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Canadian Patent 1,297,749

MODEL SL-32-AUST

INSTALLATION AND OPERATION INSTRUCTIONS

AUSTRALIAN GAS ASSOCIATION APPROVED

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 THIS APPLIANCE.

MODEL SL-32-AUST IS AUSTRALIAN GAS ASSOCIATION APPROVED FOR NATURAL GAS OR PROPANE AS A BALANCED FLUE HEATER.

Refer to the appliance data plates for gas consumptions and pressures.

Installation of this appliance should only be carried out by an authorized person in accordance with the manufacturers instructions. All relevant codes and regulations laid down by the gas fitting authorities, municipal building regulations, electrical wiring regulations, and the requirements of the AGA Gas Installation Code must be observed.

This appliance and it's 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 and flue system components are in separate packages. Read all instructions before starting installation and follow these instructions carefully during installation to ensure 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 heater or flue system component**
- **Modification of the heater or balanced flue 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.**

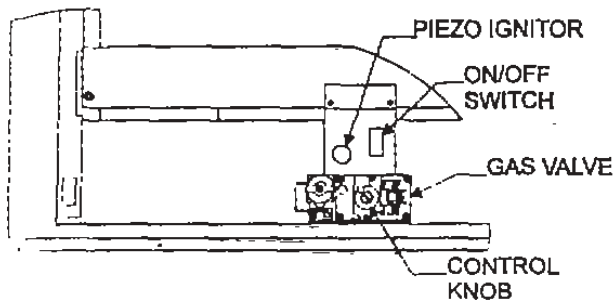
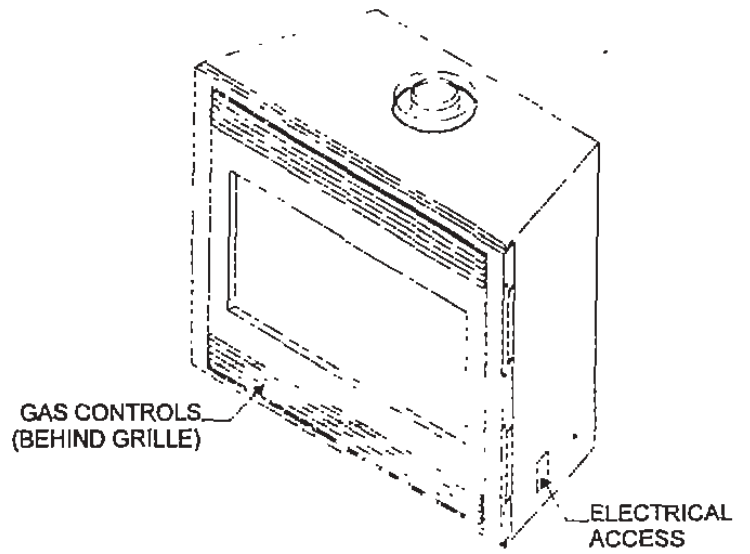
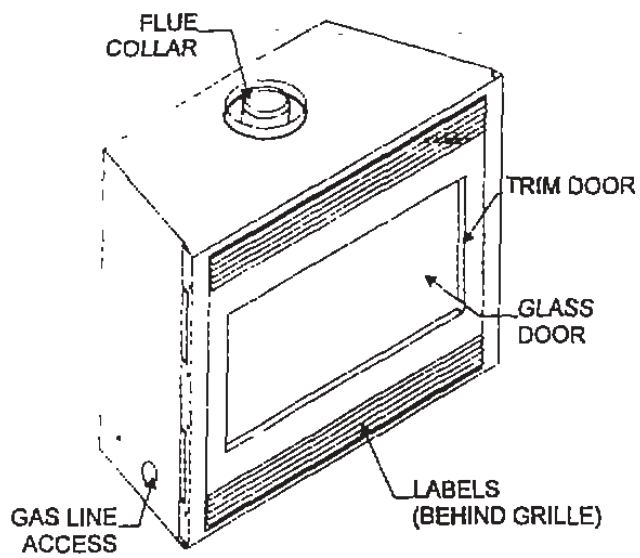
IMPORTANT: Read all instructions carefully before starting installation. Failure to follow these installation instructions may result in a possible fire hazard and will void the warranty.

Save this Manual for future reference.

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GAS LOG POSTIONING

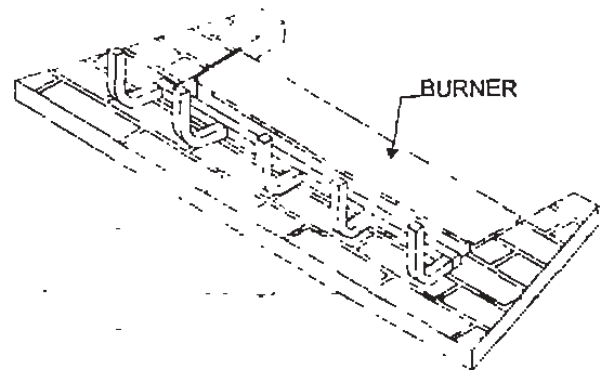
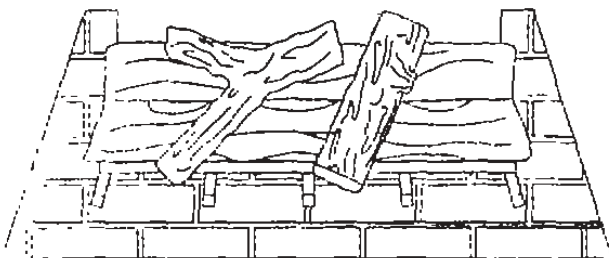


FIGURE 1

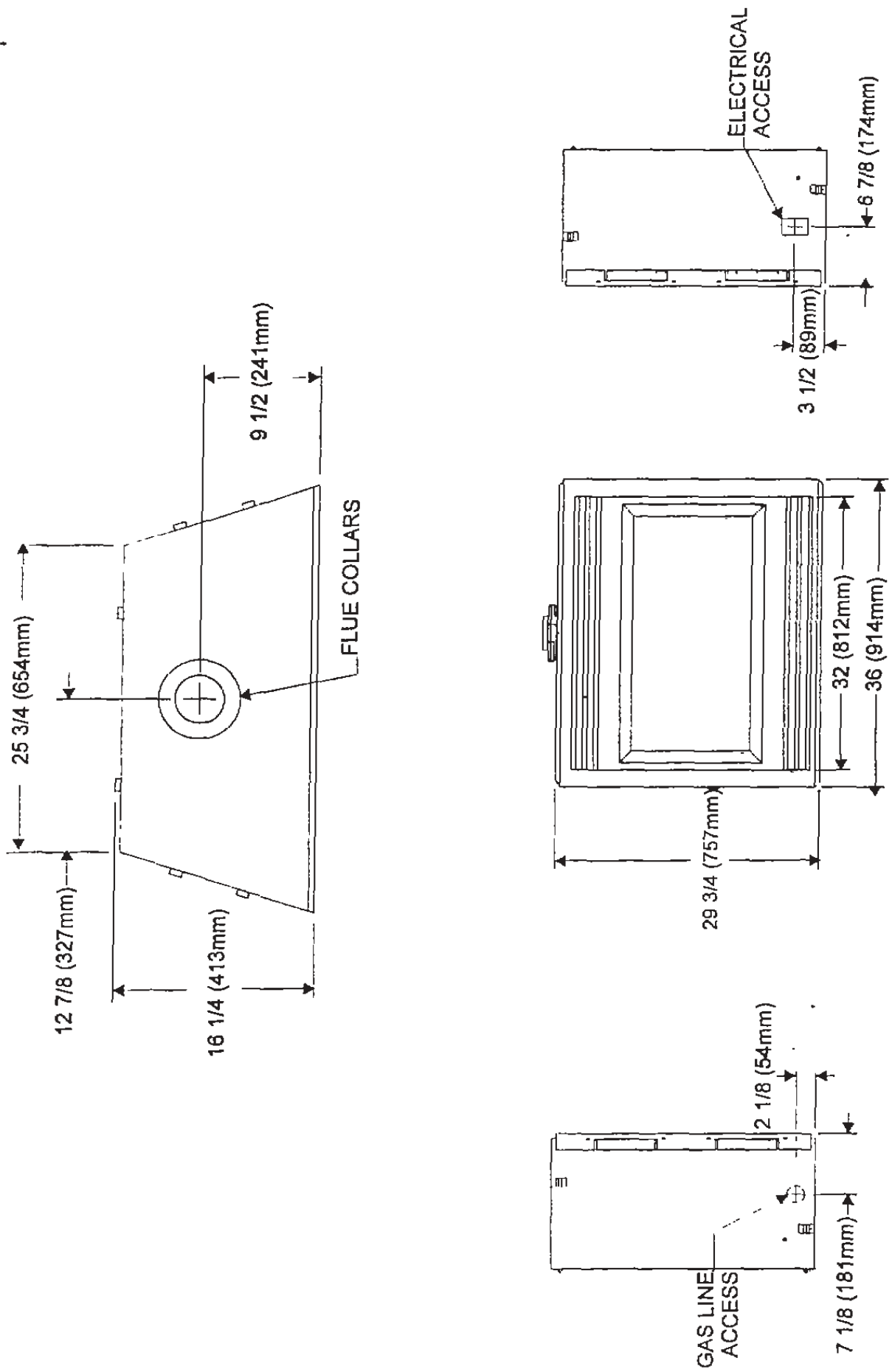


FIGURE 2

1.0 INSTALLATION INSTRUCTIONS

In planning the installation for the heater it is necessary to determine where the unit is to be installed, the type of flue system to be used (straight out, corner, or elevated), and whether optional accessories (fan, wall switch or remote control) are desired. Gas supply piping should also be planned. Refer to the appliance data plate on the base pan of the heater for all gas pressures and input rate information.

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

1. A flat surface (minimum 6mm base).
2. Four (4) corner supports.

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

Heater framing can be built before or after the heater is set in place. Framing should be positioned to accommodate wall covering and heater facing material. The heater framing should be constructed of 2" X 4" (51 x 102mm) lumber or heavier. The framing headers may rest on the heater standoffs. Refer to Figure 2 and Figure 3 for heater and framing reference dimensions.

