

INSTALLATION INSTRUCTIONS

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

WARNING: THE DVT8 SERIES FIREPLACES ARE VENTED DECORATIVE GAS APPLIANCES. DO NOT BURN WOOD OR OTHER MATERIAL IN THESE APPLIANCES.

WARNING: AT THE BEGINNING OF EACH HEATING SEASON HAVE THE GLASS DOOR GASKET INSPECTED FOR PROPER SEALING BY A QUALIFIED SERVICE TECHNICIAN.

(COPY)

Formerly Identified
As Models

_DVC-43TMN _DVR-43TMN
_DVC-43TMP _DVR-43TMP
_DVC-43TEN _DVR-43TEN
_DVC-43TEP _DVR-43TEP

**Models Covered In This Document
Are Part Of Superior's
DVT-8000 SERIES**

Installation And Operating Instructions

*For Direct Vent
Decorative Gas
Appliances*

Millivolt Models
_DVT8-CMNS
_DVT8-CMPS
_DVT8-RMNS
_DVT8-RMPS

Electronic Models
_DVT8-CENS
_DVT8-CEPS
_DVT8-RENS
_DVT8-REPS

*And Vent System
Accessories*

_DST5-12/18/36
_DST5-90ELB
_DVSP5-90ELB
_DST5-45ELB
_DST5-HTK
_DV-HTK-1
_DST5-VTK
_DST5-EXT
_DST5-FSV
_DST5-F
_DSF5-24

FOR YOUR SAFETY

What to do if you smell gas:

- DO NOT light any appliance.
- DO NOT touch any electrical switches.
- DO NOT use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone.
- If your gas supplier cannot be reached, call the fire department.

FOR YOUR SAFETY

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

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

PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE.



IAS Report No. L 2970013

U.S. Patent 5,553,603

Note: Underscore is used here in place of a letter character which varies by product line. Letter shown in the first position of the Model Number is designated as follows: S = Superior, F = Freeplus, H = Heatshield

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

INTRODUCTION

The DVT-8 Series are sealed combustion, air circulating gas appliances designed for residential applications. These appliances must be installed with the DST5 and/or DSF5 vent systems routed to the outside atmosphere.

The DVT8-CM and DVT8-RM appliances are designed to operate on natural or propane gas. A millivolt gas control valve with piezo ignition system provides safe, efficient operation. External electrical power is required to operate the optional blower if installed in these units.

The DVT8-CE and DVT8-RE appliances are designed to operate on natural or propane gas. An electronic direct spark ignition system provides safe, efficient operation. External electrical power is required to operate these units.

These appliances comply with National Safety Standards and are tested and listed by IAS (Report No. L 2970013) to ANSI Z21.50b - 1990 (in Canada, CAN/CGA-2.22-M89, IR #41-1991, IR #43-1992, IR #55 and CAN/CGA-2.17-M91) as vented decorative gas appliances.

Installation must conform to local codes. In the absence of local codes, installation must comply with the current National Fuel Gas Code, ANSI Z223.1. (In Canada, the current CAN-1 B149 installation code.) Electrical wiring must comply with the National Electrical Code ANSI/NFPA 70 - (latest edition). (In Canada, the current CSA C22-1 Canadian Electrical Code.)

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

TYPICAL INSTALLATION

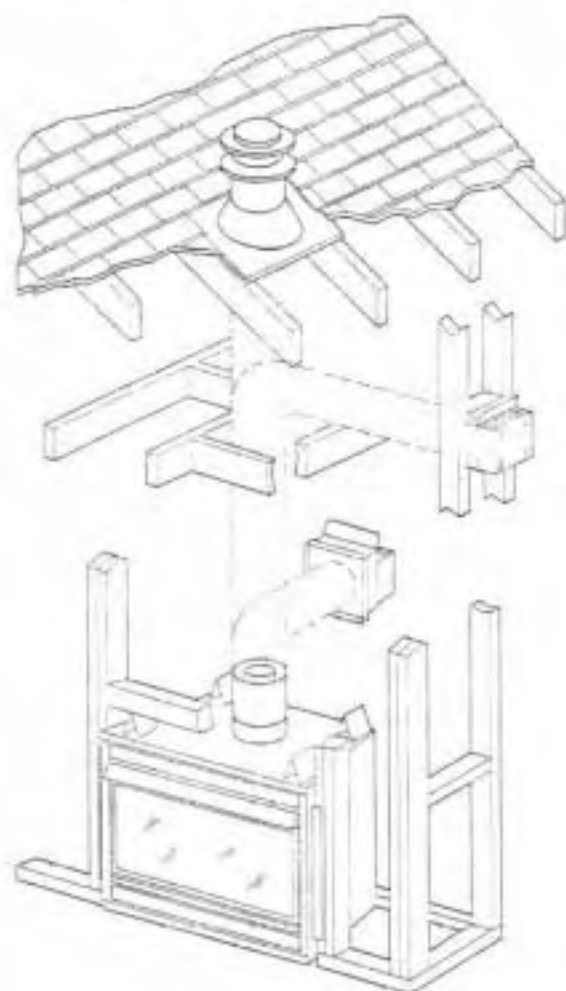


Figure 1

GENERAL INFORMATION

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

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

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

Input of the appliance is 38,000 BTU/HR for natural gas models and 35,000 BTU/HR for propane gas models.

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

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

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

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

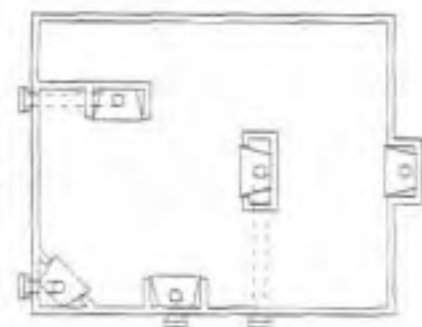
The appliance must be isolated from the gas supply piping system (by closing its individual manual shut-off valve) during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of 1/2 psig (3.5 kPa).

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

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

LOCATION



Typical Locations

Figure 2

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

The minimum height from the base of the _DVT8 to the underside of combustible materials used to construct a utility shelf is 66 1/2" (1686 mm) (Figure 3). This appliance requires the installation of at least one _DST5-12 vent component at the collar.

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

Both millivolt and electronic versions of the _DVT8-C and _DVT8-R are listed for bedroom use.

CLEARANCES

Minimum clearance to combustibles for the appliance is as follows: sides and back - 0", floor - 0", adjacent wall - 0", ceiling - 37 1/2" (953 mm).

To vent the unit out the back wall, (horizontal termination) with one (1) elbow and 1 1/4" (38 mm) of horizontal vent, and the required DST5-12 at the collar, observe these clearance requirements: sides and back = 0", top of appliance = 49 1/4" (1251 mm) (Figure 3).

Minimum clearance to combustibles for the vent system is: horizontal run = top @ 3" (76 mm), sides @ 1" (25 mm), bottom @ 1" (25 mm), vertical run = 1" (25 mm).

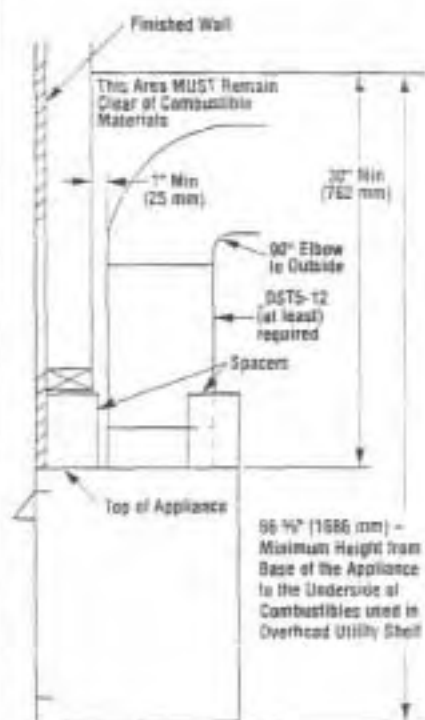
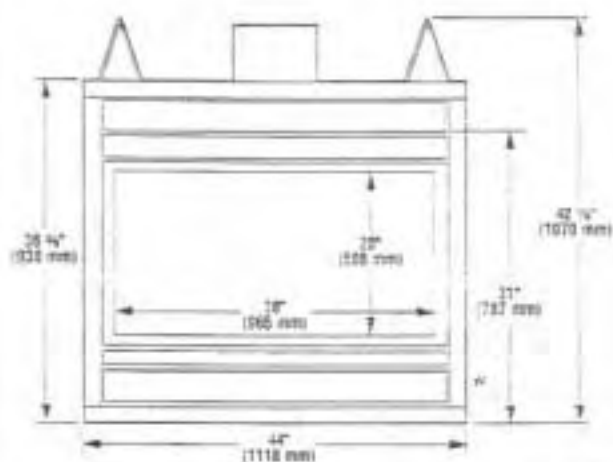


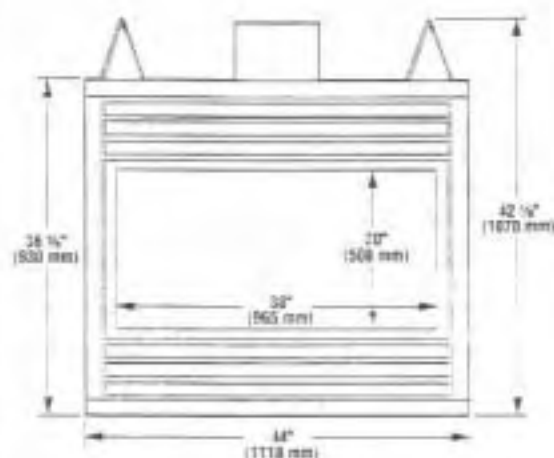
Figure 3

APPLIANCE SPECIFICATIONS

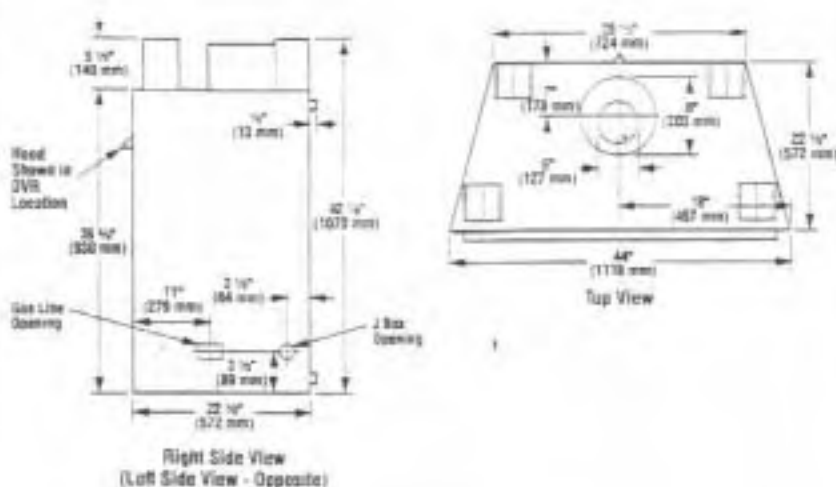
***Note:** The external collar and internal collar of this unit are not concentric. This vent offset is not to be maintained in the appliance venting. Install the standard DSTS vent components.



Front View
(DVT8-R)



Front View
(DVT8-C)



Note: J box can be located in either the right rear or left rear corners of the appliance by relocating the moveable J box plate.

FRAMING SPECIFICATIONS

Note: Framing dimensions are calculated from a nailing flange depth of 1/2 inch.

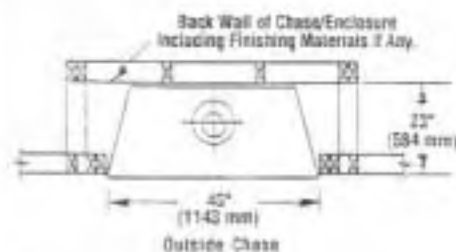


Figure 5

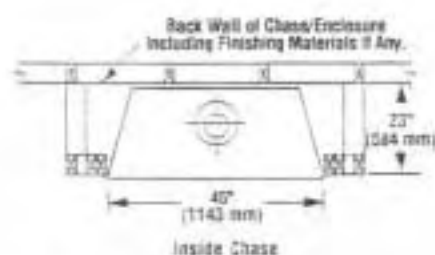


Figure 6

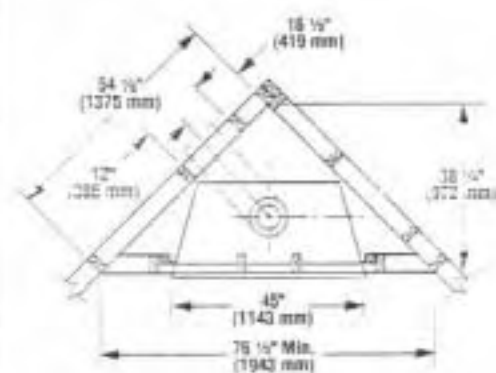


Figure 7

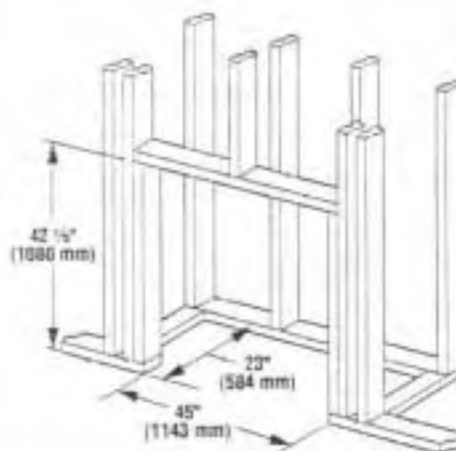
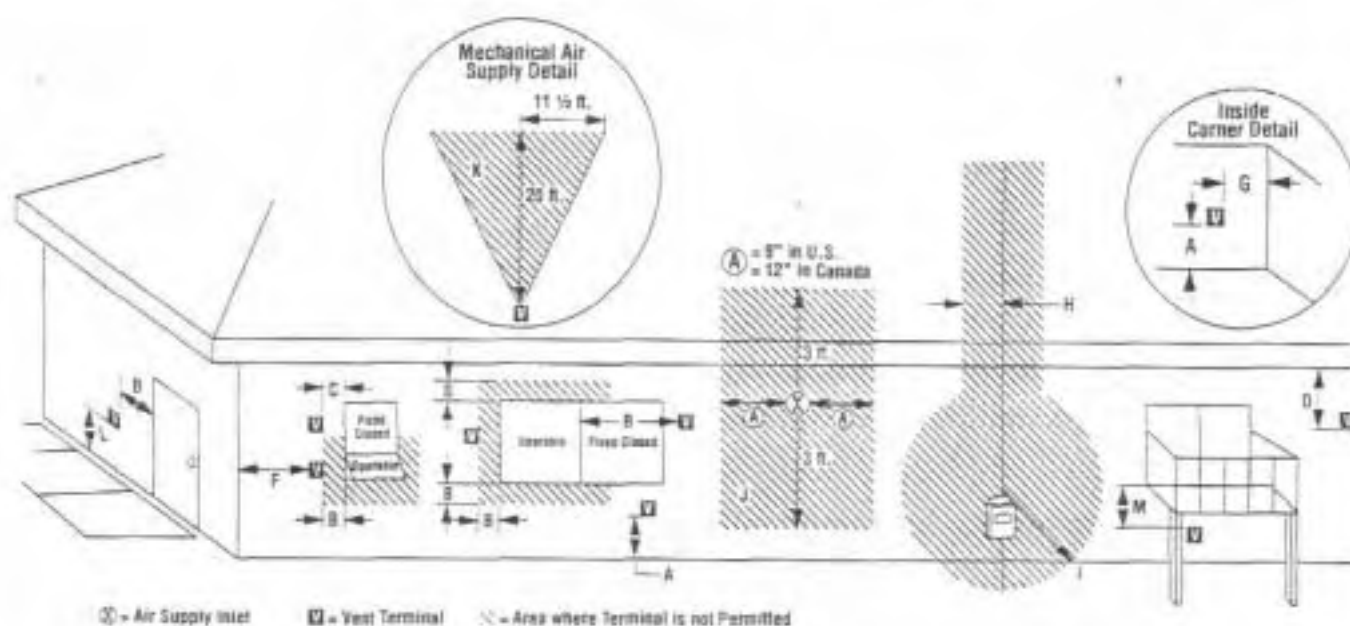


Figure 8

EXTERIOR VENT CLEARANCE REQUIREMENTS



A = clearance above grade, veranda, porch, deck, or balcony
12 inches (30 cm) minimum

B = clearance to window or door that may be opened
U.S. - 9 inches (22.5 cm) minimum
Canada - 12 inches (30 cm) minimum

C = clearance to permanently closed window - recommended to prevent condensation on window
U.S. - 9 inches (22.5 cm) minimum
Canada - 12 inches (30 cm) minimum

D = vertical clearance to soffit located above the terminal
ventilated soffit 18 inches (46 cm) minimum
unventilated soffit 12 inches (30 cm) minimum

F = clearance to outside corner
9 inches (23 cm) minimum

G = clearance to inside corner
6 inches (15.2 cm) minimum

H = not be installed above a gas meter/regulator assembly or within 3 feet (90 cm) horizontally from the center line of the regulator.

