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.

INSTALLATION AND OPERATION INSTRUCTIONS

PLEASE READ THIS MANUAL BEFORE INSTALLING AND USING THE FIREPLACE

MODEL DVT-INSERT AND R-INSERT ARE WARNOCK HERSEY LISTED FOR NATURAL GAS OR PROPANE.

Requires one or more of the following vent systems for installation:

DVK-TVC-33 VERTICAL TERMINATION CAP
DVK-ZC-33

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

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

WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

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.

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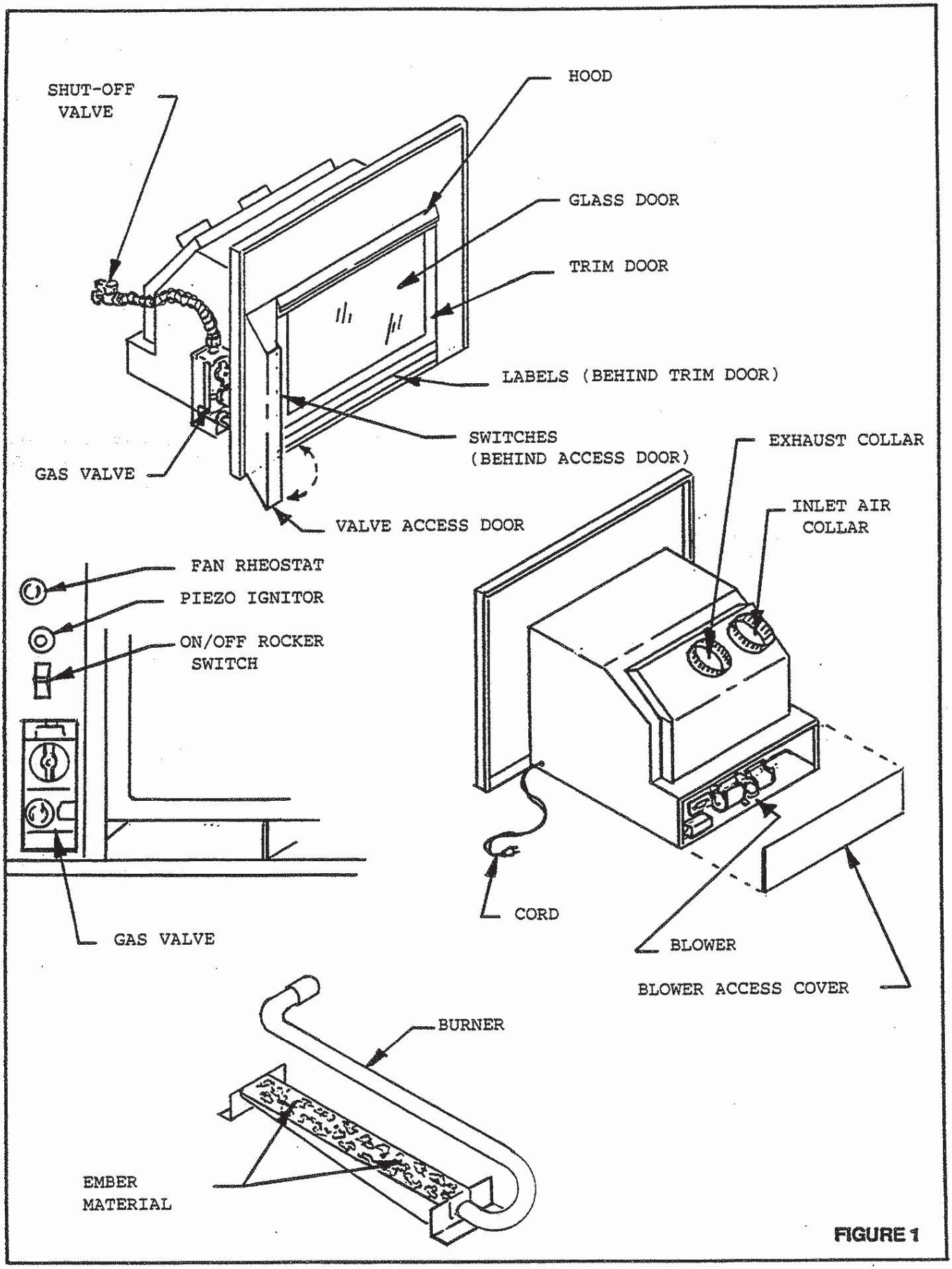

SHUT-OFF VALVE
HOOD
GLASS DOOR
TRIM DOOR
LABELS (BEHIND TRIM DOOR)
SWITCHES (BEHIND ACCESS DOOR)
EXHAUST COLLAR
INLET AIR COLLAR
GAS VALVE
VALVE ACCESS DOOR
FAN RHEOSTAT
PIEZO IGNITOR
ON/OFF ROCKER SWITCH
GAS VALVE
CORD
BLOWER
BLOWER ACCESS COVER
BURNER
EMBER MATERIAL

FIGURE 1

1.0 INTRODUCTION

Models DVT-INSERT and R-INSERT are Gravity-Type Direct Vent Wall Furnaces. They are designed to operate with all combustion air being siphoned from the outside of the building and all exhaust gases expelled to the outside of the building. These models are designed to be installed in a masonry fireplace or factory built fireplace. These models **CANNOT** be recessed inside combustible construction.

Minimum dimensions of the masonry or factory-built fireplace into which these models can be installed, are 31- inches width x 19 depth x 23 height. See the venting section of this manual.

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

These models **MUST** use one of the vent terminations described in the venting section of this manual. **NO other vent terminations or components may be used unless described in these instructions.**

The control system for these models 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 behind the front surround, on the left side of the unit. Access to the controls is gained by removing the trim door and pulling the hinged surround open. 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 - B149 (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 C22.1 Canadian Electric Code (in Canada).

The efficiency rating of the appliance is a product thermal efficiency rating determined under con- continuous operating conditions and was determined independently of any installed system.

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 UNIT'S CONTROL COMPARTMENT, BURNERS, AND CIRCULATING AIR PASSAGE- WAYS 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. NEVER OBSTRUCT THE FRONT OPENINGS OF THE FIREPLACE OR THE DIRECT VENT CAP ON THE EXTERIOR OF THE HOUSE.

Minimum inlet gas supply pressure for purpose of input adjustment is 4.5 inches water column natural gas and 11 inches water column propane. Maximum inlet gas supply pressure is 10.5 inches w.c. natural gas and 13.0 inches w.c. 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).

