



retrofire

Patents Pending

Model RF24XBN/XBP Gravity Vent Fireplace Insert Installation and Owner's Manual

! WARNING



HOT GLASS WILL CAUSE BURNS.
DO NOT TOUCH GLASS UNTIL COOLED.
NEVER ALLOW CHILDREN TO TOUCH GLASS.



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

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

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 the 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.

Please read this manual **BEFORE** installing and operating this appliance.

This appliance may be installed in an after-market permanently located, manufactured (mobile) home where not prohibited by local codes.

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, unless a certified kit is used.

This appliance is a domestic room-heating appliance. It must not be used for any other purposes such as drying clothes, etc.

This appliance is suitable for installation in a bedroom or bed sitting room.

Massachusetts: The piping and final gas connection must be performed by a licensed plumber or gas fitter in the State of Massachusetts.

Manufactured by
MILES INDUSTRIES LTD., British Columbia, Canada
www.valorfireplaces.com

Thank You ...

For purchasing a Valor Retrofire. Your new radiant gas heater is a technical appliance that must be installed by a qualified dealer. Each Retrofire is fully tested during the production process for your safety and comfort.

Your unit has been professionally installed by:

Dealer Name _____

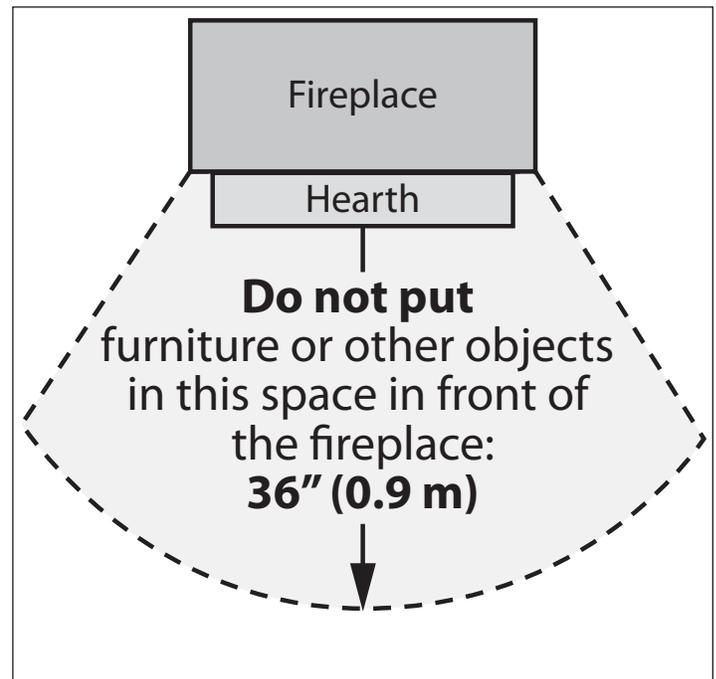
Phone Number _____

**Should you encounter an operational problem, call your dealer immediately.
Do not try to repair the unit as you may cause an injury or damage the fireplace.**

The information contained in this installation manual is believed to be correct at the time of printing. Miles Industries Ltd. reserves the right to change or modify any information or specifications without notice. Miles Industries Ltd. grants no warranty, implied or stated, for the installation or maintenance of your heater, and assumes no responsibility for any consequential damage(s).



We recommend that our gas hearth products be installed and serviced by professionals who are certified in the United States by NFI (National Fireplace Institute®).



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◇ = Updated content

Safety and Warning Information

READ and **UNDERSTAND** all instructions carefully before starting the installation. **FAILURE TO FOLLOW** these installation instructions may result in possible fire hazard and will void the warranty.

Prior to the first firing of the fireplace, **READ** the Owner's Information section of this manual.

DO NOT USE this appliance if any part has been under water. Immediately, **CALL** a qualified service technician to inspect the unit and to replace any part of the control system and any gas control that has been under water.

THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

Installation and repair should be **PERFORMED** by a qualified service person. The appliance and venting system should be **INSPECTED** before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding, etc. It is **IMPERATIVE** that the unit's control compartment, burner, and circulating air passageways **BE KEPT CLEAN** to provide for adequate combustion and ventilation air.

Always **KEEP** the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

NEVER OBSTRUCT the flow of combustion and ventilation air. Keep the front of the appliance **CLEAR** of all obstacles and materials for servicing and proper operation.

Due to the high temperature, the appliance should be **LOCATED** out of traffic areas and away from furniture and draperies. Clothing or flammable material **SHOULD NOT BE PLACED** on or near the appliance.

Children and adults should be **ALERTED** to the hazards of high surface temperature 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 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.

This unit **MUST** be used with a vent system as described in this installation manual. **NO OTHER** vent system or components **MAY BE USED**.

This gas fireplace and vent assembly **MUST** be vented directly to the outside and **MUST NEVER** be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance **MUST USE** a separate vent system. Common vent systems are **PROHIBITED**.

INSPECT the external vent cap on a regular basis to make sure that no debris, plants, trees, shrubs are interfering with the air flow.

The glass door assembly **MUST** be in place and sealed before the unit can be placed into safe operation.

DO NOT OPERATE this appliance with the glass door removed, cracked, or broken. Replacement of the glass door should be performed by a licensed or qualified service person. **DO NOT** strike or slam the glass door.

The glass door assembly **SHALL ONLY** be replaced as a complete unit, as supplied by the fireplace manufacturer. **NO SUBSTITUTE** material may be used.

DO NOT USE abrasive cleaners on the glass door assembly. **DO NOT ATTEMPT** to clean the glass door when it is hot.

TURN OFF the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.

Any safety screen or guard removed for servicing **MUST BE REPLACED** before operating this appliance.

DO NOT place furniture or any other combustible household objects within 36" of the fireplace front.

BE CAREFUL not to put any decorating objects sensitive to heat to close above or around the fireplace as it gets very hot when operating.

DO NOT use this heater as a temporary source of heat during construction.

This appliance is a **DOMESTIC ROOM-HEATING APPLIANCE**. It must not be used for any other purposes such as drying clothes, etc.

State of California. Proposition 65 Warning. Fuels used in gas, wood-burning 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 other reproductive harm. California Health & Safety Code Sec. 25249.6.

Safety and Warning Information

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.

Specifications

This appliance is intended for installation **into existing masonry or factory-built, solid-fuel burning fireplaces only.**

Approvals and Codes

This appliance is certified to ANSI Z21.88-2009 / CSA 2.33-2009 American National Standard / CSA Standard for *Vented Gas Fireplace Heaters* for use in Canada and the USA and to CGA 2.17-91 *High Altitude Standard in Canada*. This appliance is for direct vent installation terminating at the roof only.

Model RF24XBN is for use with Natural Gas only.

Model RF24XBP is for use with LPG only.

Conversion between fuels may only be done using the approved conversion kits listed in the section *Options*.

This appliance complies with CSA P4.1-09 *Testing method for measuring annual fireplace efficiencies*.

The installation must conform to local codes or, in the absence of local codes with the *National Fuel Gas Code, ANSI Z223.1* or the *Canadian Installation Code CAN/CGA-B149*. Only qualified licensed or trained personnel should install this 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* or the *Canadian Electrical Code, CSA C22.1*

Ratings

Model	NG	LPG
Gas	Natural	Propane
Altitude (Ft.)*	0-4,500 feet*	
Input Maximum (Btu/h)	20,500	19,000
Input Minimum (Btu/h)	12,500	12,500
Manifold Pressure (in w.c.)	3.7	10.5
Minimum Supply Pressure (in w.c.)	5.0	11.0
Maximum Supply Pressure (in w.c.)	10.5	14.0
Main Burner Injector Marking	82-580	92-200
Pilot Injector Marking	51	30

*High Altitude Installations

Input ratings are shown in BTU per hour and are certified without deration for elevations up to 4,500 feet (1,370 m) above sea level.

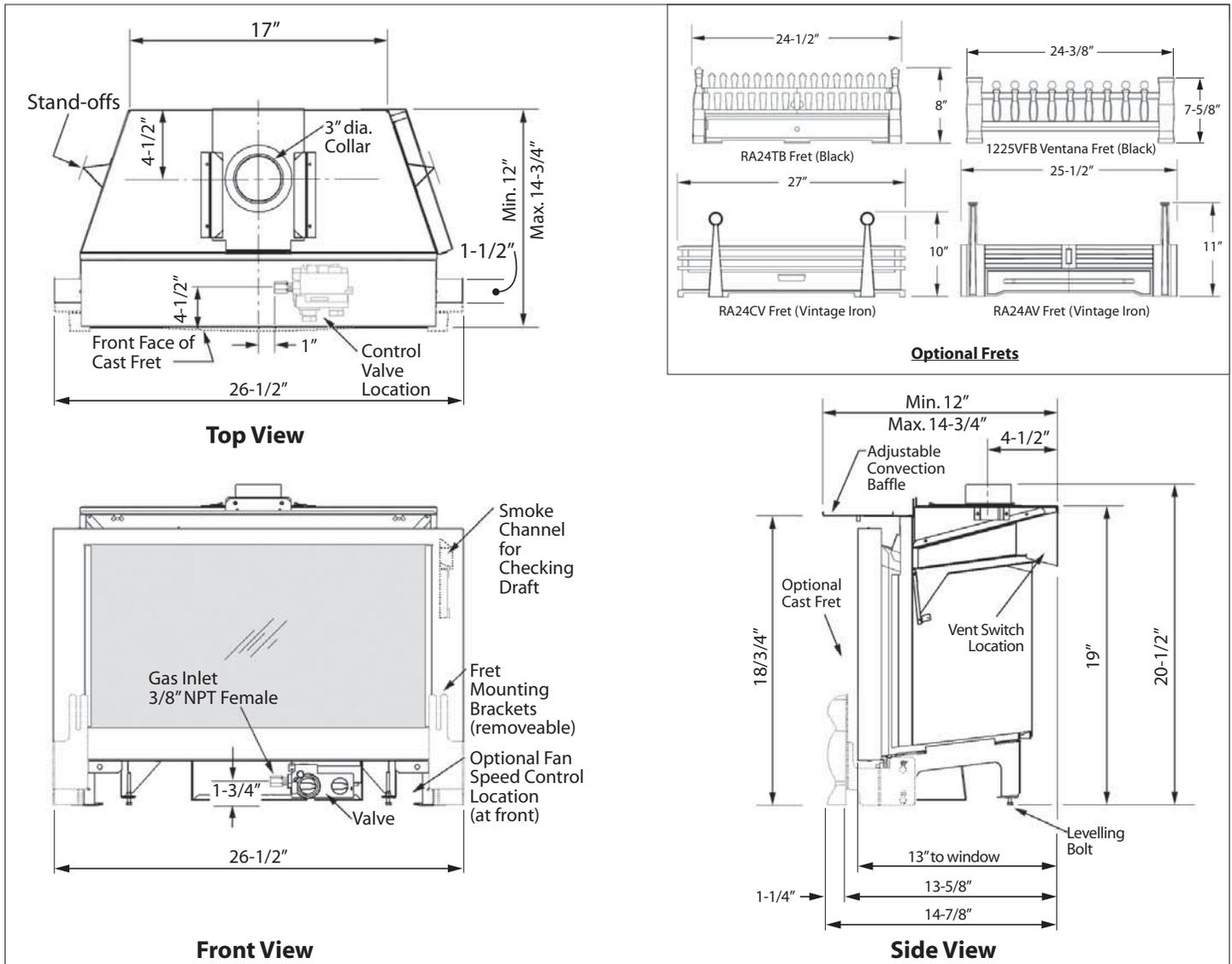
For elevations above 4,500 feet (1,370 m) in USA, installations must be in accordance with the current ANSI Z223.1 and/or local codes having jurisdiction.