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

1.1 INTRODUCTION

This model is 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.

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

These units **MUST** use the flue termination described in the flueing section of the manual

The control system for these models are a millivolt type. It consists of a gas control valve/variable regulator, a standing pilot/thermopile/thermocouple, a piezo ignitor, and an ON/OFF switch. The controls are located behind the lower grille. Access to the controls is gained by rotating the grille up. See Figure 1.

Minimum inlet gas supply pressure for purpose of input adjustment is 4.5 inches w.c. (1.13kPa) for natural gas and 11 inches w.c. (2.75kPa) for propane. Manifold (outlet) pressures should be set at 3.2 inches w.c. (.80kPa) for natural gas models and 9.6 inches w.c. (2.40kPa) for propane models.

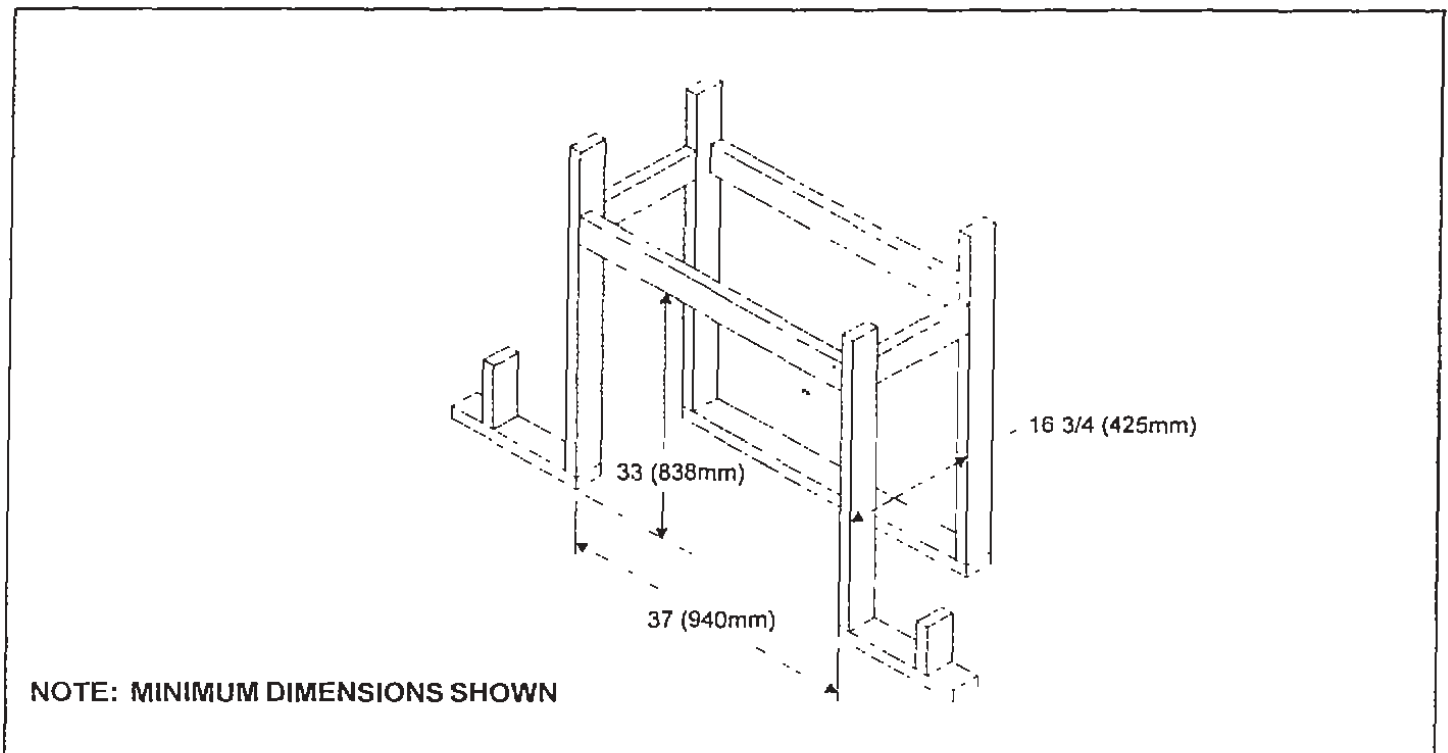
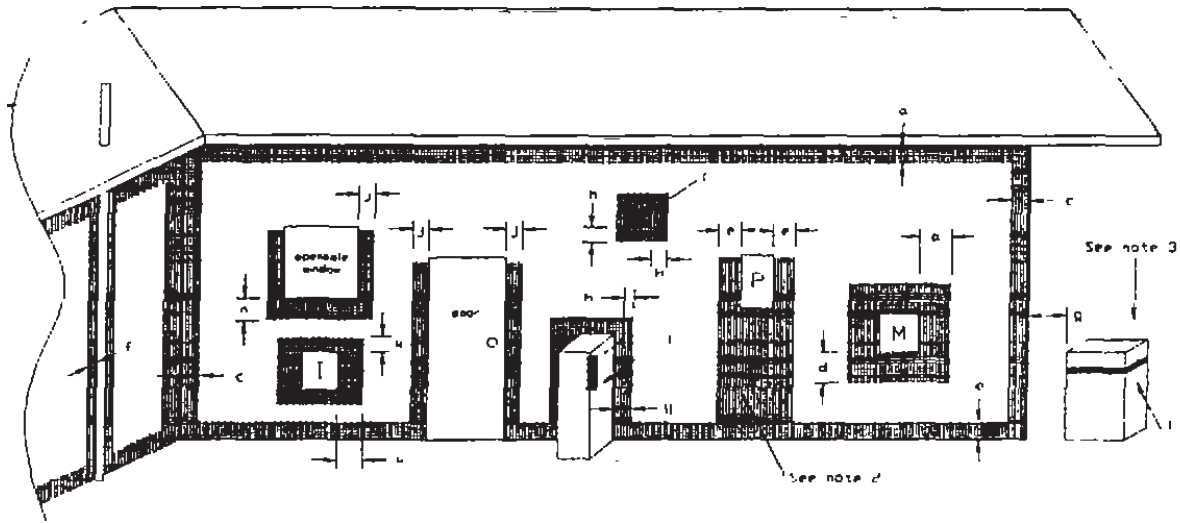


FIGURE 3



T = Flue terminal
I = Mechanical air inlet

M = Gas meter
P = Electricity meter
or fuse box

Shading indicates prohibited areas for flue terminals

- | | | |
|---|---|---------------------------------|
| a | - Below eaves, balconies or other projections:
Appliances up to 50 MJ/h input
Appliances over 50 MJ/h input | MIN.CLEARANCE(mm)
300
500 |
| b | - From the ground or above a balcony | 300 |
| c | - From a return wall or external corner | 500 |
| d | - From a gas meter (M) | 1000 |
| e | - From an electricity meter or fuse box (P) | 500 |
| f | - From a drain or soil pipe | 150 |
| g | - Horizontally from any building structure (unless appliance approved for closer installation) or obstruction facing a terminal | 500 |
| h | - From any other flue terminal, cowl, or combustion air intake | 500 |
| j | - Horizontally from an openable window, door, non-mechanical air inlet, or any other opening into a building, with the exception of sub-floor ventilation:
Appliances up to 150 MJ/h input
Appliances over 150 MJ/h input | 500
1500 |
| k | - From a mechanical air inlet, including a spa blower | 1500 |
| n | - Vertically below an openable window, non-mechanical air inlet or any other opening into a building, with the exception of sub-floor ventilation | See table
below |

CLEARANCES 'n' (mm)			
Space heaters	All other appliances		
Up to 50 MJ/h input	UP to 50 MJ/h input	Over 50 MJ/h & up to 150 MJ/h	Over 150 MJ/h input
150	500	1000	1500

- NOTES:**
1. All distances are measured vertically or horizontally along the wall to a point in line with the nearest part of the terminal.
 2. Prohibited area below electricity meter or fuse box extends to ground level.
 3. See clause 5.13.6.6 for restrictions on a flue terminal under a roofed area.
 4. See Appendix J, Figure J1(a) and J2(a) for clearances required from a flue terminal to a LP Gas cylinder. A flue terminal is considered to be a source of ignition.

MINIMUM CLEARANCES REQUIRED FOR BALANCED FLUE TERMINALS OR THE FLUE TERMINALS OF OUTDOOR APPLIANCES

FIGURE 4

MODEL	FLUE TERMINATION APPROVALS	
SL-32-AJST	SLK-01DA	HORIZONTAL TERMINATION CAP
	SLK-991DA	VERTICAL TERMINATION CAP

TABLE 1

1.2 FLUE SYSTEM APPROVALS

This model is approved to use SL-Series flue pipe components and terminations.

Tables 1 through 7 and Figures 5 through 8 show the flue systems approved for use with these models. Approved flue system components are labeled for identification. **NO OTHER FLUE SYSTEMS OR COMPONENTS MAY BE USED.** Detailed installation instructions are included with each flue termination kit and should be used in conjunction with this manual.

WARNING: THIS GAS APPLIANCE AND FLUE ASSEMBLY MUST BE VENTED DIRECTLY TO THE OUTSIDE AND MUST NEVER BE ATTACHED TO A CHIMNEY SERVING A SEPARATE SOLID FUEL BURNING APPLIANCE. EACH GAS APPLIANCE MUST USE A SEPARATE FLUE SYSTEM-COMMON FLUE SYSTEMS ARE PROHIBITED.

CAUTION: UNDER NO CONDITION SHOULD COMBUSTIBLE MATERIAL BE CLOSER THAN 3 INCHES (2 1/2 INCHES AT WALL FIRESTOPS) FROM THE TOP OF THE PIPE OR 1-INCH TO THE SIDES AND THE BOTTOM FOR HORIZONTAL SECTIONS OF THIS FLUE SYSTEM. VERTICAL SECTIONS OF THIS SYSTEM REQUIRE A MINIMUM OF 1-INCH CLEARANCE TO COMBUSTIBLE MATERIALS ALL AROUND THE PIPE.

For alternative installations, other than depicted, contact your dealer for further information.

Refer to Figure 4 for required clearances to flue terminals.

