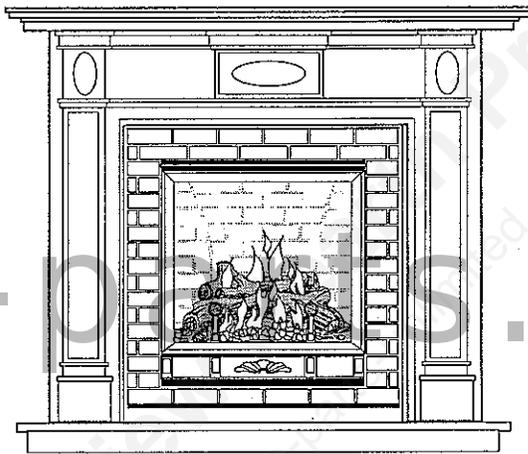


# VERMONT CASTINGS DIRECT VENT GAS FIREPLACE DV40 OWNER'S GUIDE

INSTALLATION, OPERATION AND MAINTENANCE PROCEDURES  
FOR USE IN NORTH AMERICA

#2051 and #2052



## **WARNING**

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

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

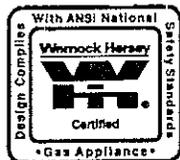
## **WHAT TO DO IF YOU SMELL GAS**

- Shut off the gas supply.
- Open windows; do not touch any electrical switches.
- Do not try to light any appliance; extinguish any open flame.
- Do not use the phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, phone the fire department.

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

**SAVE THIS MANUAL FOR FUTURE REFERENCE**

The DV40 Gas Fireplace, 2051 & 2052, are vented gas appliances listed to the ANSI standard Z21.44-1995 and CAN/CGA-2.19-M86 for Direct Vent Wall Furnaces. They are approved for bedroom installation in the United States and Canada. They are also tested to CGA Interim Requirement #41 for Direct Vent Gas Fireplaces.



"Direct vent" is a term used to describe a sealed combustion system in which incoming outside air for combustion and outgoing exhaust enter and exit through two separate concentric passageways within the same sealed vent system.

The installation of the DV40 Gas Fireplace must conform with local codes or, in the absence of local codes, with National Fuel Gas Code, ANSI Z223.1 — latest edition and CAN 1 B1-149.1 and 2 Installation Code. (Exception: Do not derate this appliance for altitude. Maintain the manifold pressure at 3.5 inches W.C. for Natural Gas and 10 inches W.C. for LP gas.)

Installation and replacement of gas piping, gas utilization equipment or accessories and repair and servicing of equipment shall be performed only by a qualified agency. The term "qualified agency" means any individual, firm, corporation or company that either in person or through a representative is engaged in and is responsible for either (a) installation or replacement of gas piping, or (b) the connection, installation, repair or servicing of equipment, who is experienced in such work, familiar with all precautions required, and has complied with all the requirements of the authority having jurisdiction.

The DV40 Gas Fireplace should be inspected before use and at least annually by a qualified service agency. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the DV40 Gas Fireplace be kept clean.

The DV40 Gas Fireplace and its individual shutoff valve must be disconnected from the gas supply piping during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa). The DV40 Gas Fireplace must be isolated from the gas supply piping system by closing its individual manual shutoff 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).

A 1/8-inch N.P.T. plugged tapping, accessible for test gauge connection, should be installed on the inlet gas connection. The DV40 Gas Fireplace, when installed, must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code ANSI/NFPA 70 (latest edition), or of the current Canadian Electrical Code C22.1.

## WARNING

The DV40 Gas Fireplace is hot while in operation. Contact may cause burns or ignition of combustible materials. Locate the appliance out of traffic and away from children's play areas, furniture and draperies.

Make children and adults aware of the hazards of high surface temperatures. They should stay away to avoid burning themselves or their clothing.

Supervise young children carefully when they are in the same room as the DV40 Gas Fireplace.

Do not place clothing or other inflammable material near or on the DV40 Gas Fireplace.

Prior to operating the DV40 Gas Fireplace, replace any safety screen or guard which has been removed for servicing.

The appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.

The flow of combustion and ventilation air must not be obstructed.

Do not operate the DV40 Gas Fireplace with the glass panel removed, cracked or broken. Replacement of the panel should be done by a licensed or qualified service person.

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.

Do not burn wood, trash or any other material for which this appliance was not designed. This appliance is designed to burn either natural gas or propane only.

This gas appliance must not be connected to a chimney flue serving a separate solid fuel burning appliance.

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Verify proper operation after servicing.

Only qualified service persons should perform installation and repair. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways be kept clean.

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**INSTALLER: PLEASE READ THIS MANUAL CAREFULLY BEFORE YOU BEGIN THE INSTALLATION PROCEDURES. FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY OR LOSS OF LIFE. THIS MANUAL CONTAINS IMPORTANT USER INFORMATION. KEEP THIS MANUAL WITH THE FIREPLACE AFTER INSTALLATION IS COMPLETE.**

# Specifications

Fuel	NG	LP
Model number	2051	2052
Min Manifold Pressure:	1 7" W C	4 6" W C
Max Manifold Pressure:	3 5"	10 0"
Min Inlet Supply Pressure for adjustment:	5 0"	11 0"
Max Inlet Supply Pressure for adjustment:	7 0"	13 0"
Steady State Efficiency:	72 2%	74 8%
AFUE*:	69 4%	70%
Input, BTU/hr Min.:	26,666	26,666
Input, BTU/hr Max	40,000	40,000
Max Output BTU/hr	28,800†	30,000†
Ignition:	Piezo with standing pilot	
Weight; Firebox w/ Glass & Logs:	365 lbs	
Glass Panel:	High temperature ceramic	

The DV40 fireplace is listed to ANSI Standard Z21 44-1995 and CAN/CGA-2 19-M86 for Direct Vent Wall Furnaces. It is also tested to CGA Interim Requirement #41 for Direct Vent Wall Furnaces.

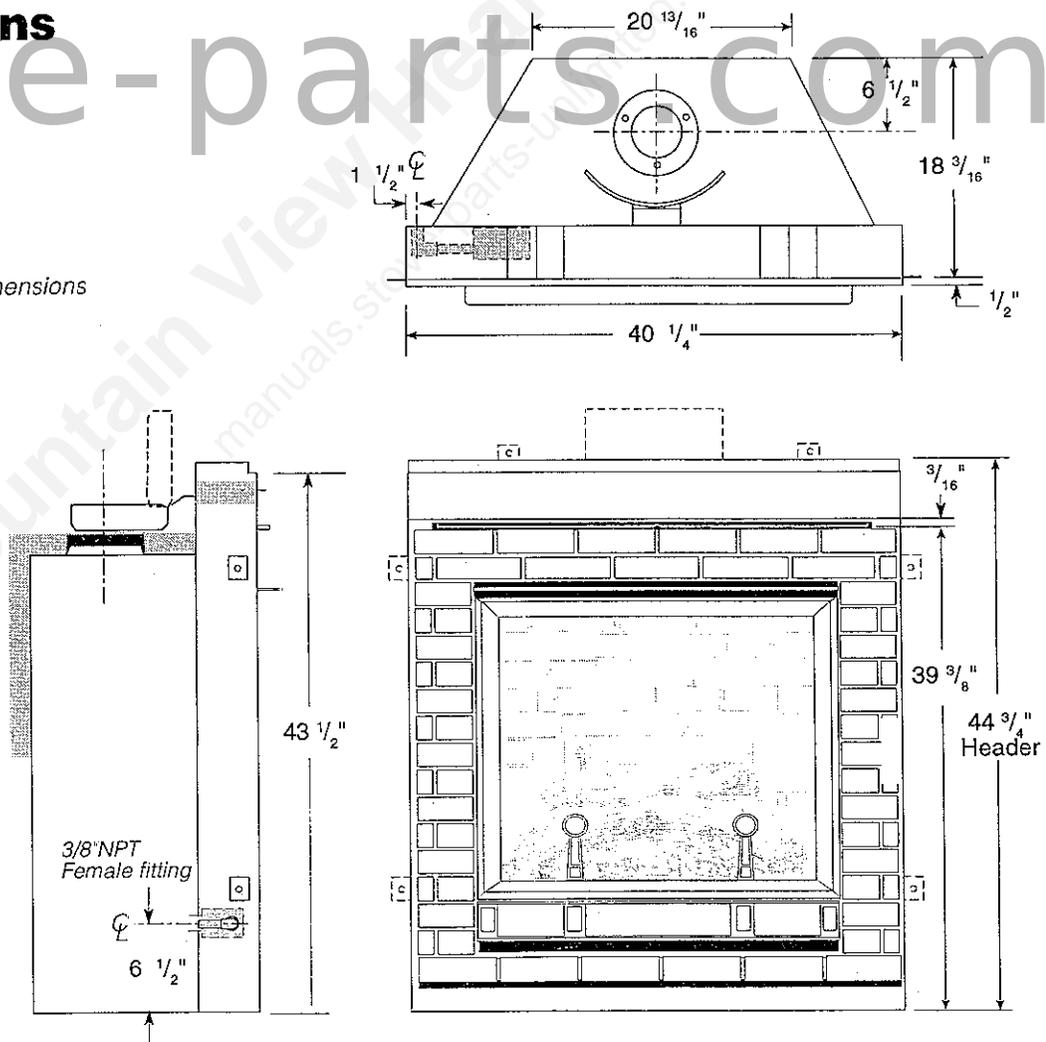
The DV40 Gas Fireplace may be installed in an aftermarket, permanently located, manufactured (mobile) home, where not prohibited by local codes.

\* Seasonal efficiency (NG - minimum vent, no fan)

† The heat output of this fireplace is a product thermal efficiency rating determined under continuous operating conditions. It was determined independently of any installed system.

## Dimensions

FIGURE 1. Critical Dimensions



Drawings not to scale

### INSTALLATION REQUIREMENTS

# General Information

## Precautions

The DV40 Direct Vent Gas Fireplace has been designed and tested to operate safely when installed according to the installation instructions contained in this manual. Read all instructions before starting the installation.

### WARNING

**If this fireplace is not properly installed, a house fire may result. For your safety, follow the installation instructions precisely.**

**It is imperative that you install the DV40 Gas Fireplace only with components listed and recognized for use with the fireplace. Use of alternative components may void the warranty and/or result in a hazardous condition.**

**Do not make modifications to any DV40 Gas Fireplace parts.**

**Use only the installation instructions provided by the manufacturer for this fireplace.**

**Consult local building codes.**

## Unpack the Fireplace

The DV40 Gas Fireplace is shipped assembled and ready for placement in the chase and connection to the venting.

Inspect the fireplace for shipping damage. Do not install the fireplace if there is any evident or suspected damage. Report damage to your dealer or distributor immediately.

The fireplace contains a parts bag containing these items:

- (1) pipe gasket
- (2) 1/4-20 x 3/4" phillips bolts, for andirons
- (2) 1/4" x 7/8" washers, for andirons
- (3) #10 x 1" phillips screws, for outer starter pipe
- (3) 1/4-20 x 3/8" phillips screws, for inner starter pipe
- (14) 1/4-20 x 1/2" phillips bolts, for glass

And in the firebox, below the logset:

- (2) Andirons

The tube on top of the fireplace contains the glass trim molding and its hardware.

## Advance Planning

Plan the installation to include the following procedures:

- 1 Fireplace and vent placement, observing the clearance requirements
- 2 Wall or Chase framing
- 3 Gas line plumbing power and thermostat connections
- 4 Hearth and surround finish / mantel installation

There must be sufficient strength in the dwelling's floor structure to support the weight of the fireplace (365 lbs ) vent system, and surround materials including hearth.

## Accessories

All mantel clearances and specifications noted in this manual apply to custom made or site-built mantels and surrounds. Consult your dealer about the prefabricated, accessory mantels that have been tested and approved for installation with the DV40 Fireplace. These mantels, listed below, conform to the clearance requirements specified on page 7 in this manual.

### Optional Mantels:

- |                                  |                     |
|----------------------------------|---------------------|
| #2054 Mantel, White              | #2055 Shelf, White  |
| #2056 Mantel, Oak                | #2057 Shelf, Oak    |
| #2076 Mantel, Cherry             | #2077 Shelf, Cherry |
| #2058 Premium Mantel, White only |                     |

### Optional Fan Kit #2059

The #2059 optional 270-cfm fan drives a stream of room air around the firebox, sending heated air into the room. *Any hard wiring necessary to connect the fan kit to the house circuitry must be completed before the fireplace is enclosed within the walls.* You should wire the fireplace even if you do not immediately plan to install a fan. Run the wiring to the right side of the fireplace enclosure as described on page 13. The fan uses standard 110-volt current.