2.0 INSTALLATION PRECAUTIONS

This direct vent wall furnace 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 factory-installed in the fireplace. The vent system components are shipped in separate packages. 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 Gas Technologies® warranty will be voided by, and Gas Technologies® 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 Gas Technologies®**
- **Improper positioning of the gas logs or the glass door**
- **Installation and/or use of any component part not manufactured or approved by Gas Technologies®, 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.

NOTE: The appliance has an air-tight combustion chamber and takes 100% outside air for combustion. This appliance requires a direct vent system (see venting section of this manual for details).

Both Natural Gas and Propane units may be installed in a bedroom.

THIS FIREPLACE AND VENT ASSEMBLY MUST BE VENTED TO THE OUTSIDE AND MUST NEVER BE ATTACHED TO A CHIMNEY SERVING A SOLID FUEL BURNING APPLIANCE.

Remove the trim door by lifting it up off the four (4) retainer pins.

Remove the glass door by pulling out and turning 90 degrees, the three glass release eye-bolts at the top edge of the glass. Lift the door up and out of the two bottom pin retainers.

Two separate bags of ember materials are shipped with this unit. The bag labelled Golden Ember (GE-93) is flame colorant material. The bag labelled Glowing Ember (050-721) is standard Glowing Ember material.

INITIAL SET-UP: Alternately place a single layer of dime size and shape pieces of Golden Ember (GE-93) and Glowing Ember (050-721) onto the top of the lower burner. See Figure 1.

Save the remaining ember materials for use during fireplace servicing.

FIREPLACE SERVICING: Frequency of fireplace servicing will depend upon use and type of installation.

Carefully brush away or vacuum up any loose materials from the lower burner. Alternately place a single layer of dime size and shape pieces of Golden Ember (GE-93) and Glowing Ember (050-721) onto the top of the lower burner as you did in the initial set-up. Save the remaining ember materials and repeat this procedure at the next fireplace servicng.

NOTE: It may be necessary to clean the glass door after adding GE-93 flame colorant material. Film deposits on the inside of the glass door should be cleaned off using a household glass cleaner. **DO NOT** handle or attempt to clean the glass when it is **HOT.**

The logs are installed by placing the top rear edge of the bottom rear log on the three screws at the back of the firebox. Set the bottom front log on the mounting tabs found at both ends of the bottom burner. Position the top right and left logs in the flat cut-out areas on top of the bottom logs. See Figure 2.

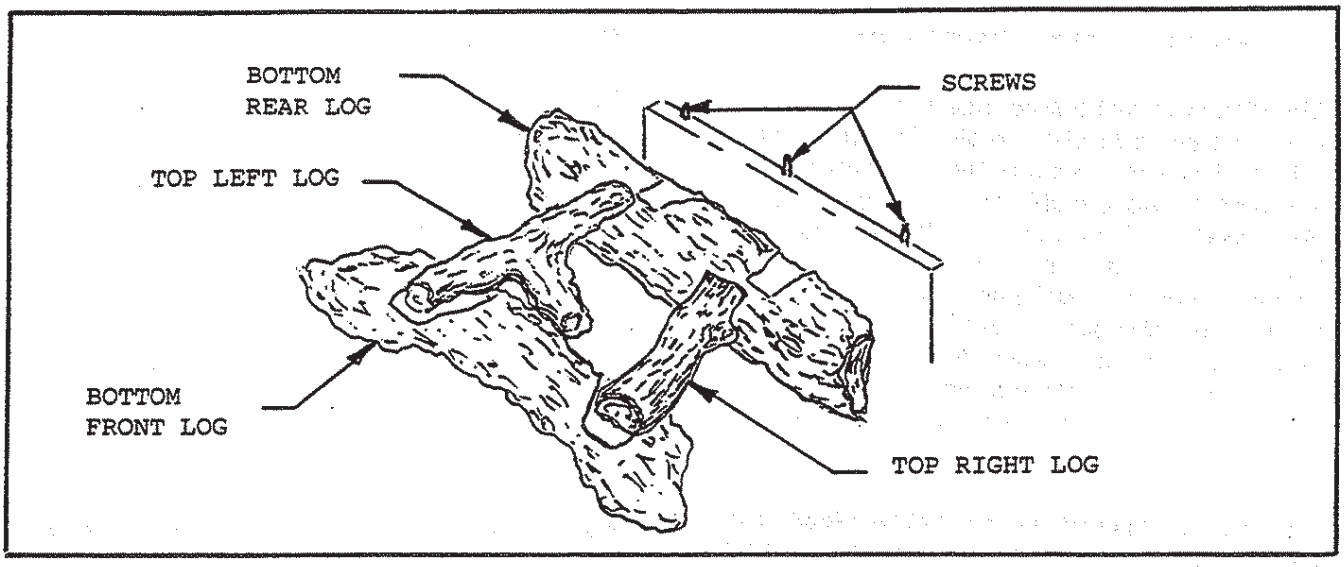


FIGURE 2

WARNING: DO NOT OPERATE THIS APPLIANCE WITH THE GLASS DOOR REMOVED, CRACKED, OR BROKEN. REPLACELENT OF THE GLASS DOOR SHOULD BE DONE BY A LICENSED OR QUALIFIED PERSON. DO NOT STRIKE OR SLAM THE GLASS DOOR.

WARNING: THE GLASS DOOR ASSEMBLY SHALL ONLY BE REPLACED AS A COMPLETE UNIT AS SUPPLIED BY THE GAS FIREPLACE MANUFACTURER. NO SUBSTITUTE MATERIALS MAY BE USED.

WARNING: THE GLASS DOOR ASSEMBLY MUST BE IN PLACE AND SEALED BEFORE THE UNIT CAN BE PLACED INTO SAFE OPERATION. THE UNIT WILL NOT OPERATE UNLESS THE GLASS DOOR IS SECURED IN PLACE AND SEALED.