STRAIGHT-UP VERTICAL VENTING

Table 2 and Figure 5 show straight up vertical flue systems approved for use on this model.

VERTICAL FLUE RESTRICTOR

A Flue Restrictor **MUST** be used when the flue system configuration is straight up vertical from the unit. The Flue Restrictor is placed inside the firebox (See Figure 5)

TO INSTALL THE FLUE RESTRICTOR

1. Remove dress guard and glass door assembly.
2. Remove exhaust shield at firebox top.
3. *Install Vertical Flue Restrictor by locating the slot over the center screw and securing it with 4 self-tapping screws*
4. Re-install the exhaust shield.
5. Replace the glass door and dress guard.
6. Place flue restrictor label on base pan.

NOTE. If flue configuration is changed to terminate horizontally the flue restrictor must be removed and retaining screws must be replaced. See Figure 5.

ELBOWS

The flue systems installed on this gas fireplace may also include one (1), two (2) or three (3) 90-degree elbow assemblies. The following relationships of vertical rise to horizontal run in flue configurations using 90-degree elbows **MUST** be strictly adhered to

ONE (1) 90° ELBOW

Figure 6 and Table 3 show examples of possible installations using one (1) 90° elbow. Dimension V is listed as **MINIMUM** vertical dimensions and dimension H is listed as corresponding **MAXIMUM** horizontal dimensions. Vertical dimensions are based on top of the unit to centerline of pipe. Horizontal dimensions are based on centerline of pipe to end of termination. If one 90° elbow is used in the flue system, a horizontal termination will result

If a 90° elbow is first attached to the unit, the maximum horizontal run is 3-feet (915 mm). The maximum vertical rise is 20-feet (6.1 m), and the maximum horizontal run 16-feet (4.9 m)

TWO (2) 90-DEGREE ELBOWS

Figure 7 and Tables 4 and 5 show examples of possible installations using two (2) 90° elbows. If two 90° elbows are using in the flue system, either a horizontal or a vertical termination can result.

Table 4 and its illustration show a two-elbow flue system with a horizontal termination. Dimensions V are listed as **MINIMUM** vertical dimensions and dimensions $H + H_1$ are listed as corresponding **TOTAL MAXIMUM** horizontal dimensions. The **MAXIMUM** vertical rise is 20-feet (6.1 M) and the **TOTAL MAXIMUM** horizontal run is 15-feet (4.6 M).

Table 5 and its illustration show a two-elbow flue system with a vertical termination. Dimensions V are listed as **MINIMUM** vertical dimensions and dimensions H are listed as corresponding **MAXIMUM** horizontal dimensions. The **TOTAL MAXIMUM** vertical rise $V+V_1$ is 20-feet (6.1M) and the **MAXIMUM** horizontal run is 15-feet (4.6M).

THREE (3) 90-DEGREE ELBOWS

Figure 8 and Tables 6 and 7 show examples of possible installations using three (3) 90° elbows. If three 90° are used in the flue system, either a horizontal or a vertical termination can result.

Table 6 and its illustration show a three-elbow flue system with a horizontal termination. Dimensions V are listed as **MINIMUM beginning** vertical dimensions, dimensions H are listed as **MAXIMUM beginning** horizontal dimensions, and dimensions $H + H_1$ are listed as **TOTAL MAXIMUM** horizontal dimensions. The **TOTAL MAXIMUM** vertical rise ($V + V_1$) is 20-feet (6.1 m). The **MAXIMUM** beginning horizontal run (H) is 6-feet (1.86 M), and the **TOTAL MAXIMUM** horizontal run ($H + H_1$) is 10-feet (3.1 M)

Table 7 and its illustration show a three-elbow flue system with a vertical termination. Dimensions V are listed as **MINIMUM** vertical dimensions and dimensions $H + H_1$ are listed as corresponding **TOTAL MAXIMUM** horizontal dimensions. The **TOTAL MAXIMUM** vertical rise ($V + V_1$) is 20-feet (6.1 M) and the **TOTAL MAXIMUM** horizontal run ($H + H_1$) is 15-feet (4.6 M)

VERTICAL VENTING
V
FT. (M)
20' MAXIMUM (6.1M)

TABLE 2

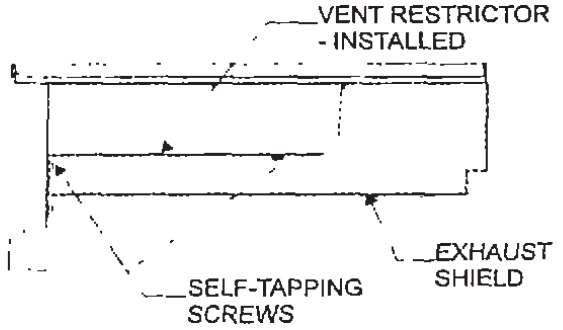
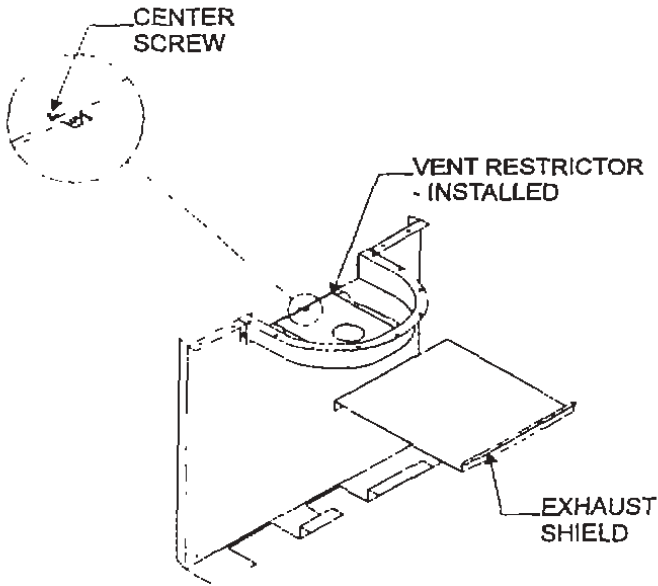
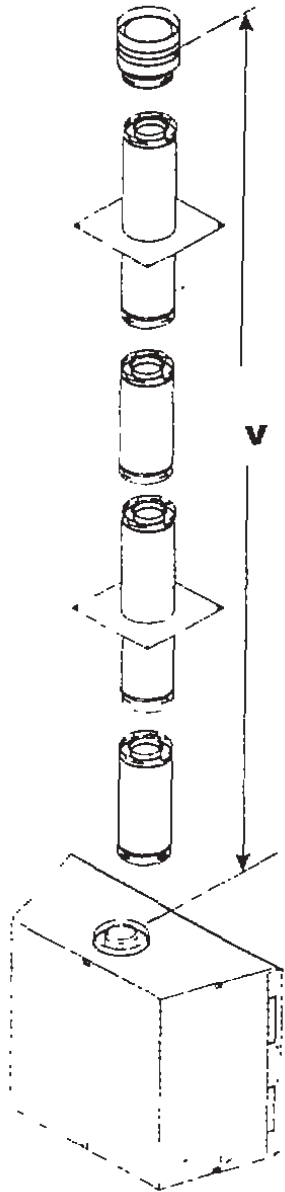


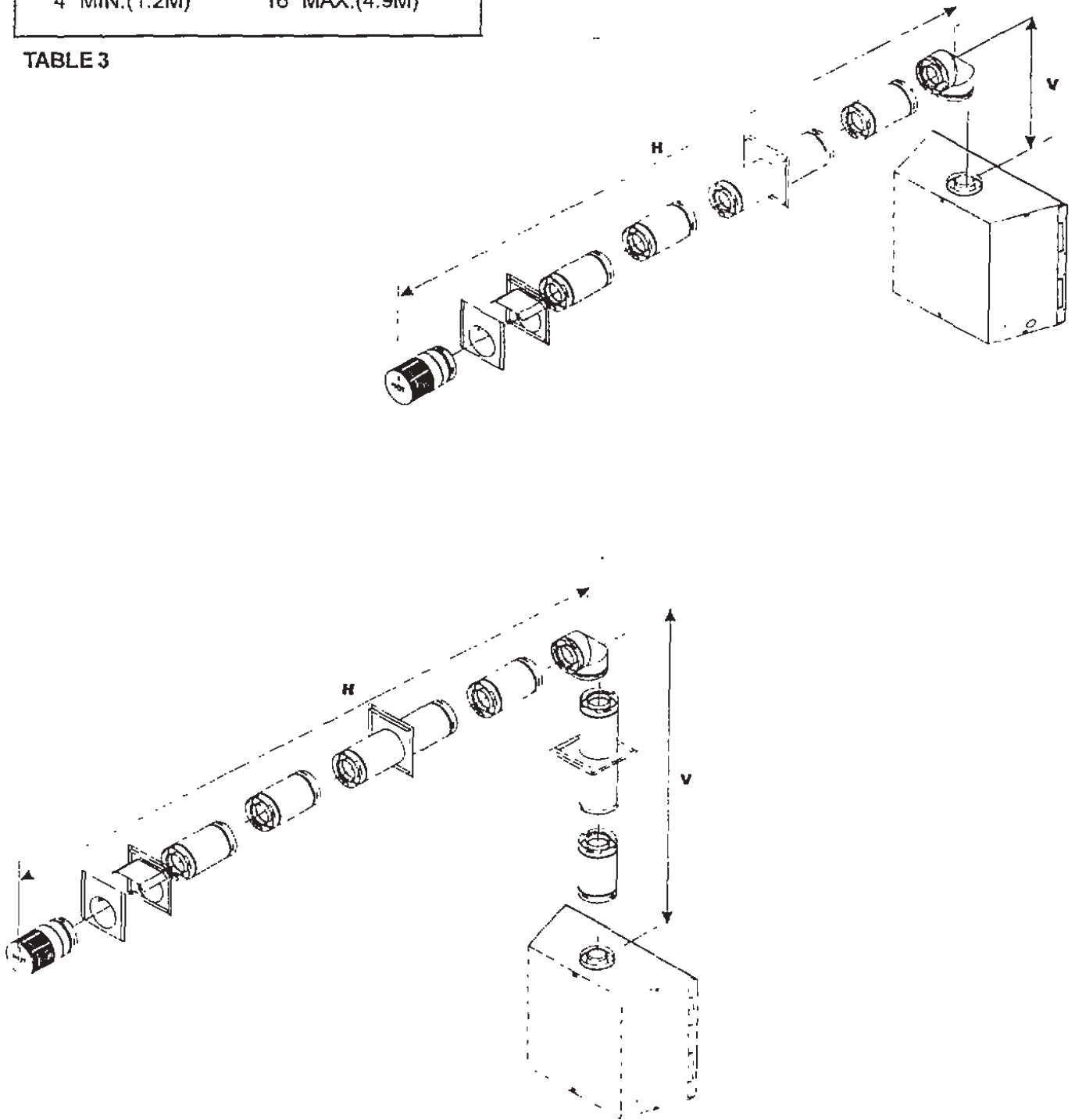
FIGURE 5

VENTING WITH ONE (1) 90° ELBOW

V	H
FT. (M)	FT. (M)
1' MIN. (.3M)	6' MAX. (1.9M)
2' MIN. (.6M)	12' MAX. (3.6M)
3' MIN. (.9M)	15' MAX. (4.6M)
4' MIN. (1.2M)	16' MAX. (4.9M)