### Optional Remote Control or thermostat

The DV40 fireplace can be wired to any standard 500-millivolt wall thermostat *or* to a model #2229 remote control. See page 17.

### Other Options

- #2060, Gold Glass Trim Molding set - replaces the standard black unit
- #2078, Red Touch-up Paint

# Installation Requirements

The installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1, latest edition

In Canada, installation must be in accordance with the current CAN 1 B1-149.1 and 2 Installation Codes and/or local codes.

To assure a safe and effective installation, only a qualified service person who is familiar with the building codes and installation techniques appropriate to your area should do the work

## Chase Clearance Requirements

A chase is a vertical structure enclosing the fireplace and venting system. Construct and insulate it as you would any outside wall. Standard venting precautions apply; avoid overhead obstructions such as trees, power lines, etc. See page 9 for specific vent clearance requirements. In cold climates, additional insulation having a noncombustible face can be installed between the fireplace floor and the base of the chase.

The fireplace and venting system must be totally enclosed when installed in or passing through areas where combustible materials or people may come into contact with them. There must be open air spaces between the fireplace cabinet and combustible surfaces. Enclose insulation with rigid material so that it cannot touch the fireplace. The venting components require a minimum of 2" (51mm) air space to combustible material.

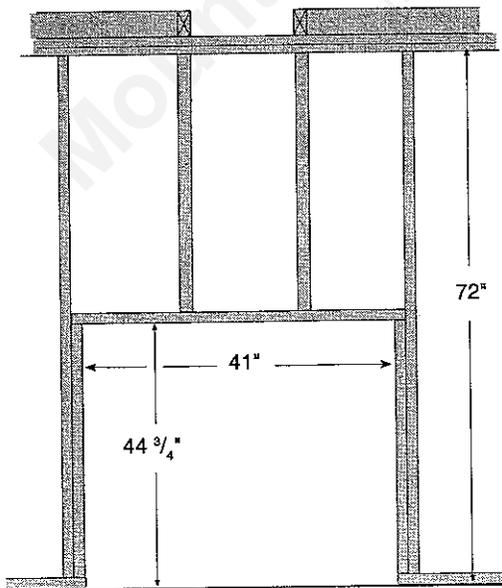


FIGURE 2. Chase framing, front

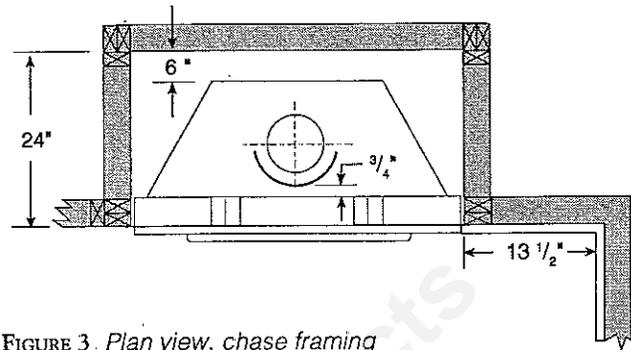


FIGURE 3. Plan view, chase framing

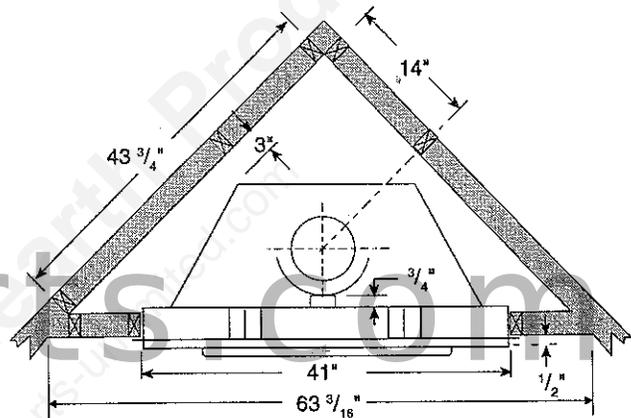
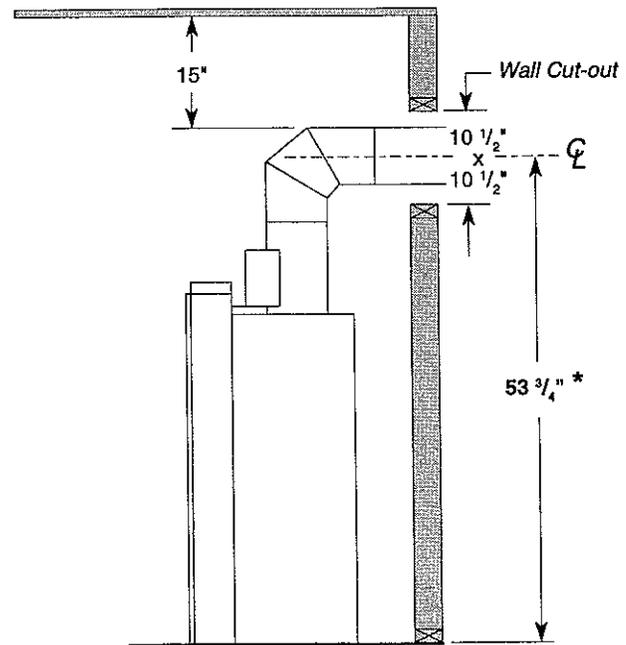


FIGURE 4. Corner chase framing



\* With use of a #5074 Minimum Vent Kit.

FIGURE 5. Vent clearance to combustible framing members within the chase

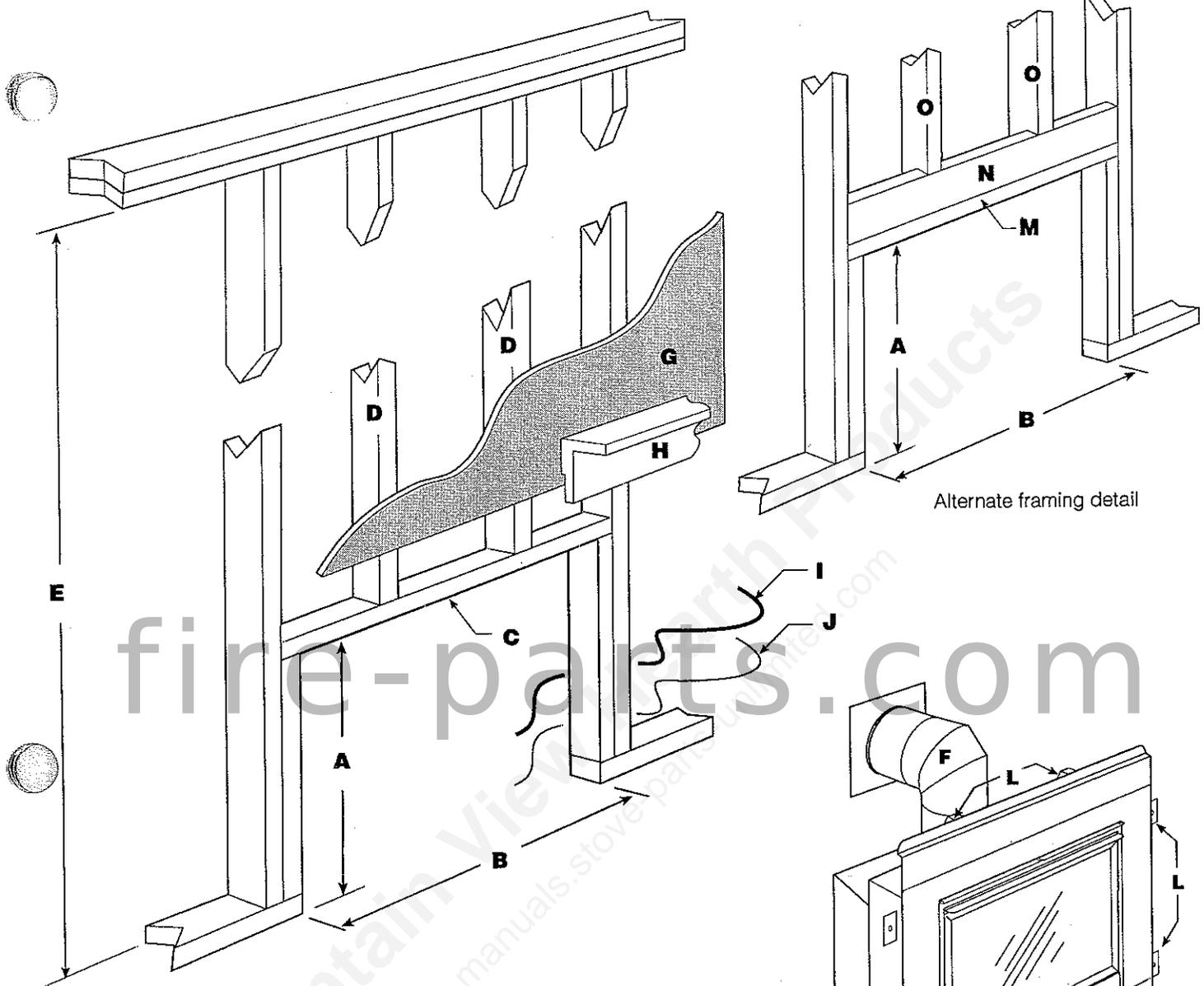


FIGURE 6. Face Wall construction.

- A.** 44-3/4" (1137 mm)
- B.** 41" (1045 mm)
- C.** 2x4 or 2x6 (maximum) header
- D.** Cripple studs; to maintain vent clearances, do not center studs in bay
- E.** Minimum chase height 72" (1829 mm)
- F.** 6-5/8" DuraVent® pipe
- G.** 1/2" (13 mm) drywall
- H.** Mantel and trim: see page 7
- I.** 110-volt electric supply, for optional fan
- J.** Millivolt thermostat wire
- K.** Gas supply line: see page 15
- L.** Nailing flanges
- M.** 2x4 or 2x6 (maximum) header laid flat
- N.** Single 2x10 on edge
- O.** Notched 2x4 or 2x6 cripple studs; to maintain vent clearances, do not center studs in bay

## Fireplace Location

When planning the fireplace location, it is important to consider heat circulation, appearance, venting obstructions and clearances to side walls. Careful planning is critical to a safe and economical installation process. A slight adjustment of only a few inches can save much time and expense later.

1. There must be sufficient strength to support the 365 pound weight of the fireplace. Be sure that the total weight of these parts and related construction materials conforms to local building code specifications. Additional support may be needed.
2. This fireplace may be placed on a flat, securely placed, hard-surfaced combustible. There must be sufficient area to support the entire base of the fireplace. Do not install over carpet.
3. Combustible construction materials adjacent to the fireplace may require protection. See clearance information below.
4. A hearth in front of the fireplace is not required.

### WARNING

**Insulation or vapor barrier materials must be covered with rigid material (gypsum board, plywood, particle board, etc.) to prevent contact with the fireplace under any circumstances.**

**Do not pack or fill required air spaces with insulation or other material. Do not place any material in the designated air spaces.**

## Face Wall Requirements

When installed, the fireplace face will stand 1/2" out from the front framing. This will allow the surrounding 1/2" wall board to align flush with the fireplace face. Fig. 8

You may install combustible finished wall material that will rest on the sheet metal ledge adjacent to the header as shown in Fig. 9. Do not notch the wall material to fit below the ledge.

You may cover the 'brick' face with a **noncombustible** material, however, **do not block the lower air inlet or upper air outlet and cooling duct!**

## Combustible Mantel Clearances

Clearances for a combustible mantel or trim adjacent to the fireplace will vary depending on the depth of the material. See Figures 8 and 9 for details.

Combustible side trim may overlap the 'brick' (and the sheet metal cabinet sides) by 1/4" if there is a 1/4" air space between the brick and the trim. See Fig. 8.

Combustible mantel or trim above the fireplace opening may touch the sheet metal stop at the cooling duct located above the upper brick panel (G, Fig. 9).

**Do not block the air space!**

All of the available optional prefabricated mantels listed on page 3 conform to required clearance specifications when installed in accordance with the manufacturer's instructions.