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

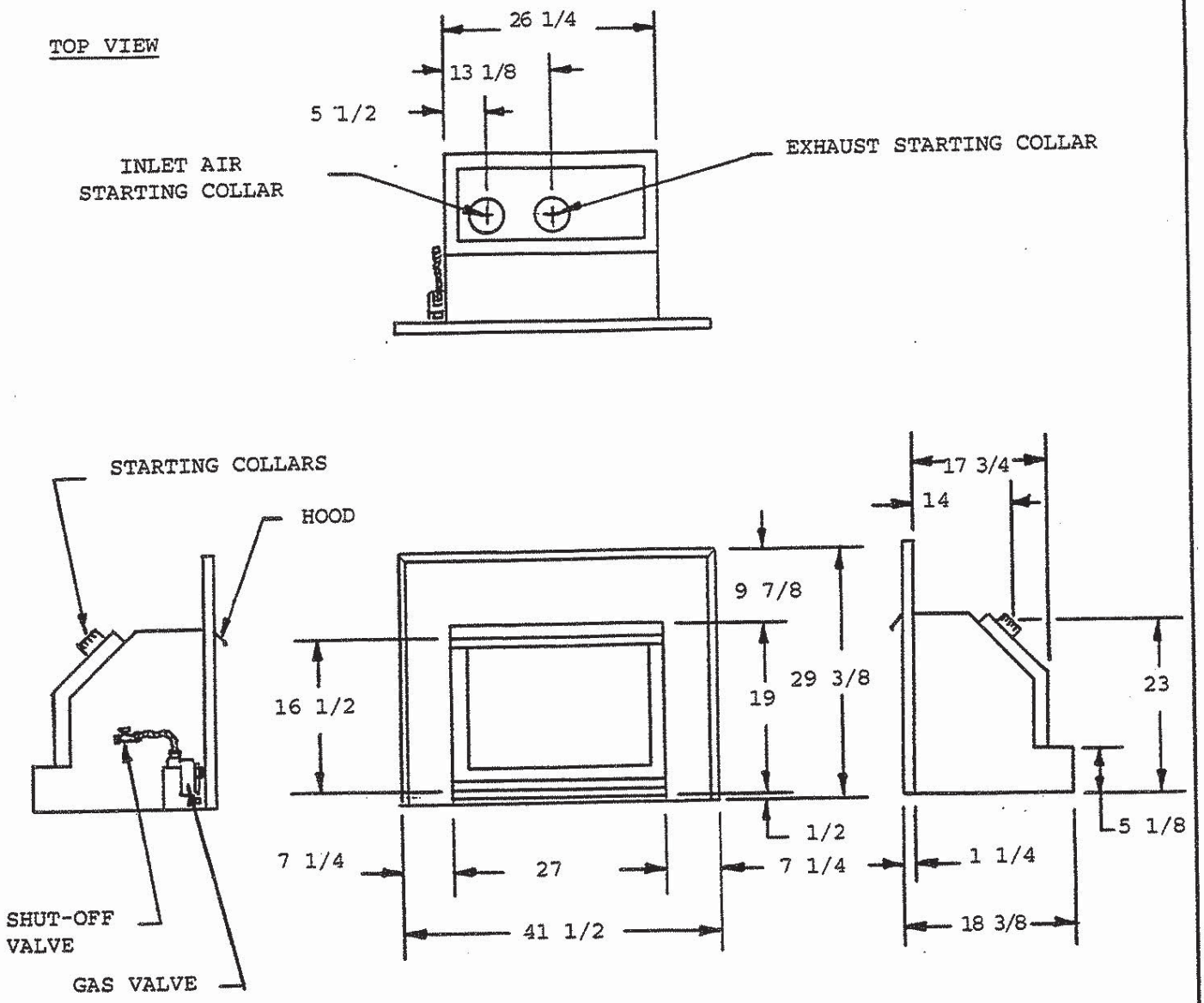
Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the unit and to replace any part of the control system and any gas control which has been underwater.

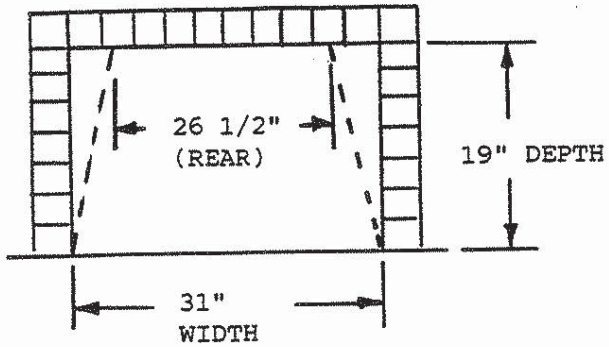
DUE TO HIGH TEMPERATURE, THE APPLIANCE SHOULD BE LOCATED OUT OF TRAFFIC AREAS AND AWAY FROM FURNITURE AND DRAPERIES. CLOTHING OR FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLIANCE.

3.0 INSTALLATION INSTRUCTIONS

In planning the installation for the insert it is necessary to determine where the unit is to be installed, and whether optional accessories (wall switch, thermostat, or remote control) are desired. Gas supply piping should also be planned. This model has a factory installed fan.

This model is designed to be installed in a masonry or factory-built fireplace. The separate 3-inch combustion air and exhaust vent pipes must be run up through the chimney and terminated vertically. Horizontal vent terminations must not be done.





MINIMUM FIREPLACE OPENING

WIDTH: 31"

DEPTH: 19"

HEIGHT: 23"

FIGURE 3

MODEL	VENT TERMINATION APPROVALS	
DVT-INSERT R-INSERT	DVK-TVC-33	DVK-ZC-33

TABLE 1

3.1 VENT SYSTEM INSTALLATION PRECAUTIONS

Before starting installation of vent kits, the installer should read the Gas Fireplace Instructions and the Vent Kit Instructions to ensure that a proper vent installation is completed.

Consult your local Building Codes before beginning the installation.

WARNING: THIS GAS FIREPLACE AND VENT ASSEMBLY MUST BE VENTED DIRECTLY TO THE OUTSIDE AND MUST NEVER BE ATTACHED TO A CHIMNEY SERVING A SEPARTE SOLID FUEL BURNING APPLIANCE. EACH GAS APPLIANCE MUST USE A SEPARATE VENT SYSTEM -

COMMON VENT SYSTEMS ARE PROHIBITED.

CAUTION: Prior to connecting the vent system to the unit, please read sections:

3.3 CONNECTING THE GAS LINE;
3.4 WALL HEATER WIRING;
3.5 BLOWER;
3.6 OPTIONAL ACCESSORY KITS.

3.2 VENT SYSTEM APPROVALS

Table 1 and Figure 4 show the vent systems approved for use with these models. Approved vent system terminations are labeled for identification. 3-inch diameter flexible aluminum or stainless steel gas vent is used for both the incoming combustion air and exhaust vent pipes. **NO OTHER VENTING SYSTEMS OR COMPONENTS MAY BE USED.** Detailed installation instructions are included with each vent termination kit and should be used in conjunction with this manual.

HORIZONTAL VENTING

The vent system on this model **CANNOT** be terminated horizontally.

VERTICAL VENTING

Figure 4 shows the vertical vent termination approvals for use on this model.

NOTE: The minimum vertical rise is 10 feet and the maximum vertical rise is 30 feet. These dimensions are measured from the starting collars of the unit to the end of the last section of vent pipe (See dimension V in Figure 4).