TABLE 3

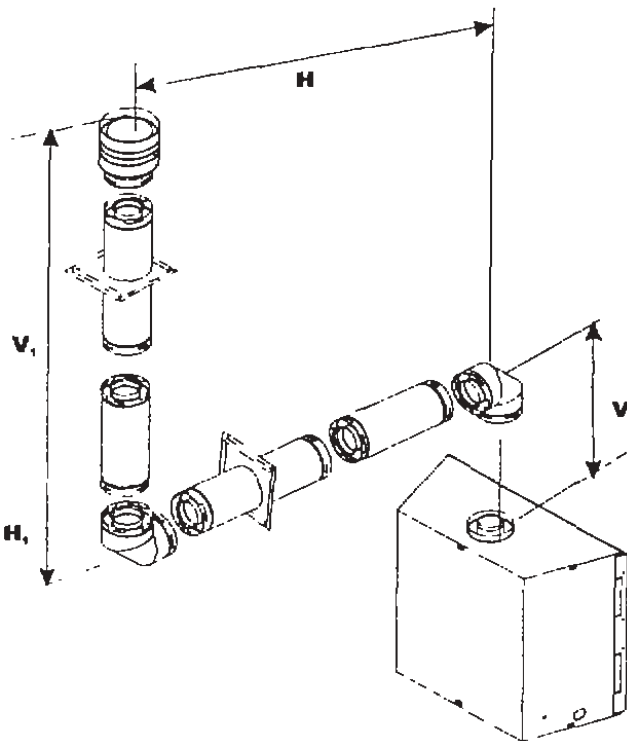
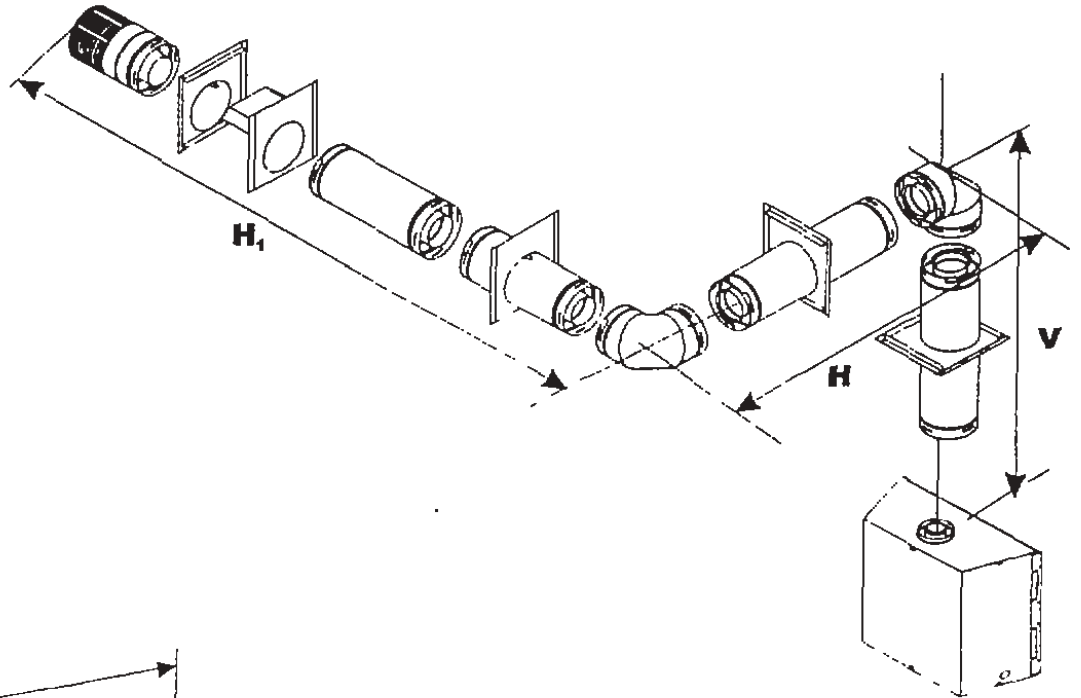
NOTE: IF A 90° ELBOW IS FIRST ATTACHED TO THE UNIT, THE MAXIMUM HORIZONTAL RUN H IS 3-FEET (9M).



VENTING WITH TWO (2) 90° ELBOWS

V	H + H ₁
FT. (M)	FT. (M)
1' MIN. (.3M)	2' MAX. (.6M)
2' MIN. (.6M)	4' MAX. (1.2M)
3' MIN. (.9M)	6' MAX. (1.9M)
4' MIN. (1.2M)	8' MAX. (2.4M)
5' MIN. (1.5M)	15' MAX. (4.6M)
20' MAX. (6.1M)	15' MAX. (4.6M)

TABLE 4



VENTING WITH TWO (2) 90° ELBOWS

V	H
FT. (M)	FT. (M)
1' MIN. (.3M)	2' MAX. (.6M)
2' MIN. (.6M)	4' MAX. (1.2M)
3' MIN. (.9M)	6' MAX. (1.9M)
4' MIN. (1.2M)	8' MAX. (2.4M)
5' MIN. (1.5M)	15' MAX. (4.6M)
	15' MAX. (4.6M)

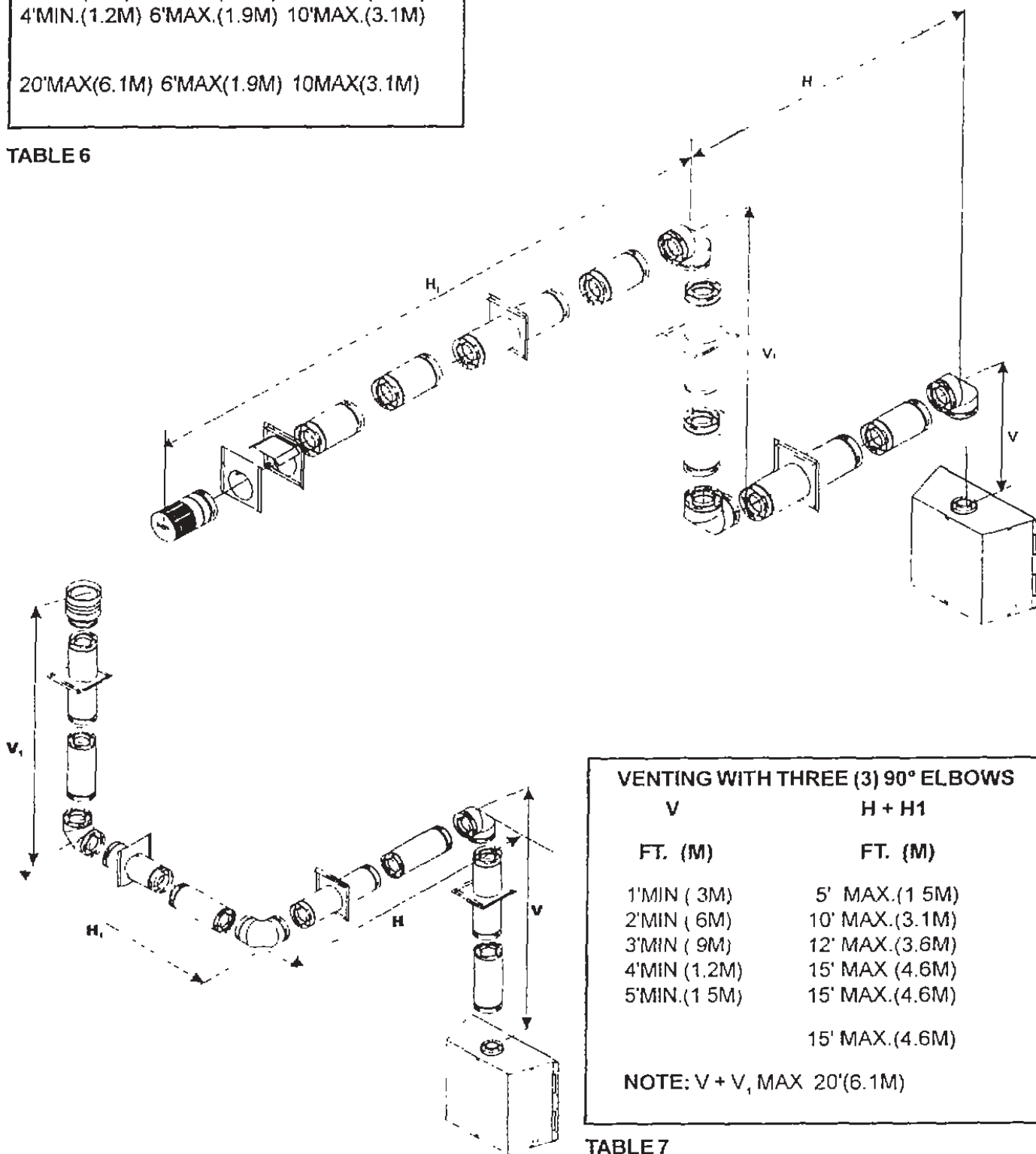
NOTE: V + V₁ MAX 20' (6.1M)