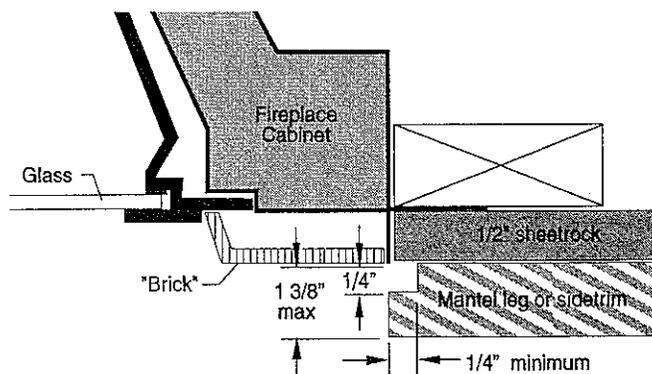
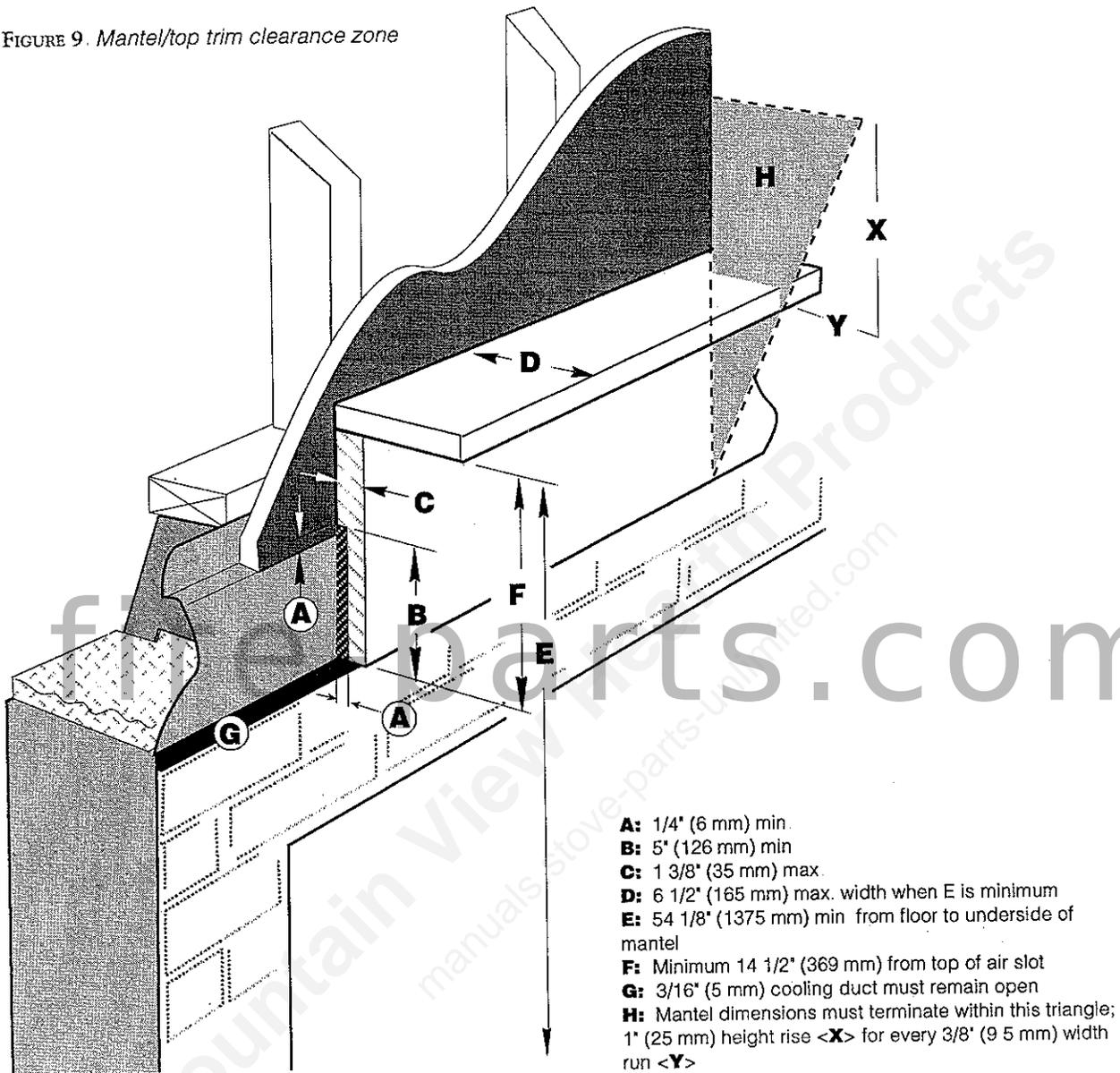


FIGURE 8. Side trim/cabinet clearance

FIGURE 9. Mantel/top trim clearance zone



## INSTALLATION REQUIREMENTS

## Venting Requirements and Options

The following components are approved for use with the DV40 fireplace in a vertical or horizontal configuration

MFG. NO.	COMPONENT	DURAVENT NO.
923V	Appliance adaptor	923V
990B	90° elbow, galvanized black	990 990B
945G	45° elbow, galvanized, black	945, 945B
908B	6" straight, black	908B
907B	9" straight, black	907B
906G	12" straight, galvanized, black	906 906B
904G	24" straight, galvanized, black	904 904B
903G	36" straight galvanized black	903, 903B
N/A	48" straight, galvanized, black	902, 902B
911B	11' - 14 5/8" straight	911B
984B	Horizontal vent cap	984
982B	Snorkel termination - 14"	982
981B	Snorkel termination - 36"	981
940B	Wall thimble/ceiling support box	940
950B	Vinyl siding standoff	950
*5074	Minimum horizontal vent kit	N/A
988G	Wall strap	988
941B	Cathedral ceiling support box	941
953G	Storm collar	953
963G	Firestop spacer	963
943G	Flashing 0/12-6/12	943
943S	Flashing 6/12-12/12	943S
991G	Vertical termination cap	991

\*includes: 923V, 911B 963G, 984B, 990B

All straight vent pipe sections have a net length 1-1/2" less than the nominal dimension; i.e., a 6" straight pipe section has an effective length of 4-1/2".

### WARNING

**Maintain all vent clearances. Check your vent clearances against the specifications in Fig 10.**

**Locate the vent so that people cannot be burned by accidentally touching the vent surfaces when the fireplace is operating.**

**Locate the vent terminations where automobile doors, lawnmowers, or snowblowers can't damage it. Locate the termination away from areas where snow or leaves might cause obstructions.**

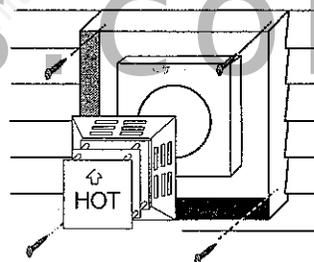
## Vent Clearances

When planning your installation, the location of the vent terminal and clearances must be considered. See Fig. 10

Some considerations are:

- Barriers or obstacles to venting
- Nearby combustibles materials that could come into contact with combustion exhaust gases
- Other nearby openings (within 9") through which exhaust gas could re-enter the building
- All vegetation within 3' that may interfere with the draft.
- Vinyl siding requires protection from vented heat directly above the vent opening. Use the Vinyl Siding Heat Shield Kit #950

Other factors that influence the siting of the installation include the location of outside walls, those rooms where additional heat may be desired in the home, where the family members gather most regularly, and perhaps most importantly, the distance limitations of the venting system



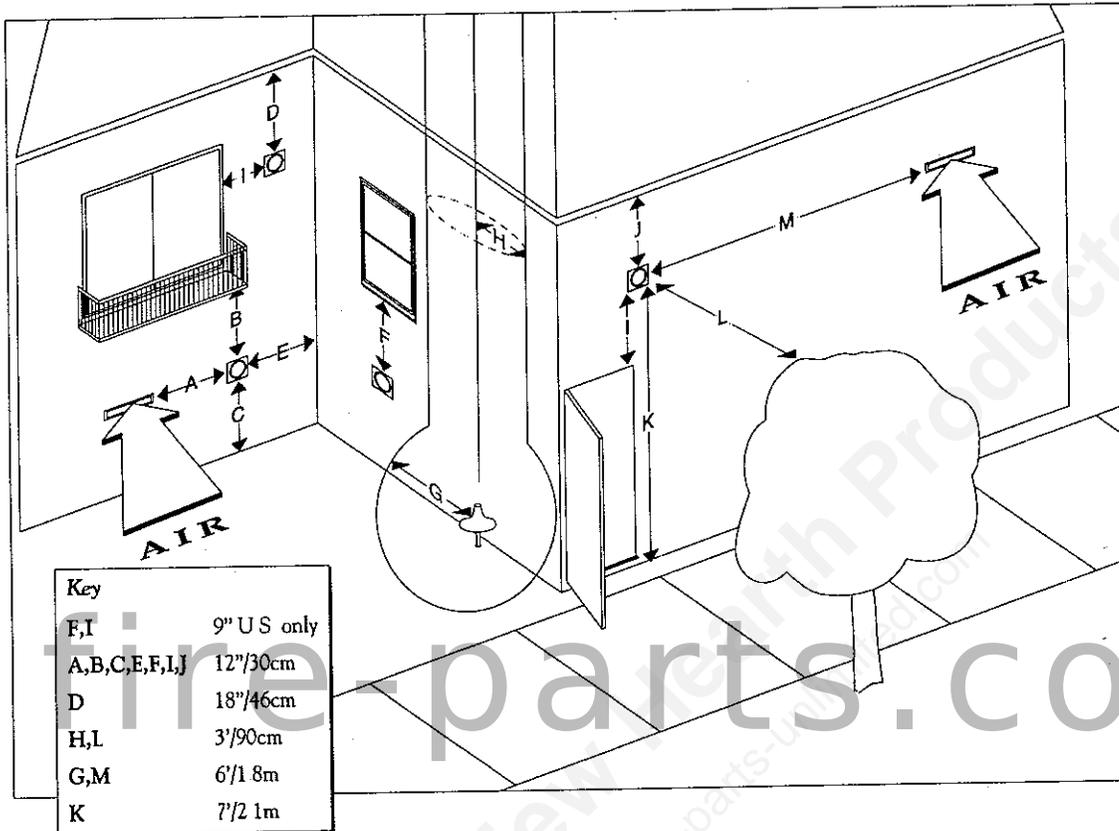
*Positioning the optional vinyl siding shield.*

### WARNING

**Always maintain required clearances to nearby combustibles in order to prevent fire hazard. Do not fill the air spaces with insulation. All venting components must maintain a 2" (51mm) clearance to combustible materials, except for ceilings, as noted in Figure 5.**

**The gas appliance and vent system must be vented directly to the outside of the building. Never attach them to a chimney serving a separate appliance. Each direct vent appliance must use its own separate vent system. Common vents are prohibited.**

FIGURE 10. Minimum Clearances to Common Outdoor Fixtures



- A Clearance to a non-mechanical air supply inlet or combustion air inlet of any other appliance
- B Clearance under a deck, porch, veranda or balcony. Must be fully open on a minimum of two sides beneath the floor
- C Clearance above grade, deck, porch, veranda or balcony
- D Clearance to a ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center line of the terminal.
- E Clearance to an adjacent wall (inside corner).
- F Clearance to a permanently closed window.
- G Clearance around a service regulator vent outlet
- H Clearance around a center line above service regulator.
- I Clearance to a door or window that may be opened.
- J Clearance to a non-ventilated soffit.
- K Clearance above a paved sidewalk or driveway on public property. May not terminate above a sidewalk or driveway which is between two single-family dwellings and serves both dwellings
- L Clearance to vegetation.
- M Clearance to a mechanical air supply.

Note: All clearances as specified in the National Fuel Gas Code, 1992 and CAN 1 B1-149 Installation Codes.  
Local codes or regulations may require more stringent clearances

## Venting Configurations

Make certain that the vent installation meets the requirements as detailed in Figs 11 and 12 **In no case may the vent system exceed 25' vertically or 16' horizontally.**

1. For every 12" horizontal run beyond the first 18", there must be 6" additional vertical rise
2. One or two elbows are permitted within the shaded area indicated in Fig. 11. Additional elbows may be included if, a) you deduct 5' horizontal run for each additional elbow and, b) you open the burner air shutter 1/16" per elbow. A snorkel counts as two 90° elbows.
3. Horizontal run is counted as a total through all elbows. The vent run may bend around corners as necessary, but the total horizontal run may not exceed the maximums shown in Fig. 11.
4. Horizontal runs must be level or rise 1/4" per foot. Excessive horizontal vent runs are very restrictive to efficient burner operation and can cause sooting problems.

### Air Shutter Settings

The burner air shutter is set at the factory for operation with the minimum horizontal vent configuration pictured at the bottom of Fig. 11. Air shutter settings appropriate for other vent configurations are noted in the boxes adjacent to the illustration. All dimensions indicate the shutter **opening**. See page 25 for shutter location and directions.

