



RETAIN THESE INSTRUCTIONS
FOR FUTURE REFERENCE



OMNI-Test Laboratories, Inc.

OTL Report No. 116-F-13-4

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.

FOR YOUR SAFETY: Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

FOR YOUR SAFETY: What to do if you smell gas:

- 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.

Follow your gas suppliers instructions.

- If your gas supplier cannot be reached, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

HOMEOWNER'S CARE AND OPERATION INSTRUCTIONS

DIRECT VENT DELUXE BDM35 AND BDM35P

35" DIRECT-VENT GAS APPLIANCES

P/N 825,021M REV. F 10/2003

MODELS

BDM35

BDM35P

AVERTISSEMENT: ASSUREZ-VOUS DE BIEN SUIVRE LES INSTRUCTIONS DONNÉES DANS CETTE NOTICE POUR RÉDUIRE AU MINIMUM LE RISQUE D'INCENDIE OU POUR ÉVITER TOUT DOMMAGE MATÉRIEL, TOUTE BLESSURE OU LA MORT.

POUR VOTRE SÉCURITÉ: Ne pas entreposer ni utiliser d'essence ni d'autre vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.

POUR VOTRE SÉCURITÉ: Que faire si vous sentez une odeur de gaz:

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous vous trouvez.
- Evacuez la pièce, le bâtiment ou la zone.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.

L'installation et service doit être exécuté par un qualifié installateur, agence de service ou le fournisseur de gaz.

Please read and carefully follow all of the instructions found in this manual. Please pay special attention to the safety instructions provided in this manual. The Homeowner's Care and Operation Instructions included here will assure that you have many years of dependable and enjoyable service from this product.

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INTRODUCTION

The Fireplace models covered in this manual are Direct-Vent sealed combustion gas fireplace heaters designed for residential application. Direct-Vent appliances operate with the combustion chamber completely isolated from the inside atmosphere. All air for combustion is brought in from the outside and exhaust gases are vented through the same direct vent, vent system.

These millivolt appliances are designed to operate on either natural or propane gas and may be easily converted to the use of either gas type with the conversion kit provided. A millivolt gas control valve with piezo ignition system provides safe, efficient operation. External electrical power is required to operate the optional electrically powered components if installed. Electrical power must be wired during appliance installation.

These appliances comply with National Safety Standards and are tested and listed by Omni-Test Laboratories (Report No. 116-F-13-4) to ANSI Z21.88-2002 (in Canada, CSA-2.33-2002), and CAN/CGA-2.17-M91 in both USA and Canada, as vented gas fireplace heaters.

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 (NFPA 54). (In Canada, the current CAN/CGA B149 installation code.) Electrical wiring must comply with local codes. In the absence of local codes, installation must be in accordance with the National Electrical Code, NFPA 70 - (latest edition). (In Canada, the current CSA C22.1 Canadian Electric Code.)

For additional installation requirements when these appliances are to be installed as an OEM installation in a manufactured home, refer to the manufactured home construction and safety standard, Title 24, Part 3280 or standard for installation in manufactured homes, CAN/CSA Z240MH.

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.

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.

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.

S'assurer que le brûleur et le compartiment des commandes sont propres. Voir les instructions d'installation et d'utilisation qui accompagnent l'appareil.

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

Due to high temperatures the appliance should be located out of traffic and away from furniture and draperies. Locate furniture and window coverings accordingly.

WARNING: THESE FIREPLACES ARE VENTED GAS FIREPLACE HEATERS. DO NOT BURN WOOD OR OTHER MATERIAL IN THESE APPLIANCES.

These appliances are designed to operate on natural or propane gas only.

Input of appliance is 23,000 BTU/HR.

Gas Type	Orifice Size	Elevation
Natural	(.090)	0 - 4500' (0 - 1370 m)
Propane	#54 (.055)	0 - 4500' (0 - 1370 m)

Nominal operating pressures for the manifold side of the gas control system are; 3.5 inches water column (0.87 kPa) for natural gas models and 10 inches water column (2.49 kPa) for propane gas models.

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.

Ne pas se servir de cet appareil s'il a été plongé dans l'eau, complètement ou en partie. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de contrôle et toute commande qui ont été plongés dans l'eau.

Test gage connections are provided on the front of the gas control valve (identified IN for the manifold side and OUT for inlet pressure).

Minimum inlet gas pressure to the appliance is 5.0 inches water column (1.24 kPa) for natural gas and 11 inches water column (2.74 kPa) for propane for the purpose of input adjustment.

Maximum inlet gas supply pressure to the appliance is 10.5 inches water column (2.61 kPa) for natural gas and 13.0 inches water column (3.23 kPa) 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 ½ 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 ½ psig (3.5 kPa).

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

Any safety guard or screen removed for servicing the appliance must be replaced prior to operating the 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: 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 CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

WARNING: DO NOT PLACE CLOTHING OR OTHER FLAMMABLE MATERIALS ON OR NEAR THIS APPLIANCE.

AVERTISSEMENT: SURVEILLER LES ENFANTS. GARDER LES VÊTEMENTS, LES MEUBLES, L'ESSENCE OU AUTRES LIQUIDES À VAPEUR INFLAMMABLES LOIN DE L'APPAREIL.

OPERATION AND CARE OF YOUR APPLIANCE

Appliance operation may be controlled by the following means: an optional unit-mounted ON-OFF control switch, an optional wall-mounted ON-OFF control switch or optional remote control.

