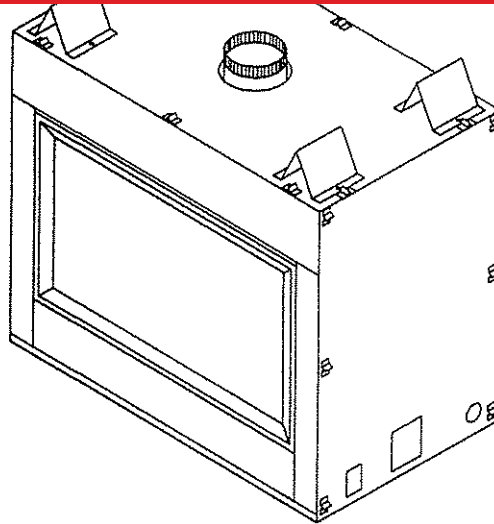




This appliance has been retired.
Service parts pages within have been removed.
For replacement parts, please refer to the individual
service parts list located on the brand websites.



U.S. PATENTS 5,429,495 and PATENTS PENDING

MODEL ST-42FL

INSTALLATION AND OPERATION INSTRUCTIONS



**A.G.A. Design Certified
and
CGA Certified**



THIS MANUAL MUST BE USED FOR INSTALLATION AND RETAINED BY HOMEOWNER FOR
OPERATION AND MAINTENANCE.

HEAT-N-GLO FIREPLACE PRODUCTS, INC.

6665 W. Hwy 13 Savage, MN 55378 (612)890-8367



INSTALLATION AND OPERATION INSTRUCTIONS

PLEASE READ THIS MANUAL BEFORE INSTALLING AND USING THE FIREPLACE

MODEL ST-42FL FIREPLACE IS A.G.A. DESIGN CERTIFIED AND CGA CERTIFIED FOR NATURAL GAS AND PROPANE.

FOR YOUR SAFETY

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

FOR YOUR SAFETY

What to do if you smell gas:

- Extinguish any open flame.
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone 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.

DUE TO HIGH TEMPERATURES, THE APPLIANCE SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.

DO NOT PLACE CLOTHING OR OTHER FLAMMABLE MATERIAL ON OR NEAR THE APPLIANCE. CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURE AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION.

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

IMPORTANT: Read all instructions carefully before starting installation. Failure to follow these installation instructions may result in a possible fire hazard and will void the warranty.

Save this Manual for future reference.

Copyright 1996, Heat-N-Glo Fireplace Products, Inc., 6665 W. Hwy 13, Savage, MN 55378 Printed in U.S.A.

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1.0 INTRODUCTION

Model ST-42FL is a top-venting Vented Decorative Gas Appliances and is designed to operate by drawing combustion air from inside the living space. Exhaust gases are expelled to the outside of the building by using 6-inch B-type, listed single wall rigid, or listed single wall flexible gas vent attached to the top flue vent collar of the unit. These models **MUST** use a B-type vent system within combustible construction; or listed single wall rigid or flexible gas vent within non-combustible construction. **NO** other vent systems may be used. See the venting section 3.1 of this manual.

WARNING: THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

The control system for this model is a millivolt type. It consists of a gas control valve/regulator, a standing pilot assembly, a thermopile, a piezo ignitor, and an ON/OFF rocker switch. The controls are located in the lower compartment behind the glass door. Access to this compartment is gained by lifting the glass up and pulling it out of the bottom tabs. See Figure 1.

WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL VALVE OR CONTROL WIRING SYSTEM OF THIS UNIT.

Installation must conform to local codes. In the absence of local codes installation must conform with the current National Fuel Gas Code ANSI Z223.1 (in the United States) or with the current installation code CAN/CGA B-149 (in Canada). The appliance when installed must be electrically grounded in accordance with local codes; in absence of local codes, with the current National Electric Code ANSI/NFPA NO. 70 (in The United States) or with the current CSA C 22.1 Canadian Electric Code (in Canada).

NOTE: INSTALLATION AND REPAIR SHOULD BE DONE BY A QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A PROFESSIONAL SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIAL ETC. IT IS IMPERATIVE THAT THE UNITS CONTROL COMPARTMENT, BURNERS, AND CIRCULATING AIR PASSAGEWAYS BE KEPT CLEAN TO PROVIDE FOR ADEQUATE COMBUSTION AND VENTILATION AIR.

Provide adequate clearances around air openings into the combustion chamber and allow accessibility clearance for servicing and proper operation (36 inches in front of unit). **NEVER OBSTRUCT THE FRONT OPENINGS OF THE FIREPLACE OR THE VENT CAP ON THE EXTERIOR OF THE HOUSE.**

Minimum clearances in inches to combustibles are: Glass Sides 36, Floor 0, Ends 1/2, Top 4 1/2 (end and top clearances are defined by the standoffs). Minimum distance to the side wall (perpendicular to the front) is 1/2 inch. Minimum distance from the ceiling to the top front of the unit is 36 inches. The ends of the appliance may not be recessed into combustible construction. Minimum clearance to the 6 - inch B-type vent is 1 - inch.

Minimum inlet gas supply pressure for purpose of input adjustment is 5.0 inches water column natural gas and 11.0 inches water column propane. Maximum inlet gas supply pressures is 14.0 inches w.c. natural gas and propane. For the purpose of input adjustment, inlet gas supply pressure should be 7.0 inches w.c. natural gas and 11.0 inches w.c. propane and manifold pressure should be set at 3.5 inches w.c. and 10.0 inches w.c. respectively.

A 1/8 inch N.P.T. plugged tapping is provided on the outlet side of the gas control for a test gauge connection to measure the manifold pressure. Provisions must be made to attach a test gauge to a 1/8 - inch NPT plugged tapping immediately upstream of the gas supply connection to the appliance to measure inlet pressure.

The appliance and its individual shut off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of 1/2 psig (3.45 kPa).

This 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 (3.45 kPa).

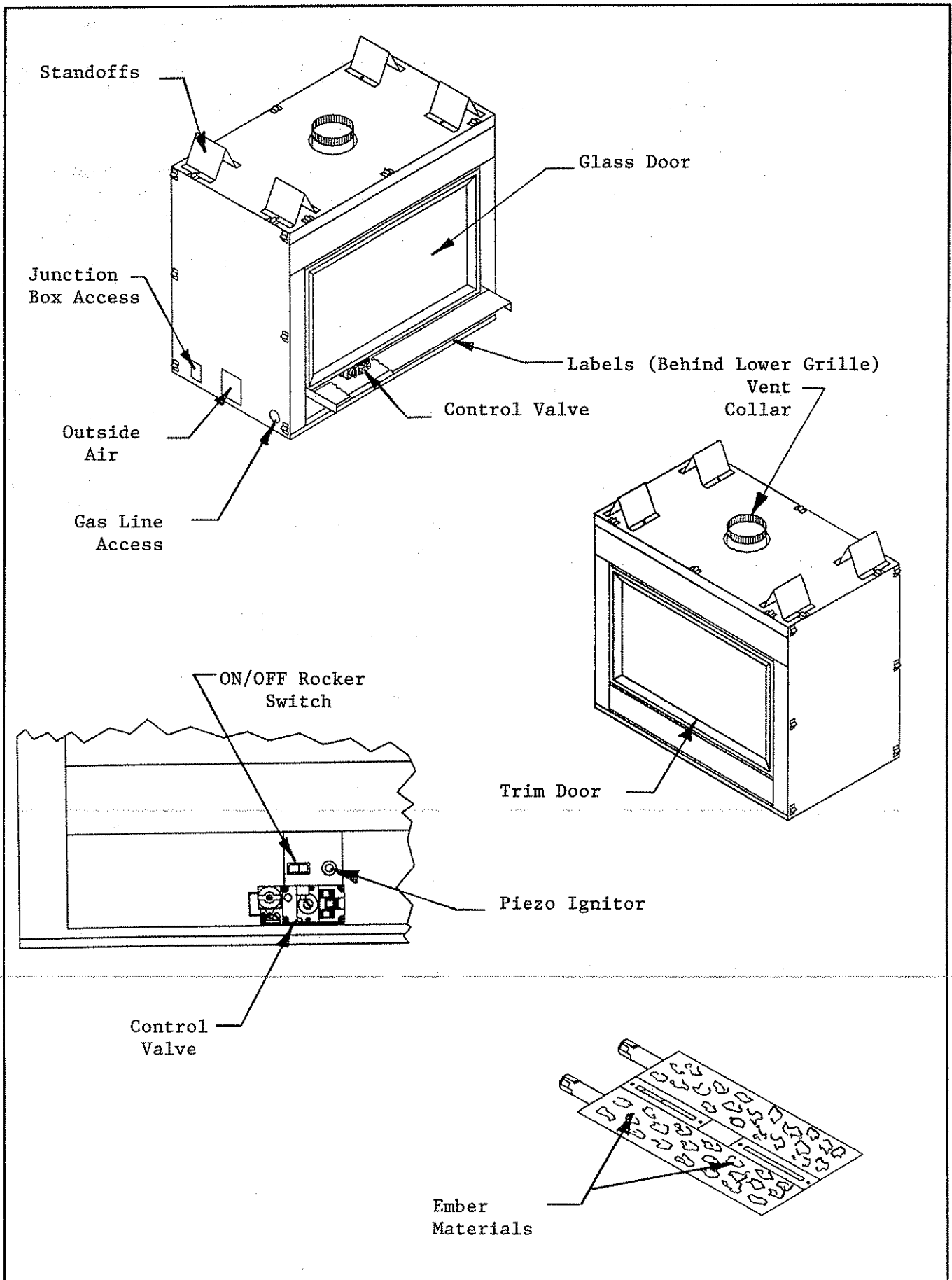


FIGURE 1

2.0 INSTALLATION PRECAUTIONS

This Top Vent Gas Fireplace and its components are tested and safe when installed in accordance with this Installation Manual. Report to your Dealer any parts damaged in shipment, specifically check glass condition. The gas logs are installed in the unit. Read all instructions before starting installation and follow these instructions carefully during installation to insure maximum benefit and safety. Failure to follow them will void your warranty and may present a fire hazard.

The Heat-N-Glo Fireplace Products, Inc. warranty will be voided by, and Heat-N-Glo Fireplace Products, Inc. disclaims any responsibility for, the following actions:

- Installation of any damaged fireplace or vent system component
- Modification of the fireplace or direct vent system Installation other than as instructed by Heat-N-Glo Fireplace Products, Inc.
- Improper positioning of the gas logs or the glass door
- Installation and/or use of any component part not manufactured or approved by Heat-N-Glo Fireplace Products, Inc., not withstanding any independent testing laboratory or other party approval of such component part or accessory.

ANY SUCH ACTION MAY POSSIBLY CAUSE A FIRE HAZARD.

Consult your local building codes.

THIS FIREPLACE MUST NEVER BE ATTACHED TO A CHIMNEY SERVING A SOLID FUEL BURNING APPLIANCE.

The log set is mounted on a metal pan and can be removed and replaced as a set. See Figure 2.

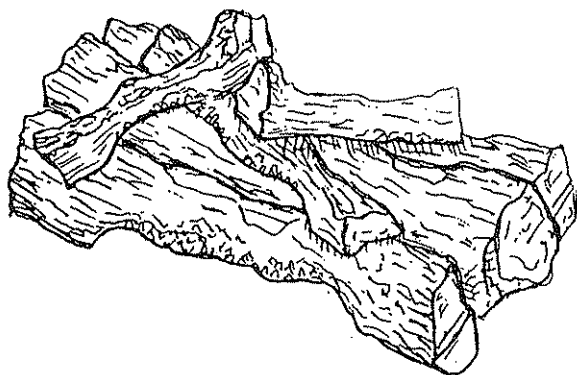


FIGURE 2

NEGATIVE PRESSURE WARNING

When negative pressure is present, an atmospherically vented fireplace (with a draft hood) may not function properly and it may down draft. In the case of a gas appliance, spillage of the combustion gases may occur. **This may create a dangerous carbon monoxide situation in the house.**

The causes of negative pressure to a house can include the following:

- stack effect in the building
- exhaust only appliances (mechanically and atmospherically vented)
- inadequate make up air (which is increasingly more prevalent in new construction)

It is recommended that all top venting non-air tight gas fireplaces have outside air connected to them. See Section 3.6. It is also recommended that the building be mechanically or passively balanced to allow atmospherically vented appliances, such as top vented gas fireplaces with draft hoods, to draft properly. If the home experiences negative pressure or is likely to experience negative pressure, connection to an outside air source is mandatory.

WARNING: THE GLASS FRONT ASSEMBLY MUST BE IN PLACE ON THE FIREPLACE BEFORE THE UNIT CAN BE PLACED INTO SAFE OPERATION.

Prior to first firing, read Operations Instructions section of this manual.

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

Due to high temperature, the appliance should be located out of traffic areas and away from furniture and draperies. Clothing or flammable material should not be placed on or near the appliance.