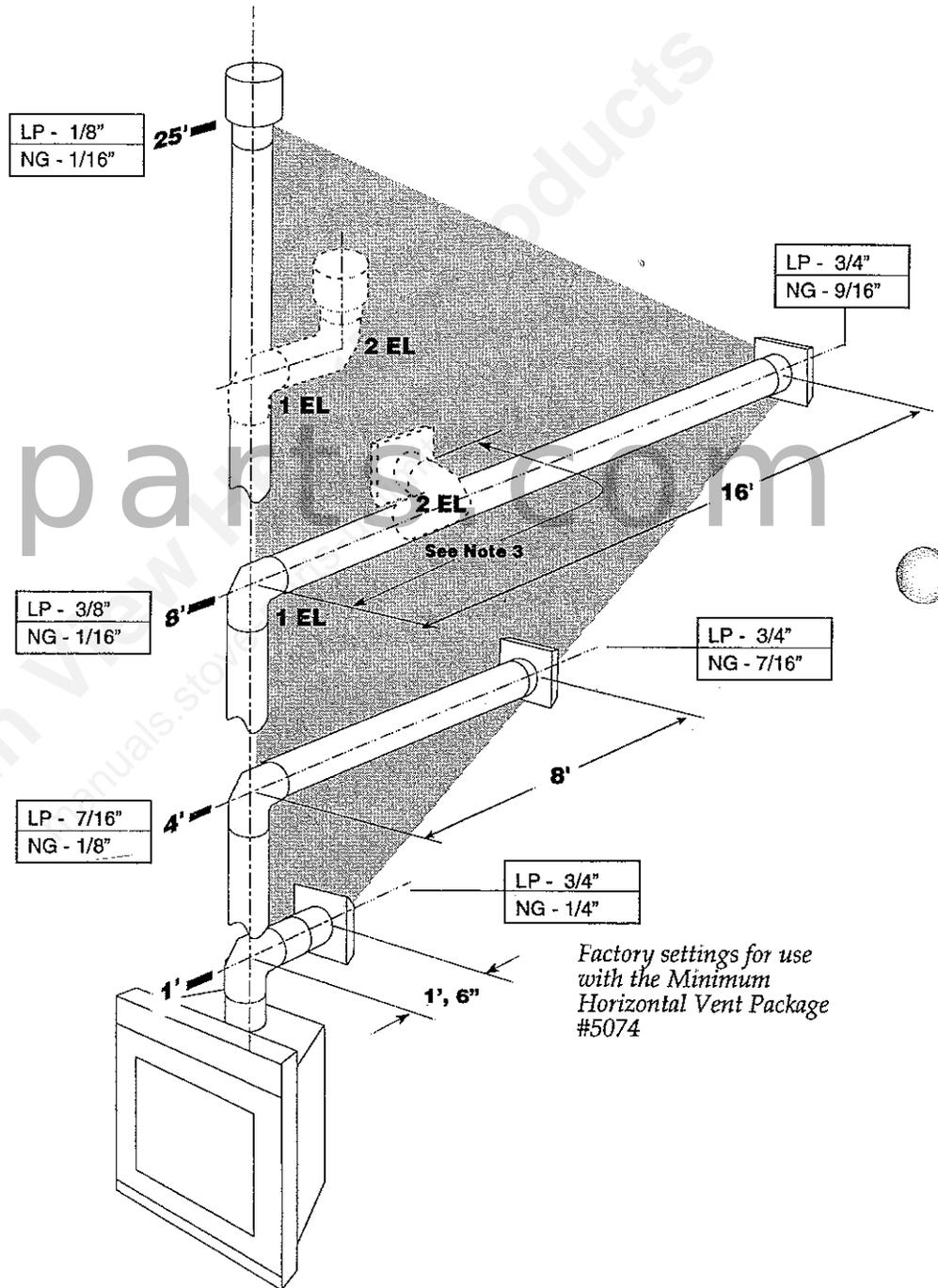


FIGURE 11. Maximum horizontal and vertical vent runs

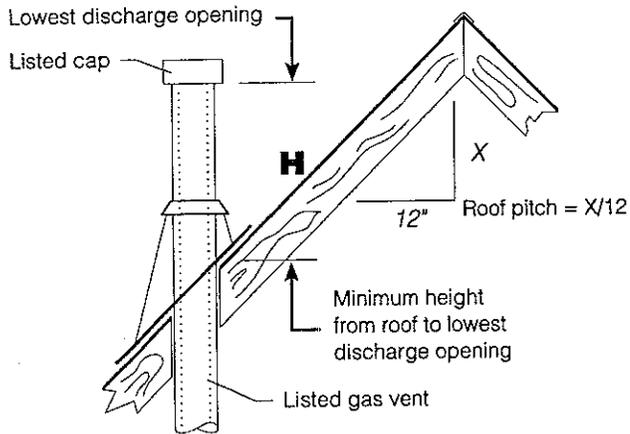


FIGURE 12. Vent (Chimney) Height

Vent/air intake termination clearances above the high side of an angled roof:

Roof Pitch	H in feet	H in Meters
Flat to 6/12	1 0	0 3
7/12 to 9/12	2 0	0 6
10/12 to 12/12	4 0	1 2
13/12 to 16/12	6 0	1 8
17/12 to 21/12	8 0	2 4

**IMPORTANT**

The horizontal termination must not be recessed into the exterior wall or sheathing. Cut away the siding to accept the vent cap (and vinyl siding shield, if used) and mount these directly to the sheathing; seal with non-hardening silicone.

If the structure is clad with vinyl siding, the installation must include a vinyl siding shield, #950B. This adds roughly 2" to the length of the horizontal venting run.

Horizontal vent runs must be level or rise 1/4" per foot toward the vent termination.

Clearances around the vent termination must be maintained. See Fig.10 for details.

# Installation

## Venting Terminus and Wall Pass-through

1. Determine the centerline of the wall cutout. Measure A from the base of the fireplace to the centerline of the elbow. See Figs. 5 and 18. Be certain that the location of the cutout conforms to the clearance requirements specified on pages 9 and 10.
2. Make the opening: cut out and frame in a 10 1/2" x 10 1/2" hole in the wall, centered on dimension A. Figure 18. Make sure that the interior and exterior cutouts are level with each other.
3. Cut away the external siding to expose the sheathing. Center the siding cutout on the wall pass-through. The siding cutout must be large enough to accept either the standard venting cap, the cap and a vinyl siding shield, or a snorkel cap. Position the vent cap, with its arrow pointing up, within the opening on the outside wall. Secure it temporarily with two of the wood screws provided with the cap.
4. Insert the adjustable slip pipe that will connect the wall terminus and the fireplace elbow. Drill pilot holes in the protruding straps and secure the straps to the horizontal pipe with sheet metal screws. Trim excess from the straps. Figure 13.

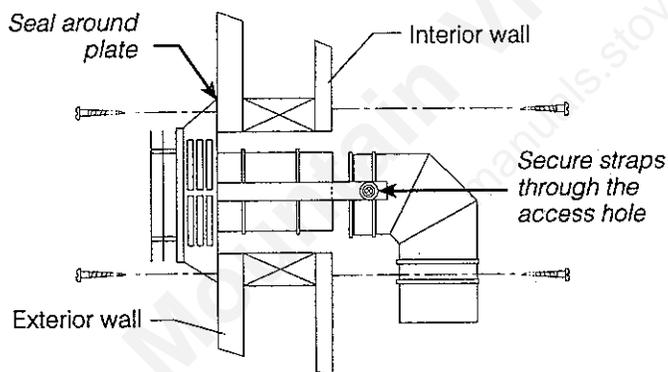


FIGURE 13. Attach the adjustable slip pipe.

5. Seal the vent cap with a bead of non-hardening silicone around the outside edge. Secure the vent cap with the screws provided.

## Fireplace Position

1. Position the fireplace within the wall or chase frame construction or place the fireplace in its final location and construct the frame around it. Confirm that required clearances are maintained around the fireplace and vent system. Failure to do so could result in a fire, causing personal injury or death.

## 2. Fan / Thermostat Wiring

Even if you do not intend to install the optional fan kit at this time, we suggest that 110v house current be run to the fireplace so that a fan may easily be installed in the future. The connection is made at the junction box on the right side of the steel cabinet. Fig. 14. Electrical wiring should be performed only by a licensed electrician.

Wiring suitable for use with a standard 500 millivolt thermostat should also be installed at this time if appropriate. Follow the thermostat manufacturer's recommendations for the wire gauge appropriate to the length of run required. The thermostat wires can be run to the right side of the fireplace enclosure and through the fan wiring junction box for final connection to the appropriate terminals. See page 17, Fig. 30.

## Vent Connection

The DV40 Fireplace is approved for installation only with the venting components listed on Page 8. Use the following instructions along with those of the vent manufacturer to complete the installation.

1. Raise the vent heat shield into an upright position to allow access to the fireplace flue collar. Fig. 15.
2. Attach the adhesive-backed gasket (included in the parts bag) to the flat flange of the inner adaptor pipe. Fig. 16.
3. Attach the inner adaptor pipe to the fireplace with three 1/4-20 x 3/8" phillips head machine screws. Fig. 17.
4. Place the outer adaptor pipe in the flue collar. If necessary, insert and engage an elbow into the outer adaptor pipe and rotate the pipe assembly so that the opening of the elbow is facing in the correct direction for connection to the vent terminus. It must be perpendicular to the wall surface. Drill .14" (3.5 mm, or Size 28) pilot holes into the pipe through the three existing screw holes in the flue collar. Be careful not to drill through the inner adaptor pipe. Secure the outer adaptor with three #10 x 1" phillips head sheet metal screws which you will find in the parts bag. Figure 18.

Install the rest of the vent system according to the vent manufacturer's instructions.

