

INSTALLATION INSTRUCTIONS

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THIS MANUAL. FOR ASSISTANCE OR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.

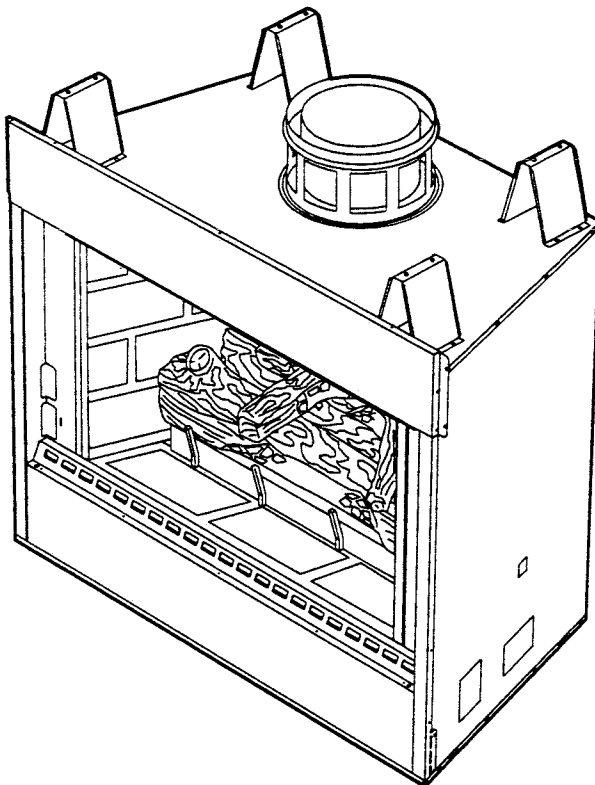
WARNING: THESE KBV-38 SERIES FIREPLACES ARE VENTED DECORATIVE GAS APPLIANCES. DO NOT BURN WOOD OR OTHER MATERIAL IN THESE APPLIANCES.

Installation And Operating Instructions

*For Vented Decorative
Gas Appliances*

*Millivolt Models
KBV-38RMN
KBV-38RMP*

*Electronic Models
KBV-38REN
KBV-38REP*



IAS Report No. L2970016

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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
 - Do not try to light any appliance.
 - Do not touch any electrical switch.
 - Do not use any phone in your building.
 - 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.

Due to high temperatures, the appliance should be located out of traffic and away from furniture or drapes. Do not place clothing or other materials on or near the appliance.

PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE.

SUPERIOR.
The Fireplace Company

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

INTRODUCTION

The RM (millivolt) appliances are designed to operate on either natural or propane gas. A millivolt gas control valve with piezo ignition system provides safe, efficient operation.

The RE (electronic) appliances are designed to operate on either natural or propane gas. An electronic direct spark ignition system provides safe, efficient operation. External electrical power is required to operate these units.

These appliances comply with National Safety Standards and are tested and listed by IAS (Report No. L2970016) to ANSI Z21.50b - 1996 (in Canada, CAN/CGA-2.22-M96, and CAN/CGA-2.17-M91) as vented gas fireplaces.

Installation must conform to local codes. In the absence of local codes, installation must comply with the current National Fuel Gas Code, ANSI Z223.1. (In Canada, the current CAN-1 B149 installation code.) Electrical wiring must comply with the National Electrical Code, ANSI/NFPA No. 70 - (latest edition). (In Canada, the current CSA C22.2 Canadian Electric Code.)

DO NOT ATTEMPT TO ALTER OR MODIFY THE CONSTRUCTION OF THE APPLIANCE OR ITS COMPONENTS. ANY MODIFICATION OR ALTERATION MAY VOID THE WARRANTY, CERTIFICATION AND LISTINGS OF THIS UNIT.

GENERAL INFORMATION

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

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

These appliances are designed to operate on natural or propane gas only. The use of other fuels or combination of fuels will degrade the performance of this system and may be dangerous.

Input of appliance is 24,000 BTU/HR.

Do not use these appliances if any part has been under water. Immediately call a qualified, professional service technician to inspect the appliance and to replace any parts of the control system and any gas control which have been under water.

Test gage connections are provided on the front of the millivolt gas control valve (identified A for the manifold side and E for inlet pressure). A 1/8" NPT test gage connection is provided on the electronic gas control valve adjacent to the outlet to the main burner.

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

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

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 1/2 psig (3.5 kPa).

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 pressures in excess of 1/2 psig (3.5 kPa).

These appliances must not be connected to a chimney or flue serving a separate solid fuel burning appliance.

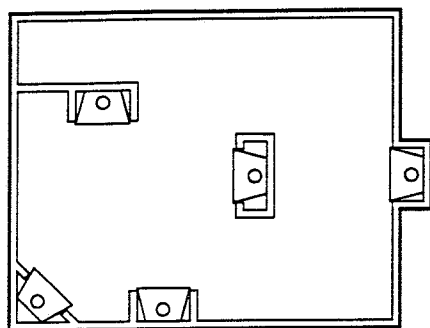
Do not place clothing or other materials on or near this appliance.

WARNING: FAILURE TO COMPLY WITH THE INSTALLATION AND OPERATING INSTRUCTIONS PROVIDED IN THIS DOCUMENT WILL RESULT IN AN IMPROPERLY INSTALLED AND OPERATING APPLIANCE, VOIDING ITS WARRANTY. ANY CHANGE TO THIS APPLIANCE AND/OR ITS OPERATING CONTROLS IS DANGEROUS. IMPROPER INSTALLATION OR USE OF THIS APPLIANCE CAN CAUSE SERIOUS INJURY OR DEATH FROM FIRE, BURNS, EXPLOSION OR CARBON MONOXIDE POISONING.

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning are similar to the flu with headaches, dizziness and/or nausea. If you have these signs, obtain fresh air immediately. Turn off the gas supply to the appliance and have it serviced by a qualified professional, as it may not be operating correctly.

WARNING: B-VENT APPLIANCES ARE NOT DESIGNED TO OPERATE IN NEGATIVELY PRESSURED ENVIRONMENTS (PRESSURE WITHIN THE HOME IS LESS THAN PRESSURES OUTSIDE). SIGNIFICANT NEGATIVELY PRESSURED ENVIRONMENTS CAUSED BY WEATHER, HOME DESIGN, OR OTHER DEVICES MAY IMPACT THE OPERATION OF THESE APPLIANCES. NEGATIVE PRESSURES MAY RESULT IN POOR FLAME APPEARANCE, SOOTING, DAMAGE TO PROPERTY AND/OR SEVERE PERSONAL INJURY. DO NOT OPERATE THESE APPLIANCES IN NEGATIVELY PRESSURED ENVIRONMENTS.

LOCATION



Typical Locations

Figure 1

In selecting the location, the aesthetic and functional use of the appliance are primary concerns. However, vent system routing to the exterior and access to the fuel supply are also important. Consideration should be given to traffic ways, furniture, draperies, etc., due to elevated surface temperatures. The location should also be free of electrical, plumbing or other heating/air conditioning ducting.

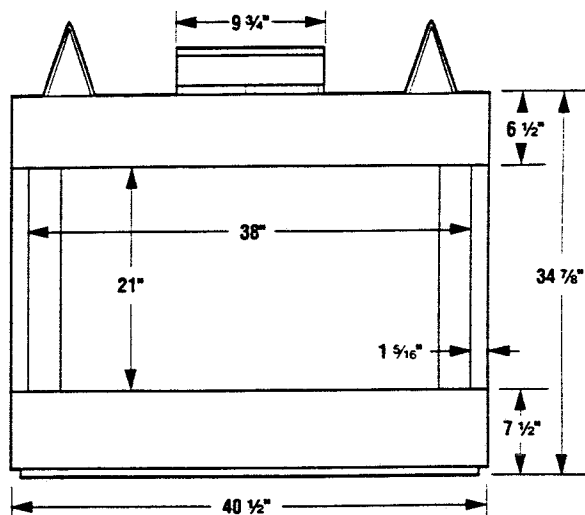
The appliance should be mounted on a fully supported base extending the full width and depth of the unit. The appliance may be located on or near conventional construction materials. However, if installed on combustible materials, such as carpeting, vinyl tile, etc., a metal or wood barrier covering the entire bottom surface must be used.

The KBV-38 appliance may be used for bedroom installations in the United States and are listed accordingly. These units may not be installed in bedrooms in Canada.

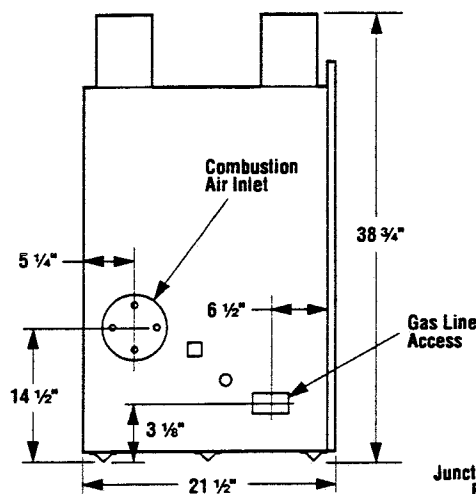
CLEARANCES

Minimum clearance to combustibles for the appliance is as follows: sides and back - $\frac{1}{2}$ ", floor - 0", adjacent wall - 0", ceiling - $37\frac{1}{2}$ ".