TABLE 5

VENTING WITH THREE (3) 90° ELBOWS

V	H	H + H ₁
FT. (M)	FT. (M)	FT. (M)
1'MIN.(.3M)	2'MAX.(.6M)	5'MAX.(1.5M)
2'MIN.(.6M)	4'MAX.(1.2M)	10'MAX.(3.1M)
3'MIN.(.9M)	6'MAX.(1.9M)	10'MAX.(3.1M)
4'MIN.(1.2M)	6'MAX.(1.9M)	10'MAX.(3.1M)
20'MAX(6.1M)	6'MAX(1.9M)	10MAX(3.1M)

TABLE 6



VENTING WITH THREE (3) 90° ELBOWS

V	H + H ₁
FT. (M)	FT. (M)
1'MIN (.3M)	5' MAX.(1.5M)
2'MIN (.6M)	10' MAX.(3.1M)
3'MIN (.9M)	12' MAX.(3.6M)
4'MIN (1.2M)	15' MAX.(4.6M)
5'MIN.(1.5M)	15' MAX.(4.6M)
	15' MAX.(4.6M)

NOTE: V + V₁, MAX 20'(6.1M)

TABLE 7

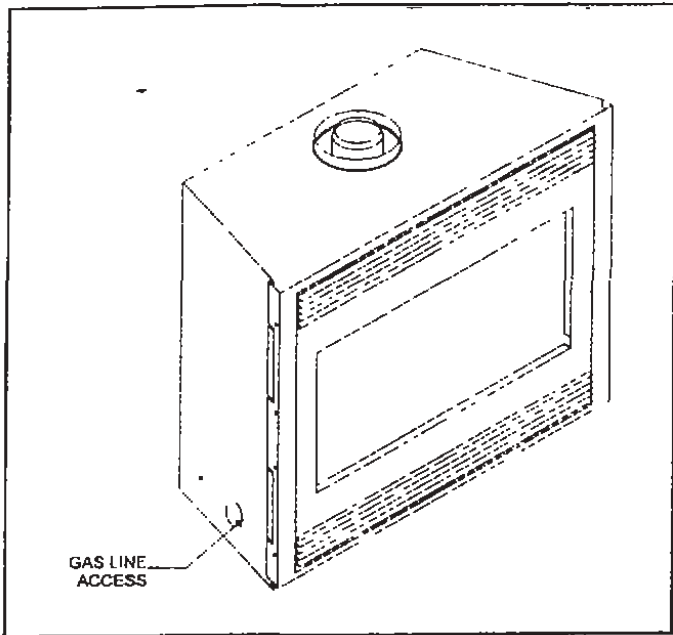


FIGURE 9

1.3 CONNECTING THE GAS SUPPLY

The gas is introduced to the appliance on the left hand side. See Figure 9. 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.

1.4 ACCESSORY FAN

These fireplaces have factory installed Electrical Junction Boxes which are used ONLY for wiring in accessory fans.

Use of the fan requires that the Junction Box (factory installed) be connected to 240 VAC service before permanently enclosing the heater. The access hole for connecting the service wires is found on the right exterior side of the unit. Figure 11 shows the fan, switches, and fan wiring diagram.

1.4.1 INSTALLING THE ELECTRICAL SERVICE TO THE JUNCTION BOX

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

1. Remove the electrical cover plate from the lower side of the heater. Remove the knockout from the plate and attach the Romex clamp (screws to the outside.)

2. Feed the electrical services wires through the Romex clamp and secure the wire to the clamp.
3. Using the wire connector provided inside the junction box, attach the neutral service wire to the blue wire, the hot service wire to the black wire, and the service ground wire to the ground stud of the junction box. See Figure 10. for wire connection detail and Figure 11 for a complete wiring diagram.
4. Re-attach the cover plate to the outside of the heater.

WARNING: DO NOT CONNECT 240 VAC TO THE GAS CONTROL VALVE OR CONTROL WIRING SYSTEM OF THIS MODEL.

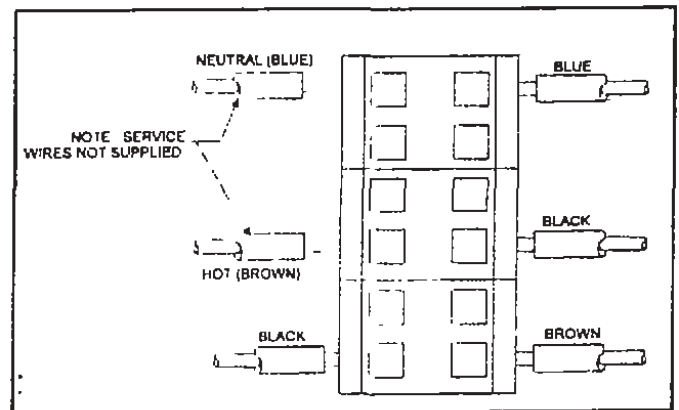
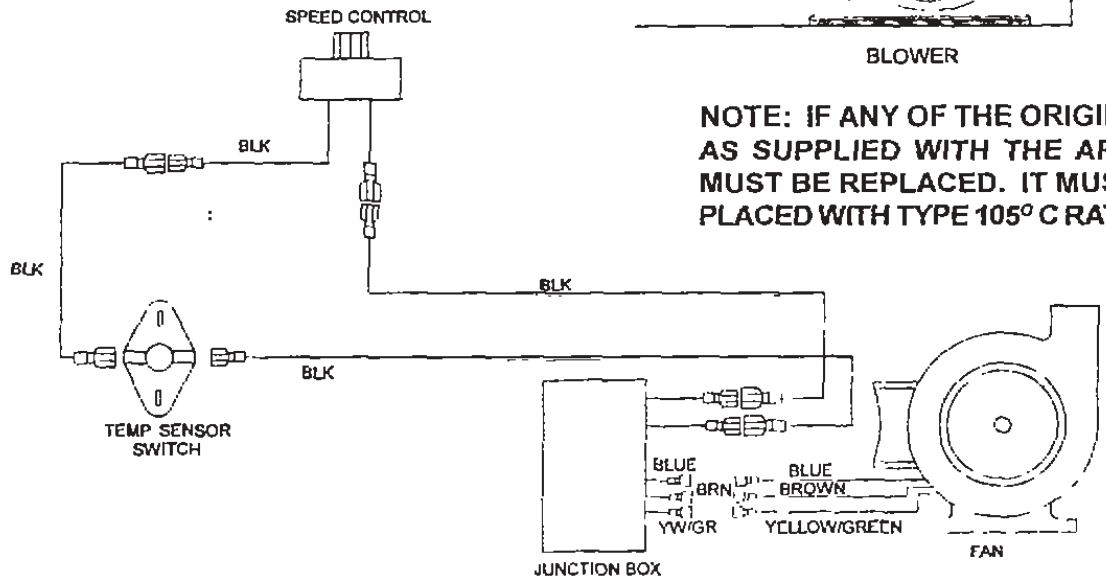
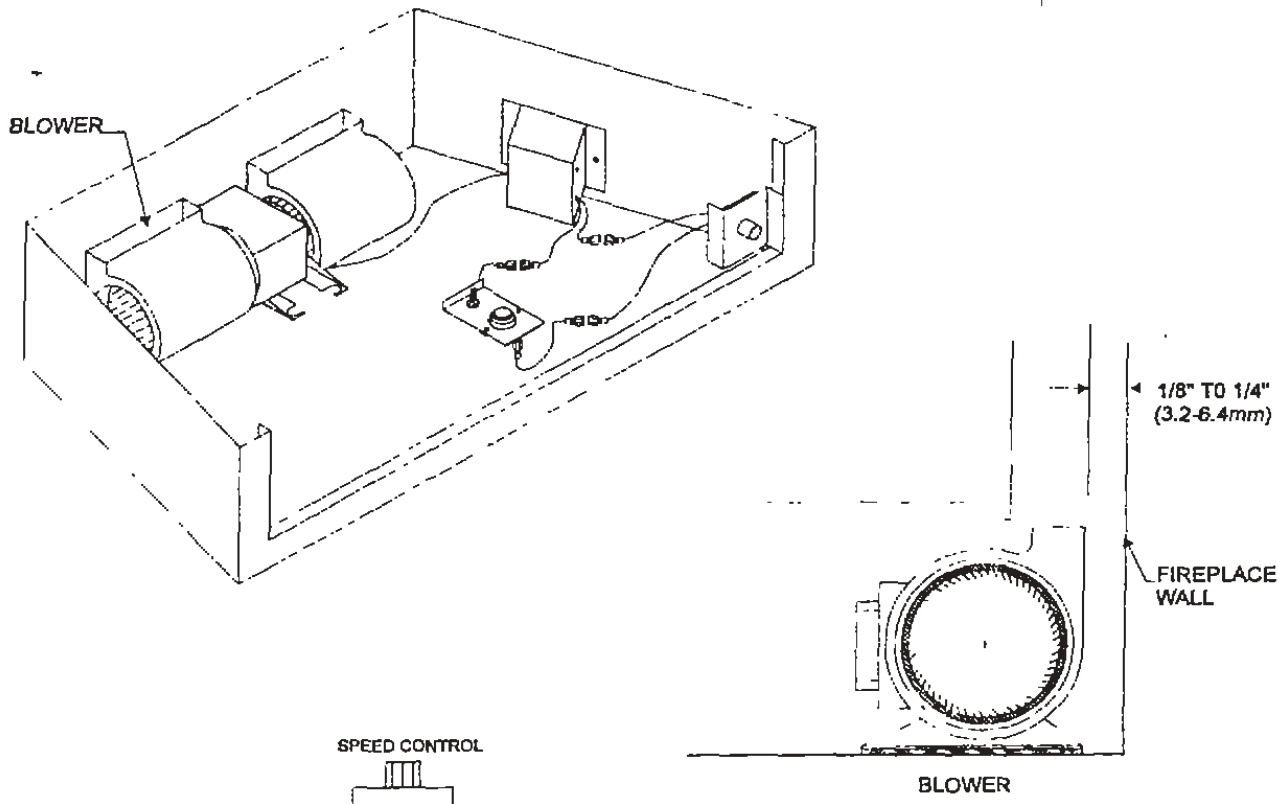


FIGURE 10



NOTE: IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED. IT MUST BE REPLACED WITH TYPE 105° C RATED WIRE.

