gas valve may result and an unsafe condition may be caused.

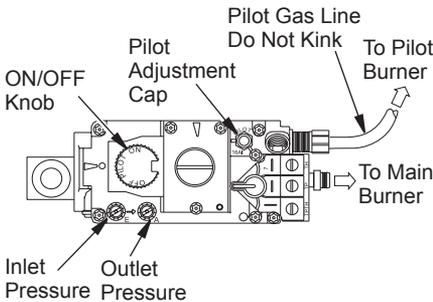
# FIREPLACE INSTALLATION

*Continued*

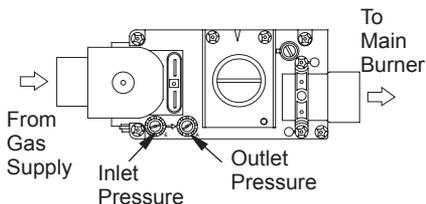
The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).

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

This unit has been tested for installation at high altitude. Higher altitudes affect the atmospheric pressure and heat value of gaseous fuels. When installing this unit at high altitudes, the rated input will be lower than at sea level. The lowered oxygen content in the air and the lowered gas density require installation of a different size orifice in order to achieve clean combustion of the unit. Consult the unit data plate for the proper high-altitude orifice size. Fill out the information sticker attached to the unit when field converting. See *Specifications*, page 15, when derating.



**Figure 12 - Millivolt Control Valve**



**Figure 13 - Electronic Control Valve**

## GAS LINE HOOK-UP

**⚠ WARNING:** Gas line hookup should be done by your gas supplier or a qualified service person.

**⚠ WARNING:** Before you proceed, make sure your gas supply is OFF.

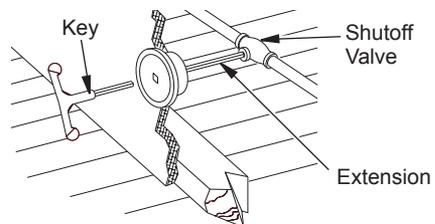
A manual shutoff valve has been included in the appliance's gas supply system. You may consider installing an extra gas shutoff valve outside the appliance's enclosure (check with local codes) where it can be accessed more conveniently with a key through a wall as shown in Figure 14.

Route a 1/2" NPT gas line towards appliance coming in from back of appliance. If installation permits, you may alternately route your incoming gas line from bottom of appliance toward either end. It is recommended to route gas pipe from back of fireplace if possible.

**⚠ CAUTION:** Do not kink flexible gas line.

**⚠ CAUTION:** Compounds used on threaded joints of gas piping shall be resistant to the action of Liquefied Petroleum (propane/LP) and should be applied lightly to ensure excess sealant does not enter the gas line.

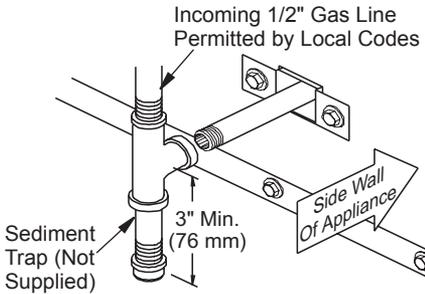
1. Install a sediment trap between incoming gas line and gas control valve (see Figure 15, page 10). Sediment trap should extend down center of pipe. Refer to your local codes.



**Figure 14 - Typical Exterior Wall Gas Shutoff Installation**

# FIREPLACE INSTALLATION

*Continued*



**Figure 15 - Sediment Trap**

2. Prepare incoming gas line and check with local codes regarding use of Teflon tape. Complete gas line installation by connecting incoming gas line with flexible gas line. Secure tightly with wrench. Do not overtighten.

**⚠ WARNING: All gas piping and connections must be tested for leaks after the installation is completed.**

**After ensuring that the gas valve is on, apply a commercial leak detection solution to all connections and joints. If bubbles appear, leaks can be detected and corrected.**

**Do not use an open flame for leak testing and do not operate any appliance if a leak is detected.**

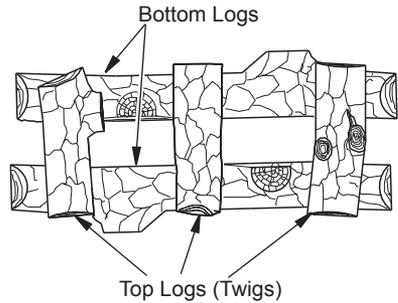
## LOG SET PLACEMENT

Carefully remove log set from packaging. Place the two bottom logs over grate and align with pins. Place three loose logs, or twigs, onto alignment pins on two bottom logs (see Figure 16).