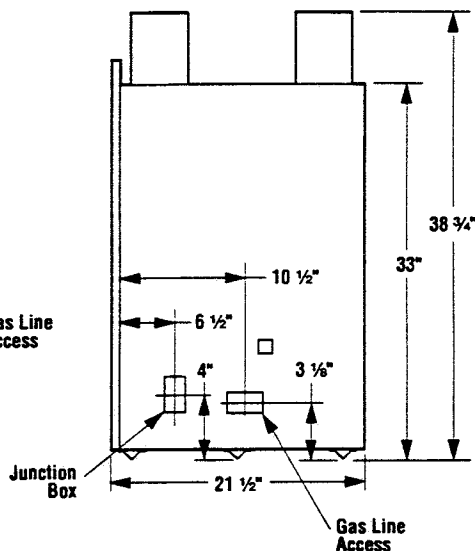
APPLIANCE SPECIFICATIONS



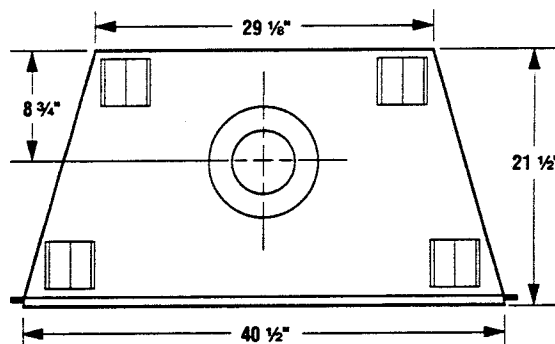
Front



Left Side



Right Side



Top View

Figure 2

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE

FRAMING SPECIFICATIONS

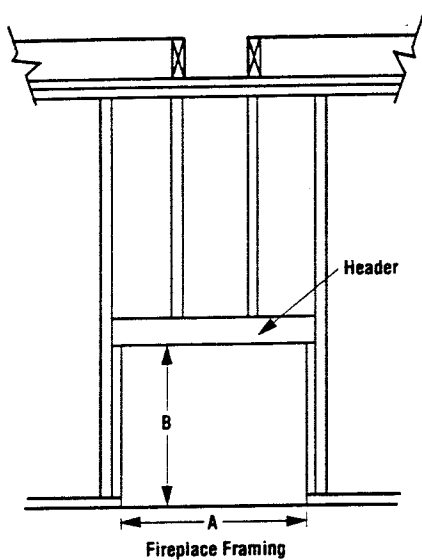


Figure 3

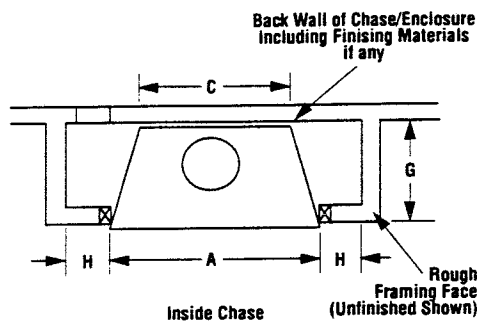


Figure 4

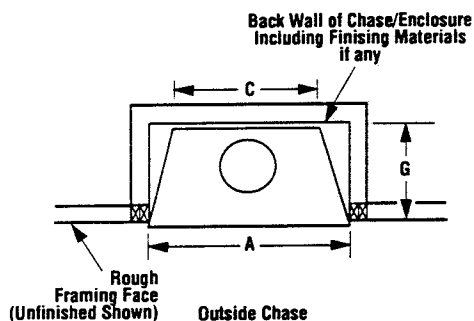


Figure 5

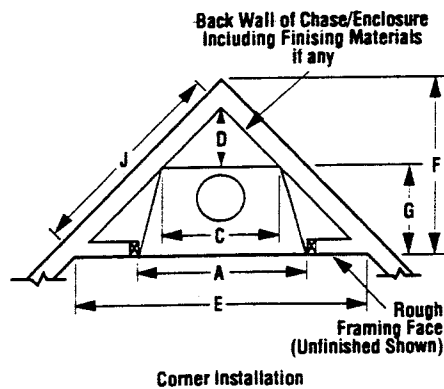


Figure 6

Framing Dimensions
for KBV-38 Fireplaces

A	40 3/4"
B	39"
C	29 1/8"
D	14 1/2"
E	71 3/4"
F	35 7/8"
G	21 3/8"
H	8"
J	50 3/4"

Venting

Gas Vent Rule – Gas vent caps that are located 8' or more from a portion of a building which extends at an angle greater than 45° upward from the horizontal may terminate in accordance with Table 1 (Figure 7), provided that in no case shall any discharge opening on the cap be less than 2' (610 mm) horizontally from the roof surface.

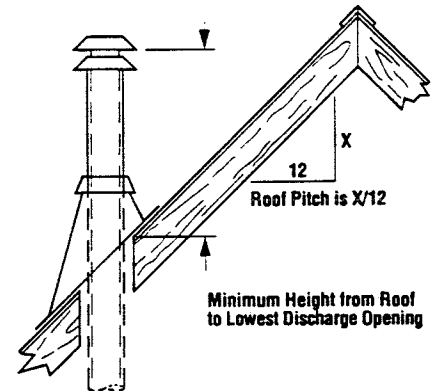


Figure 7

ASSEMBLY STEPS

The typical sequence of installation follows, however, each installation is unique resulting in variations to those described.

1. Construct the appliance framing.
2. Route gas supply line to appliance location.
3. Position the appliance.

Roof Slope	Minimum Height from Roof to Lowest Discharge Opening
Flat to 6/12	1' 0"
Over 6/12 to 7/12	1' 3"
Over 7/12 to 8/12	1' 6"
Over 8/12 to 9/12	2' 0"
Over 9/12 to 10/12	2' 6"
Over 10/12 to 11/12	4' 0"
Over 11/12 to 12/12	5' 0"
Over 14/12 to 16/12	6' 0"
Over 18/12 to 20/12	7' 6"
Over 20/12 to 21/12	8' 0"

For SI units: 1 foot = 0.305 m

Table 1

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

4. Install the vent system and exterior termination.
5. Field wire and install operating control switch.
6. Make connection to gas supply.
7. Install the logs and rockwool.
8. Checkout appliance operation.
9. Adjust burner to ensure proper flame appearance.

PRE-INSTALLATION NOTES

The fireplace may be installed directly on a combustible floor or raised on a platform of an appropriate height. Do not place fireplace on carpeting, vinyl or other soft floor coverings. It may, however, be placed on flat wood, plywood, particle board or other hard surfaces. Be sure fireplace rests on a solid continuous floor or platform with appropriate framing for support and so that no cold air can enter the room from under the fireplace.

The fireplace may be positioned and then the framing built around it, or the framing may be constructed and the fireplace positioned into the opening.

Usually, no special floor support is needed for the fireplace, however, to be certain:

1. Estimate the total weight of the fireplace system and surround materials such as brick, stone, etc., to be installed.
2. Measure the square footage of the floor space to be occupied by the system, surrounds and hearth extensions.
3. Note the floor construction, i.e. 2x6's, 2x8's or 2x10's, single or double joists, type and thickness of floor boards.
4. Use this information and consult your local building code to determine if you need additional support.

If you plan to raise the fireplace and hearth extension, build the platform assembly then position fireplace and hearth extension on top. Secure the platform to the floor to prevent possible shifting.

INSTALLING THE FIREPLACE

Step 1. Frame appliance enclosure as illustrated in *Figures 3 through 7* on page 4.

Note: The framed depth, 21 3/8" (543 mm) from a framed wall, must always be measured from a finished surface. If a wall covering such as drywall is to be attached to the rear wall, then the 21 3/8" (543 mm) must be measured from the drywall surface. It is important that this dimension be exact.

If the appliance is to be elevated above floor level, a solid continuous platform must be constructed.

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

Consult all local codes.

Step 2. Route gas line (*Figure 8*) using techniques and materials prescribed by local and/or national codes. Only use gas line of 1/2" or greater diameter to allow full gas volume to the gas fireplace. Undue pressure loss will occur if the pipe is too small.

When rigid pipe is used, an ANSI approved manual shut-off valve and union must be installed upstream of the fireplace.

Ensure that a sediment trap is installed in the existing gas line, if not, install a sediment trap upstream to prevent moisture and contaminants from passing through trap to the appliance controls and burners. Failure to do so could prevent the appliance from operating reliably.

An external regulator must be used on all propane (L.P.G.) heaters to reduce the supply tank pressure to 13" w.c. (maximum). Any copper tubing used to supply propane (L.P.G.) from the tank must be internally tinned.

IMPORTANT: HOLD GAS VALVE SECURELY TO PREVENT MOVEMENT WHEN CONNECTING TO INLET GAS LINE

WARNING: CONNECTING DIRECTLY TO AN UNREGULATED PROPANE (L.P.G.) TANK MAY CAUSE AN EXPLOSION.

All appliances have a 3" long 3/8" NPT nipple installed at the valve. To quickly and easily complete the gas line routing, use the gas flex line kit, Model _GFLV.

Step 3. Slide the fireplace into prepared framing or position fireplace in its final position and frame later.

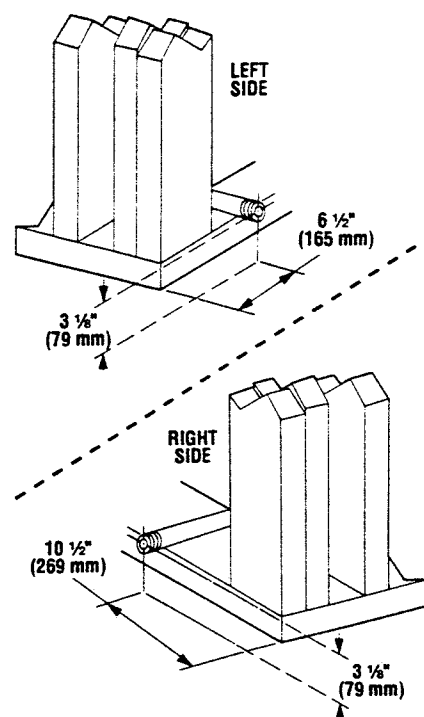


Figure 8

Ensure the side nailing tabs are bent out perpendicular to the front face (Refer to *Figure 10*). There are two nailing tabs per side.

Refer to fireplace drawings and specifications on pages 3 and 4 for framing dimensions and details. Framing header may be positioned directly on the fireplace top spacers.

IMPORTANT: UNDER NO CIRCUMSTANCES CAN THE FIREPLACE TOP SPACERS (FIGURE 2) BE REMOVED OR MODIFIED, NOR MAY YOU NOTCH THE HEADER TO FIT AROUND OR BE INSTALLED LOWER THAN THE SPACERS. THE HEADER MAY BE IN DIRECT CONTACT WITH THE TOP SPACERS BUT MAY NOT BE SUPPORTED BY THEM.

Fireplace may be anchored to floor. Bend down four (4) anchor tabs located at the base of the fireplace and secure to the floor by nailing with 8d nails (*Figure 9*).

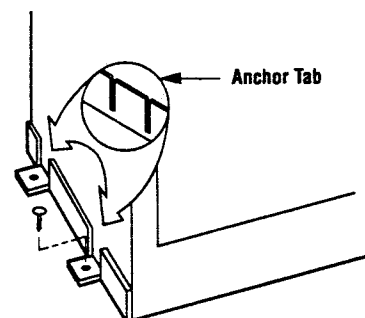


Figure 9

Fireplace should be secured to side framing members using nailing tabs. Use 8d nails (Figure 10).

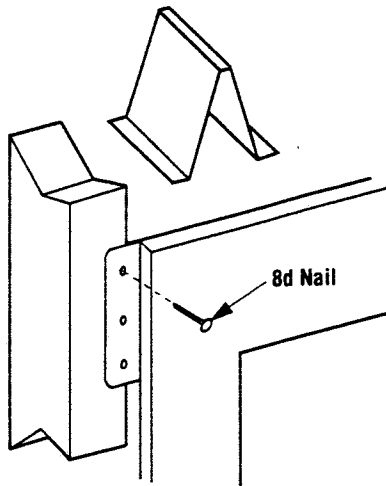


Figure 10

Note: The nailing tabs and the area directly behind the nailing tabs are exempt from the clearances described on the fireplace clearance label.

Step 4. Connect a 6" (127 mm) Type B vent system to the appliance flue collar with two (2) No. 8 sheet metal screws and install the remainder of the Type B vent to the outside. Minimum overall height of the vent system and appliance without an offset must be 12' (3.7 m).