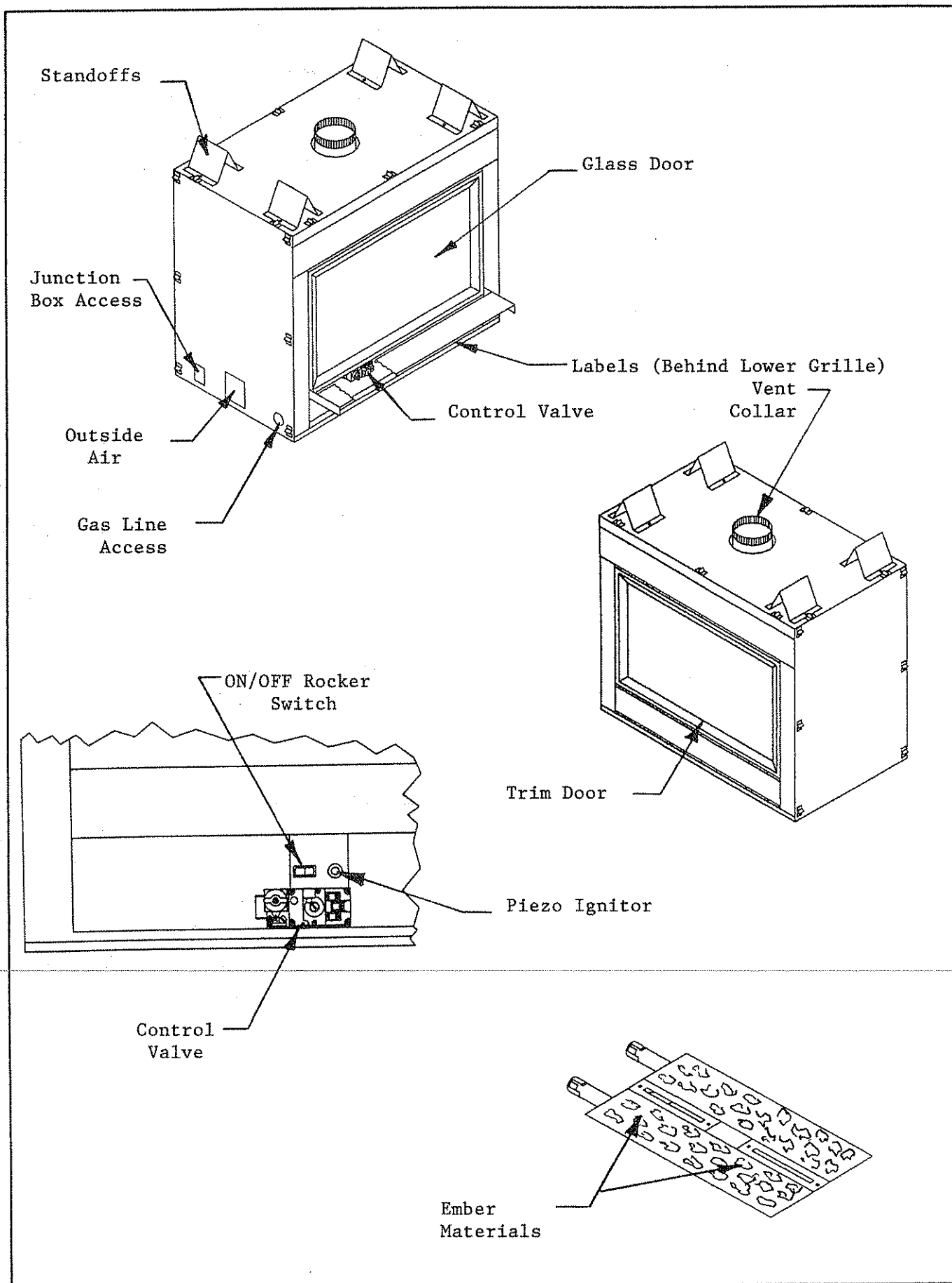


FIGURE 1

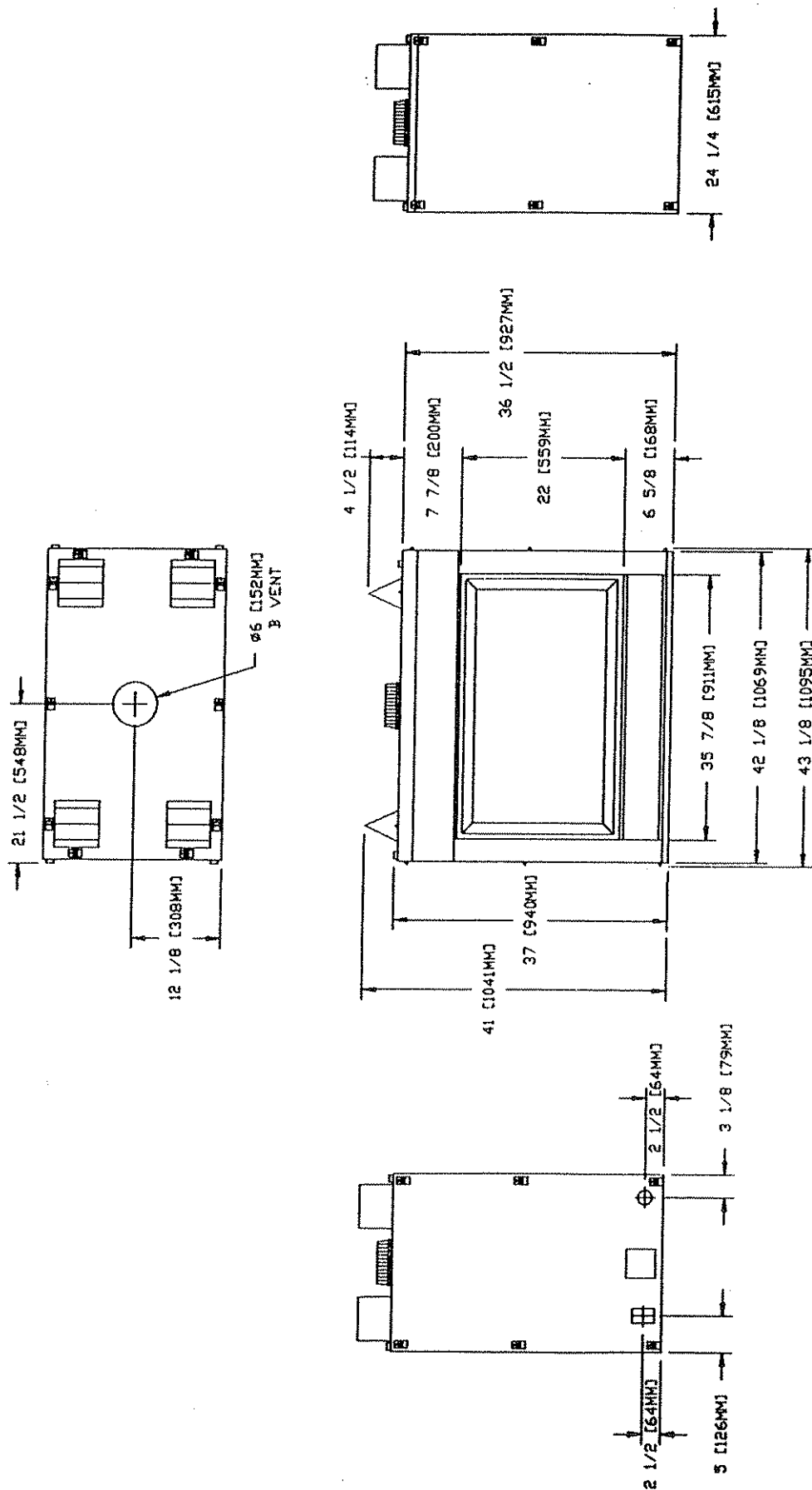


FIGURE 3

2.0 INSTALLATION PRECAUTIONS

This Top Vent Gas Fireplace and its components are tested and safe when installed in accordance with this Installation Manual. Report to your Dealer any parts damaged in shipment, specifically check glass condition. The gas logs are installed in the unit. Read all instructions before starting installation and follow these instructions carefully during installation to insure maximum benefit and safety. Failure to follow them will void your warranty and may present a fire hazard.

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- Installation of any damaged fireplace or vent system component
- Modification of the fireplace or direct vent system installation other than as instructed by Heat-N-Glo Fireplace Products, Inc.
- Improper positioning of the gas logs or the glass door
- Installation and/or use of any component part not manufactured or approved by Heat-N-Glo Fireplace Products, Inc., not withstanding any independent testing laboratory or other party approval of such component part or accessory.

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Consult your local building codes.

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The log set is mounted on a metal pan and can be removed and replaced as a set. See Figure 2.

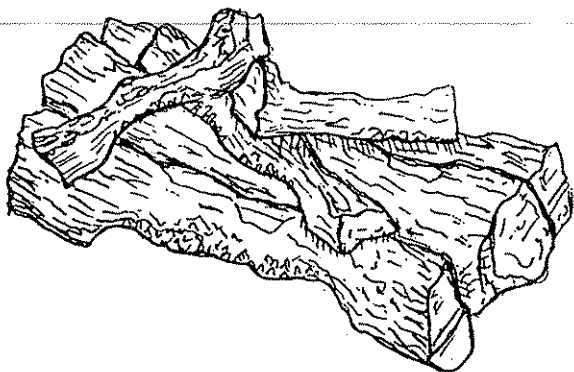


FIGURE 2

NEGATIVE PRESSURE WARNING

When negative pressure is present, an atmospherically vented fireplace (with a draft hood) may not function properly and it may down draft. In the case of a gas appliance, spillage of the combustion gases may occur. **This may create a dangerous carbon monoxide situation in the house.**

The causes of negative pressure to a house can include the following:

- stack effect in the building
- exhaust only appliances (mechanically and atmospherically vented)
- inadequate make up air (which is increasingly more prevalent in new construction)

It is recommended that all top venting non-air tight gas fireplaces have outside air connected to them. See Section 3.6. It is also recommended that the building be mechanically or passively balanced to allow atmospherically vented appliances, such as top vented gas fireplaces with draft hoods, to draft properly. If the home experiences negative pressure or is likely to experience negative pressure, connection to an outside air source is mandatory.

WARNING: THE GLASS FRONT ASSEMBLY MUST BE IN PLACE ON THE FIREPLACE BEFORE THE UNIT CAN BE PLACED INTO SAFE OPERATION.

Prior to first firing, read Operations Instructions section of this manual.

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

Due to high temperature, the appliance should be located out of traffic areas and away from furniture and draperies. Clothing or flammable material should not be placed on or near the appliance.

3.0 INSTALLATION INSTRUCTIONS

In planning the installation for the fireplace it is necessary to determine where the unit is to be installed, the routing of the B-type vent system, and whether optional accessories (remote control, wall switch and/or outside air kit) are desired. Gas supply piping should also be planned.

This model (natural gas and propane) can be installed in a bedroom (in the United States) which has a total volume of unconfined space appropriate to the particular installation. Refer to the National Fuel Gas Code ANSI Z223.1/NFPA 54 - (current edition) The Uniform Mechanical Code - (current edition), and Local Building Officials for the options allowed in obtaining an effective bedroom volume of unconfined space.

The fireplace can be mounted on any of the following surfaces:

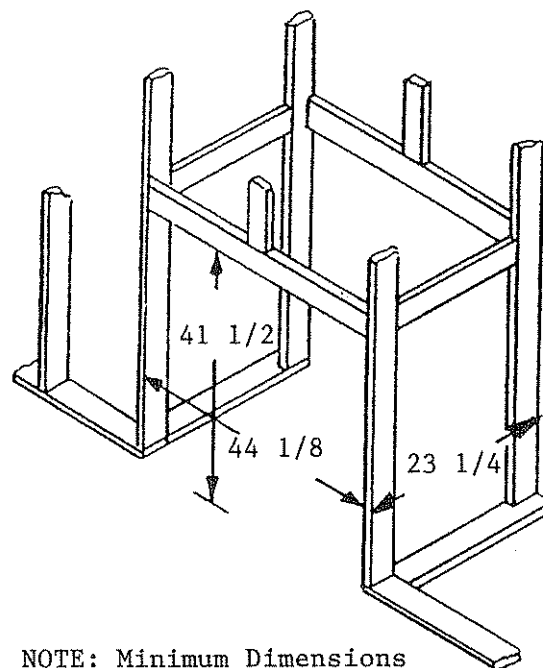
1. A flat combustible surface.
2. A raised wooden platform.
3. Four (4) corner supports.

(Example: Four (4) concrete masonry blocks)
These supports must be positioned so they contact the perimeter edges on the bottom of the unit.

If the fireplace is installed directly on carpeting, tile, or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the unit.

Fireplace framing can be built before or after the fireplace is set in place. Framing should be positioned to accommodate wall covering and fireplace facing material. The fireplace framing should be constructed of 2 x 4 lumber or heavier. The framing headers **MUST** be 12" MINIMUM above the top of the fireplace. Refer to Figure 3 and Figure 4 for fireplace and framing dimensions.

CAUTION: Measure fireplace dimensions, and verify framing methods and wall covering details before framing construction begins.



NOTE: Minimum Dimensions
Shown

FIGURE 4

3.1 INSTALLING THE VENT SYSTEM

3.1.1 POSITIONING THE FIREPLACE

Determine the exact position of the fireplace so that the vent run can be planned. Using a level, make sure the fireplace is properly positioned and squared. The 1/2 - inch stand-offs on the ends of the fireplace may be positioned directly against a combustible wall.

3.1.2 CONNECTING THE VENT SYSTEM COMPONENTS

VENT SYSTEM CONFIGURATION

REQUIRED BEGINNING VERTICAL RISE = 5 Ft.

MAXIMUM TOTAL HORIZONTAL RUN = 13 Ft.

MINIMUM TOTAL VERTICAL RISE = 10 Ft.

MAXIMUM NO. of ELBOWS : 2 - 90 Degree +

4 - 45 Degree

OR

8 - 45 Degree

Plan and install the vent system using the parameters shown above. **WARNING: You must not exceed these parameters and you MUST begin the vent run with 5 feet vertical rise.**

A beginning **MINIMUM** vertical rise of 5 feet of 6 - inch B-Type vent pipe **MUST** be attached to the flue outlet collar. This can be followed by a 90-degree elbow and **MAXIMUM** 13-feet horizontal run, a second 90-degree elbow ending in a **VERTICAL POSITION**, and a **MINIMUM** 5-feet vertical rise ending in a listed termination cap for the vent pipe.

WARNING: There **MUST** be a total vertical rise of 10-feet in **ALL** vent system configurations used on this fireplace. You **MUST NOT** exceed a total maximum horizontal run of 13-feet for the entire vent system. **Avoid using elbows in the vent system if possible.**

Listed single-wall flexible or single-wall rigid gas vent pipe may be attached to this unit if, and only if, the vent run is completely inside non-combustible construction such as a masonry chimney. The flexible or rigid vent must terminate outside of the building, in a vertical position, with a termination cap listed for use with the vent pipe. **Minimum and maximum rises and runs must be followed.** See Figure 6.

NOTE: THE VENT TERMINATION MUST BE IN VERTICAL POSITION.

Consult Local Building Code Officials and Codes for proper vent system installations.

WARNING: THIS GAS FIREPLACE MUST NEVER BE VENTED BY CONNECTING TO A CHIMNEY FLUE SERVING A SEPARATE SOLID FUEL BURNING APPLIANCE.

3.2 PERMANENTLY ANCHORING THE FIREPLACE

To prevent the unit from shifting, the fireplace must be anchored. Use the nailing tabs as shown in Figure 7. Drive a nail or insert a screw through the tabs into framing members.