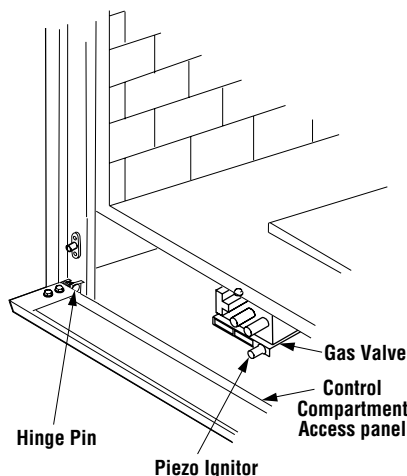
The unit mounted ON-OFF control switch may be mounted in the bracket below the gas valve (see *Figure 2 (SIT) or Figure 3 (Honeywell) on page 4*).

Gas Controls/Control Compartment Access

The gas controls can be found behind the control compartment access panel.

See *Figure 1* for access to the gas control valve.

To open the control compartment access panel, actuate the spring-loaded magnetic catches securing the panel, by gently depressing the outer top corners of the panel until the catches "pop" the door free, allowing it to swing out and down to open.



Control Compartment Access -
SIT Millivolt Control Valve Shown

Figure 1

To ease door closure, depress the catches to place them in their retracted position, then close the door.

Millivolt appliances are fitted with either of the gas control valves shown in *Figure 2 (SIT) or Figure 3 (Honeywell) on page 4*.

On these systems, the piezo ignitor, Hi/Lo flame adjustment knob, and pilot and main gas ON/OFF control knob are located on gas valve

To light millivolt appliances refer to the detailed lighting instructions found in both English and French on **pages 12 and 13** of these instructions respectively. **Lighting instructions may also be found on the pullout label attached to the gas control valve located within the gas control compartment. See Figure 2 (SIT) or Figure 3 (Honeywell) on page 4** to locate the piezo ignitor used with your appliance.

These appliances may be fitted with an optional ON/OFF Rocker Switch for appliance ON/OFF control. The optional ON/OFF Rocker switch will be installed at either the right or the left side of the Piezo Ignitor on the Piezo Bracket, just beneath the valve. Once the pilot is lighted, the ON/OFF rocker switch will control the appliance ON/OFF operation. To operate: Toggle the switch between its ON and OFF positions.

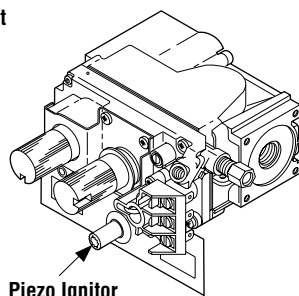
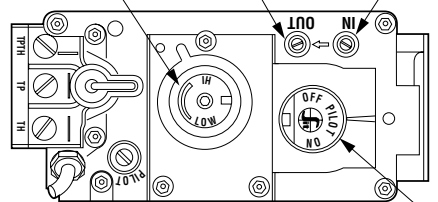
If your millivolt appliance is equipped with an optional remote wall switch or remote control kit and the pilot is lit, the appliance main burner may be turned on and off with the wall switch or remote control.

Variable Flame Height

1. All appliances are equipped with a variable gas control valve. Flame height for these models may be adjusted through a range between fixed low and high settings, alternately, while the appliance is in operation. Adjust the flame height as desired after lighting the appliance by rotating the variable adjustment control knob located on the front of the valve (see *Figure 2 (SIT) or Figure 3 (Honeywell)*).

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.

Variable Flame Height Adjustment Inlet Pressure Port
Manifold Pressure Port



Piezo Ignitor
Main Gas Control Knob

Optional Burner ON/OFF
Rocker Switch Location

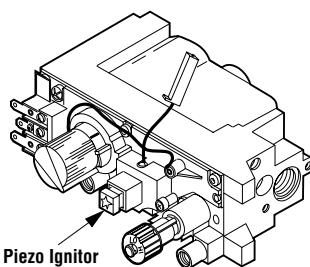
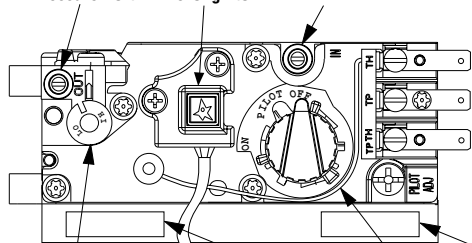
Factory-Installed Blower ON/OFF
Rocker Switch Location

Piezo Ignitor

Figure 2

SIT Millivolt Gas Valve

Manifold Pressure Port Piezo Ignitor Inlet Pressure Port



Piezo Ignitor
Optional ON/OFF Rocker Switch
Location (One of Two Places)

Variable Flame Height Adjustment
Optional Burner ON/OFF
Rocker Switch Location
Main Gas Control Knob

Figure 3

Honeywell Millivolt Gas Valve

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, these appliances have a continuous burning pilot flame. Exercise caution when using products with combustible vapors.

Glass Cleaning

It will be necessary to clean the glass periodically. During start-up it is normal for condensation to form on the inside of the glass. This can cause lint, dust and other airborne particles to cling to the glass surface. Also initial paint curing may deposit a slight film on the glass. It is therefore recommended that the glass be cleaned two or three times with a non-ammonia household cleaner and warm water (a gas fireplace glass cleaner is recommended). After that the glass should be cleaned two or three times during each heating season, depending on the circumstances present.