In Canada, please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4,500 feet (1,370 m).

Dimensions

Dimensions—for Solid-Fuel Burning Fireplace Insert Only

See separate framing Dimensions for Zero Clearance applications with the Zero Clearance Kit RA24ZC.



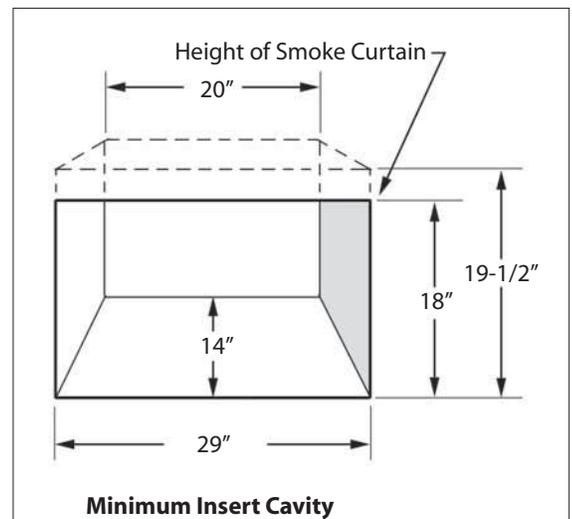
Minimum Cavity Dimensions—For Solid-Fuel Burning Fireplace Insert

(See separate framing dimensions for Zero Clearance applications in the Zero Clearance Kit RA24ZC.)

The diagram shows minimum dimensions required to install the RF24. Installations in cavities having a combination of **all** the minimum dimensions shown, although possible, may prove to be difficult.

Important: A free space of 3/4 inch (19 mm) is required in front of the window to allow the window to move and relieve during a hard start. The use of the optional fret sets this space with the fret bracket installed.

However, when the fret is not used and the bottom cover is used instead, this space must be added to the depth as a safety precaution. **It is very important to ensure that the area immediately in front of the window is kept clear at all times even when not using a fret.**



Dimensions

Mantel / Hearth Clearances

Combustible Mantel and Hearth Clearances for insert applications must conform to those required for the original solid-fuel burning fireplace in which the RF24 insert is being installed.

NOTE: The glass front and hearth are very hot. Existing wire mesh screens or free standing hearth mounted mesh screens may be used in front of the RF24 insert to help minimize the chance of injury.

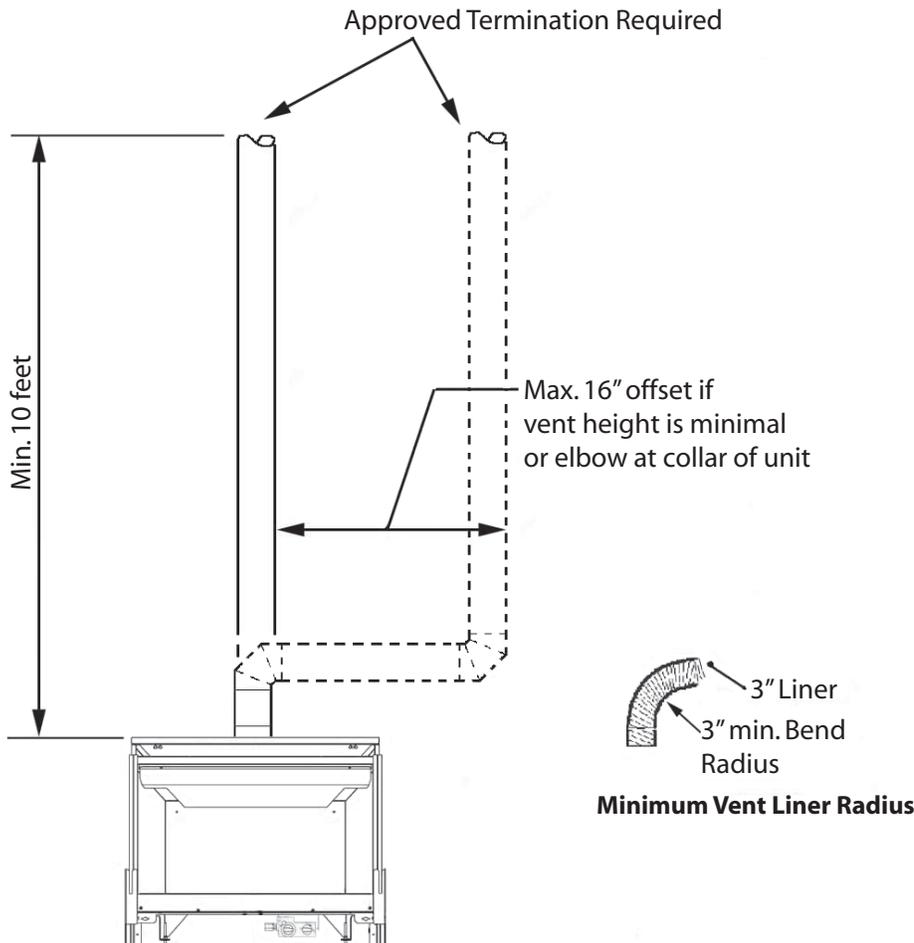
Vent Configurations

Vent Materials

Use a 3" diameter aluminium flex liner approved for gas venting when installing as an insert (existing chimneys). Use a 4" diameter type "B" vent when installing with a RA24ZC Zero Clearance Kit. See separate instructions packaged with the Zero Clearance Kit.

The minimum vent lengths are shown below. For other allowable configurations, refer to the venting tables in the *National Fuel Gas Code Z223.1* or the *Natural Gas and Propane Installation Code B149.1*.

WARNING
Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.



Allowable Vent Configurations

Existing Fireplace Preparation

A few points must be considered before inserting the RF24 into an existing fireplace cavity. Generally, modifications to the existing fireplace that will compromise its integrity are NOT allowed. Components that are bolted or screwed on such as dampers or baffles may be removed to accommodate the installation of the RF24 engine. **Cutting away any sheet metal parts of the existing fireplace to accommodate the installation of the RF24 is prohibited.** Check with local authorities if in doubt.

Clean Fireplace and Chimney

Have the chimney swept and the fireplace cavity including ash dumps and clean-outs cleaned before installing the RF24 heater and vent liners. Any creosote or soot residue remaining in the fireplace cavity, chimney, or clean-out may cause odors or stains once the RF24 insert is installed. Consult with chimney sweep for information on how best to clean.

Existing Dampers

Factory-built, zero-clearance fireplaces will require the damper to be removed in order to install the vent liners. These dampers are usually bolted into place. Dampers in masonry fireplaces must be fixed open and may remain in place.

Ash Retaining Curbs

Some fireplaces (particularly factory-built) have a raised curb at the front edge to retain ashes. Check the dimensions carefully to ensure the RF24 engine will fit behind any raised curb (some curbs may be removed separately from the refractory base). The fret retainers allow for some vertical adjustment of the cast iron fret should the fret need to sit on top of the curb, otherwise the fret will need to be eliminated or adequate room provided behind the curb.

Gas Line Routing

Plan the routing of the gas line before proceeding. Utilize the existing hole for the gas line. If the factory-built fireplace has no access hole, carefully drill an access hole of 1.5 inch (38 mm) or less through the lower sides or bottom of the firebox. The access hole must be plugged with non-combustible insulation after the gas supply line has been installed. See General Dimension drawing for detailed location of gas inlet. Also, take into consideration whether or not a fan or shut-off valve will interfere when planning routing of the gas line.

Existing Glass Doors and Wire Screens

Existing glass doors must be permanently removed prior to installing the RF24 insert. Existing wire fire screens may remain in place or new ones may be added. The RF24 has been tested and approved to operate with wire fire screens in the **closed** or **open** positions.

Combustible Mantels

Combustible mantel clearances must conform to those required for the original solid-fuel fireplace into which the RF24 is being installed.

Paint Existing Refractory Liners

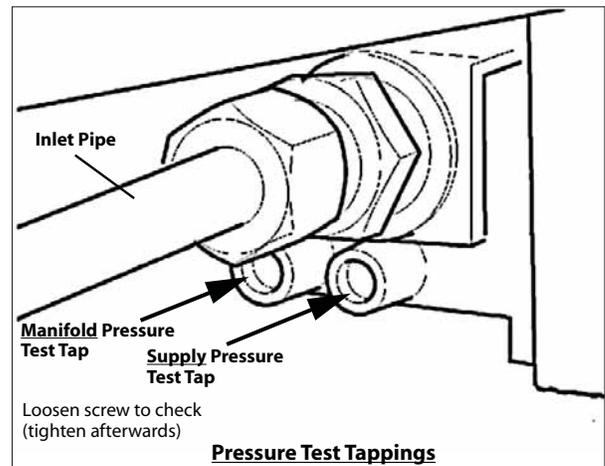
It may be desirable, for visual reasons, to paint the existing refractory liners in black to blend in with the RF24 insert once installed.

Attach Warning Label to Existing Fireplace (label supplied loose with RF24 heater)

Attach the "This fireplace has been converted..." label **to the existing fireplace** using screws or other mechanical means and store any removed parts in back of the existing fireplace for future use.