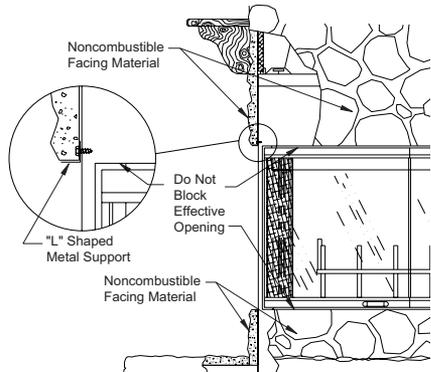
## FIREPLACE FACING

Any noncombustible material may be used for facing (glass, tile, brick, etc.) as long as the proper clearances are adhered to and the fireplace openings are not blocked or obstructed in any way. See *Clearances*, page 6, and Figure 17.

Use only heat resistant, noncombustible mortar or adhesive when securing facing material to the front of the fireplace.



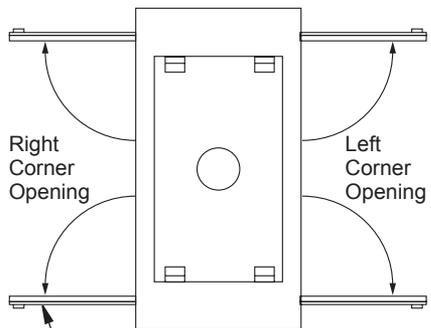
**Figure 16 - Log Placement**



**Figure 17 - Fireplace Facing Material**

## GLASS DOOR

When fireplace is in operation, glass doors must be either fully open or fully closed position (see Figure 18).



**Glass Doors Must be Fully Open (as Shown) or Fully Closed when Appliance is in Operation**

**Figure 18 - Glass Doors Shown Fully Open**

# OPERATING FIREPLACE

## MILLIVOLT MODELS

FOR YOUR SAFETY  
READ BEFORE LIGHTING

**⚠ WARNING:** If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

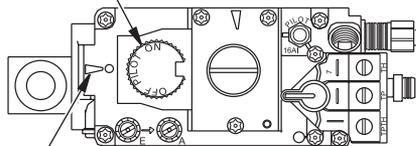
- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.  
**WHAT TO DO IF YOU SMELL GAS**
  - Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it. Call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

## LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information above.
2. Turn wall switch to the OFF position.
3. Turn off all electric power to the appliance.
4. Open control access panel.
5. Push in gas control knob and turn clockwise  to the OFF position (see Figure 19). *Note:* It is recommended that you maintain the gas control knob in the full OFF position during lengthy periods of seasonal non usage.

6. 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 in column 1. If you don't smell gas, go to the next step.
7. Turn control knob counterclockwise  to the PILOT position.
8. Push in control knob all the way and hold in. Immediately light the pilot by pressing the red ignitor button until a flame appears. Continue to hold the control knob in for about (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 7. The pilot is located by main burner (see Figure 20).
  - If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
  - If the pilot will not stay lit after several tries, turn the gas control knob to OFF and call your service technician or gas supplier.
9. Turn gas control knob counterclockwise  to ON. Knob can be turned to ON only if the control knob is popped out.
10. Replace control access panel.
11. Turn on all electric power to the appliance.

Gas Control Knob



Position Indicator

Figure 19 - Millivolt Control Valve

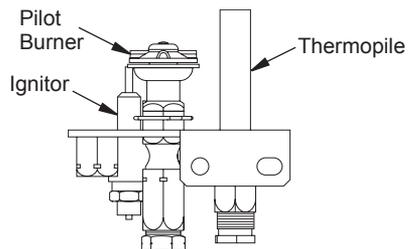


Figure 20 - Pilot

## OPERATING FIREPLACE

*Continued*

### TO TURN OFF GAS TO APPLIANCE

1. Turn off the wall switch.
2. Turn off all electric power to the appliance if service is to be performed.
3. Remove control access panel.
4. Push in gas control knob and turn clockwise  to OFF. Do not force.
5. Close shutoff valve (see Figure 14, page 9).
6. Replace control access panel.