3.3 CONNECTING THE GAS LINE

The gas fireplace is designed to accept a 1/2 inch gas line for a listed gas appliance. Have the gas line installed by a qualified service person in accordance with all building codes. Consult local building codes to properly size the gas supply line leading to the 1/2 inch hook-up at the unit.

A listed 1/2-inch manual shut-off valve and flexible connector are connected to the 3/8-inch inlet of the control valve. A 1/8-inch N.P.T. plugged tapping, accessible for test gauge connection, should be provided for in the gas supply line leading to the unit's shut-off valve.

Locate the gas line access hole in the left outer casing of the fireplace (Figure 8). Next, insert the gas supply line through the gas line hole from the outside of the fireplace and connect it to the gas valve. Support the control when attaching the pipe so that the pilot line is not bent or torn. After the gas pipe installation complete, check carefully all gas connections for leaks with a soap solution. **DO NOT USE AN OPEN FLAME.** Use insulation to repack the space around the pipe. This should be inserted from the outside of the fireplace and packed tightly to totally seal between the pipe and the outer casing.

NOTE: THE GAS PIPE SHOULD NOT COME IN CONTACT WITH ANY WOOD STRUCTURES UNTIL IT HAS REACHED A POINT AT LEAST 1 INCH AWAY FROM THE FIREPLACE SIDE.

NOTE: THE GAS SUPPLY LINE SHOULD BE PURGED OF ANY TRAPPED AIR PRIOR TO THE FIRST FIRING OF THE UNIT.

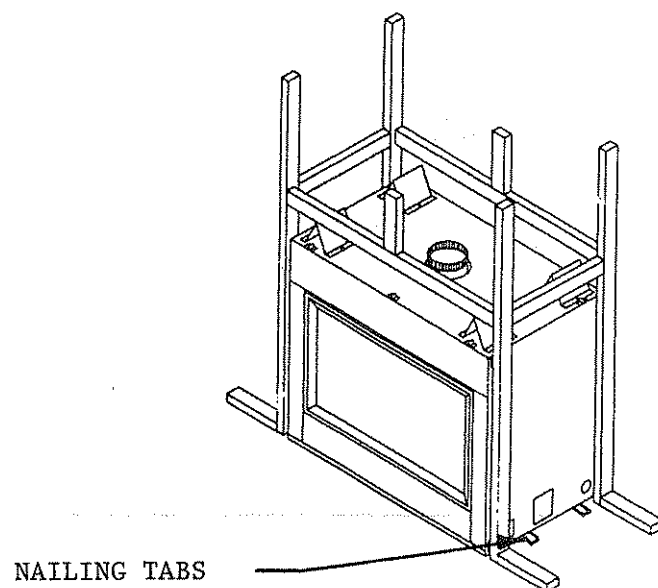


FIGURE 7

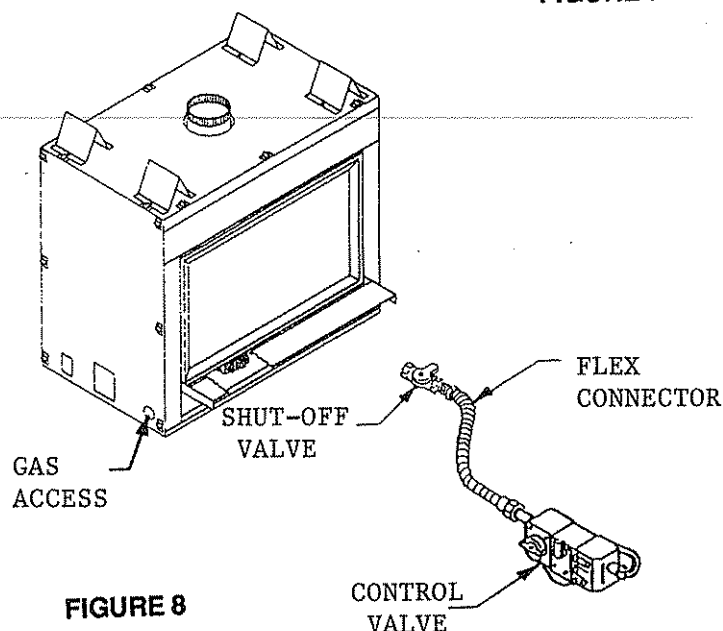


FIGURE 8

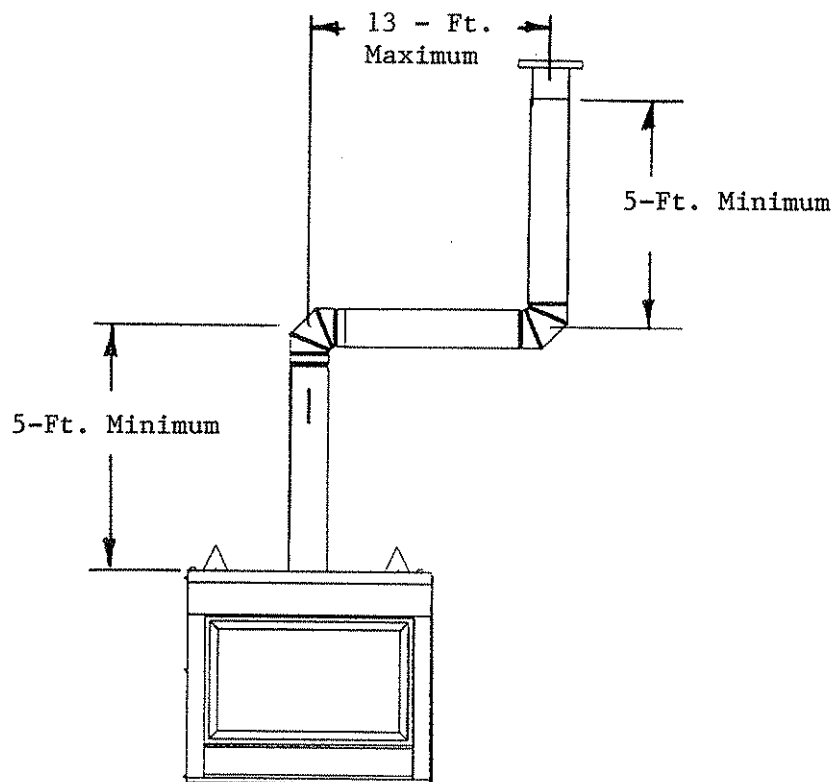


FIGURE 5

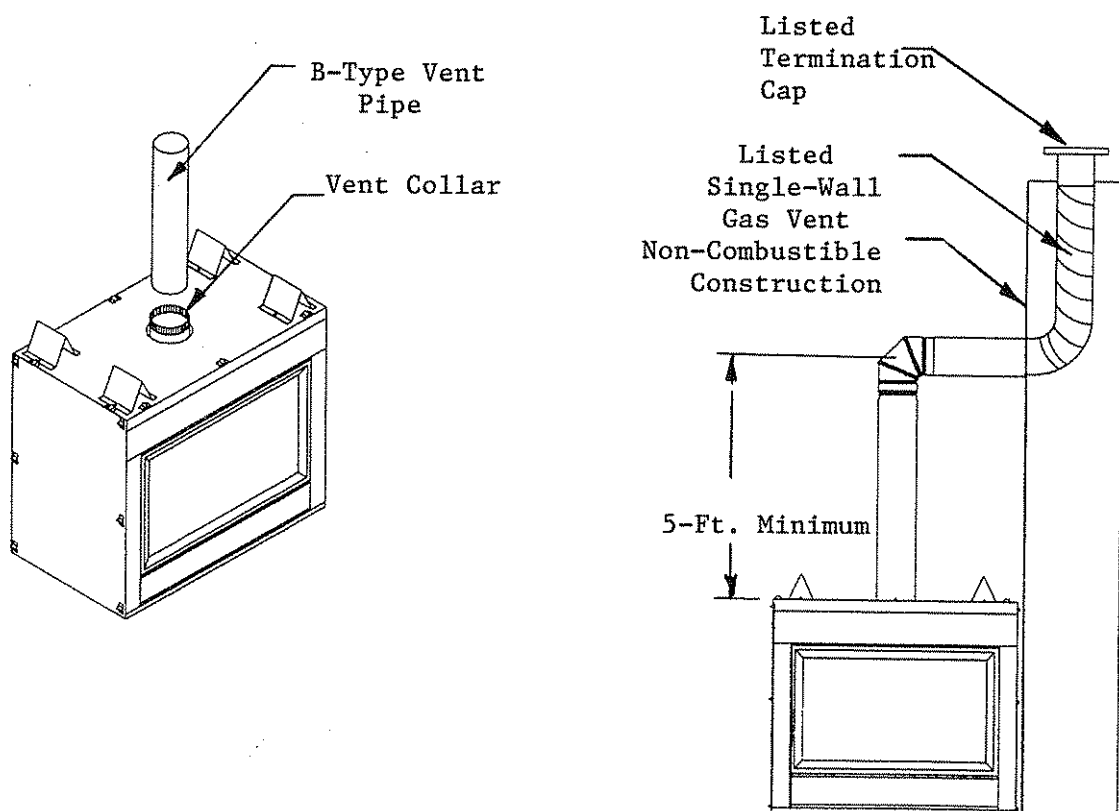


FIGURE 6

3.0 INSTALLATION INSTRUCTIONS

In planning the installation for the fireplace it is necessary to determine where the unit is to be installed, the routing of the B-type vent system, and whether optional accessories (remote control, wall switch and/or outside air kit) are desired. Gas supply piping should also be planned.

This model (natural gas and propane) can be installed in a bedroom (in the United States) which has a total volume of unconfined space appropriate to the particular installation. Refer to the National Fuel Gas Code ANSI Z223.1/NFPA 54 - (current edition) The Uniform Mechanical Code - (current edition), and Local Building Officials for the options allowed in obtaining an effective bedroom volume of unconfined space.

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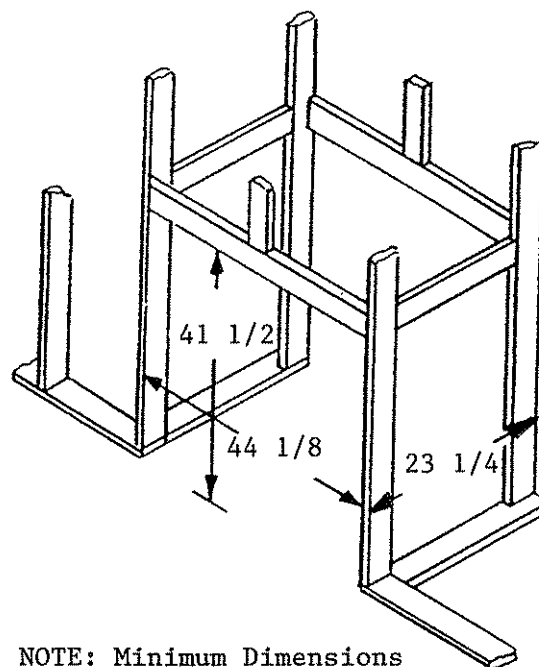
1. A flat combustible surface.
2. A raised wooden platform.
3. Four (4) corner supports.

(Example: Four (4) concrete masonry blocks) These supports must be positioned so they contact the perimeter edges on the bottom of the unit.

If the fireplace is installed directly on carpeting, tile, or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the unit.

Fireplace framing can be built before or after the fireplace is set in place. Framing should be positioned to accommodate wall covering and fireplace facing material. The fireplace framing should be constructed of 2 x 4 lumber or heavier. The framing headers MUST be 12" MINIMUM above the top of the fireplace. Refer to Figure 3 and Figure 4 for fireplace and framing dimensions.

CAUTION: Measure fireplace dimensions, and verify framing methods and wall covering details before framing construction begins.



NOTE: Minimum Dimensions Shown

FIGURE 4

3.1 INSTALLING THE VENT SYSTEM

3.1.1 POSITIONING THE FIREPLACE

Determine the exact position of the fireplace so that the vent run can be planned. Using a level, make sure the fireplace is properly positioned and squared. The 1/2 - inch stand-offs on the ends of the fireplace may be positioned directly against a combustible wall.

3.1.2 CONNECTING THE VENT SYSTEM COMPONENTS

VENT SYSTEM CONFIGURATION

REQUIRED BEGINNING VERTICAL RISE = 5 Ft.

MAXIMUM TOTAL HORIZONTAL RUN = 13 Ft.

MINIMUM TOTAL VERTICAL RISE = 10 Ft.

MAXIMUM NO. of ELBOWS : 2 - 90 Degree +
4 - 45 Degree

OR

8 - 45 Degree

Plan and install the vent system using the parameters shown above. **WARNING: You must not exceed these parameters and you MUST begin the vent run with 5 feet vertical rise.**

A beginning **MINIMUM** vertical rise of 5 feet of 6 - inch B-Type vent pipe **MUST** be attached to the flue outlet collar. This can be followed by a 90-degree elbow and **MAXIMUM** 13-feet horizontal run, a second 90-degree elbow ending in a **VERTICAL POSITION**, and a **MINIMUM** 5-feet vertical rise ending in a listed termination cap for the vent pipe.

WARNING: There **MUST** be a total vertical rise of 10-feet in **ALL** vent system configurations used on this fireplace. You **MUST NOT** exceed a total maximum horizontal run of 13-feet for the entire vent system. **Avoid using elbows in the vent system if possible.**

Listed single-wall flexible or single-wall rigid gas vent pipe may be attached to this unit if, and only if, the vent run is completely inside non-combustible construction such as a masonry chimney. The flexible or rigid vent must terminate outside of the building, in a vertical position, with a termination cap listed for use with the vent pipe. **Minimum and maximum rises and runs must be followed.** See Figure 6.

NOTE: THE VENT TERMINATION MUST BE IN VERTICAL POSITION.

Consult Local Building Code Officials and Codes for proper vent system installations.

WARNING: THIS GAS FIREPLACE MUST NEVER BE VENTED BY CONNECTING TO A CHIMNEY FLUE SERVING A SEPARATE SOLID FUEL BURNING APPLIANCE.

3.2 PERMANENTLY ANCHORING THE FIREPLACE

To prevent the unit from shifting, the fireplace must be anchored. Use the nailing tabs as shown in Figure 7. Drive a nail or insert a screw through the tabs into framing members.

3.3 CONNECTING THE GAS LINE

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A listed 1/2-inch manual shut-off valve and flexible connector are connected to the 3/8-inch inlet of the control valve. A 1/8-inch N.P.T. plugged tapping, accessible for test gauge connection, should be provided for in the gas supply line leading to the unit's shut-off valve.