I = clearance to gas service regulator vent outlet
U.S. - 3 feet (90 cm) minimum
Canada - 6 feet (1.8 m) minimum

J = non-mechanical inlet (includes combustion air intake for a direct vent appliance or any other inlet not providing ventilation air for living spaces):

- vent termination (V) may not be located in an area bounded by lines drawn 9 inches to the left and right of the non-mechanical inlet (X) cap sides (12 inches in Canada) and extending 3 feet above and below the termination

Note: Clearances are measured from the nearest adjacent vent point where exhaust gases exit the flue (vent side to vent side).

K = mechanical air supply (outside air inlet used to provide ventilation air to living spaces within the structure):

- mechanical air supply (air supply inlet (X)) may not be installed within an area bounded by a line drawn 30 degrees to the left or right of a centerline extending upwards from this appliance's horizontal vent terminal (V) to a height of 20 feet

L = clearance above paved sidewalk or paved driveway located on public property
7 feet (2.1 m) minimum

Note: A vent shall not terminate directly above a sidewalk or paved driveway which is located between two (2) single family dwellings and serves both dwellings.

M = clearance under veranda, porch, deck, or balcony where fully open on a minimum of two (2) sides beneath the floor
12 inches (30 cm) minimum

Note: Check local codes or regulations for variations.

Figure 9

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

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

For SI units: 1 foot = 0.305 m

Table 1

Vertical Venting

Gas Vent Rule – Gas vent caps that are located 8' or more from a portion of a building which extends at an angle greater than 45° upward from the horizontal may terminate in accordance with Table 1 (Figure 10), provided that in no case shall any discharge opening on the cap be less than 2' (610 mm) horizontally from the roof surface.

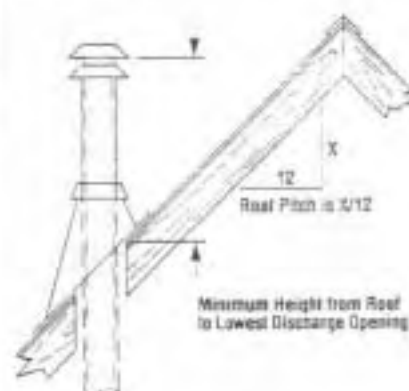


Figure 10

Horizontal Venting

The vent termination must have a minimum of 3" (76 mm) clearance to any overhead combustible projection of 2 1/2" (64 mm) or less. Maintain 12" (305 mm) clearance from projections exceeding the 2 1/2" (64 mm) (Figure 11). For additional vent locations restrictions refer to Figure 9.

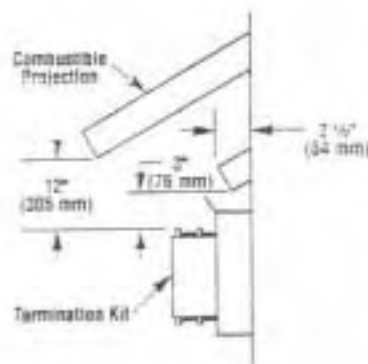


Figure 11

ASSEMBLY STEPS

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

1. Construct the appliance framing.
2. Route gas supply line to appliance location.
3. Affix nailing flanges to the appliance. On all models install the hood.
4. Position the appliance. Install 1 foot of 5" / 8" Vent Section as supplied with the unit.
5. Install the vent system and exterior termination.
6. **Millivolt Appliances** – Install the operating control switch and bring in electrical service line for forced air circulating blower (optional equipment).
7. **Electronic Appliances** – Field wire and install operating control switch.
8. Mount forced air kit (optional equipment).
9. Make connection to gas supply.
10. Install the logs and ember coals.
11. Checkout appliance operation.
12. Install glass door frame assembly.
13. Adjust burner and air restrictors to ensure proper flame appearance.

INSTALLATION

The appliance is shipped with all gas controls and components installed and pre-wired. Remove the shipping carton, exposing the front glass door frame. Remove wood slats and remove and discard the wood slat mount brackets. Loosen and remove the three (3) $\frac{1}{4}$ "-20 x 1" Phillips pan head screws at the three (3) tabs located along the door frame top edge. Tilt the glass door frame assembly outward and disengage the three (3) tabs along the bottom of the door from the three (3) brackets at the bottom of the firebox opening. Remove the door and set the panel aside protecting it from inadvertent damage. Retain the three (3) screws for use on reassembly. Remove the logs, bubble wrapped and secured to the inside of the appliance door, and also set aside.

Step 1. Frame appliance enclosure as illustrated in Figures 5 through 8 on page 4.

Note: The framed depth, 22 $\frac{1}{8}$ " (572 mm) from a framed wall, must always be measured from a finished surface. If a wall covering such as drywall is to be attached to the rear wall, then the 22 $\frac{1}{8}$ " (572 mm) must be measured from the drywall surface. It is important that this dimension be exact.

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

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

Step 2. Route a $\frac{1}{2}$ " (13 mm) gas line along the left or right side framing Figure 12.

All appliances have a 3' long $\frac{3}{4}$ " NPT nipple installed at the valve. To quickly and easily complete the gas line routing, use the gas flex line kit, Model _GFLV.

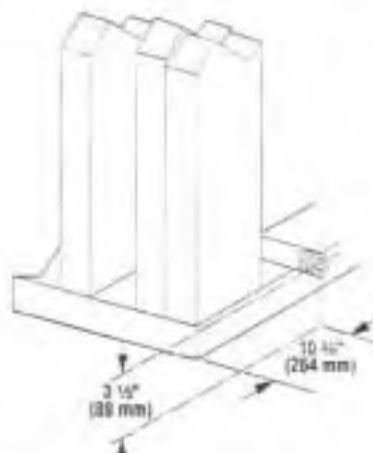


Figure 12

Step 3. Remove the nailing flanges from the lower control compartment and install in place with three (3) screws each. Align with the three holes on each side of the appliance (refer to Figure 13).

Install the hood on all _DVT8-R units. Position the hood in the open area just above the appliance door. Locate the flange, found along the top edge of the hood, behind the upper radiant panel. Install the two (2) screws into the holes at the ends of the hood. Secure the hood to the appliance frame by tightening the screws.

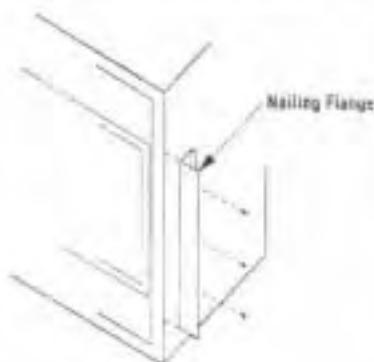


Figure 13

Step 4. Position appliance into prepared framing, secure with 6d nails at the nailing flange along each side.

Step 5. Install the Vent System—These appliances must be vented directly to the outside through their own double wall pipe assembly, 5" (127 mm) and 8" (203 mm) diameters. The system may not service multiple appliances, and must never be connected to a flue serving a solid fuel burning appliance.

These appliances are designed, tested and listed for operation with, and only with, _DST5 and _DSF5 vent components. DO NOT use other manufacturers' components.

Listed Vent Components:

_DST5-HTK	— Horizontal termination kit
_DV-HTK-1	— Horizontal termination kit
_DST5-VTK	— Vertical termination kit
_DST5-F	— Flashing and collar
_DST5-FSV	— Firestop
_DST5-12/18/36	— Vent sections
_DST5-90ELB	— 90° Elbow
_DST5-45ELB	— 45° Elbow
_DST5-EXT	— Adjustable extension
_DSF5-24	— Flexible vent section
_DVSP5-90ELB	— Starter Elbow

With the appliance secured in framing, determine vent routing and identify the exterior termination location. The following sections describe vertical (roof) and horizontal (exterior wall) vent applications. Refer to the section relating to your installation.

Adjustable Extension

The _DST5-EXT vent extension is adjustable from 6" (152 mm) to 9 $\frac{3}{4}$ " (248 mm). Use this component when there is a short distance to complete the vent system in lieu of cutting the uncrimped end of a vent section.

Vertical Termination Systems (Roof)

The Figures 14 through 16 and the Vertical Vent Table on page 8 illustrate the various vertical venting configurations that are possible for use with these top vent appliances. The maximum vertical height for the _DVT8 system is 30' (7.6 m) above the top of the appliance. Figures 15 and 16 along with Vertical Vent Table identify: (A) straight vertical system and (B) vertical system that employs two (2) 90° elbows. The Vertical Vent Table summarizes each system's minimum and maximum vertical and horizontal values that can be used to design and install the vent components in a variety of applications.

Both these vertical vent systems terminate through the roof. The minimum vent height above the roof and/or adjacent walls is specified in ANSI Z223.1 (latest edition) (In Canada, the current CAN-1 B149 installation code) by major building codes. Always consult your local codes for specific requirements. A general guide to follow is the Gas Vent Rule (refer to Table 1).

The _DSF5 flexible vent section can not be used in any application as part of a vertically terminating vent system.

Vertical (Straight) Installation

Determine the number of straight sections required. 10 $\frac{1}{4}$ " (260 mm), 16 $\frac{1}{4}$ " (413 mm) and 34 $\frac{1}{4}$ " (870 mm) net section lengths are available. Plan the vent lengths so that a joint does not occur at ceiling or roof joists. Refer to the Vent Section Length Chart.

Note: The uncrimped end of the vent may be trimmed when necessary or the adjustable extension, Model _DST5-EXT, may be used.

VENT SECTION LENGTH CHART

Height of Vent		Number of _DST5 Vent Sections			Height of Vent	
IN	FT	12	18	36	MM	M
10"	0' 10"	1	0	0	254	0.25
16"	1' 4"	0	1	0	406	0.41
20 1/4"	1' 8 1/4"	2	0	0	527	0.53
26 1/4"	2' 2 1/4"	1	1	0	678	0.68
34"	2' 10 1/4"	0	0	1	864	0.86
37 1/2"	3' 1 1/2"	2	1	0	953	0.95
44 1/4"	3' 8 1/4"	1	0	1	1127	1.14
50 1/4"	4' 2 1/4"	0	1	1	1289	1.29
55 1/2"	4' 7 1/2"	2	0	1	1410	1.41
61 1/2"	5' 1 1/2"	1	1	1	1562	1.56
68 1/4"	5' 8 1/4"	0	0	2	1748	1.75
72 1/4"	6' 0 1/4"	2	1	1	1825	1.84
79 1/4"	6' 7 1/4"	1	0	2	2019	2.02
85 1/4"	7' 1 1/4"	0	1	2	2172	2.17
90 1/4"	7' 6 1/4"	2	0	2	2292	2.29
96 1/4"	8' 0 1/4"	1	1	2	2445	2.45
103 1/2"	8' 6 1/2"	0	0	3	2629	2.63
107"	8' 11"	2	1	2	2718	2.72
114 1/2"	9' 6 1/2"	1	0	3	2902	2.90
120 1/4"	10' 0 1/4"	0	1	3	3054	3.05
125"	10' 5"	2	0	3	3175	3.18
131"	10' 11"	1	1	3	3327	3.33
138 1/4"	11' 5 1/4"	0	0	4	3512	3.51
141 1/4"	11' 8 1/4"	2	1	3	3600	3.60
148"	12' 3"	1	0	4	3795	3.79
155"	12' 11"	0	1	4	3937	3.94
159 1/4"	13' 3 1/4"	2	0	4	4058	4.06
165 1/4"	13' 8 1/4"	1	1	4	4210	4.21
173"	14' 5"	0	0	5	4394	4.39
176 1/4"	14' 8 1/4"	2	1	4	4483	4.48
183 1/4"	15' 3 1/4"	1	0	5	4667	4.67
189 1/4"	15' 8 1/4"	0	1	5	4820	4.82
194 1/4"	16' 2 1/4"	2	0	5	4940	4.94
200 1/4"	16' 8 1/4"	1	1	5	5093	5.09
207 1/4"	17' 3 1/4"	0	0	6	5277	5.28
211 1/4"	17' 7 1/4"	2	1	5	5366	5.37
218 1/4"	18' 2 1/4"	1	0	6	5550	5.55
224 1/4"	18' 8 1/4"	0	1	6	5702	5.70
229 1/4"	19' 1 1/4"	2	0	6	5823	5.82
235 1/4"	19' 7 1/4"	1	1	6	5975	5.98
242 1/4"	20' 2 1/4"	0	0	7	6160	6.16
246"	20' 6"	2	1	6	6248	6.25
253 1/4"	21' 1 1/4"	1	0	7	6433	6.43
259 1/4"	21' 7 1/4"	0	1	7	6585	6.58
264"	22' 0"	2	0	7	6706	6.71
270"	22' 6"	1	1	7	6858	6.86
277 1/4"	23' 1 1/4"	0	0	8	7042	7.04
280 1/4"	23' 4 1/4"	2	1	7	7131	7.13
288"	24' 0"	1	0	8	7315	7.32
294"	24' 6"	0	1	8	7468	7.47
298 1/4"	24' 10 1/4"	2	0	8	7588	7.59
304 1/4"	25' 4 1/4"	1	1	8	7741	7.74
312"	25' 10"	0	0	9	7925	7.93
315 1/4"	25' 13 1/4"	2	1	8	8014	8.01
322 1/4"	26' 10 1/4"	1	0	9	8198	8.20
328 1/4"	27' 4 1/4"	0	1	9	8350	8.35
333 1/4"	27' 9 1/4"	2	0	9	8471	8.47
339 1/4"	28' 3 1/4"	1	1	9	8623	8.62
345 1/4"	28' 9 1/4"	0	0	10	8807	8.81
350 1/4"	29' 2 1/4"	2	1	9	8896	8.90
357 1/4"	29' 8 1/4"	1	0	10	9081	9.08
363 1/4"	30' 3 1/4"	0	1	10	9233	9.23
368 1/4"	30' 8 1/4"	2	0	10	9354	9.35

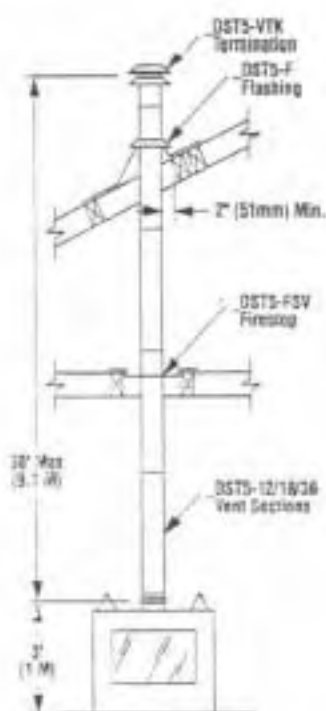


Figure 14

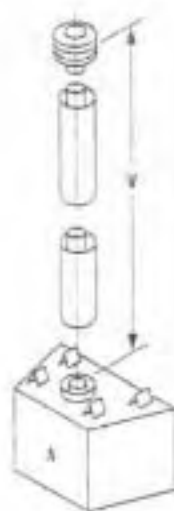


Figure 15 (Straight)

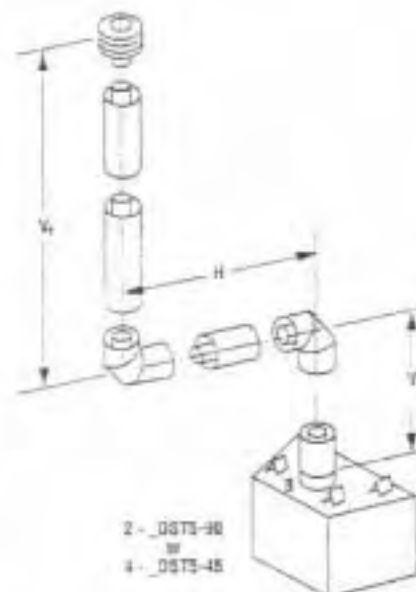


Figure 16 (90° Offsets Shown)

Note: This appliance must be lifted with at least one _DST5-12 vent component at the collar before continuing with a vent run. The vent table on this page presents data which includes this minimum requirement.