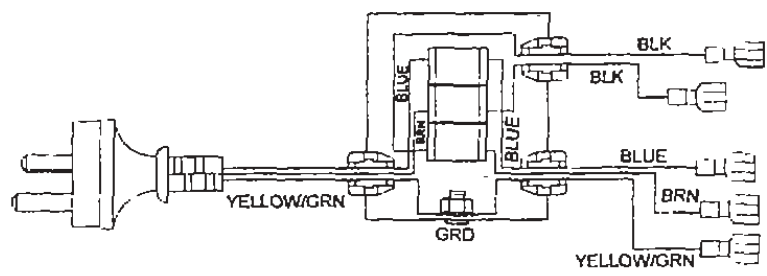


FIGURE 11

1.5 FINISHING

The minimum clearance to combustibles are 0 from the sides, floor, back and top (these clearances are defined by the standoffs). The minimum distance to the perpendicular side wall extending past the appliance front is 1-inch (25mm). Clearance to a mantel-piece is shown in Figure 12.

CAUTION: ALL JOINTS BETWEEN THE FINISHED WALL AND THE FIREPLACE SURROUND (TOP AND SIDES) CAN ONLY BE SEALED WITH 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 12.

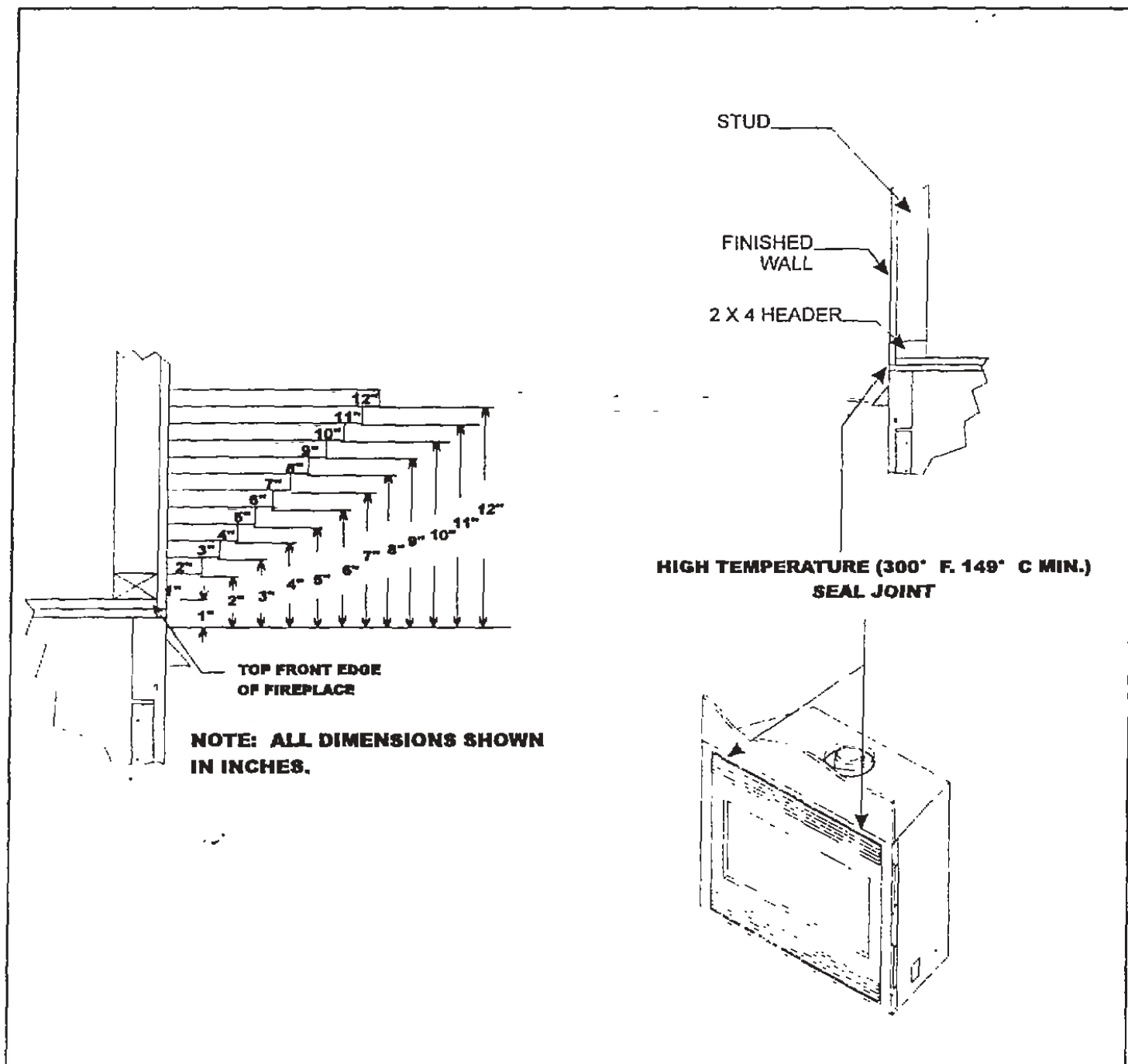


FIGURE 12

1.6 INSTALLER TESTING

The space heater must be tested and be operating according to manufacturers specifications prior to the installer leaving the site. Note: the tips of the flames should never hit the top of the firebox after the unit has warmed up. See Figure 13. Please contact your dealer or a qualified service person to replace injector or adjust valve.

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 Lighting Instructions.

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.

Follow the Safety Information and Lighting Instructions pages of this manual to light the appliance.

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 (9.5mm) at the pilot generator should be engulfed in the pilot flame (Figure 14.)

Burner flame patterns are shown in Figure 15.

Proper gas log positioning is shown in Figure 16.

Follow Section 1.6 TROUBLESHOOTING for adjusting the appliance to operate properly.

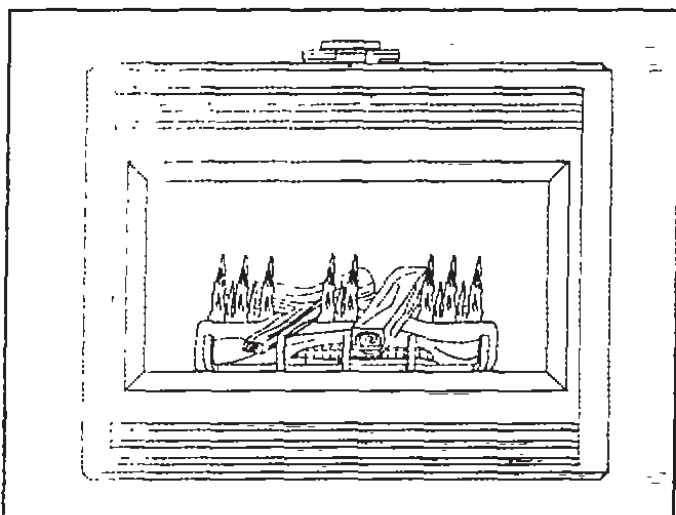


FIGURE 13

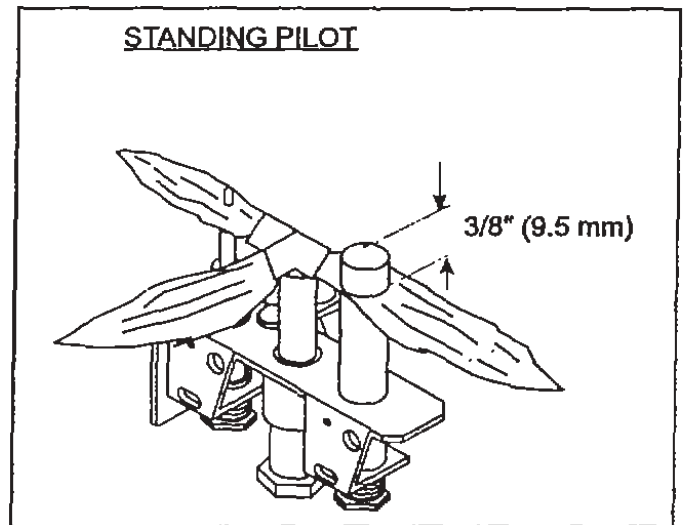


FIGURE 14

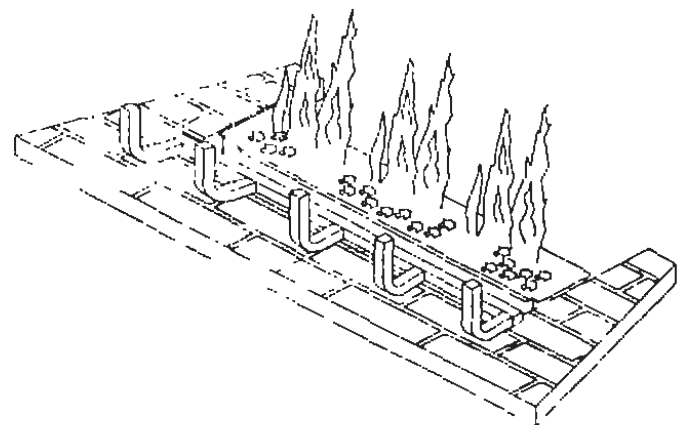


FIGURE 15

GAS LOG POSITIONING

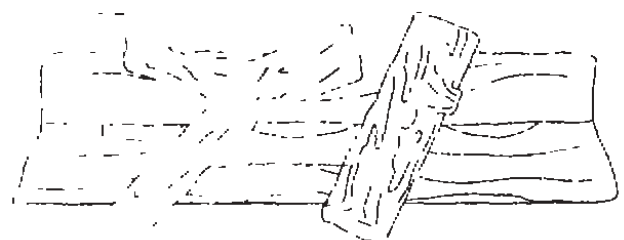


FIGURE 16

2.0 OPERATING INSTRUCTIONS

This appliance is a balanced flue heater and is 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.