Install the B-vent system in accordance with the vent manufacturer's instructions. All allowable vent configurations and offsets are permitted with the following restrictions; the vent run must include three (3) feet of vertical height before any offset is used, the total height of any vent run, including an offset, must be fifteen (15) feet minimum (Figure 11).

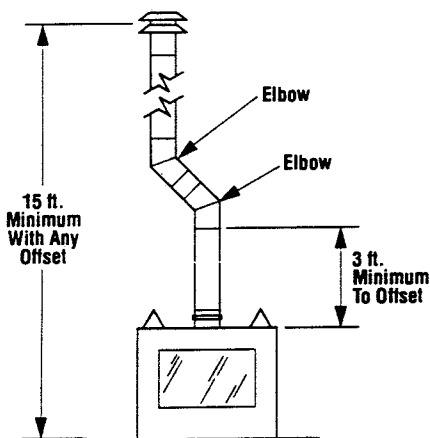


Figure 11

CAUTION: THIS APPLIANCE CANNOT BE VENTED HORIZONTALLY.

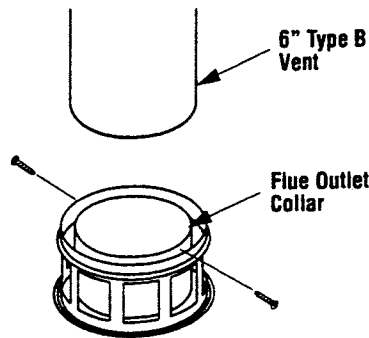


Figure 12

Note: Refer to the vent manufacturer's installation instructions for variations of venting techniques. If common venting of several units is contemplated, it should be discussed with an architect and the local Building Department.

Step 5. Field Wiring – Refer to Section A for KBV-38 millivolt appliances and Section B for KBV-38 electronic appliances.

A. Millivolt Wiring – The gas valve has been set in place and has been pre-wired at the factory. No additional wiring is required unless the optional wall switch or optional remote control kit, Model RCK, is to be installed. Locate the optional wall switch or optional Model RCK in the desired location and connect the millivolt wire (Refer to Figure 13).

CAUTION: DO NOT CONNECT THE WALL SWITCH TO A 120V POWER SUPPLY.

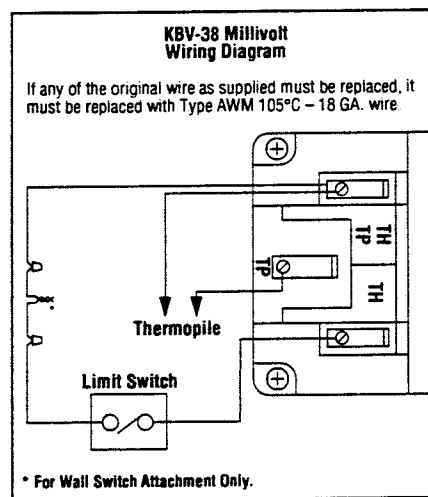


Figure 13

Note: Optional wall switch not supplied. If the optional wall switch is not installed, the ends of the 18' coiled wire must be connected with a wire nut (not supplied) for the appliance to operate.

B. Electronic Wiring – The KBV-38 appliance must be connected to the main power supply. To install, route a 3-wire 120V 60Hz power supply to the appliance junction box and ground. Locate and install a low voltage (24V) wall switch (not supplied) in the desired location. Connect the low voltage wire to this switch (refer to Figure 14).

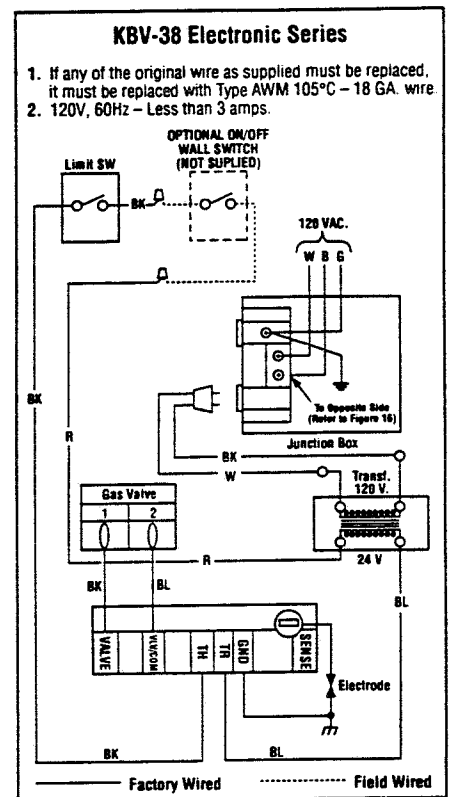


Figure 14

1. Route a 3-wire 120V 60Hz power supply line to the appliance junction box wires and ground (Figures 14 and 16).

2. After wiring is complete, replace the appliance junction box cover and secure with the hex head screws previously removed.

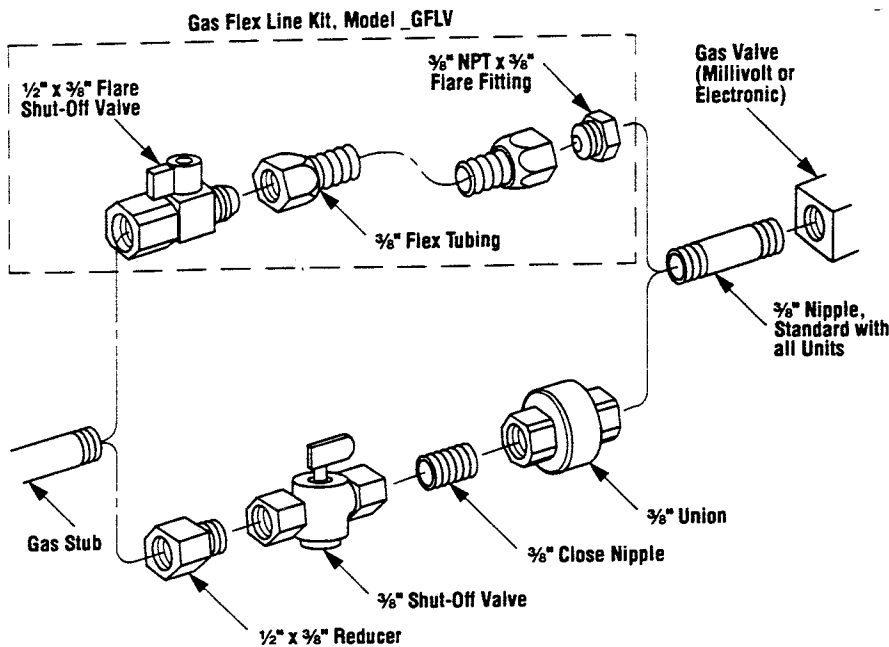


Figure 15

Note: Supply wires may be alternatively connected to the outlet using the screw terminals, however the black supply wire must be wired to a terminal that is opposite (across the outlet) the point where the white supply wire is connected.

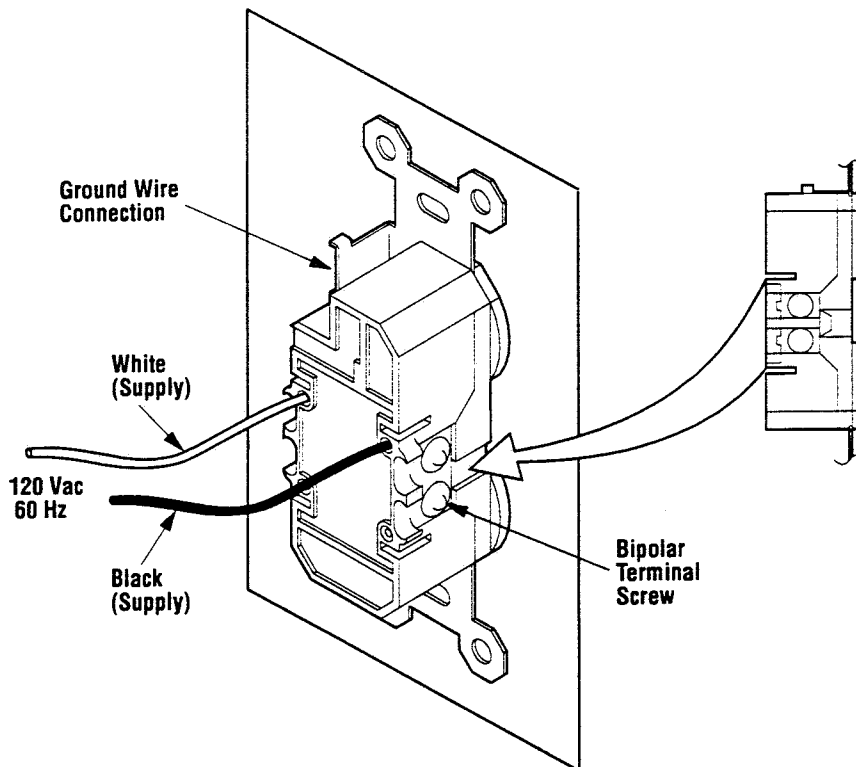


Figure 16

Step 6. Connecting Gas Line – Make gas line connections. All codes require a shut-off valve mounted in the supply line. *Figure 15* illustrates two methods for connecting the gas supply. The flex-line method is acceptable in the U.S., however, Canadian requirements vary depending on locality. Installation must be in compliance with local codes.

The gas control valve is located in the lower control compartment. To access the valve remove the refractory access panel and set aside (*Figure 17*).

The millivolt control valve has a 3/8" (10 mm) NPT thread inlet port. The electronic control valve has a 1/2" (13 mm) NPT thread inlet port and is fitted with a 1/2" x 3/8" (13 mm x 10 mm) NPT fitting. Both the millivolt and electronic models are fitted with a 3" (76 mm) long nipple, 3/8" NPT. Plan the connections accordingly.

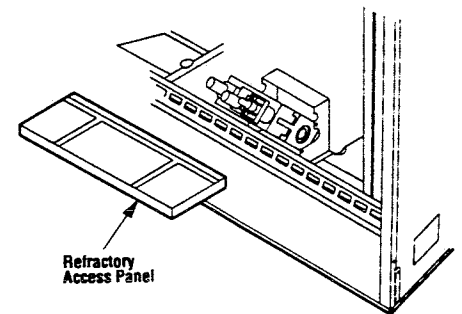


Figure 17

Secure all joints tightly using appropriate tools and sealing compounds (ensure propane resistant compounds are used in propane applications). Turn on gas supply and test for gas leaks using a soapy water solution. **Never use an open flame to check for leaks.**

- A. Mix a 50% dish soap, 50% water solution.
- B. Light the appliance (refer to the safety and lighting instructions on pages 14 through 17).

C. Brush all joints and connections with the soapy water solution to check for leaks. If bubbles are formed, or gas odor is detected, turn the gas control knob to the "OFF" position. Either tighten or refasten the leaking connection and retest as described above.