Supply Gas Installation

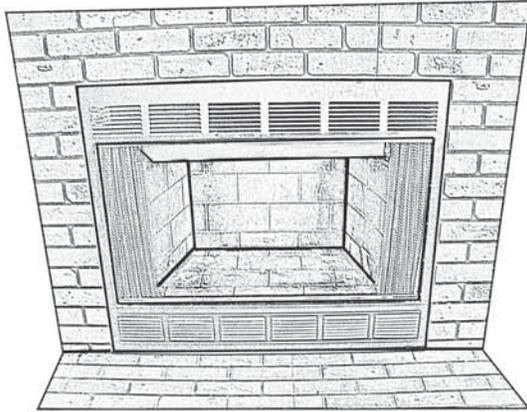
- It's preferable to rough-in the gas line at this point before proceeding with the firebox installation.
 - The gas supply inlet connection is a 3/8" NPT female connector. For detailed location of this connector, see drawing in section *Dimensions*. If a circulating fan or isolating valve is to be installed, adjust the routing of the gas line to suit.
 - Use only new black iron or steel pipes or copper tubing if acceptable—check local codes. Note that in USA, copper tubing must be internally tinned for protection against sulfur compounds.
 - Unions in gas lines should be of ground joint type.
 - The gas supply line must be sized and installed to provide a supply of gas sufficient to meet the maximum demand of the appliance without undue loss of pressure.
 - Sealant used must be resistant to the action of all gas constituents including LP gas. Sealant should be applied lightly to male threads to ensure excess sealant does not enter gas lines.
 - The supply line should include a manual shut-off valve and union to allow the appliance to be disconnected for servicing.
 - Pressure test the supply line for leaks.
 - **The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psig (3.5 kPa).**
 - **The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig (3.5 kPa).**
 - Failure to either disconnect or isolate the appliance during pressure testing may result in regulator or valve damage. Consult your dealer in this case.
 - The minimum supply pressure is given in the section *Specifications* of this manual.
 - All piping and connections must be tested for leaks after installation or servicing. All leaks must be corrected immediately.
- When testing for leaks:
 - Make sure that the appliance is turned off.
 - Open the manual shut-off valve.
 - Test for leaks by applying a liquid detergent or soap solution to all joints. Bubbles forming indicate a gas leak. **Never use an open flame to check for leaks.**
 - Correct any leak detected immediately.
 - The pressure test tapping locations are shown in figure below. A built-in non-adjustable regulator controls the burner manifold pressure. The correct pressure range is shown in the table in section *Specifications* of this manual. The pressure check should be made with the burner alight and at its highest setting. See *Lighting Instructions* section for full operating details.



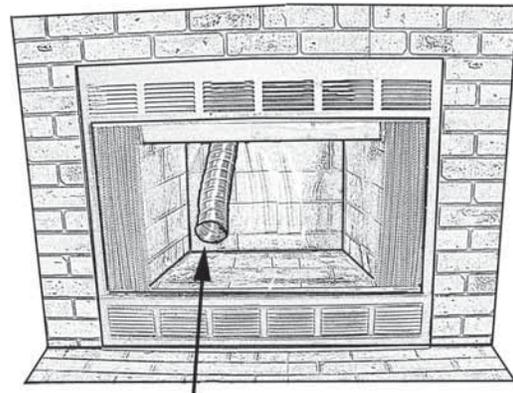
Vent Liner Rough-in

Rough-in the 3" diameter vent liner into existing chimney system being careful not to tear or damage the liner in the process. Leave plenty of liner at the bottom end if the heater will be connected while on the

hearth—see diagram in *Connect Liner to the Firebox* section. When connecting the liner in this manner, **it is best to leave the top termination until later** so the slack liner can be lifted after the insert is in place.



Existing Fireplace

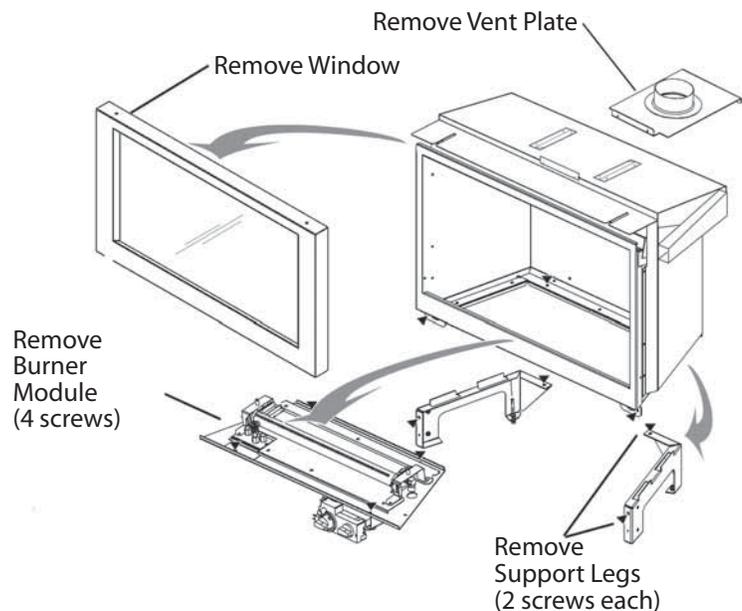
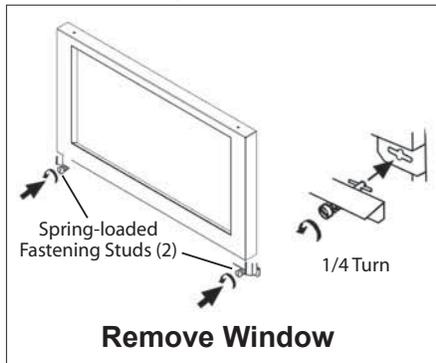


3" dia. Aluminum Liner
Rough-In Liner

Appliance Preparation

The size of the existing fireplace cavity will affect the method of installation. Smaller fireplaces, particularly factory-built zero-clearance fireplaces will require the RF24 firebox to be disassembled then reassembled inside the fireplace. Plan your particular installation accordingly.

1. Unpack appliance.
2. Remove window.
3. Remove log pack from firebox.
4. Strip firebox down by removing:
 - a. Burner Module (4 screws),
 - b. Vent plate (2 screws);
 - c. Support Legs (2 screws per leg) (required when inserting into small fireplaces only)



Firebox Installation

Connection of liner to firebox

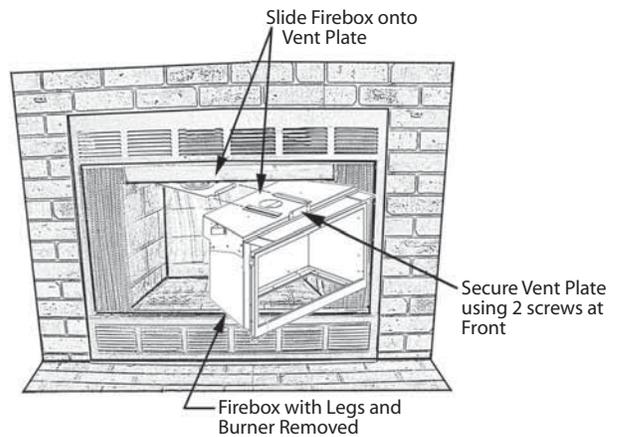
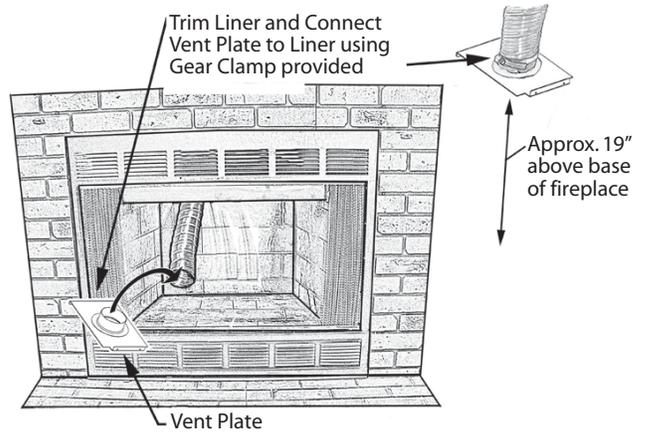
The vent plate will ultimately locate approximately 19" above the base of the fireplace once inserted.

1. Trim the liner accordingly so it will not be too long once the firebox is raised.
2. Connect the liner to the vent plate using the gear clamp provided.
3. Stretch the liner down and slide the firebox onto the vent plate.
4. Secure the vent plate to the firebox using 2 screws through the front tab.

NOTE: When installing into larger fireplaces, the RF24 may be connected to the liner while sitting out on the hearth or inside the fireplace without removing the vent plate.

The support legs may also be left in place if the fireplace is large enough.

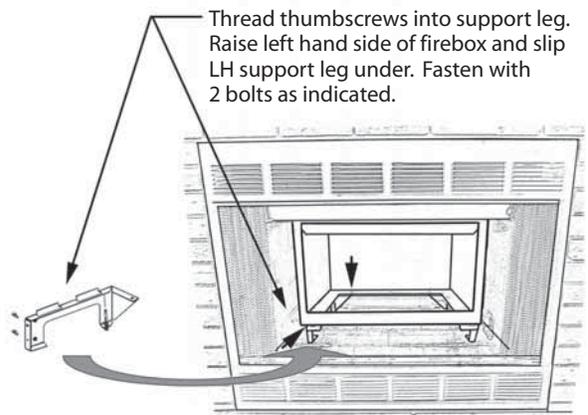
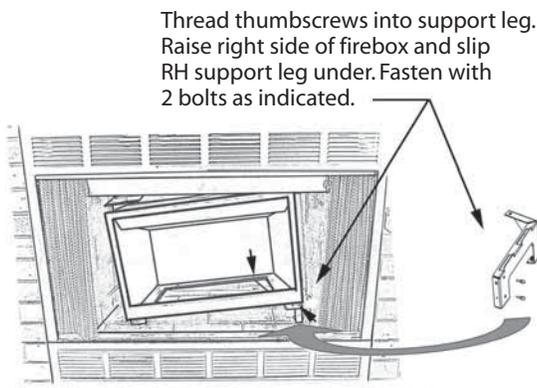
If the liner is connected to the firebox on the hearth, it will be necessary to pull the slack liner up from the top of the chimney after the firebox is installed.