VERTICAL VENT TABLE

(All values are in feet)

1 - 90° Elbow or 2 - 45° Elbows = 1'

A	B	B
V	V ₁	H
Max.		Max.
30		2
	2	4
	3	6
	4	8
	5	10
V = V ₁ + V ₂ = 30 Feet Max.		
H = 10 Feet Max.		

Note: All vent dimensions are measured from the appliance surface where the vent connects to the point where exhaust gases exit the termination.

Vertical (Offset) Installation

Analyze the vent routing and determine the quantities of vent sections and number of elbows required. Refer to Vertical Vent Table on page 8 to select the type of vertical installation desired. Vent sections are available in net lengths of 10 3/4" (273 mm), 16 3/4" (425 mm) and 34 3/4" (883 mm). Refer to the Vent Section Length Chart on page 8 to determine available length combinations. Elbows are available as 90° and 45° configurations. Refer to Figure 28 for the _DST5 elbow dimensional specifications.

Maintain a minimum 1" (25 mm) clearance to combustible materials for all vertical elements. Clearance for all horizontal elements are: 3" (76 mm) on top, 1" (25 mm) on sides and 1" (25 mm) on the bottom.

Note: The uncrimped end of the vent may be trimmed when necessary or the adjustable extension, Model _DST5-EXT, may be used.

A. Use a plumb line from the ceiling above the appliance to locate center of the vertical run. Cut and/or frame a 10" x 10" inside (254 mm x 254 mm) minimum opening about this center mark (Figure 17).

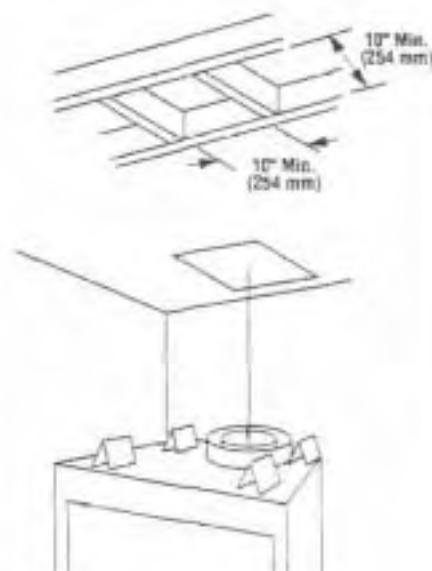


Figure 17

WARNING: A 3/8" (10 mm) BEAD OF _MILL-PAC BLACK (700°F) HIGH TEMPERATURE SEALANT MUST BE APPLIED TO THE INNER APPLIANCE COLLAR BEFORE THE FIRST VENT COMPONENT IS ATTACHED (FIGURE 18) AND TO ALL SUBSEQUENT INNER VENT CONNECTIONS. FAILURE TO SEAL ALL THE INNER JOINTS WITH THIS HIGH TEMPERATURE SEALANT MAY CAUSE THE APPLIANCE TO OPERATE IMPROPERLY.

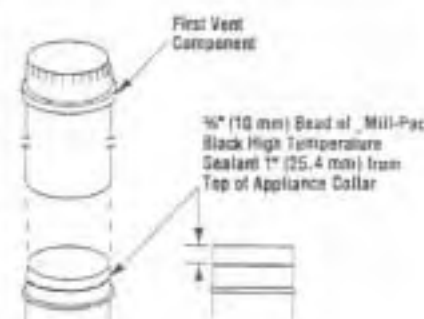


Figure 18

B. The vent sections are crimped at one end to provide a slip fit for elbows and additional vent sections. To begin a vent run, apply _Mill-Pac Black (700°F) high temperature sealant to the inner joint, being sure of a 100% seal (Figure 19). Slide the 5" (127 mm) inner section onto the center appliance collar. (Crimped end always upward). Locate and transfer drill a 1/4" (3 mm) diameter hole through the collar at the two (2) punched holes (180° apart). Use two (2) No. 8 x 1/2" sheet metal screws to secure the section.

IMPORTANT: APPLY _MILL-PAC BLACK (700°F) HIGH TEMPERATURE SEALANT AT INNER JOINT CONNECTIONS.

The elbow may not be mounted directly to the top of the appliance. The _DST8 appliance must be fitted with at least 12" of vertical vent before beginning a horizontal vent run.

C. Next, slip the outer section over the inner and onto outer appliance collar, bottoming out at the bead. Make sure the crimped end of both inner and outer vent sections are the same height. Secure using two (2) sheet metal screws (Figure 19).

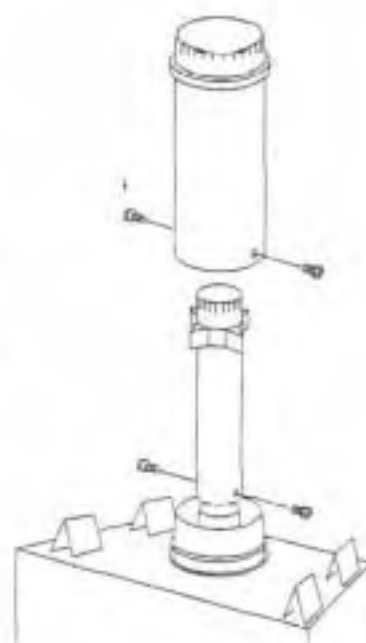


Figure 19

D. To add vent sections, start with the 5" (127 mm) inner section and slide it over the previously installed inner section; an overlap of 1 1/4" (32 mm) is required. The section will not bottom out on the bead. **Remember to seal inner sections using _Mill-Pac Black (700°F) high temperature sealant on the mating surfaces before fitting together.** Secure with two (2) No. 8 x 1/2" sheet metal screws. Slide the 8" (203 mm) outer section over the previously installed outer section; a 1 1/4" (32 mm) overlap is required. This section will not bottom out on the bead. Make sure the crimped end of both inner and outer vent sections are the same height and that the centering spacer is properly seated. Secure with two (2) No. 8 x 1/2" sheet metal screws.

Note: The uncrimped end of the vent may be trimmed when necessary or the adjustable extension, _DST5-EXT, may be used.

E. At transition from or to a horizontal/inclined run, the _DST5-90ELB/_DST5-45ELB/_DVSP5-90EL5 elbows install in the same manner as the straight vent sections. Apply _Mill-Pac Black (700°F) high temperature sealant to the inner joints. Slip the inner elbow over the straight inner vent section. Secure with two (2) screws. Slide the outer elbow over the inner elbow, slip down over the outer vent section. Secure with two (2) screws.

F. Continue with the installation of the straight vent sections in horizontal/inclined run as described in Step D. Install support straps every 6' (2 m) along horizontal/inclined vent runs using conventional plumber's tape. It is **very important** that the horizontal/inclined run be maintained in a straight (no dips) and slightly elevated plane (1/4" rise/12" run). Use a carpenter's level to measure from a constant surface and adjust the support straps as necessary. It is important to maintain the required clearances to combustibles: 1" (25 mm) at all sides for all vertical runs; and 3" (76 mm) at the top, 1" (25 mm) at sides, and 1" (25 mm) at the bottom for all horizontal/inclined runs.

G. Use a _DST5-FSV firestop spacer at ceiling joists. If there is living space above the ceiling level, the firestop spacer must be installed on the bottom side of the ceiling. If attic space is above the ceiling, the firestop spacer must be installed on the top side of the joist. Route the vent sections through the framed opening and secure the firestop spacer with 8d nails at each corner. Remember to maintain 1" (25 mm) clearance to combustibles, framing members, and attic or ceiling insulation when running vertical chimney sections.

H. Identify location for vent at the roof. Cut and/or frame opening per Roof Framing Chart and Figure 20.

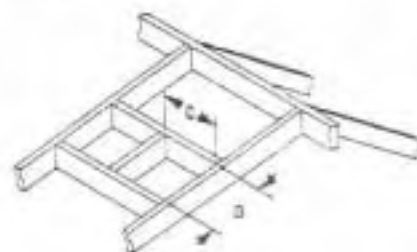


Figure 20

Framing Dimensions for Roof

Pitch	C	D
0/12	10" (254 mm)	10" (254 mm)
6/12	10" (254 mm)	12" (305 mm)
12/12	10" (254 mm)	17 1/4" (305 mm)

I. Extend the vent sections through the roof structure. Install the roof flashing over the vent section and position such that the vent column rises vertically (use carpenter's level) (Figure 21). Nail along perimeter to secure flashing or adjust roofing to overlap the flashing edges at top and sides only and trim where necessary. Seal the top and both sides of the flashing with waterproof caulking.

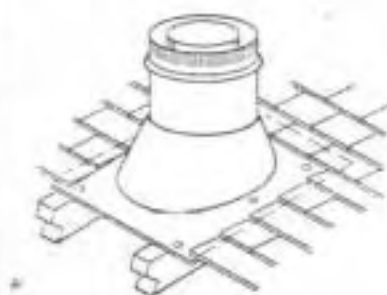


Figure 21

J. Install the storm collar, supplied with the flashing, over the vent/flashing joint. Wrap the storm collar around the vent noting which locking groove closely aligns with the tab (Figure 22). Pencil mark excess material, unwrap and trim excess with shears. Reposition collar, insert tab through both slots, pull tab so that collar is tight around vent. Slide collar down until it meets top of the flashing. Bend tab back over slot. Apply noncombustible caulking or mastic around circumference of the joint and the tab slot area to provide a water tight seal.

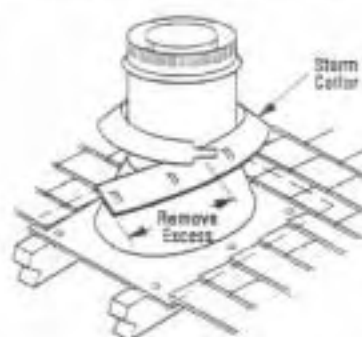


Figure 22

K. The final step involves installation of the _DST5-VTK termination kit. Extend the vent sections to height defined by the applicable gas appliance code, or as indicated by the Ten Foot Rule.

Slide the inner termination section down over the last inner vent section. Ensure overlap is a minimum of 1 1/4" (32 mm) (Figure 23). Apply _Mill-Pac Black (700°F) high temperature sealant.



Figure 23

Slide the outer termination down over the last outer vent section. The two (2) holes in the outer sleeve are used to secure the termination. Transfer drill 1/4" (3 mm) diameter hole through outer wall of top vent section. Secure with two (2) No. 8 x 1 1/2" sheet metal screws.

If the vent system extends more than 5' (1.5 m) above the roof flashing, stabilizers may be necessary. Additional screws may be used at section joints for added stability. Guy wires may be attached to the joint for additional support on multiple joint configurations.

If the vent system extends more than 10' vertically, the _DST5-VTK must be fitted with air restrictors that will reduce the volume of combustion air entering the appliance. Refer to Step 13 for the air restrictor installation and adjustment details.

HORIZONTAL VENT TABLE

(All values are in feet)

1 - 90° Elbow or 2 - 45° Elbows = 1'

C/D	C	D
V	H Max.	H ₁ + H ₂ Max.
1	1 1/2	-
2	2	-
3	2 1/2	-
4	3	-
5	3 1/2	-
6	4	-
7	4 1/2	3 1/2
V = 30 Feet Max.		
H ₁ + H ₂ = 10 1/2 Feet Max.		

Note: This appliance must be fitted with at least one _DST5-12 vent component at the collar before continuing with a vent run. The vent table on this page presents data which includes this minimum requirement.

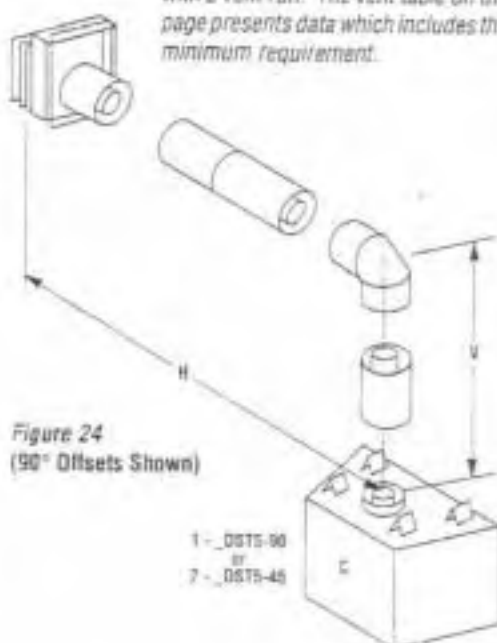


Figure 24
(90° Offsets Shown)

1 - _DST5-90
or
2 - _DST5-45

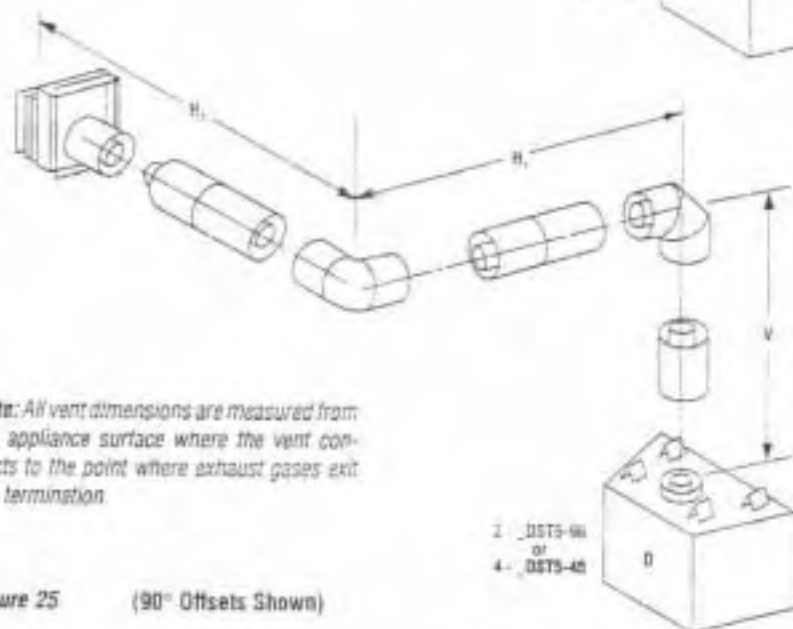


Figure 25
(90° Offsets Shown)

Note: All vent dimensions are measured from the appliance surface where the vent connects to the point where exhaust gases exit the termination.

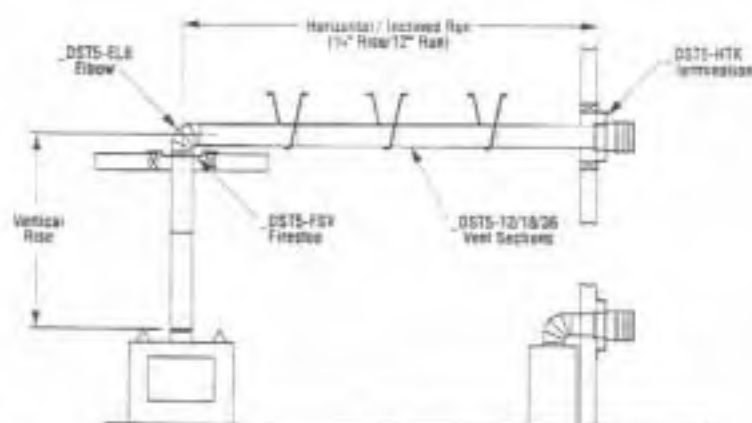


Figure 26

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

Horizontal (Outside Wall) Termination System

Figures 24, 25 and 26 and the Horizontal Vent Table illustrate the various horizontal venting configurations that are possible for use with these top vent appliances. The maximum horizontal distance for the _DVT8-C and _DVT8-R systems is 11 1/2' (3.5 m). Figures 24 and 25 along with the Horizontal Vent Table identify: (C) horizontal system employing one (1) 90° elbow and (D) horizontal system employing two (2) 90° elbows. The Horizontal Vent Table summarizes each system's minimum and maximum vertical and horizontal values that can be used to design and install the vent components in a variety of applications. Both of these horizontal vent systems terminate through an outside wall. Building Codes limit or prohibit terminating in specific areas. Refer to Figure 9 for location guidelines.