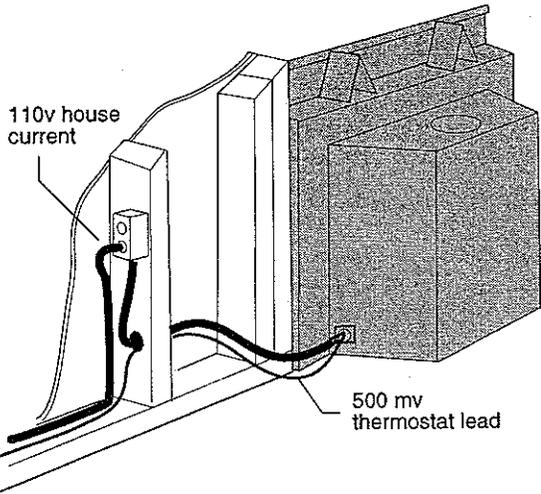


FIGURE 14. Power connection for optional fan and thermostat

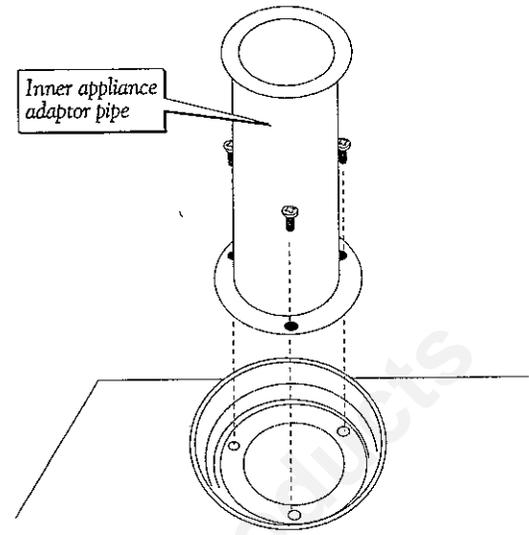


FIGURE 17. Attach inner adaptor to flue collar

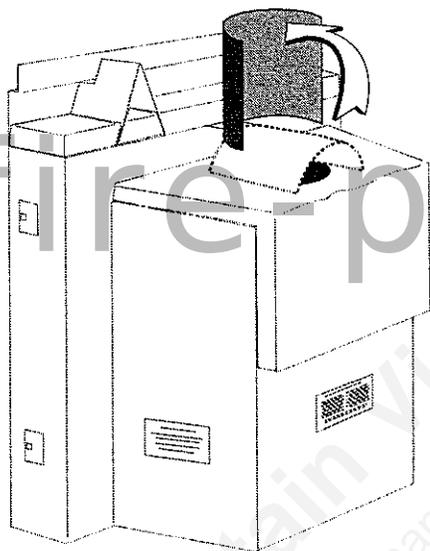


FIGURE 15. Raise header heatshield into position

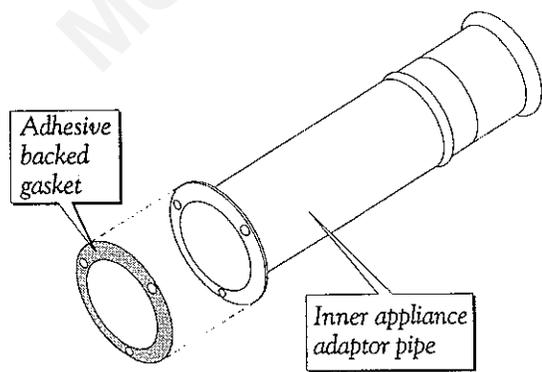


FIGURE 16. Attach gasket to inner adaptor

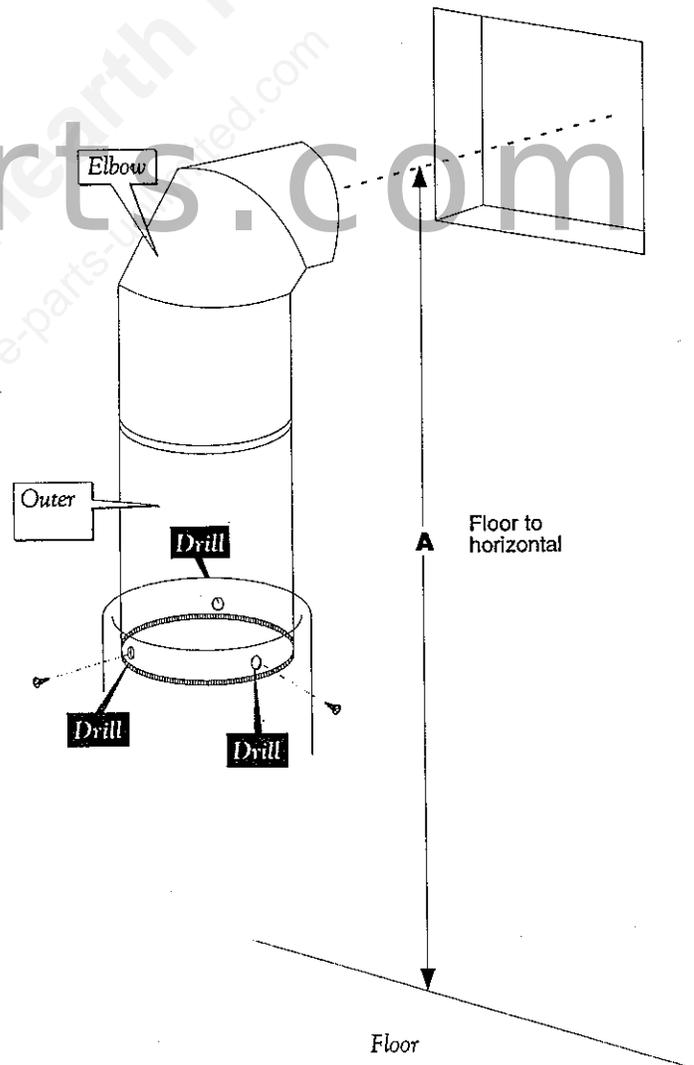


FIGURE 18. Drilling pilot holes and securing the outer adaptor

**INSTALLATION PROCEDURES**

## Remove the Glass Panel Assembly

The glass panel screen and steel frame are removed as a unit

1. Loosen, but do not remove, the six phillips head retainer screws Fig. 19
2. Push in firmly on the center of the glass to hold it in place and remove all but one of the upper screws
3. Be sure to support the glass while you remove the last screw. Allow the glass/frame assembly to rest on the lower ledge, then lift the entire unit off of the fireplace and lay aside

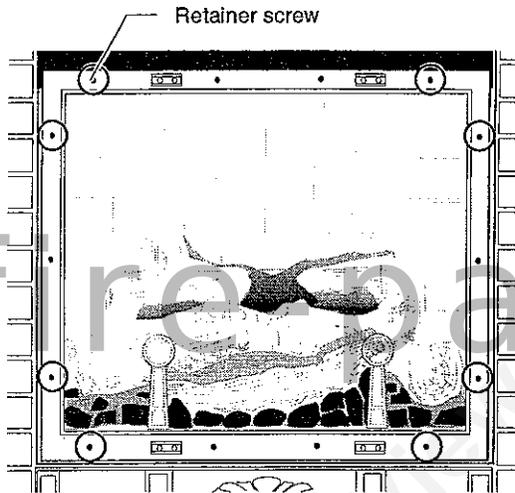


FIGURE 19. Loosen and then remove the frame retainer screws

## Unpack the Log Set

1. Remove the packing material from around the log set. Grasp the log set firmly in two hands and pull it up and away from the firebox, raising the left side first. **Do not use the small center log as a handle;** it is not designed to support the weight of the lower logs and may be damaged if mishandled. Should the log set become damaged in this way, the fireplace will not operate correctly. See Fig. 20
2. Remove the ember strip and set it aside for now. Fig. 20

## Adjust the Burner Air Shutter

Any air shutter adjustments necessitated by a particular vent configuration must be made before the log set is installed. The air shutter is easily accessible at this time. See Figs. 47 and 48 in the Maintenance section, page 25

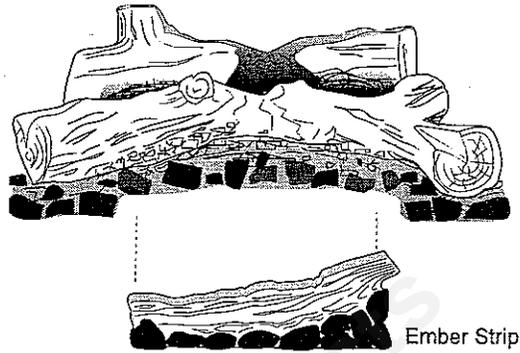


FIGURE 20. The log set and ember strip

## Install the Log Set

1. Locate and remove the andiron screws at the front of the firebox floor. Secure the two andirons in place using these two screws. Fig. 21, A
2. Install the logs. Hold the logset firmly in two hands and place it in the firebox, putting the right end in first, then the left. If it is positioned correctly, the logset will sit firmly. Do not use the small center log as a handle; it could break off if mishandled.
3. Place the ember strip in the front of the fireplace, between the andirons

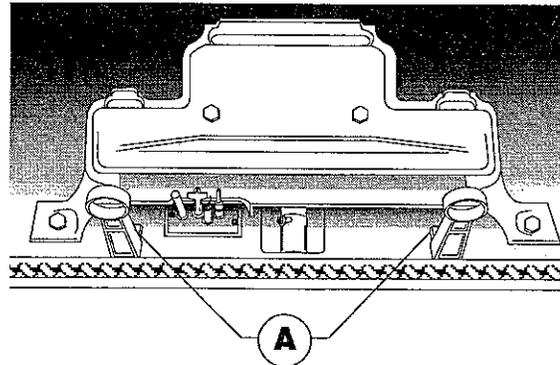


FIGURE 21. Install the andirons

4. Use 14 screws from the parts bag to replace the glass panel/frame assembly. Lift the assembly into position on the front of the firebox. Insert all screws and turn them to finger tightness only. Shift the glass to ensure that it is all the way into the gasket recess. Tighten the screws, one turn at a time, following the alternating pattern designated in Fig. 22.

**Note:** Failure to use this alternating pattern in tightening the glass could result in cracked glass.

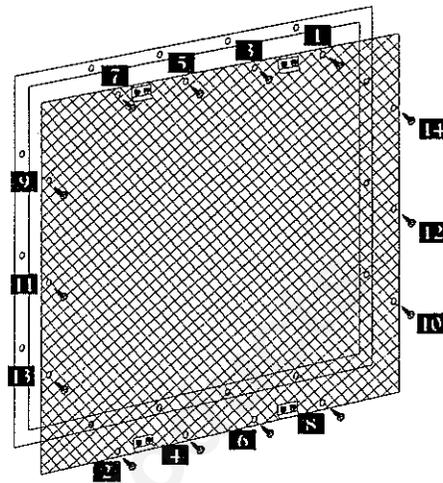


FIGURE 22. Frame tightening sequence

### Connect the Gas Supply

Examine the rating plate on the cable under the valve. Confirm that you have the burner appropriate to the type of fuel you will be using. You can convert a natural gas DV40 to propane with kit #2066; you can convert a propane DV40 to natural gas with kit #2065.

**Gas connection should be performed only by a licensed gas technician or other qualified person.**

#### NOTICE

The DV40 Fireplace and its individual shutoff valve must be disconnected from the gas supply during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa).

**You must isolate the DV40 Fireplace from the gas supply by closing the individual manual shutoff 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).**

1. The main gas supply inlet is behind the fireplace face on the left as you face the unit. Connect the female inlet pipe to a 3/8" NPT male connector. Figure 23. Install a 1/8-inch NPT plugged tapping, accessible for test gauge connection, on the inlet gas connection.
2. Test for leaks at all joints before operating.

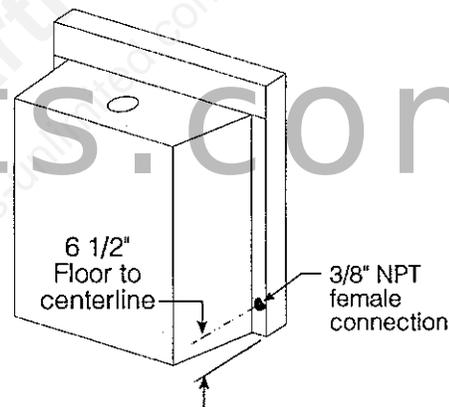


FIGURE 23. The gas connection on the left side of the DV40.

#### WARNING

**There must be a gas shutoff installed between the stove and the supply.**

With Natural Gas, use a 3/8" or 1/2" natural gas supply line with an input of 40,000 BTUs at a manifold pressure of 3.5" and minimum inlet supply for adjustment of 5.0" W.C.

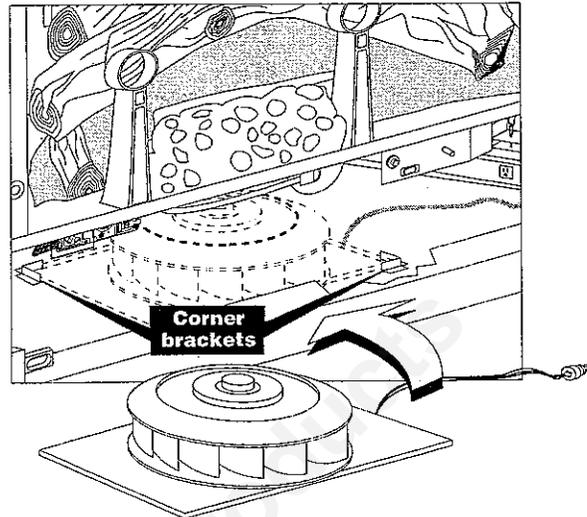
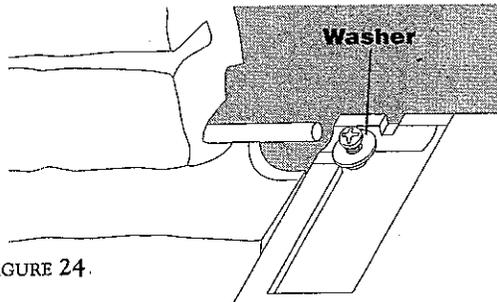
With Propane, use a 3/8" or 1/2" propane gas supply line with an input of 40,000 BTUs at a manifold pressure of 10.0" and minimum inlet supply for adjustment of 11.0" W.C.

Only a qualified gas service technician should connect the gas supply to this appliance. Follow all local codes.

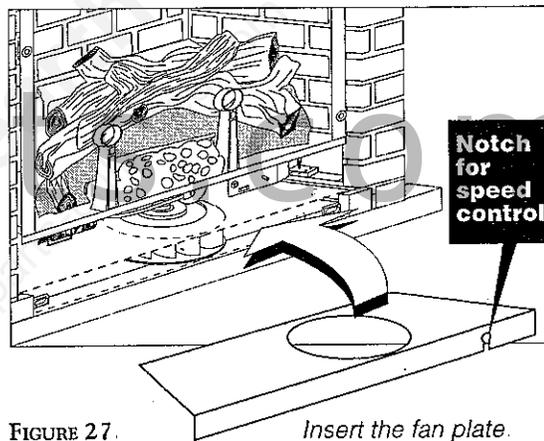
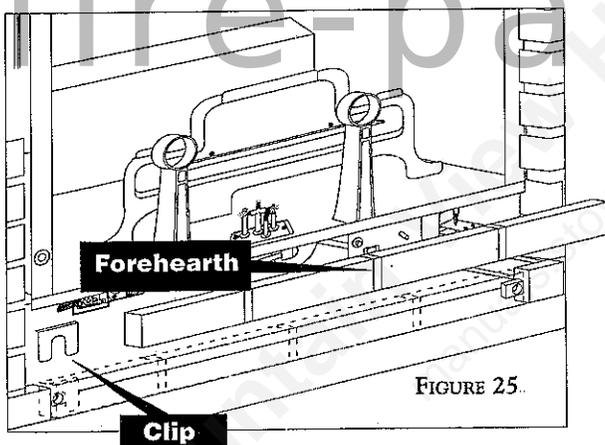
See page 26 for information regarding fuel conversion.