### ELECTRONIC MODELS

### FOR YOUR SAFETY READ BEFORE LIGHTING

**⚠ WARNING:** If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not light the pilot by hand.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

#### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.
  - D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

### LIGHTING INSTRUCTIONS

**NOTICE:** During initial operation of new fireplace, burning logs will give off a paper-burning smell. Orange flame will also be present. Open window to vent smell. This will only last a few hours.

1. STOP! Read the safety information, column 1.
2. Set the thermostat to lowest setting (if applicable).
3. Turn off wall switch.
4. Open control access panel or louver.
5. Smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information in column 1. If you don't smell gas, go to the next step.
6. Turn the main burner wall switch to the ON position for ignition. There will be a spark at the electrode. The electrode is located by main burner (see Figure 21).
7. Replace control access panel or louver once there is a flame at the burner.
8. If burner will not stay lit after several tries, flip the wall switch to OFF and call your service technician or gas supplier.

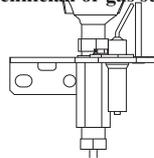


Figure 21 - Pilot

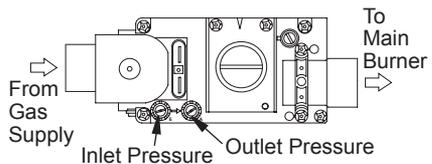


Figure 22 - Electronic Control Valve

### TO TURN OFF GAS TO APPLIANCE

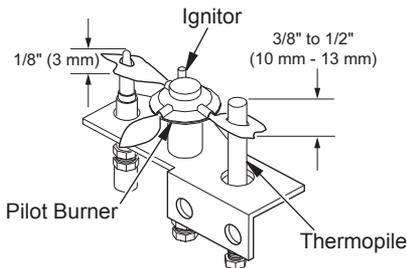
1. Turn off all electric power to the appliance if service is to be performed.
2. Remove control access panel.
3. Close shutoff valve (see Figure 14, page 9).

# INSPECTING BURNER

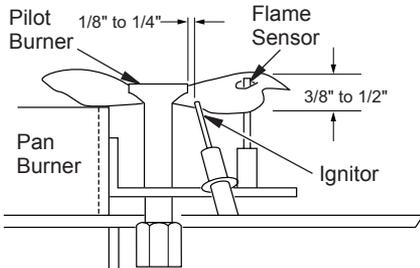
## PILOT ASSEMBLY ADJUSTMENT

The pilot assembly is factory preset for the proper flame height. Alteration to factory settings may have occurred during shipping. If this is the case, some minor readjustments may be necessary and should be done by a qualified technician.

The pilot assembly is located behind the burner next to the rear refractory piece at the right-hand side. The thermopile (in millivolt models) or the sensor (in electronic models) should be engulfed with the pilot flame approximately 3/8" to 1/2" in order for the regulator to receive proper signal (see Figures 23 and 24).



**Figure 23 - Correct Pilot Flame Pattern Millivolt Assembly**



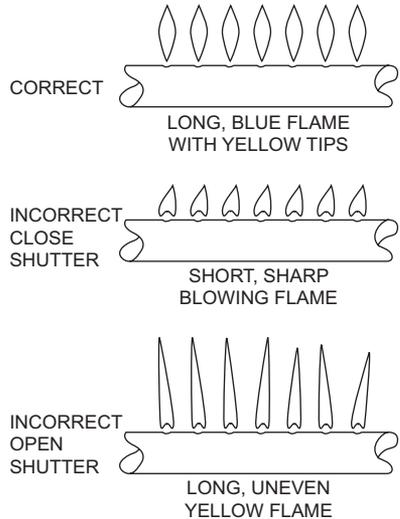
**Figure 24 - Correct Pilot Flame Pattern Electronic Assembly**

## BURNER FLAME ADJUSTMENT

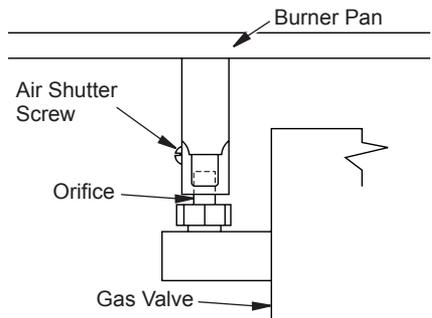
The air shutter, located at the base of the main burner tube, has been factory preset to the proper air to gas ratio which results in an even, clean burning flame across the burner (see Figure 25).