Reinstallation of support legs (if removed)

With the firebox recessed behind the smoke curtain of the existing fireplace, raise the firebox and place the individual support legs under the firebox. Placing a temporary shim under the firebox, such as a 2" x 4",

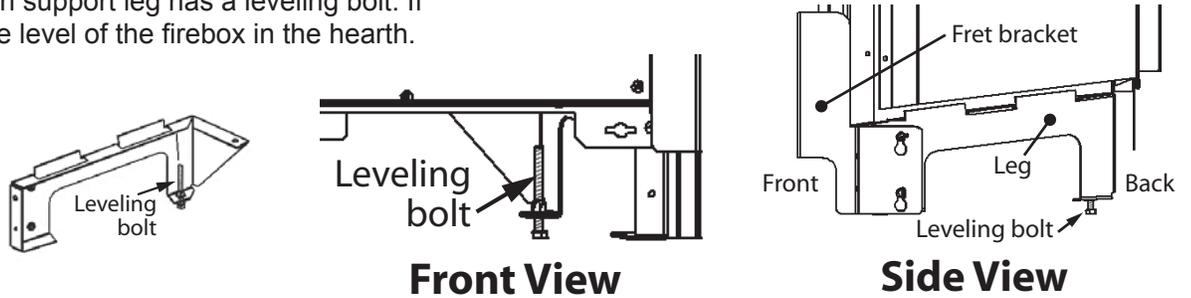
may help while positioning the support legs. Tabs are provided on the support legs to help position them. Fasten the support legs at the points indicated by the arrows using the bolts provided (2 per side).



Firebox Installation

Leveling the firebox in the hearth

The backside of each support leg has a leveling bolt. If necessary, adjust the level of the firebox in the hearth.

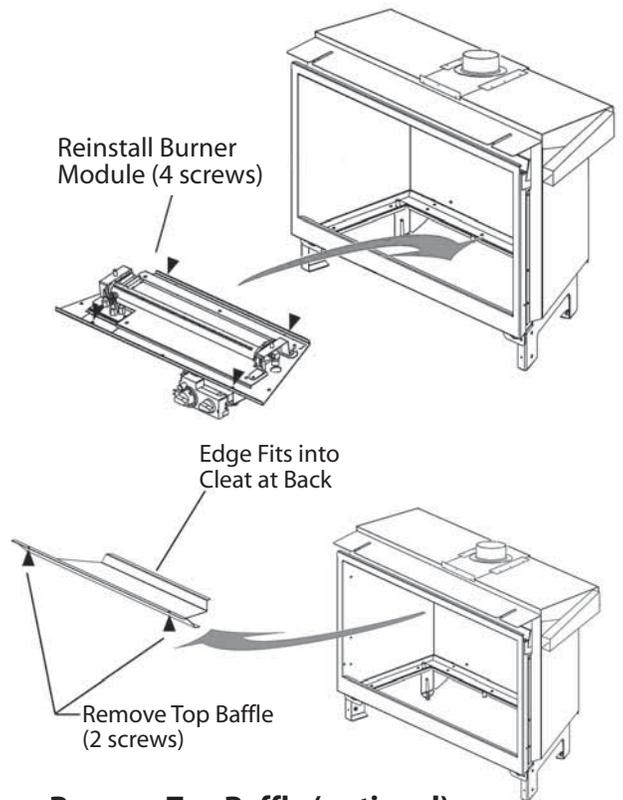


Burner Module Reinstallation

Note: If the circulating fan is to be installed it should be done at this point before installing the burner module. See instructions packaged with the fan for details of the fan installation.

Reinstall the burner module using the 4 screws removed previously.

Note: The upper baffle may be removed to gain more room for the screwdriver to install the rear screws.

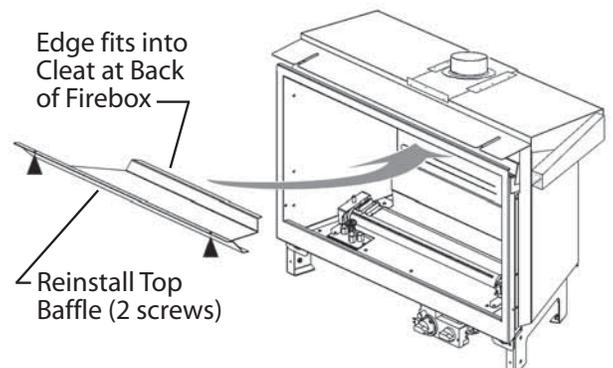


Remove Top Baffle (optional)
(to provide space for a screwdriver)

Gas Line Connection and Fire Unit Testing

Connect the gas line to the burner module. Check for leaks, purge the line, and test-fire the unit before installing the window or proceeding with the remainder of the install—see *Lighting Instructions* section.

Reinstall the Top Baffle (if removed)

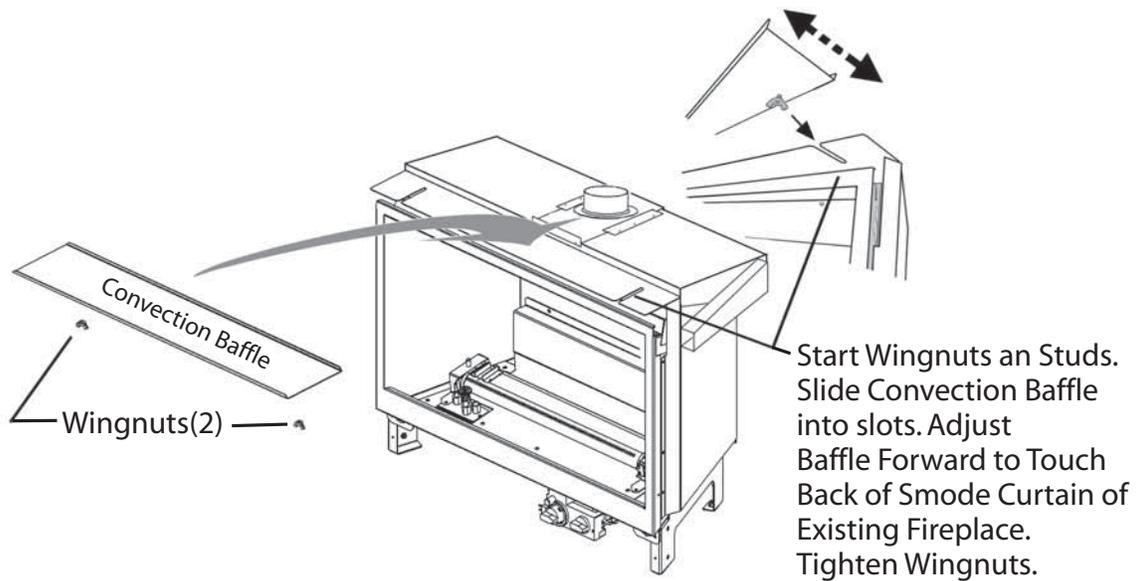


Firebox Installation

Top Convection Baffle Installation

Position the firebox as far back as possible within the existing fireplace to allow ample space at front for the fret and to allow convection air to flow under the smoke curtain of the existing fireplace.

Position the top convection baffle with the threaded studs pointing downwards into the slots at the top of the firebox. Slide the convection baffle **as far forward as possible**, angled down if possible, to force the air under the smoke curtain, and tighten the wing nuts.

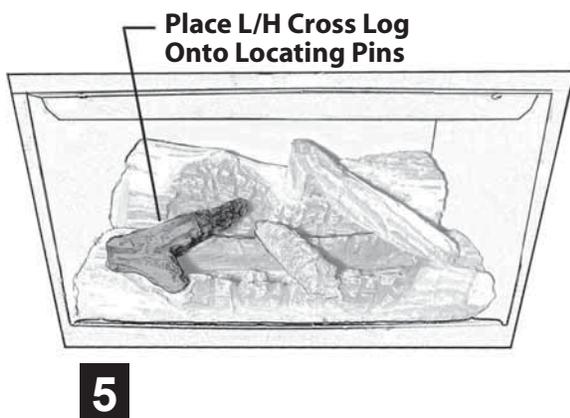
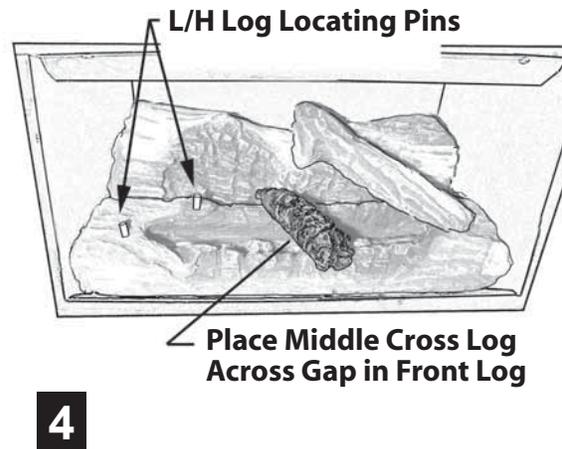
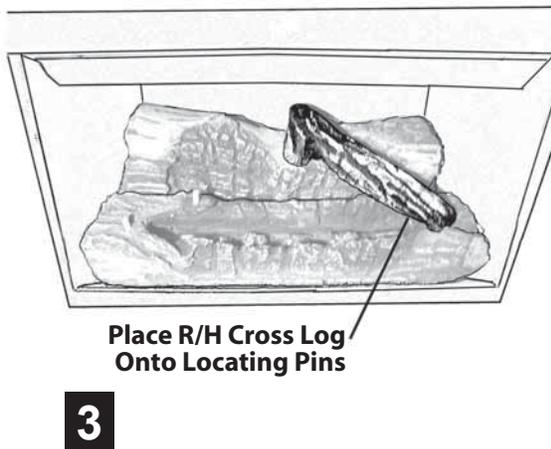
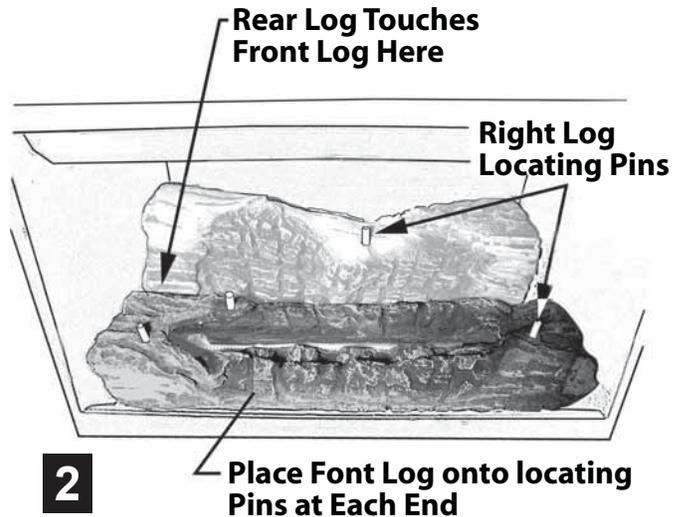
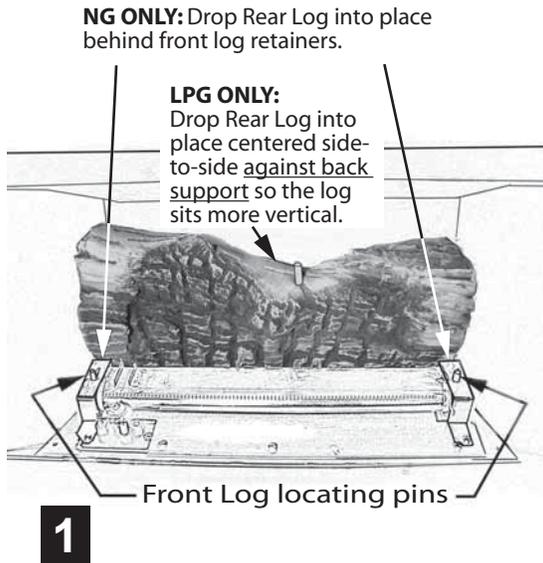


Ceramic Logs Installation

Carefully remove the ceramic logs from the packaging taking care not to damage them. Install the logs as described below.