### Fan Kit Installation

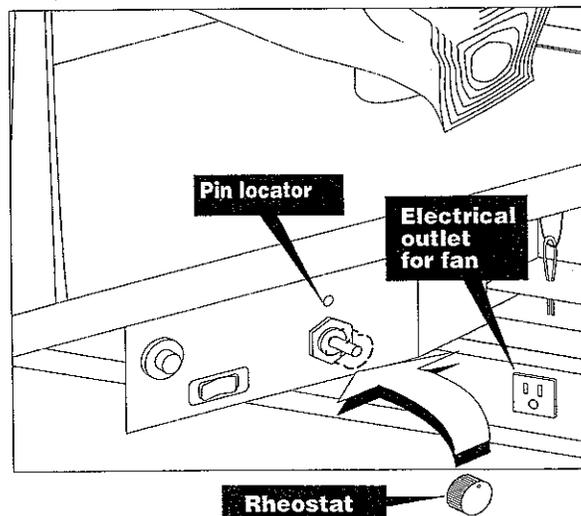
1. Remove the service door. Open the door and loosen, but do not remove, the phillips head screw at each end Figure 24. Pull the door toward you, allowing the washers to slide over the horizontal rods. Lift the door away and put it aside.



2. Remove the cast iron forehearth. Lift the two retaining clips, behind the forehearth and remove them. Wiggle the forehearth until it disengages from its brackets. Put it aside Figure 25.



3. Clean the bottom sheet metal panel, within the fan brackets, with rubbing alcohol. Place the fan on the base of the fireplace. It will fit in only one way. There are two small corner brackets that will keep it in place Figure 26. The notch for the electric cord should be on the right side of the base of the fan. Pull the plug end of the cord fully away from the notch and plug it in to the outlet on the lower right side of the fireplace. Allow the rheostat assembly to hang out of the front of the fireplace, at the bottom.
4. Slide the fan plate into the bottom of the fireplace, making certain that the hole is centered over the fan Figure 27.
5. Slide the cable up through the keyhole shaped notch in the front edge of the plate. Push the black retainer into the hole so that it feels secure. Figure 28.



### INSTALLATION PROCEDURES

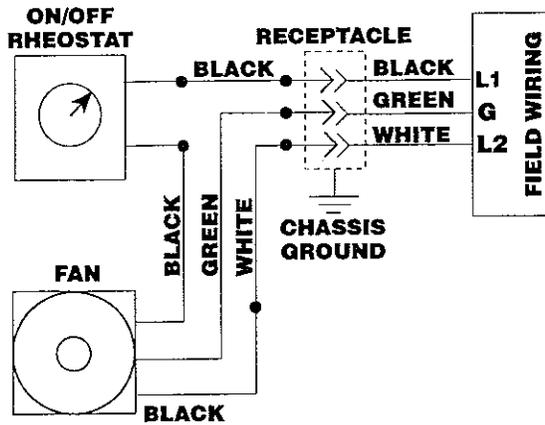


FIGURE 29. Fan wiring schematic diagram

6. Push the rheostat knob shaft through the larger hole in the switchplate, while making sure that the small plastic pin comes through the smaller hole directly over it. Push the hex nut onto the white plastic shaft. Turn it clockwise with a wrench until it's secure. Figure 28.
7. Push the rheostat knob securely onto the shaft. Figure 28.
8. Plug the fan's electrical cord into the outlet in the lower right of the fireplace. Figure 28.
9. Replace the forehearth. Push it on straight and secure it with the two retaining clips.
10. Reattach the service door. Slide it carefully so that the washers are over the rods. Tighten the screws and make sure that it hinges properly.

#### WARNING

THIS APPLIANCE IS EQUIPPED WITH A THREE PRONG OUTLET FOR YOUR PROTECTION AGAINST ELECTRICAL SHOCK. INSERT THE FAN PLUG DIRECTLY INTO THIS RECEPTACLE WHICH IS PROPERLY GROUNDED. DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THE PLUG.

## Thermostat Connection

You can wire the DV40 Fireplace to either a standard 500-millivolt wall thermostat or the optional remote control. For the remote control, refer to the directions that come with that kit.

The thermostat connection terminals are to the right of the ON/OFF rocker switch and the optional fan control. See Fig. 30.

Either wire can be connected to either terminal (A & B). Note in the table below the appropriate gauge thermostat wire to use for the length of lead in your installation or use those specified by the thermostat manufacturer. **Use only thermostats rated for 500 millivolts.**

Wire Gauge	Maximum Run
18	40 feet
20	25 feet
22	16 feet

Follow the thermostat maker's installation instructions. You can run the thermostat wires out through the junction-box opening; take care to protect them from crimping or binding. Keep the wires as low as possible in the base of the fireplace.

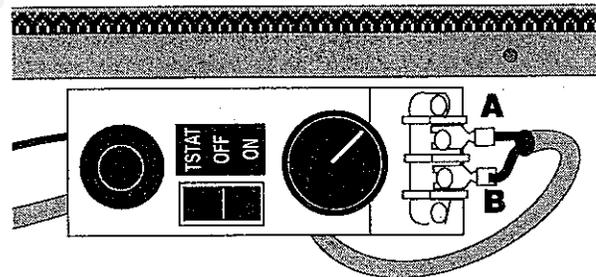


FIGURE 30. Thermostat Connection

### GlassTrim Molding Assembly

The glass trim molding assembly is shipped on top of the fireplace. Install it after you install the logset and the glass panel. Work on a flat, padded surface to protect the parts from scratching. The kit includes two short sections, two long sections, and four L-shaped brackets with screws.

- Put one of the L-shaped brackets into the center groove on a short molding section Fig 31. Be sure the slotted side of the screw faces up. Slide the bracket in as far as it will go. Tighten the screw.

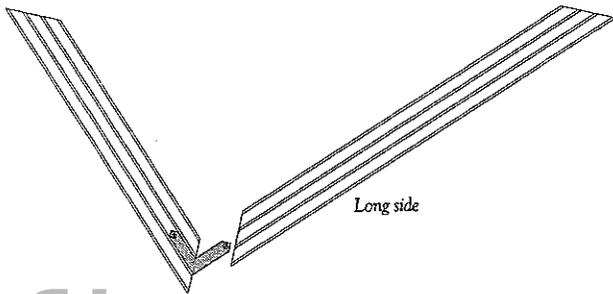


Figure 31.

- Take a long section of molding, engage it with the other side of the bracket, and tighten the screw.
- Repeat steps one and two with the other molding sections and a bracket.
- Use the two remaining brackets to assemble a complete molding set Fig 32. Be sure that all the screws are tight and that all corners are flush.

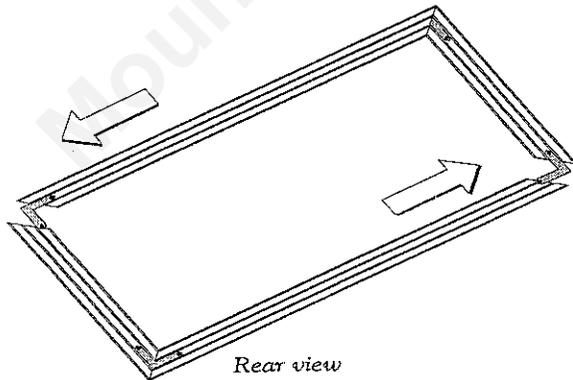


Figure 32.

- If the corners are not even or flush, loosen the screws and adjust as needed; then tighten the screws. Figs 33-35 show correct and incorrect alignment.

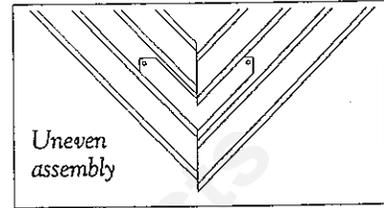


Figure 33.

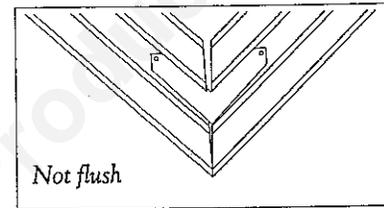


Figure 34.

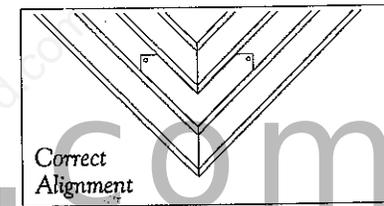


Figure 35.

- Install the molding set by gently pushing the upper part onto the upper clips on the fireplace screen. Then push the lower part of the assembly onto the lower clips. Be sure that the assembly snaps securely onto the mounting clips Fig 36.

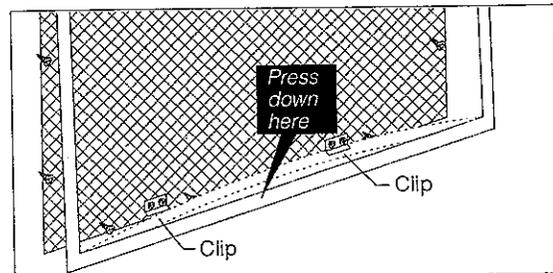
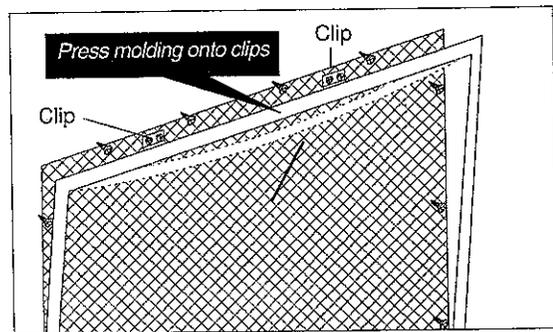


Figure 36. Glass trim molding assembly

### INSTALLATION PROCEDURES

# Operation

## Lighting the Fire

All operation controls are located behind the access panel at the front of the fireplace.

1. If there is a thermostat, turn it to its lowest setting.
2. If the pilot is already lit, proceed to "Relighting the Fire" below. Before you light the pilot, make sure that the valve is in the off position by pushing in the gas control knob slightly and turning it clockwise to **OFF**. Fig. 37. Set the Regulator knob to the HI position. Also, put the On/Off/T'stat remote switch in the **OFF** position. Fig. 38.
3. Smell for gas. Inspect the unit for any obvious sign of damage or deterioration. If it has received any damage, do not attempt to light the DV40.
4. Locate the pilot in the lower left front of the fireplace, behind the ember strip. Fig. 39.
5. Turn the knob on the gas control counterclockwise to **PILOT**.
6. Light the pilot by pushing the control knob all the way in and holding it there. Immediately push the red ignitor button; push it more than once, if required, to light the pilot. Continue to hold the control knob in for about one (1) minute after the pilot ignites. Release the knob and it will pop back out. Once the pilot has ignited, it should remain lit. It will produce a small but steady flame. If the pilot flame does not appear as in Fig. 39, turn the appliance off.
7. Turn the gas control knob counterclockwise to **ON**.
8. Place the On/Off/T'stat switch in the **ON** position and continue to watch the fire until the entire unit is lit. For thermostatic control, set your thermostat and then place the remote switch in the T'stat position.

### WARNING

If the entire fire does not light within five (5) seconds of turning the remote Off/On switch **ON**, immediately push the switch to **OFF**. Allow five (5) minutes for the gas to clear from the firebox. Return to **2** and repeat.

If you are still unsuccessful, completely turn off all gas to the fireplace. Contact your local dealer.