A vertical vent termination system installed on this model will include one (1) length of 3-inch flexible vent pipe for the combustion air, one (1) length of 3-inch flexible vent pipe for the exhaust, and one (1) DVK-TVC-33 or DVK-ZC-33 Vertical Termination Kit.

NOTE: MODEL DVK-TVC-33 IS USED FOR INSTALLATIONS IN MASONRY FIREPLACES. MODEL DVK-ZC-33 IS FOR INSTALLATIONS IN FACTORY-BUILT FIREPLACES.

NOTE: The damper of the masonry or factory-built chimney may have to be removed to allow installation of the flexible-vent pipe.

Install the 3-inch flexible vent pipes down through the chimney. Attach and secure the bottom ends of the flex pipes to the starting collars on the back of the unit with 3 sheetmetal screws on each collar. Slide the gas insert into place, and position any excess flex vent pipe back up into the chimney.

Attach the DVK-TVC-33 or DVK-ZC-33 termination cap to the top of the flexible vent pipe and set the cap in place at the top of the chimney. See Figures 5 and 6.

CAUTION: To avoid downdrafts and/or cold air problems, it is recommended to seal off the area between the termination cap and the top of the solid-fuel chimney opening into which the vent cap has been installed.

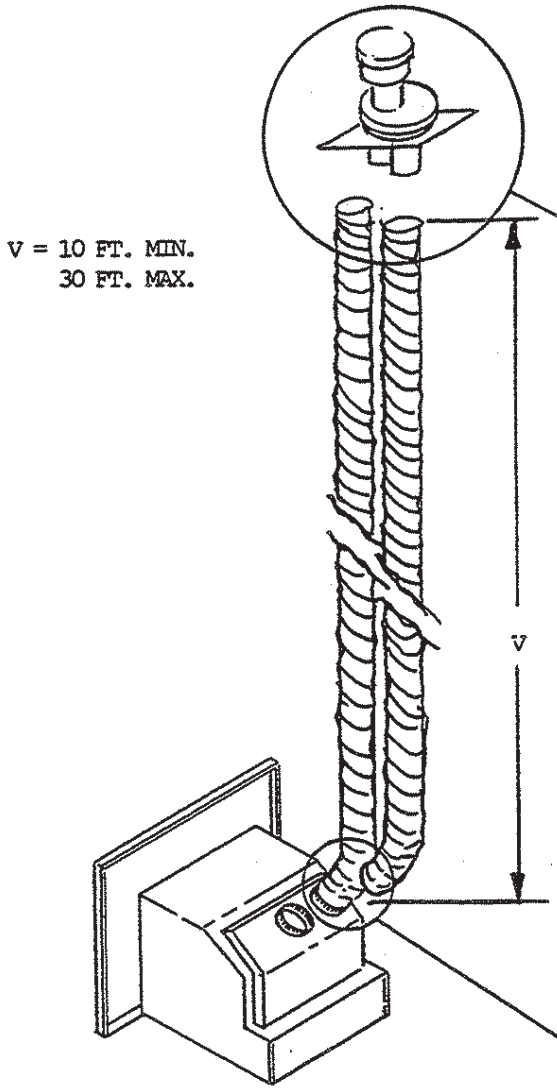


FIGURE 4

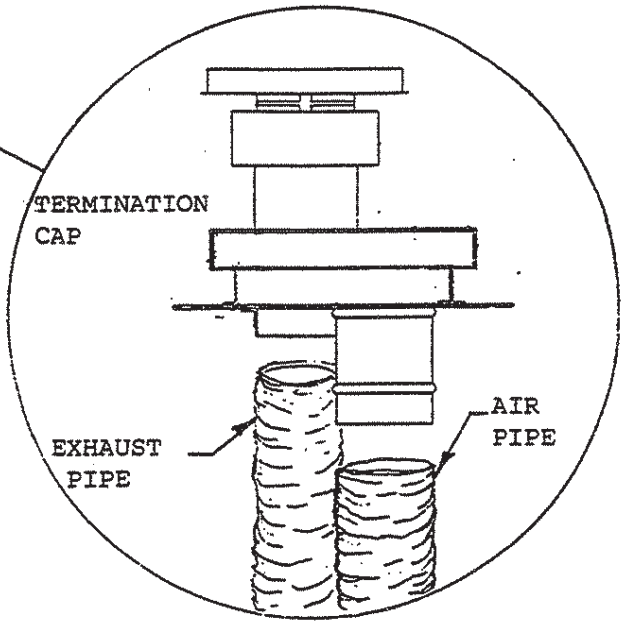


FIGURE 6

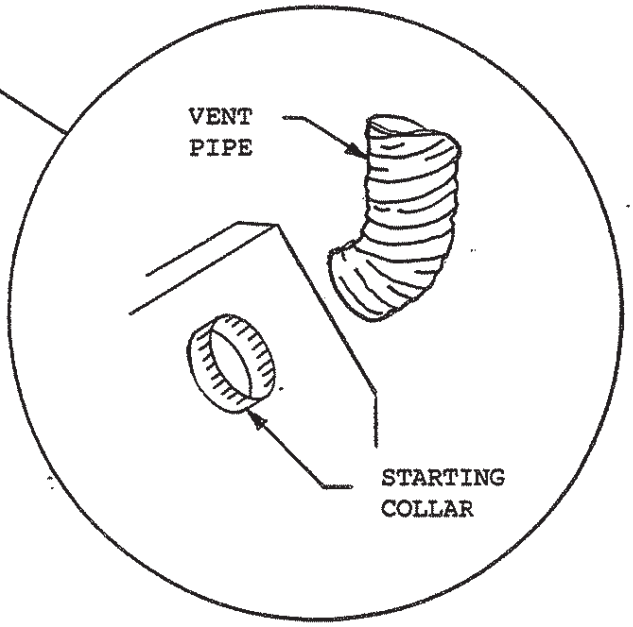


FIGURE 5

WARNING: THE EXHAUST PIPE MUST ONLY BE CONNECTED TO THE CENTER STARTING COLLAR OF THE UNIT AND THE CENTER COLLAR OF THE TERMINATION CAP.

THE INLET AIR PIPE MUST ONLY BE CONNECTED TO THE OUTER COLLAR OF THE UNIT AND CAP.

WARNING: Major U.S. building codes specify minimum chimney and/or vent height above the roof top. These minimum heights are necessary in the interest of safety. These specifications are summarized in the Ten Foot Rule (See Figure 7). The key points of this rule are:

1. If the horizontal distance from the edge of the vent or chimney to the peak of the roof is 10 feet or less, the top of the vent or chimney must be at least 2 feet above the peak of the roof, but never less than 3 feet in height above the highest point where it passes through the roof.