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

The control system for these models is a millivolt type. It consists of a gas control valve/ fixed regulator, a standing pilot/thermopile/thermocouple assembly, a piezo ignitor, and an ON/OFF rocker switch. The controls are located in the lower compartment behind the lower grille. Access to this compartment is gained by rotating the grille up. See Figure 1

WARNING: DO NOT CONNECT 240 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. See Figure 17 for appliance wiring diagram.

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 heater 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 heater.

OPERATING CAUTIONS

- **THIS APPLIANCE MAY EXHIBIT A SLIGHT CARBON DEPOSITION.**
- **DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.**
- **DO NOT USE OR STORE FLAMMABLE MATERIALS NEAR THIS APPLIANCE.**
- **DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.**

- **THE DRESS GUARD IS FITTED TO THIS APPLIANCE TO REDUCE THE RISK OF FIRE OR INJURY FROM BURNS AND NO PART OF IT SHOULD BE PERMANENTLY REMOVED. FOR PROTECTION OF YOUNG CHILDREN OR THE INFIRM, A SECONDARY GUARD IS REQUIRED.**
- **THE GLASS DOOR ASSEMBLY MUST BE IN PLACE AND SEALED AND THE FIXED MESH DRESS GUARD MUST BE IN PLACE ON THE FIREPLACE BEFORE THE UNIT CAN BE PLACED INTO SAFE OPERATION.**
- **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.**
- **DO NOT OPERATE THIS APPLIANCE WITH THE GLASS DOOR REMOVED, CRACKED, OR BROKEN. REPLACEMENT OF THE GLASS DOOR SHOULD BE DONE BY A LICENSED OR QUALIFIED PERSON. DO NOT STRIKE OR SLAM THE GLASS DOOR.**
- **THE GLASS DOOR ASSEMBLY SHALL ONLY BE REPLACED AS A COMPLETE UNIT AS SUPPLIED BY THE GAS FIREPLACE MANUFACTURER. NO SUBSTITUTE MATERIALS MAY BE USED.**

2.1 SAFETY AND LIGHTING INFORMATION

Follow Section 2.2 SAFETY INFORMATION and 2.3 LIGHTING INSTRUCTIONS to light the appliance.

By design, the flame pattern will not be identical from unit to unit. Additionally, flame pattern may vary depending on installation type and weather conditions

After the unit has warmed up (i.e. approximately 15 minutes) flame height should be slightly (about 2" (51mm) below the top of the dress guard (Figure 13). If the flame height is higher than this, adjustments must be made to prevent overheating the gasket and glass. Please contact your dealer or a qualified service person to replace the injector or adjust the valve.

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

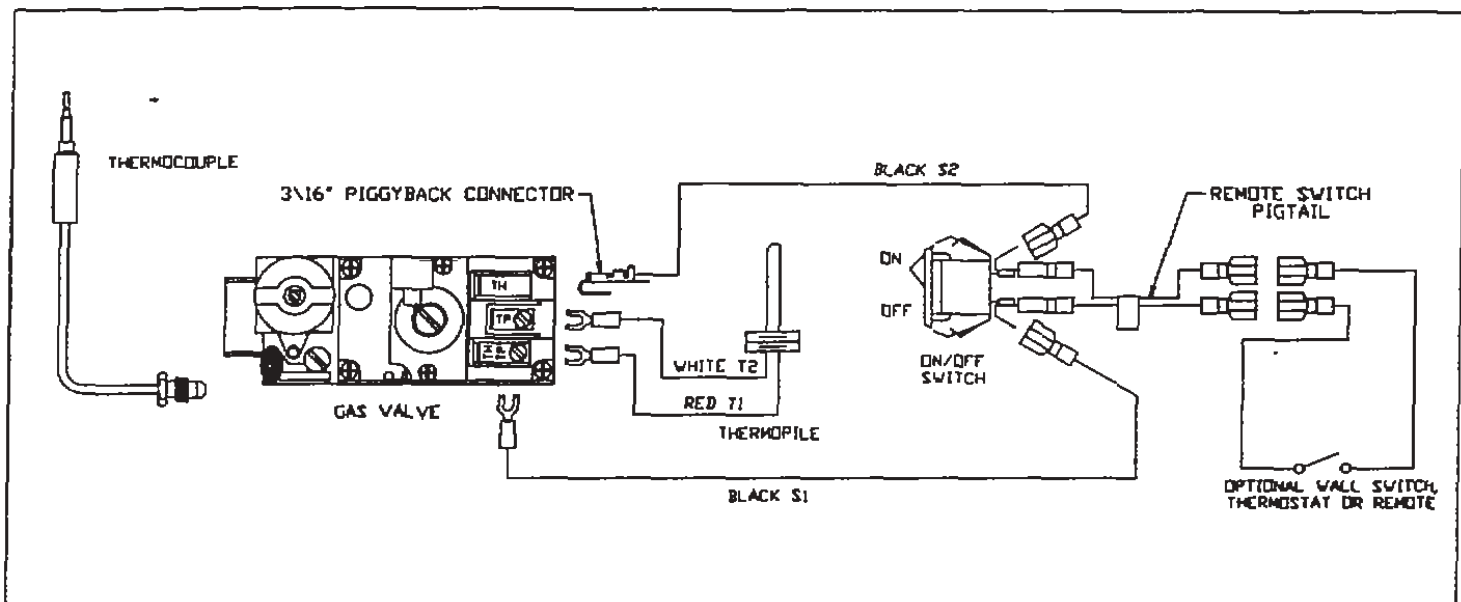


FIGURE 17

2.2 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.

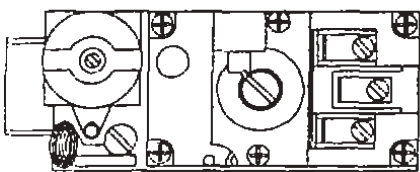
C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it. Call a qualified service technician. Forced or attempted repair may result in a fire or explosion.

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

2.3 LIGHTING INSTRUCTIONS

LIGHTING INSTRUCTIONS

1. "STOP!" Read the safety information on previous page.
2. To access controls, open the bottom grille.
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.

PILOT BURNER

THERMOCOUPLE



THERMOPILE

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. Close the bottom grille.

TO TURN OFF GAS APPLIANCE

1. Open the bottom grille.
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 bottom grille.

2.4 FAN OPERATION

The accessory fan is wired in series with a speed control switch and a temperature sensor switch. Set the speed control to an "ON" position and light the heater. The temperature sensor switch will automatically start the fan when the switch warms up—and stop the fan when it cools down. You can manually stop the fan by turning the speed control switch to "OFF". See Figure 11 for fan wiring diagram.

3.0 SERVICING AND MAINTENANCE

- A. **HEATER SERVICING:** Frequency of heater servicing will depend upon use and type of installation.
- B. **IMPORTANT: TURN OFF GAS BEFORE SERVICING APPLIANCE. IT IS RECOMMENDED THAT A COMPETENT SERVICE TECHNICIAN PERFORM SERVICE CHECK-UPS AT THE BEGINNING OF EACH HEATING SEASON.**
- C. The appliance and flue system should be inspected before initial use and at least annually by a qualified field service person.
- D. Inspect the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.
- E. Keep the control compartment, logs, and burner area surround the logs clean by vacuuming or brushing at least twice a year.

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

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

- F. The glass door should be cleaned using a household glass cleaner. **DO NOT** handle or attempt to clean the glass when it is **HOT**.
- G. 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 materials from the orifice or tubing.

When the appliance is put back in service check burner flame patterns with Figure 18.

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 (9.5mm) at the pilot generator should be engulfed in the pilot flame (Figure 19).

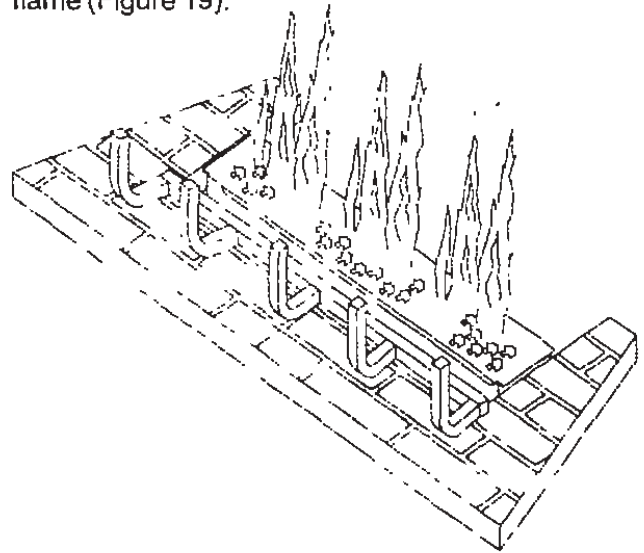


FIGURE 18

STANDING PILOT

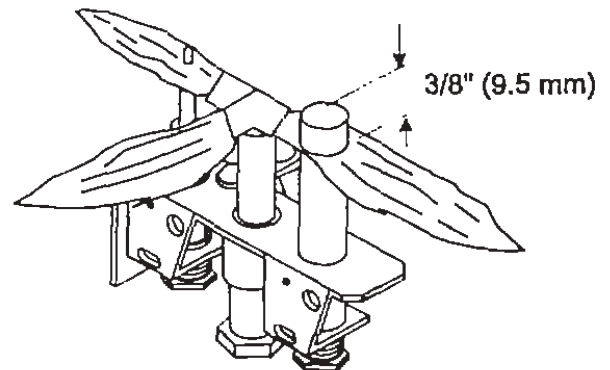


FIGURE 19

3.1 REMOVAL OF COVERS FOR SERVICING

A. Control Compartment Grille

- Rotate the bottom grille up to access the gas controls.

B. Dress Guard and Glass Door

- Lift the front dress guard up and out away from the appliance side surrounds. Replace the dress guard when servicing is complete.
- Rotate the three spring latch eye-bolts, at the top of the glass door, and lift them out of the brackets. Carefully lift the glass up and out away from the appliance.

3.2 REMOVAL OF COMPONENTS FOR SERVICE

1 BURNER

- Remove the front refractory bracket and carefully lift up and remove the log set/log grate/refractory assembly.
- Unscrew the brackets at both ends of the burner and slide the burner away from the burner orifice.