Locate the gas line access hole in the left outer casing of the fireplace (Figure 8). Next, insert the gas supply line through the gas line hole from the outside of the fireplace and connect it to the gas valve. Support the control when attaching the pipe so that the pilot line is not bent or torn. After the gas pipe installation complete, check carefully all gas connections for leaks with a soap solution. **DO NOT USE AN OPEN FLAME.** Use insulation to repack the space around the pipe. This should be inserted from the outside of the fireplace and packed tightly to totally seal between the pipe and the outer casing.

NOTE: THE GAS PIPE SHOULD NOT COME IN CONTACT WITH ANY WOOD STRUCTURES UNTIL IT HAS REACHED A POINT AT LEAST 1 INCH AWAY FROM THE FIREPLACE SIDE.

NOTE: THE GAS SUPPLY LINE SHOULD BE PURGED OF ANY TRAPPED AIR PRIOR TO THE FIRST FIRING OF THE UNIT.

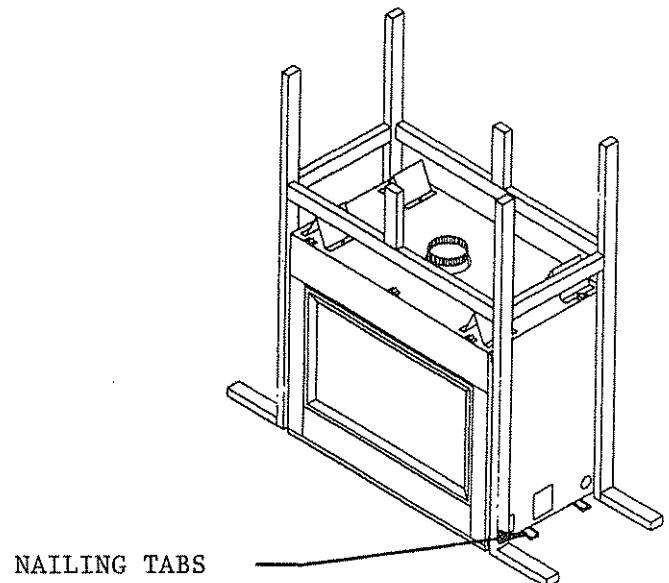


FIGURE 7

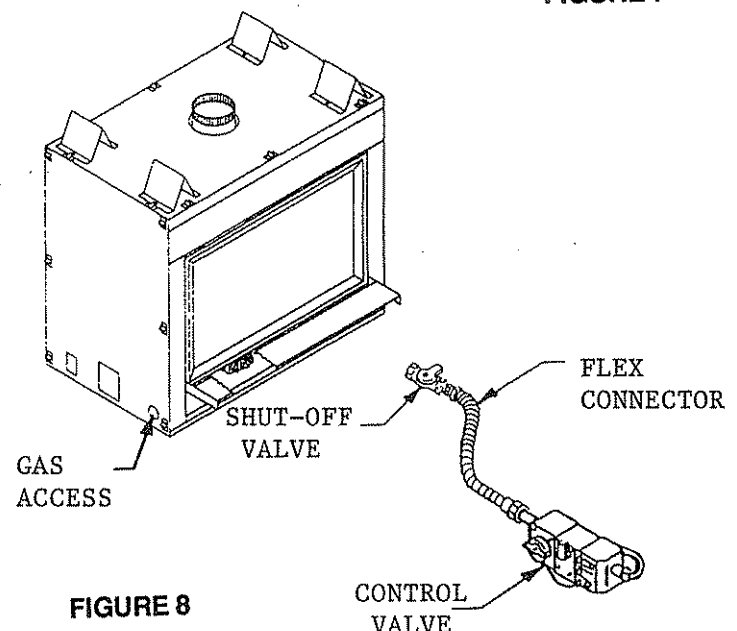


FIGURE 8

3.4 ELECTRICAL WIRING FOR OPTIONAL REMOTE CONTROL

An optional hand held remote control kit (RCH-09A) is available. Use of this option requires that the accessory junction box (Model JB-11) be installed in the fireplace and connected to 110 VAC service before permanently enclosing the fireplace. The access hole for connecting the 110 VAC service wires is found on the lower right exterior side of the unit. See Figure 9.

3.4.1 INSTALLING ELECTRICAL SERVICE TO THE JUNCTION BOX

WARNING: TURN ELECTRICAL POWER OFF AT THE CIRCUIT BREAKER BEFORE BEGINNING THIS INSTALLATION.

1. Remove the electrical cover plate from the lower side of the fireplace. Remove the knock-out from the plate and attach the Romex clamp (screws to the outside).
2. Feed the electrical service wires through the Romex clamp and secure the wires to the clamp.
3. Using the wire nuts provided, connect the service wires to the Junction Box. The black wire to the black service wire, the white wire to the white service wire, and the service ground wire to the ground stud of the Junction box.
4. Re-attach the cover plate to the outside of the fireplace.

Detailed instructions for the optional remote kit is included with each kit.

WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL VALVE OR CONTROL WIRING SYSTEM OF THIS UNIT.

3.5 WALL SWITCH WIRING

A Wall Switch Kit (WSK-21) for turning the fireplace ON/OFF is also available. This kit does NOT require 110 VAC. Connect the low voltage wires from the wall switch to the red and brown pigtail wires from the ON/OFF rocker switch. These wires are labeled "FOR REMOTE OR WALL SWITCH ONLY". Turn the unit's ON/OFF rocker switch to the "OFF" position to use the wall switch. See Figure 10 - Unit Wiring Diagram.

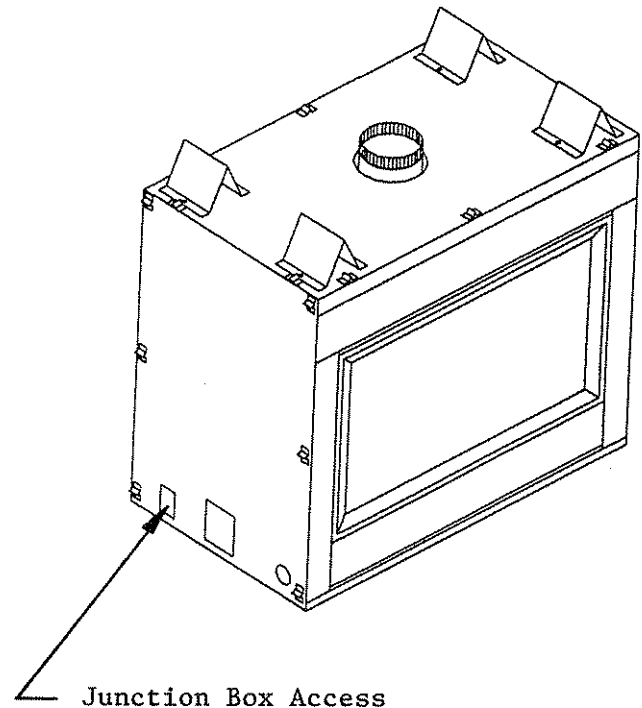


FIGURE 9

NOTE: POSITION THE WALL SWITCH SO THAT A MAXIMUM OF 25 FEET OF WIRING OR LESS FROM THE SWITCH TO THE FIREPLACE IS USED.

WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL VALVE OR CONTROL WIRING SYSTEM OF THIS UNIT.

A beginning **MINIMUM** vertical rise of 5 feet of 6 - inch B-Type vent pipe **MUST** be attached to the flue outlet collar. This can be followed by a 90-degree elbow and **MAXIMUM** 13-foot horizontal run, a second 90-degree elbow ending in a **VERTICAL POSITION**, and a **MINIMUM** 5-foot vertical rise ending in a listed termination cap for the vent pipe.

WARNING: There **MUST** be a total vertical rise of 10-feet in **ALL** vent system configurations used on this fireplace. You **MUST NOT** exceed a total maximum horizontal run of 13-feet for the entire vent system. **Avoid using elbows in the vent system if possible.**

Listed single-wall flexible or single-wall rigid gas vent pipe may be attached to this unit if, and only if, the vent run is completely inside non-combustible construction such as a masonry chimney. The flexible or rigid vent must terminate outside of the building, in a vertical position, with a termination cap listed for use with the vent pipe. **Minimum and maximum rises and runs must be followed.** See Figure 6.

NOTE: THE VENT TERMINATION MUST BE IN VERTICAL POSITION.

Consult Local Building Code Officials and Codes for proper vent system installations.

WARNING: THIS GAS FIREPLACE MUST NEVER BE VENTED BY CONNECTING TO A CHIMNEY FLUE SERVING A SEPARATE SOLID FUEL BURNING APPLIANCE.

3.2 PERMANENTLY ANCHORING THE FIREPLACE

To prevent the unit from shifting, the fireplace must be anchored. Use the nailing tabs as shown in Figure 7. Drive a nail or insert a screw through the tabs into framing members.

3.3 CONNECTING THE GAS LINE

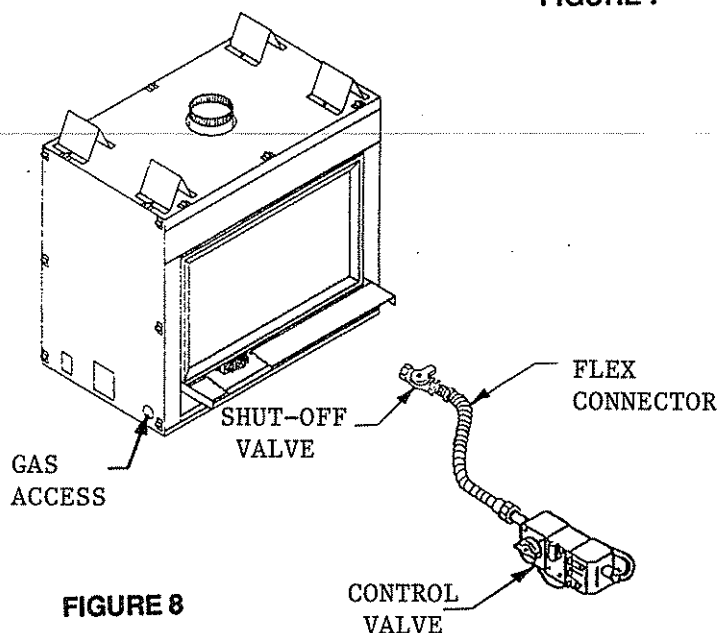
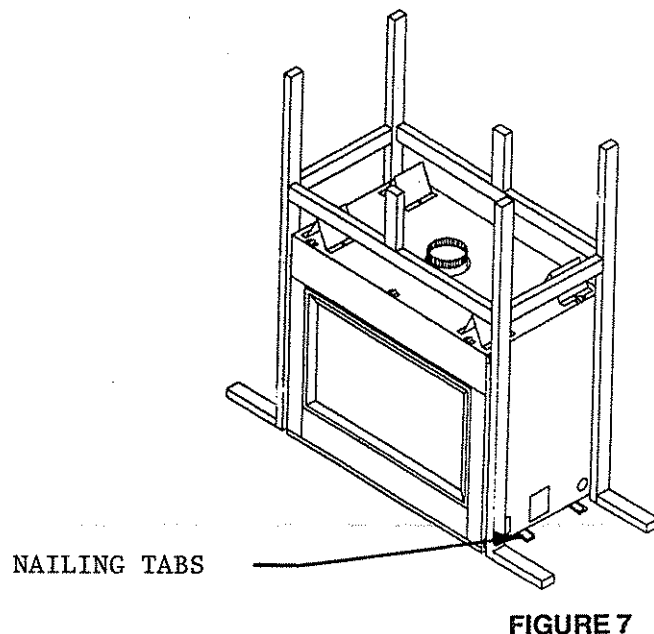
The gas fireplace is designed to accept a 1/2 inch gas line for a listed gas appliance. Have the gas line installed by a qualified service person in accordance with all building codes. Consult local building codes to properly size the gas supply line leading to the 1/2 inch hook-up at the unit.

A listed 1/2-inch manual shut-off valve and flexible connector are connected to the 3/8-inch inlet of the control valve. A 1/8-inch N.P.T. plugged tapping, accessible for test gauge connection, should be provided for in the gas supply line leading to the unit's shut-off valve.

Locate the gas line access hole in the left outer casing of the fireplace (Figure 8). Next, insert the gas supply line through the gas line hole from the outside of the fireplace and connect it to the gas valve. Support the control when attaching the pipe so that the pilot line is not bent or torn. After the gas pipe installation complete, check carefully all gas connections for leaks with a soap solution. **DO NOT USE AN OPEN FLAME.** Use insulation to repack the space around the pipe. This should be inserted from the outside of the fireplace and packed tightly to totally seal between the pipe and the outer casing.

NOTE: THE GAS PIPE SHOULD NOT COME IN CONTACT WITH ANY WOOD STRUCTURES UNTIL IT HAS REACHED A POINT AT LEAST 1 INCH AWAY FROM THE FIREPLACE SIDE.

NOTE: THE GAS SUPPLY LINE SHOULD BE PURGED OF ANY TRAPPED AIR PRIOR TO THE FIRST FIRING OF THE UNIT.