Note: Clean glass after first two weeks of operation.

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

CAUTION: DO NOT ATTEMPT TO TOUCH THE FRONT ENCLOSURE GLASS WITH YOUR HANDS WHILE THE FIREPLACE IS IN USE.

Maintenance

The appliance and venting system should be thoroughly inspected before initial use and at least annually by a qualified service technician. However, more frequent periodic inspections and cleanings should be performed by the homeowner. **Homeowner must contact a qualified service technician at once if any abnormal condition is observed.**

Refer to the maintenance schedule for maintenance tasks, procedures, periodicity and by whom they should be performed. Always verify proper operation of the appliance after servicing.

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

Front Glass Enclosure Panel, Removal and Installation.

WARNING: NEVER OPERATE THE APPLIANCE WITHOUT THE FRONT GLASS ENCLOSURE PANEL IN PLACE AND SECURE. DO NOT OPERATE APPLIANCE WITH FRONT GLASS CRACKED, BROKEN OR MISSING. REPLACEMENT MUST BE DONE BY A LICENSED OR QUALIFIED SERVICE TECHNICIAN.

These are direct-vent appliances. They are designed to operate only when the front glass enclosure panel is installed. Generally the front glass enclosure panel should not be removed except to gain access to the components within the firebox, and the appliance may only be operated without the front glass enclosure panel in place for very brief periods of time during appliance checkout and adjustment. Be sure that the flame appearance will be diminished while the front glass enclosure panel is removed.

WARNING: HANDLE THE GLASS WITH EXTREME CARE! TEMPERED GLASS IS SUSCEPTIBLE TO DAMAGE (SCRATCHES, FOR EXAMPLE)– HANDLE GLASS DOORS (GLASS ENCLOSURE PANELS) GENTLY WHILE REINSTALLING THEM.

Maintenance Schedule

Annually (Before the onset of the Burning Season)

Maintenance Task	Accomplishing Person	Procedure
Inspecting/Cleaning Burner, Logs and Controls	Qualified Service Technician	Inspect valve and ensure it is properly operating. Check piping for leaks. Vacuum the control compartment, fireplace logs and burner area.
Check Flame Patterns and Flame Height	Qualified Service Technician	Refer to Figure 6 on page 7 and verify the flame pattern and height displayed by the appliance conforms to the picture. Flames must not impinge on the logs.
Inspecting/Cleaning Pilot and Burner	Qualified Service Technician	Refer to Figure 8 (SIT) or Figure 9 (Honeywell) on page 7 . Remove any surface build-up on pilot and burner assembly. Wipe the pilot nozzles, thermocouple and thermopile.
Checking Vent System	Qualified Service Technician	Inspect the vent system at the top and at the base (within the firebox) for signs of blockage or obstruction. Look for any signs of dislocation of the vent components.
Appliance Checkout	Qualified Service Technician	Perform the appropriate appliance checkout procedure detailed in this manual.
Replacing Rockwool Ember Materials		Remove old ember materials and vacuum the screened rockwool placement area. Place new rockwool as described in this document.

Periodically (After the Burning Season)

Maintenance Task	Accomplishing Person	Procedure
Cleaning Firebox Interior	Homeowner	Carefully remove logs, Rockwool and volcanic stone if used. Vacuum out interior of the firebox. Clean firebox walls and log grate. Replace logs, Rockwool and volcanic stone as detailed in this manual.
Check Flame Patterns and Flame Height	Homeowner	Refer to Figure 6 on page 7 and verify the flame pattern and height displayed by the appliance conforms to the picture. Flames must not impinge on the logs.
Checking Vent System	Homeowner	Inspect the vent system at the top and at the base (within the firebox) for signs of blockage or obstruction. Look for any signs of dislocation of the vent components.
Cleaning Front Glass Enclosure Panel	Homeowner	Clean as necessary following the directions provided in this manual. DO NOT TOUCH OR ATTEMPT TO CLEAN GLASS WHILE HOT.

Refer to *Figure 3* and remove the front glass enclosure panel as follows:

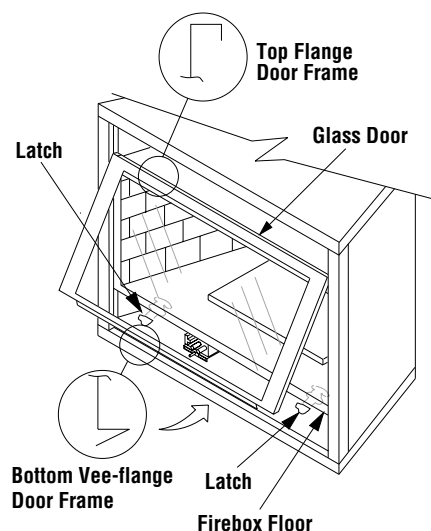


Figure 4

1. Remove the top louver assembly or radiant panel.
2. Open the hinged drop-down control compartment panel.

WARNING: NO NOT ATTEMPT TO SUBSTITUTE THE MATERIALS USED ON THIS DOOR, OR REPLACE CRACKED OR BROKEN GLASS WITH ANY MATERIALS OTHER THAN THOSE PROVIDED BY THE APPLIANCE MANUFACTURER.