If readjustment is necessary, you can restore proper flame setting by loosening air shutter screw and rotate air shutter until proper flame setting is achieved (shutters normal setting is fully opened). Retighten air shutter screw. See Figure 26 for air shutter location.

**CAUTION:** Make certain orifice is fully inside venturi tube's air shutter and that air shutter is adjusted accordingly.



**Figure 25 - Burner Flame Patterns**



**Figure 26 - Air Shutter Adjustment**

## CLEANING AND MAINTENANCE

When lit for the first time, the appliance may emit a slight odor for about 16 to 24 hours. This is normal and is due to “curing” of logs and “burn in” of internal paints and lubricants used in manufacturing.

Keep compartments, logs, burners and area surrounding logs clean by vacuuming or brushing at least twice a year. Temporary removal of log set may ease cleaning of burner and pilot assembly.

In cleaning, take care not to alter pilot or burner location. Be sure appliance is cool before each maintenance session.

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

**⚠ WARNING:** The logs can be hot. Handle only when cool.

**⚠ WARNING:** Turn off gas and electrical power before servicing appliance. Any safety screen or guard removed for servicing must be replaced prior to operating the appliance.

**⚠ WARNING:** Make certain that wires and gas lines are not touching underside of firebox.

**⚠ WARNING:** Do not abuse, strike or slam glass doors.

**⚠ WARNING:** Do not operate appliance with panel(s) and glass removed, cracked or broken. Replacement of panel(s) should be done by a licensed and qualified service person.

**⚠ CAUTION:** If glass breaks, be cautious of fragments on floor. Keep children away from area. Do not run unit. Use proper safety gloves to remove broken glass. Discard glass safely. A glass door kit can be ordered through your local distributor. Do not substitute other material for glass.

Do not use abrasive liquids or cleaners for cleaning glass doors and trims. Use any household glass cleaner. Do not clean doors when hot. Allow appliance to cool before cleaning.

## TECHNICAL SERVICE

You may have further questions about installation, operation or troubleshooting. If so, contact FMI PRODUCTS, LLC's Technical Service Department at 1-866-328-4537. When calling please have your model and serial numbers of your fireplace ready.

You can also visit our Technical Services web site at [www.fmiproducts.com](http://www.fmiproducts.com).

## SPECIFICATIONS

### (V)GL36CR, (V)GL36CRE, (V)GL36CL, (V)GL36CLE

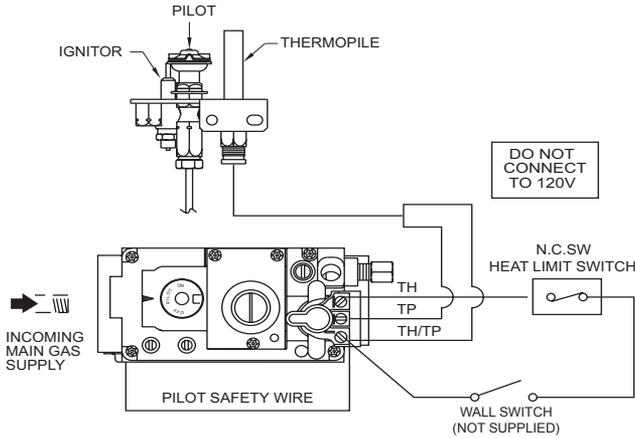
- Maximum Input Rating at Altitudes: 0-2,000 ft. - 42,000 Btu/hr., 2,000-4,000 ft. - 37,800 Btu/hr.
- Manifold Pressure: 3.5 W.C. (.87 kPa)
- Supply Pressure (in. of water): Minimum\* - 4.5" (1.12 kPa), Maximum - 11.0" (2.74 kPa)
- Orifice Size at Altitudes: 0-2,000 ft. - #30, 2,000-4,000 ft. - #31