## 3-Way Switch Settings

**ON:** Continuous burning.

**OFF:** Gas is shut off.

**T'STAT:** Gas flow to burner is controlled by external thermostat setting.

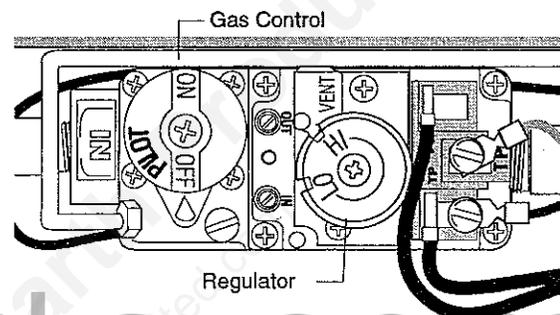


FIGURE 37. Control Valve

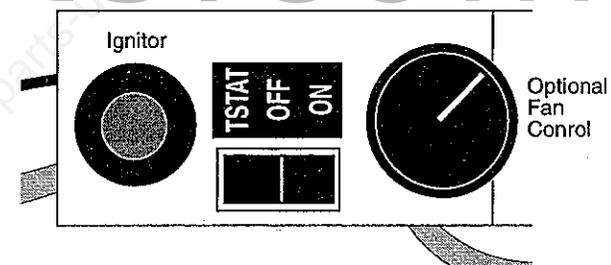


FIGURE 38. Piezo Ignitor and OFF/ON Switch

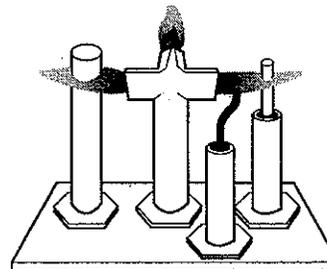


FIGURE 39. Pilot assembly with correct pilot flames

## The Regulator

The DV40 control valve incorporates a regulator that allows you to manually adjust burner heat output. The regulator should be set at HI when igniting the burner. See Fig. 37.

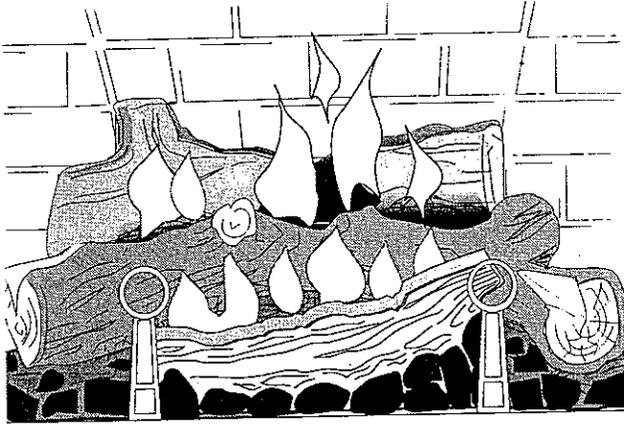


FIGURE 40. Correct main burner flame pattern

Confirm that the burner flame pattern appears as in Fig. 40. If it does not, turn the appliance off and contact your dealer to determine corrective action.

## Relighting the Fire

1. Check to see if the pilot is on
2. Turn on the remote rocker switch and watch to see that the entire burner lights

**NOTE:** If you do not intend to operate the fireplace for an extended period of time, turn **both** the gas control knob and the manual gas valve on the supply line to **OFF**.

## Turning Off the Fire

Simply push the remote rocker switch to **OFF**. The pilot will remain on. You can leave the pilot running (It costs very little to run.)

The fireplace *should not* make a 'popping' sound when you turn it off.

### WARNING

Do not attempt to decrease the gas flow to the fireplace by closing the manual gas supply valve. A hazardous condition may result when operating or attempting to operate the fireplace if this valve is in a position other than fully open.

# OPERATING INSTRUCTIONS

## WARNING:

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to the owner's information manual. Due to high surface temperatures, keep children, clothing and furniture away. Keep burner and control compartment clean. See installation and operating instructions accompanying appliance. Contact local building or fire officials about restrictions and installation inspection in your area. Do not install or use any component not specified for use with this product.

## CAUTION:

Hot while in operation. Do not touch. Keep children, clothing, furniture, gasoline, and other liquids having flammable vapors away. Do not operate this appliance with glass panel removed, cracked or broken. Replacement of the glass panel should be done by a licensed or qualified service person. Replace glass only with glass, part number 160-1710, from your DV40 dealer.

## FOR YOUR SAFETY, READ BEFORE OPERATING

- A** This appliance has a pilot. 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 gasses are heavier than air and will settle on the floor

### IF YOU SMELL GAS

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

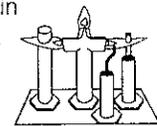
- If you cannot reach your gas supplier call the fire department
- C** Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire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

## LIGHTING INSTRUCTIONS

1. STOP! Read the safety information on the access door
  2. Turn thermostat to its lowest setting
  3. Turn off all electric power to the appliance
  4. Place the on/off switch in the off position
  5. Push in gas control knob slightly and turn clockwise  to "off"
- Note: Push knob in slightly to turn from "pilot" to "off". Do not force it
6. Wait five (5) minutes to clear out any gas. If you then smell gas, **STOP!** Follow "B" in the safety information on this label. If you don't smell gas, go to the next step
  7. Turn gas control knob counterclockwise  to "pilot"
  8. Find pilot. The pilot is located below the logset in the forward left corner area of the firebox. See illustration



9. Push in control knob all the way and hold in. Immediately light the pilot by pushing the red ignitor button. Continue to hold the control knob in for about one (1) minute 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 9. If knob does not pop up when released, stop and immediately call your service technician or gas supplier. If the pilot will not stay lit after several tries, turn the gas control knob to "off" and call your service technician or gas supplier
10. Turn gas control knob counterclockwise  to "on"
11. Place the on/off switch in the on position.
12. Turn on all electric power to the appliance



## TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to the lowest setting
2. Turn off all electric power to the appliance if service is to be performed
3. Push in gas control knob slightly and turn clockwise  to "off"

**NOTE:** Knob cannot be turned from "pilot" to "off" unless knob is pushed in slightly. Do not force it

Turn the gas control knob to "OFF" when the fireplace is not in use

# Maintenance

## Routine Procedures

Under normal circumstances, your DV40 Gas Fireplace will require little routine maintenance. The chimney system should be inspected at least twice a year and cleaned if necessary.

Inspect the burner valve compartment for cleanliness at least monthly. Wipe dirt accumulations away with a damp cloth.

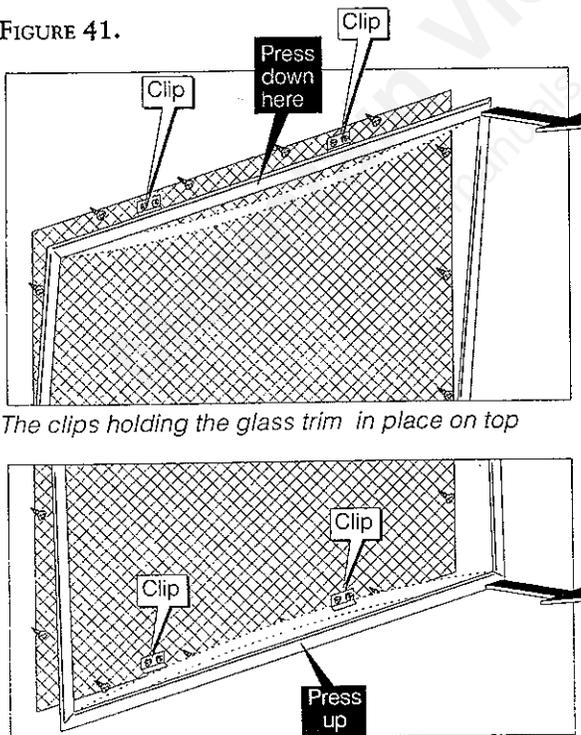
Wear gloves and protective eyewear when working on the fireplace. Allow it to cool completely before you begin any maintenance procedures.

## Glass

With continued use of the fireplace, a small amount of residue may build up on the glass. Let the fireplace and glass cool completely. Remove the screen/frame/glass/gasket assembly, as described in the next column. Use warm water or a cleaner made especially for cleaning glass. If you use a glass cleaner, follow the manufacturer's directions exactly.

**Caution:** Do not use any abrasive cleaner or material. Be sure the glass is dry and clear of any cleaner before you relight the fireplace.

FIGURE 41.



The clips holding the glass trim in place on top

and on the bottom

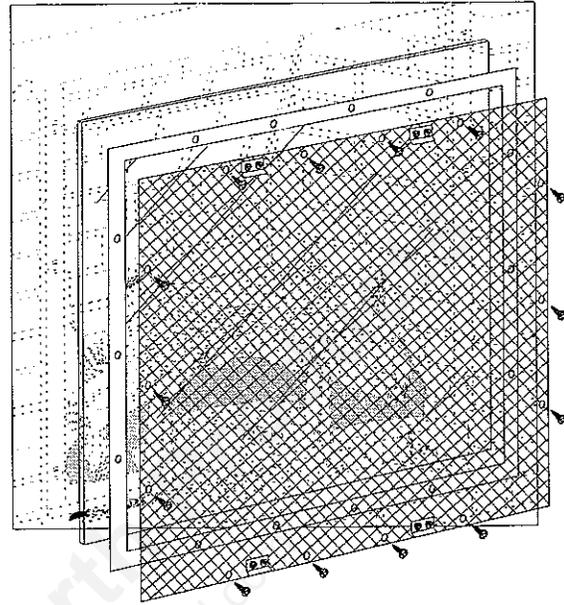


FIGURE 42. Removing the glass and frame.

## Annual Maintenance

Annual maintenance should include routine maintenance plus the following procedures which can best be done at the end of the heating season.

### Replacing the Glass Panels

1. Allow the fireplace to cool completely.
2. Remove the glass trim molding by gently deflecting the upper horizontal piece downward and outward. This will release it from its upper mounting clips. Then release the trim from its lower clips by pushing upward. This will expose the mounting screws. Figure 41.
3. Alternately loosen all of the Phillips head screws. Remove all but two upper screws. Figure 42.
4. Push in gently on the center of the glass as you remove the last screws.
5. Remove the glass/frame assembly as a unit by tilting it toward you, allowing it to lean on the lower ledge of the firebox. Lift it up and lay it aside.
6. Using a flat blade screwdriver, pry up the retainer tabs that hold the glass panel into the screen/frame assembly. Lift the glass and gasket clear of the frame.

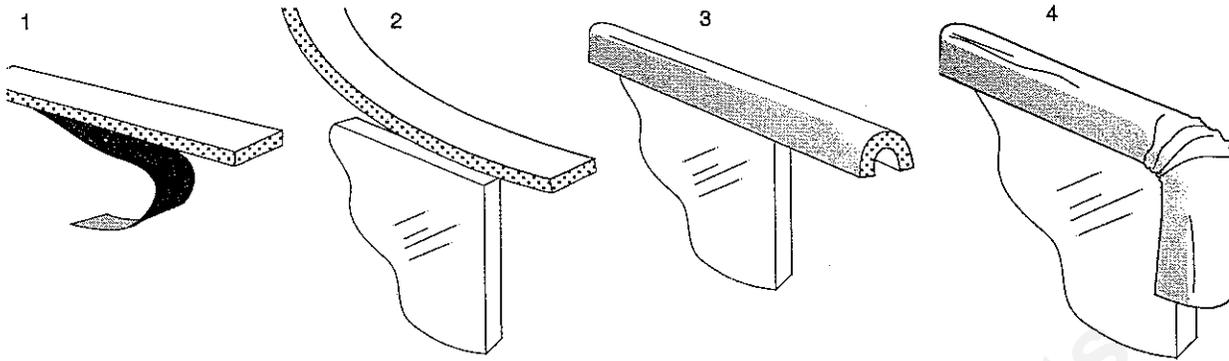


FIGURE 43. Install the gasket around the new glass.

Use only a replacement glass panel supplied by the manufacturer

**7.** Pull the old gasket from the edge of the glass panels. Strip the remainder of the firebox gasket from its channel in the firebox. Remove any gasket cement remaining in the gasket channel using a small chisel or an old screwdriver.

#### Replace in reverse order:

**8.** Use a new self-adhesive gasket for the glass panel. Remove the backing and wrap the gasket around the edge of the glass in a 'C' configuration. Figure 43. Put the glass into the back of the screen/frame assembly.

**9.** Bend the small metal tabs back over the gasket around the perimeter of the frame to secure the glass in place.

**10.** If you need to replace the firebox gasket, lay an unbroken 1/8" (3mm) bead of high-temperature gasket cement in the newly cleaned channel. Cut a piece of gasket that is 1"-2" longer than the channel. Place the gasket in the channel making sure that the joint is at the bottom center of the firebox. Excessive cement might bleed through the gasket and make it rigid.