D. When the gas lines are tested and leak free, observe the individual tongues of flame on the burner. Make sure all ports are open and producing flame evenly across the burner. If any ports are blocked, or partially blocked, clean out the ports.

High Elevation Derating

WARNING: THE DERATING KIT IS TO BE INSTALLED BY AN AUTHORIZED DISTRIBUTOR OR OTHER FACTORY CERTIFIED SERVICE TECHNICIAN IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE. THE QUALIFIED AGENCY PERFORMING THIS WORK ASSUMES RESPONSIBILITY FOR THIS DERATING.

In Canada

THE DERATING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROVINCIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAN1-B149.1 AND .2 INSTALLATION CODE.

This unit has been tested for installation at high altitudes in accordance with Canadian test standard CAN/CGA-2.17.

Higher altitudes affect the atmospheric pressure and heat value of gaseous fuels. When installing this unit at high altitudes, the lower oxygen content in the air and lower gas viscosity require installation of a different orifice to achieve efficient, clean combustion at the burner assembly. Refer to the following chart and/or the rating plate on the appliance for proper orifice size.

To derate this unit, order and install the appropriate high altitude orifice kit per the chart below. Remove two (2) screws found at the base of the burner tray and remove the burner tray with tube. Use care to prevent damage to the air shutter adjustment rod. Remove the orifice (*Figure 18*) and replace with the appropriate one from the kit. Refer to the following chart. Be sure to attach the conversion sticker provided with the kit to the rating plate on the appliance.

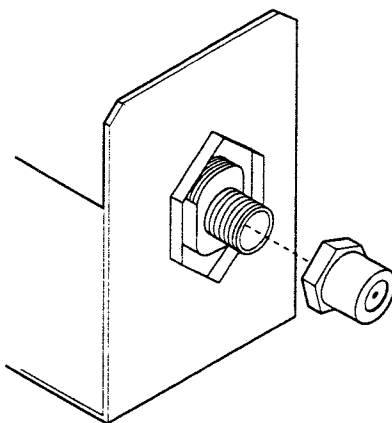


Figure 18

Gas Type	Orifice Size	High Alt Orf. Kit	Elevation
Natural	(.094)	—	0 - 2000' (0 - 610 m)
	(.087)	SFC P/N 065953	2000 - 4500' (610 - 1370 m)
Propane	(.0571)	—	0 - 2000' (0 - 610 m)
	(.049)	SFC P/N 065954	2000 - 4500' (610 - 1370 m)

Step 7. Installing Logs and Rockwool – The logs are packaged in bubble wrap within the firebox. The bag of rockwool is in the lower control compartment. Remove the rockwool from the packaging and tear into dime size pieces. Spread across the burner screen and front burner evenly. Do not use more than is necessary to cover the screen and burner. When properly positioned, the rockwool will unevenly cover approximately 85% of the screen and front burner with no appreciable gaps.

Carefully position the bottom fiber logs onto the burner with the longer, scalloped and charred log in front and the shorter log in the back. Position the logs onto the pins of the burner, with the cutouts fitted around the burner tube. Position the rear log matching the cutout on its bottom with the position of the pilot.

Place the smaller fiber top log across the two (2) lower logs in the manner illustrated (*Figure 19*). Position the top twig over the two (2) pins on the rear log.

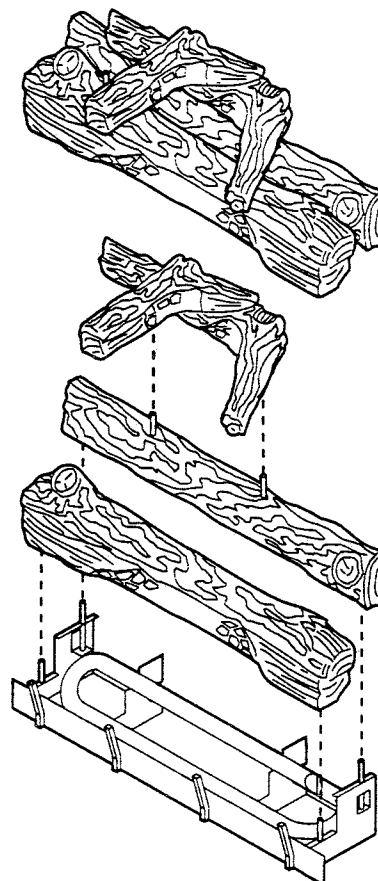


Figure 19

Appliance Operation

Step 8. Checking the System – With gas line installed run initial system checkout before closing up the front of the unit. Follow the pilot lighting instructions on page 14 for millivolt appliances. Refer to page 16 for electronic appliance lighting instructions for piezo ignitor location refer to *Figure 21* (millivolt appliances only).

Note: Instructions are also found on the pull out panel located on the bottom surface of the appliance (next to the gas valve).

When first lighting the appliance, it will take a few minutes for the line to purge itself of air. Once purging is complete, the pilot and burner will light and operate as indicated in the instruction manual.

Subsequent lightings of the appliance will not require such purging. Inspect the pilot flame (remove logs, if necessary, handling carefully).

Millivolt Appliance Checkout

The pilot flame should be steady, not lifting or floating. Flame should be blue in color with traces of orange at the outer edge.

The top $\frac{3}{8}$ " (10 mm) at the pilot generator (thermopile) should be engulfed in the pilot flame. The flame should project 1" (25 mm) beyond the hood at all three ports (Figure 20).

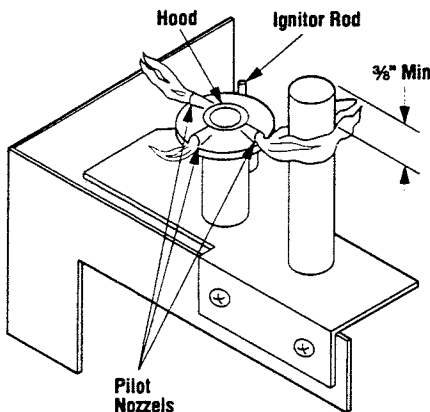


Figure 20

Replace logs if removed for pilot inspection.

To light the burner; turn "ON" the remote wall switch and rotate the gas valve control knob counterclockwise to the "ON" position ("ON" will be to the left hand side of the valve).

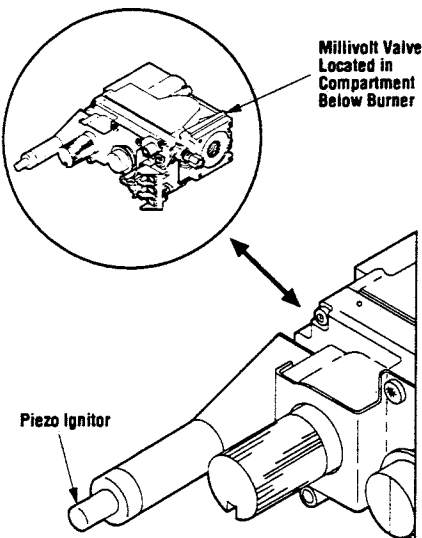


Figure 21

Electronic Appliance Checkout

To light the burner, turn 'ON' the remote wall switch and rotate the gas valve control lever up to the "ON" position (the lever will be in the "ON" position when the lever is sticking straight out).

If the burner fails to light, check that the gap between the igniter electrode and the burner tube is $\frac{3}{16}$ " \pm $\frac{1}{32}$ ". If the gap is incorrect, bend the top of the electrode to within this limit.

Step 9. Adjustments – The following paragraphs address adjustment concerns and procedures.

Flame Appearance and Sooting

Proper flame appearance is a matter of taste. Generally most people prefer the warm glow of a yellow to orange flame. Appliances operated with air shutter openings that are too large, or with long vertical vent runs, will exhibit flames that are blue and transparent. These weak, blue and transparent flames are termed anemic.

If the air shutter opening is too small sooting may develop. Sooting is indicated by black puffs developing at the tips of very long orange flames. Sooting results in black deposits forming on the logs, appliance inside surfaces and on exterior surfaces adjacent to the vent termination. Sooting is caused by incomplete combustion in the flames and a lack of combustion air entering the air shutter opening.

To achieve a warm yellow to orange flame with an orange body that does not soot, the shutter opening must be adjusted between these two extremes.

No smoke or soot should be present. Reposition the logs as shown in Figure 22 if the flames impinge on any of them.



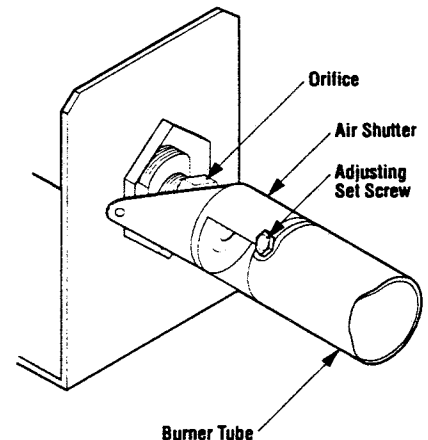
Figure 22

If sooting conditions exist, the air shutter opening on the main burner can be adjusted. Normally, the more offsets in the vent system, the greater the need for the air shutter to be opened further.

WARNING: AIR SHUTTER ADJUSTMENT SHOULD ONLY BE PERFORMED BY A QUALIFIED PROFESSIONAL SERVICE TECHNICIAN.

Adjustment

To adjust the flame, position the air shutter to the nominal setting (Figure 23). Allow the burner to operate for at least 30 minutes. Observe the flame continuously. If it appears weak or sooty as previously described, adjust the air shutter open or closed until desired effect is achieved.



Nominal Air Shutter Settings
Natural Gas - $\frac{1}{16}$ " Open
Propane Gas - $\frac{1}{4}$ " Open

Figure 23

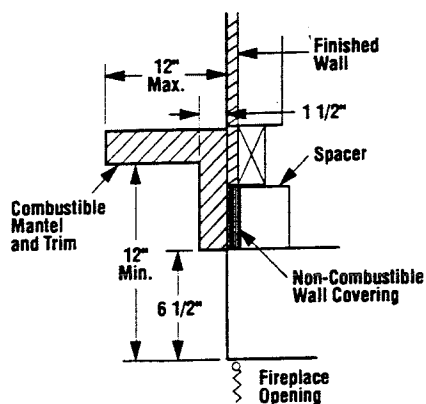
Note: If the flame still appears anemic with the air shutter closed all the way (usually a result of lengthy vertical venting runs), turn off the appliance, turn off the gas supply, wait for the parts to cool and access the air shutter. The shutter is prevented from actually closing by a tab that is bent over into the opening. Remove this obstruction by bending back. Reassemble and restart the appliance and after 30 minutes reobserve the flame. Adjust the air shutter as described.

When satisfied that the appliance operates properly, proceed to finish the installation. Leave the control knob/lever in "ON" position and turn the remote switch "OFF." Replace the refractory access panel.