THE GLASS DOOR OF THIS APPLIANCE MUST ONLY BE REPLACED AS A COMPLETE UNIT AS PROVIDED BY THE MANUFACTURER. DO NOT ATTEMPT TO REPLACE BROKEN, CRACKED OR CHIPPED GLASS SEPARATELY.

3. Locate the two (2) latches at the top of the control compartment and disengage them from the floor frame bottom Vee-flange, pulling down on their handles to open them.
4. Swing the bottom of the door out and raise it slightly to lift the top flange of the door frame away from the appliance.

To install the front glass enclosure panel, proceed as follows:

1. Retrieve the glass door frame. Visually inspect the gasket on the backside of the panel. The gasket surface must be clean, free of irregularities and seated firmly.

2. Position the door frame in front of the firebox opening and engage the top flange over the lip at the top of the firebox opening.

3. Swing the door down and back. Ensure the gasket seats evenly as the door draws shut. Engage the Vee-flange at the bottom of the door with the latches and close the latches to secure the door.

4. Reinstall the top louver assembly or radiant panel.

Burner Adjustments

The following paragraphs address burner 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 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 if the flames impinge on any of them.

If the logs are properly positioned and sooting conditions exist, the air shutter opening on the main burner tube should be adjusted. Normally, the more offsets in the vent system, the greater the need for the air shutter to be opened further.

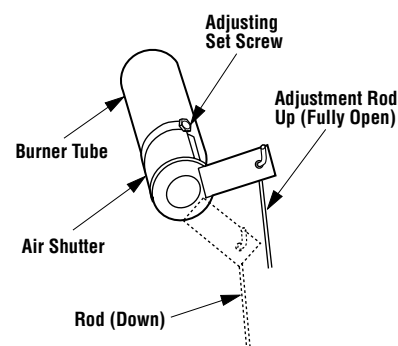
WARNING: AIR SHUTTER ADJUSTMENT SHOULD ONLY BE PERFORMED BY A QUALIFIED PROFESSIONAL SERVICE TECHNICIAN.

ENSURE THAT THE FRONT GLASS PANEL IS IN PLACE AND SEALED DURING ADJUSTMENT.

Adjustment

CAUTION: THE ADJUSTMENT ROD AND NEARBY APPLIANCE SURFACES ARE HOT. EXERCISE CAUTION TO AVOID INJURY WHILE ADJUSTING FLAME APPEARANCE.

To adjust the flame, move the adjustment rod up or down (located in the lower control area). Position the air shutter to the nominal setting (*Figure 5*). Allow the burner to operate for at least 15 minutes. Observe the flame continuously. If it appears weak or sooty as previously described, adjust the air shutter by pushing or pulling on the adjustment rod until the flame appearance is as desired.



Nominal Air Shutter Settings (Top Vent Applications)
 Natural Gas - $\frac{3}{32}$ " (2.39 mm) Open
 Propane Gas - $\frac{1}{8}$ " (3 mm) Open

Nominal Air Shutter Settings (Rear Vent Applications)
 Natural Gas - $\frac{3}{32}$ " (2.39 mm) Open
 Propane Gas - $\frac{3}{16}$ " (9.52 mm) Open

Figure 5

The adjustment rod and associated adjustable air shutter is patented technology. Flame adjustments can be made quickly and accurately to taste without the need of disassembling the appliance and waiting for 30 minutes after each adjustment.

Units burning propane may exhibit a flame pattern that may candle or appear stringy. If this is problematic or persists as the appliance is continually operated, adjust the air shutter closed as described in the previous paragraphs. Operate the appliance for a period of time as the effect diminishes, ensuring that the appliance does not develop sooty flames.

When satisfied that the appliance operates properly, proceed to finish the installation. Leave the control knob in "ON" position and turn the remote switch "OFF." Close the lower control compartment door.

Log Placement

WARNING: LOGS GET VERY HOT AND WILL REMAIN HOT UP TO ONE HOUR AFTER GAS SUPPLY IS TURNED OFF. HANDLE ONLY WHEN LOGS ARE COOL. TURN OFF ALL ELECTRICITY TO THE APPLIANCE BEFORE YOU INSTALL GRATE AND LOGS.

WARNING: THIS APPLIANCE IS NOT MEANT TO BURN WOOD. ANY ATTEMPT TO DO SO COULD CAUSE IRREPARABLE DAMAGE TO YOUR APPLIANCE AND PROVE HAZARDOUS TO YOUR SAFETY.

WARNING: THE SIZE AND POSITION ON THE LOG SET WAS ENGINEERED TO GIVE YOUR APPLIANCE A SAFE, RELIABLE AND ATTRACTIVE FLAME PATTERN. ANY ATTEMPT TO USE A DIFFERENT LOG SET IN THE FIREPLACE WILL VOID THE WARRANTY AND WILL RESULT IN INCOMPLETE COMBUSTION, SOOTING, AND POOR FLAME QUALITY.

Carefully position the ceramic fiber logs and twigs over the burner as shown in **Figure 5**. For more detailed log placement instructions, see those provided in the LOG PLACEMENT GUIDE accompanying this document.

Proper twig placement is critical to prevent sooting. Twigs should be placed in the gaps between the flame peaks and should be positioned so that at no time they impinge the flames.

Glowing Embers (Rockwool) Placement

Remove the replacement rockwool from the packaging and tear into nickel size pieces (**Figure 6**). Spread along the front edge of the front burner over the screen assembly. Do not use more than is necessary.