The _DSF5-24 flexible vent section may be used to attach the _DST5-HTK and _DV-HTK-1 terminations directly to the end of a vent run built up of _DST5 components. Never use the _DSF5-24 unless one end of this component is to be attached directly to the _DST5-HTK or _DV-HTK-1. Never use the _DSF5-24 as a part of a vertical venting system. The _DSF5-24 is designed to be used in place of _DST5 vent components. Flex vent ends are secured with provided hose clamps instead of the screws used with the _DST5 sections. The inner tube of the _DSF5-24 must be sealed at both ends with _Mill-Pac Black (700°F) high temperature sealant. The _DSF5-24 must not be bent to an inside diameter smaller than 5" (127 mm) (Figure 27). Do not use the flexible vent component directly attached to this appliance's collar.

Note: The _DSF5-24 vent component is rigid and self supporting; it does not require bracing. Do not allow any materials to be in contact with or rest upon the _DSF5-24 in the installation application. Attach the inner and outer flex vent collars to the termination end of the _DSF5-24 prior to connecting to the termination. The inner and outer flex vent collars will slide into the telescoping components of the termination.

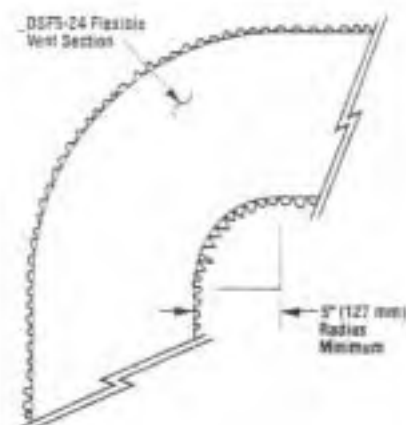


Figure 27

A. Analyze the vent routing and determine the types and quantities of sections required. Venting is available in 10 $\frac{3}{4}$ " (260 mm), 16 $\frac{3}{4}$ " (413 mm) and 34 $\frac{3}{4}$ " (867 mm) net section lengths. Make allowances for elbows as indicated in Figure 28. Maintain a minimum 1" (25 mm) clearance to combustibles on the vertical sections. Clearances for the horizontal runs are: 3" (76 mm) on top, 1" (25 mm) on sides, and 1" (25 mm) at the bottom.

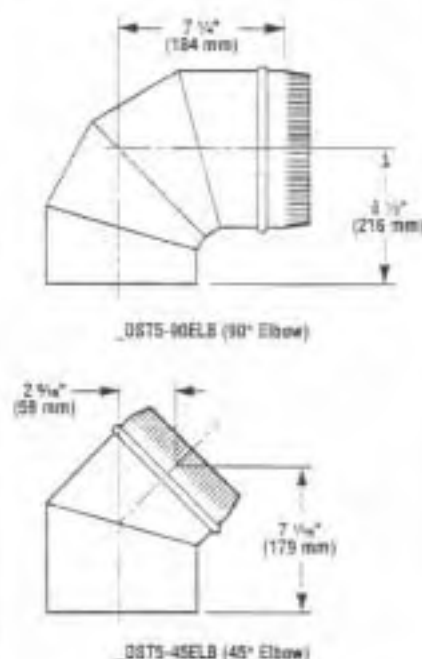


Figure 28

B. Locate the center of the vent outlet on the exterior wall. Cut and/or frame a 12" x 12" (305 mm x 305 mm) inside opening about the center. Install firestop (supplied with the termination) at outer surface with indicated "top" surface in up position. (Figure 31)

C. If the vertical route is to penetrate a ceiling, use plumb line to locate the center above the appliance. Cut and/or frame a 12" x 12" (305 mm x 305 mm) inside opening about the center (refer to Figure 17).

D. At the ceiling opening, mount a DST5-FSV firestop to the underside surface of framing. (Position firestop at the top side only in attic space.)

WARNING: A $\frac{3}{8}$ " (10 mm) BEAD OF MILL-PAC BLACK (700°F) HIGH TEMPERATURE SEALANT MUST BE APPLIED TO THE INNER APPLIANCE COLLAR BEFORE THE FIRST VENT COMPONENT IS ATTACHED (FIGURE 18) AND TO ALL SUBSEQUENT INNER VENT CONNECTIONS. FAILURE TO SEAL ALL THE INNER JOINTS WITH THIS HIGH TEMPERATURE SEALANT MAY CAUSE THE APPLIANCE TO OPERATE IMPROPERLY.

E. The vent sections are crimped at one end to provide a slip fit for elbows and additional vent sections. To begin a vent run, apply Mill-Pac Black (700°F) high temperature sealant to the inner joint, being sure of a 100% seal (Figure 29). Slide the 5" (127 mm) inner section onto the center appliance collar. (Crimped end always upward.) Locate and transfer drill a $\frac{1}{8}$ " (3 mm) diameter hole through the collar at the two (2) punched holes (180° apart). Use two (2) No. 8 x $\frac{1}{2}$ " sheet metal screws to secure the section.

IMPORTANT: APPLY MILL-PAC BLACK (700°F) HIGH TEMPERATURE SEALANT AT INNER JOINT CONNECTIONS.



Figure 29

F. Next, slip the outer section over the inner and onto outer appliance collar, bottoming out at the bead. Make sure the crimped end of both inner and outer vent sections are the same height. Secure using two (2) sheet metal screws.

G. To add vent sections, start with the 5" (127 mm) inner section and slide it over the previously installed inner section; an overlap of 1 $\frac{1}{4}$ " (32 mm) is required. The section will not bottom out on the bead. Remember to seal inner sections using Mill-Pac Black (700°F) high temperature sealant on the mating surfaces before fitting together. Secure with two (2) No. 8 x $\frac{1}{2}$ " sheet metal screws. Slide the 8" (203 mm) outer section over the previously installed outer section; a 1 $\frac{1}{4}$ " (32 mm) overlap is required. This section will not bottom out on the bead. Make sure the crimped end of both inner and outer vent sections are the same height and that the centering spacer is properly seated. Secure with two (2) No. 8 x $\frac{1}{2}$ " sheet metal screws.

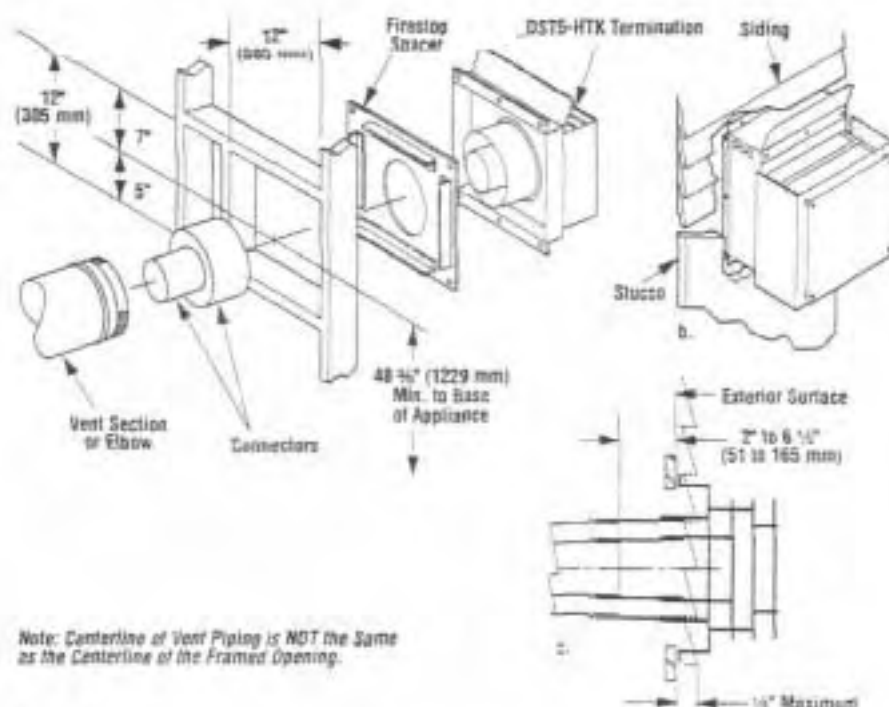
Note: The uncrimped end of the vent may be trimmed when necessary or the adjustable extension, DST5-EXT, may be used.

H. At transition from or to a horizontal/ inclined run, the DST5-90ELB/ DST5-45ELB/ DVSP5-90ELB elbows install in the same manner as the straight vent sections (Figure 30). Apply Mill-Pac Black (700°F) high temperature sealant to the inner joints. Slip the inner elbow over the straight inner vent section. Seal outer joints with appropriate sealant. Secure with two (2) screws. Slide the outer elbow over the inner elbow, slip down over the outer vent section. Secure with two (2) screws.

The elbow may not be mounted directly to the top of the appliance. The DVT8 appliance must be fitted with at least 12" of vertical vent before beginning a horizontal vent run.



Figure 30



Note: Centerline of Vent Piping is NOT the Same as the Centerline of the Framed Opening.

Figure 31

I. Continue with the installation of the straight vent sections in the horizontal/inclined run as described in Step G. Install support straps every 6' (2 m) along horizontal or inclined vent runs using conventional plumbers tape. It is **very important** that the horizontal run be maintained in a straight (no dips) and slightly elevated plane (1/4" rise/12" run). Use a carpenter's level to measure from a constant surface and adjust the support straps as necessary. It is important to maintain the required clearances to combustibles: 1" (25 mm) at all sides for all vertical runs; and 3" (76 mm) at the top, 1" (25 mm) at sides, and 1" (25 mm) at the bottom for all horizontal/inclined runs.

J. If not previously measured, locate the center of the vent line at the exterior wall. Prepare opening as described in B. Assemble the vent system to a point where last section is within 2" (51 mm) to 6 1/4" (165 mm) inboard the exterior "finished" surface, see Figure 31c.

Note: The uncrimped end of the vent may be trimmed when necessary or the adjustable extension, Model _DST5-EXT, may be used.

Slide each connector tube (supplied with the termination package) onto its respective vent section, bottoming out at the bead. Apply _Mill-Pac Black (700°F) high temperature sealant to the inner connector tube.

K. To install the _DST5-HTK apply a liberal bead of _Mill-Pac Black (700°F) high temperature sealant at the inner mounting flange for sealing purposes. Orient the housing with surface marked "top" upward. Visually align at the opening and carefully insert to engage over both inner and outer connector tubes. Slide inward until the housing bottoms at the finished exterior wall. The horizontal termination must not be recessed into the exterior wall or siding. Secure with 8d nails at holes in upper and lower flanges (Figure 31).

Note: Apply appropriate sealant to the outer joints of the _DST5-HTK.

The _DV-HTK-1 termination installs in exactly the same way as the _DST5-HTK termination. Orient the _DV-HTK-1 with the louvered wall shield upwards.

Step 6. Installing the Optional Remote Wall Switch – The standard _DVT8 millivolt system comes from the factory wired as shown in Figure 32. Select a convenient location for the remote wall switch and connect the wiring to the appliance (Figure 33).

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

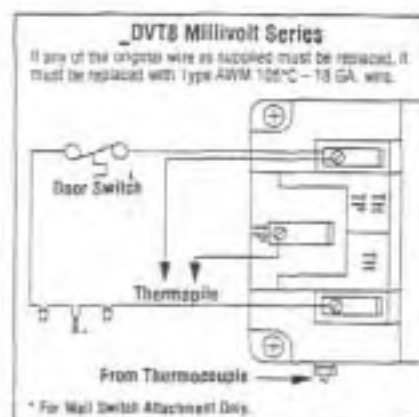


Figure 32

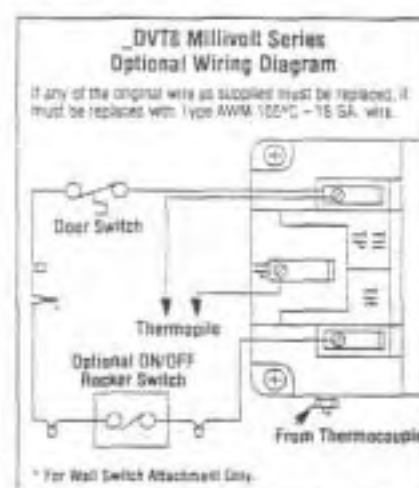


Figure 33

Note: The optional rocker switch is mounted to the appliance and wired in the same way as the remote wall switch.

Step 7. Field Wiring Electronic Appliances – Regardless of whether an optional forced air blower kit (Figure 34) is to be installed now or sometime in the future, the appliance must be connected to the main power supply. To install, route a 3-wire 120V 60Hz power supply to the appliance junction box (located in the lower left side of the appliance) and ground. Also, at this time you may wish to locate and install an optional low voltage (24V) wall switch (Figure 35) in the desired location, connect the low voltage wire to this switch. For blower wiring, refer to the installation instructions provided with the forced air kit and the following paragraphs.

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

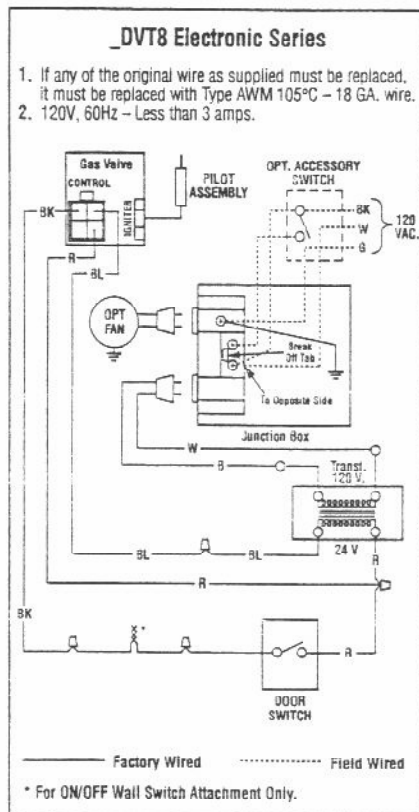


Figure 34

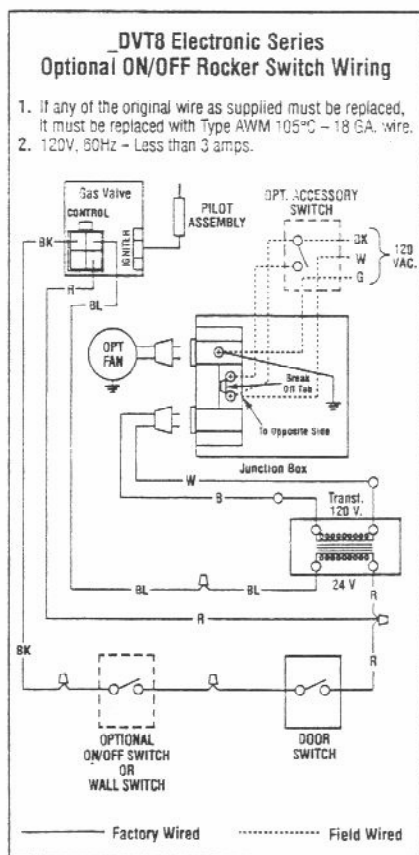


Figure 35

Note: The optional rocker switch is mounted to the appliance and wired in the same way as the remote wall switch (Figure 35).

Step 8. Installing the Optional Forced Air Blower Kit Wiring - A receptacle plate is provided for the installation of the _FAB-1600 forced air blower kit (optional). Electrical power must be provided to this plate to operate the blower.