FINISHING REQUIREMENTS

Wall Details

Complete finished interior wall. To install the appliance facing flush with the finished wall, position framework to accommodate the thickness of the finished wall (Figure 24).



Typical Installation

Figure 24

A hearth extension is not required with this appliance. Any hearth extension used is for appearance only and does not have to conform to standard hearth extension installation requirements.

Note: Combustible wall finish materials and/or surround materials must not be allowed to encroach the area defined by the appliance front face (black sheet metal). Never allow combustible materials to be positioned in front of or overlapping the appliance front face.

A combustible mantel shelf projecting a maximum of 12" (305 mm) from the wall may be installed a minimum distance of 12" (305 mm) from the top of the firebox opening (Figure 25).

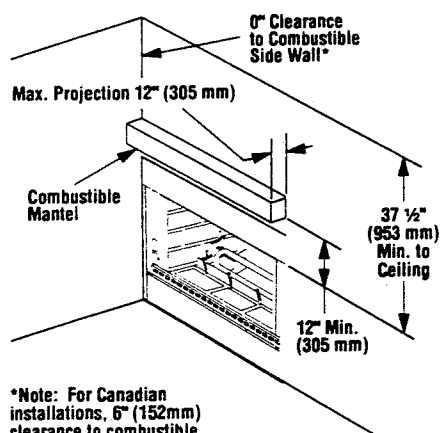


Figure 25

COLD CLIMATE INSULATION

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

KBV-38 SERIES OPTIONS

All options are available in kit form, are easy to install and are packaged complete with all required parts and instructions. Some of the option kits need to be fitted prior to completing the installation of the appliance. The following paragraphs detail the kit options available for use with the appliances covered in this manual.

These outstanding optional items can be added individually to customize your appliance to fit your home's unique needs. Kit model numbers are provided on page 13 along with descriptive illustrations.

Gas Flex Line with Valve

A gas flex line kit is available to aid in attaching the appliance to the gas supply. This kit can only be used where local codes permit. The kit includes a 1/2" NPT to 3/8" flare in line shut-off valve, a 12" flex line 3/8" female flare through and a 3/8" flare to 3/8" NPT fitting. The components of this kit are rated for both natural and propane gas. This kit is designed to be used as an aid in installing the appliance.

Optional Glass Doors

If glass doors are to be installed on this appliance, refer to specific installation instructions packed with the glass doors. Use Superior glass doors Models 38SBF, 38SBF-PB, 38SBF-SPB, 38SBF-ABR or 38SC-SPB. Use of other non-listed glass door on these appliances may constitute a potential fire hazard and is not recommended.

CAUTION: DO NOT ATTEMPT TO TOUCH THE DOORS WITH YOUR HANDS WHILE THE APPLIANCE IS IN USE. ALWAYS USE DOOR HANDLES. DOORS WILL BECOME VERY HOT WHEN FIREPLACE IS IN USE.

WARNING: APPLIANCES EQUIPPED WITH DOORS SHOULD BE OPERATED ONLY WITH THE DOORS FULLY OPEN OR FULLY CLOSED.

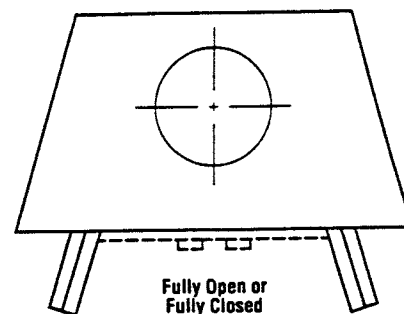


Figure 26

Remote Control Kit

The Model RCK adds the convenience of remote control for your appliance. The kit includes a wireless, hand held transmitter and a receiver that replaces the wall switch. This special receiver permits either manual or remote control modes. Both receiver and transmitter operate on standard 9 volt batteries (not included). Refer to the RCK installation instruction for specific details.

Wall Switch Kit

An optional wall switch kit can be installed along with all KBV-38 appliances. The kit consists of a standard UL wall switch with cover plate. This kit provides for remote (wall) operation of the appliance. Replace the wall switch and cover plate of this kit with the components of the RCK and you can have true remote control of your appliance, turning it on and off from your favorite easy chair. The wall switch kit should be installed along with the appliance. Refer to Figures 13 and 14 and Step 5 for detailed installation instructions.

Gas Conversion Kits

WARNING: THE CONVERSION KIT IS TO BE INSTALLED BY AN AUTHORIZED FIREPLACE DISTRIBUTOR OR OTHER FACTORY CERTIFIED SERVICE TECHNICIAN IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE. THE QUALIFIED AGENCY PERFORMING THIS WORK ASSUMES RESPONSIBILITY FOR THIS CONVERSION.

In Canada

THE CONVERSION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROVINCIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAN1-B149.1 AND .2 INSTALLATION CODE.

Gas conversion kits are available to adapt your appliance from the use of one type to the use of another. These kits contain all the necessary components needed to complete the task including labeling that must be affixed to ensure safe operation. Kit part numbers are listed below and the following steps detail the conversion procedure.

Millivolt Conversion Kits

SFC P/N 065956 — Natural to Propane
SFC P/N 065955 — Propane to Natural

Electronic Conversion Kits

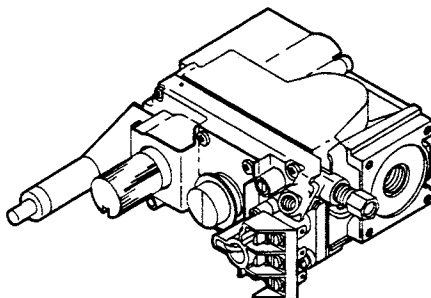
SFC P/N 065958 — Natural to Propane
SFC P/N 065957 — Propane to Natural

Step 1. Turn off the gas supply to the appliance. Remove the refractory access panel from the appliance.

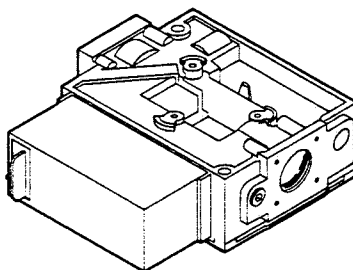
Step 2. Carefully remove the top twig. Then remove the two (2) main logs. Exercise care as not to break the logs.

Step 3. Remove the two (2) screws located at the base of the burner tray. Remove the burner tray with the burner. Lift the rear of the burner tray up slightly and to the right to disengage the burner tube from the manifold and orifice.

Step 4. Mark the wires to the gas valve. Remove the screws securing the gas valve to the valve bracket. Then remove and replace the gas valve (*Figure 27*).



Millivolt



Electronic

Figure 27

Step 5. Unscrew the orifice from the manifold and replace it with the one provided with the kit: (.094) for natural gas units and (.057) for propane (*refer to Figure 18*).

Step 6. Replace the pilot orifice with the one provided with the kit (*Figure 28*).

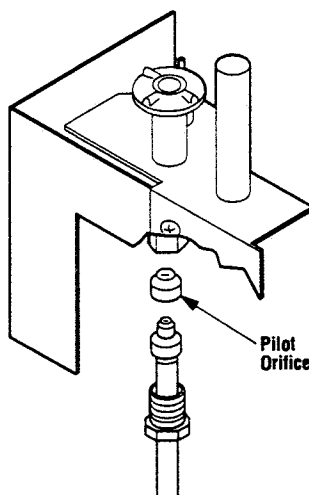


Figure 28

Step 7. Reassemble all removed components by reversing the procedures outlined in the preceding steps. Use pipe joint compound or Teflon tape on all fittings before installing (ensure propane resistant compounds are used in propane applications).

Step 8. Attach conversion kit label to the rating plate on the appliance; Label B for units converted to natural gas or Label K for units converted to propane (*Figure 29*).

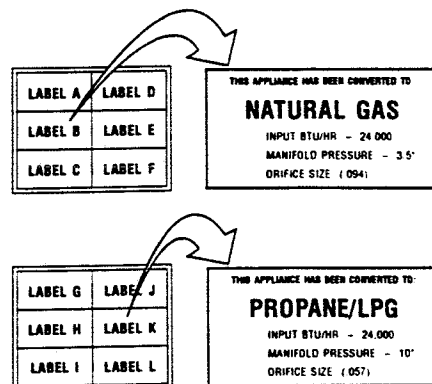


Figure 29

Step 9. Turn on gas supply and test for gas leaks as described in the gas line connection instructions, Step 6 on page 7.

WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES. USE CAUTION AROUND THE APPLIANCE TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

OPERATION AND CARE OF YOUR APPLIANCE

1. Appliance operation may be controlled through a remotely located optional wall switch. Separate switches may provide independent control for the remote controlled fireplace operation (optional equipment).

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

3. Keep lower control compartment clean by vacuuming or brushing at least twice a year. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is important that control compartments, burners and circulating air passageways of the appliance be kept clean.

4. Always turn off gas to the pilot (millivolt appliances) before cleaning. Before re-lighting, refer to the lighting instructions in this manual. Instructions are also found on a pull-out panel located on the floor of the appliance.

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

6. Remember, the KBV-38 Millivolt appliance has a continuous burning pilot flame. Exercise caution when using products with combustible vapors.

7. Clean the optional glass doors only when necessary. Wipe surface with clean, dampened, soft cloth. Follow with dry, soft towel as desired. Take care not to scratch the glass surface.

WARNING: DO NOT USE ABRASIVE CLEANERS. NEVER CLEAN THE GLASS WHEN IT IS HOT.

Maintenance

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

IMPORTANT: TURN OFF GAS AND ANY ELECTRICAL POWER BEFORE SERVICING THE APPLIANCE.

The main burner compartment should be inspected annually for proper operation. Perform general cleaning to remove any surface build-up on pilot and burner assembly. Wipe the pilot nozzles, igniter rod and hood (*refer to Figure 20*). Avoid disturbing the loose ceramic fibers on the front burner.

With proper care and maintenance, your appliance will provide many years of enjoyment. If you should experience any problem, first refer to the trouble shooting guide in this manual. If problem persists, contact your local service center.

WARRANTY

Your gas appliance is covered by a limited one year warranty. You will find a copy of the warranty in this manual. Please read the warranty to be familiar with its coverage.

Retain this manual. File it with your other documents for future reference.

REPLACEMENT PARTS

A complete parts list is found at the end of this manual. Use only parts supplied from the manufacturer.

Normally, all parts should be ordered through your Superior distributor or dealer. Parts will be shipped at prevailing prices at time of order.

When ordering repair parts, always give the following information:

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

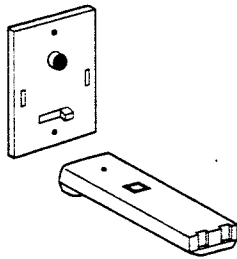
ACCESSORY PARTS AND COMPONENT LIST FOR THESE KBV-38 SERIES APPLIANCES

The accessory parts and components on page 13 are to be used only with this appliance system. Separate installation instructions are packaged with most accessories.