When properly positioned, the rockwool will unevenly cover approximately 85% of the gap between the front burner and the burner screen with no appreciable openings.

For more detailed glowing ember placement instructions, see those provided in the LOG PLACEMENT GUIDE accompanying this document.



Figure 6



Figure 7

Decorative Volcanic Stone Placement (See Figure 6)

Spread this Decorative Volcanic Stone evenly over the bottom surface of the appliance firebox bottom plate as desired to achieve an esthetically pleasing appearance. For best results, spread in a non-uniform manner while ensuring complete coverage of the black sheet-metal surface.

Note: Do Not place decorative volcanic stone on top of the gas burner where it will block the burner ports.

SIT and Honeywell 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) and the top $\frac{1}{8}$ " min (tip) of the quick drop out thermocouple should be engulfed in the pilot flame. The flame should project 1" (25 mm) beyond the hood at all three ports (**Figure 9 - SIT, Figure 10 - Honeywell**).

To light the burner, refer to the lighting instructions on **pages 11 and 12** for Honeywell and SIT millivolt gas valves).

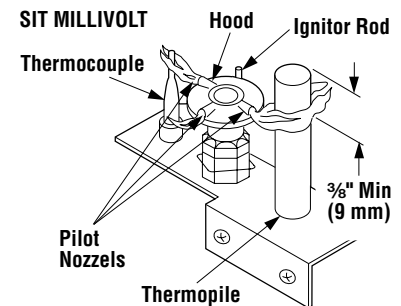


Figure 8

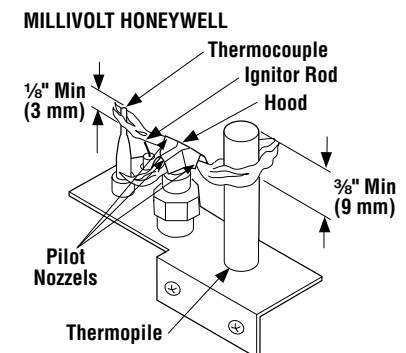
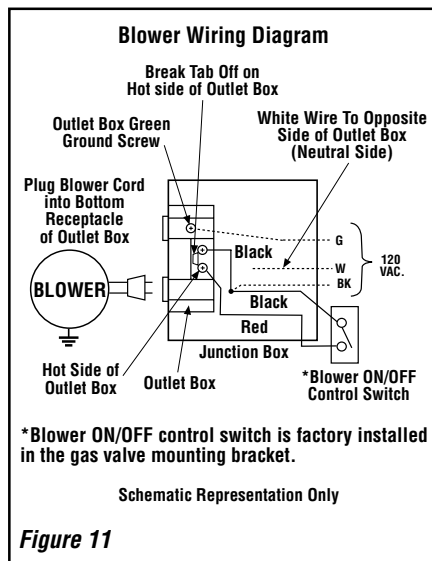
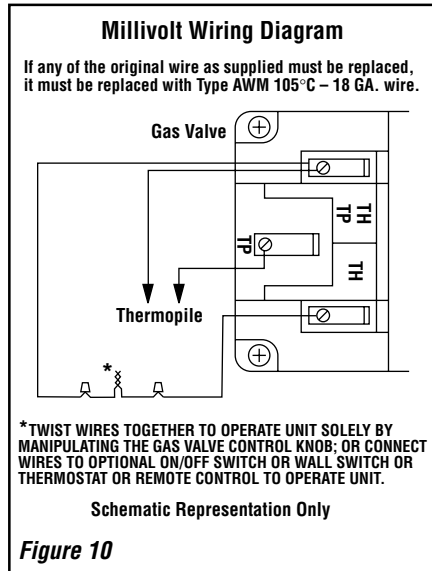


Figure 9

WIRING DIAGRAMS

Wiring diagrams are provided here for reference purposes only. This information is also provided on schematics attached directly to the appliance on a pullout panel located within the control compartment.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS APPLIANCE OPERATION.



WARRANTY

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

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

PRODUCT REFERENCE INFORMATION

We recommend that you record the following important information about your fireplace.

Your Fireplace's Model Number _____

Your Fireplace's Serial Number _____

The Date On Which Your Fireplace Was Installed _____

The Type of Gas Your Fireplace Uses _____

Your Dealer's Name _____

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.

To obtain warranty service, you are required to show the servicer a bill of sale of the appliance or other evidence of purchase to establish the original date of purchase and proof of ownership. If you suspect that a defect exists in your fireplace system and/or accessories or are in need of service, please contact the installer of the unit to obtain assistance. If you encounter any problems or have any questions concerning the installation or application of this system, please contact your distributor directly. If unsuccessful, please contact a NORDYNE dealer or NORDYNE distributor in your area. If unable to obtain local assistance, please write or call:

NORDYNE Warranty Department
P.O. Box 8809
O'Fallon, MO 63366-8809

Collect calls will not be accepted.

(636) 561-7300
www.nordyne.com

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 distributor or dealer. Parts will be shipped at prevailing prices at time of order.

ACCESSORY COMPONENTS



Remote Control System H0250 RCF

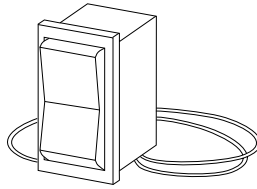
**Builder Remote Control System
(Model RCF)**

The Model RCF (Standard) Remote Control System, features a simplistic on/off control function for the fireplace. This model includes a hand-held transmitter, a remote receiver with wall-mount coverplate and all hardware required to install the unit. The remote receiver can be wall or hearth mounted.