### (V)GL36CRP, (V)GL36CRPE, (V)GL36CLP, (V)GL36CLPE

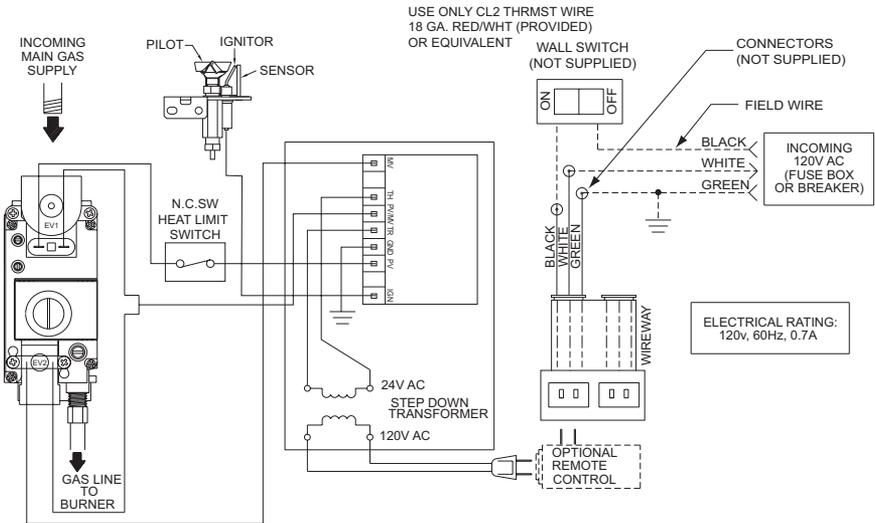
- Maximum Input Rating at Altitudes: 0-2,000 ft. - 42,000 Btu/hr., 2,000-4,000 ft. - 37,800 Btu/hr.
- Manifold Pressure: 11.0 W.C. (2.74 kPa)
- Supply Pressure (in. of water): Minimum\* - 12.0" (2.89 kPa), Maximum - 13.0" (3.23 kPa)
- Orifice Size at Altitudes: 0-2,000 ft. - #49, 2,000-4,000 ft. - #51

\* For the purpose of input adjustment

## WIRING DIAGRAMS



**MILLIVOLT WIRING DIAGRAM**



**ELECTRONIC WIRING DIAGRAM**

## TROUBLESHOOTING

### MILLIVOLT SYSTEM

*Note:* Before troubleshooting the system, make sure the gas shutoff valve is ON.

The two most common causes of a malfunctioning gas appliance are:

1. Loose wiring connections
2. Construction debris clogging the pilot and/or gas control valve filter

| OBSERVED PROBLEM  | POSSIBLE CAUSE   | REMEDY  |
|---|--|---|
| Pilot will not light  | <ol style="list-style-type: none"> <li>1. No gas supply or shutoff valve is OFF</li> <li>2. Air in gas line</li> <li>3. Construction debris clogging pilot orifice</li> <li>4. Low gas pressure</li> <li>5. Control valve knob is not on the PILOT position</li> <li>6. Kinked pilot line</li> <li>7. Bad control valve</li> </ol> | <ol style="list-style-type: none"> <li>1. Check to see if you have gas supply</li> <li>2. Hold regulator control valve in PILOT position for 2-3 minutes to purge air. If you smell gas stop and wait a few minutes before trying to light fireplace</li> <li>3. Remove debris and dirt, inspect and clean any other possible obstructions</li> <li>4. Contact your gas supplier</li> <li>5. Turn control knob to pilot</li> <li>6. Have a qualified technician replace pilot line</li> <li>7. Have a qualified technician replace valve</li> </ol> |
| Pilot will not stay lit   | <ol style="list-style-type: none"> <li>1. Loose wiring on thermopile to regulator. No millivolt current being sent back to regulator</li> <li>2. If valve knob and wall switch are in the ON position, probable defective control valve</li> </ol>   | <ol style="list-style-type: none"> <li>1. Check wiring connections (see <i>Wiring Diagrams</i>, page 15)</li> <li>2. Have a qualified technician replace valve</li> </ol>   |
| No gas to burner, although wall switch and valve are set to the ON position | <ol style="list-style-type: none"> <li>1. Wall switch wires defective</li> <li>2. Thermopile or sensor not generating sufficient voltage</li> </ol>  | <ol style="list-style-type: none"> <li>1. Check electrical connections and wires for continuity</li> <li>2. See <i>Pilot will not stay lit</i>, above</li> </ol>  |
| Frequent pilot outage   | <ol style="list-style-type: none"> <li>1. Pilot flame may be too low, causing safety pilot to “drop out”</li> </ol>  | <ol style="list-style-type: none"> <li>1. Clean and adjust pilot flame for maximum flame impingement on thermopile</li> </ol>   |
| Pilot goes out when wall switch is ON                                       | <ol style="list-style-type: none"> <li>1. Millivolt output on thermopile too high</li> </ol>   | <ol style="list-style-type: none"> <li>1. Have a qualified technician replace thermopile</li> </ol>   |
| Spark ignitor will not light pilot after repeated triggering of red button  | <ol style="list-style-type: none"> <li>1. Defective ignitor (no spark at electrode)</li> <li>2. Defective pilot or misaligned electrode at pilot (spark at electrode)</li> <li>3. Low line pressure</li> <li>4. No propane/LP gas in tank (Propane/LP units only)</li> </ol>   | <ol style="list-style-type: none"> <li>1. Check for spark at electrode and pilot. If no spark and electrode wire is properly connected, replace ignitor</li> <li>2. Check gap at electrode and pilot. Gap should be 1/8" for strong spark. If gap is correct but no spark, replace pilot</li> <li>3. Contact your local NG or LP gas supplier</li> <li>4. Refill supply tank (propane/LP only)</li> </ol>   |