2. If a horizontal distance from the edge of the vent or chimney to the peak of the roof is more than 10 feet, a vent or chimney height reference point is established that is on the surface of the roof a distance of 10 feet from the edge of the vent or chimney in a horizontal plane. (See Figure 7) The top of the vent or chimney must be at least 2 feet above this reference point, but never less than 3 feet in height above the highest point where it passes through the roof.

NOTE: THIS ALSO PERTAINS TO VERTICAL VENT SYSTEMS INSTALLED ON THE OUTSIDE OF THE BUILDING.

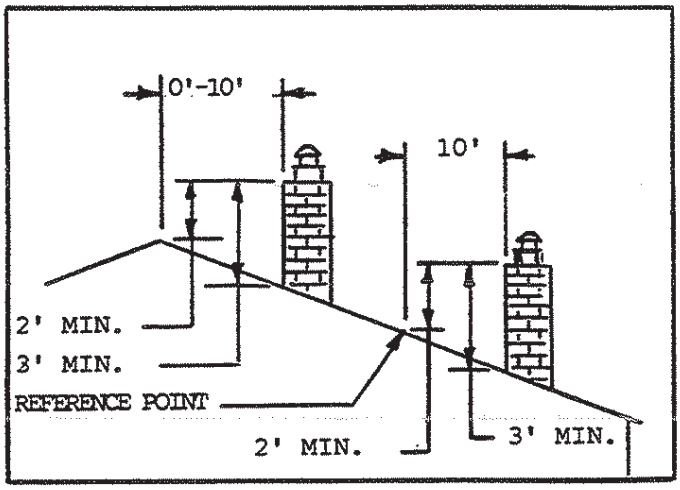


FIGURE 7

3.3 CONNECTING THE GAS LINE

This model has a listed shut-off valve and a listed flexible gas connector (Model Flex-12) installed to the supply side of the gas control valve. The gas supply line should be installed and connected to the shut-off valve by a qualified service person in accordance with all prevailing building codes. Consult local building codes to properly size the gas supply line leading to the 1/2-inch shut-off valve. A 1/8-inch NPT plugged tapping, accessible for a test gauge connection should also be provided for the supply line. Figure 8 shows the control valve, flex-connector, and shut-off valve location on the unit.

Support the flexible connector when connecting the line to the shut-off valve. A coiled copper tubing (internally tinned) can be used as the supply line inside the masonry fireplace. Consult local codes.

After the gas pipe installation is complete, check carefully all gas connections for leaks with a soap solution. **DO NOT USE AN OPEN FLAME.**

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

3.4 WALL HEATER WIRING

The unit wiring diagram for these models is shown in Figure 9. The control valve **DOES NOT** require 110-120 VAC to operate.

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

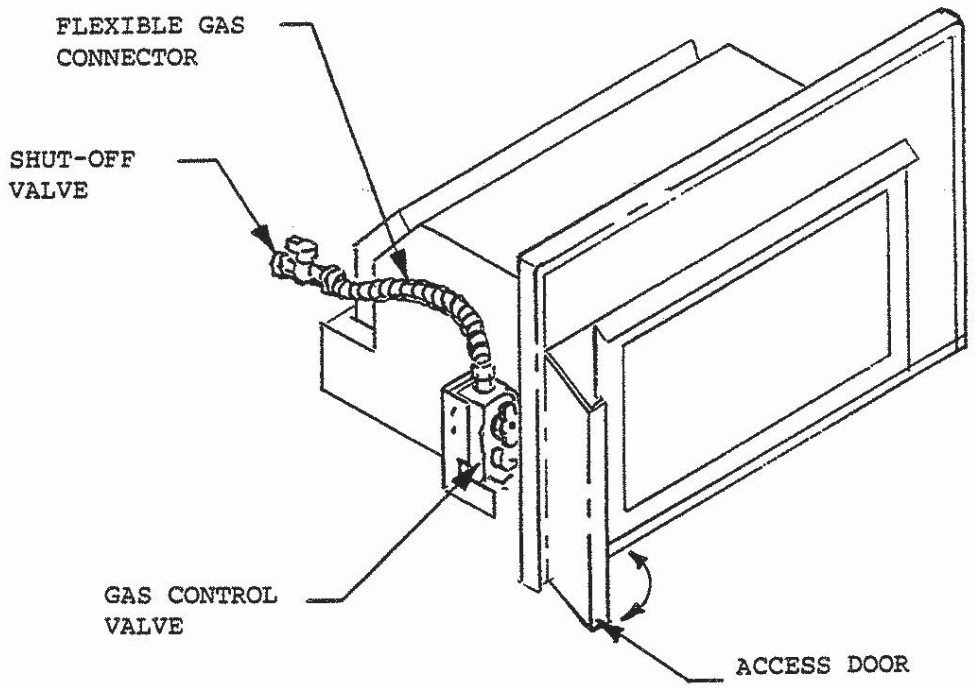


FIGURE 8

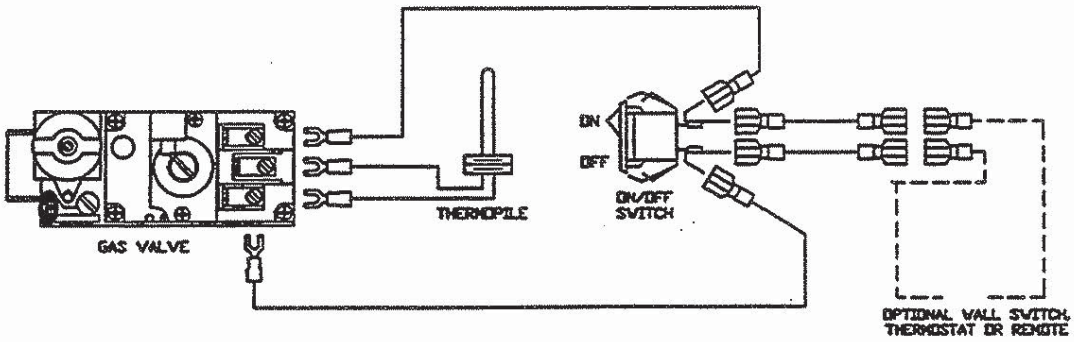


FIGURE 9

3.5 BLOWER

These models have a factory installed Blower, Junction Box, variable speed ON/OFF Rheostat Control Switch, and Temperature Sensor Switch for the blower. The blower, temperature sensor switch, and junction box are located behind the cover plate at the back of the unit. To provide the 110-120 VAC, 60 HZ needed at the Junction Box, simply plug the 3-prong grounded cord into a 3-prong grounded 110-120 VAC, 60HZ wall outlet. This cord exits the unit at the lower right hand front surround corner. To operate the blower, turn the Rheostat Switch "ON" to a desired setting. The Temperature Sensor Switch will automatically turn the blower ON when the unit warms up. See Figure 10.