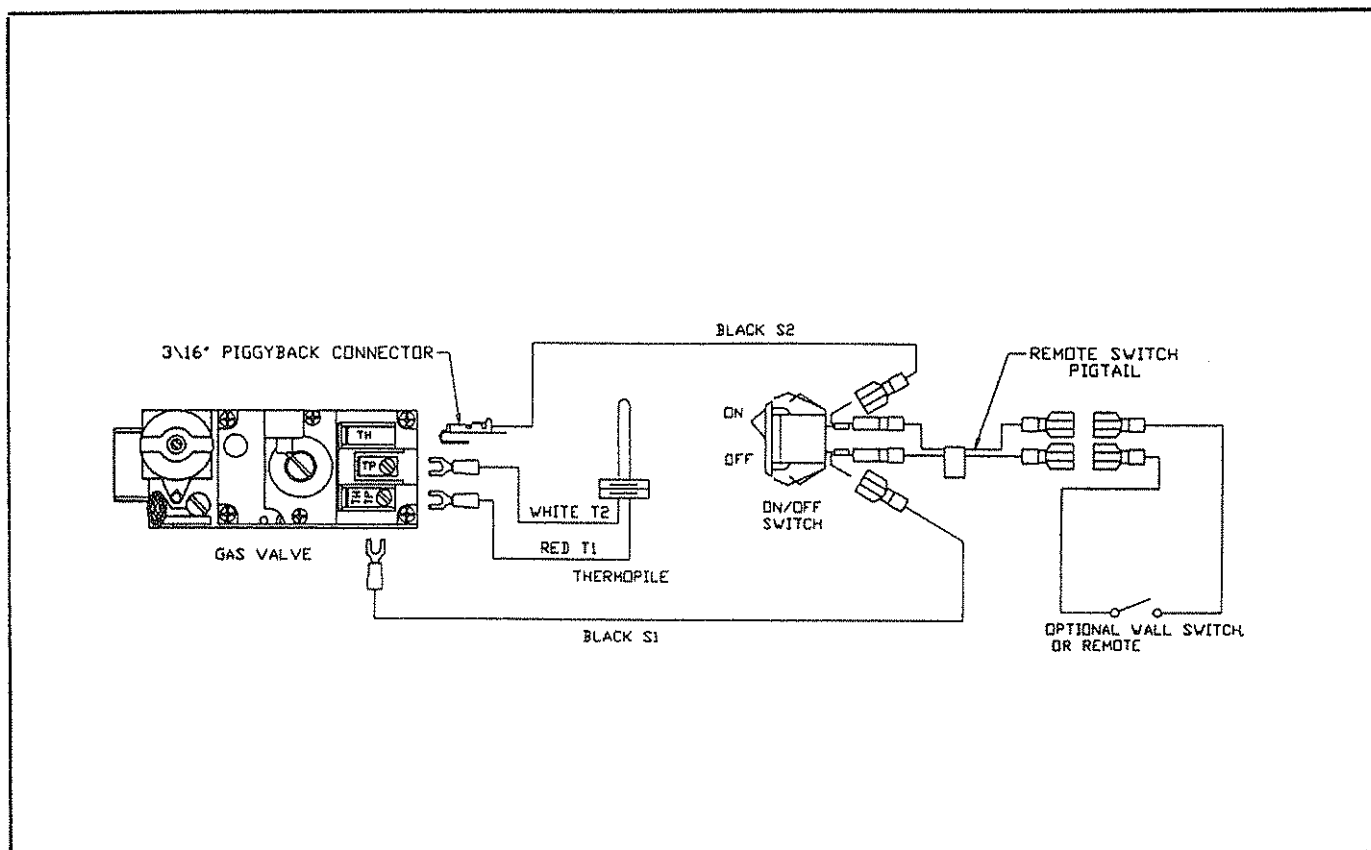


FIGURE 10

3.6 INSTALLING OPTIONAL OUTSIDE MAKE-UP AIR

This unit is equipped to accept outside air. By using outside make-up air, the amount of room air used for combustion will be reduced. **It is recommended that the outside air system be used with this appliance.**

WARNING: IN A NEGATIVE PRESSURE CONDITION (LIKELY TO OCCUR IN NEW HOMES THAT DO NOT HAVE ADEQUATE MAKE-UP AIR) THE OUTSIDE AIR KIT (MODEL AK-225) MUST BE INSTALLED TO OBTAIN PROPER PERFORMANCE AND TO HELP PREVENT SPILLAGE OF COMBUSTION GASES. SEE SECTION 2.0.

To install a Model AK-225 Outside Air Kit, remove and discard the cover plate on the right hand lower rear corner of the outer wrap. See Figure 11. Detailed installation instructions are included with the AK-225 Kit.

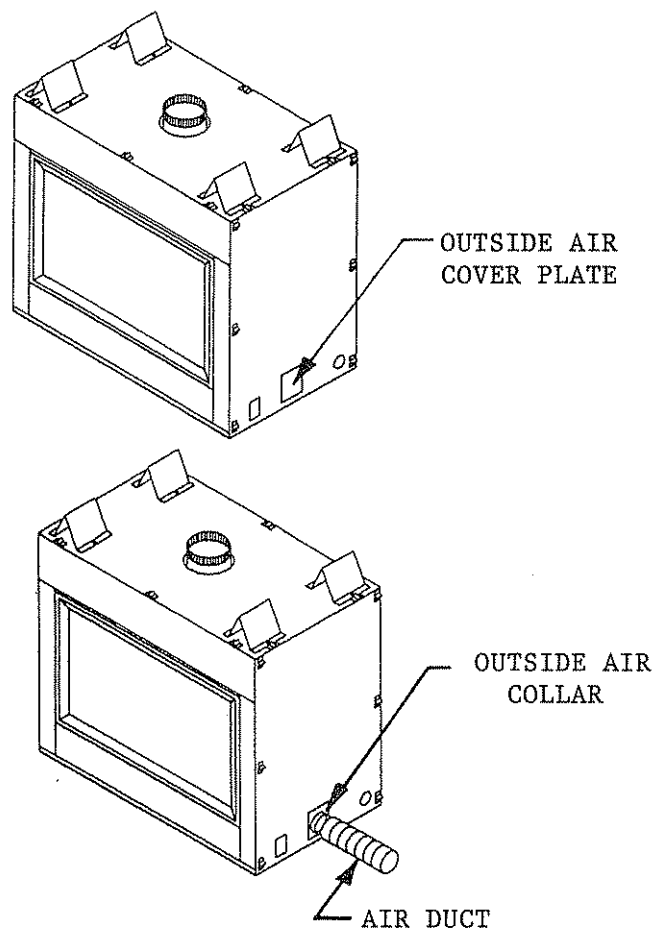


FIGURE 11

5.0 OPERATING GUIDELINES AND MAINTENANCE INSTRUCTIONS

Upon completing the gas line connection, a small amount of air will be in the lines. When first lighting the pilot light, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the pilot and burner will light and operate as indicated in the instruction manual. Subsequent lighting of the appliance will not require such purging.

CAUTION: DURING THE INITIAL PURGING AND SUBSEQUENT LIGHTING, **NEVER** ALLOW THE GAS VALVE CONTROL KNOB TO REMAIN DEPRESSED IN THE "PILOT" POSITION WITHOUT PUSHING THE RED IGNITOR BUTTON AT LEAST ONCE EVERY SECOND.

When lit for the first time, the appliance will emit a slight odor for an hour or two. This is due to paint and lubricants used in the manufacturing process. Additionally, for the first few minutes after each lighting, vapor may condense and fog the glass and the flames may be blue. After a few minutes this moisture will disappear and within 15-30 minutes the flames should become yellow.

The fireplace may produce a noise, caused from metal expansion and contraction as it heats up and cools down. This noise is similar to one that a furnace or heat duct may produce and does not affect the operation or longevity of the fireplace. Keep the control compartment, logs and burner area surrounding the logs clean by vacuuming or brushing at least twice a year.

CAUTION: THE LOGS CAN GET VERY HOT-HANDLE ONLY WHEN COOL.

Always turn off gas to the pilot before cleaning. For relighting, refer to lighting instructions located behind the door panel, in the controls compartment.

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

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

Never obstruct the flow of combustion and ventilation air. Keep the front of the appliance clear of all obstacles and materials.

To obtain proper operation, it is imperative that the pilot and main burner flame characteristics are steady, not lifting or floating. Typically the top 3/8 inch at the pilot generator should be engulfed in the pilot flame (Figure 14).

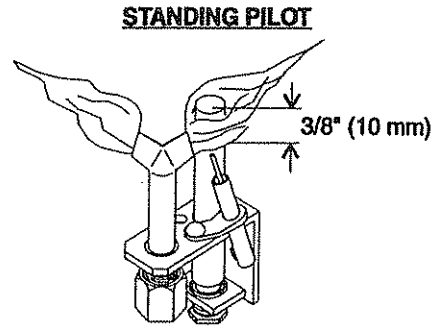


FIGURE 14

WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURE AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

IMPORTANT: TURN OFF GAS BEFORE SERVICING APPLIANCE. IT IS RECOMMENDED THAT A COMPETENT SERVICE TECHNICIAN PERFORM THESE CHECKUPS AT THE BEGINNING OF EACH HEATING SEASON.

Inspect the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.

5.1 GLASS DOOR REMOVAL

1. To remove the glass door, lift decorative door up and away from unit.
2. Remove wing nuts from the bottom of the glass frame and phillips head screws from the top.
3. Remove glass door.

5.2 CLEANING BURNER AND PILOT

In order to properly clean the burner and pilot assembly, turn off the gas to the unit and remove the logs exposing the burner and pilot assembly.

Clean all foreign materials from top of burner. Check to make sure that burner orifice is clean.

Visually inspect the pilot periodically. Brush or blow away any dust or linen accumulations. If the pilot orifice is plugged, disassembly may be required to remove any foreign material from orifice or tubing. When the appliance is put back in service check burner flame patterns with Figure 15.

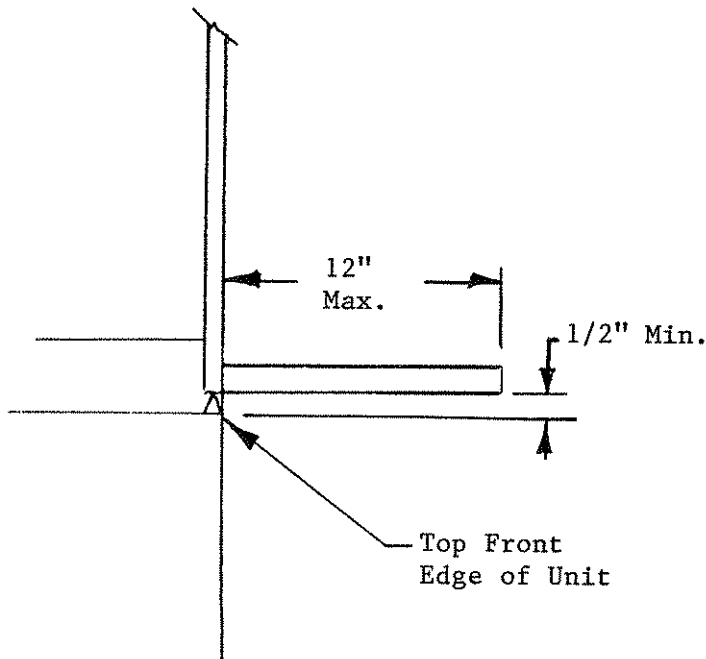


FIGURE 12

3.7 FINISHING

Finish the wall with the material of your choice. Figure 12 shows the minimum vertical and corresponding maximum horizontal dimensions of mantles or other combustible projections above the top front edge of the fireplace.

When finishing the fireplace NEVER OBSTRUCT OR MODIFY THE AIR INLET/OUTLET GRILLES IN ANY MANNER.

CAUTION: ALL JOINTS BETWEEN THE FINISHED WALL AND THE FIREPLACE SURROUND (TOP AND SIDES) CAN ONLY BE SEALED WITH A 300°F (149°C) MINIMUM SEALANT MATERIAL. ONLY NON-COMBUSTIBLE MATERIAL, USING A 300°F (149°C) MINIMUM ADHESIVE IF NEEDED, CAN BE APPLIED AS FACING TO THE FIREPLACE SURROUND. SEE FIGURE 13.

3.8 HEARTH EXTENSION

While a hearth extension may be desirable for aesthetic reasons, it is not required for decorative gas appliances per ANSI or CAN/CGA Testing Standards.

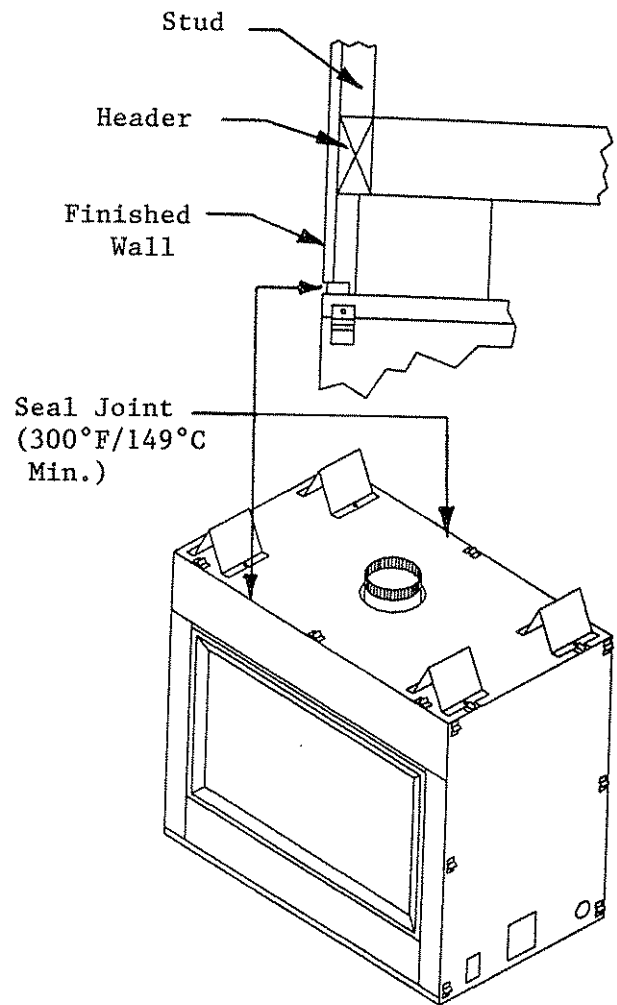


FIGURE 13

4.0 ELECTRICAL SAFETY SYSTEM

WARNING: DO NOT CONNECT 110-120VAC CURRENT TO THE GAS CONTROL VALVE OR CONTROL WIRING SYSTEM OF THIS UNIT.

The gas control system is wired so the thermopile, when heated with the pilot light, will produce approximately 350 to 500 millivolts. This activates the gas control valve. The unit is equipped with an ON/OFF rocker switch which is mounted on the face of the unit. See Figure 10 - Unit wiring diagram.