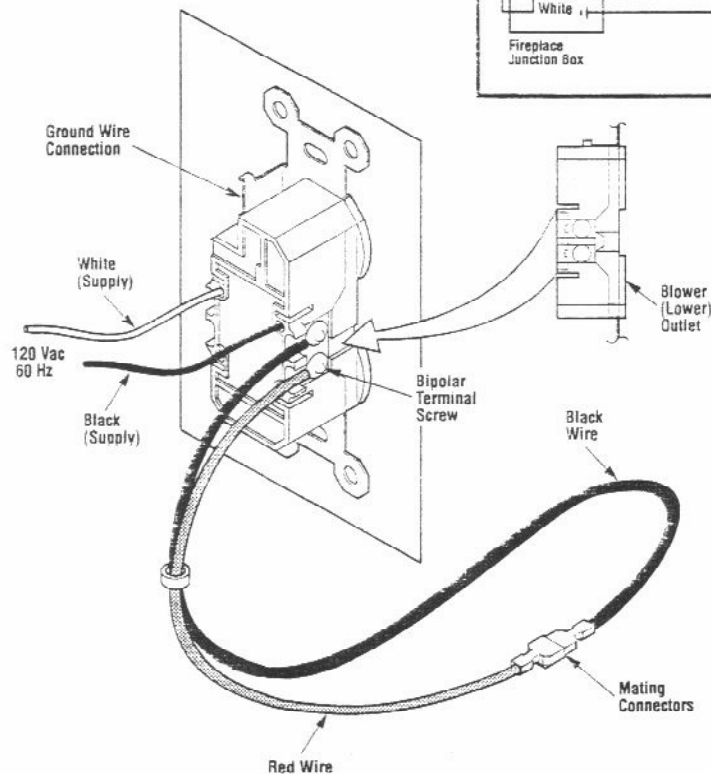
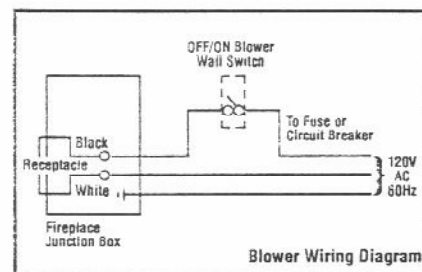
Remove the outlet box assembly from the appliance by removing the screws from the front leg and straightening the tab on its back side.

Route a 3-wire, 120Vac power line with control switch to the lower left front corner of the appliance. Supply wires are to be connected to the outlet as shown in Figure 36, ensuring that the polarity (as determined by the colors of the wires) is exactly as shown. **The black and red wire loop must be left intact, with the mating connectors connected.** Reinstall the outlet box.

IMPORTANT: Ground lead must be connected to the green screw located on the junction box cover plate. Failure to do so will prevent the appliance from operating. The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, the National Electrical Code, ANSI/NFPA 70-latest edition. (In Canada, the current CSA C22-1 Canadian Electrical Code.)

The standard optional forced air blower kit or blower kit with thermal snap switch, may be mounted at initial appliance installation or at any time thereafter. Follow the instructions provided with the blower kit.

Step 9. Connecting Gas Line - Make gas line connections. All codes require a shut-off valve mounted in the supply line. Figure 37 illustrates two methods for connecting the gas supply. The flex-line method is acceptable in the U.S., however, Canadian requirements vary depending on locality. Installation must be in compliance with local codes.



Note: Supply wires may be alternatively connected to the outlet using the screw terminals, however the black supply wire must be ganged wired to the same terminal that the pre-wired black wire is attached to and the white supply wire must be connected to the opposite side of the outlet.

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

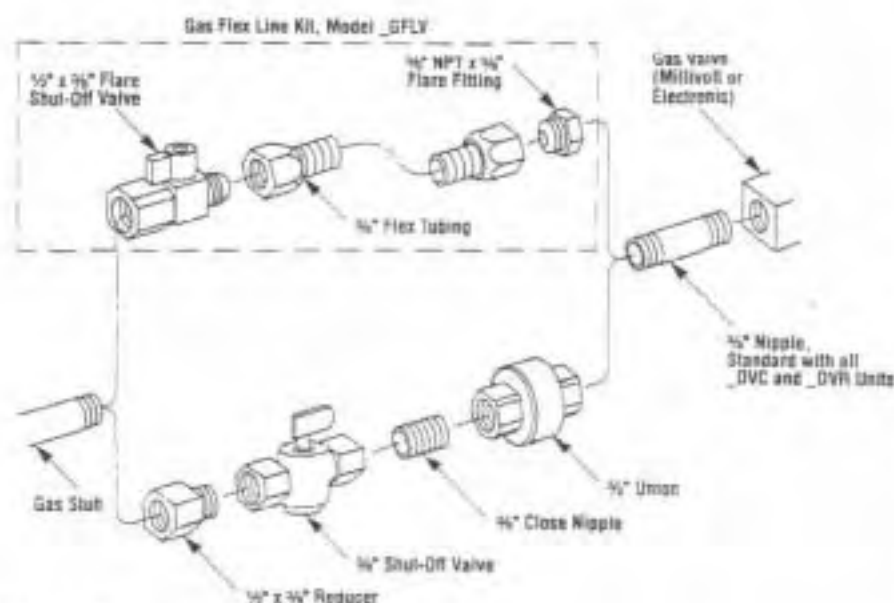


Figure 37

The gas control valve is located in the lower control compartment. To access the valve open the lower control compartment door (Figure 38). The millivolt control valve has a $\frac{1}{2}$ " (10 mm) NPT thread inlet port. The electronic control valve has a $\frac{1}{2}$ " (13 mm) NPT thread inlet port and is fitted with a $\frac{1}{2}$ " x $\frac{3}{4}$ " (13 mm x 10 mm) NPT fitting. Both the millivolt and electronic models are fitted with a 3" (76 mm) long nipple, $\frac{1}{2}$ " NPT. Plan the connections accordingly.

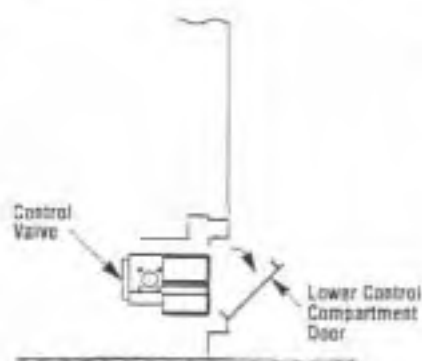


Figure 38

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

A. Mix a 50% dish soap, 50% water solution.

B. Light the appliance (refer to the safety and lighting instructions on pages 24 through 27) (See ***Note**).

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

***Note:** To operate the appliance while leak testing, ensure that the door switch is depressed or the unit will not light (refer to Figure 42).

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

High Elevation Derating

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

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

In Canada

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

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

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

To derate this unit, order and install the appropriate high altitude orifice kit per the chart below. Remove two (2) screws found at the base of the burner tray and remove the burner tray with tube. Use care to prevent damage to the air shutter adjustment rod. Remove the orifice (Figure 39) and replace with the appropriate one from the kit. Refer to the following chart. Be sure to attach the conversion sticker provided with the kit to the rating plate on the appliance.

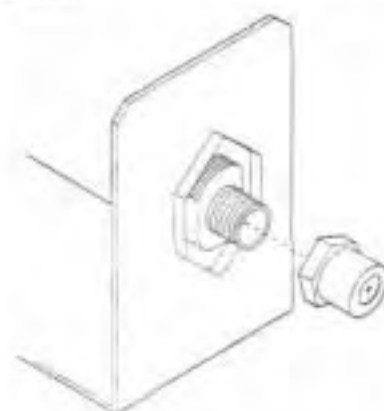


Figure 39

Gas Type	Orifice Size	High Alt. Kit	Elevation
Natural	#30 (.1285)	—	0 - 2000' (0 - 610 m)
	#31 (.120)	SFC P/N 063926	2000 - 4500' (610 - 1370 m)
Propane	#50 (.070)	—	0 - 2000' (0 - 610 m)
	#52 (.063)	SFC P/N 063893	2000 - 4500' (610 - 1370 m)

Step 10. Installing Logs and Ember Coals –

The logs are packaged in bubble wrap and wrapped to the inside of the door. The bag of Rockwool and ember coals is in the lower control compartment. Remove the ember coals from the packaging. Place the Rockwool and ember coals over the exposed screen at the base of the front bottom log hiding the front burner element and screen from view. Follow the detailed placement instructions provided with the material in the bag.

Carefully position and center the fiber logs onto the burner with the longer, scalloped and charred log in front and the shorter log in the back. Position the front log (A) with the cutout on its back fitted around the burner tube and the holes on its bottom side engaged with the tabs. Position the rear log (B) matching the cutout on its bottom with the position of the pilot and the holes on its bottom side engaged with the tabs. **Ensure that the burner bracket mounting tabs are located within the holes of these logs.** Place the smaller fiber logs (twigs) across the lower logs in the manner illustrated (Figure 40).

Position the center left twig (1) first on two pins, one in the front log (A) and one in the rear log (B). Position the center left twig (2) over the two pins, one in the rear log and one in the front log. Then position the center right twig (3) on to the pins in the rear and front log. Place center right twig (4) on the remaining two pins of the front and rear logs. Place top left twig (5) over the pin on the center left twig (1) as shown in Figure 40. Place top center twig (7) over the pins on the (2) and (4) twigs. Place top right twig (5) over the pins on twigs (4) and (7). Top center twig (7) and the front log will have some flame impingement, all other logs and twigs should not impinge on the flames.

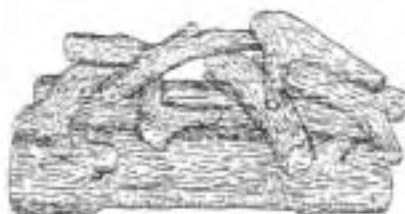


Figure 40

Appliance Operation

Step 11. Checking the System – With gas line installed run initial system checkout before closing up the front of the unit. Follow the pilot lighting instructions on page 24 for millivolt appliances. Refer to page 26 for electronic appliance lighting instructions.

Note: Instructions are also found on the valve shield located inside the bottom control compartment of the appliance.

Note: The door switch must be held closed for burner operation when testing.

When first lighting the appliance, it will take a few minutes for the line to purge itself of air. Once purging is complete, the pilot and burner will light and operate as indicated in the instruction manual. Subsequent lightings of the appliance will not require such purging. Inspect the pilot flame (remove logs, if necessary, handling carefully).

Millivolt Appliance Checkout

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

The top $\frac{3}{8}$ " (10 mm) at the pilot generator (thermopile) and the top $\frac{1}{8}$ " (tip) of the quick drop out thermocouple should be engulfed in the pilot flame. The flame should project 1" (25 mm) beyond the hood at all three ports (Figure 41).

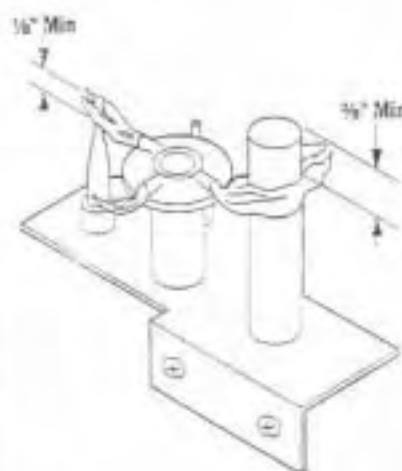


Figure 41

Replace logs if removed for pilot inspection.

To light the burner, turn "ON" the remote wall switch, manually depress and hold the door switch (Figure 42) and rotate the gas valve control knob counterclockwise to the "ON" position ("ON" will be at the bottom side of the valve).

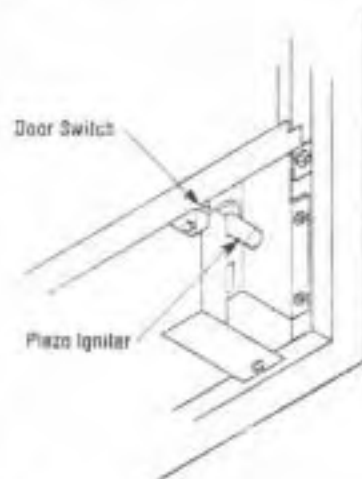


Figure 42

Electronic Appliance Checkout

To light the burner, turn "ON" the optional remote wall switch, manually depress and hold the door switch (Figure 42) and turn the gas control switch to the "ON" position. Ensure the igniter lights the pilot. The pilot flame should engulf the flame rod as shown in Figure 43.

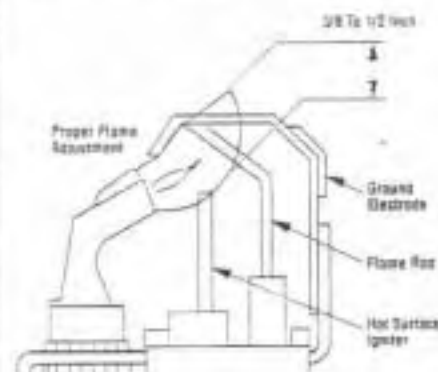


Figure 43

Step 12. Installing the Glass Door Frame – Retrieve the glass door frame. Visually inspect the gasket on the backside of the panel. Gasket surface must be clean, free of irregularities and seated firmly.

Position the door frame in front of the firebox opening, with the joint in the gasket down (Figure 44). Locate the three (3) tabs at the bottom edge of the door frame into the three (3) brackets at the base of the fireplace front opening. Lean the door frame back towards the firebox ensuring that the gasket seats evenly as the door frame draws shut. Install the three (3) ¼"-20 x 1" Phillips pan head screws removed previously and tighten to secure. Ensure that the tab on the bottom of the door frame engages the door switch.

Make sure the screws are tightened equally to avoid torquing the door.

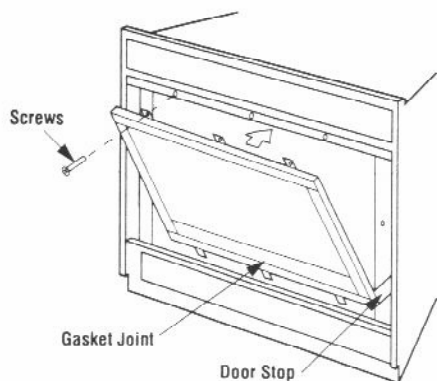


Figure 44

WARNING: HANDLE THIS GLASS WITH EXTREME CARE! THE GLASS PANEL IS SUSCEPTIBLE TO DAMAGE — DO NOT SCRATCH WHILE HANDLING OR WHILE RE-INSTALLING THE GLASS DOOR FRAME.

Step 13. Adjustments — The following paragraphs address adjustment concerns and procedures.

Flame Appearance and Sooting

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

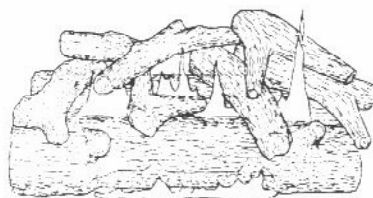
If the air shutter opening is too small sooting may develop. Sooting is indicated by black puffs developing at the tips of very long orange flames. Sooting results in black deposits forming on the logs, appliance inside surfaces and on exterior surfaces adjacent to the vent termination. Sooting is caused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

To achieve a warm yellow to orange flame with an orange body that does not soot, the shutter opening must be adjusted between these two extremes and appliances installed with long vertical vent runs must be fitted with the provided air restrictors.

The primary cause of anemic flames in the DVT8 systems is excessive secondary combustion air. The symptom of this (anemic flames) occurs when vertical vent runs are in excess of ten feet. To prevent this from occurring it is necessary to install the air restrictors on the _DST5-VTK vertical termination. To install the air restriction rings refer to the installation instructions provided in the termination. Secure the rings in place with the screws provided.

Note: Excessive primary and secondary combustion air are the main cause of anemic flames. The air restrictor kit can reduce the availability of both of these. Install the air restrictor kit before making any adjustments to the air shutter opening. If, at initial start up, the appliance exhibits signs of sooting do not install the air restrictor kit, regardless of any height requirements.

No smoke or soot should be present. Reposition the logs as shown in Figure 45 if the flames impinge on any of them.



1" - 1½" blue to yellow flames with spikes from the front burner will impinge on the charred area of the front log and cause it to glow.

Figure 45

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

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

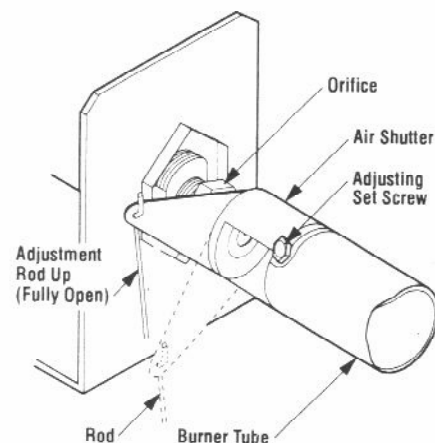
Note: If refractories are installed, remove them prior to the adjustment procedure to prevent permanent damage from soot build up. Ensure that the door is closed and sealed during adjustment.