NOTE: IF THE BLOWER SYSTEM NEEDS SERVICING, THE MODEL MUST BE REMOVED FROM THE MASONRY OR FACTORY-BUILT FIREPLACE TO ACCESS THE BLOWER.

3.6 OPTIONAL ACCESSORY KITS

An optional remote control kit is available. Use of this kit REQUIRES 110-120 VAC electrical service. The RCH-09A remote control kit receiver is mounted to a 110-120 VAC wall outlet and does not require a junction box. Detailed installation instructions are found in each accessory kit.

An Optional Wall Switch (WSK-21) or Thermostat (WH-STAT) for turning the fireplace ON/OFF is also available. These kits do NOT require 110 VAC. Connect the low voltage wires from the optional switch to the red and brown pigtail wires from the ON/OFF rocker switch. These wires are labled "FOR REMOTE, THERMOSTAT, OR WALL SWITCH ONLY". Turn the unit's ON/OFF rocker switch to the "OFF" position. See Figure 9 - Unit Wiring Diagram.

NOTE: POSITION THE WALL SWITCH OR THERMOSTAT SO THAT A MAXIMUM OF 25 FEET OF WIRING FROM THE SWITCH TO THE WALL HEATER IS USED. A THERMOSTAT SHOULD BE PLACED A MINIMUM OF 4 FEET FROM THE FLOOR.

3.7 FINISHING

Do not install a combustible mantle or other combustible projection above the top of the unit unless it is a minimum of 12 inches above the front edge of the hood. (Figure 11).

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

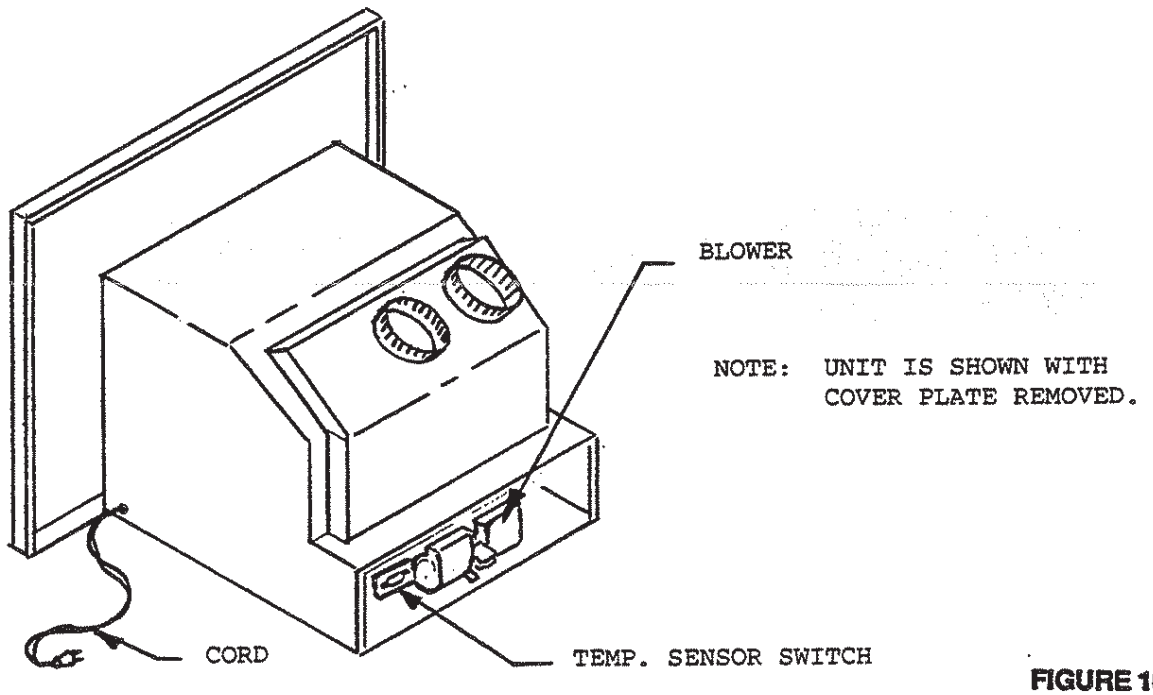


FIGURE 10

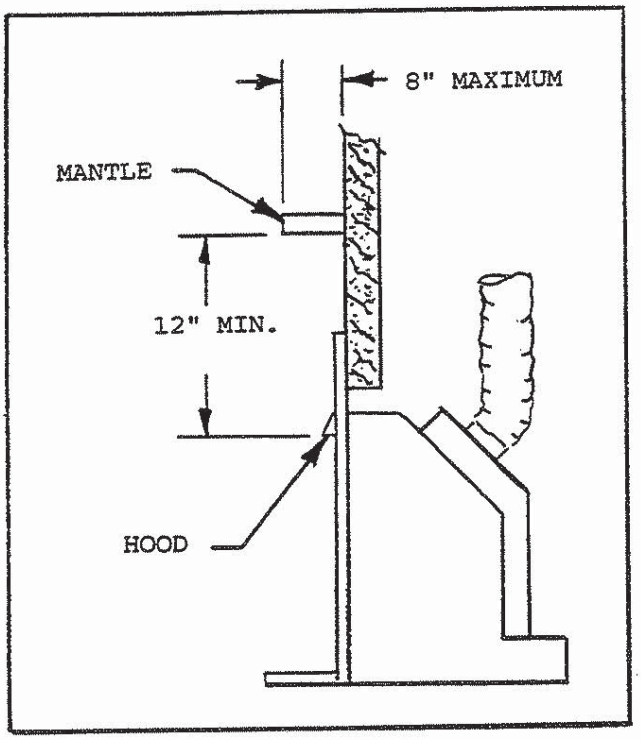


FIGURE 11

3.8 HEARTH EXTENSION

While a hearth extension may be desirable for aesthetic reasons, it is not required for gas wall heaters per ANSI or CAN/CGA testing standards.

4.0 ELECTRICAL SAFETY SYSTEM

WARNING: DO NOT CONNECT 110-120 VAC 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 provide approximately 350 to 500 millivolts. This activates the gas control valve. For protection, the glass door must be installed and sealed. See Figure 12.