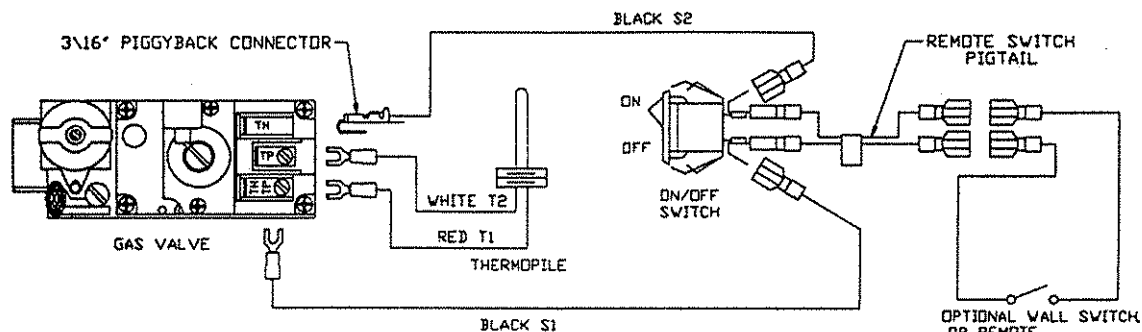


FIGURE 10

3.6 INSTALLING OPTIONAL OUTSIDE MAKE-UP AIR

This unit is equipped to accept outside air. By using outside make-up air, the amount of room air used for combustion will be reduced. **It is recommended that the outside air system be used with this appliance.**

WARNING: IN A NEGATIVE PRESSURE CONDITION (LIKELY TO OCCUR IN NEW HOMES THAT DO NOT HAVE ADEQUATE MAKE-UP AIR) THE OUTSIDE AIR KIT (MODEL AK-225) MUST BE INSTALLED TO OBTAIN PROPER PERFORMANCE AND TO HELP PREVENT SPILLAGE OF COMBUSTION GASES. SEE SECTION 2.0.

To install a Model AK-225 Outside Air Kit, remove and discard the cover plate on the right hand lower rear corner of the outer wrap. See Figure 11. Detailed installation instructions are included with the AK-225 Kit.

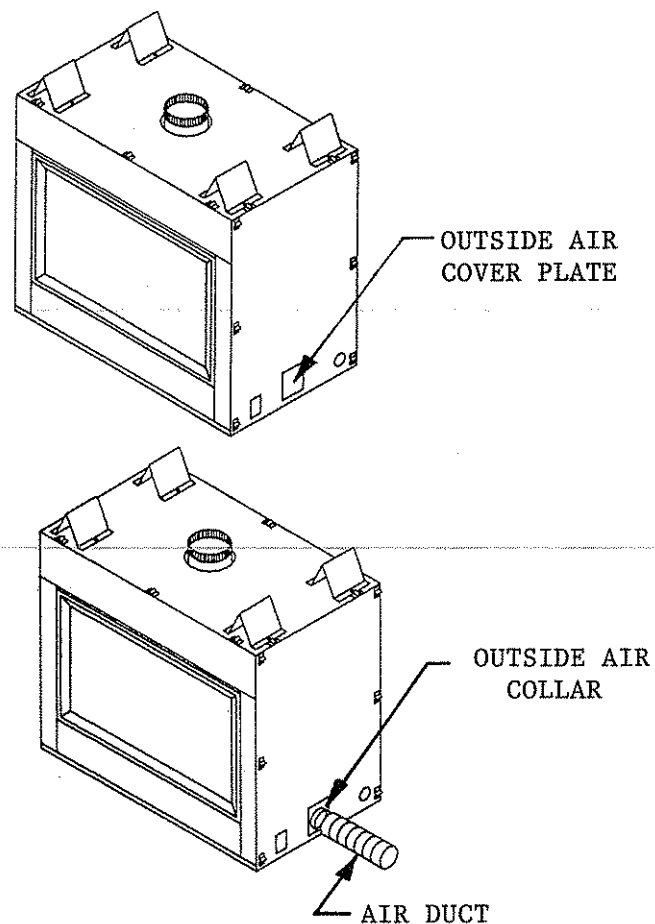


FIGURE 11

5.0 OPERATING GUIDELINES AND MAINTENANCE INSTRUCTIONS

Upon completing the gas line connection, a small amount of air will be in the lines. When first lighting the pilot light, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the pilot and burner will light and operate as indicated in the instruction manual. Subsequent lighting of the appliance will not require such purging.

CAUTION: DURING THE INITIAL PURGING AND SUBSEQUENT LIGHTING, **NEVER** ALLOW THE GAS VALVE CONTROL KNOB TO REMAIN DEPRESSED IN THE "PILOT" POSITION WITH OUT PUSHING THE RED IGNITOR BUTTON AT LEAST ONCE EVERY SECOND.

When lit for the first time, the appliance will emit a slight odor for an hour or two. This is due to paint and lubricants used in the manufacturing process. Additionally, for the first few minutes after each lighting, vapor may condense and fog the glass and the flames may be blue. After a few minutes this moisture will disappear and within 15-30 minutes the flames should become yellow.

The fireplace may produce a noise, caused from metal expansion and contraction as it heats up and cools down. This noise is similar to one that a furnace or heat duct may produce and does not affect the operation or longevity of the fireplace. Keep the control compartment, logs and burner area surrounding the logs clean by vacuuming or brushing at least twice a year.

CAUTION: THE LOGS CAN GET VERY HOT- HANDLE ONLY WHEN COOL.

Always turn off gas to the pilot before cleaning. For relighting, refer to lighting instructions located behind the door panel, in the controls compartment.

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

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

Never obstruct the flow of combustion and ventilation air. Keep the front of the appliance clear of all obstacles and materials.

To obtain proper operation, it is imperative that the pilot and main burner flame characteristics are steady, not lifting or floating. Typically the top 3/8 inch at the pilot generator should be engulfed in the pilot flame (Figure 14).

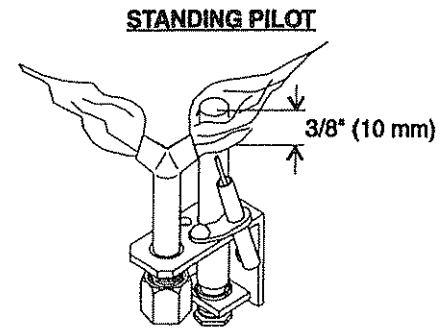


FIGURE 14

WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURE AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

IMPORTANT: TURN OFF GAS BEFORE SERVICING APPLIANCE. IT IS RECOMMENDED THAT A COMPETENT SERVICE TECHNICIAN PERFORM THESE CHECKUPS AT THE BEGINNING OF EACH HEATING SEASON.

Inspect the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.

5.1 GLASS DOOR REMOVAL

1. To remove the glass door, lift decorative door up and away from unit.
2. Remove wing nuts from the bottom of the glass frame and phillips head screws from the top.
3. Remove glass door.

5.2 CLEANING BURNER AND PILOT

In order to properly clean the burner and pilot assembly, turn off the gas to the unit and remove the logs exposing the burner and pilot assembly.

Clean all foreign materials from top of burner. Check to make sure that burner orifice is clean.

Visually inspect the pilot periodically. Brush or blow away any dust or linen accumulations. If the pilot orifice is plugged, disassembly may be required to remove any foreign material from orifice or tubing. When the appliance is put back in service check burner flame patterns with Figure 15.

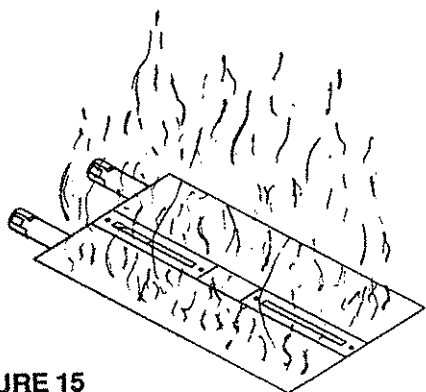


FIGURE 15

5.3 LOG REPLACEMENT

1. Remove the glass door assembly. (See Section 5.1)
2. The Log(s) can now be removed as required. Replace the log(s) as previously shown in Figure 2, Gas Log Positioning. Replace glass door.

5.4 GLASS DOOR REPLACEMENT

1. Before replacing the glass door make sure the logs are properly positioned.
2. Set the glass door in place and re-attach it with the wing nuts and screws.

6.1 SAFETY INFORMATION

WARNING: THE GLASS DOOR ASSEMBLY MUST BE IN PLACE ON THE FIREPLACE BEFORE THE UNIT CAN BE PLACED INTO SAFE OPERATION.

6.0 LIGHTING AND SAFETY INSTRUCTIONS

This model has a gas control valve which allows you to increase or decrease the height of the main burner flame. The control valve has a pressure regulator with a knob as shown in Figure 16. Rotate the knob clockwise to "HI" to increase the flame height and counter-clockwise to "LO" to decrease the flame height.

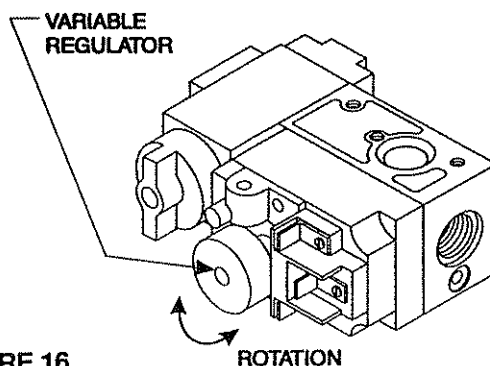


FIGURE 16

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

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

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

5.0 OPERATING GUIDELINES AND MAINTENANCE INSTRUCTIONS

Upon completing the gas line connection, a small amount of air will be in the lines. When first lighting the pilot light, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the pilot and burner will light and operate as indicated in the instruction manual. Subsequent lighting of the appliance will not require such purging.

CAUTION: DURING THE INITIAL PURGING AND SUBSEQUENT LIGHTING, **NEVER** ALLOW THE GAS VALVE CONTROL KNOB TO REMAIN DEPRESSED IN THE "PILOT" POSITION WITHOUT PUSHING THE RED IGNITOR BUTTON AT LEAST ONCE EVERY SECOND.

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CAUTION: THE LOGS CAN GET VERY HOT- HANDLE ONLY WHEN COOL.

Always turn off gas to the pilot before cleaning. For relighting, refer to lighting instructions located behind the door panel, in the controls compartment.

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

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

Never obstruct the flow of combustion and ventilation air. Keep the front of the appliance clear of all obstacles and materials.

To obtain proper operation, it is imperative that the pilot and main burner flame characteristics are steady, not lifting or floating. Typically the top 3/8 inch at the pilot generator should be engulfed in the pilot flame (Figure 14).

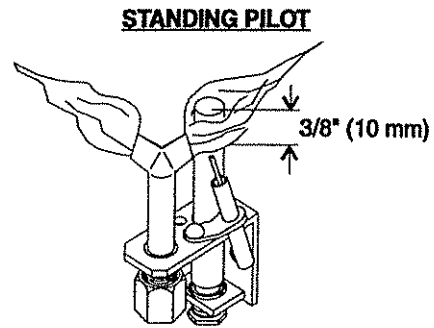


FIGURE 14

WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURE AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

IMPORTANT: TURN OFF GAS BEFORE SERVICING APPLIANCE. IT IS RECOMMENDED THAT A COMPETENT SERVICE TECHNICIAN PERFORM THESE CHECKUPS AT THE BEGINNING OF EACH HEATING SEASON.

Inspect the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.

5.1 GLASS DOOR REMOVAL

1. To remove the glass door, lift decorative door up and away from unit.
2. Remove wing nuts from the bottom of the glass frame and phillips head screws from the top.
3. Remove glass door.

5.2 CLEANING BURNER AND PILOT

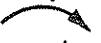
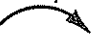
In order to properly clean the burner and pilot assembly, turn off the gas to the unit and remove the logs exposing the burner and pilot assembly.

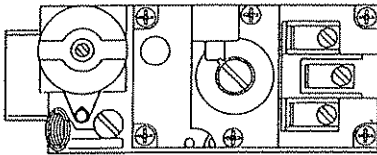
Clean all foreign materials from top of burner. Check to make sure that burner orifice is clean.

Visually inspect the pilot periodically. Brush or blow away any dust or linen accumulations. If the pilot orifice is plugged, disassembly may be required to remove any foreign material from orifice or tubing. When the appliance is put back in service check burner flame patterns with Figure 15.

6.2 LIGHTING INSTRUCTIONS

LIGHTING INSTRUCTIONS

1. "STOP!" Read the safety information on previous page.
2. To access controls, remove the glass door.
3. Turn the valve control knob to the "OFF" position. To do this, you must turn the knob clockwise  to the "Pilot" position, and then press in and continue turning clockwise  to the "OFF" position.



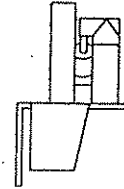
GAS CONTROL VALVE



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

4. WAIT FIVE (5) MINUTES TO CLEAR OUT ANY GAS. Then smell for gas, including near the floor. If you then smell gas, STOP! Follow "B" in the safety information above. If you don't smell gas, go to the next step.
5. The pilot should not require accessing for lighting purposes. The pilot is located inside the combustion chamber. If it is necessary to access the pilot, follow the instructions in Section 5.1 and 5.4 for glass door removal and replacement.


THERMOPILE

PILOT BURNER



6. To put the control in the "Pilot" position, turn the control knob counter-clockwise  to the "Pilot" position.
7. To light the pilot depress the control knob and then depress the red piezo button until it makes a clicking sound. It may be necessary to repeat this step. If the pilot does not light after 10 seconds, go back to step 3. The control knob should be held down for a MINUTE after pilot ignition.
 - If the control knob does not pop out when released, **STOP**-shut off the gas supply to the fireplace control valve, and **IMMEDIATELY** call your service technician or gas supplier.
 - If the pilot will not stay lit after two tries, turn the control knob to the "OFF" position and call your service technician or gas supplier.
8. After the pilot has been lit, the burner can be turned on by turning the knob counter-clockwise  to the "ON" position. Flip the ON/OFF switch to the "ON" position.
9. Replace the glass door.

TO TURN OFF GAS APPLIANCE

1. Remove the glass door.
2. Turn ON/OFF switch to "OFF".
3. Turn the valve control knob clockwise  to the "Pilot" position, then depress knob and continue turning to "OFF" position.
4. Replace the glass door.