Adjustment

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

To adjust the flame, move the adjustment rod up or down (located in the lower control area). Position the air shutter to the nominal setting (Figure 46). Allow the burner to operate for at least 30 minutes. Observe the flame continuously. If it appears weak or sooty as previously described, adjust the air shutter by pushing or pulling on the adjustment rod until the flame appearance is as desired. The adjustment rod and associated adjustable air shutter is patented technology. Flame adjustments can be made quickly and accurately to taste without the need of disassembling the appliance and waiting for 30 minutes after each adjustment.

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



Nominal Air Shutter Settings
Natural Gas - ⅛" Open
Propane Gas - ¼" Open

Figure 46

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

FINISHING REQUIREMENTS

Wall Details

Complete finished interior wall. To install the appliance facing flush with the finished wall, position framework to accommodate the thickness of the finished wall (Figures 47 and 48).

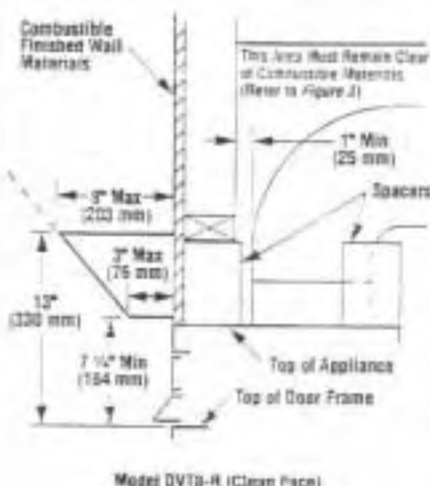


Figure 47

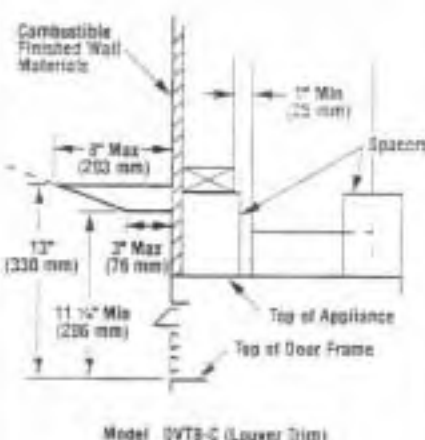


Figure 48

A hearth extension is not required with this appliance. If a hearth extension is used, do not block the lower control compartment door. Any hearth extension used is for appearance only and does not have to conform to standard hearth extension installation requirements.

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

A combustible mantel shelf projecting a maximum of 8" (203 mm) from the wall may be installed a minimum distance of 13" (330 mm) from the top of the door frame (Figure 49).

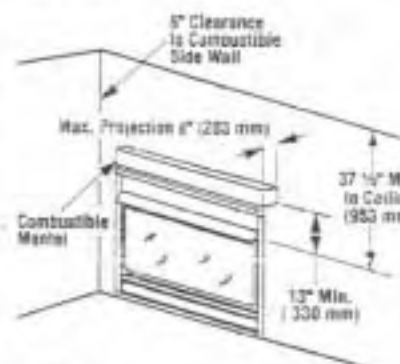


Figure 49

COLD CLIMATE INSULATION

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

DIRECT VENT SERIES OPTIONS

An incomparable package of options are available for use with these Direct Vent appliances. These options can both customize the operation of these unique appliances and enhance their beauty and charming appeal. All options are available in kit form, are easy to install and are packaged complete with all required parts and instructions. Some of the option kits need to be fitted prior to completing the installation of the appliance. The following paragraphs detail the kit options available for use with the appliances covered in this manual.

These outstanding optional items can be added individually or in sets of two or more to customize your direct vent appliance to fit your home's unique needs.

Forced Air Kit

The _FAB-1100 blower provides for a constant velocity forced air circulation feature for your appliance.

The _FAB-1600 assembly with variable speed wall switch provides a forced air circulation feature for your appliance.

These kits mount directly into the lower intake chamber with an electrical connection made at the receptacle provided. The appliance must have an independent 120Vac power line incorporated at the time of installation. Refer to Step 6 of the installation instructions supplied with the forced air kit (Figures 50 and 51).



Figure 50

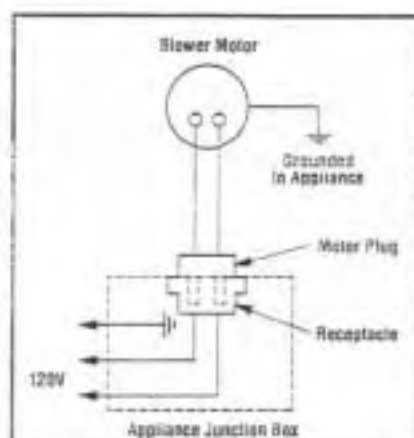


Figure 51

Decorative Log Rack

Decorative log rack provides the look of a wrought iron log grate. The log rack is easy to install. Simply place the log rack in front of the gas logs. This kit can be retrofitted to previously installed _DVT8 Series appliances.

Wall Switch Kit

An optional wall switch kit can be installed along with all direct vent appliances. The kit consists of a standard UL wall switch with cover plate. This kit provides for remote (wall) operation of the appliance. Replace the wall switch and cover plate of this kit with the components of the _RCK and you can have true remote control of your Direct Vent appliance, turning it on and off from your favorite easy chair. The wall switch kit should be installed along with the appliance. Refer to Figures 32 and 34 and Steps 6 and 7 for detailed installation instructions.

Optional on Unit Rocker Switch

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

Remote Control Kit

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

Refractory Liner Kit

One of the most beautiful enhancements you can make to these direct vent appliances is the addition of refractory liners. The refractory liner kit includes gray ceramic fiber panels for the rear and side walls of the firebox. The ceramic fiber panels have brick-like features in relief. To install the five panels, simply place them in position against the firebox walls. This kit can be retrofitted into previously installed appliances.

Porcelain Panel Kit

An alternative to the standard and refractory liner looks of the direct vent appliances is a porcelain panel for the back wall of the firebox. The porcelain panel reflects the image of the flames, greatly enhancing the warm appeal of the _DVT8 fire. The porcelain panel mounts directly against the firebox back wall with the hardware provided with the kit. This kit can be retrofitted to previously installed appliances.

Decorative Volcanic Stone

The decorative volcanic stone, Model _DVS, can be used to enhance the look of your appliance. Spread the decorative volcanic stone evenly around the bottom of the firebox.

Brass Hood

Attractive brass hoods are available in two styles to be used on either the clean-face or louvered-face _DVT8 appliances. These hoods are designed to be fitted to the face of the appliance above the door. In addition to providing an aesthetically pleasing appearance to your appliance installation, the hood reduces heat effects to decorative mantles and finish materials located directly above the fireplace opening. The _DVR hood kit includes the necessary attaching hardware. The _DVC hood kit snaps in to place in the position of the upper most top louver. This kit can be retrofitted to previously installed appliances.

Brass Louvers

Decorative brass louvers are available for use with all direct vent louvered-face (_DVT8-C) appliances. These louvers are designed to replace the standard black louvers that are provided with the appliance. The brass louver kit includes six (6) brass louvers that simply snap into place. They provide a touch of elegance to any _DVT8 appliance. This kit can be retrofitted to previously installed appliances.

Gas Flex Line with Valve

A gas flex line kit is available to aid in attaching the direct vent appliance to the gas supply. This kit can only be used where local codes permit. The kit includes a 1/2" NPT to 3/4" flare in line shut-off valve, a 12" flex line 3/4" female flare through and a 3/4" flare to 3/4" NPT fitting. The components of this kit are rated for both natural and propane gas. This kit is designed to be used as an aid in installing the appliance.

Decorative Arch Kits

Two arch kits are available for the _DVT8 Series. A one piece complete door arch kit and a four (4) piece arch frame kit. Both kits are easy to install and do not require hardware to attach them to the standard door frame. The four-piece arch frame kit can be installed without the bottom or bottom and side pieces to customize the look of your appliance. This kit can be retrofitted to previously installed _DVT8 Series appliances. The decorative arch kits can not be used in conjunction with the screen panel kit.

Ceramic Glass

The standard tempered glass of the direct vent door assembly can be replaced with ceramic glass if desired. The ceramic glass kit includes a ceramic glass panel with a factory mounted gasket. The ceramic glass panel is installed within the door frame in place of the tempered glass. This kit can be retrofitted to previously installed _DVT8 Series appliances.

Screen Panel Kit

An optional screen panel can be installed on the _DVT8 door. This screen panel is easy to install using the provided hardware. The screen panel can be installed with both ceramic and tempered glass in the door. This kit can be retrofitted to previously installed _DVT8 Series appliances. The screen panel kit may not be used in conjunction with the decorative arch kits.

Decorative Filigree Trim Kit

The decorative filigree trim kit is for use with all direct vent louvered-face (_DVT8-C) appliances. The decorative filigree kit is designed to replace the standard black louvers that are provided with the appliance and may be used in conjunction with components of the brass louver kit. The decorative filigree trim simply snaps into place to provide your appliance with a warm traditional look. This kit can be retrofitted to previously installed appliances.

Gas Conversion Kits

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

In Canada

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

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

Millivolt Conversion Kits

SFC P/N 067645 — Natural to Propane
SFC P/N 067646 — Propane to Natural

Electronic Conversion Kits

SFC P/N 067668 — Natural to Propane
SFC P/N 067669 — Propane to Natural

Step 1. Turn off the gas supply to the appliance. Remove the front glass door frame from the appliance. Open the lower control compartment door.

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

Step 3. Remove the two (2) screws located at the base of the burner tray. Remove the burner tray with the burner. Use care to prevent damage to the air shutter adjustment rod. Lift the rear of the burner tray up slightly and to the right to disengage the burner tube from the manifold and orifice.

Step 4. Millivolt Appliances - Mark the wires to the gas valve. Then remove and replace the gas valve (Figure 52).

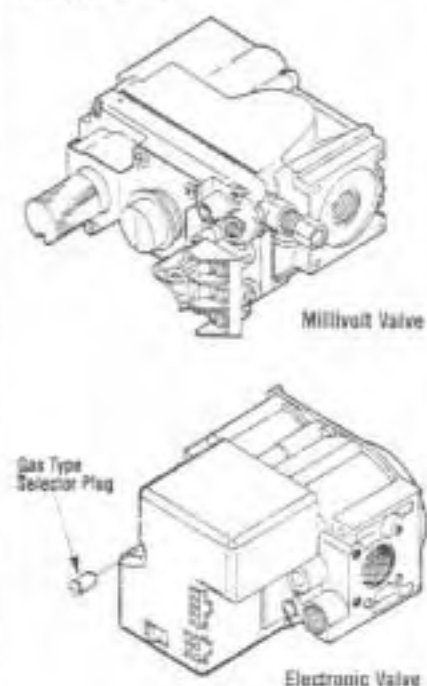


Figure 52

Step 5. Electronic Models - Remove the gas type selector plug (Figure 52) and turn it around to show the appropriate gas type and reinstall the selector plug. Gas type in use should be visible on the selector plug when it is installed. See Figure 53 and replace the pilot orifice as follows: Remove the igniter assembly retainer clip, and carefully remove the igniter assembly.

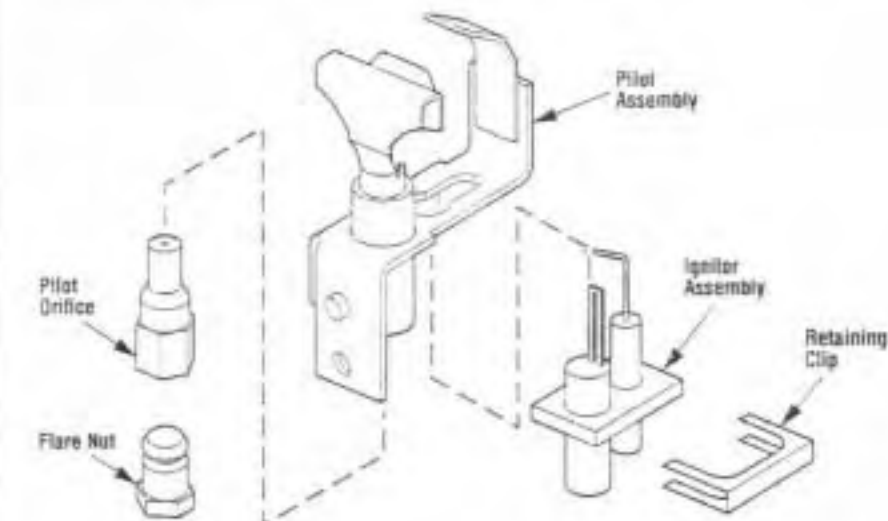


Figure 53

Exercise extreme care to prevent damage to or breakage of the igniter assembly. Remove the screw securing the pilot assembly to its mounting bracket. Back off the flare nut at the end of the pilot gas line to free the pilot assembly from the gas line. Remove the pilot orifice and replace it with the one provided with the conversion kit. Reinstall the pilot assembly by reversing the steps detailed here. When reinstalling the igniter assembly, use extreme care to prevent damage and breakage. Do not apply any leverage to the igniter assembly while restoring the retainer clip to its original position.

Note: If the igniter assembly is damaged, a replacement kit is available, order P/N 067675.

Step 6. Unscrew the orifice from the manifold and replace it with the one provided with the kit, #30 (0.1285) for natural gas units and #50 (0.070) for propane (Refer to Figure 39).

Step 7. Millivolt Appliances - Replace the pilot orifice with the one provided with the kit (Figure 54).

Step 8. Reassemble all removed components by reversing the procedures outlined in the preceding steps. Inspect spud gasket for damage; replace if necessary. Use pipe joint compound or Teflon tape on all fittings before installing (ensure propane resistant compounds are used in propane applications).

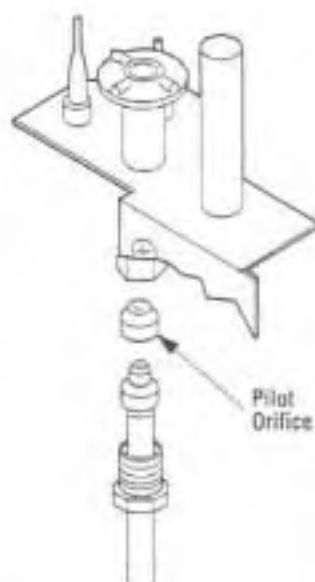


Figure 54

Step 9. Attach conversion kit label to the rating plate on the appliance. Label F for units converted to natural gas or Label I for units converted to propane (Figure 55).

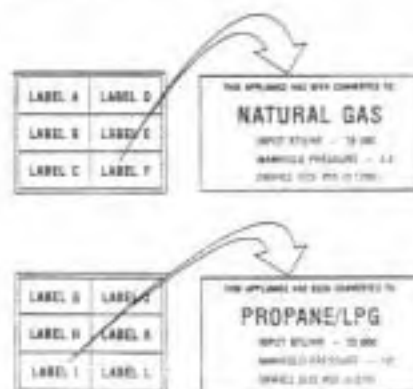


Figure 55

Step 10. Turn on gas supply and test for gas leaks as described in the gas line connection instructions. Step 9 on page 15.

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

OPERATION AND CARE OF YOUR APPLIANCE

1. Appliance operation may be controlled through the optional ON/OFF unit rocker switch, located in the lower control compartment, or through a remotely located optional wall switch. Separate switches may provide independent control for the forced air blower and remote fireplace operation (optional equipment).

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

3. Upon each lighting of the appliance, condensation may occur and fog the inside of the glass panel. This condition will disappear shortly as the appliance heats.

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

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

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

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

WARNING: OBSERVE CAUTION NEAR THE GLASS PANEL. THE GLASS PANEL MAY SHATTER UNEXPECTEDLY OR IF STRUCK WITH AN OBJECT.

8. **CAUTION: DO NOT OPERATE THIS APPLIANCE WITH A BROKEN GLASS PANEL.** Where broken glass exists, the complete glass door frame assembly must be replaced. See the Replacement Parts Lists on page 30 and 32 for correct parts. Glass door frame removal and re-assembly instructions are described on pages 7 and 16 respectively.

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

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

Maintenance

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

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

The main burner compartment should be inspected annually for proper operation. Remove glass door frame assembly and perform general cleaning to remove any surface build-up on pilot and burner assembly. Wipe the pilot nozzle, igniter rod and hood (Figures 41 and 43). Avoid disturbing the loose ceramic fibers on the front burner.