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## TROUBLESHOOTING

### ELECTRONIC IGNITION SYSTEM

*Note:* Before troubleshooting the system, make sure the gas shutoff valve is ON.

The two most common causes of a malfunctioning gas appliance are:

1. Loose wiring connections
2. Construction debris clogging the pilot and/or gas control valve filter

| <b>OBSERVED PROBLEM</b>  | <b>POSSIBLE CAUSE</b>  | <b>REMEDY</b>  |
|--|--|--|
| Ignitor will not spark or burner will not light                                  | 1. No gas supply or shutoff valve is OFF   | 1. Check to see if you have gas supply   |
|  | 2. Air in gas line   | 2. Repeat lighting procedure until air is removed. If after repeated attempts fireplace does not light, call a qualified service and repair technician |
|  | 3. Construction debris clogging pilot orifice  | 3. Remove debris and dirt, inspect and clean any other possible obstructions   |
|  | 4. Low gas pressure  | 4. Contact your local NG or LP gas supplier  |
|  | 5. Control valve knob is not opening   | 5. Replace control valve   |
|  | 6. Kinked pilot line   | 6. Have a qualified technician replace pilot line  |
|  | 7. No power to unit or ignition module/power transformer is bad                              | 7. Check that main power is on and that all wire connections are made correctly to ignition module (see <i>Wiring Diagram</i> , page 15)               |
| Burner will not stay lit   | 1. Loose wiring on ignition module   | 1. Check ignition wire connection (see <i>Wiring Diagrams</i> , page 15)   |
|  | 2. Poor ground to ignition module  | 2. Check ground wire to ignition module  |
|  | 3. Main burner flame too low   | 3. Clean and adjust main burner, check supply and inlet pressure to unit.  |
|  | 4. Bad ignition assembly   | 4. Have a qualified technician replace ignition assembly   |
| No gas to main burner, although wall switch and valve are set to the ON position | 1. Wall switch wires defective   | 1. Check electrical connections  |
| Frequent main burner outage  | 1. Burner flame is too low or ignitor is misaligned causing safety main burner to "drop out" | 1. Clean and adjust main burner flame or adjust ignitor location for maximum flame impingement on sensor   |

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## REPLACEMENT PARTS AND ACCESSORIES

Purchase these fireplace replacement parts and accessories from your local dealer. If they can not supply these parts, call FMI PRODUCTS, LLC at 1-866-328-4537 for referral information. You can also write to the address listed on the back page of this manual.

Before ordering, please have your appliance's model name or number and part number of the item(s) you are ordering ready. The model name or number for your particular appliance may be found on the rating label located inside the appliance.

### MILLIVOLT VALVE

Natural Gas - 14512

Propane/LP Gas - 14513

### ELECTRONIC VALVE

Natural Gas - 14569

Propane/LP Gas - 14570

### MILLIVOLT PILOT ASSEMBLY

Natural Gas - 112784-01

Propane/LP Gas - 112784-02

### ELECTRONIC PILOT ASSEMBLY

Natural Gas - 108866-01

Propane/LP Gas - 108866-02

### TRANSFORMER - 14129

For use with all models.