Please note that the Rear Log will have a different position depending of the gas type.

The position of the logs is critical to insure the good performance of the appliance.

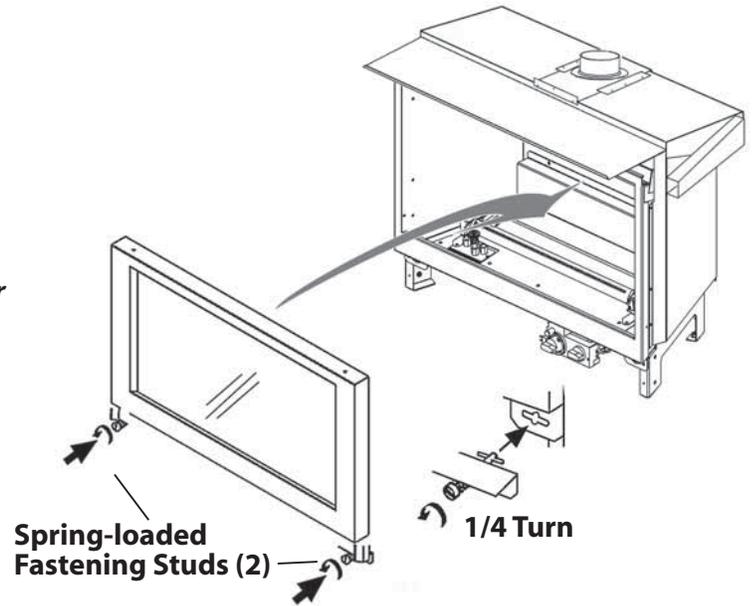


Window Refitting and Checking

Hook the window over the top edge of the firebox, and fasten the bottom two spring loaded bolts by pushing in and turning 90 degrees.

If broken, the window may only be replaced as a complete unit as supplied by the manufacturer.

Note: To remove the window, the optional bottom cover or the cast iron fret and fret retainers will need to be removed first—see sections *Optional Cast Iron Fret Installation* or *Optional Bottom Cover Installation*.



Remote Control Installation

CAUTION

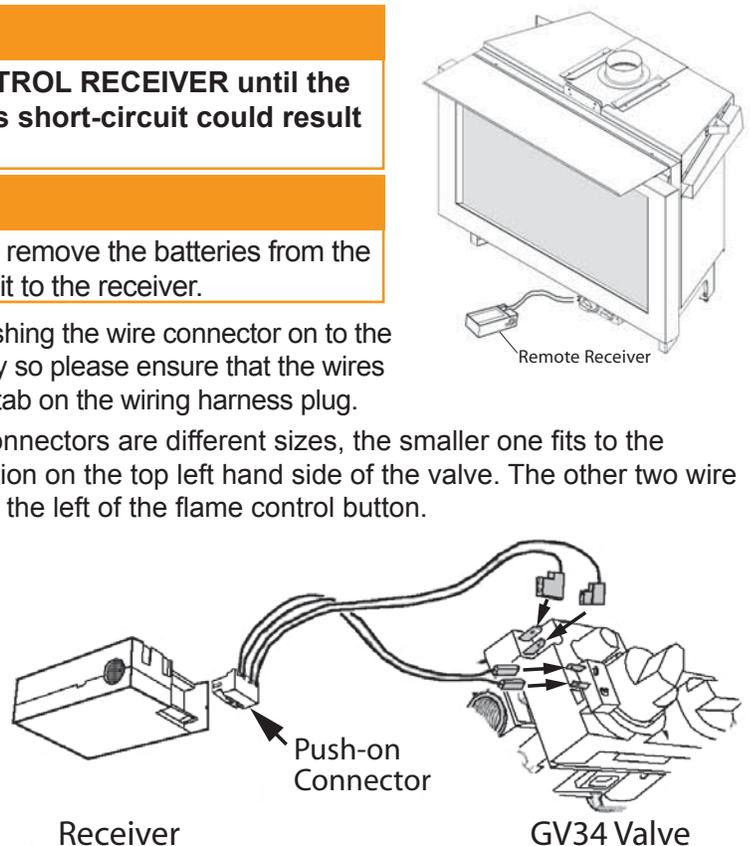
DO NOT PUT BATTERIES IN THE REMOTE CONTROL RECEIVER until the wires are connected to the burner control unit as short-circuit could result in the destruction of the electrical components.

CAUTION

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

1. Connect the wiring harness to the receiver box, by pushing the wire connector on to the receiver circuit board. The plug will only go on one way so please ensure that the wires are pointing up and slot in the board is in line with the tab on the wiring harness plug.
2. Connect wires as shown. Please note that the “L” connectors are different sizes, the smaller one fits to the lower connection and the larger one the top connection on the top left hand side of the valve. The other two wire connectors can be fitted to either terminal located to the left of the flame control button.
3. Remove the remote control receiver lid.
4. Fit four AA 1.5 V alkaline batteries.
5. Place the remote control receiver on the base of the fireplace beside the valve.
6. Fit the 9 V alkaline battery to the handset transmitter.

Remote control operating instructions are on pages 18–19 of this manual.



Operation Check and Aeration Adjustment

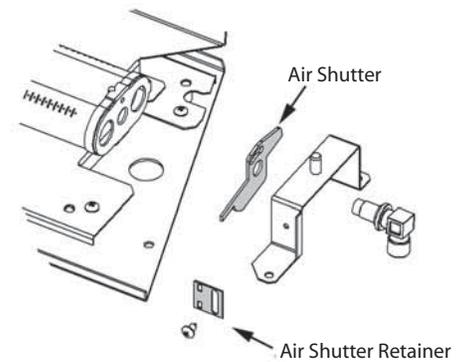
Turn the fireplace up and down using the remote control to confirm that the full range of inputs is achieved.

Light the fire and allow to warm up for 10–15 minutes to evaluate the flame picture. The burner is equipped with an adjustable air shutter to control primary aeration. See figures below. The shutter is factory-set at an aeration gap, which will give optimum performance for the vast majority of installations. In a few unusual installations, flame picture may be improved by adjusting the aeration. The need for adjustment should be determined only by operating the appliance with the ceramic fuel effects and window installed.

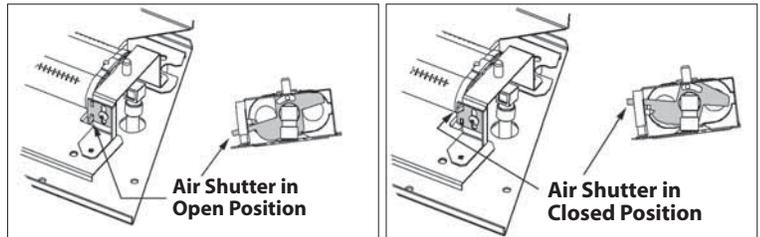
Increasing aeration will cause the flame to appear more transparent and blue making the ceramic fuel effects glow more.

Decreasing aeration will cause the flames to appear more yellow or orange making the fuel effects glow less.

Too little aeration may result in black carbon forming and dropping into the firebox.

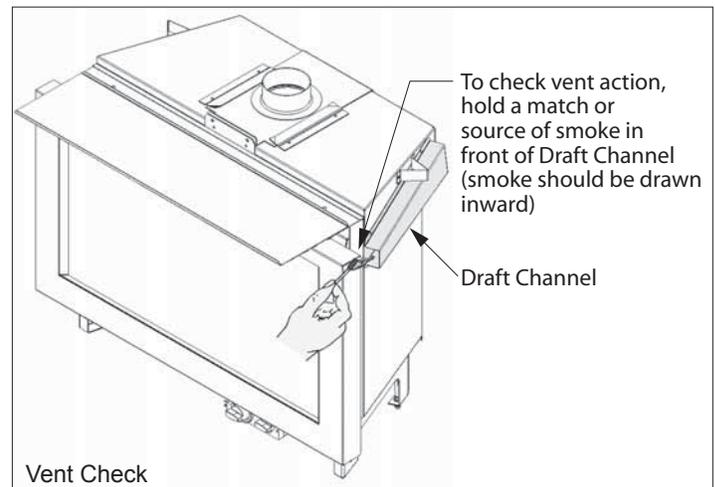
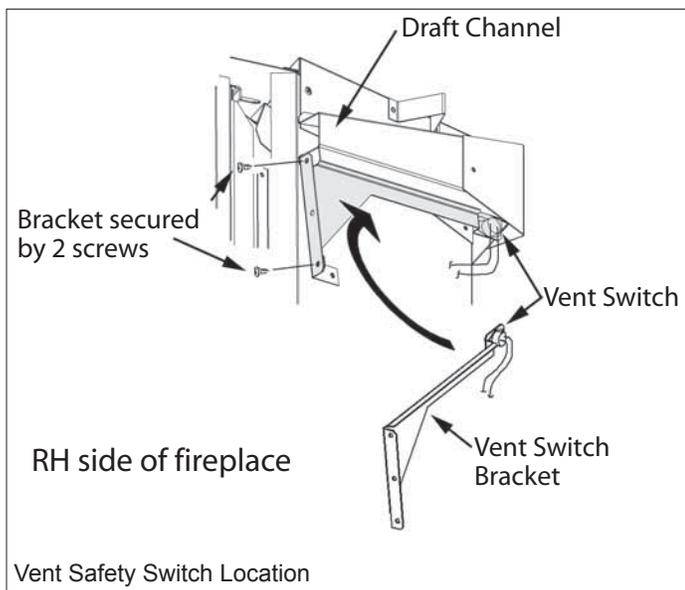


Air Shutter Components



Vent Check

This unit is equipped with a vent safety switch, located on the right side of the draft hood, which will shut the burner off if the vent is not functioning properly. Use a match or a source of smoke at the front of the draft channel to check direction of flow in the vent. Access to the vent switch for servicing is shown below.