The transmitter has ON and OFF functions that are activated by pressing either button on the face of the transmitter. When a button on the transmitter is pressed, a signal light illuminates briefly to verify that a signal has been sent.

The Model RCF is designed to operate with all millivolt ignition systems, as well as electronic ignition systems. It may be installed with use for either natural or propane gas appliances. The RCF offers ease of installation and allows you to execute on-off commands to the fireplace effortlessly with one simple motion.

The Model RCF comes complete with detailed operating instructions.



Rocker Switch Kit 80L41 FRS

Optional on Unit Rocker Switch

An optional rocker switch kit can be installed directly on these appliances to provide for On and Off operation in lieu of a wall switch. This kit is designed to install in the lower control compartment out of view and is perfect for use in high volume areas such as lobbies and model homes where limited access to the appliance On/Off switch is desirable. This kit can be retrofitted to previously installed appliances and may be temporarily installed in place of other switch circuitry.

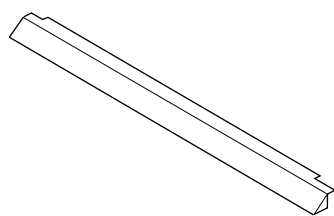


Touch-Up Paint Kit (Black) 90L73 FTPK-B

Touch-Up Paint Kit

Repair of minor scratches and discoloration of the appliance black painted surfaces may be accomplished with the touch-up paint kit.

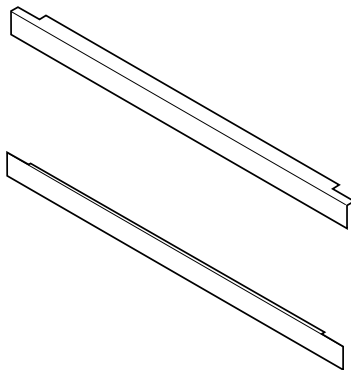
ACCESSORY COMPONENTS



Brass Finish Hood Kit 14M91 FHTK35-B

Brass Hood Kits

Attractive hoods are available in two styles to be used on the these appliances. These hoods are designed to be fitted to the face of the appliance. In addition to providing an aesthetically pleasing appearance to your appliance installation, the hood reduces heat effects to decorative mantles and finish materials located above the fireplace opening. The hood kit replaces the standard hood that comes with these appliances and snaps into place. These kits can be retrofitted to previously installed appliances.



Door Frame Kit 14M92 FDTK35-B2
Brass Finish

Door Frame Kit

A decorative door frame kit is available for use with these appliances. The FDTK35-B2 is designed to attach directly to the front face of the appliance at its extreme edges. The FDTK35-B2 provides a picture frame finish for the appliance 2 1/2" wide. The door frame kit can be retrofitted onto previously installed appliances.

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

TROUBLESHOOTING THE MILLIVOLT GAS CONTROL SYSTEM

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

Important: Valve system troubleshooting should only be accomplished by a qualified service technician.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Spark ignitor will not light pilot after repeated triggering of ignitor 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 ignitor 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 (Figure 8 on page 7 - SIT, Figure 9 on page 7 - Honeywell).
	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 (thermocouple).	Check pilot flame, it must impinge on thermocouple (Figure 8 on page 7 - SIT, Figure 9 on page 7 - Honeywell). Clean and/or adjust pilot for maximum flame impingement on thermocouple. Ensure that the connection between the valve and thermocouple 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 thermocouple (Figure 8 on page 7 - SIT, Figure 9 on page 7 - Honeywell).

LIGHTING INSTRUCTIONS – HONEYWELL AND SIT MILLIVOLT GAS VALVE

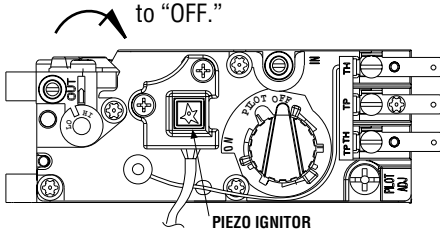
FOR YOUR SAFETY READ BEFORE LIGHTING

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

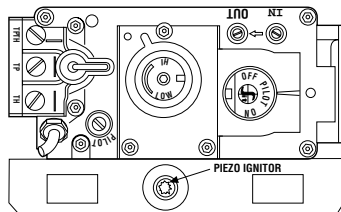
- A.** This appliance has a pilot which must be lighted with a piezo ignitor. When lighting the pilot, follow these instructions exactly.
- B. BEFORE OPERATING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the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



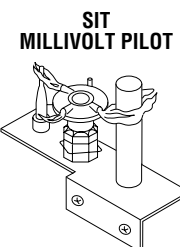
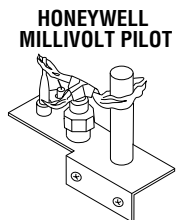
**HONEYWELL
MILLIVOLT
GAS VALVE**



**SIT
MILLIVOLT
GAS VALVE**

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



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 – VANNE GAZ MILLIVOLT HONEYWELL ET SIT