Refer to Step 12 for the glass door frame installation. When returning to service, verify proper flame characteristics as described in Step 13, refer to Figure 45.

Gasket Inspection

It is important that the glass door frame gasket be inspected at the beginning of the heating season by a qualified technician. Examine the sealing gasket for signs of deterioration. Also make sure the gasket has a positive seal, preventing combustion gases from escaping into the room. Replace the glass door frame if necessary with material identified in the Replacement Parts Lists on pages 30 and 32.

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

WARRANTY

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

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

REPLACEMENT PARTS

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

WARNING: THE GLASS DOOR OF THIS APPLIANCE IS MANUFACTURED WITH TEMPERED GLASS (39 5/8" X 21 5/8" X 3/4" THICK) (SEE *NOTE). DO NOT ATTEMPT TO SUBSTITUTE THE GLASS MATERIALS USED ON THIS DOOR. DO NOT ATTEMPT TO REPLACE THE GLASS DOOR OR GLASS WITH ANYTHING OTHER THAN MATERIALS SUPPLIED BY THE MANUFACTURER. THE GLASS DOOR MUST BE REPLACED AS A COMPLETE UNIT. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL VOID THE PRODUCT WARRANTY AND LIMIT MANUFACTURER LIABILITY.

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

When ordering repair parts, always give the following information:

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

**Note: 5mm thick ceramic glass is an available option from the factory. Consult your sales receipt.*

ACCESSORY PARTS AND COMPONENT LIST FOR _DVT8-C AND _DVT8-R SERIES APPLIANCES

The accessory parts and components on pages 24 and 25 are to be used only with this appliance system. Separate installation instructions are packaged with most accessories.

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

SFC
4325 Artesia Avenue
Fullerton, CA 92633
(714) 521-7392

NOTES:

ACCESSORIES AND COMPONENTS



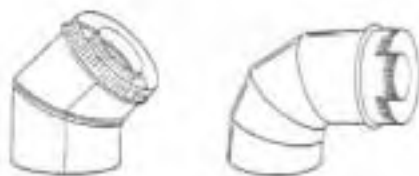
Vent Sections

_DST5-12
_DST5-18
_DST5-36



Adjustable Extension

_DST5-EXT



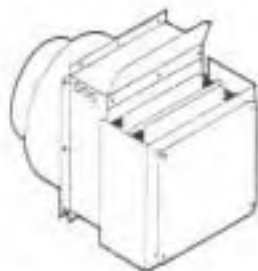
Vent Elbow (45°)
Vent Elbow (90°)
Vent Elbow (Starter)

_DST5-45ELB
_DST5-90ELB
_DVSP5-90ELB



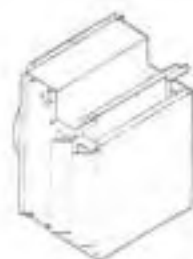
Vertical Termination

_DST5-VTK



Horizontal Termination

_DST5-HTX



Horizontal Termination

_DV-HTX-1



Flexible Vent Section

_DSF5-24



Firestop

_DST5-FSV



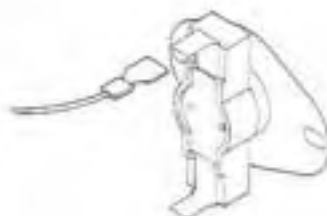
Flashing

_DST5-F



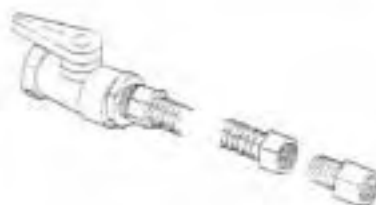
High Temperature
Sealant (700°)

_Mill-Pac Black



Snap Switch Kit

_SSK



Gas Flex Line Kit

_GFLV



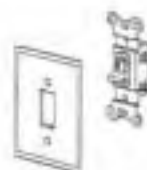
Remote Control Kit

_RCX



Rocker Switch Kit

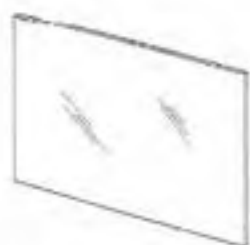
_RS



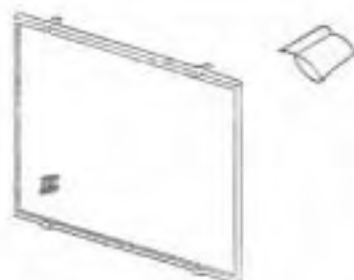
Wall Switch Kit

_WSK

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.



Ceramic Glass Kit _CGK-43

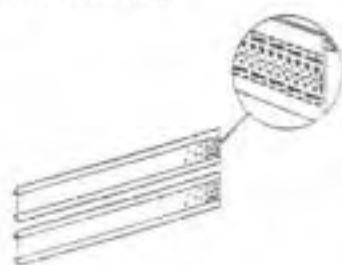


Screen Panel Kit _SPK-43



Brass Louver Kit _BLK-43C

For _DVT8-C models only.



Filigree Trim Kit _FTK-43

For _DVT8-R models only.



Brass Head Kit _PSH-43

For _DVT8-C models only.



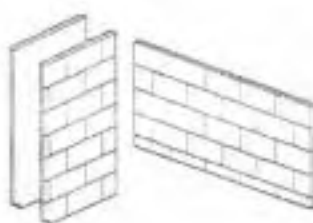
Head Kit Brass _PSH-43C



4-Piece Decorative Arch Frame Kit _DAT-43-4



1-Piece Decorative Arch Frame Kit _DAT-43-1



5-Piece Refractory Liner Kit _RLK-43



Porcelain Panel Kit _PPK-43



Log Rack Kit _DLR-43



Decorative Volcanic Stone _DVS



High Altitude Orifice Kits SFC P/N 063523 Natural Propane SFC P/N 063893



Forced Air Blower Kits (FAB-1000 Models Only) -Single Speed _FAB-1100 -Variable Speed _FAB-1000

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

LIGHTING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING

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

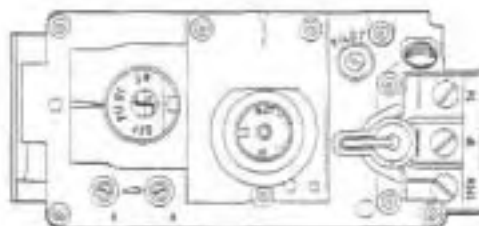
- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE OPERATING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

 - Extinguish any open flame.
 - Open windows.
 - Do not light any appliance.
 - Do not touch any electrical switches.
 - Do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone.
- If your gas supplier cannot be reached, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or an explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

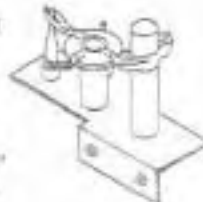
1. **STOP!** Read the safety information above on this page.
2. Access the lower control compartment.
3. Turn remote wall switch to "OFF."
4. Verify main line shut-off valve is open.
5. Push in gas control knob slightly and turn clockwise to "OFF."



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

6. Wait five (5) minutes to clear out any gas. If you then smell gas, **STOP!** Follow "B" in the safety information above on this page. If you do not smell gas, go to the next step.
7. Push in gas control knob slightly and turn counterclockwise to "PILOT."
8. Push in control knob all the way and hold in. Immediately light the pilot by triggering the spark ignitor (pushing the button) until pilot lights. Continue to hold the control knob in for about 1 1/2 minutes after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.

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



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

TO TURN OFF GAS TO APPLIANCE

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

INSTRUCTIONS D'ALLUMAGE

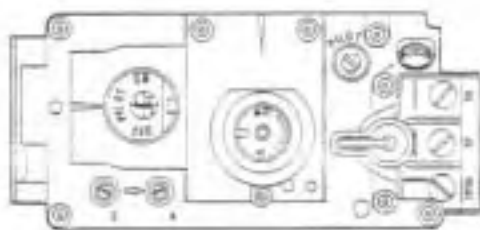
POUR VOTRE SÉCURITÉ, LISEZ-LES AVANT L'ALLUMAGE

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

- A. Cet appareil est muni d'une veilleuse qui doit être allumée à la main. Lorsque vous allumez la veilleuse, suivez exactement ces instructions.
- B. **AVANT DE VOUS EN SERVIR**, sentez tout autour de l'appareil où il pourrait y avoir une odeur de gaz. Reniflez près du plancher car, le gaz étant plus lourd que l'air, il se dépose sur le plancher.
- VOICI CE QUE VOUS DEVEZ FAIRE SI VOUS DÉCELEZ UNE ODEUR DE GAZ :**
- Éteignez toutes les flammes nues.
 - Ouvrez les fenêtres.
 - N'allumez aucun appareil.
 - Ne touchez à aucun commutateur électrique.
 - Ne vous serviez d'aucun téléphone dans votre édifice.
 - Appelez immédiatement votre compagnie de gaz en utilisant le téléphone d'un voisin.
 - S'il vous est impossible de contacter votre compagnie de gaz, appelez le service des incendies.
- C. Servez-vous uniquement de votre main pour tourner ou pour enfoncer le bouton de réglage du gaz. N'employez jamais un outil. Si le bouton refuse de tourner ou de bouger, ne tentez pas de le réparer. Appelez un technicien compétent et expérimenté. Si vous essayez de le forcer ou de le réparer, vous pourriez causer un incendie ou une explosion.
- D. Ne vous servez pas de cet appareil si l'un de ses éléments a été immergé dans l'eau. Appelez immédiatement un technicien compétent pour faire inspecter l'appareil et remplacer toute pièce du système de réglage ou commande du gaz qui a été sous l'eau.

INSTRUCTIONS D'ALLUMAGE

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



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

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

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

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

- Si le bouton ne sort pas automatiquement après avoir été relâché, arrêtez immédiatement et téléphonez à votre technicien de service ou à votre fournisseur de gaz.

- Si la veilleuse refuse de rester allumée après plusieurs tentatives, tournez le bouton de réglage jusqu'à sa position d'arrêt "OFF" et téléphonez à votre technicien de service ou à votre fournisseur de gaz.



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

POUR FERMER LE GAZ QUI ALIMENTE L'APPAREIL

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

LIGHTING INSTRUCTIONS — ELECTRONIC

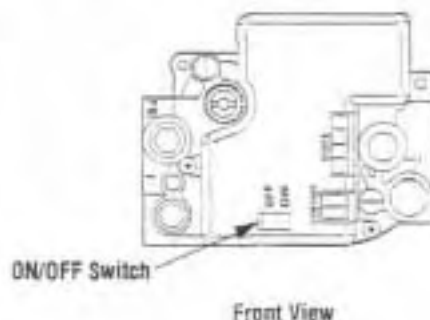
FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A.** When lighting the appliance, follow these instructions exactly.
- B.** BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS**
- Extinguish any open flame.
 - Open windows.
 - Do not light any appliance.
 - Do not touch any electrical switches.
 - Do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone.
 - If your gas supplier cannot be reached, call the fire department.
- C.** Use only your hand to turn the gas control lever. Never use tools. If the lever will not turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or an explosion.
- D.** Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information above on this page.
2. Turn remote wall switch to "OFF."
3. Open lower control compartment door.
4. Verify main line shut-off valve is open.
5. Turn the ON/OFF switch to "OFF". Do not force.
6. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this page. If you do not smell gas, go to the next step.
7. Turn the ON/OFF switch to "ON". Do not force.
8. Turn "ON" all electrical power to appliance (remote wall switch).
9. Close lower control compartment door.



TO SHUT OFF

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

TO TURN OFF GAS TO APPLIANCE

1. For complete shut-down, turn remote wall switch to "OFF."
2. Open lower control compartment door.
3. Turn the ON/OFF switch to "OFF". Do not force.
4. Close the main line shut-off valve.
5. Close lower control compartment door.

INSTRUCTIONS D'ALLUMAGE — ELECTRONIC

POUR VOTRE SÉCURITÉ, LISEZ-LES AVANT L'ALLUMAGE

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

A. Lorsque vous allumez l'appareil, suivez exactement ces instructions.

B. **AVANT DE VOUS EN SERVIR**, sentez tout autour de l'appareil où il pourrait y avoir une odeur de gaz. Reniflez près du plancher car, le gaz étant plus lourd que l'air, il se dépose sur le plancher.

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

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

• Appelez immédiatement votre compagnie de gaz en utilisant le téléphone d'un voisin.

• S'il vous est impossible de contacter votre compagnie de gaz, appelez le service des incendies.

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

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

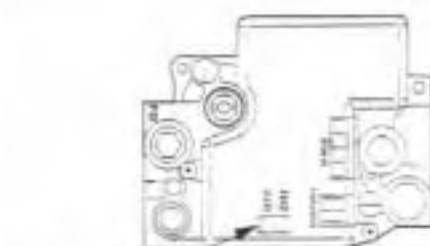
INSTRUCTIONS D'ALLUMAGE

1. **ARRÊTEZ !** Lisez les consignes de sécurité ci-dessus.