Optional Cast Iron Fret Installation

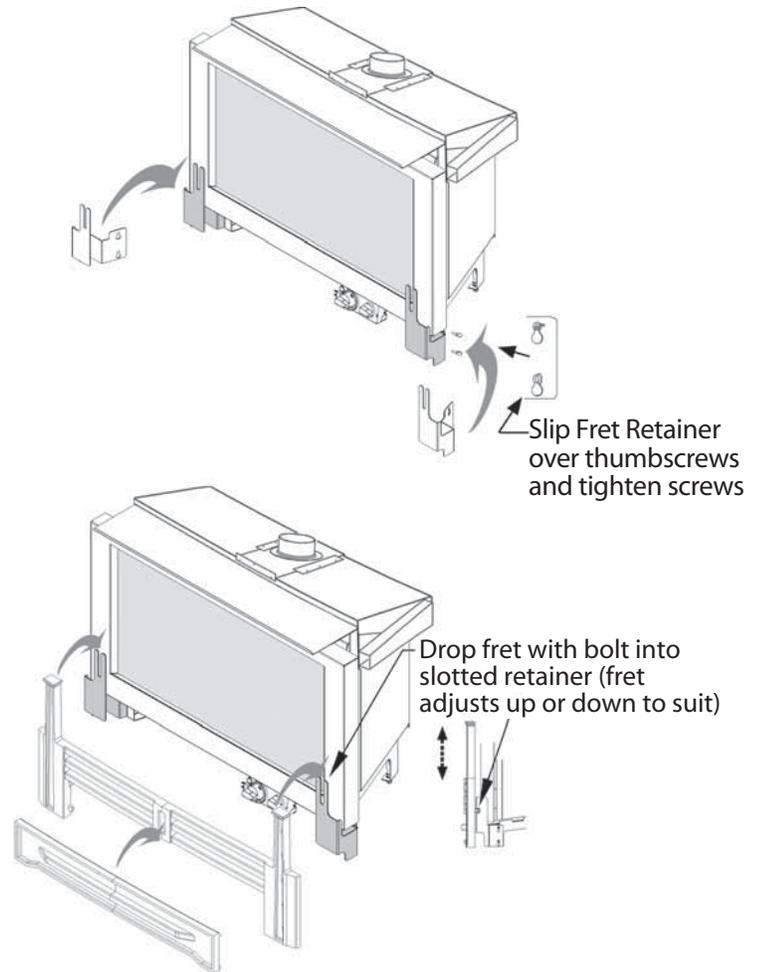
Important: The fret retainer brackets are designed to maintain the required space in front of the window to allow the window to move and relieve during a hard start. ***It is very important to ensure this area in front of the window is kept clear at all times.***

Fret Retainer Brackets Installation

Screw 2 thumbscrews into sides of each support leg if not done previously when support legs were installed. Fit the slotted holes in the fret retainers over the thumbscrews, push fret retainers downwards and tighten screws.

Cast Iron Fret Installation

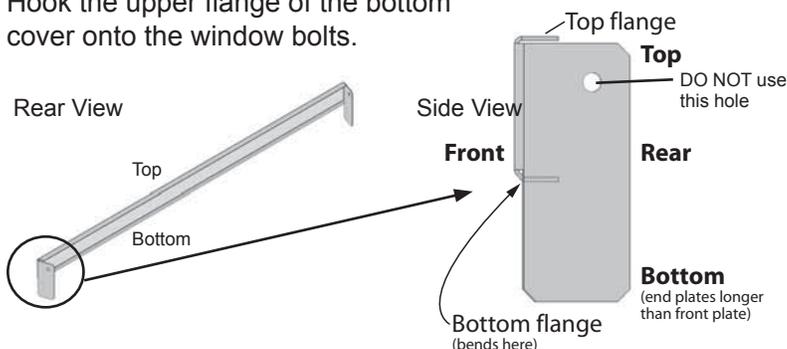
Adjust screw heads on back of fret to the thickness of the retainer bracket and drop the fret into place while guiding the screw heads into the slots in the bracket. Clip the ash pan cover onto the fret.



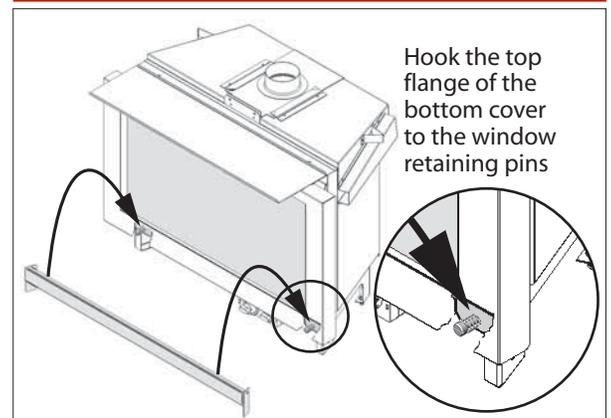
Optional Bottom Cover Installation

Important: When the bottom cover is used instead of a fret, a space is required in front of the window to allow the window to move and relieve during a hard start. ***It is therefore very important to ensure that an area of 3/4 inch (19 mm) in front of the window is kept clear at all times.***

Hook the upper flange of the bottom cover onto the window bolts.



An area of 3/4 inch (19 mm) in front of the window MUST be kept clear at all times!



Owner's Information

CAUTION

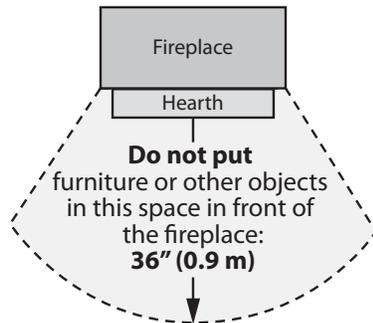
Your fireplace becomes very hot when operating. Avoid placing decorating objects sensitive to heat within 36 inches (0.9 m) around it.

Performance of LPG appliances may be affected by the quality of commercial gas supplied in your area.

Warranty Card at the back of this manual.



Please read the **Safety and Warning Information** section at the beginning of this manual.



Operating Your Fire

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 the burner control knob is kept pushed in at the PILOT position. See full lighting instructions on page 25 of this manual.

Cleaning

WARNING

DO NOT TOUCH THE GLASS WHILE IT IS HOT!
Let the fireplace cool first before cleaning it.

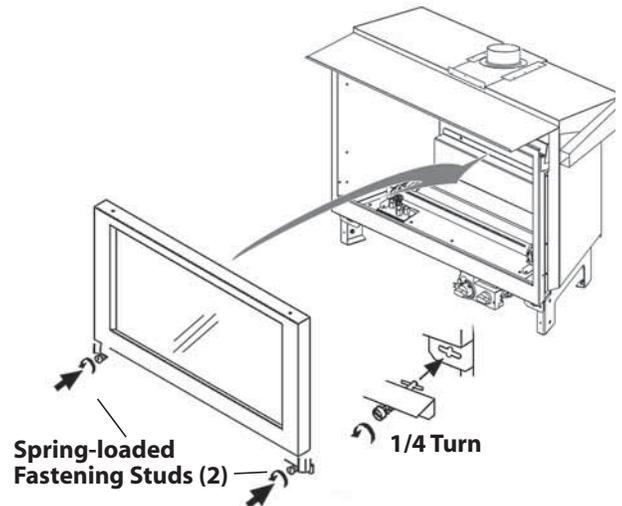
It will be necessary to clean the glass periodically. During startup, condensation, which is normal, forms on the inside of the glass and causes dust, lint etc. to cling to the glass surface. Initially paint, while curing, may deposit a slight film on the glass. We therefore recommend that, during the first few weeks of use, the glass be cleaned two or three times with non-abrasive common household cleaners and warm water. Ammonia based cleaners should not be used. Subsequently, the glass should be cleaned two or three times a season depending on the circumstances.

Do not clean the glass while it is hot.

Always securely replace the window before lighting. **If broken, the glass pane may only be replaced as a complete window unit as supplied by the manufacturer.**

It is necessary to remove the cast iron fret and brackets or the bottom cover before removing the window—see previous installation sections.

The window can be removed for cleaning by rotating the two fastening studs at the bottom corners 90 degrees to release, and swinging the bottom of the window unit outwards to unhook the top edge.

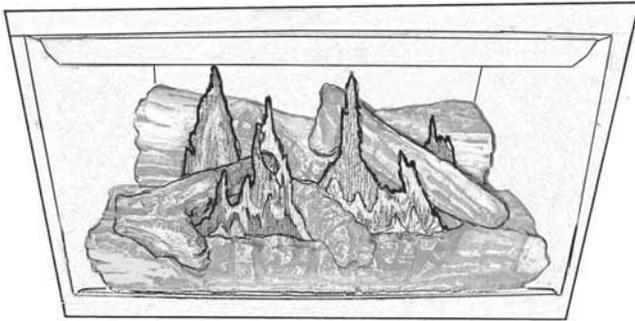


Dust, etc. can be brushed from the ceramic fuel effects and firebox walls after removing the front unit and opening the window. Dust etc. can also be removed from the burner using a soft brush after removing the ceramic fuel effects. **When cleaning, make sure that no particles are brushed into the slots in the burner.**

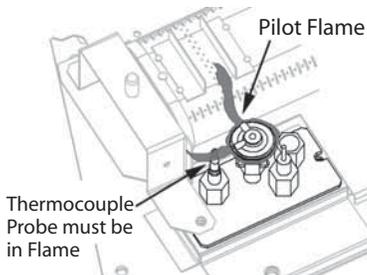
Owner's Information

Checks

A periodic check of the pilot and burner flames should be made. Check after the fire has been on for at least 30 minutes. The pilot flame must cover the tip of the thermocouple probe. The main burner flame pattern will vary from appliance to appliance depending on the type of installation and climatic conditions—see images below.



Correct Flame Picture



The appliance area must always be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.

Inspect the vent terminal outdoors regularly to make sure that, snow, leaves, bushes, trees, etc, do not obstruct it.

Examine the vent system and terminal regularly. We recommend annually.

Batteries

CAUTION

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

Low batteries signal: see page 21.

The remote control receiver of the appliance uses four alkaline 1.5 V AA batteries and the handset uses one 9 V alkaline battery. Batteries should last one to two seasons, depending on usage. Removing the batteries in the off-season will extend the battery life. Should the batteries loose power, the control may be operated by manually turning the control knob at the valve.

To replace the batteries in the remote control receiver:

1. The receiver is located to the left of the valve and it is retained to the firebox by a *Velcro* tab. Grab the receiver and pull it out from its location.
2. Slide and remove the receiver cover.
3. Replace the 4 AA alkaline batteries.
4. Replace the cover.
5. Put the receiver back in its position pushing it in so it attaches to the *Velcro* tab.