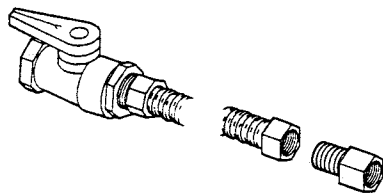
If you encounter any problems or have any questions concerning the installation or application of this system, please contact your distributor. For the name of your nearest distributor contact:

SFC
4325 Artesia Avenue
Fullerton, CA 92633
(714) 521-7302

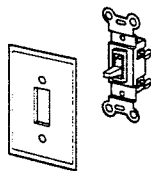
ACCESSORIES AND COMPONENTS



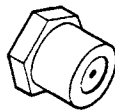
Remote Control Kit RCK



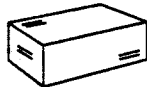
Gas Flex Line Kit GFLV



Wall Switch Kit WSK



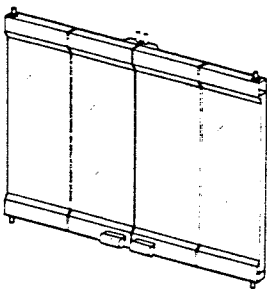
High Altitude Orifice Kit SFC P/N 065953 Natural Propane
SFC P/N 065954



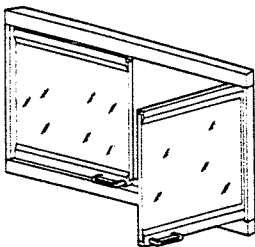
Refractory Patch Kit RPK



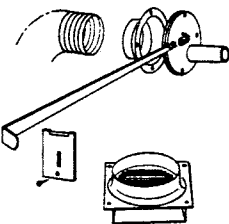
Refractory Tint Kit RTK



38SBF
38SBF-PB
38SBF-SPB
38SBF-ABR
"ALL-GLASS™"
Bi-Fold Doors



38SC-SPB
"ALL-GLASS™"
Twin-Pane Doors



AK-4-3
AK-4LD-3
Combustion Air Kit
(Less Duct)

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

LIGHTING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

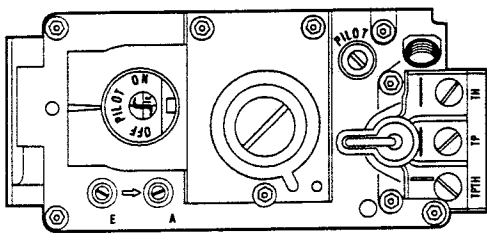
- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE OPERATING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Extinguish any open flame.
 - Open windows.
 - Do not light any appliance.
 - Do not touch any electrical switches.
 - Do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone.
 - If your gas supplier cannot be reached, 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, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or an explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

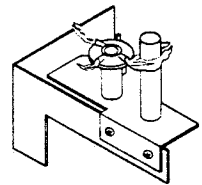
1. **STOP!** Read the safety information above on this page.
2. Access the lower control compartment.
3. Turn remote wall switch to "OFF."
4. Verify main line shut-off valve is open.
5. Push in gas control knob slightly and turn clockwise to "OFF."



Note: Knob cannot be turned from "PILOT" to "OFF" unless the knob is pushed in slightly. Do not force.

6. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this page. If you do not smell gas, go to the next step.
7. Push in gas control knob slightly and turn counterclockwise to "PILOT."
8. Push in control knob all the way and hold in. Immediately light the pilot by triggering the spark ignitor (pushing the button) until pilot lights. Continue to hold the control knob in for about 1 ½ minutes 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 8.

- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If pilot will not stay lit after several tries, turn the control knob to "OFF" and call your service technician or gas supplier.



9. Turn gas control knob counterclockwise to "ON."
10. Close lower control compartment.

TO TURN OFF GAS TO APPLIANCE

1. Turn remote wall switch "OFF." The pilot will remain lit for normal service.
2. For complete shutdown, turn remote wall switch to "OFF."
3. Access the lower control compartment.
4. Depress gas control knob slightly and turn clockwise to "OFF." Do not force.
5. Close lower control compartment.

INSTRUCTIONS D'ALLUMAGE

POUR VOTRE SÉCURITÉ, LISEZ-LES AVANT L'ALLUMAGE

AVERTISSEMENT : SI VOUS NE SUIVEZ PAS CES INSTRUCTIONS À LA LETTRE, IL POURRAIT S'ENSUIVRE UN INCENDIE OU UNE EXPLOSION CAUSANT DES DOMMAGES MATÉRIELS, DES BLESSURES CORPORELLES OU MÊME DES PERTES DE VIE.

- A. Cet appareil est muni d'une veilleuse qui doit être allumée à la main. Lorsque vous allumez la veilleuse, suivez exactement ces instructions.
- B. **AVANT DE VOUS EN SERVIR**, sentez tout autour de l'appareil où il pourrait y avoir une odeur de gaz. Reniflez près du plancher car, le gaz étant plus lourd que l'air, il se dépose sur le plancher.

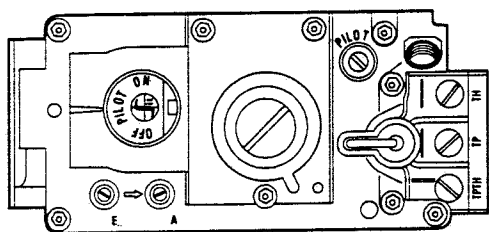
VOICI CE QUE VOUS DEVEZ FAIRE SI VOUS DÉCELEZ UNE ODEUR DE GAZ:

- Éteignez toutes les flammes nues.
- Ouvrez les fenêtres.
- N'allumez aucun appareil.
- Ne touchez à aucun commutateur électrique.
- Ne vous servez d'aucun téléphone dans votre édifice.

- Appelez immédiatement votre compagnie de gaz en utilisant le téléphone d'un voisin.
 - S'il vous est impossible de contacter votre compagnie de gaz, appelez le service des incendies.
- C. Servez-vous uniquement de votre main pour tourner ou pour enfoncer le bouton de réglage du gaz. N'employez jamais un outil. Si le bouton refuse de tourner ou de bouger, ne tentez pas de le réparer. Appelez un technicien compétent et expérimenté. Si vous essayez de le forcer ou de le réparer, vous pourriez causer un incendie ou une explosion.
- D. Ne vous servez pas de cet appareil si l'un de ses éléments a été immergé dans l'eau. Appelez immédiatement un technicien compétent pour faire inspecter l'appareil et remplacer toute pièce du système de réglage ou commande du gaz qui a été sous l'eau.

INSTRUCTIONS D'ALLUMAGE

1. **ARRÊTEZ !** Lisez les consignes de sécurité ci-dessus.
2. Ouvrez le compartiment de contrôle du bas.
3. Tournez le térupteur mural à sa position d'arrêt "OFF".
4. Assurez-vous que la soupape d'arrêt de la canalisation principale est ouverte.
5. Enfoncéz légèrement le bouton de réglage du gaz et tournez-le dans le sens des aiguilles d'une montre jusqu'à la position d'arrêt "OFF".



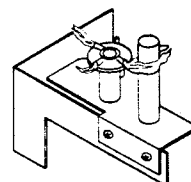
Remarque: Il est impossible de tourner le bouton de "PILOT" à "OFF" à moins qu'il ne soit légèrement enfoncé. Ne le forcez pas.

6. Attendez cinq (5) minutes pour en laisser sortir le gaz, le cas échéant. Si vous décelez une odeur de gaz, **ARRÊTEZ !** Retournez au point "B" des consignes de sécurité ci-dessus. Si vous ne remarquez aucune odeur de gaz, passez à l'étape suivante.

7. Enfoncéz légèrement le bouton de réglage du gaz et tournez-le en sens inverse des aiguilles d'une montre jusqu'à la position de veilleuse "PILOT".

8. Enfoncéz le bouton de réglage jusqu'au fond et gardez-le enfoncé. Allumez immédiatement la veilleuse en déclenchant l'allume-gaz à étincelle (en poussant le bouton) jusqu'à ce que la veilleuse s'enflamme. Continuez de tenir le bouton de réglage enfoncé pendant environ 90 secondes après l'allumage de la veilleuse. Relâchez le bouton et il sortira subitement. La veilleuse devrait rester allumée. Si elle s'éteint, répétez les étapes 5 à 8 inclusivement.

- Si le bouton ne sort pas automatiquement après avoir été relâché, arrêtez immédiatement et téléphonez à votre technicien de service ou à votre fournisseur de gaz.
- Si la veilleuse refuse de rester allumée après plusieurs tentatives, tournez le bouton de réglage jusqu'à sa position d'arrêt "OFF" et téléphonez à votre technicien de service ou à votre fournisseur de gaz.



9. Tournez le bouton de réglage du gaz en sens inverse des aiguilles d'une montre jusqu'à sa position de marche "ON".

10. Fermez le compartiment de contrôle du bas.

POUR FERMER LE GAZ QUI ALIMENTE L'APPAREIL

1. Tournez le térupteur mural à sa position d'arrêt "OFF". La veilleuse restera allumée jusqu'au retour du service normal.
2. Pour une fermeture complète, tournez le térupteur mural à sa position d'arrêt "OFF".
3. Ouvrez le compartiment de contrôle du bas.
4. Enfoncéz légèrement le bouton de réglage du gaz et tournez-le dans le sens des aiguilles d'une montre jusqu'à sa position d'arrêt "OFF". Ne le forcez pas.
5. Fermez le compartiment de contrôle du bas.

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. When lighting the appliance, follow these instructions exactly.
- B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

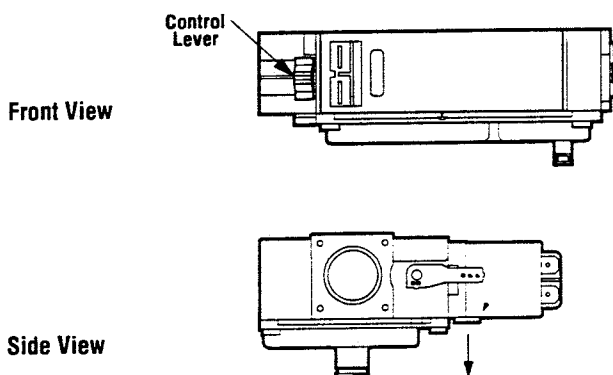
- Extinguish any open flame.
- Open windows.
- Do not light any appliance.
- Do not touch any electrical switches.
- Do not use any phone in your building.

- Immediately call your gas supplier from a neighbor's phone.
- If your gas supplier cannot be reached, call the fire department.

- C. Use only your hand to turn the gas control lever. Never use tools. If the lever will not turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or an explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information above on this page.
2. Turn remote wall switch to "OFF."
3. Open lower control compartment door.
4. Verify main line shut-off valve is open.



5. Rotate the gas control lever to "OFF" (straight down). Do not force.
6. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this page. If you do not smell gas, go to the next step.
7. Rotate the gas control lever to "ON" (straight forward). Do not force.
8. Turn "ON" all electrical power to appliance (remote wall switch).
9. Close lower control compartment door.