2. Tournez le télerupteur mural à sa position d'arrêt "OFF".

3. Ouvrez la porte du compartiment de contrôle du bas.

4. Assurez-vous que la soupape d'arrêt de la canalisation principale est ouverte.



Vue avant

5. Tournez la manette de réglage du gaz à sa position d'arrêt "OFF".

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

7. Tournez la manette de réglage du gaz jusqu'à sa position de marche "ON". Ne la forcez pas.

8. Ouvrez le courant électrique ("ON") qui alimente l'appareil (télerupteur mural).

9. Fermez la porte du compartiment de contrôle du bas.

POUR ÉTEINDRE L'APPAREIL

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

POUR FERMER LE GAZ QUI ALIMENTE L'APPAREIL

1. Pour une fermeture complète, tournez le télerupteur mural à sa position d'arrêt "OFF".

2. Ouvrez la porte du compartiment de contrôle du bas.

3. Tournez la manette de réglage du gaz à sa position d'arrêt "OFF". Ne la forcez pas.

4. Fermez la soupape d'arrêt de la canalisation principale.

5. Fermez la porte du compartiment de contrôle du bas.

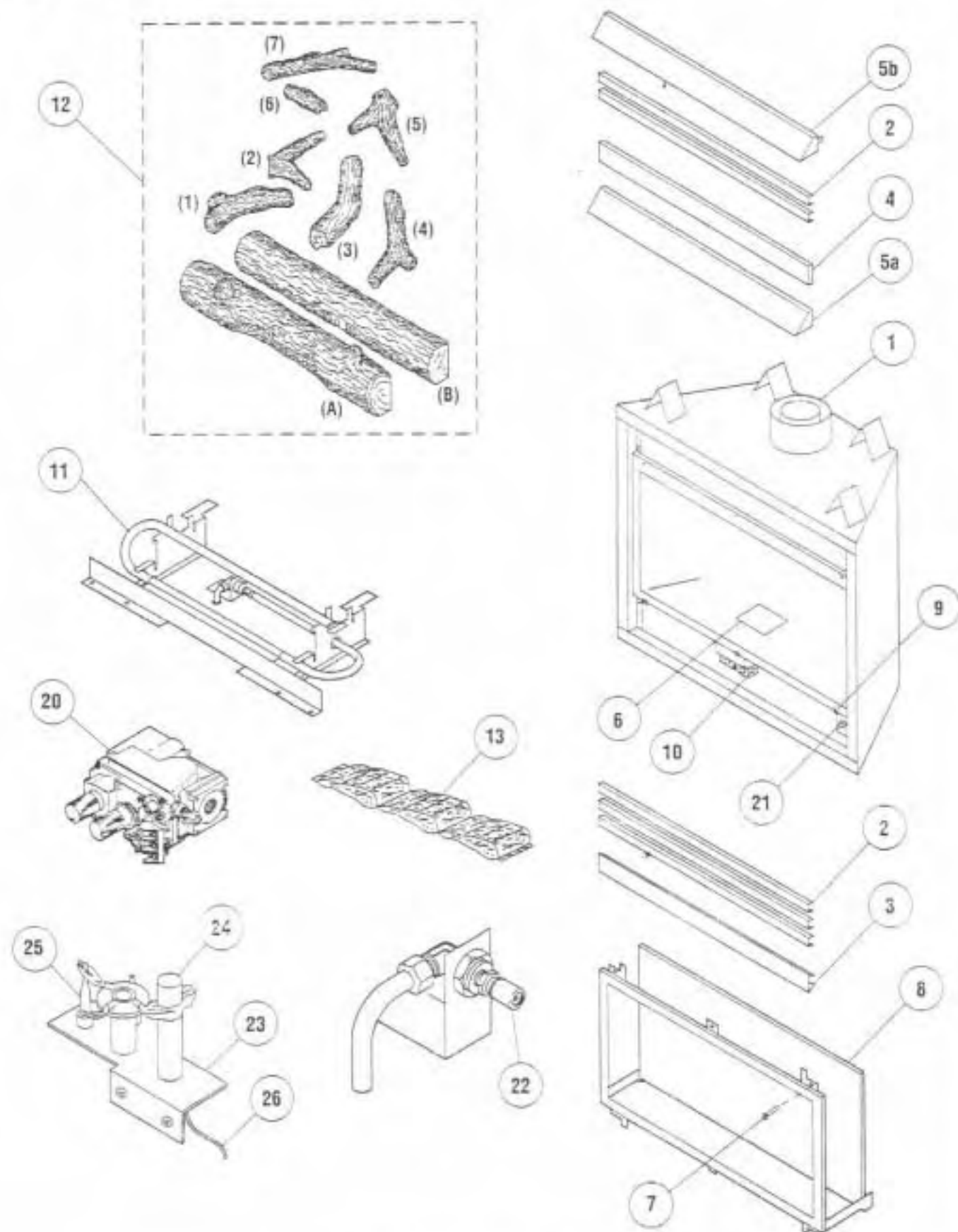
REPLACEMENT PARTS LIST — MILLIVOLT

No.	DESCRIPTION	_DVT8-CMNS		_DVT8-CMPS		_DVT8-RMNS		_DVT8-RMPS	
		Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
1.	Gas Fireplace Assembly	105872	1	105874	1	105871	1	105873	1
2.	Bar, Louver (Black)	104931	5	104931	5	104931	1	104931	1
3.	Panel, Lower, Radiant	—	—	—	—	104621	1	104621	1
4.	Panel, Upper Radiant	—	—	—	—	104601	1	104601	1
5a.	Hood (Black), Clean Face	—	—	—	—	104641	1	104641	1
5b.	Hood (Black), Louver Face	104581	1	104581	1	—	1	—	1
6.	Gasket, Spud	902123	1	902123	1	902123	1	902123	1
7.	Screw	000861	3	000861	3	000861	3	000861	3
8.	Replacement Glass Panel with Gasket	—	1	—	1	—	1	—	1
9.	Door Switch	094468	1	094468	1	094468	1	094468	1
10.	Control Panel Sub Assembly	106011	1	106011	1	106011	1	106011	1
11.	Burner Assembly	105291	1	105291	1	105291	1	105291	1
12.	Log Set (Rustic)	—	—	—	—	—	—	—	—
A.	Front Log	902342	1	902342	1	902342	1	902342	1
B.	Rear Log	902343	1	902343	1	902343	1	902343	1
(1).	Twig, Center, Left-1	902312	1	902312	1	902312	1	902312	1
(2).	Twig, Center, Left-2	902313	1	902313	1	902313	1	902313	1
(3).	Twig, Center, Right-2	902344	1	902344	1	902344	1	902344	1
(4).	Twig, Center, Right-1	902314	1	902314	1	902314	1	902314	1
(5).	Top Twig, Right	902316	1	902316	1	902316	1	902316	1
(6).	Top Twig, Left	902345	1	902345	1	902345	1	902345	1
(7).	Twig, Top Center	902315	1	902315	1	902315	1	902315	1
13.	Bag of Rockwool/Ember Coals	125011	1	125011	1	125011	1	125011	1

GAS CONTROLS — MILLIVOLT

No.	DESCRIPTION	_DVT8-CMNS		_DVT8-CMPS		_DVT8-RMNS		_DVT8-RMPS	
		Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
20.	Gas Valve - S/T	902159	1	902160	1	902159	1	902160	1
21.	Piezo Igniter	091301	1	091301	1	091301	1	091301	1
22.	Orifice, Standard	901931	1	901933	1	901931	1	901933	1
	Orifice, High Altitude Kit	901932	1	094116	1	901932	1	094116	1
23.	Pilot Assembly	902161	1	902162	1	902161	1	902162	1
24.	Pilot Generator	094699	1	094699	1	094699	1	094699	1
25.	Thermocouple	902163	1	902163	1	902163	1	902163	1
26.	Ignition Cable	902164	1	902164	1	902164	1	902164	1

REPLACEMENT PARTS — MILLIVOLT



NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

REPLACEMENT PARTS LIST — ELECTRONIC

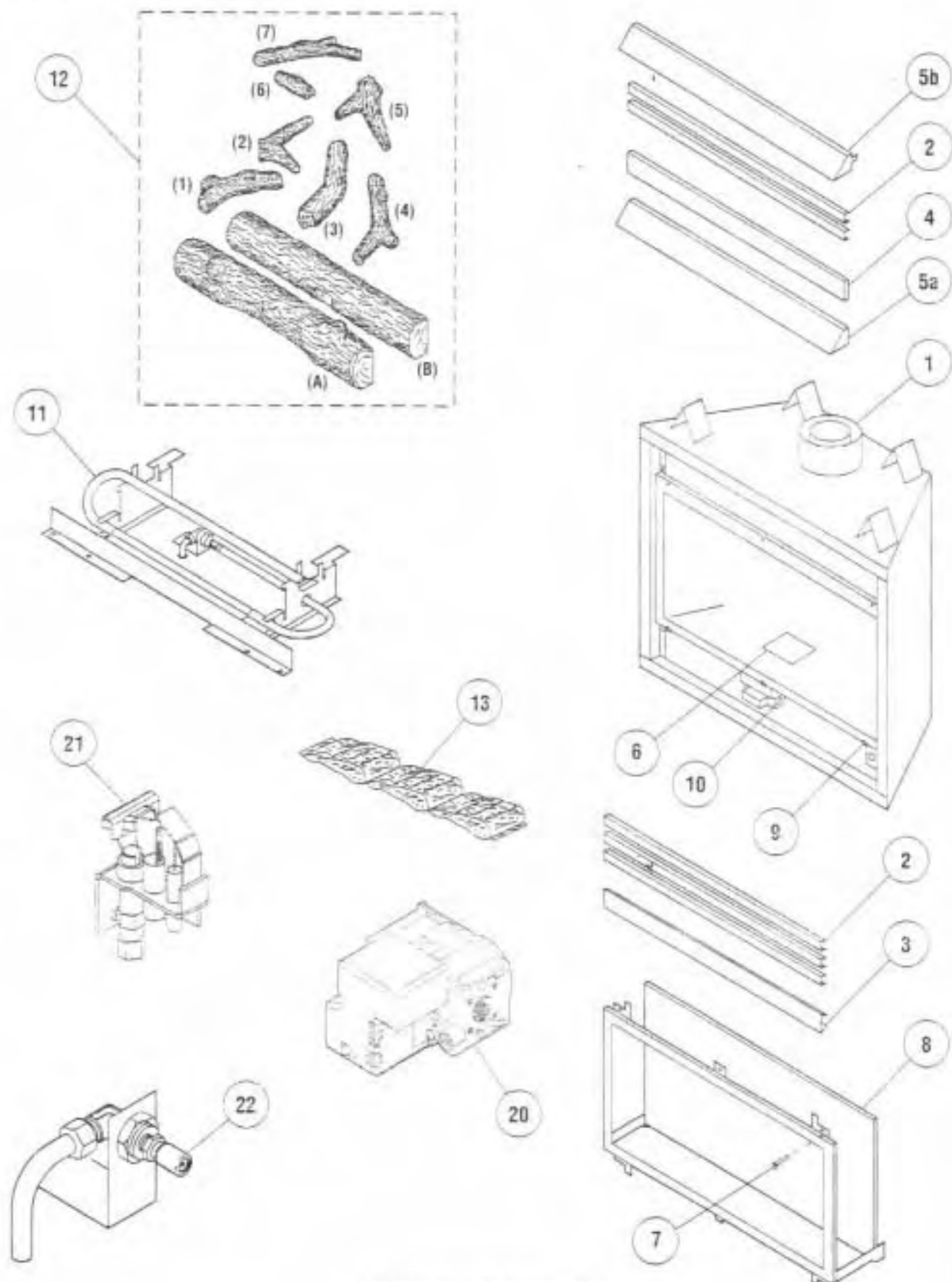
No.	DESCRIPTION	_DVT8-CENS		_DVT8-CEPS		_DVT8-RENS		_DVT8-REPS	
		Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
1.	Gas Fireplace Assembly	105882	1	105884	1	105881	1	105883	1
2.	Bar, Louver (Black)	104931	5	104931	5	104931	1	104931	1
3.	Panel, Lower, Radiant	—	—	—	—	104621	1	104621	1
4.	Panel, Upper Radiant	—	—	—	—	104601	1	104601	1
5a.	Hood (Black), Clean Face	—	—	—	—	104641	1	104641	1
5b.	Hood (Black), Lower Face	104381	1	104381	1	—	—	—	—
6.	Gasket, Spud	902123	1	902123	1	902123	1	902123	1
7.	Screw	000861	3	000861	3	000861	3	000861	3
8.	Replacement Glass Panel with Gasket	063917	1	063917	1	063917	1	063917	1
9.	Door Switch	094468	1	094468	1	094468	1	094468	1
10.	Control Panel Sub Assembly	106061	1	106062	1	106061	1	106062	1
11.	Burner Assembly	105291	1	105291	1	105291	1	105291	1
12.	Log Set (Rustic)	—	—	—	—	—	—	—	—
A.	Front Log	902342	1	902342	1	902342	1	902342	1
B.	Rear Log	902343	1	902343	1	902343	1	902343	1
(1).	Twig, Center, Left-1	902312	1	902312	1	902312	1	902312	1
(2).	Twig, Center, Left-2	902313	1	902313	1	902313	1	902313	1
(3).	Twig, Center, Right-2	902344	1	902344	1	902344	1	902344	1
(4).	Twig, Center, Right-1	902314	1	902314	1	902314	1	902314	1
(5).	Top Twig, Right	902316	1	902316	1	902316	1	902316	1
(6).	Top Twig, Left	902345	1	902345	1	902345	1	902345	1
(7).	Twig, Top Center	902315	1	902315	1	902315	1	902315	1
13.	Bag of Rockwool/Ember Coals	125011	1	125011	1	125011	1	125011	1

067675

GAS CONTROLS — ELECTRONIC

No.	DESCRIPTION	_DVT8-CENS		_DVT8-CEPS		_DVT8-RENS		_DVT8-REPS	
		Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
20.	Gas Valve - Honeywell	904404	1	904404	1	904404	1	904404	1
21.	Pilot Assembly	904227	1	904347	1	904227	1	904347	1
22.	Orifice, Standard	901931	1	901933	1	901931	1	901933	1
	Orifice, High Altitude Kit	901932	1	094116	1	901932	1	094116	1

REPLACEMENT PARTS — ELECTRONIC



NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

TROUBLESHOOTING THE MILLIVOLT GAS CONTROL SYSTEM

MODELS _DVT8-CMNS, _DVT8-CMPS, _DVT8-RMNS AND _DVT8-RMPS

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

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Spark ignitor will not light pilot after repeated triggering of red button.	A. Defective ignitor (no spark at electrode).	Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace ignitor.
	B. Defective or misaligned electrode at pilot (spark at electrode).	Using a match, light pilot. If pilot lights, turn off pilot and trigger the red button again. If pilot lights, an improper gas mixture caused the bad lighting and a longer purge period is recommended. If pilot will not light - check gap at electrode and pilot - should be $\frac{1}{8}$ " to have a strong spark. If gap measures $\frac{1}{8}$ ", replace pilot (Figure 41).
	C. Gas supply pressure errant.	Check inlet gas pressure. It should be within the limits as marked on the rating plate.
	D. Pilot orifice plugged.	Clean or replace pilot orifice.
2. Pilot will not stay lit after carefully following the lighting instructions.	A. Defective pilot generator (thermocouple).	Check pilot flame, it must impinge on thermocouple (Figure 41). Clean and/or adjust pilot for maximum flame impingement on thermocouple. Ensure that the connection between the valve and thermocouple are tight and secure.
3. Pilot burning, no gas to burner, Valve knob "ON," Wall Switch "ON."	A. Wall switch or wires defective.	Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch, if burner comes on, replace defective wall switch. If okay, jumper wires across wall switch wires at valve, if burner comes on, wires are faulty or connections are bad.
	B. Thermopile may not be generating sufficient millivoltage.	Check thermopile with millivolt meter. Take reading at thermopile terminals of gas valve. Should read 325 millivolts minimum with optional wall switch "OFF." Replace faulty thermopile if reading is below specified minimum.
	C. Plugged burner orifice.	Check burner orifice for stoppage and remove.
	D. Defective door switch (located at lower right corner of door frame).	Remove door frame (see instructions). Remove two (2) screws from switch mounting bracket, pull switch out. Jumper wire across terminals of door switch. If burner comes on, door switch is defective. Replace.
4. Frequent pilot outage problem.	A. Pilot flame may be too low or blowing (high) causing the pilot safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on thermocouple (Figure 41). For vertical termination vent systems taller than 10 feet, use an air restrictor.
5. Frequent burner outage problem.	A. Pilot flame may be too low or blowing (high) causing the valve safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on thermopile (Figure 41). For vertical termination vent systems taller than 10 feet, use an air restrictor.

Select Series Limited Lifetime Warranty

THE WARRANTY

Superior Fireplace Company ("SFC") warrants your Select Series Vented Decorative Gas Appliance (your Select Series AFLE Fireplace Register ("Product")) to be free from defects in materials and workmanship at the time of manufacture. After installation, if any of the components manufactured by SFC in the Product are found to be defective in materials or workmanship during the lifetime of the original owner and while the Product remains at the site of the original installation, SFC will, at its option, replace or repair the defective components at no charge to you. SFC will also pay for reasonable labor costs incurred in replacing or repairing such components for a period of one year from the date of installation. THERE ARE EXCLUSIONS AND LIMITATIONS to this Limited Warranty as described herein.

EXCLUSIONS AND LIMITATIONS

This Limited Warranty applies to the original purchaser, but only if the Product is installed in the United States or Canada and only if installed in accordance with the precise instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices. If repair or replacement is not commercially practical, SFC will, at its option, refund the purchase price of the SFC Product.

Vent components, glass components and hardware excluded from this Limited Warranty. The following components are NOT warranted for the lifetime of the original purchaser but are warranted as follows:

- Cornices - repair or replacement for one year from the date of installation.
- Grates - repair or replacement for one year from the date of installation.
- Gasvalves - repair or replacement for one year from the date of installation.
- Logs - repair or replacement for one year from the date of installation.

We will not be responsible for: (a) damages caused by accident, war, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its safety or performance; (c) the Product must be subject to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and will result in a fire hazard; (d) damages caused by failing to observe proper maintenance and service in accordance with the instructions provided with the Product; (e) damages, repairs or replacement resulting from faulty installation or application of the Product.

This Limited Warranty covers only parts and labor as provided herein. In no case shall SFC be responsible for materials, components or construction which are not manufactured or supplied by SFC or for the labor necessary to replace, repair or remove such materials, components or construction. All replacement or repair components will be shipped F.O.B. the nearest SFC factory.

LIMITATION ON LIABILITY

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

In no event shall SFC be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after replacement or repair, and whether such damage is caused by SFC's negligence. SFC has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

We make no express warranties except as stated in this Limited Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this Limited Warranty or to create for us any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this Limited Warranty are in addition to and not a replacement of or substitution from any statutory warranties and other rights and remedies provided by law.

INVESTIGATION OF CLAIMS AGAINST WARRANTY

SFC reserves the right to investigate any and all claims against this Limited Warranty and to decide upon matters of settlement.

SFC NOT RESPONSIBLE FOR WORK DONE WITHOUT WRITTEN CONSENT

To receive the benefits and advantages described in this Limited Warranty, the appliance must be installed and repaired by a licensed contractor approved by SFC. Contact SFC at the address or phone numbers or during hours of operation listed below. SFC will not be responsible for the warranty work done by a contractor that is not approved without first obtaining SFC's prior written consent.

HOW TO REGISTER A CLAIM AGAINST WARRANTY

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