8.0 TROUBLESHOOTING - ST-42FL

With proper installation and maintenance, your new Gas Fireplace should provide years of trouble-free service. If you do experience a problem, refer to the Trouble Shooting Guide below. This guide will assist a qualified service person in the diagnosis of problems and the corrective action to be taken.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
I. Spark Ignitor will not light pilot after repeated triggering of red button.	A. Defective ignitor (no spark at electrode).	1. Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace ignitor.
	B. Defective pilot or misaligned electrode (spark at electrode).	1. Using a match, light pilot. If pilot lights, turn off pilot and trigger the red button again. If pilot lights, an improper gas/air mixture caused the bad lighting and a longer purge period is recommended. If pilot will not light - check gas at electrode and pilot - should be 1/8 inch (3.2mm) to have a strong spark. If OK, replace pilot.
	C. No gas or low gas pressure.	1. Check the unit's shut-off valve remote shut-off valves from fireplace. Usually there is a valve near the fireplace and sometimes there is a valve near the main. There can be more than one (1) valve between the fireplace and main. 2. Low pressure can be caused by a variety of situations such as a bent line, too narrow diameter of pipe or even low line pressure. Check for kinked lines. If none, consult with plumber or gas supplier.
	D. No L.P. in tank.	1. Refill the fuel tank.
II. Pilot will not stay lit after carefully following lighting instructions.	A. Defective thermopile.	1. Check pilot flame. Must impinge on thermopile. Clean and or adjust pilot for maximum flame impingement on thermopile. 2. Be sure wire connections from thermopile at gas valve terminals are tight and thermopile is fully inserted into pilot bracket.

NOTE: TO PREVENT OVERHEATING THE UNIT, THE TIPS OF THE FLAMES SHOULD NEVER HIT THE TOP OF THE FIREBOX. CONTACT YOUR DEALER OR A QUALIFIED SERVICE PERSON IF ADJUSTMENTS TO THE UNIT MUST BE MADE.

LPG (PROPANE) INFORMATION

THE FOLLOWING WARNING APPLIES TO INSTALLATIONS USING L.P. (PROPANE) GAS:

WARNING: To avoid possible injury, fire, and explosion, please read and follow these precautions and all instructions on this appliance before lighting the pilot. This appliance uses L.P. (Propane) gas **which is heavier than air and will remain at floor level if there is a leak . Before lighting, smell at floor level and/ or use other means** (such as using a soap solution on all piping and connections, using a gas detector, etc.) to check for **gas leaks. NOTE:** L.P. (Propane) **gas can become odorless and CANNOT always be detected by smell.** If you smell gas, detect a gas leak, or suspect that a gas leak exists, follow these rules:

1. Get all people out of building.
2. DO NOT light matches. DO NOT turn electric lights or switches on or off in area. DO NOT use an electric fan to remove gas from area. DO NOT use a telephone inside the building.
3. Shut off gas at L.P. tank outside of building.
4. Telephone gas company and fire department. Ask instructions.

Before hanging up, give your name, address, and phone number. DO NOT go back into building

If your L.P. tank runs out of fuel, turn off gas at the appliance. After L.P. tank is refilled, appliance must be re-lit according to manufacturer's instructions. If the gas control has been exposed to WATER in any way, DO NOT try to use it. It must be replaced. DO NOT attempt repair on gas control or appliance.

Tampering is DANGEROUS and voids all warranties. Any component that is found to be faulty, must be replaced with an approved component.

7.0 HIGH ALTITUDE INSTALLATION

A.G.A. Design Certified units are tested and approved for elevations from 0-2000 feet. CGA approved units are certified for elevations from 0-4500 feet.

When installing this unit at an elevation above 2000 feet, (in United States) it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input should be reduced 4 percent for each 1000 feet above sea level. Check with your local gas company for help in determining proper orifice size.

When installing this unit at an elevation between 2000-4500 feet (in Canada) the input rating must be reduced by 10 percent.

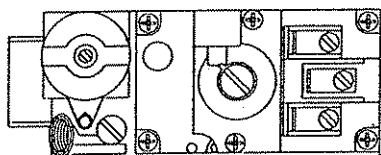
When installing this unit at an elevation above 4500 (in Canada), check with local authorities.

Consult your local gas company for assistance in determining the proper orifice for your location.

6.2 LIGHTING INSTRUCTIONS

LIGHTING INSTRUCTIONS

1. "STOP!" Read the safety information on previous page.
2. To access controls, remove the glass door.
3. Turn the valve control knob to the "OFF" position. To do this, you must turn the knob clockwise to the "Pilot" position, and then press in and continue turning clockwise to the "OFF" position.



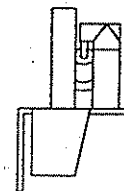
GAS CONTROL VALVE

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

4. WAIT FIVE (5) MINUTES TO CLEAR OUT ANY GAS. Then smell for gas, including near the floor. If you then smell gas, STOP! Follow "B" in the safety information above. If you don't smell gas, go to the next step.
5. The pilot should not require accessing for lighting purposes. The pilot is located inside the combustion chamber. If it is necessary to access the pilot, follow the instructions in Section 5.1 and 5.4 for glass door removal and replacement.

THERMOPILE

PILOT BURNER



6. To put the control in the "Pilot" position, turn the control knob counter-clockwise to the "Pilot" position.
7. To light the pilot depress the control knob and then depress the red piezo button until it makes a clicking sound. It may be necessary to repeat this step. If the pilot does not light after 10 seconds, go back to step 3. The control knob should be held down for a MINUTE after pilot ignition.
 - If the control knob does not pop out when released, **STOP**-shut off the gas supply to the fireplace control valve, and **IMMEDIATELY** call your service technician or gas supplier.
 - If the pilot will not stay lit after two tries, turn the control knob to the "OFF" position and call your service technician or gas supplier.
8. After the pilot has been lit, the burner can be turned on by turning the knob counter-clockwise to the "ON" position. Flip the ON/OFF switch to the "ON" position.
9. Replace the glass door.

TO TURN OFF GAS APPLIANCE

1. Remove the glass door.
2. Turn ON/OFF switch to "OFF".
3. Turn the valve control knob clockwise to the "Pilot" position, then depress knob and continue turning to "OFF" position.
4. Replace the glass door.

8.0 TROUBLESHOOTING - ST-42FL

With proper installation and maintenance, your new Gas Fireplace should provide years of trouble-free service. If you do experience a problem, refer to the Trouble Shooting Guide below. This guide will assist a qualified service person in the diagnosis of problems and the corrective action to be taken.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
I. Spark Ignitor will not light pilot after repeated triggering of red button.	A. Defective ignitor (no spark at electrode).	1. Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace ignitor.
	B. Defective pilot or misaligned electrode (spark at electrode).	1. Using a match, light pilot. If pilot lights, turn off pilot and trigger the red button again. If pilot lights, an improper gas/air mixture caused the bad lighting and a longer purge period is recommended. If pilot will not light - check gas at electrode and pilot - should be 1/8 inch (3.2mm) to have a strong spark. If OK, replace pilot.
	C. No gas or low gas pressure.	1. Check the unit's shut-off valve remote shut-off valves from fireplace. Usually there is a valve near the fireplace and sometimes there is a valve near the main. There can be more than one (1) valve between the fireplace and main. 2. Low pressure can be caused by a variety of situations such as a bent line, too narrow diameter of pipe or even low line pressure. Check for kinked lines. If none, consult with plumber or gas supplier.
	D. No L.P. in tank.	1. Refill the fuel tank.
II. Pilot will not stay lit after carefully following lighting instructions.	A. Defective thermopile.	1. Check pilot flame. Must impinge on thermopile. Clean and or adjust pilot for maximum flame impingement on thermopile. 2. Be sure wire connections from thermopile at gas valve terminals are tight and thermopile is fully inserted into pilot bracket.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
III. Pilot burning, no gas burner, valve knob "ON", "on-off" switch "ON".		3. Check thermopile with millivolt meter. Take reading at "TH-TP&TP" terminals of gas valve. Should read 325 millivolts minimum while holding valve knob depressed in pilot position, pilot lit, and on/off switch "OFF". Replace faulty thermopile if reading is below specified minimum.
	B. Defective valve.	1. Turn knob to pilot position, depress and light pilot light. If meter reading is less than 325 m.v. after 30 second, or if the pilot does not stay lit, the valve is defective.
	C. Open wire connection in pilot circuit.	1. Check wire continuity and connections in pilot circuit.
	A. "ON/OFF" switch or wires defective.	1. Check "on-off" switch and wires for proper connections. Place jumper wires across terminals at switch-if burner comes on, replace defective switch. If OK, place jumper wires across switch wires at gas valve-if burner comes on, wires are faulty or connections are bad.
	B. Thermopile may not generating sufficient millivoltage. (325m.v.).	1. Recheck Symptom #2. 2. Pilot flame not physically close enough to thermopile.
	C. Defective valve.	1. Turn valve knob to "ON". Place ON/OFF switch to "ON". Check with millivolt meter at thermopile terminals. Millivolt meter should read greater than 100 m.v. If the reading is okay and the burner does not come on, replace the gas valve.
	D. Plugged burner orifice.	1. Check burner orifice for stoppage and remove.
	E. Wall switch or wires defective.	1. Follow corrective action in A.1 above; check switch and wiring. Replace where defective.

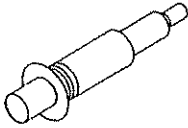

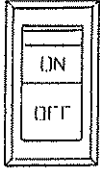


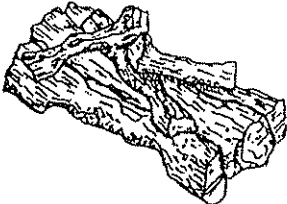
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	C. No gas or low gas pressure.	1. Check the unit's shut-off valve remote shut-off valves from fireplace. Usually there is a valve near the fireplace and sometimes there is a valve near the main. There can be more than one (1) valve between the fireplace and main. 2. Low pressure can be caused by a variety of situations such as a bent line, too narrow diameter of pipe or even low line pressure. Check for kinked lines. If none, consult with plumber or gas supplier.
	D. No L.P. in tank.	1. Refill the fuel tank.
II. Pilot will not stay lit after carefully following lighting instructions.	A. Defective thermopile.	1. Check pilot flame. Must impinge on thermopile. Clean and or adjust pilot for maximum flame impingement on thermopile. 2. Be sure wire connections from thermopile at gas valve terminals are tight and thermopile is fully inserted into pilot bracket.

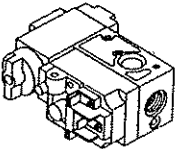
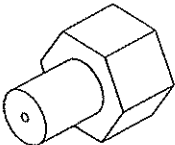
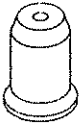
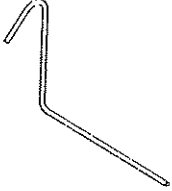

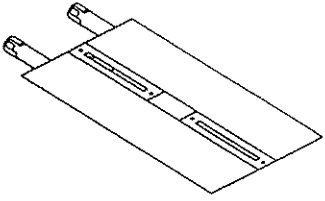
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
IV. Frequent pilot outage problem.	A. Pilot flame may be too low or blowing (high), causing the pilot safety to drop out.	1. Clean and adjust pilot flame for maximum flame impingement on thermopile.
V. Pilot and main burner go out while being in operation.	A. No L.P. in tank.	1. Refill the fuel tank.
	B. Bad Thermopile.	1. Replace if necessary.
	C. Improper vent cap installation.	1. Check for proper installation and freedom from debris or blockage.
VI. Glass Soots	A. Flame impingement on logs.	1. Adjust the log set so the flame does not impinge on it.
	B. Improper venturi setting.	1. Adjust the air shutter at the base of the burner.
	C. Debris around venturi.	1. Inspect the opening at the base of the burner. It is imperative that NO material be placed in this opening.
VII. Flame burns blue and lifts off burner.	A. Insufficient oxygen being supplied.	1. Check to make sure vent cap is installed properly. 2. Check to make sure that no debris has been placed at the base of the burner.

10.0 REPLACEMENT PARTS- ST-42FL(CONT.)

PART	PART DESCRIPTION	PART NUMBER
	Piezo Ignitor	SRV60-513
	Thermopile	SRV60-512
	On/Off Rocker Switch	SRV60-525A
	Pilot Assembly LP	SRV60-511A
	Pilot Assembly NG	SRV60-510A
	Glass Door	GLA-TVFL
	Logset	LOGS-PTR

9.0 REPLACEMENT PARTS- ST-42FL

When requesting service or replacement parts for your fireplace, please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

PART	PART DESCRIPTION	PART NUMBER
	Valve LP	SRV40-501
	Valve NG	SRV40-500
	Burner Orifice LP	SRV41-801
	Burner Orifice NG	SRV41-800
	Pilot Orifice LP	SRV60-517
	Pilot Orifice NG	SRV60-505
	Pilot Tube	SRV462-301
	Burner Tube	SRV462-300
	Burner NG/LP	SRV458-385A LP 456-385A
	Burner NG/LP	SRV456-386A NG

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
IV. Frequent pilot outage problem.	A. Pilot flame may be too low or blowing (high), causing the pilot safety to drop out.	1. Clean and adjust pilot flame for maximum flame impingement on thermopile.
V. Pilot and main burner go out while being in operation.	A. No L.P. in tank.	1. Refill the fuel tank.
	B. Bad Thermopile.	1. Replace if necessary.
	C. Improper vent cap installation.	1. Check for proper installation and freedom from debris or blockage.
VI. Glass Soots	A. Flame impingement on logs.	1. Adjust the log set so the flame does not impinge on it.
	B. Improper venturi setting.	1. Adjust the air shutter at the base of the burner.
	C. Debris around venturi.	1. Inspect the opening at the base of the burner. It is imperative that NO material be placed in this opening.
VII. Flame burns blue and lifts off burner.	A. Insufficient oxygen being supplied.	1. Check to make sure vent cap is installed properly. 2. Check to make sure that no debris has been placed at the base of the burner.

10.0 DIRECT SPARK IGNITION (DSI) FOR MODEL ST-42FL-DSI

(PROPANE MODELS NOT FOR USE IN CANADA)

The DSI Module of the fireplace is equipped with a RED indicator light which will come on for approximately 4-seconds when you turn the fireplace ON/OFF switch to "ON". The red light will go off when the main burner lights.

If the fireplace is not operating properly, you will see the RED light "ON" as follows.

FAULT CONDITION

1. Internal control failure
2. Ignition system lockout

RED LIGHT

- Steady on, light does not shut off.
- Continuous series of 3 flashes.

Do not attempt to service or repair the equipment yourself - Turn the ON/OFF switch to "OFF" and call a qualified service person.