### PIEZO IGNITER - 14261

For use with all models.

### ORIFICE

Natural Gas - 23105

Propane/LP Gas - 23106

For use with all models.

### WALL SWITCH KIT - GWMS2

For use with all models.

### IGNITION CONTROL - 110286-01

For use with all models.

### GAS VALVE CONVERSION KIT

Millivolt Propane/LP Gas: PC-GL36

Millivolt Natural Gas: NC-GL36

Electronic Propane/LP Gas: PC-GL36E

Electronic Natural Gas: NC-GL36E

### CABINET STYLE DOOR KIT

Brushed Brass - DBBGL36C

Platinum - DCGL36C

Black - DBGL36C

For use with all models.

### BURNER ASSEMBLY - 23439

For use with all models.

### RECEIVER AND HAND-HELD REMOTE CONTROL KIT - MRC

For Millivolt Units Only - Batteries required for receiver and transmitter.

### REMOTE CONTROL KIT - WRC

For Electronic Units Only - Batteries required for receiver and transmitter.

### VENT HOOD - AK4

For use with all models.

### REFRACTORY

Side Refractory - 23519

Bottom Refractory - 23516

Bottom Side Refractory - 23519

Bottom Rear Refractory - 23516

Face - 112139-01

For use with all models.

### GRATE ASSEMBLY - 11159

For use with all models.

### LOG SET ASSEMBLY - 25793

Bottom Rear Log - 25795

Bottom Front Log - 25794

Top Left Log - 25797

Top Center Log - 25672

Top Right Log - 25796

For use with all models.



# WARRANTY

## KEEP THIS WARRANTY

Model (located on product or identification tag) \_\_\_\_\_

Serial No. (located on product or identification tag) \_\_\_\_\_

Date Purchased \_\_\_\_\_

Keep receipt for warranty verification.

## FMI PRODUCTS, LLC LIMITED WARRANTIES

### New Products

**Standard Warranty:** FMI PRODUCTS, LLC warrants this new product and any parts thereof to be free from defects in material and workmanship for a period of four (4) year from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with FMI PRODUCTS, LLC's warnings and instructions.

For products purchased for commercial, industrial or rental usage, this warranty is limited to 90 days from the date of first purchase.

### Factory Reconditioned Products

**Limited Warranty:** FMI PRODUCTS, LLC warrants factory reconditioned products and any parts thereof to be free from defects in material and workmanship for 30 days from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with FMI PRODUCTS, LLC's warnings and instructions.

### Terms Common to All Warranties

The following terms apply to all of the above warranties:

Always specify model number and serial number when contacting the manufacturer. To make a claim under this warranty the bill of sale or other proof of purchase must be presented.

This warranty is extended only to the original retail purchaser when purchased from an authorized dealer, and only when installed by a qualified installer in accordance with all local codes and instructions furnished with this product.

This warranty covers the cost of part(s) required to restore this product to proper operating condition and an allowance for labor when provided by a FMI PRODUCTS, LLC Authorized Service Center or a provider approved by FMI PRODUCTS, LLC. Warranty parts must be obtained through authorized dealers of this product and/or FMI PRODUCTS, LLC who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.

Travel, handling, transportation, diagnostic, material, labor and incidental costs associated with warranty repairs, unless expressly covered by this warranty, are not reimbursable under this warranty and are the responsibility of the owner.

All warranty will be voided if this product is used with a thermostat.

Excluded from this warranty are products or parts that fail or become damaged due to misuse, accidents, improper installation, lack of proper maintenance, tampering, or alteration(s).

This is FMI PRODUCTS, LLC's exclusive warranty, and to the full extent allowed by law; this express warranty excludes any and all other warranties, express or implied, written or verbal and limits the duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose to four (4) year on new products and 30 days on factory reconditioned products from the date of first purchase. FMI PRODUCTS, LLC makes no other warranties regarding this product.

FMI PRODUCTS, LLC's liability is limited to the purchase price of the product, and FMI PRODUCTS, LLC shall not be liable for any other damages whatsoever under any circumstances including indirect, incidental, or consequential damages.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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

For information about this warranty contact:



**FMI PRODUCTS, LLC**

2701 S. Harbor Blvd.

Santa Ana, CA 92704

1-866-328-4537

**www.fmiproducts.com**

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