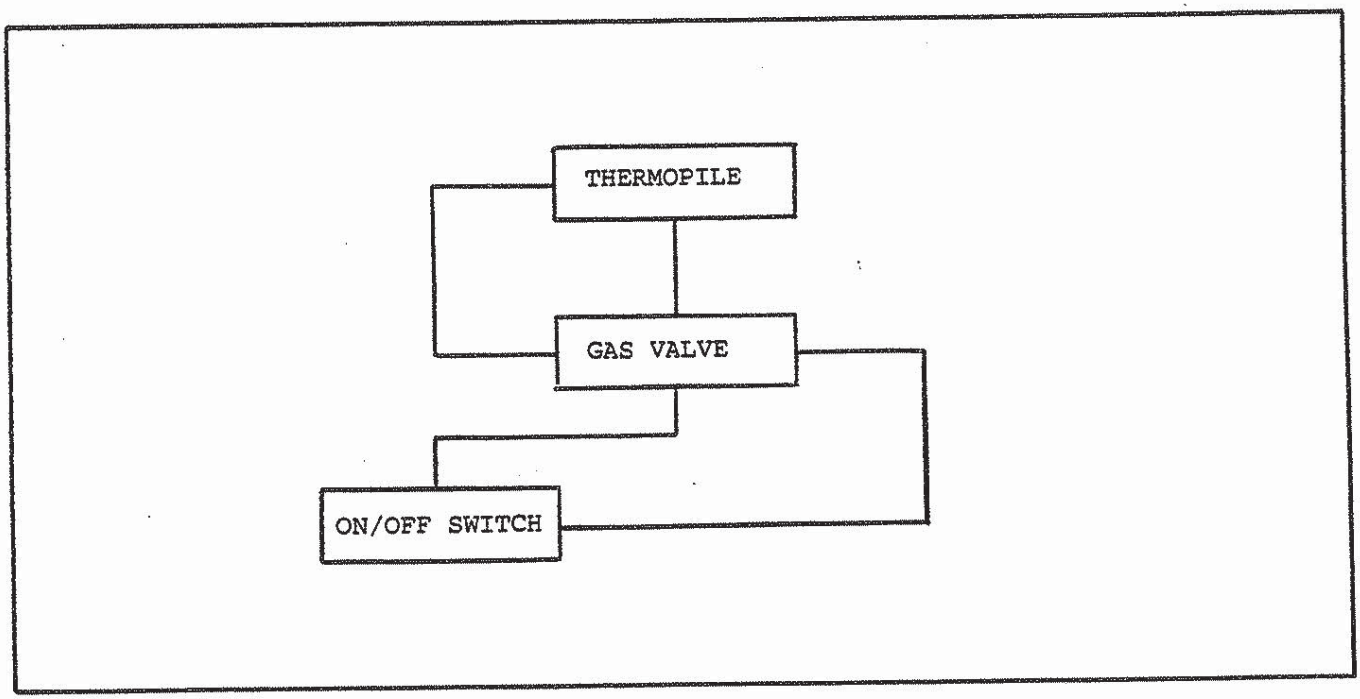


FIGURE 12

5.0 OPERATING GUIDELINES MAIN TENANCE 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 lightings of the appliance will not require such purging.

CAUTION: DURING THE INITIAL PURGING AND SUBSEQUENT LIGHTING'S **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 gas control access door.
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 13).

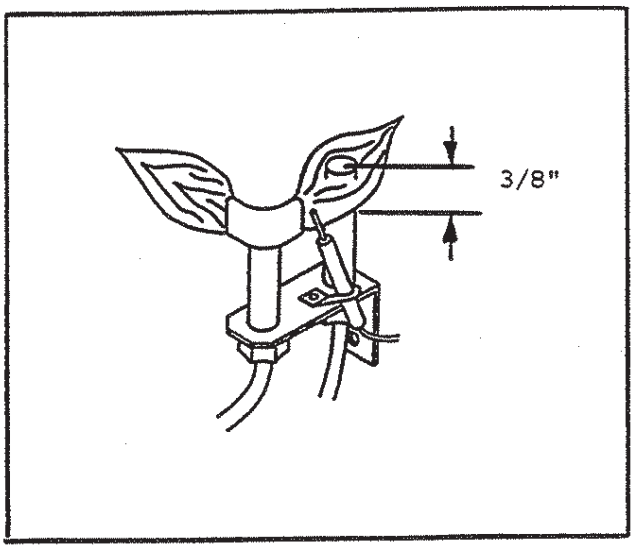


FIGURE 13

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 CHECK-UPS AT THE BEGINNING OF EACH HEATING SEASON.

WARNING: DO NOT USE ABRASIVE CLEANERS ON THE GLASS DOOR ASSEMBLY. DO NOT ATTEMPT TO CLEAN THE GLASS DOOR WHEN IT IS HOT.

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. Remove the trim door by lifting it up off the four (4) retainer pins.

2. To remove the glass door, you must pull out and rotate the three glass release eye-bolts at the top edge of the glass.

3. Lift the door up and out of the two bottom pin retainers.

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 the 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 the orifice or tubing. When the appliance is put back in service check burner flame patterns with Figure 14.

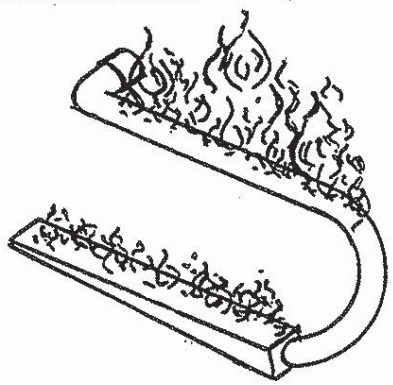


FIGURE 14

5.3 LOG REPLACEMENT

1. Remove the trim door and glass door assemblies (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 the glass door and trim door.

5.4 GLASS DOOR REPLACEMENT

1. Before replacing the glass door make sure logs are properly positioned.

2. Place the bottom pins of the glass door in the pin retainers. Push the top edge of the door against the unit and latch the glass frame with the three eye-bolts.

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

6.0 SAFETY INFORMATION

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.

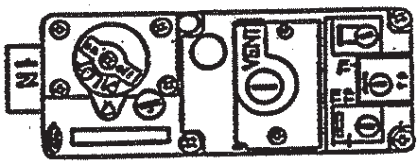
7.0 LIGHTING INSTRUCTIONS

LIGHTING INSTRUCTIONS

1. "STOP!" Read the safety information above first.