This unit requires 110VAC service in order to operate. Connection to house wiring should **ONLY** be done by a Qualified electrician.

FOR YOUR SAFETY READ BEFORE OPERATING DSI CONTROLS

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 does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
- 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.

- C. 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.

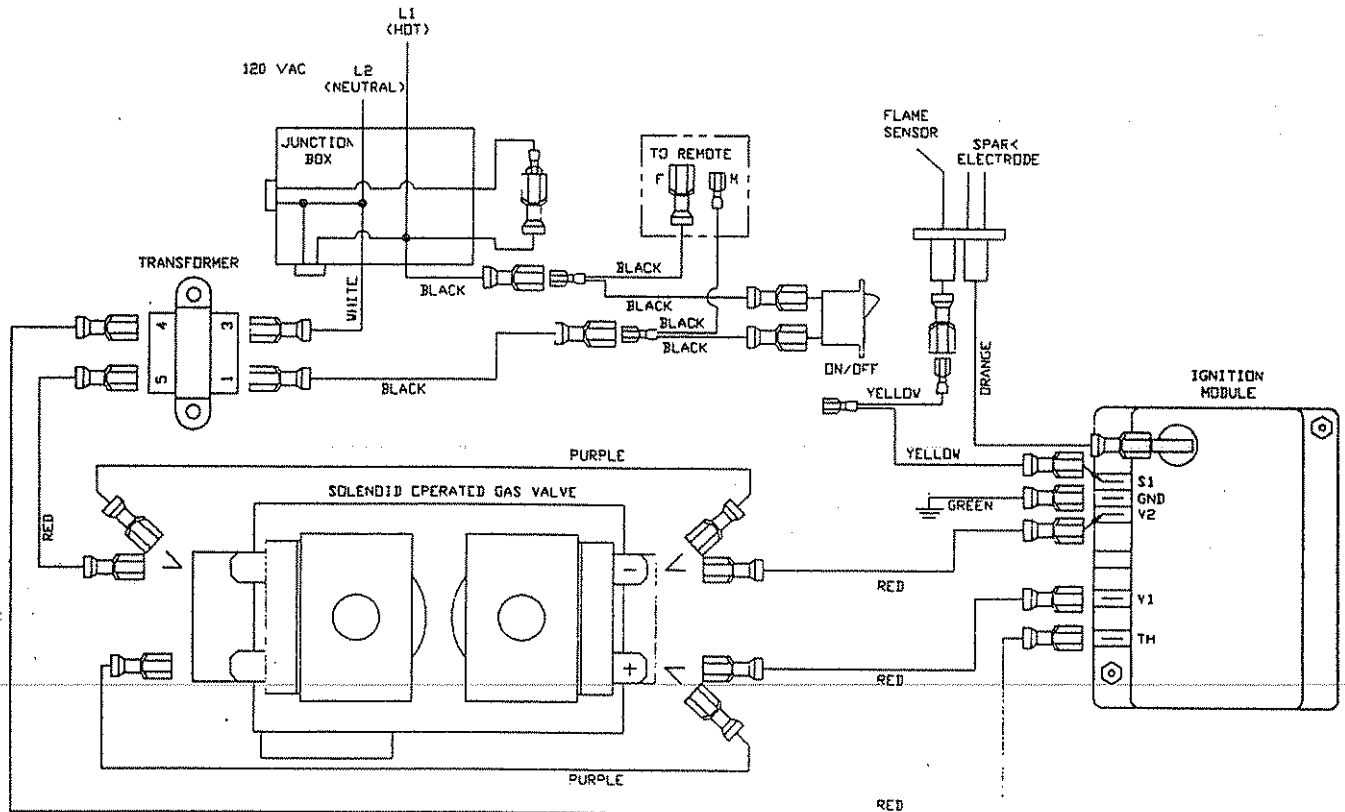
WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electric switch, do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

OPTIONAL SWITCH WIRING MODEL ST-42FL-DSI

An optional Wall Switch (WSK-21) or Remote Control Switch (RCH-09A) may be wired to this appliance. The Wall Switch **DOES NOT** require a separate 110-120 VAC electrical service connection. The remote control receiver **DOES** require 110-120 VAC which is obtained at the pre-installed junction box. Connect 18 A.W.G. minimum wires from the optional switch installed to the accessory wires (labeled Optional Wall Switch or Remote). Set the unit's ON/Off rocker switch to the "OFF" position. Activate the optional switch installed to control the main burner of the unit. Detailed installation instructions for optional switches are found in each accessory kit.

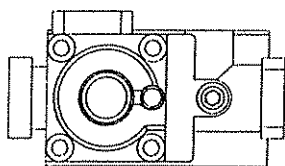
WARNING: DO NOT CONNECT A SEPARATE SOURCE OF 110-120 VAC TO AN OPTIONAL WSK-21 WALL SWITCH INSTALLED TO THIS FIREPLACE.



LIGHTING INSTRUCTIONS

DSI CONTROLS

1. STOP! Read the safety information in the "For Your Safety Read Before Operating DSI Controls" section of this instruction.
2. Turn off all electric power to the appliance.
3. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you then smell gas, STOP! Follow "B" in the safety information located on the previous page. If you don't smell gas, go to next step.
5. Turn on all electric power to the appliance.
6. Turn the ON/OFF rocker switch to "ON".
7. If the appliance will not operate, follow the instructions "to Turn Off Gas to Appliance" and call service technician or gas supplier.



GAS VALVE

TO TURN OFF GAS TO APPLIANCE

1. Turn the ON/Off switch to "OFF".
2. Turn off all electric power to the appliance if service is to be performed.

10.0 DIRECT SPARK IGNITION (DSI) FOR MODEL ST-42FL-DSI

(PROPANE MODELS NOT FOR USE IN CANADA)

The DSI Module of the fireplace is equipped with a RED indicator light which will come on for approximately 4-seconds when you turn the fireplace ON/OFF switch to "ON". The red light will go off when the main burner lights.

If the fireplace is not operating properly, you will see the RED light "ON" as follows.

<u>FAULT CONDITION</u>	<u>RED LIGHT</u>
1. Internal control failure	Steady on, light does not shut off.
2. Ignition system lockout	Continuous series of 3 flashes.

Do not attempt to service or repair the equipment yourself - Turn the ON/OFF switch to "OFF" and call a qualified service person.

This unit requires 110VAC service in order to operate. Connection to house wiring should **ONLY** be done by a Qualified electrician.

FOR YOUR SAFETY READ BEFORE OPERATING DSI CONTROLS

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 does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.

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.

C. 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.

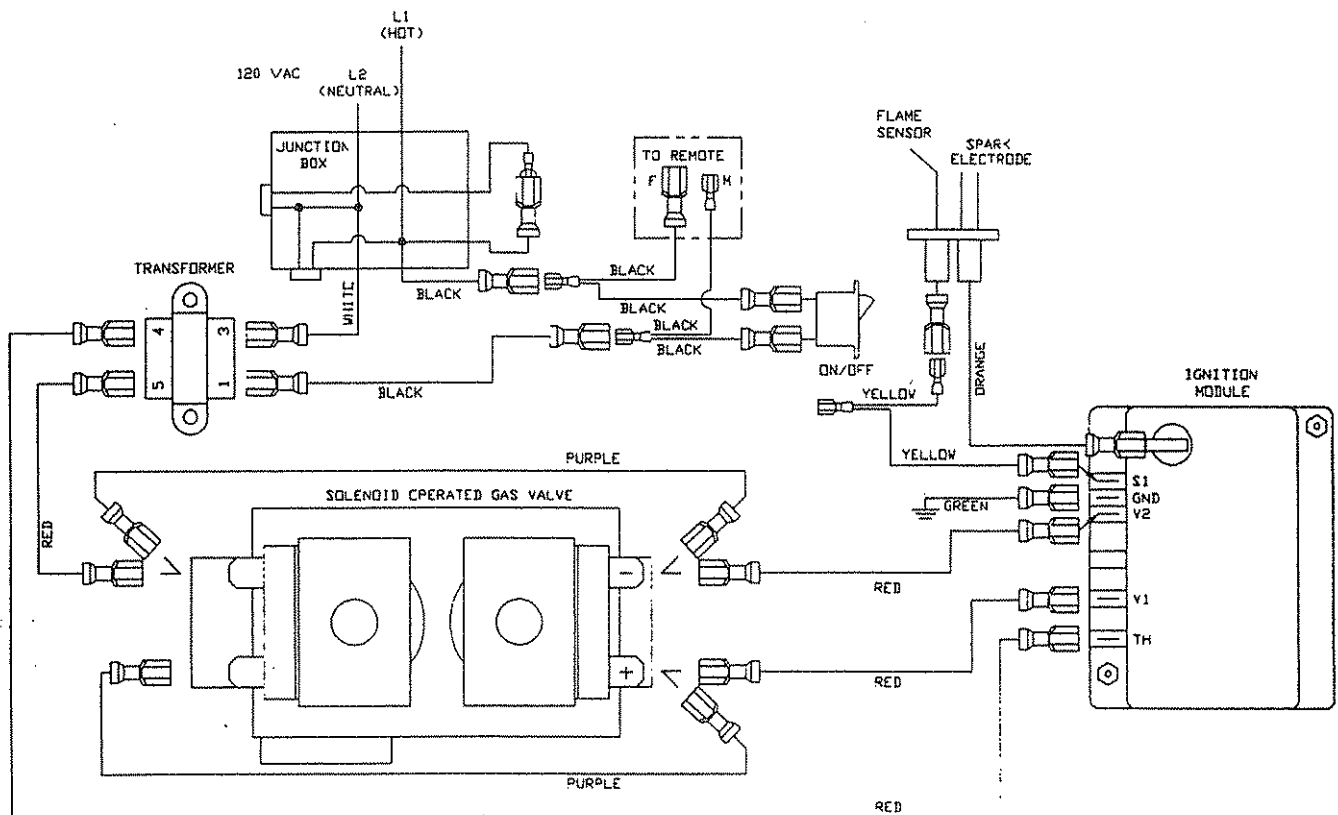
WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electric switch, do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

OPTIONAL SWITCH WIRING MODEL ST-42FL-DSI

An optional Wall Switch (WSK-21) or Remote Control Switch (RCH-09A) may be wired to this appliance. The Wall Switch **DOES NOT** require a separate 110-120 VAC electrical service connection. The remote control receiver **DOES** require 110-120 VAC which is obtained at the pre-installed junction box. Connect 18 A.W.G. minimum wires from the optional switch installed to the accessory wires (labeled Optional Wall Switch or Remote). Set the unit's ON/Off rocker switch to the "OFF" position. Activate the optional switch installed to control the main burner of the unit. Detailed installation instructions for optional switches are found in each accessory kit.

WARNING: DO NOT CONNECT A SEPARATE SOURCE OF 110-120 VAC TO AN OPTIONAL WSK-21 WALL SWITCH INSTALLED TO THIS FIREPLACE.



**LIMITED 10 YEAR WARRANTY
HEAT-N-GLO GAS FIREPLACE PRODUCTS**

In order to presumptively establish the dates to which your HEAT-N-GLO Limited Warranty runs, you must mail the completed warranty card to HEAT-N-GLO FIREPLACE PRODUCTS, INC., 6665 West Highway 13, Savage, MN 55378, within 60 days of the date of the fireplace installation. If you fail to do so, you may be required to prove the date of installation before warranty work can be performed.

The warranty exclusions and limitations of liability are effective upon installation of the fireplace.

Subject to the conditions set forth herein, HEAT-N-GLO FIREPLACE PRODUCTS, INC. ("HEAT-N-GLO") extends the following warranty with respect to HEAT-N-GLO Gas Fireplace Products.

If HEAT-N-GLO is reasonably satisfied that any part or portion of the fireplace covered by this Limited Warranty is defective in material or workmanship under normal use and service as described in the Operating Instructions, HEAT-N-GLO will take the following actions:

1. If the defect is reported during the first year from the date of installation (stainless steel burners and fiber logs are covered for 3 years), HEAT-N-GLO will replace or repair the defective components at its sole expense. The decision whether to replace a component shall be made at HEAT-N-GLO's sole discretion. This Limited Warranty does not cover components broken during shipping, misuse or careless handling. HEAT-N-GLO shall be not responsible for any indirect, incidental, or consequential damages or for any costs other than those incurred by HEAT-N-GLO to repair or replace the defective component. If components (including venting) other than factory approved components are used, all warranty and liability on the fireplace is voided. **Defects reported after the first year will not be covered by warranty unless they fall within the purview of paragraph 2 or 3 below.**
2. If the following defects are reported during the second year after the date of installation, HEAT-N-GLO will supply replacement parts at the current wholesale price: defective electrical or manual components, optional components or accessories, and glass panels (not including glass panels broken during misuse or careless handling). HEAT-N-GLO shall not be responsible for any labor, transportation or other costs. Furthermore, it shall not be liable for any indirect, incidental or consequential damages.
3. HEAT-N-GLO will replace or repair a defective firebox or heat exchanger, at any time during the 10 years from the date of installation. The decision whether to replace the defective component shall be made at HEAT-N-GLO's sole discretion. HEAT-N-GLO shall not be responsible for any indirect, incidental or consequential damages or for any costs other than those incurred by HEAT-N-GLO to repair or replace the defective component.

This Limited Warranty is the exclusive remedy available to you. If HEAT-N-GLO cannot effectively resolve a warranty problem in an expedient and cost-effective manner, it can discharge its entire warranty liability by refunding the price of the product to you.

Products made by other manufacturers, whether sold with the fireplace or added thereafter, are NOT covered by this Limited Warranty. The use of other unauthorized components will make this warranty null and void. This Limited Warranty will also be void if the appliance is not installed by a qualified installer in accordance with the Installation Instructions. Furthermore, the Limited Warranty will be void if the fireplace is not operated, at all times, according to the Operating Instructions furnished with the fireplace. Any service work must be performed by authorized service representatives.

EXCEPT TO THE EXTENT PROVIDED BY LAW, NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THE FIREPLACE PRODUCT. In States that do not allow limitations on how long an implied warranty lasts, or do not allow exclusion of indirect damages, those limitations or exclusions may not apply to you. You may also have additional rights not covered in this Limited Warranty.

HEAT-N-GLO reserves the right to make changes at any time, without notice, in design, material, specifications and prices. It also reserves the right to discontinue styles and products.

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