**11.** Lift the glass/frame assembly into position on the front of the firebox. Insert all 14 screws and turn them only to finger tightness. Shift the glass to ensure that it is all the way into the gasket recess. Tighten the screws, a turn at a time, alternating across the frame. Figure 44.

**12.** Replace the molding trim by letting its top horizontal part hang on the top clips (mounted to the screen assembly); with the assembly hanging against the screen, press down the bottom horizontal part to engage it on the bottom clips.

#### Cleaning Cast Iron Surfaces

An occasional dusting with a dry rag will keep the painted surfaces of the DV40 looking new.

The paint can be touched up as needed. Clean the areas to be painted with a wire brush. Cover controls or trim with masking tape.

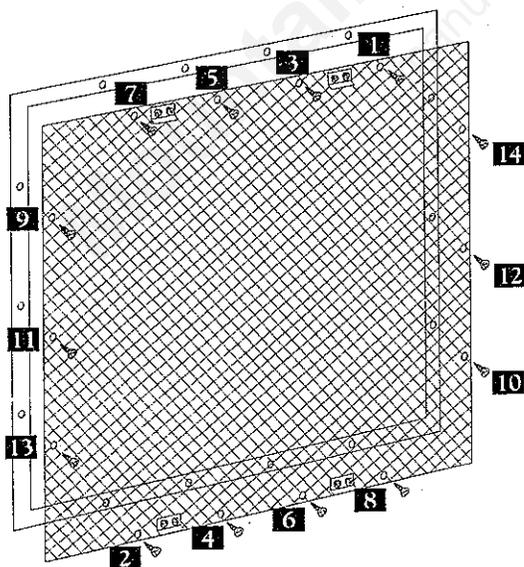


FIGURE 44. Tighten the screws in this sequence

## Clean the Log Assembly Annually

Before you begin, shut off the gas supply according to the directions on page 21. Allow the fireplace to cool. Spread newspapers or a drop cloth in front. The logset is fragile and must be handled carefully. Support it evenly while handling. Use a vacuum cleaner with a soft-bristled brush attachment to clean it.

1. Remove the screen/frame/glass/gasket assembly as described in the previous section.
2. Reach into the firebox and grasp the logset firmly in two hands. Pull it up and away from the firebox, raising the left side first. **Do not use the small center log as a handle; it could break off if not treated tenderly.**
3. Clean it carefully with a soft brush and vacuum.
4. Clean the burner by gently brushing the top surface.
5. Hold the logset firmly in two hands and place in the firebox putting the right end in first, then the left. If you position it correctly, the logset will sit firmly in place.
6. Place the ember strip in the front of the fireplace, between the andirons.
7. Replace the glass. Lift the glass/frame assembly into position on the front of the firebox. Insert all 14 screws and turn them to finger tightness. Shift the glass to ensure that it is all the way into the gasket recess. Tighten the screws, one turn at a time, alternating across the frame in the pattern indicated in Fig. 44, until all the screws are tight.

**Note:** failure to use this alternating pattern in tightening the glass could result in cracked glass.

## Inspect the Vent System Annually

A qualified technician should inspect the vent system be annually. Both the inner exhaust pipe and the outer combustion supply pipe must be checked to confirm that they are unobstructed and in good condition. Inspect for dust buildup, corrosion or any sign of deterioration or deposits. Refer to the vent manufacturer's instructions. Reassemble and seal venting components as required.

## The Safety Switch

The DV 40 Gas Fireplace is equipped with a safety switch which will render the appliance inoperable should a firebox overpressure condition occur. Figure 45. The switch is not an owner-serviceable component. If your fireplace will not operate, call your dealer. **DO NOT ATTEMPT TO RESET THE SAFETY SWITCH.**

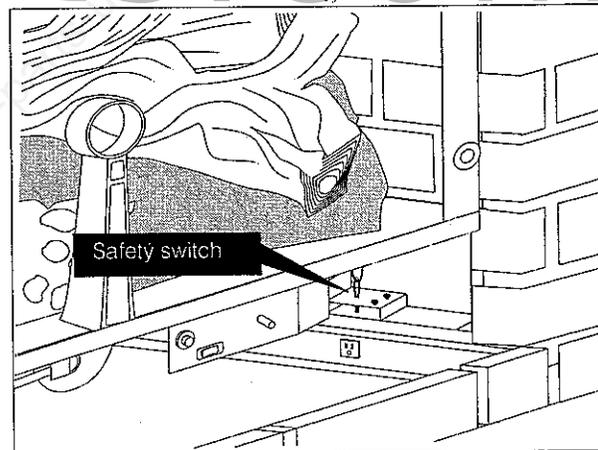


FIGURE 45. DV40 Safety switch

To ensure that your DV40 gas fireplace is operating properly, check the flames periodically. Confirm that they are consistent with the illustration below. The flames should be evenly distributed throughout the logset. The flames will be blue during the first few minutes, but should gradually change to yellow. Figure 46.

**Do not operate your DV40 if the flame pattern differs from that shown here.** Contact your dealer or a qualified gas technician for assistance.

## Burner Adjustment

An air shutter located on the burner has been set at the factory. Except for initial adaptation to specific vent configurations as shown in Fig 11, it should not require further adjustment. Installation characteristics vary, however, and adjustment may be necessary to improve the flame picture.

Generally the shutter should be set fully open, (A, Fig 48). Closing the shutter (B) lets in less air and produces a yellowish flame. Closing the shutter too much may result in a stringy orange flame; it may be prone to sooting. Opening the shutter lets in more air and results in a bluer flame. After a technician has adjusted the shutter, run the fireplace for at least one hour to determine the effect of the setting change. If soot appears on the glass, the air shutter must be opened to eliminate the condition.

**Only a qualified gas technician should make adjustments to the DV40 fireplace.**

1. Shut off the gas supply to the DV40. Turn off all power to the DV40. Remove the retainer screws, front panel, glass, logset and ember strip as described on pages 23 and 24.
2. Loosen the shutter locking screw enough to adjust the setting as needed and retighten. Figure 48.
3. Replace the logset, ember strip, glass and frame.
4. Operate the burner for 30-60 minutes to confirm desired performance.

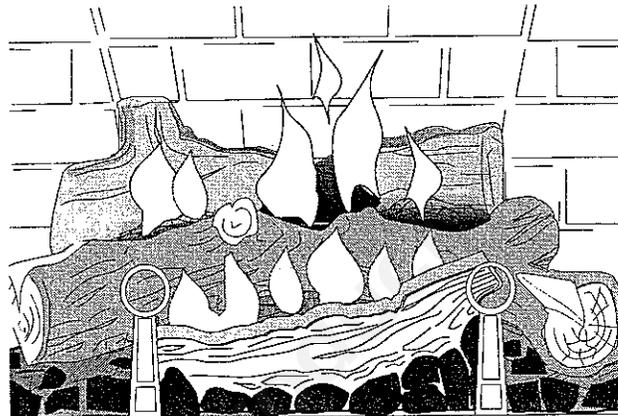


Figure 46. DV40 flame appearance

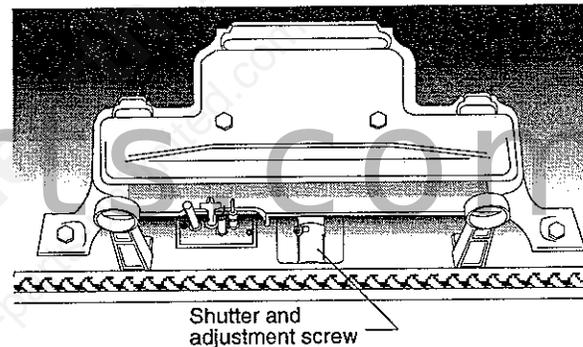


Figure 47. Air shutter location

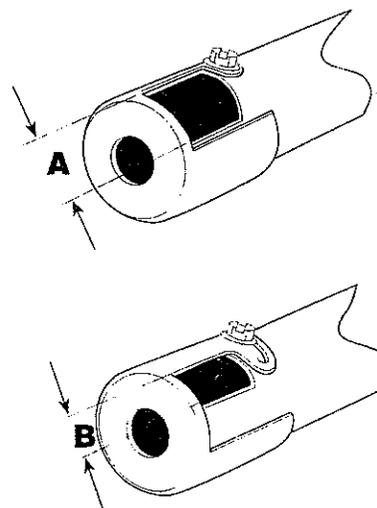


Figure 48. Air shutter settings

# Appendix

## Fuel Conversion

The DV 40 Gas Fireplace **2051** is shipped configured to burn only natural gas

The DV 40 Gas Fireplace **2052** is shipped configured to burn only propane.

The label on the front of the fireplace indicates which fuel to burn with your appliance. If it is necessary to convert any fireplace to use the alternative fuel, it should be done at this time, **before you connect the gas line**. Only a qualified service agency should make the conversion.

To convert from natural gas to propane, use only the LP Conversion Kit, # 2066.

To convert from propane to natural gas, use only the NG Conversion Kit, # 2065

## DV40 Wiring Diagram

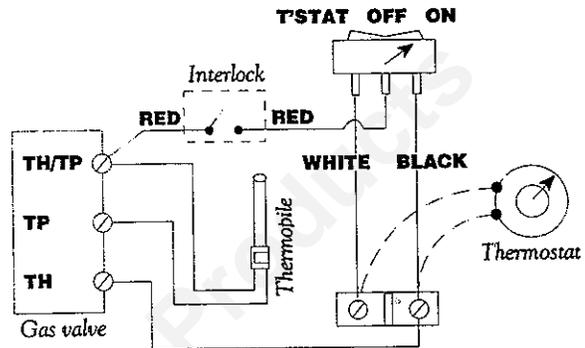


FIGURE 49. DV40 Fireplace circuit

### WARNING

Only a qualified service agency may install the conversion kit. The installation must be in accordance with the manufacturer's instructions and with all applicable codes and requirements of the authority which has jurisdiction. If the information in the instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result, causing property damage, personal injury or loss of life. The qualified service agency which performs this work assumes responsibility for the proper conversion of this appliance with the appropriate kit.

### NOTE

If it is necessary to replace any of the original wire, as supplied with this fireplace, you must replace it with SF-2, 200°C wire, or its equivalent.

# DV40 Parts List

1	Bottom Assembly, NG	500-2986
1	Bottom Assembly, LP	500-2987
2	Fiberfrax Pilot Gasket	120-3685
3	Piezo Ignitor	160-1304
4	3/8" NPT x 5/16" Compression Elbow	160-1307
5	Pilot Assembly, NG	160-1587
	Pilot Assembly, LP	<i>Pilot Asy.</i> 160-1587 & 160-1304
6	On/Off Switch	160-1597
7	Gas Valve Bracket	140-8911
8	Piezo/Switch Bracket	140-8912
9	Gas Valve, NG	160-1700
	Gas Valve, LP	160-1701
10	Inlet Tube	160-1704
11	Bray Injector, NG	160-1706
	Bray Injector, LP	160-1707
12	Firebox Bottom	130-0944
13	Burner	130-0958
14	Top Burner	130-0959
15	J-tube Clamp	130-0960
16	Pilot Supply Tubing, 1/4" diameter	160-1708
17	Main Supply Tubing, 5/16" diameter	160-1709
18	Fiberglass Gasket, 5/16" Armaséal	120-3668
19	Fiberglass HE Door Gasket	120-3691
20	Air Inlet Tubes	140-8890
21	4" Hose Clamp	120-3397
22	Inlet Baffle	140-8962
23	Firebox Top	130-0943
24	Fireback	130-0979
25	Left Firebox Side	130-0946
26	Right Firebox Side	130-0947
27	Heat Exchanger Door	130-0948
28	Flue Collar	130-0949
29	Exhaust Baffle	130-0950
30	Andirons (2)	130-0951
31	3/4" Window Gasket	700-0909
32	Ceramic Glass	160-1710
33	Glass/Screen/Frame Assembly	500-2978
34	Glass Trim Molding Set	500-2988
35	Gas Log Assembly	500-3003
36	Reset Switch Assembly	500-2994
37	Control Door Pin	120-1840
38	Forehearth Retainer	140-8900
39	Trim Rod	160-1760
40	Left Surround	130-0952
41	Right Surround	130-0953
42	Left Lintel	130-0981
43	Right Lintel	130-0982
44	Control Door	130-0956
45	Forehearth	130-0957
46	Fuel Conversion Kit, LP	000-2066
47	Fuel Conversion Kit, NG	000-2065

For replacement parts or for information about service contact your local dealer. For the name of the nearest dealer contact:]

The Majestic Products Co  
1000 E Market St  
Huntington IN 46750-2579  
(219) 356-8000

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