2. PILOT ASSEMBLY/IGNITION SYSTEM

- Remove the log set/log grate/refractory assembly.
- Disconnect the gas supply tube from the underside of the pilot burner.
- Disconnect the electrode wire from the piezo ignitor (found adjacent to the gas control valve).
- Disconnect the attachment nut from the underside of the thermopile. The thermopile can then be separated from the pilot bracket.
- Unscrew the pilot assembly bracket and remove.
NOTE: When removing the pilot assembly, carefully pull the electrode wire up through the grommeted hole in the base pan.

3.3 PARTS REPLACEMENT

1. FAN/SWITCHES

- Disconnect the fan wires from the junction box wires by pulling the male and female connectors apart and slide the fan out the front of the lower controls compartment.
- Disconnect the wires from the fan speed control switch, pull off the knob, and remove the nut holding the speed control to the bracket.
- Disconnect the wires from the fan temperature sensor switch and remove the nut holding the switch bracket onto the side of the firebox.

2. GLASS PANEL

- To replace the glass door, place the bottom edge in the bottom mounting brackets. Push glass against unit and latch the eye-bolts into the brackets. Rotate the eye-bolts to secure.

3.4 ADJUSTMENTS AND REPLACEMENT PARTS

Adjustments and replacement parts for this appliance should only be done by a qualified service person. A wiring diagram for the appliance is shown in **SECTION 2.0 OPERATING INSTRUCTIONS**. A replacement part table is shown in **SECTION 4.0** of this manual.

3.5 TROUBLE SHOOTING - SL-32-AUST

With proper installation and maintenance, your new Gas Heater 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 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	3. Check L.P. (propane) tank. Refill the fuel tank.
II. Pilot will not stay lit after carefully following lighting instructions.	A. Defective thermocouple	1. Check that pilot flame impinges on thermocouple. Clean and/or adjust pilot for maximum flame impingement 2. Ensure that the thermocouple connection at the gas valve is fully inserted and tight (hand tight plus 1/4 turn)

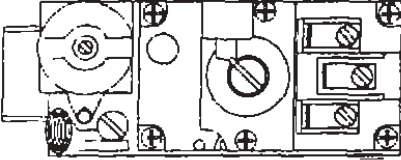
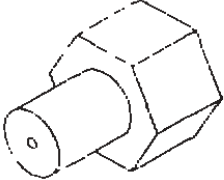
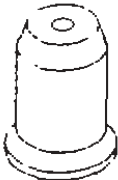

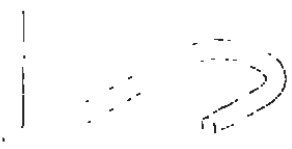
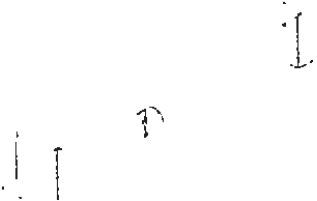
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
<p>III. Pilot burning, no gas burner, valve knob "ON", "on-off" switch "ON".</p>	<p>B. Defective valve.</p>	<p>3. <i>Disconnect the thermocouple from the valve, place one millivolt meter lead wire on the tip of the thermocouple and the other meter lead wire on the thermocouple copper lead. Start the pilot and hold the valve knob in. If the millivolt reading is less than 15 mv, replace the thermocouple.</i></p> <p>1 If thermocouple is producing more than 15 millivolts, replace faulty valve.</p>
	<p>A. "ON-OFF" switch or wires defective.</p>	<p>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.</p>
	<p>B. Thermopile may not be generating sufficient millivoltage.</p>	<p>1 <i>If the pilot flame is not close enough physically to the thermopile, adjust the pilot flame.</i></p> <p>2. Be sure the wire connections from the thermopile at the gas valve terminals are tight and the thermopile is fully inserted into the pilot bracket.</p> <p>3 Check the thermopile with a millivolt meter. Take the reading at TH-TP & TP terminals of the gas valve. <i>The meter should read 325 millivolts minimum, while holding the valve knob depressed in the pilot position, with the pilot lit, and the ON/OFF switch in the OFF position. Replace the faulty thermopile if the reading is below the specified minimum</i></p>

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
IV. Frequent pilot outage problem.	C. Defective valve.	<p>With the pilot in the ON position, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 325 millivolts minimum. Replace the thermopile if the reading is below the minimum.</p> <p>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.</p>
	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.
	A. Pilot flame may be too high or too low, or blowing (high), causing pilot safety to drop out.	1 Clean and adjust pilot flame for maximum flame impingement on the thermocouple. Follow lighting instruction carefully.


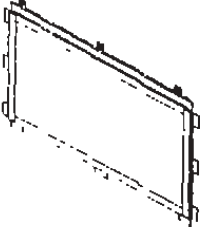
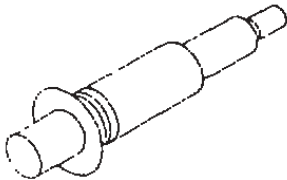
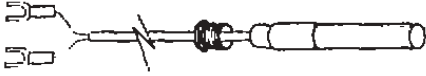
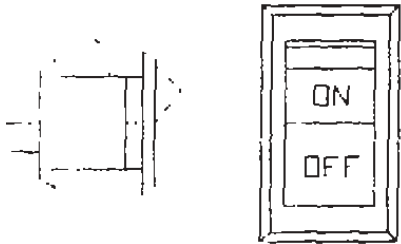

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
V. The pilot and main burner extinguish while in operation.	A. No L.P. in tank.	1. Check L.P. (Propane) tank. Refill fuel tank.
	B. Inner flue pipe leaking exhaust gases back into system.	1. Check for leaks.
	C. Glass too loose and air tight, gasket leaks in corners after usage.	1. Be certain glass assembly is installed correctly and tighten corner.
	D. Horizontal flue improperly pitched.	1. The horizontal flue cap should slope down only enough to prevent any water from entering the unit. The maximum downward slope is 1/4 inch.
	E. Bad thermopile or thermocouple.	1. Replace if necessary.
	F. Improper flue 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 excessively 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.	<p>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</p> <p>2 Check to make sure that no material has been placed at the burner base.</p> <p>3 Be sure glass is tightened properly on unit, particularly on top corners.</p>

4.0 REPLACEMENT PARTS-SL-32-AUST




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
	Robertshaw Valve LP	SRV60-521
	Robertshaw Valve NG	SRV60-520
	Burner Orifice LP	SRV41-801
	Burner Orifice NG	SRV41-800
	Pilot Orifice LP	SRV60-517
	Pilot Orifice NG	SRV60-505
	Pilot Tube	SRV428-301
	Burner Tube	SRV428-300
	Burner NG	SRV447-174A
	Burner LP	SRV447-173A

4.0 REPLACEMENT PARTS-SL-32-AUST (CONT.)

PART	PART DESCRIPTION	PART NUMBER
	Dress Guard	DF-32LP
	Glass Assembly	SRV428-650A
	Piezo Ignitor	SRV60-513
	Thermopile	SRV60-512
	On/Off Rocker Switch	SRV60-525A
	Pilot Assembly LP	SRV60-515A
	Pilot Assembly NG	SRV60-514A

4.0 REPLACEMENT PARTS-SL-32-AUST (CONT.)

PART	PART DESCRIPTION	PART NUMBER
	Simulated Refractory Base	SRV447-737
	Log Set Assembly	SRV447-700A
	Vertical Flue Restrictor	447-042

**LIMITED WARRANTY POLICY
FOR HEAT-N-GLO FIREPLACE PRODUCTS, INC. GAS FIREPLACES**

The limited two year warranty will not become effective until the completed warranty card has been mailed to HEAT-N-GLO FIREPLACE PRODUCTS, INC., Savage, MN 55378.
This card must be mailed within 60 days of the fireplace installation.

Subject to the conditions set forth herein, HEAT-N-GLO FIREPLACE PRODUCTS, INC. extends the following warranty with respect to HEAT-N-GLO FIREPLACE PRODUCTS, INC. Decorative Gas Fireplaces.

If HEAT-N-GLO FIREPLACE PRODUCTS, INC. is 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 FIREPLACE PRODUCTS, INC. will take the following actions:

1. Within the first year from the date of installation, HEAT-N-GLO FIREPLACE PRODUCTS, INC. shall, at its option, replace or repair any such defect in material or workmanship, at HEAT-N-GLO FIREPLACE PRODUCTS, INC. expense. HEAT-N-GLO FIREPLACE PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY OTHER LABOR COSTS, OR EXPENSES, INCLUDING INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.
2. During the second year after the date of installation, HEAT-N-GLO FIREPLACE PRODUCTS, INC. shall supply replacement parts at the current minimum wholesale price, but HEAT-N-GLO FIREPLACE PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY LABOR, TRANSPORTATION, OR OTHER INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
3. During the first six months after installation, HEAT-N-GLO FIREPLACE PRODUCTS, INC. shall, at its option, replace or repair the glass door if operation is faulty (this does not include glass panels broken during shipping, misuse, or careless handling). HEAT-N-GLO FIREPLACE PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY LABOR, TRANSPORTATION OR OTHER INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. IF GLASS DOORS OTHER THAN FACTORY DOORS ARE USED, ALL WARRANTY AND LIABILITY ON THE FIREPLACE IS VOIDED.
4. All electrical, manual, and optional components or accessories found to be defective will be repaired or replaced without charge during the first year after installation

HEAT-N-GLO FIREPLACE PRODUCTS, INC. may discharge its entire warranty liability by refunding the price of the product.

Products made by other manufacturers, sold with the fireplace or 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 be void if the appliance is not installed by a qualified installer and according to the installation instructions. The limited warranty also is void if the fireplace is not operated, at all times, according to the operating instructions furnished.

EXCEPT TO THE EXTENT PROVIDED BY LAW, NO IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND NO IMPLIED WARRANTIES SHALL APPLY TO THE FIREPLACE AFTER THE ABOVE LIMITED WARRANTY HAS EXPIRED

In states that do not allow limitations on how long 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 FIREPLACE PRODUCTS, INC. reserves the right to make changes at anytime, without notice, in design, material, specifications, and prices and the right to discontinue styles and products.