TO SHUT OFF

1. For complete shut-down, turn remote wall switch to "OFF."
2. Open lower control compartment door.

1. Turn off all electrical power to the appliance (remote wall switch).

TO TURN OFF GAS TO APPLIANCE

3. Rotate the gas control lever to "OFF" (straight down). Do not force.
4. Close the main line shut-off valve.
5. Close lower control compartment door.

INSTRUCTIONS D'ALLUMAGE

POUR VOTRE SÉCURITÉ, LISEZ-LES AVANT L'ALLUMAGE

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- A. Lorsque vous allumez l'appareil, suivez exactement ces instructions.
- B. AVANT DE VOUS EN SERVIR, sentez tout autour de l'appareil où il pourrait y avoir une odeur de gaz. Reniflez près du plancher car, le gaz étant plus lourd que l'air, il se dépose sur le plancher.

VOICI CE QUE VOUS DEVEZ FAIRE SI VOUS DÉCELEZ UNE ODEUR DE GAZ

- Éteignez toutes les flammes nues.
- Ouvrez les fenêtres.
- N'allumez aucun appareil.
- Ne touchez à aucun commutateur électrique.
- Ne vous servez d'aucun téléphone dans votre édifice.

- Appelez immédiatement votre compagnie de gaz en utilisant le téléphone d'un voisin.
- S'il vous est impossible de contacter votre compagnie de gaz, appelez le service des incendies.

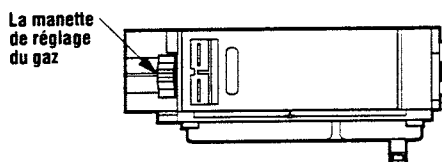
- C. Servez-vous uniquement de votre main pour tourner la manette de réglage du gaz. N'employez jamais un outil. Si la manette refuse de tourner, ne tentez pas de la réparer. Appelez un technicien compétent et expérimenté. Si vous essayez de la forcer ou de la réparer, vous pourriez causer un incendie ou une explosion.

- D. Ne vous servez pas de cet appareil si l'un de ses éléments a été immergé dans l'eau. Appelez immédiatement un technicien compétent pour faire inspecter l'appareil et remplacer toute pièce du système de réglage ou commande du gaz qui a été sous l'eau.

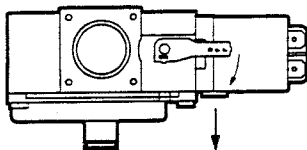
INSTRUCTIONS D'ALLUMAGE

1. **ARRÊTEZ !** Lisez les consignes de sécurité ci-dessus.
2. Tournez le térupteur mural à sa position d'arrêt "OFF".
3. Ouvrez la porte du compartiment de contrôle du bas.
4. Assurez-vous que la soupape d'arrêt de la canalisation principale est ouverte.

Vue avant



Vue du côté



5. Tournez la manette de réglage du gaz à sa position d'arrêt "OFF" (directement en bas).
6. Attendez cinq (5) minutes pour en laisser sortir le gaz, le cas échéant. Si vous décelez une odeur de gaz, **ARRÊTEZ !** Retournez au point "B" des consignes de sécurité ci-dessus. Si vous ne remarquez aucune odeur de gaz, passez à l'étape suivante.
7. Tournez la manette de réglage du gaz jusqu'à sa position de marche "ON" (droit devant). Ne la forcez pas.
8. Ouvrez le courant électrique ("ON") qui alimente l'appareil (térupteur mural).
9. Fermez la porte du compartiment de contrôle du bas.

POUR ÉTEINDRE L'APPAREIL

1. Coupez tout le courant électrique qui alimente l'appareil (térupteur mural)

POUR FERMER LE GAZ QUI ALIMENTE L'APPAREIL

1. Pour une fermeture complète, tournez le térupteur mural à sa position d'arrêt "OFF".
2. Ouvrez la porte du compartiment de contrôle du bas.
3. Tournez la manette de réglage du gaz à sa position d'arrêt "OFF" (directement vers le bas). Ne la forcez pas.
4. Fermez la soupape d'arrêt de la canalisation principale.
5. Fermez la porte du compartiment de contrôle du bas.

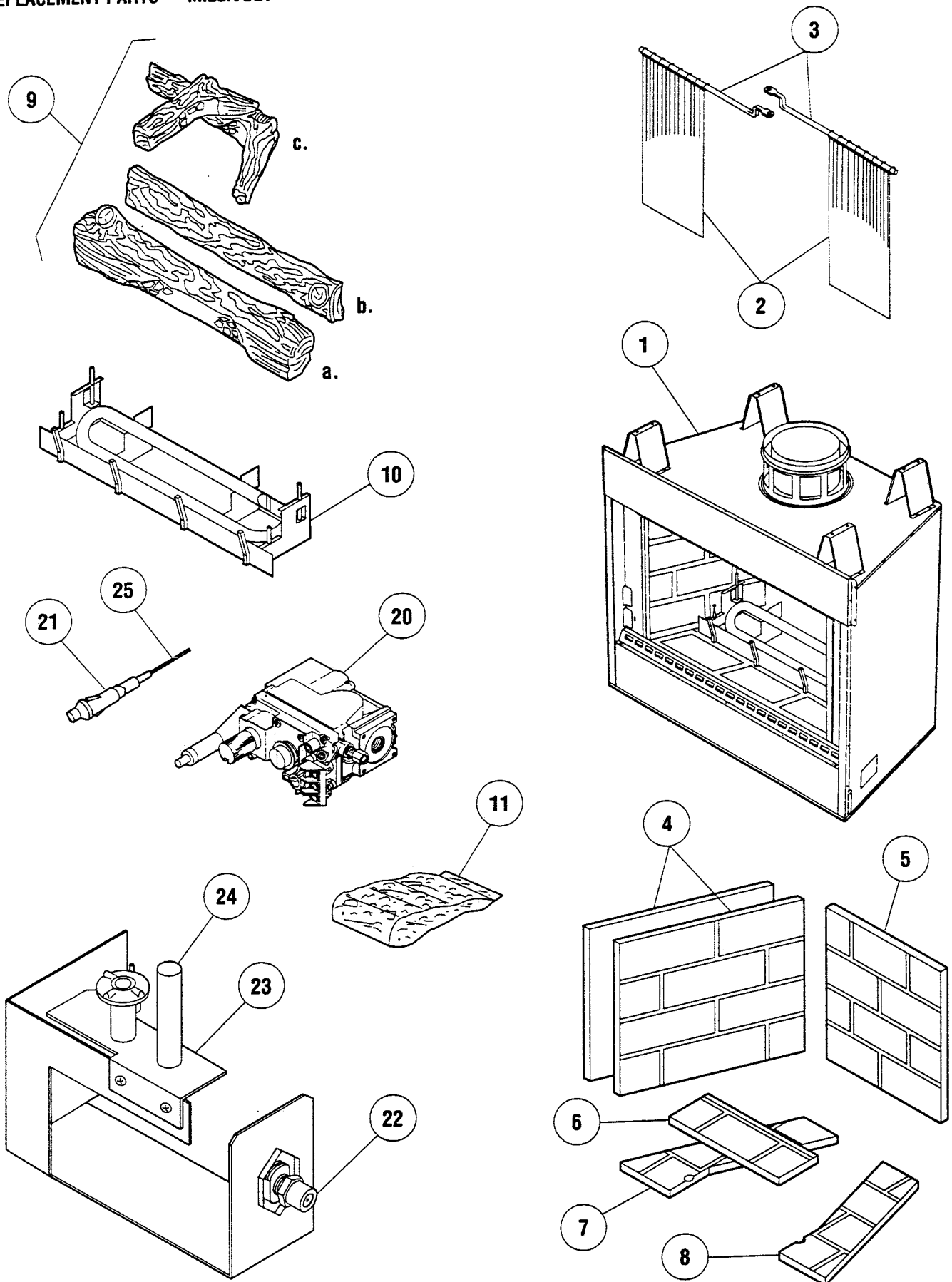
REPLACEMENT PARTS LIST — MILLIVOLT

No.	DESCRIPTION	KBV-38RMN		KBV-38RMP	
		Part No.	Qty.	Part No.	Qty.
1.	Gas Fireplace Assembly	123671	1	123672	1
2.	Firescreen	900007	2	900007	2
3.	Rod, Screen	011387	2	011387	2
4.	Refractory, Side	120871	2	120871	2
5.	Refractory, Rear	120861	1	120861	1
6.	Refractory Access Panel	123561	1	123561	1
7.	Refractory, Base (Left)	123551	1	123551	1
8.	Refractory, Base (Right)	123552	1	123552	1
9.	Log Set (Split)	—	—	—	—
a.	Front Log	902501	1	902501	1
b.	Rear Log	902502	1	902502	1
c.	Top Twig	902503	1	902503	1
10.	Burner Assembly	121131	1	121131	1
11.	Bag of Rockwool	041172	1	041172	1

GAS CONTROLS — MILLIVOLT

No.	DESCRIPTION	KBV-38RMN		KBV-38RMP	
		Part No.	Qty.	Part No.	Qty.
20.	Gas Valve - SIT	903629	1	903631	1
21.	Piezo Igniter - SIT	902573	1	902573	1
22.	Orifice, Standard	903461	1	901694	1
	Orifice, High Altitude	901695	1	903469	1
23.	Pilot Assembly - SIT	902161	1	902162	1
24.	Thermogenerator	094527	1	094527	1
25.	Piezo Ignitor, Lead Wire	902564	1	902564	1