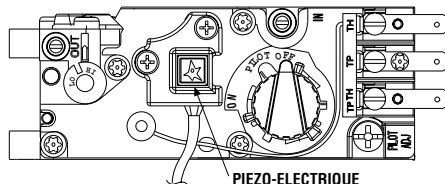
POUR VOTRE SÉCURITÉ, LISEZ CES INSTRUCTIONS AVANT L'ALLUMAGE

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

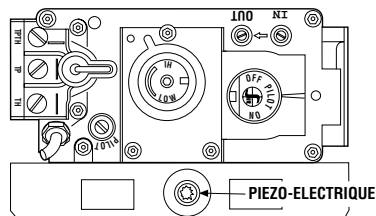
- A. Cet appareil est muni d'une veilleuse qui doit être allumée avec un allumeur piézo-électrique. Lorsque vous allumez la veilleuse, suivre exactement ces instructions.
- B. **AVANT L'ALLUMAGE:** Assurez-vous que vous ne détectez aucune odeur de gaz autour de l'appareil ainsi que près du sol; certains gaz, étant plus lourds que l'air, descendent au niveau du sol.
VOICI CE QUE VOUS DEVEZ FAIRE SI VOUS DÉCELEZ UNE ODEUR DE GAZ:
 - Éteignez toute flamme visible.
 - 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 du voisin.
- S'il vous est impossible de contacter votre compagnie de gaz, appelez le service des incendies.
- C. N'utilisez que votre main pour manipuler le bouton de réglage du gaz. N'utilisez jamais d'outils. Si le bouton refuse de tourner ou de bouger, n'essayez pas de le réparer. Communiquez immédiatement avec un technicien de service qualifié. Toute tentative pour le forcer ou le réparer, risquerait de provoquer 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 au verso de cette plaque.
2. Ouvrez le compartiment de contrôle du bas.
3. Tournez l'interrupteur mural à la position d'arrêt "OFF".
4. Assurez-vous que la soupape d'arrêt de la canalisation principale est ouverte.
5. Enfoncez 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".



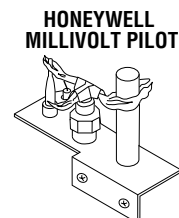
**VANNE GAZ
MILLIVOLT HONEYWELL**



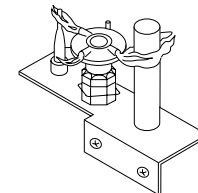
**VANNE GAZ
MILLIVOLT SIT**

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 l'évacuation du gaz. Si vous décelez une odeur de gaz, **ARRÊTEZ!** Retournez au point "B" des consignes de sécurité au verso de cette plaque. Si vous ne remarquez aucune odeur de gaz, passez à l'étape suivante.
7. Enfoncez 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. Enfoncez 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.
11. Au besoin, rebrancher l'appareil au courant électrique et remettre l'interrupteur du brûleur principal à la position "ON" ou régler le thermostat à la température désirée.
12. Si l'appareil ne fonctionne pas, suivre les instructions intitulées "Pour fermer le gaz qui alimente l'appareil" et appeler un technicien ou le fournisseur de gaz.



**SIT
MILLIVOLT PILOT**



POUR FERMER LE GAZ QUI ALIMENTE L'APPAREIL

1. Tournez l'interrupteur mural à la position d'arrêt "OFF". La veilleuse restera allumée jusqu'au retour du service normal.
2. Pour une fermeture complète, tournez l'interrupteur mural à la position d'arrêt "OFF".
3. Ouvrez le compartiment de contrôle du bas.
4. Enfoncez 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". Ne forcez pas le bouton.
5. Fermez le compartiment de contrôle du bas.

REPLACEMENT PARTS LIST

No.	DESCRIPTION	Natural BDM35		Propane BDM35P	
		Part No.	Qty.	Part No.	Qty.
	Gas Fireplace Assembly	–	–	–	–
1.	Hood	LB-91941BZ	1	LB-91941BZ	1
2.	Louver (Top)	LB-92436BZ	1	LB-92436BZ	1
3.	Louver, (Base)	LB-92435BZ	1	LB92435BZ	1
4.	Enclosure, Glass Front (Complete)	LB-92534B	1	LB-92534B	1
5.	Nameplate (Brand)	13M1301	1	13M1301	1
6.	Latch	69L2101	2	69L2101	2
7.	Catch, Door, Magnetic	69L3101	2	69L3101	2
8.	Log Set (Complete)	69L6901	1	69L6901	1
9a.	Burner Assembly	69L0901	1	69L0901	1
9b.	Burner, Bracket	LB-92357	2	LB-92357	2
9c.	Burner, Bracket	LB-92619	1	LB-92619	1
10.	Ember Screen	LB-92438B	1	LB-92438B	1
11.	Log Grate Assembly	LB-92441B	1	LB-92441B	1
12.	Orifice, Main Burner	37L7001	1	99K7901	1
13.	Blower	80L84	1	80L84	1
14.	Bag of Rockwool	88L53	1	88L53	1
15a.	Surround Piece - Top	LB-95665	1	LB-95665	1
15b.	Surround Piece - Sides	LB-95666	2	LB-95666	2
15c.	Surround Piece - Bottom	LB-95667	1	LB-95667	1
16.	Decorative Volcanic Stone	80L42	1	80L42	1
17.	ON/OFF Rocker Switch	80L41	1	80L41	1
18.	Flexible Gas Line Connector	93L32	1	93L32	1