Servicing

If any attention is required for your appliance, contact your supplier 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.

Vent Safety Switch

This appliance is equipped with a vent safety switch which, when activated, will turn off the burner and pilot if the vent is blocked, disconnected, or if there is excessive down draught.

If the safety switch is activated, wait for it to cool off before trying to light the appliance again. The safety switch will cool off and reset itself automatically after 25 to 30 minutes.

In the event that the safety switch is activated again, contact a qualified service technician for inspection.

Should the safety switch require replacement, only use parts supplied by Miles Industries.

Remote Control Operation

Your fireplace remote control helps you get the comfort, convenience and aesthetics you want from your gas fireplace. The remote controls your fireplace in different ways.

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.

Setting the time

The first thing to do is to set the time.

1. With your thumb, hold down **both** the **AUTO** and **TIMER** buttons until **F** flashes. Let go.
2. Note the digital clock on the bottom right hand corner. The **▲** button sets the hour; the **▼** button sets the minutes. Set the time.
Note: You must start setting the time while the **F** is flashing. If it stops flashing, go back to 1.
3. The display shows °C/24-hour or °F/12-hour. To change the temperature/hour display, press on the **AUTO** button while the display flashes.
4. Let go and wait until the flashing stops. The remote shows the time you set. It also shows the current temperature.

Setting the temperature

Use this setting when you come in and want to enjoy a specific temperature.

1. Push the **AUTO** button until a number and **F** flash. Let go.
2. While it is still flashing, push the **▲** and **▼** buttons to the temperature you want. Let go.

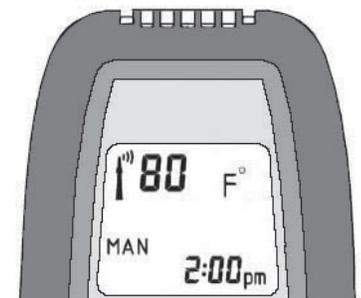
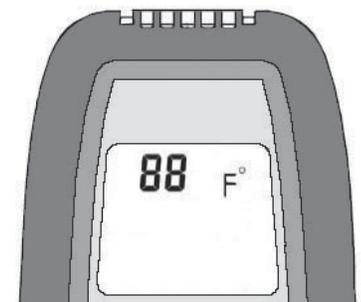
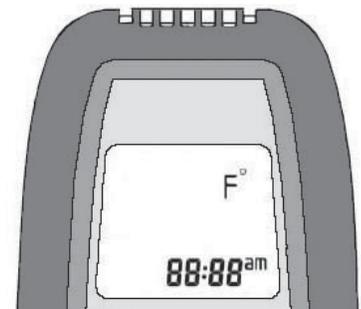
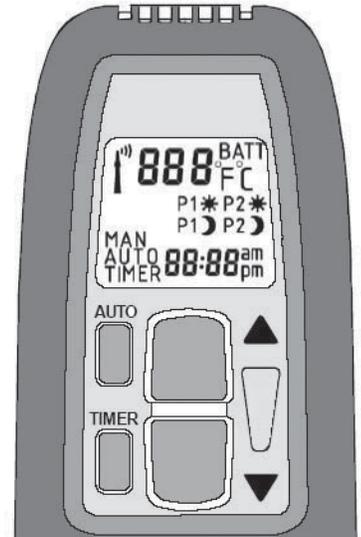
Your fireplace will reach that temperature and the remote will check the temperature every five minutes, adjusting the amount of fuel needed to give you a steady, even heat.

Setting the flame

Use this setting when you want a particular flame level. For instance, you want to watch flames burn at their highest level and you don't mind if the room is too hot.

1. To raise the flame, press and hold the **▲** button until the flame gets to the desired level. Let go.
2. To lower the flame, press and hold the **▼** button until the flame gets to the desired level. Let go.

The **flame level** will remain just as you set it.



Remote Control Operation

Programming time and temperature

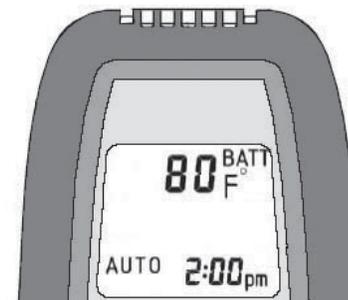
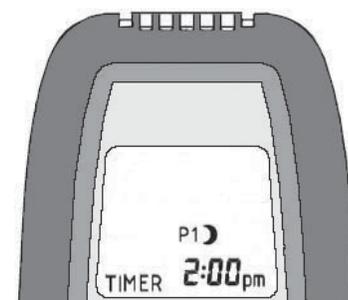
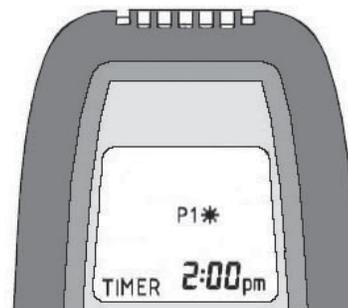
You can set your fireplace to come on before you wake up and turn off after you leave and then, turn on again just before you come home and turn off after going to bed.

You can leave it like this for the heating season.

1. Decide what temperature you want your fireplace to be at. Also, decide what time you want your fireplace to turn on and off. Finally, decide what time you want it to come back on and off in the afternoon or evening. For the first few times you set the timer, it's handy to write these times down.
2. Set the temperature (just as you did in the section *Setting the temperature*.)
3. Press the **TIMER** button and hold it until **P1*** appears and flashes. Let go. While flashing, push the buttons ▲ (hour) and ▼ (minutes) to set the time at which you want your fireplace to turn on in the morning.
4. Press the **TIMER** button and hold it until **P1** ☾ appears and flashes. Let go. While flashing, push the buttons ▲ (hour) and ▼ (minutes) to set the time at which you want your fireplace to turn off when you leave.
5. Press the **TIMER** button and hold it until **P2*** ☀ appears and flashes. Let go. While flashing, push the buttons ▲ (hour) and ▼ (minutes) to set the time at which you want your fireplace will turn back on in the afternoon.
6. Press the **TIMER** button and hold it until **P2** ☾ appears and flashes. Let go. While flashing, push the buttons ▲ (hour) and ▼ (minutes) to set the time at which you want your fireplace to turn off in the evening.
7. That is all you have to do. Your fireplace will give you steady, even heat at the temperatures and times you set.

Note: If you want to set your fireplace for only one time on and off, set **P2** ☀ and **P2** ☾ for the same times as **P1** ☾. The remote will record the **P1** ☾ off time for both **P2** times.

To temporarily override the timer setting, just press **AUTO** or ▲ and ▼ to go back to manual settings. Press **TIMER** to go back to your settings.



Battery Replacement

When your remote control displays **BATT**, you need to replace the battery with a new 9 volt alkaline battery—6LR61/MN1604.

CAUTION

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

Options

Fuel

RF24BN—Natural Gas Installations

RF24BP—Propane Gas Installations

Accessories (sold separately)

Decorative Cast Iron Frets

RA24CV—Contemporary, Vintage Iron Finish

RA24AV—Avant-Garde, Vintage Iron Finish

RA24TB—Traditional, Black Finish

1225VFB—Ventana Fret, Black Finish

Venting

Pipe—Generic 3" dia. flexible aluminum liner approved for gas venting into existing fireplace and chimneys or 4" dia. type "B" vent with zero clearance kit option.

Circulating Fan

555CFK—Circulating Fan Kit, thermally actuated, variable Speed, with 6'-0" c/w grounded cordset.

Conversion Kits

RA24NK—Converts from LPG to NG

RA24PK—Converts from NG to LPG

Zero Clearance Kit

RA24ZC

Outer Cast Plate

715CVI (use with *RA24ZC* kit only)

Screened Fronts (use with *RA24ZC* kit only)

RA24DS—Draw Screen

RA24FS—Fixed Screen

743FVI—Double Door FenderFire

744FVI—Single Door FenderFire

Hearth Gate (optional)

Hearth gates such as Kidco's are available at retail stores carrying safety products for children.

Lighting Instructions

FOR YOUR SAFETY READ BEFORE LIGHTING

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

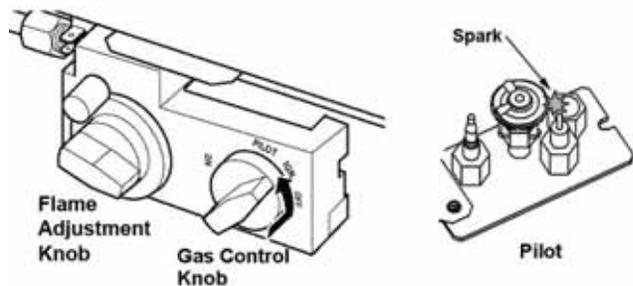
- A. This appliance has a pilot, which must be lighted by hand. When lighting the pilot, follow these instructions exactly. To save energy, turn the pilot off when not using the appliance.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because 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 control knobs. Never use tools. If the controls will not push in or turn by hand, don't try to repair them, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control, which has been under water.

LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information above.
 2. Set the flame adjustment knob as far clockwise ↻ as possible*.
 3. Turn the gas control knob clockwise ↻ to OFF.
- NOTE:** The knob cannot be turned from PILOT to OFF unless it is pushed in partially. Do not force.
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, go to the next step.



5. Find the pilot. It is at the left side of the firebox viewed through slotted hole in front log.
6. Push in and turn the gas control knob counterclockwise until resistance is felt just before the "IGN" position.
7. Keep pushed in for a few seconds to allow gas to flow then, keeping knob depressed, turn to "PILOT" to light pilot. Hold knob in for a further 5 seconds then release. The knob should pop back out. Pilot should remain lit. If pilot goes out repeat steps 3 through 7.
 - If knob does not pop out when released, stop and immediately call your service technician or gas supplier.
 - If pilot lights but will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
8. When pilot is lit, partially depress the knob and turn to "ON" position (Burner alight).
 - Do not leave knob set between "PILOT" and "ON".
9. Set the flame height to desired setting*.

TO TURN OFF GAS TO APPLIANCE

1. Set the flame adjustment knob as far clockwise ↻ as possible*
2. Push in gas control knob slightly and turn clockwise ↻ to "OFF". Do not force.

* The flame height can be increased or decreased by depressing the remote control hand set button.

Warranty

If you have a problem with this unit, please contact your dealer or supplier immediately. Under no circumstances should you attempt to service the unit in any way by yourself. The warranties in paragraphs 1 and 2 are provided only to the first purchaser/user of this unit, are not transferable and are subject to the conditions and limitations in paragraphs 3, 4 and 5. Please review the conditions and limitations carefully and strictly follow their requirements.