REPLACEMENT PARTS — MILLIVOLT



NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE

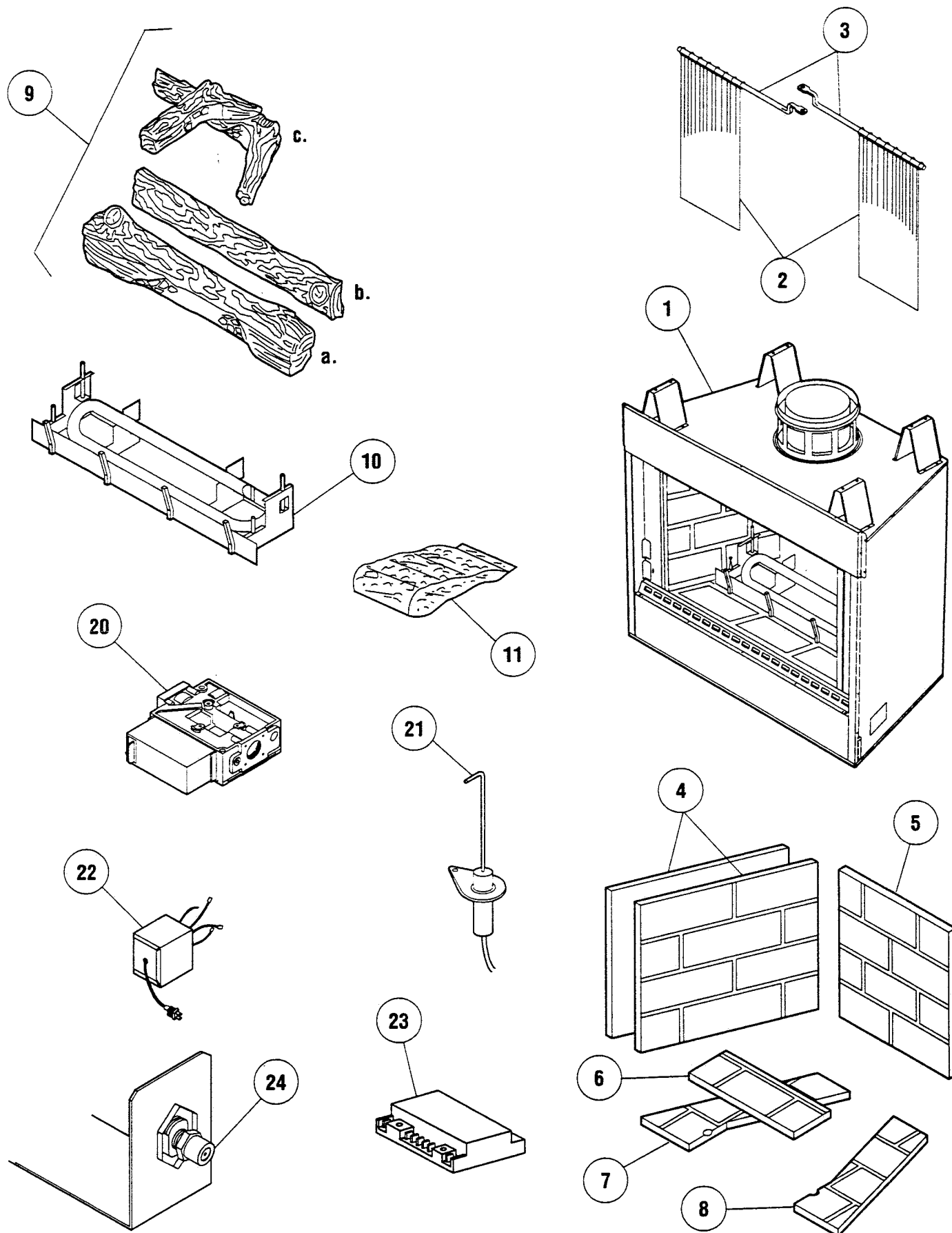
REPLACEMENT PARTS LIST — ELECTRONIC

No.	DESCRIPTION	KBV-38REN		KBV-38REP	
		Part No.	Qty.	Part No.	Qty.
1.	Gas Fireplace Assembly	123673	1	123674	1
2.	Firescreen	900007	2	900007	2
3.	Rod, Screen	011387	2	011387	2
4.	Refractory, Side	120871	2	120871	2
5.	Refractory, Rear	120861	1	120861	1
6.	Refractory Access Panel	123561	1	123561	1
7.	Refractory, Base (Left)	123551	1	123551	1
8.	Refractory, Base (Right)	123552	1	123552	1
9.	Log Set (Split)	—	—	—	—
a.	Front Log	902501	1	902501	1
b.	Rear Log	902502	1	902502	1
c.	Top Twig	902503	1	902503	1
10.	Burner Assembly	121131	1	121131	1
11.	Bag of Rockwool	041172	1	041172	1

GAS CONTROLS — ELECTRONIC

No.	DESCRIPTION	KBV-38REN		KBV-38REP	
		Part No.	Qty.	Part No.	Qty.
20.	Gas Valve - Robertshaw	901198	1	901199	1
21.	Igniter, Electronic	901451	1	901451	1
22.	Transformer	040413	1	040413	1
23.	Igniter Controller, Electronic	901253	1	901253	1
24.	Orifice, Standard	903461	1	901694	1
	Orifice, High Altitude	901695	1	903469	1

REPLACEMENT PARTS — ELECTRONIC



NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE

TROUBLESHOOTING THE MILLIVOLT GAS CONTROL SYSTEM

MODELS KBV-38RMN AND KBV-38RMP

Note: Before troubleshooting the gas control system, be sure external gas shut off valve (located at gas supply inlet) is in the "ON" position.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Spark ignitor will not light pilot after repeated triggering of red button.	A. Defective ignitor (no spark at electrode).	Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace ignitor.
	B. Defective or misaligned electrode at pilot (spark at electrode).	Using a match, light pilot. If pilot lights, turn off pilot and trigger the red button again. If pilot lights, an improper gas mixture caused the bad lighting and a longer purge period is recommended. If pilot will not light – check gap at electrode and pilot - should be $\frac{1}{8}$ " to have a strong spark. If gap measures $\frac{1}{8}$ ", replace pilot (<i>Figure 20</i>).
	C. Gas supply pressure errant.	Check inlet gas pressure. It should be within the limits as marked on the rating plate.
	D. Pilot orifice plugged.	Clean or replace pilot orifice.
2. Pilot will not stay lit after carefully following the lighting instructions.	A. Defective pilot generator (thermogenerator).	Check pilot flame, it must impinge on thermogenerator (<i>Figure 20</i>). Clean and/or adjust pilot for maximum flame impingement on thermogenerator. Ensure that the connection between the valve and thermogenerator are tight and secure.
3. Pilot burning, no gas to burner, Valve knob "ON," Wall Switch "ON."	A. Wall switch or wires defective.	Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch, if burner comes on, replace defective wall switch. If okay, jumper wires across wall switch wires at valve, if burner comes on, wires are faulty or connections are bad.
	B. Thermopile may not be generating sufficient millivoltage.	Check thermopile with millivolt meter. Take reading at thermopile terminals of gas valve. Should read 325 millivolts minimum with optional wall switch "OFF." Replace faulty thermopile if reading is below specified minimum.
	C. Plugged burner orifice.	Check burner orifice for stoppage and remove.
4. Frequent pilot/burner outage problem.	A. Pilot flame may be too low or blowing (high) causing the pilot/valve safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on thermogenerator (<i>Figure 20</i>).

TROUBLESHOOTING THE DIRECT SPARK IGNITION ELECTRONIC SYSTEM

MODELS KBV-38REN AND KBV-38REP

Note: Before troubleshooting, be sure that the appliance main line gas shut-off valve, the gas control valve and the wall switch are in the "ON" position.

Important: "ON/OFF" switch must be "OFF" before performing continuity test. Adjust multimeter to the ohm setting when performing continuity tests.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. No spark.	A. Faulty transformer.	Confirm 24Vac output from transformer (red and blue leads). If no, then replace transformer. Note: Before replacing transformer, check wiring for loose connections or broken wires and repair as needed. Turn off electricity before replacing transformer.
	B. "OFF/ON" switch defective.	Disconnect the two black wires from the wire nuts. Test "ON/OFF" wall switch for continuity with a multimeter. If continuity is not indicated, switch is defective and must be replaced. Note: Before replacing "OFF/ON" switch, be sure to check wiring for loose connections or broken wires and repair as needed.
	C. Ignition control module defective.	If reading is not 24V at "TH" and "TR" terminals on ignition control, or the red LED on the ignition control remains on continuously, replace ignition control module.
	D. Ignition control or igniter defective.	Confirm that the igniter is sparking at the pilot assembly when the "ON/OFF" switch is activated. If not, undertake the following steps: With "ON/OFF" switch "OFF," remove wire at "TR" terminal at the ignition control module. Disconnect the electrode wire from the round terminal located at the ignition control. Connect one end of a jumper wire to the metal blade of a small screwdriver. Attach the other end of the jumper wire to any metal part of the chassis. Reconnect the "TR" terminal. Position end of metal blade approximately $\frac{1}{8}$ " from the round terminal. Activate the "ON/OFF" switch. Sparking should occur between the round terminal and screwdriver blade. If sparking does occur, the ignition control module is OK. Check if the electrode wire or the igniter is faulty. If faulty, the igniter assembly should be replaced.
	E. Sparking, but not at proper location.	Electrode tip needs to be realigned to correct location. $\frac{3}{16}$ " \pm $\frac{1}{32}$ " gap between electrode tip and the burner tube is desired.
2. Igniter sparking but main burners will not come on. Note: Wait at least 90 seconds after pilot lights before completing a check for possible causes.	A. Improper alignment of igniter electrode.	Igniter must be aligned so that the top $\frac{3}{4}$ " of the igniter impinges on the burner flame path. Red LED on ignitor control module will blink ON and OFF.
	B. Burner orifice plugged.	Check main burner orifice(s) for stoppage. Clean or replace.
	C. Gas valve defective.	Check for 24 volts at gas valve operator terminals "1" and "2." If there is a 24V reading and the burner does not come on, the valve operator is defective and the gas valve must be replaced. A closed gas valve will be indicated by a blinking red LED on the ignition control module.
3. Burners come "ON" but go "OFF."	A. Igniter not correctly positioned.	Check location of igniter and adjust as in Step F above. Red LED on ignition control module will blink ON and OFF.

Superior KBV Series Gas Fireplaces Limited Warranty 1 Year

THE WARRANTY

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

REMEDY AND EXCLUSIONS

The coverage of this Warranty is limited to all components of the vented decorative gas appliance manufactured by Superior Fireplace Company, with the exception of ceramic fiber logs and Superior glass enclosure panels. A separate limited warranty for Superior enclosure panels is available from Superior Fireplace Company for all glass enclosure panels manufactured by Superior Fireplace Company.

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

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

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

QUALIFICATIONS TO THE WARRANTY

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

(1) The vented decorative gas appliance must be installed in accordance with Superior Fireplace Company installation instructions and local building codes. The Warranty on this Superior vented decorative gas appliance covers only the component parts manufactured by Superior Fireplace Company. The use of components manufactured by others with this Superior vented decorative gas appliance (except for a listed venting system as prescribed in the installation instruction) could create serious safety hazards, may result in the denial of certification by recognized national safety agencies, and could be in violation of local building codes. This Warranty does not cover any damages occurring from the use of any components not manufactured or supplied by Superior Fireplace Company.

(2) The Superior vented decorative gas appliance must be subjected to normal use. The vented decorative gas appliances are designed to burn either natural or propane gas only. Burning conventional fireplace fuels such as wood, coal, or any other solid fuel will cause damage to the vented decorative gas appliance, will produce excessive temperatures and will result in a fire hazard.

LIMITATION ON LIABILITY

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

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

INVESTIGATION OF CLAIMS AGAINST WARRANTY

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

SUPERIOR FIREPLACE COMPANY NOT RESPONSIBLE FOR WORK DONE WITHOUT WRITTEN CONSENT

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

DEALERS HAVE NO AUTHORITY TO ALTER THIS WARRANTY

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

HOW TO REGISTER A CLAIM AGAINST WARRANTY

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

OTHER RIGHTS

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

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

 **SUPERIOR.**
The Fireplace Company

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901-885-7621