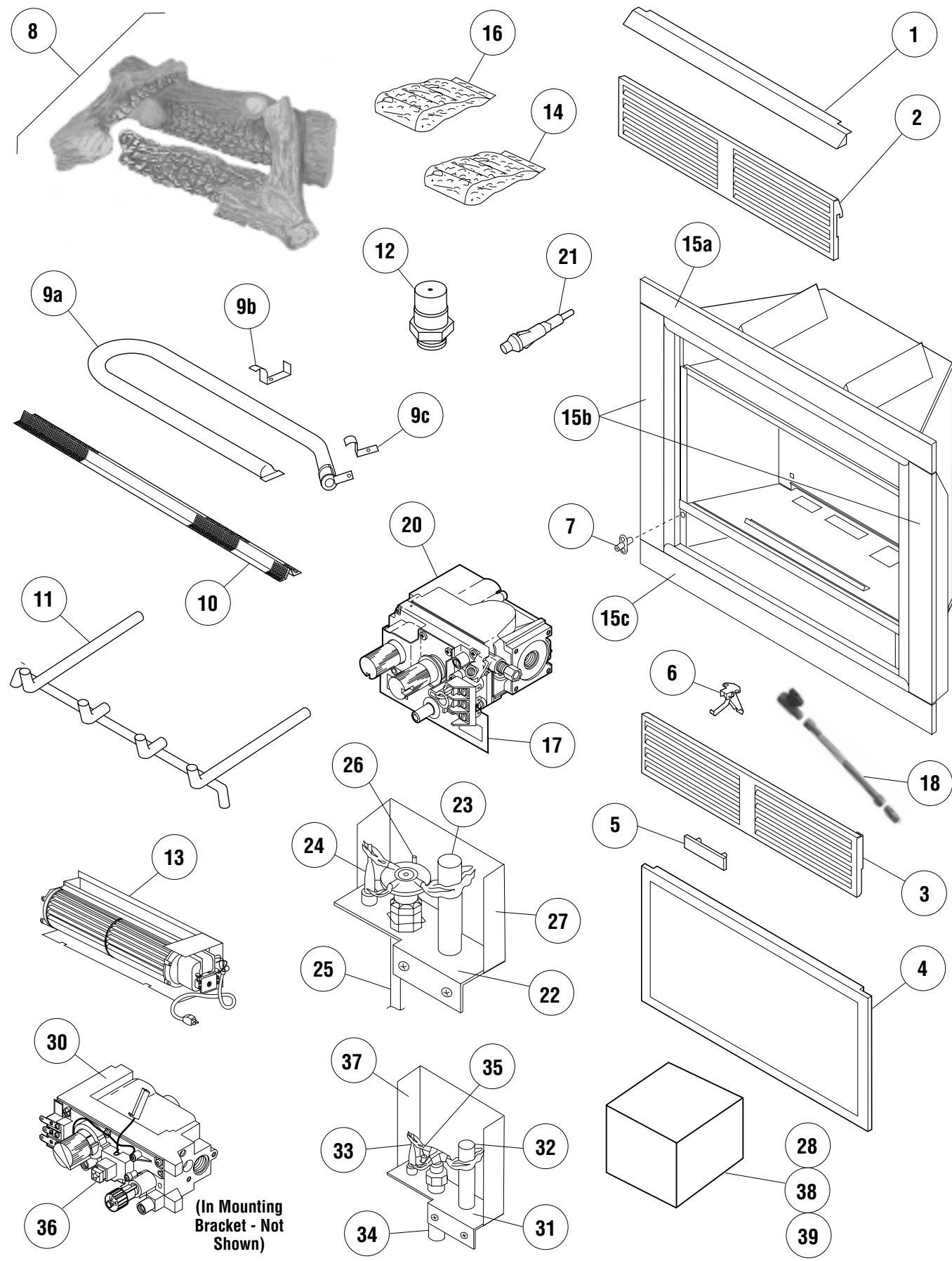
GAS CONTROLS – SIT MILLIVOLT

No.	DESCRIPTION	Natural		Propane	
		Part No.	Qty.	Part No.	Qty.
20.	Gas Valve - SIT	43K0701	1	88J5301	1
21.	Piezo Igniter	10K8601	1	10K8601	1
22.	Pilot Assembly	69L1701	1	69L1801	1
23.	Pilot Generator	60J7901	1	60J7901	1
24.	Thermocouple	74L5701	1	74L5701	1
25.	Pilot Tube	74L5601	1	74L5601	1
26.	Electrode And Cable	74L5801	1	74L5801	1
27.	Pilot Shield	LB-92706	1	LB-92706	1
28.	Natural To Propane Gas Conversion Kit	LB-97488A	1	–	1

GAS CONTROLS – HONEYWELL MILLIVOLT

No.	DESCRIPTION	Natural		Propane	
		Part No.	Qty.	Part No.	Qty.
30.	Gas Valve	82L8601	1	82L8701	1
31.	Piezo Assembly	67L7001	1	67L7001	1
32.	Pilot Generator	60J7901	1	60J7901	1
33.	Thermocouple	67L6701	1	67L6701	1
34.	Pilot Tube	67L6801	1	67L6801	1
35.	Electrode And Cable	67L8701	1	67L8701	1
36.	Pilot Ignitor	24M8901	1	24M8901	1
37.	Pilot Shield	LB-92706	1	LB-92706	1
38.	Natural To Propane Gas Conversion Kit	LB-97488B	1	–	1
39.	Propane To Natural Gas Conversion Kit	–	1	LB-97488C	1

REPLACEMENT PARTS



(In Mounting
Bracket - Not
Shown)

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

The manufacturer 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.

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