1. Extended Warranty Coverage

For a period of up to ten (10) years, Miles Industries Ltd., (the "Company") or its appointed distributor will at its option pay the initial purchaser for the repair of, or will exchange the following parts or components which are found to be defective in material or workmanship under normal conditions of use and service:

Part or Component	Defect Covered	Maximum Warranty Period
Exterior steel casing	Corrosion	10 years
Glass	Loss of structural integrity	10 years
Cast iron parts	Corrosion	10 years
Firebox and heat exchanger	Corrosion (but not discoloration) causing loss of structural integrity	10 years

2. Two-Year Parts Warranty

In addition, for two (2) years from the date of purchase, the Company, at its option, can repair or exchange all parts and components not listed above but that are found to have a *bona fide* defect in material or workmanship under normal conditions of use.

3. Conditions and Limitations

- a) The warranty registration card must be completed by the initial owner and returned to the Company within 90 days of purchase.
- b) Installation and maintenance must be performed by an authorized and trained dealer in accordance with the Company's installation instructions.
- c) This warranty is void where installation of the unit does not conform to all applicable codes including national and local gas appliance installation codes and building and fire codes.
- d) The owner must comply with all operating instructions.
- e) The Company is not responsible for the labor costs to remove defective parts or re-install repaired or replacement parts.
- f) The first purchaser or user of the unit will be responsible for any shipping charges for replacement parts as well as travel time incurred by the dealer to perform the warranty work.
- g) This warranty applies to non-commercial use and service and is void if it is apparent that there is abuse, misuse, alteration, improper installation, accident or lack of maintenance to the unit.
- h) This warranty does not cover damage to the unit through:
 - i) Improper installation, operational or environmental conditions.
 - ii) Inadequate ventilation in the area or competition for air from other household equipment or appliances.
 - iii) Damage due to chemicals, dampness, condensation, or sulphur in the fuel supply lines which exceeds industry standards.
- i) This warranty does not cover glass, log breakage or damage to the unit while in transit.
- j) The Company does not allow anyone to extend, alter or modify this warranty and assumes no responsibility for direct, indirect or consequential damages caused by the unit. State or provincial laws where the first purchaser or user resides may provide specific rights to extend this warranty and, if so, the Company's sole obligation under this warranty is to provide labor and/or materials in accordance with those laws.

4. Discharge of Liability

After two (2) years from the date of purchase, the Company may, at its option, fully discharge all obligations under this warranty by paying to the first purchaser/user the wholesale price of any defective parts.

5. No Other Warranty

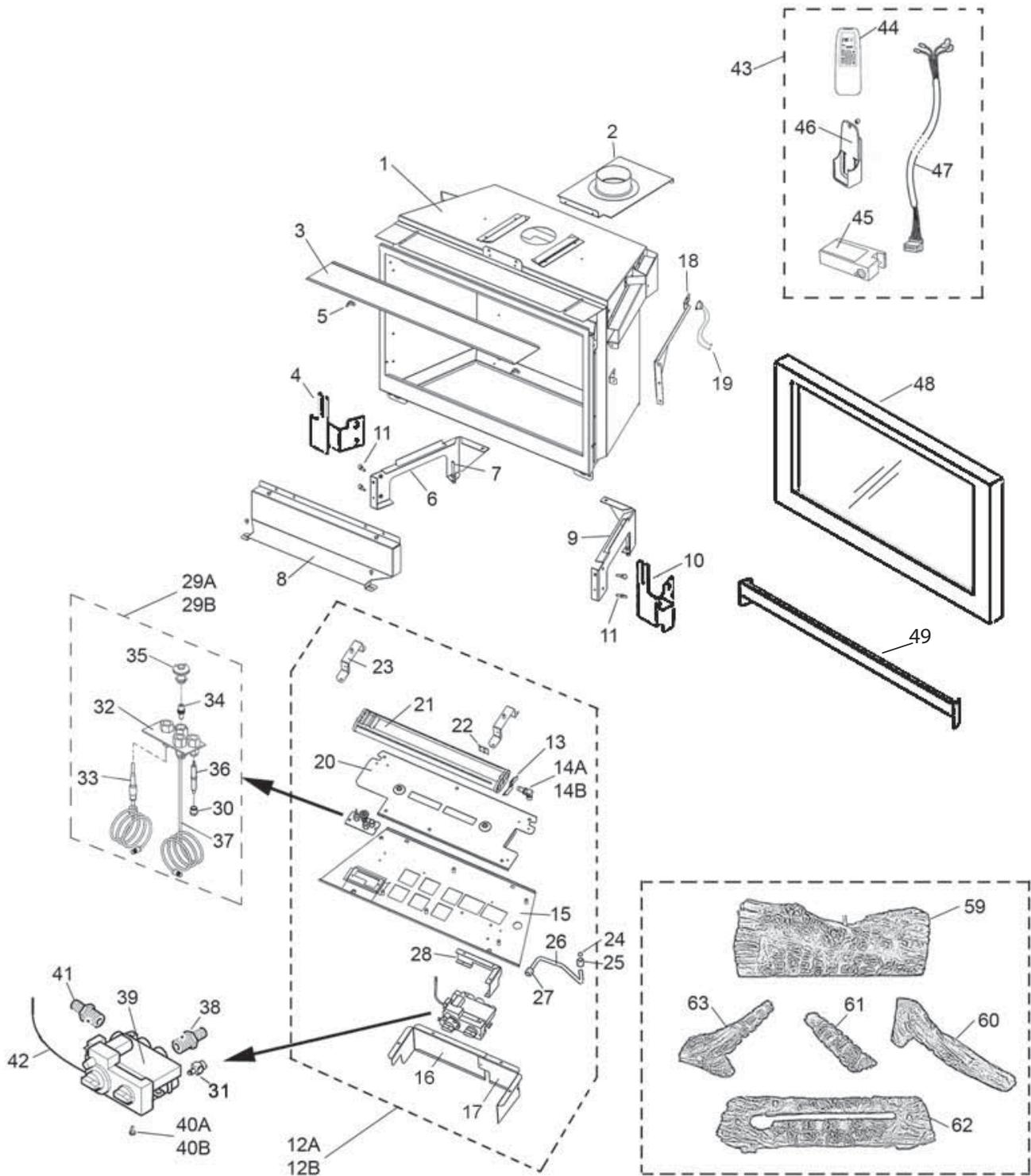
All obligations to repair this unit are defined in this warranty. Some states or provinces may specifically mandate additional warranties on the part of manufacturers, but in the absence of such specific legislation, there is no other warranty or obligation expressed or implied.

Parts

KEY	DESCRIPTION	PART NUMBER
1	Firebox Assembly	4000634AH
2	Vent Plate	4001010
3	Convection Baffle	4001009
4	LH Fret Support	4002837BY
5	Wing Nuts (2)	4000741
6	LH Leg	4000662
7	Screw M5 x 50mm, hex hd (2)	4000242
8	Log Support	4000621
9	RH Leg	4000663
10	RH Fret Support	4002836BY
11	Thumbscrew #10-32 x 1/2" (4)	4000753
12a	Burner Tray Assy NG	4000598
12b	Burner Tray Assy LPG	4000877
13	Air Shutter	4000657
14a	Injector Elbow NG 82-580	720A580
14b	Injector Elbow LPG 92-200	9730013
15	Burner Tray	4000580
16	Burner Scoop part 1	4000880
17	Burner Scoop part 2	4001065
18	Vent Switch Assy	4000204
19	Vent Switch Bracket	4001008
20	Burner Support Plate	4000579
21	Burner	4000599
22	Shutter Slider	4000759
23	Front Log Brackets (2)	4000739
24	Olive 8 mm	420K432
25	Olive Nut	220K567
26	Pipe, Valve to Main Burner (incl. olive & nuts)	4000600
27	Tube Nut	220K558
28	Valve Mount	4000141
29a	190 Series Pilot Assy NG	4000727
29b	190 Series Pilot Assy LPG	4000728
30	Electrode Nut	720A200
31	Interrupter Block	4000202
32	Pilot Bracket 190 Series	4000729
33	Thermocouple	4000061
34a	Pilot Injector NG #51	4000735
34b	Pilot Injector LPG #30	4000736
35	2-Flame Pilot Hood	4000730
36	Electrode	720A543

KEY	DESCRIPTION	PART NUMBER
37	Pilot Tube	4000732
38	Straight Connector	220K891
39	Maxitrol Valve GV34	4000056
	Valve Cover	4000801
	Servo Motor	4000802
40a	Minimum Rate Screw #185 NG	4000300
40b	Minimum Rate Screw #125 LPG	4001058
41	Inlet Connector	4000746
42	Ignition Wire	n/a
43	Remote Control Kit	4000754
44	Transmitter	n/a
45	Receiver	n/a
46	Wall Bracket	n/a
47	Wiring Harness	n/a
48	Window Assembly	4002860
49	Bottom Cover	4003005BY
58	Log Set Retrofire	4000603
59	Rear Log	4000688
60	RH Log	4000691
61	Center Log	4000689
62	Front Log	4000692
63	LH Log	4000690

Parts



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Thank You ...

For purchasing a Valor by Miles Industries. Your new radiant gas heater is a technical appliance that must be installed by a qualified dealer.

Please circle where appropriate - ask your installer if in doubt: Information provided will be used for customer records only.



Model: RF24XB NG (natural gas) LPG (propane)				Serial No:			
Fret code/description (e.g. RA24TB Traditional Black Fret):							
Purchase date (mm-dd-yyyy):							
Home Owner Name:							
Address:							
City:			Province/State:			Postal Code/Zip:	
Phone: ()			Email Address:				
Store Type:		Fire shop	Hardware	Contractor	Other		
Purchase Decision:		Male	Female	Both			
Age:	Under 30	30-39	40-49	50-59	60+		
Heard of this product through:							
	Friend	Brochure	Advertising	Mailing	Store	Internet	Other
Installation Type:							
	New home	Renovation	Other				
Reason for Purchase:							
Performance	Flame Appeal	Design	Control	Previous owner	Recommendation	Price	Other
Dealer Name:							
Address:							
City:			Province/State:			Postal Code/Zip:	
Phone: ()							

Cut out page, fill information, and mail to Miles Industries Ltd.

Online Warranty registration at www.valorfireplaces.com



Tape Shut



Fold here



Postage
needed

Miles Industries Ltd.
190 - 2255 Dollarton Highway
North Vancouver, BC V7H 3B1
Canada

Online Warranty registration at www.valorfireplaces.com

Were you given all documentation and manuals for your product? YES NO



Thank you for choosing a Valor Product