2. To access the controls, remove the trim door and open the left surround access 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 CONTORL VALVE

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 on the label located on the previous page. If you don't smell gas, go to 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 glass door removal and replacement.

THERMOPILE
BURNER

PILOT

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 pilot will not stay lit after two tries, turn the control knob to the "OFF" position and call your service technician or gas supplier. 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.

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. Close the control access door and replace the trim door.

TO TURN OFF GAS TO APPLIANCE

1. Remove the trim door and open the control access 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. Close the control access door and replace the trim door.

After the unit has warmed up (i.e. approx. 15 min.), flame height should not be higher than 2-inches below the top of the glass door assembly (Figure 15). If the flame height is higher than this, adjustments must be made to prevent overheating the unit. Please contact your dealer or a qualified service- person to replace the orifice or adjust the valve.

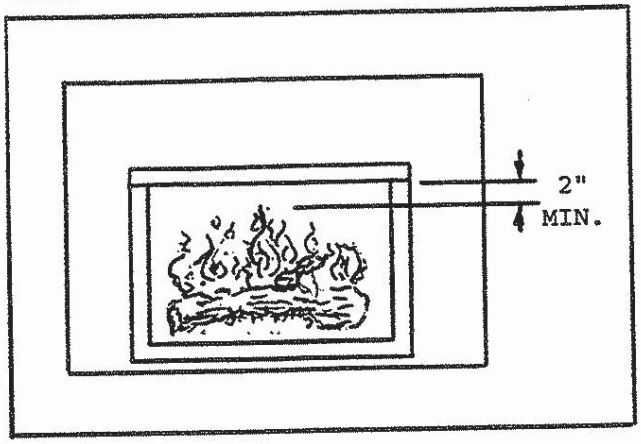


FIGURE 15

NOTE: THE TIPS OF THE FLAMES SHOULD NEVER HIT THE TOP OF THE FIREBOX.

LPG (PROPANE) WARNING

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 oderless 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 usea 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.

8.0 HIGH ALTITUDE INSTALLATION

Warnock Hersey Listed units are tested and approved for elevations from 0-2000 feet (in the United States) and 0-4500 feet (in Canada).

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 the proper orifice size.

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

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

9.0 TROUBLE SHOOTING - DVT-INSERT/R-INSERT

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 to have a strong spark. If OK, replace pilot.
	C. No gas or low gas pressure.	1. Check unit's shut-off valve and remote shut off valves from fireplace. Usually 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. Check L.P. (propane) tank. You may be out of fuel.
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
		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 generator if reading is below specified minimum.
		4. Disconnect thermopile leads from the valve. With pilot burner "ON", take reading at thermopile leads - should read 325 millivolts minimum. Replace thermopile of reading is below this minimum.
	B. Open wire connection in pilot circuit.	1. Check wire continuity and connection in pilot circuit.
	C. Defective valve.	1. Turn green knob to pilot position, depress and light pilot light. If meter reading is less than 325 m.v. after 30 seconds, or the pilot does not stay lit, the valve is defective.
III. Pilot burning, no gas burner, valve knob "ON", on/off switch"ON".	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 be generating sufficient millivoltage (325 m.v.).	1. Recheck Symptom #2.
		2. Pilot flame not physically close enough to the 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.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
	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.
IV. Frequent pilot outrage 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. Main burner goes out while being in operation.	A. No L.P. in tank.	1. Check L.P. (Propane) tank. You may be out of fuel.
	B. 3-inch exhaust pipe leaking exhaust gases back into system.	2. Check for leaks.
	C. Glass too loose and air tight, gasket leaks in corners after usage.	1. Be certain glass assembly is installed correctly and tighten corner.
	D. Bad thermopile.	1. Replace if necessary.
	E. 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 that 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 and free of debris. Make sure that vent system joints are tight and have no leaks.
		2. Check to make sure that no material has been placed in the opening at the burner base.
		3. Be sure glass is tightened properly on unit, particularly along the top corners.

11.0 MOBILE HOME MODEL DVT-INSERTMH AND R-INSERTMH

MODELS DVT-INSERTMH AND R-INSERTMH ARE WARNOCK HERSEY, INC. LISTED

For Natural Gas or Propane for Manufactured Home (Mobile Home) and Recreational Vehicle Installations:

1. A manufactured home (mobile home) installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 [formerly the Federal Standard for Mobile Home Construction and Safety, Title 24, (Part 280), 1975], or, when such a standard is not applicable , the Standard for Manufactured, Home Installation 1982 (Manufactured Home Sites, Communities and Set-Ups), ANSI A225.1-1984.

2. A recreational vehicle installation must conform to the Standard for Recreational Vehicles, ANSI A119-.2-1982.

3. In Canada: Installation must be installed in accordance with the current CSA Z240.4 Gas Equipped Recreational Vehicles and Mobile Housing Standard.

DVT-INSERTMH AND R-INSERTMH

GAS CONVERSION INSTRUCTION

NOTE: IN CANADA, THE CONVERSION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROVINCIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENT OF THE CAN 1-B149.1 AND .2 INSTALLATION CODE.

IMPORTANT: Only a qualified gas service person should install this conversion kit.

WARNING: Turn off gas supply to unit before proceeding with conversion.

WARNING: When changing from natural gas to LP, or LP to natural gas, the burner orifices and the pilot orifices MUST be changed and control valve regulator MUST be reset.

STEP 1: Remove the four logs and the burner deflector shield from the unit. The deflector shield is attached to the base pan with two sheetmetal screws.

STEP 2: Remove the burner from the unit. The burner is attached to the base pan with two sheetmetal screws through tabs on the front lower burner.

STEP 3: Remove the existing main burner orifice (use a 3/4" deep socket) and install the new main burner orifice. Be certain to tighten the orifice with a wrench (use a wrench on the shoulder of the brass connector at the back of the unit).

STEP 4: Remove the 1/4" aluminum tube from the gas pilot (inside the unit). Replace the existing pilot burner orifice with the one coded for the type of gas being installed. Then reattach the 1/4" tube to the pilot with the compression nut.

STEP 5: Using a flat blade screwdriver, adjust the regulator on the valve to the "LP" or "NG" setting, depending on the type of gas you are using.

STEP 6: Connect the gas supply to the unit and leak test all connections with soap water.

STEP 7: Install the burner from the conversion kit. Adjust the air shutter opening at the base of the burner for LP (propane) gas to 3/8". For natural gas, adjust air shutter opening to 1/16" to 1/8".

STEP 8: Re-install the burner and logs.

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

In order to presumptively establish the dates to which your HEAT-N-GLO Limited 10 Year 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 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.